

ELECTROMAGNETIC EMISSIONS
COMPLIANCE TEST REPORT

Applicant: Silex Technology, Inc.
2-3-1 Hikaridai, Seika-cho, Soraku-gun, Kyoto 619-0237,
Japan

Manufacturer: Silex Technology, Inc.
2-3-1 Hikaridai, Seika-cho, Soraku-gun, Kyoto 619-0237,
Japan

Product Name: Embedded wireless module

Brand Name: Silex Technology

Model No.: SX-PCEAX

Report Number: TERF2305001149ER

FCC ID N6C-PCEAX

IC: 4908A-PCEAX

Date of EUT Received: April 26, 2023

Date of Test: May 5, 2023~July 5, 2023

Issue Date: November 23, 2023

Approved By

Jim Chang

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, ISSED RSS-247.

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
TERF2305001149ER	00	Original.	November 9, 2023	Susan Lin	
TERF2305001149ER	01	Revise the Firmware Version	November 23, 2023	Susan Lin	*

Note:

- 1、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:	Embedded wireless module
Brand Name:	Silex Technology
Model No.:	SX-PCEAX
Hardware Version:	N/A
Firmware Version:	HY103710
EUT Series No.:	1CBCEC011DAC
Power Supply:	3.3Vdc
Test Software (Name/Version):	QRCT V4.0.210.0

1.2 Antenna Designation

BT

Antenna Type	Supplier	Antenna Part No.	Freq. (MHz)	Peak Antenna Gain (dBi)
Dipole	Molex	146153	2402~2480	3.175
Dipole	Unictron Technologies Corp.	AA258	2402~2480	2.67

WLAN 2.4GHz

Antenna Type	Supplier	Antenna Part No.	Freq. (MHz)	Peak Antenna Gain (dBi)	Directional Gain (dBi)
Dipole	Molex	146153	2412~2462	3.175	6.185
Dipole	Unictron Technologies Corp.	AA258	2412~2462	2.67	5.68

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WLAN 5GHz

Antenna Type	Supplier	Antenna Part No.	Freq. (MHz)	Peak Antenna Gain (dBi)	Directional Gain (dBi)
Dipole	Molex	146153	5150~5250	3.175	6.185
			5250~5350	2.975	5.985
			5470~5725	4.275	7.285
			5725~5850	3.775	6.785
			5850~5895	4.875	7.885
Dipole	Unictron Technologies Corp.	AA258	5150~5250	3.220	6.230
			5250~5350	3.910	6.920
			5470~5725	2.770	5.780
			5725~5850	3.920	6.930
			5850~5895	4.400	7.410

WLAN 6E

Antenna Type	Supplier	Antenna Part No.	Freq. (MHz)	Peak Antenna Gain (dBi)	Directional Gain (dBi)
Dipole	Molex	146153	5925~6425	5.025	8.035
			6425~6525	5.225	8.235
			6525~6875	5.425	8.435
			6875~7125	5.825	8.835
Dipole	Unictron Technologies Corp.	AA258	5925~6425	3.590	6.600
			6425~6525	3.630	6.640
			6525~6875	2.330	5.340
			6875~7125	1.370	4.380

Note:

- Pre-scanned was done on the above antennas, measurements were demonstrated by using the antenna with the highest gain as the worst case scenarios.
- Antenna information is provided by the applicant.
- As per section F. 2). e). (ii) of FCC KDB 662911 D01

If antenna gains are not equal and each transmit antenna is driven by only one spatial stream, directional gain may be calculated by either of the following formulas.

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$$\bullet \quad DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right]$$

where

Each antenna is driven by no more than one spatial stream;

NSS = the number of independent spatial streams of data;

NANT = the total number of antennas

$g_{j,k} = 10^{G_k/20}$ if the kth antenna is being fed by spatial stream j, or zero if it is not;

G_k is the gain in dBi of the kth antenna.

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1.3 Test Methodology of Applied Standards

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

RSS-247 issue 2 Feb. 2017

RSS-Gen, Issue 5 April 2018

ANSI C63.10:2013

1.4 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 2		
		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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1.5 Special Accessories

There are no special accessories used while test was conducted.

