

# ELECTROMAGNETIC EMISSIONS CO-LOCATION RADIO TEST REPORT



**Applicant:** LITE-ON TECHNOLOGY CORP.  
Bldg. C, 90, Chien 1 Rd., Chung-Ho, 23585 New Taipei City,  
Taiwan

**Manufacturer:** Barco NV  
President Kennedypark 35, 8500 Kortrijk, Belgium

**Product Name:** Wi-Fi 6E BT 5.2 M.2 2230 Module

**Brand Name:** LITEON

**Model No.:** WCBN814A

**Model Difference:** N/A

**Report Number:** TERF2208001578E2

**FCC ID** PPQ-WCBN814A

**Issue Date:** November 17, 2022

**Date of Test:** October 07, 2022 ~ October 19, 2022

**Date of EUT Received:** August 29, 2022

Arno Hsieh

Approved By \_\_\_\_\_

Arno Hsieh

## We hereby certify that:

The above equipment was tested by SGS Taiwan Ltd. Central RF Lab The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10:2013 and the energy emitted by the sample EUT comply with FCC rule part §15.247 and 15.407.

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
TERF2208001578E2	00	Original	November 10, 2022	Violetta Tang	
TERF2208001578E2	01	Update applicant information	November 17, 2022	Violetta Tang	*

**Note:**

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

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# 1 GENERAL INFORMATION

## 1.1 Product Description

Product Name:	Wi-Fi 6E BT 5.2 M.2 2230 Module
Brand Name:	LITEON
Model No.:	WCBN814A
Model Difference:	N/A
Hardware Version:	N/A
Firmware Version:	N/A
EUT Series No.:	2022070056
Class II Permissive change:	WCBN814A modules INSTALLED IN C5011S
Host Information:	Product Name: ClickShare Brand Name: Barco Model Name: C5011S
Power Supply:	19V
Test Software (Name / Version)	Qualcomm® Radio Control Toolkit v4.0.00163.0

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**1.2 Test Methodology of Applied Standards**

FCC Part 15, Subpart C §15.247  
 FCC Part 15, Subpart E §15.407  
 FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01  
 FCC KDB 662911 D01 Multiple Transmitter Output v02r01  
 ANSI C63.10:2013

**1.3 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		
		Conduction C		
	SAC C			
	SAC D			
	SAC G			
	Conducted A			
	Conducted B			
	Conducted C			
	Conducted D			
	Conducted E			
	Conducted F			
	Conducted G			
No.2, Keji 1st Rd., Guishan District, Taoyuan City, Taiwan 333				

**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.

**1.4 Special Accessories**

There are no special accessories used while test was conducted.

**1.5 Equipment Modifications**

There was no modification incorporated into the EUT.

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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

An engineering test mode (software/firmware) that applicant provided was utilized to manipulate the EUT into transmit, selection of the test channel, and modulation scheme.

### 2.3 Test Procedure

#### 2.3.1 Radiated Emissions

The EUT is placed on a turn table. For emissions testing at or below 1 GHz, the table height shall be 0.8 m above the reference ground plane. For emission measurements above 1 GHz, the table height shall be 1.5 m. The turn table shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the max. emission, the relative positions of this transmitter (EUT) was rotated through three orthogonal axes and measurement procedures for electric field radiated emissions above 1 GHz the EUT measurement is to be made "while keeping the antenna in the 'cone of radiation' from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response." is still within the 3dB illumination BW of the measurement antenna.

### 2.4 Measurement Results Explanation Example

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

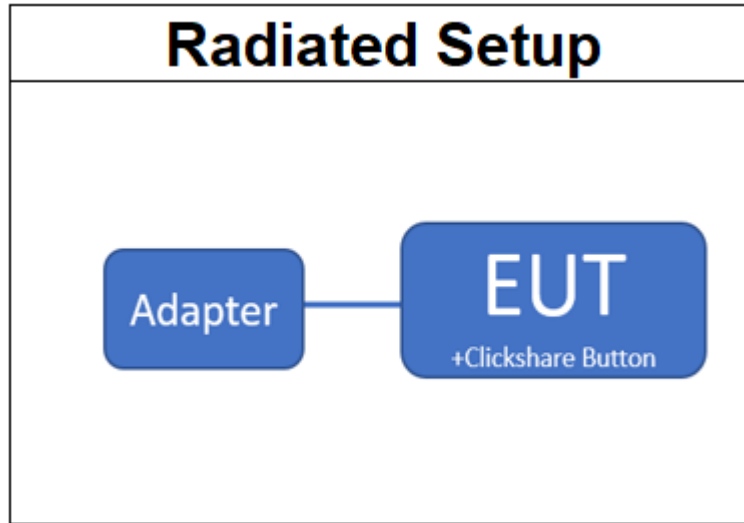
Radiated emission below 30MHz is measured in a 9m\*6m\*6m semi-anechoic chamber, the measurements correspond to those obtained at an open-field test site.

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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## 2.5 Test Configuration



## 2.6 Control Unit(s)

Radiated Emission Test Site: SAC G					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
AC Adapter 1	Adapter Technology	ATM090T-A190	N/A	N/A	N/A
Clickshare Button	Barco NV	R9861600D01C	N/A	N/A	N/A

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### 3 SUMMARY OF TEST RESULT

FCC Rules	Description Of Test	Result
§15.205 §15.209 §15.247(d) §15.407(b)	Undesirable Radiated Emissions	Compliant

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## 4 DESCRIPTION OF TEST MODES

### 4.1 The Worst Test Modes and Channel Details

1. The EUT has been tested under operating condition.
2. Test program used to control the EUT for staying in continuous transmitting mode is programmed.
3. Investigation has been done on all the possible configurations for searching the worst case. The given UE is pre-scanned among below modes.

Test mode

Final test modes are considering the modulation and worse data rate as below table.

Modulation
Bluetooth + 802.11b + 802.11a
Bluetooth + 802.11a + 802.11b
Bluetooth + 802.11b + 802.11a (6E)
Bluetooth + 802.11a + 802.11a (6E)

**Note:**

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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## 5 MEASUREMENT UNCERTAINTY

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

**Note:**

1. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.
2. The conformity assessment statement in this report is based solely on the test results, measurement uncertainty is excluded.

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## 6 UNDESIRABLE RADIATED EMISSION MEASUREMENT

### 6.1 Standard Applicable

$EIRP = (E \cdot d)^2 / 30$ , where  $E$  is the field strength in V/m,  $d$  is the measurement distance (3m),  $EIRP$  is the equivalent isotropically radiated power in Watts.

#### 6.1.1 5150~5850 MHz

Applicable to	Operation Freq. (MHz)	EIRP		Field Strength @ 3m (dB $\mu$ V/m)
		Freq. (MHz)	Limits (dBm/MHz)	
15.407(b)(1)	5150~5250	$f \leq 5150$	PK: -27	PK: 68.2
15.407(b)(2)	5250~5350	$f \geq 5350$		
15.407(b)(3)	5475~5725	$f \leq 5470$ $f \geq 5725$		
15.407(b)(4)(i)	5725~5850	at 75 MHz or more above or below the band edge	PK:-27	PK: 68.2
		increasing linearly from 75~25MHz above or below the band edge	PK:-27~10	PK: 68.2~105.2
		increasing linearly from 25~5MHz above or below the band edge	PK:10~15.6	PK: 105.2~110.8
		increasing linearly from 5~0 MHz above or below the band edge	PK: 15.6~27	PK:110.8~122.2

### 6.1.2 Spurious Emission

Unwanted spurious emissions which fall in the restricted bands must comply with the radiated emission limits specified as below table:

Frequency (MHz)	Field strength (microvolts/meter)	Distance (meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

**Note:**

1. The lower limit shall apply at the transition frequencies.

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**6.2 Measurement Equipment Used:**

Radiated Emission Test Site: SAC G					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Broadband Antenna	SCHWARZBECK	VULB 9168	1206	02/15/2022	02/14/2023
Horn Antenna	Schwarzbeck	BBHA9170	184	12/15/2022	12/14/2023
Horn Antenna	RF SPIN	DRH18-E	210105A18E	04/08/2022	04/07/2023
Loop Antenna	ETS.LINDGREN	6502	143303	05/06/2022	05/07/2023
3m Site NSA	SGS	966 chamber G	N/A	03/30/2022	03/29/2023
Spectrum Analyzer	KEYSIGHT	N9010A	MY51440113	07/13/2022	07/14/2023
Test Software	audix	e3	E3 20923 SGS Ver.9 ( C )	N.C.R	N.C.R
Pre-Amplifier	EMC Instruments	EMC184045B	980135	10/27/2021	10/26/2022
Pre-Amplifier	EMC Instruments	EMC330N	980781	03/15/2022	03/14/2023
Pre-Amplifier	EMC Instruments	EMC118A45SE	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 Not Calibrated Required.