1.6 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.

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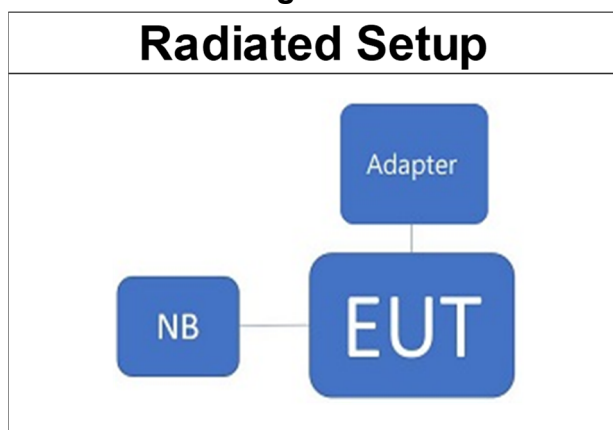
2.4 Measurement Results Explanation Example

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.

2.5 Test Configuration



2.6 Control Unit(s)

Radiated Emission Test Site: SAC 2					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Notebook	Lenovo	L480	PF-1D07MD	N/A	N/A
Adapter	EDAC	EA10682N-120	N/A	N/A	N/A

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3 SUMMARY OF TEST RESULT

FCC Rules	ISED Rules	Description Of Test	Result
§15.205 §15.209 §15.407(b)	RSS-247 §6.2.1~ 4 (2)	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.

TRANSMIT RADIATED EMISSION TEST (ABOVE 1 GHz)					
CONFIGURE MODE	MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)
1	2.4GHz: 802.11g + 6GHz: 802.11a	1 to 11	6	OFDM	6
		1 to 93	1	OFDM	6
2	2.4GHz: 802.11g + 5GHz: 802.11a	1 to 11	6	OFDM	6
		149 to 165	157	OFDM	6
3	BT-EDR + 6GHz: 802.11a	0 to 78	0	GFSK	3
		1 to 93	1	OFDM	6
4	BT-EDR + 5GHz: 802.11a	0 to 78	0	GFSK	3
		149 to 165	157	OFDM	6

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

Test Items	Uncertainty
Undesignable radiated emission measurement	+/- 1.68 dB
Temperature	+/- 0.7 °C
Humidity	+/- 3 %
DC / AC Power Source	+/- 1 %

Radiated Spurious Emission Measurement Uncertainty				
Polarization: Vertical	+/-	2.8	dB	9kHz~30MHz
	+/-	4.82	dB	30MHz - 1000MHz
	+/-	4.37	dB	1GHz - 18GHz
	+/-	4.21	dB	18GHz - 40GHz
Polarization: Horizontal	+/-	2.8	dB	9kHz~30MHz
	+/-	4.54	dB	30MHz - 1000MHz
	+/-	4.37	dB	1GHz - 18GHz
	+/-	4.21	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 (dBμV/m)
		Freq. (MHz)	Limits (dBm/MHz)	
15.407(b)(1) RSS-247 §6.2.1.2	5150~5250	$f \leq 5150$ $f \geq 5350$	PK: -27	PK: 68.2
15.407(b)(2) RSS-247 §6.2.2.2	5250~5350			
15.407(b)(3) RSS-247 §6.2.3.2	5475~5725	$f \leq 5470$ $f \geq 5725$		
15.407(b)(4)(i) RSS-247 §6.2.4.2	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

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6.1.2 5850~5925 MHz

Applicable to	Operation Freq. (MHz)	ETU categories	EIRP		Field Strength @ 3m (dBμV/m)
			Freq. (MHz)	Limits (dBm/MHz)	
15.407(b)(5)(i)	5850~5895 or channel span cross 5725~5895	indoor AP or subordinate device	decrease linealy from 5895 ~ 5925MHz and above	PK:15~-7	PK:110~102
15.407(b)(5)(ii)		Client device		PK:-5~-27	PK:90~68
15.407(b)(5)(iii)		Client / indoor AP / subordinate device	At 5650	PK:-27	PK:68
			increasing linearly from 5650~5700	PK:-27~10	PK:68~105
			increasing linearly from 5700~5720	PK:10~15.6	PK:105~110.6
			increasing linearly from 5720~5725	PK:15.6~27	PK:110.6~122

6.1.3 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:

- The lower limit shall apply at the transition frequencies.