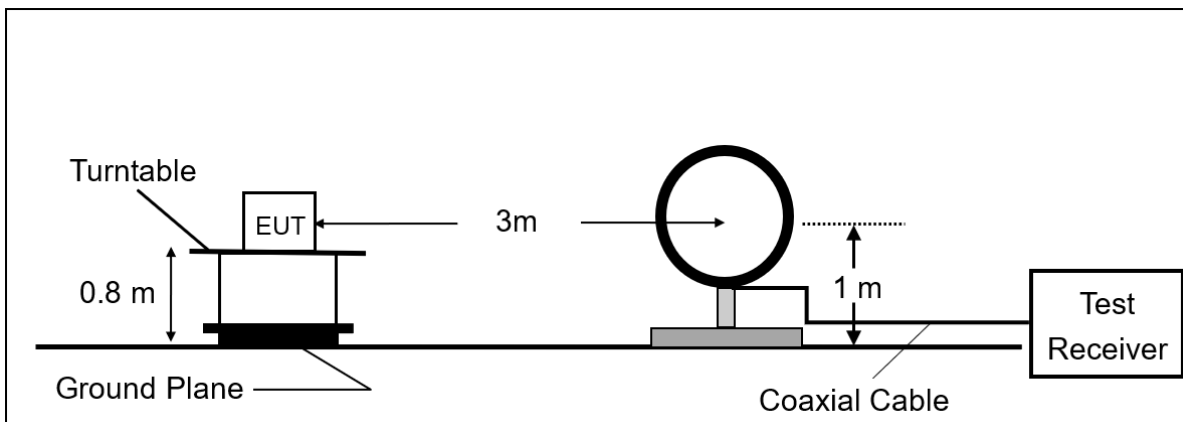
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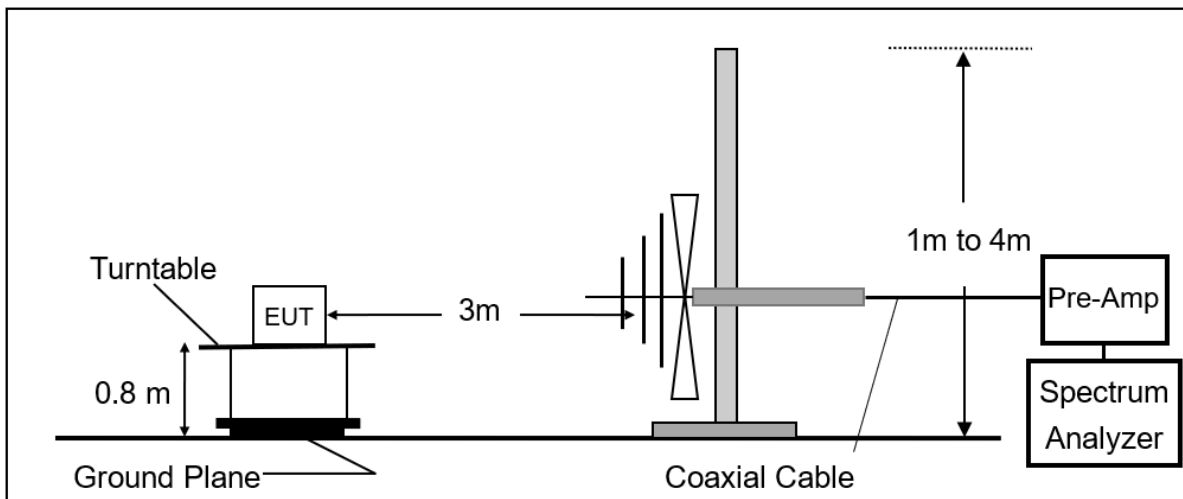
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### 6.3 Test Setup

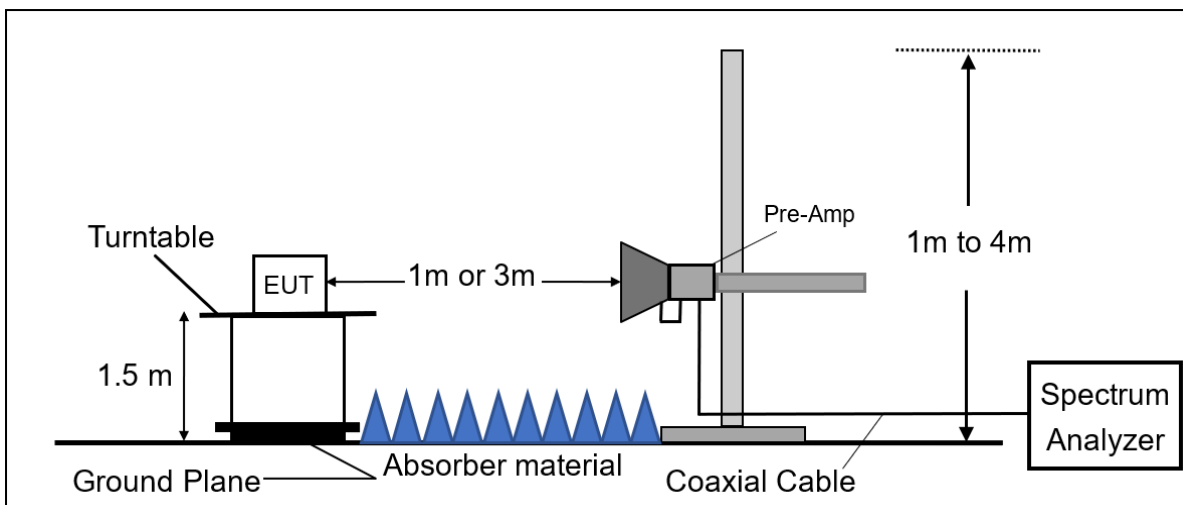
(A) Radiated Emission Test Set-Up, Frequency Below 30MHz.



(B) Radiated Emission Test Set-Up, Frequency From 30MHz to 1000MHz



(C) Radiated Emission Test Set-Up, Frequency Above 1GHz



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#### 6.4 Measurement Procedure

1. The testing follows FCC KDB 789033 D02.
2. The EUT was placed on a turn table with 0.8m for frequency < 1GHz and 1.5m for frequency > 1GHz above ground plane.
3. The turn table shall rotate 360 degrees to determine the position of maximum emission level.
4. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emissions.
5. Set the spectrum analyzer as RBW=100 kHz and VBW=300 kHz for Peak Detector (PK) at frequency between 30MHz and 1 GHz
6. Use receiver mode as RBW=120 kHz for Quasi-peak (QP) at frequency between 30MHz and 1 GHz.
7. Set the spectrum analyzer as RBW=1 MHz, VBW=3 MHz for Maximum Emission Measurements at frequency above 1 GHz.
8. Set the spectrum analyzer as RBW=1 MHz, VBW=10 Hz (Duty cycle > 98%) or VBW  $\geq$  1/T (Duty cycle < 98%) for Average Emission Measurements at frequency above 1 GHz.
9. When 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.
10. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
11. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
12. Repeat above procedures until all frequency measured were complete.