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6.2 Measurement Equipment Used:

Radiated Emission Test Site: SAC 2					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Horn Antenna	RF SPIN	DRH18-E	210303A18-ES	02/24/2023	02/23/2024
Bi-log Antenna	SCHWARZBECK	VULB9168	9168-1278	03/09/2023	03/08/2024
Horn Antenna	SCHWARZBECK	BBHA9170	184	12/30/2022	12/29/2023
EXA Spectrum Analyzer	KEYSIGHT	N9010B	MY60242392	12/20/2022	12/19/2023
Test Software	Audix	e3	Ver. 9.210322	N.C.R	N.C.R
Pre-Amplifier	EMCI	EMC330N	980826	08/31/2022	08/30/2023
Pre-Amplifier	EMCI	EMC118A45SEE	980867	08/31/2022	08/30/2023
Pre-Amplifier	EMCI	EMC184045B	980135	10/27/2022	10/26/2023
Bandreject Filter 2400-2483.5	EWT	EWT-14-0166	M1	12/13/2022	12/12/2023
Bandreject Filter 5725-5875	Micro-Tronics	BRM50705	1	12/13/2022	12/12/2023
Bandreject Filter 5925-6425	Woken	WFIL-N5925-6425F	WRGBAFC2F9	12/13/2022	12/12/2023
4GHz High Pass Filter	WI	WHKX4.0/18G-10SS	22	12/13/2022	12/12/2023
Coaxial Cables	EMCI	EMCCFD400-NM-NM-10000	RX Cable below 1G (220238)	08/31/2022	08/30/2023
Coaxial Cables	EMCI	EMC104-SM-SM-600	RX Cable below 1G (220237)	08/31/2022	08/30/2023
Coaxial Cables	EMCI	EMC105-SM-SM-2000	RX Cable below 1G (220910)	08/31/2022	08/30/2023
Coaxial Cables	EMCI	EMC104-SM-SM-10000	RX Cable above 1G (220236)	08/31/2022	08/30/2023
Coaxial Cables	EMCI	EMC105-SM-SM-1000	RX Cable above 1G (201211)	08/31/2022	08/30/2023
Coaxial Cables	EMCI	EMC105-SM-SM-1500	RX Cable above 1G (220906)	08/31/2022	08/30/2023
Coaxial Cables	EMCI	EMC105-SM-SM-2000	RX Cable above 1G (220909)	08/31/2022	08/30/2023
Coaxial Cables	EMCI	EMCCFD400-NM-NM-10000	RX Cable below 30M (220238)	08/31/2022	08/30/2023
Coaxial Cables	EMCI	EMC105-SM-SM-2000	RX Cable below 30M (220910)	08/31/2022	08/30/2023
Site Cal	SGS	SAC 2	N/A	08/31/2022	08/30/2023