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## 6.5 Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

$$FS = RA + AF + CL - AG$$

**Where** *FS* = Field Strength

*CL* = Cable Attenuation Factor (Cable Loss)

*RA* = Reading Amplitude

*AG* = Amplifier Gain

*AF* = Antenna Factor

The limit of the emission level is expressed in dBuV/m, which converts  $20 \cdot \log(\mu\text{V/m})$

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre\_Amplifier Gain(dB)

## 6.6 Test Results of Radiated Spurious Emissions from 9 kHz to 30 MHz

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit per 15.31(o) was not reported.

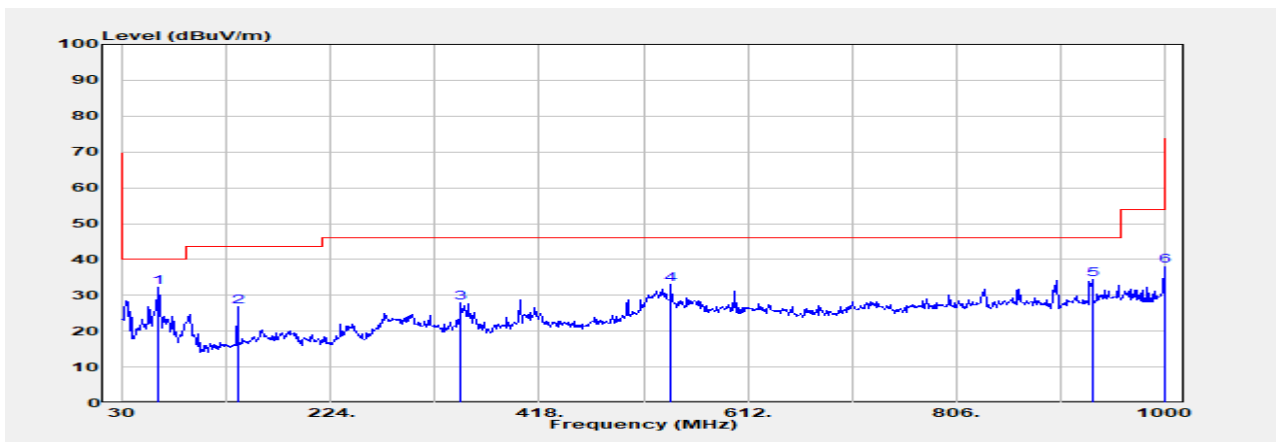
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## 6.7 Radiated Spurious Emission Measurement Result

### 6.7.1 Spurious Emission

Report Number	:TERF2208001578E2	Test Site	:SAC G
Operation Mode	:802.11b+802.11a+BT BR	Test Date	:2022-10-07
Test Frequency	:2441+2437+5300 MHz	Temp./Humi.	:22.1/69
Test Mode	:Tx CH 39+6+60	Antenna Pol.	:VERTICAL
EUT Pol	:E2 Plane	Engineer	:Temo Chen



Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
62.980	Peak	46.22	-13.98	32.24	40.00	-7.76
136.700	Peak	40.64	-13.72	26.93	43.50	-16.57
345.250	Peak	38.97	-11.09	27.87	46.00	-18.13
540.220	Peak	39.92	-6.88	33.04	46.00	-12.96
933.070	Peak	34.78	-0.30	34.49	46.00	-11.51
1000.000	Peak	40.14	-2.01	38.13	54.00	-15.87

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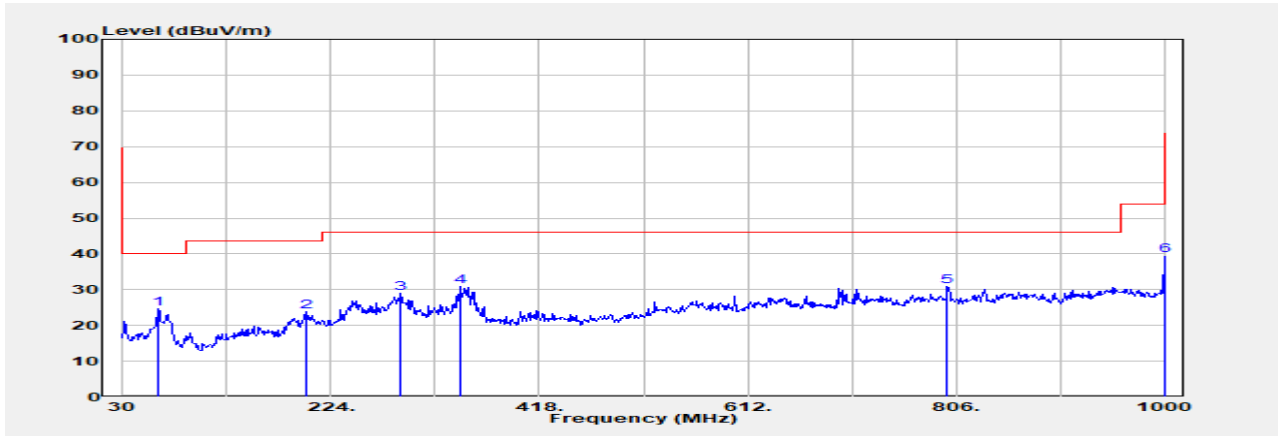
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 Operation Mode :802.11b+802.11a+BT BR  
 Test Frequency :2441+2437+5300 MHz  
 Test Mode :Tx CH 39+6+60  
 EUT Pol :E2 Plane

Test Site :SAC G  
 Test Date :2022-10-07  
 Temp./Humi. :22.1/69  
 Antenna Pol. :HORIZONTAL  
 Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
62.980	Peak	38.58	-13.98	24.59	40.00	-15.41
201.690	Peak	40.01	-16.25	23.76	43.50	-19.74
288.990	Peak	41.75	-12.68	29.07	46.00	-16.93
344.280	Peak	42.09	-11.13	30.96	46.00	-15.04
798.240	Peak	33.05	-2.24	30.81	46.00	-15.19
1000.000	Peak	41.58	-2.01	39.57	54.00	-14.43

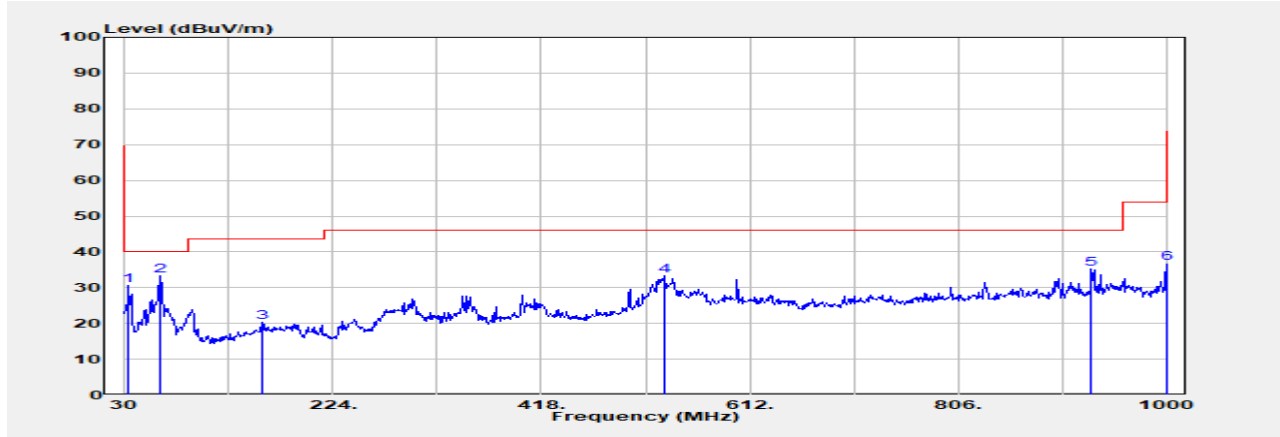
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 Test Mode :Tx CH 39+6+60  
 EUT Pol :E2 Plane