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

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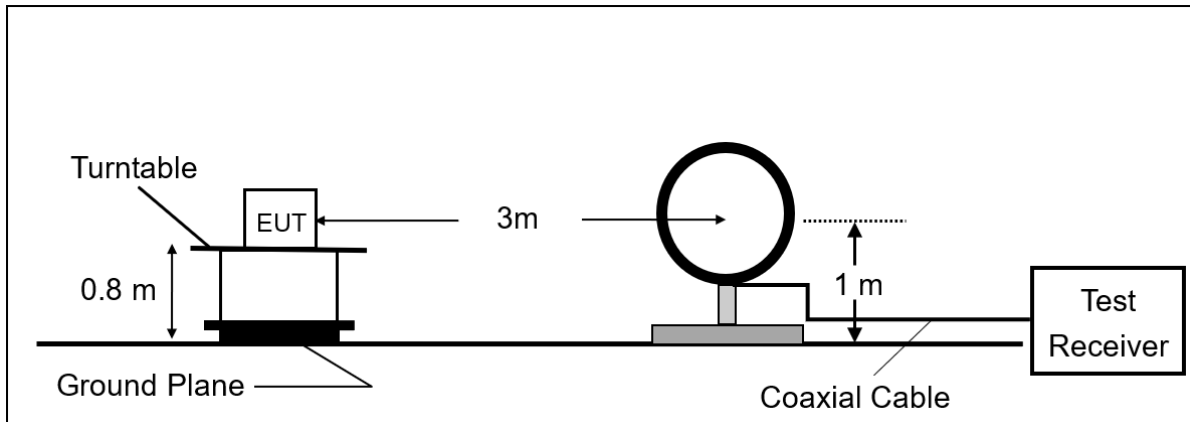
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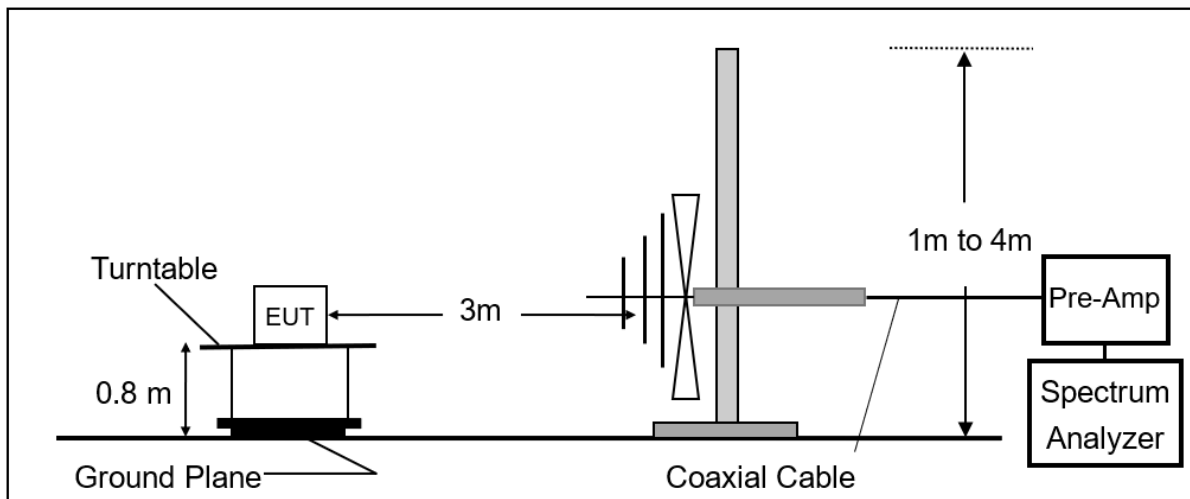
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6.3 Test Setup

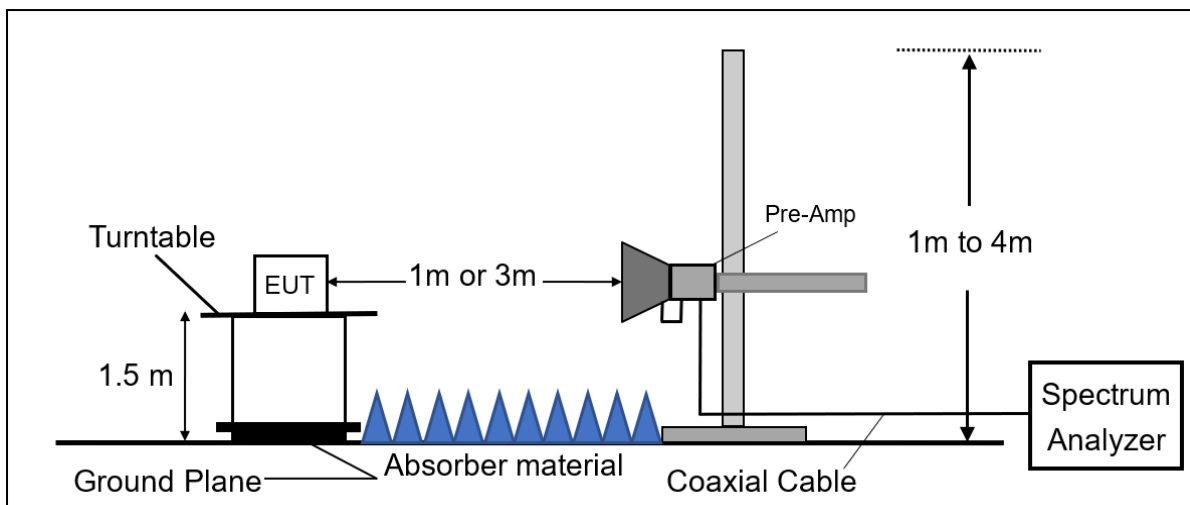
(A) Radiated Emission Test Set-Up, Frequency Below 30MHz.