Test Site :SAC G  
 Test Date :2022-10-07  
 Temp./Humi. :22.1/69  
 Antenna Pol. :VERTICAL  
 Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
33.880	Peak	44.81	-14.22	30.59	40.00	-9.41
62.980	Peak	47.20	-13.98	33.21	40.00	-6.79
158.040	Peak	33.40	-13.08	20.31	43.50	-23.19
532.460	Peak	40.54	-7.34	33.20	46.00	-12.80
930.160	Peak	35.64	-0.33	35.31	46.00	-10.69
1000.000	Peak	38.81	-2.01	36.80	54.00	-17.20

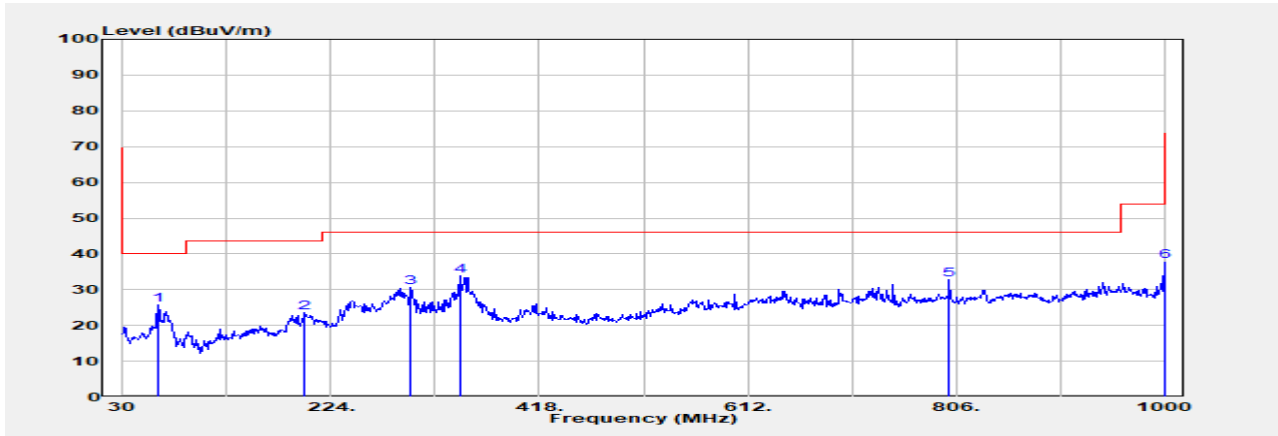
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 Operation Mode :802.11b+802.11a+BT BR  
 Test Frequency :2441+2437+5300 MHz  
 Test Mode :Tx CH 39+6+60  
 EUT Pol :E2 Plane

Test Site :SAC G  
 Test Date :2022-10-07  
 Temp./Humi. :22.1/69  
 Antenna Pol. :HORIZONTAL  
 Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
62.010	Peak	39.65	-13.97	25.68	40.00	-14.32
199.750	Peak	39.70	-16.25	23.44	43.50	-20.06
298.690	Peak	43.19	-12.54	30.65	46.00	-15.35
344.280	Peak	44.89	-11.13	33.76	46.00	-12.24
800.180	Peak	34.91	-2.15	32.76	46.00	-13.24
1000.000	Peak	40.05	-2.01	38.04	54.00	-15.96

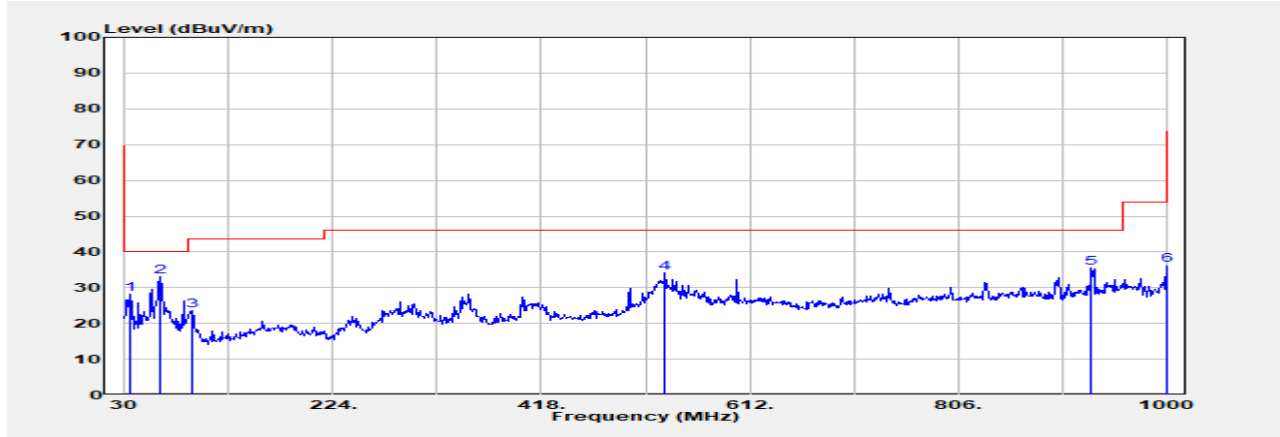
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 Test Frequency :2441+2437+5955 MHz  
 Test Mode :Tx CH 39+6+1  
 EUT Pol :E2 Plane

Test Site :SAC G  
 Test Date :2022-10-07  
 Temp./Humi. :22.1/69  
 Antenna Pol. :VERTICAL  
 Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
34.850	Peak	41.96	-13.89	28.07	40.00	-11.93
62.010	Peak	47.04	-13.97	33.07	40.00	-6.93
93.050	Peak	42.38	-18.71	23.67	43.50	-19.83
533.430	Peak	41.47	-7.33	34.14	46.00	-11.86
930.160	Peak	35.74	-0.33	35.41	46.00	-10.59
1000.000	Peak	38.32	-2.01	36.31	54.00	-17.69

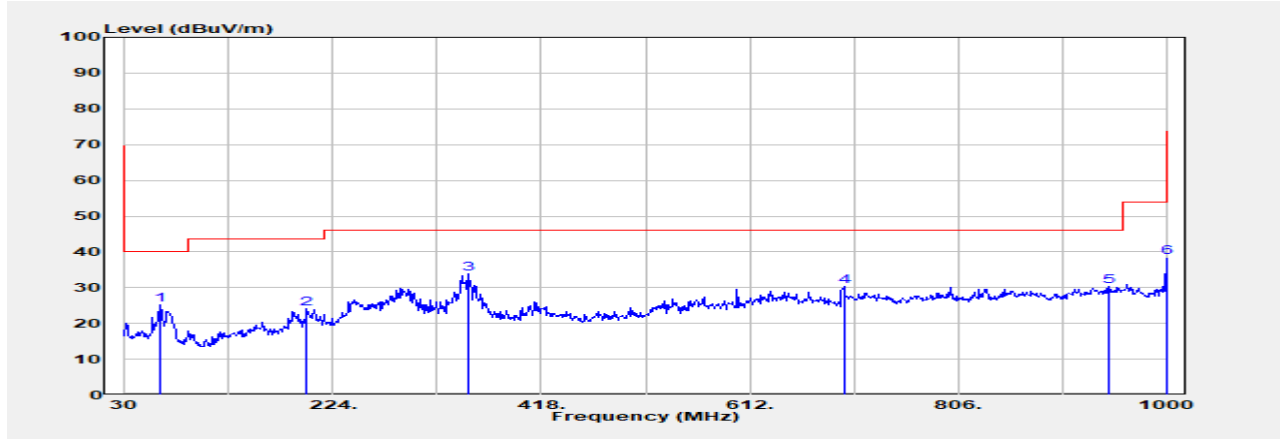
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 Test Mode :Tx CH 39+6+1  
 EUT Pol :E2 Plane

Test Site :SAC G  
 Test Date :2022-10-07  
 Temp./Humi. :22.1/69  
 Antenna Pol. :HORIZONTAL  
 Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
62.980	Peak	39.13	-13.98	25.15	40.00	-14.85
199.750	Peak	40.41	-16.25	24.16	43.50	-19.34
350.100	Peak	45.07	-11.18	33.89	46.00	-12.11
700.270	Peak	34.12	-3.89	30.23	46.00	-15.77
946.650	Peak	30.22	0.18	30.40	46.00	-15.60
1000.000	Peak	40.45	-2.01	38.44	54.00	-15.56

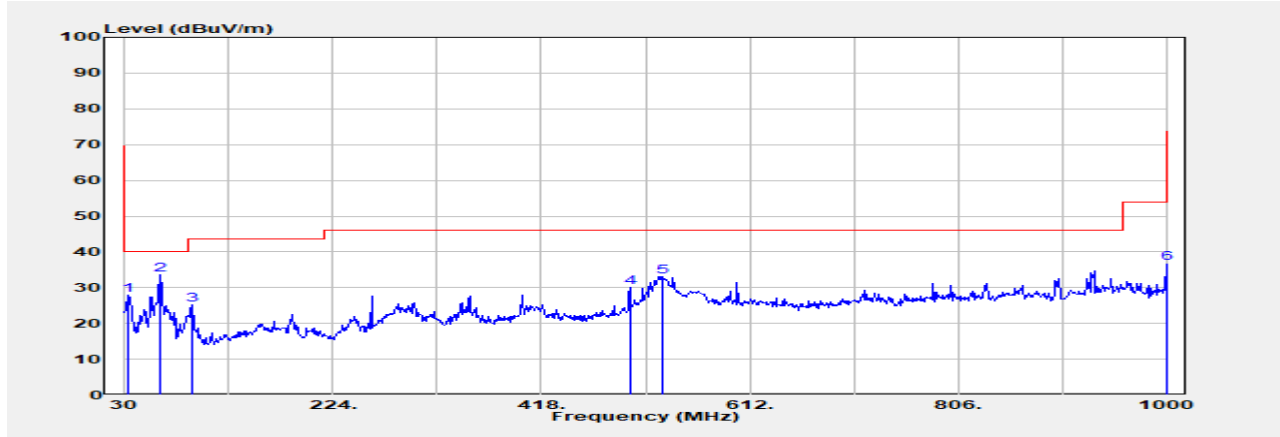
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 Test Mode :Tx CH 39+60+1  
 EUT Pol :E2 Plane

Test Site :SAC G  
 Test Date :2022-10-07  
 Temp./Humi. :22.1/69  
 Antenna Pol. :VERTICAL  
 Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
33.880	Peak	42.00	-14.22	27.78	40.00	-12.22
62.980	Peak	47.53	-13.98	33.55	40.00	-6.45
92.080	Peak	43.79	-18.71	25.08	43.50	-18.42
500.450	Peak	37.79	-7.82	29.96	46.00	-16.04
531.490	Peak	40.52	-7.35	33.17	46.00	-12.83
1000.000	Peak	38.86	-2.01	36.85	54.00	-17.15

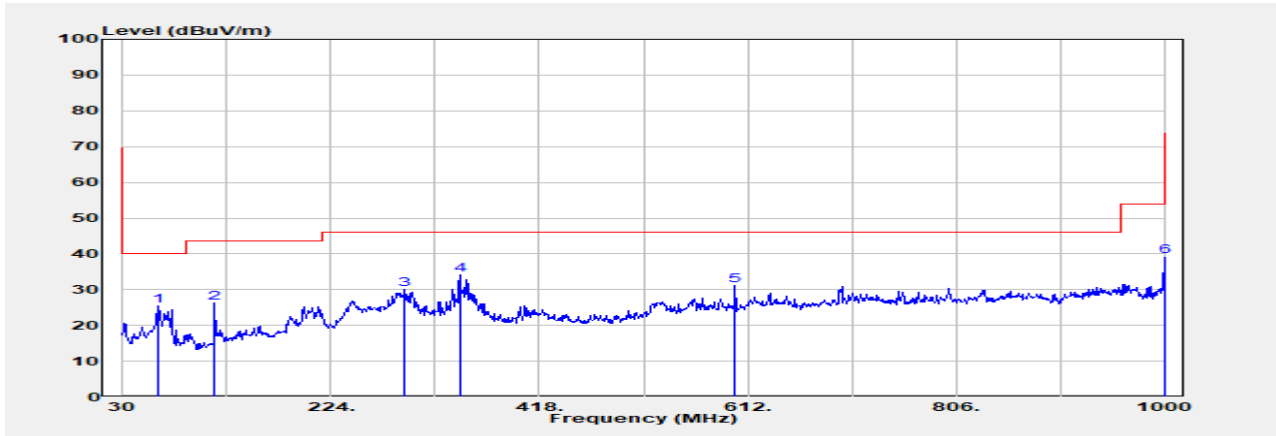
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 Test Mode :Tx CH 39+60+1  
 EUT Pol :E2 Plane

Test Site :SAC G  
 Test Date :2022-10-07  
 Temp./Humi. :22.1/69  
 Antenna Pol. :HORIZONTAL  
 Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
62.010	Peak	39.47	-13.97	25.51	40.00	-14.49
115.360	Peak	41.96	-15.78	26.18	43.50	-17.32
292.870	Peak	42.81	-12.62	30.19	46.00	-15.81
344.280	Peak	45.18	-11.13	34.05	46.00	-11.95
600.360	Peak	37.27	-6.14	31.14	46.00	-14.86
1000.000	Peak	41.33	-2.01	39.32	54.00	-14.68

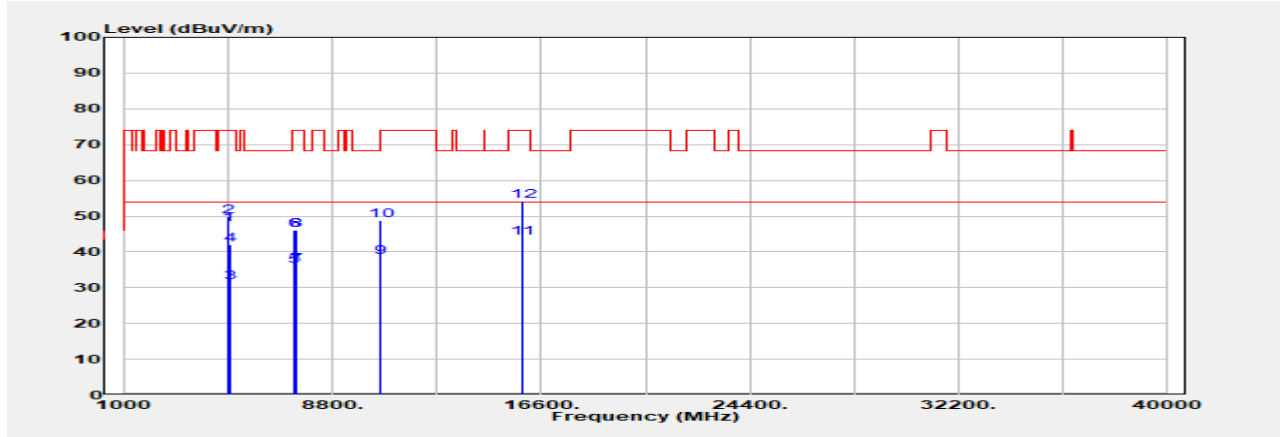
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 Test Frequency :2441+2437+5300 MHz  
 Test Mode :Tx CH 39+6+60  
 EUT Pol :E2 Plane

Test Site :SAC G  
 Test Date :2022-10-13  
 Temp./Humi. :21.4/70  
 Antenna Pol. :VERTICAL  
 Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
4874.000	Average	44.23	3.48	47.71	54.00	-6.29
4874.000	Peak	46.46	3.48	49.94	74.00	-24.06
4960.000	Average	27.89	3.58	31.47	54.00	-22.53
4960.000	Peak	38.40	3.58	41.98	74.00	-32.02
7311.000	Average	28.33	7.62	35.95	54.00	-18.05
7311.000	Peak	38.41	7.62	46.04	74.00	-27.96
7440.000	Average	28.05	8.19	36.24	54.00	-17.76
7440.000	Peak	37.95	8.19	46.14	74.00	-27.86
10600.000	Average	29.50	8.99	38.49	54.00	-15.51
10600.000	Peak	39.82	8.99	48.81	74.00	-25.19
15900.000	Average	31.56	12.41	43.97	54.00	-10.03
15900.000	Peak	41.67	12.41	54.08	74.00	-19.92

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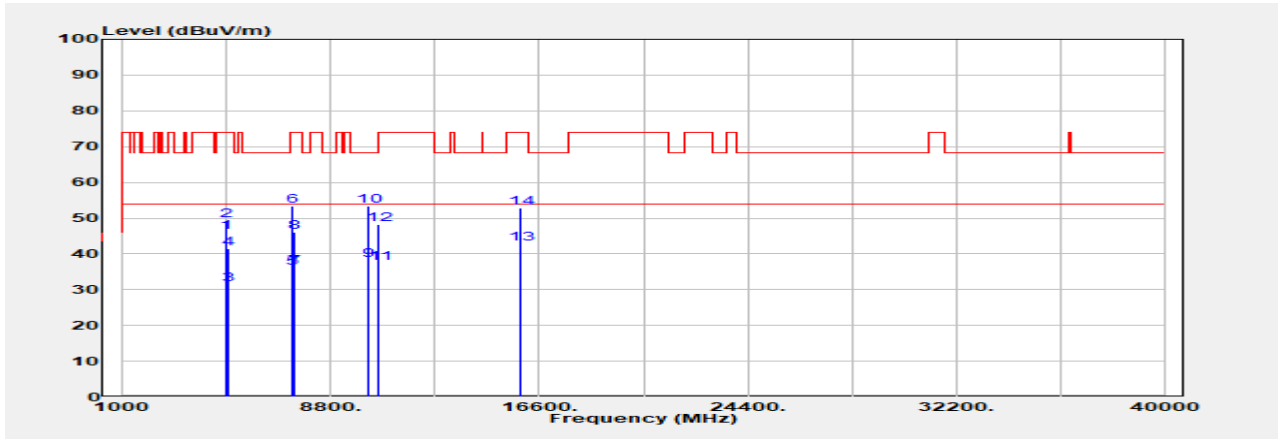
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Report Number :TERF2208001578E2  
 Operation Mode :802.11b+802.11a+BT BR  
 Test Frequency :2441+2437+5300 MHz  
 Test Mode :Tx CH 39+6+60  
 EUT Pol :E2 Plane

Test Site :SAC G  
 Test Date :2022-10-13  
 Temp./Humi. :21.4/70  
 Antenna Pol. :HORIZONTAL  
 Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
4874.000	Average	42.63	3.48	46.11	54.00	-7.89
4874.000	Peak	45.95	3.48	49.43	74.00	-24.57
4960.000	Average	27.86	3.58	31.44	54.00	-22.56
4960.000	Peak	37.82	3.58	41.40	74.00	-32.60
7311.000	Average	28.32	7.62	35.94	54.00	-18.06
7311.000	Peak	45.83	7.62	53.46	74.00	-20.54
7440.000	Average	28.10	8.19	36.29	54.00	-17.71
7440.000	Peak	37.96	8.19	46.15	74.00	-27.85
10168.000	Average	29.24	9.04	38.28	54.00	-15.72
10168.000	Peak	44.45	9.04	53.49	68.20	-14.71
10600.000	Average	28.43	8.99	37.42	54.00	-16.58
10600.000	Peak	39.17	8.99	48.16	74.00	-25.84
15900.000	Average	30.43	12.41	42.84	54.00	-11.16
15900.000	Peak	40.44	12.41	52.85	74.00	-21.15

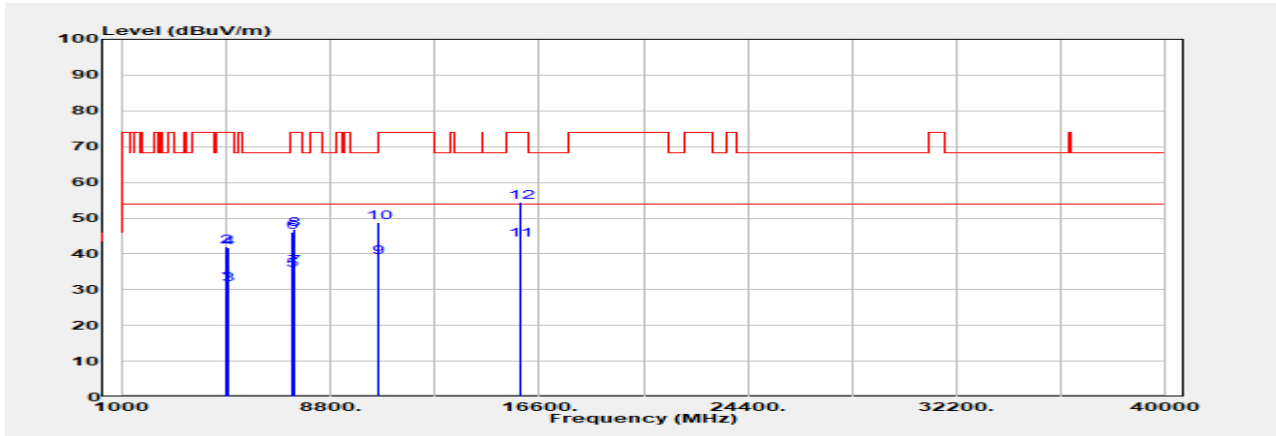
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Report Number :TERF2208001578E2  
 Operation Mode :802.11b+802.11a+BT BR  
 Test Frequency :2441+2437+5300 MHz  
 Test Mode :Tx CH 39+6+60  
 EUT Pol :E2 Plane

Test Site :SAC G  
 Test Date :2022-10-13  
 Temp./Humi. :21.5/70  
 Antenna Pol. :VERTICAL  
 Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4874.000	Average	28.41	3.48	31.89	54.00	-22.11
4874.000	Peak	38.65	3.48	42.13	74.00	-31.87
4960.000	Average	27.77	3.58	31.35	54.00	-22.65
4960.000	Peak	38.13	3.58	41.71	74.00	-32.29
7311.000	Average	27.81	7.62	35.43	54.00	-18.57
7311.000	Peak	38.34	7.62	45.96	74.00	-28.04
7440.000	Average	28.09	8.19	36.28	54.00	-17.72
7440.000	Peak	38.65	8.19	46.84	74.00	-27.16
10600.000	Average	30.15	8.99	39.14	54.00	-14.86
10600.000	Peak	39.76	8.99	48.75	74.00	-25.25
15900.000	Average	31.56	12.41	43.97	54.00	-10.03
15900.000	Peak	42.08	12.41	54.49	74.00	-19.51

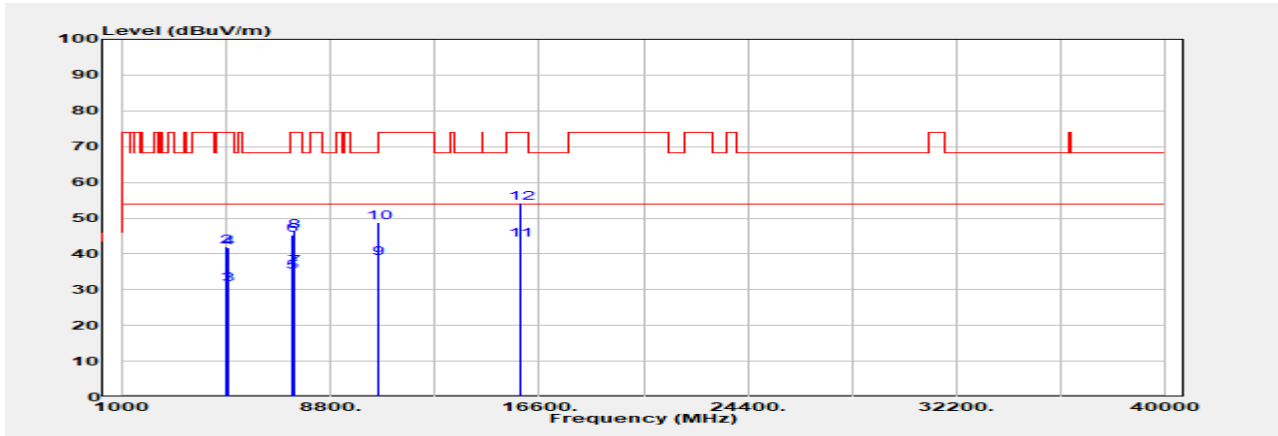
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Report Number :TERF2208001578E2  
 Operation Mode :802.11b+802.11a+BT BR  
 Test Frequency :2441+2437+5300 MHz  
 Test Mode :Tx CH 39+6+60  
 EUT Pol :E2 Plane

Test Site :SAC G  
 Test Date :2022-10-13  
 Temp./Humi. :21.5/70  
 Antenna Pol. :HORIZONTAL  
 Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
4874.000	Average	28.36	3.48	31.84	54.00	-22.16
4874.000	Peak	38.63	3.48	42.11	74.00	-31.89
4960.000	Average	27.76	3.58	31.34	54.00	-22.66
4960.000	Peak	38.26	3.58	41.84	74.00	-32.16
7311.000	Average	27.45	7.62	35.08	54.00	-18.92
7311.000	Peak	37.57	7.62	45.20	74.00	-28.80
7440.000	Average	28.01	8.19	36.20	54.00	-17.80
7440.000	Peak	38.17	8.19	46.36	74.00	-27.64
10600.000	Average	29.87	8.99	38.86	54.00	-15.14
10600.000	Peak	39.82	8.99	48.81	74.00	-25.19
15900.000	Average	31.61	12.41	44.02	54.00	-9.98
15900.000	Peak	41.92	12.41	54.33	74.00	-19.67

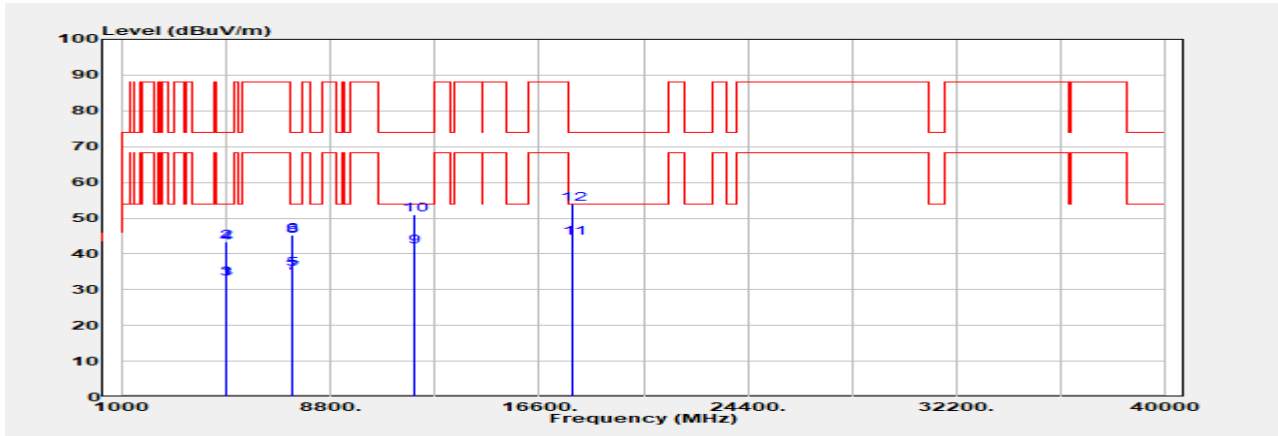
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Report Number :TERF2208001578E2  
 Operation Mode :802.11b+802.11a+BT BR  
 Test Frequency :2441+2437+5955 MHz  
 Test Mode :Tx CH 39+6+1  
 EUT Pol :E2 Plane

Test Site :SAC G  
 Test Date :2022-10-18  
 Temp./Humi. :21.6/65  
 Antenna Pol. :VERTICAL  
 Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
4874.000	Average	29.52	3.48	33.00	54.00	-21.00
4874.000	Peak	39.90	3.48	43.38	74.00	-30.62
4882.000	Average	29.51	3.55	33.06	54.00	-20.94
4882.000	Peak	39.53	3.55	43.08	74.00	-30.92
7311.000	Average	28.21	7.62	35.84	54.00	-18.16
7311.000	Peak	37.67	7.62	45.29	74.00	-28.71
7323.000	Average	27.08	7.66	34.74	54.00	-19.26
7323.000	Peak	37.39	7.66	45.06	74.00	-28.94
11910.000	Average	30.97	10.91	41.88	54.00	-12.12
11910.000	Peak	40.14	10.91	51.05	74.00	-22.95
17865.000	Average	32.91	11.58	44.49	54.00	-9.51
17865.000	Peak	42.41	11.58	53.98	74.00	-20.02

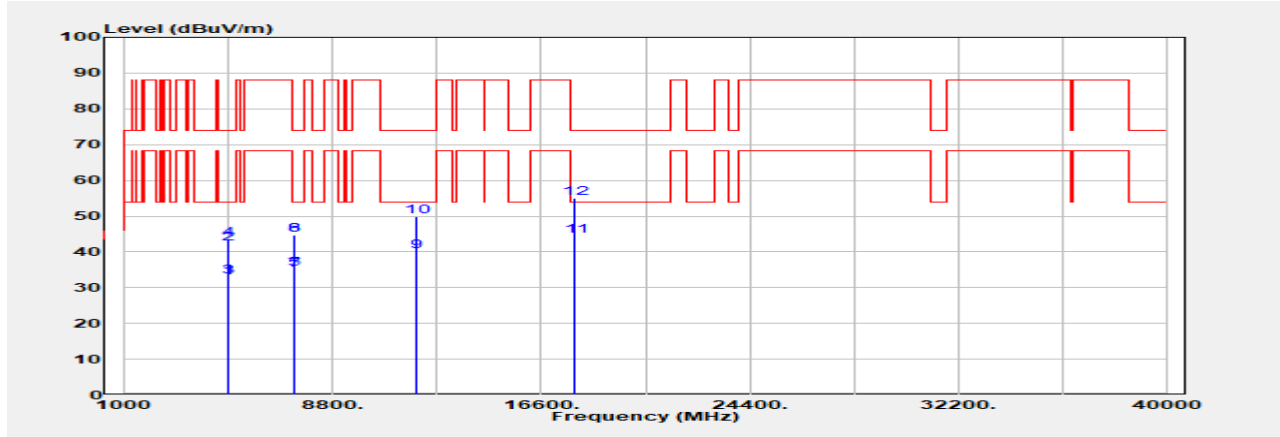
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Report Number :TERF2208001578E2  
 Operation Mode :802.11b+802.11a+BT BR  
 Test Frequency :2441+2437+5955 MHz  
 Test Mode :Tx CH 39+6+1  
 EUT Pol :E2 Plane

Test Site :SAC G  
 Test Date :2022-10-18  
 Temp./Humi. :21.6/65  
 Antenna Pol. :HORIZONTAL  
 Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
4874.000	Average	29.36	3.48	32.84	54.00	-21.16
4874.000	Peak	38.87	3.48	42.35	74.00	-31.65
4882.000	Average	29.42	3.55	32.97	54.00	-21.03
4882.000	Peak	40.08	3.55	43.63	74.00	-30.37
7311.000	Average	27.50	7.62	35.13	54.00	-18.87
7311.000	Peak	37.11	7.62	44.74	74.00	-29.26
7323.000	Average	27.19	7.66	34.85	54.00	-19.15
7323.000	Peak	37.05	7.66	44.71	74.00	-29.29
11910.000	Average	29.14	10.91	40.05	54.00	-13.95
11910.000	Peak	38.84	10.91	49.75	74.00	-24.25
17865.000	Average	32.87	11.58	44.45	54.00	-9.55
17865.000	Peak	43.50	11.58	55.08	74.00	-18.92

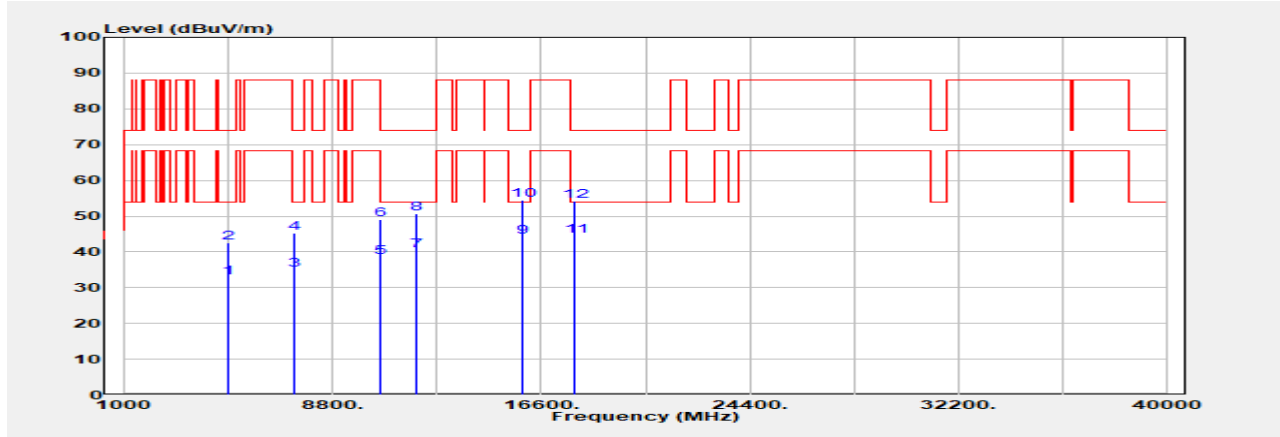
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Report Number :TERF2208001578E2  
 Operation Mode :802.11a+802.11a+BT BR  
 Test Frequency :2441+5300+5955 MHz  
 Test Mode :Tx CH 39+60+1  
 EUT Pol :E2 Plane

Test Site :SAC G  
 Test Date :2022-10-19  
 Temp./Humi. :21.5/67  
 Antenna Pol. :VERTICAL  
 Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dBμV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
4882.000	Average	29.28	3.55	32.83	54.00	-21.17
4882.000	Peak	39.11	3.55	42.66	74.00	-31.34
7323.000	Average	27.34	7.66	35.00	54.00	-19.00
7323.000	Peak	37.61	7.66	45.27	74.00	-28.73
10600.000	Average	29.41	8.99	38.40	54.00	-15.60
10600.000	Peak	40.20	8.99	49.19	74.00	-24.81
11910.000	Average	29.38	10.91	40.29	54.00	-13.71
11910.000	Peak	39.78	10.91	50.68	74.00	-23.32
15900.000	Average	31.68	12.41	44.09	54.00	-9.91
15900.000	Peak	42.00	12.41	54.41	74.00	-19.59
17865.000	Average	32.97	11.58	44.55	54.00	-9.45
17865.000	Peak	42.63	11.58	54.21	74.00	-19.79

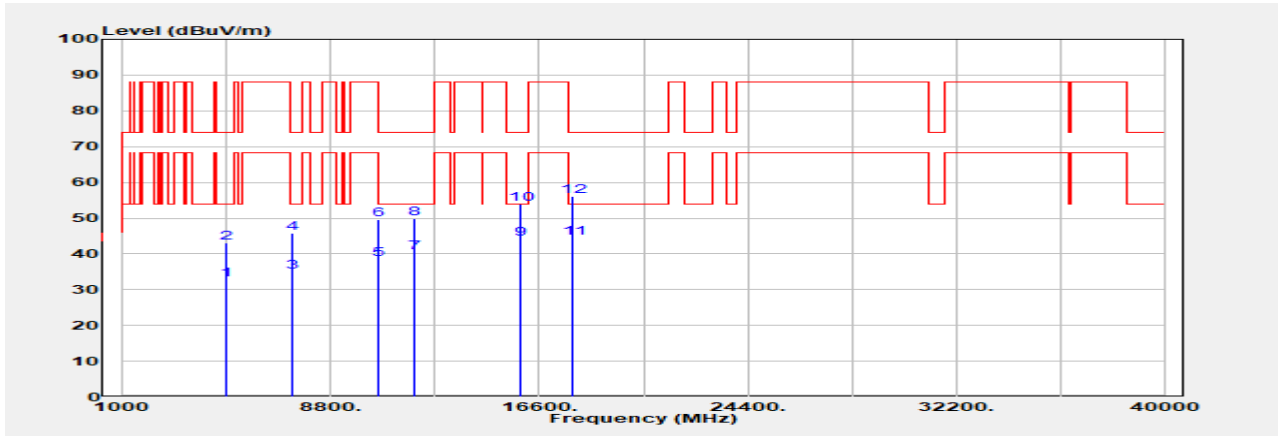
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Report Number :TERF2208001578E2  
 Operation Mode :802.11a+802.11a+BT BR  
 Test Frequency :2441+5300+5955 MHz  
 Test Mode :Tx CH 39+60+1  
 EUT Pol :E2 Plane

Test Site :SAC G  
 Test Date :2022-10-19  
 Temp./Humi. :21.5/67  
 Antenna Pol. :HORIZONTAL  
 Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
4882.000	Average	29.33	3.55	32.88	54.00	-21.12
4882.000	Peak	39.59	3.55	43.14	74.00	-30.86
7323.000	Average	27.32	7.66	34.98	54.00	-19.02
7323.000	Peak	38.04	7.66	45.70	74.00	-28.30
10600.000	Average	29.56	8.99	38.55	54.00	-15.45
10600.000	Peak	40.48	8.99	49.47	74.00	-24.53
11910.000	Average	29.39	10.91	40.30	54.00	-13.70
11910.000	Peak	38.96	10.91	49.87	74.00	-24.13
15900.000	Average	31.64	12.41	44.05	54.00	-9.95
15900.000	Peak	41.56	12.41	53.97	74.00	-20.03
17865.000	Average	32.99	11.58	44.57	54.00	-9.43
17865.000	Peak	44.63	11.58	56.21	74.00	-17.79

~ End of Report ~

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