(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 $20 \cdot \log(\mu V/m)$

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) & RSS-GEN §6.13.2 was not reported.

Pre-scan was done at frequency 5.47 GHz and 5.85 GHz for bandedge measurement of straddle channels 138, 142 and 144 which was 20dB lower than the limit per 15.31(o) & RSS-GEN §6.13.2 was not reported.

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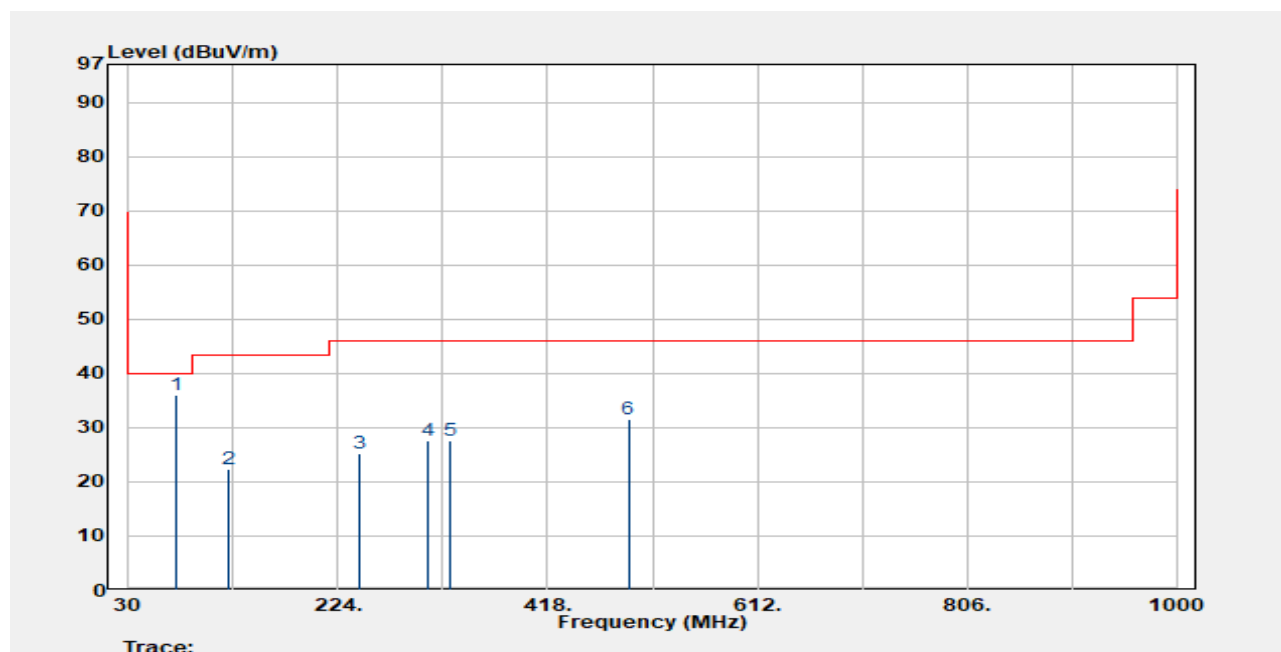
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6.7 Radiated Spurious Emission Measurement Result

6.7.1 Spurious Emission

Report Number :TERF2305001149ER
 Operation Mode :802.11g + 802.11a
 Test Frequency :2437 + 5955 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 2
 Test Date :2023-06-16
 Temp./Humi. :25.8°C/56%
 Antenna Pol. :Vertical
 Engineer :Ricky Chen



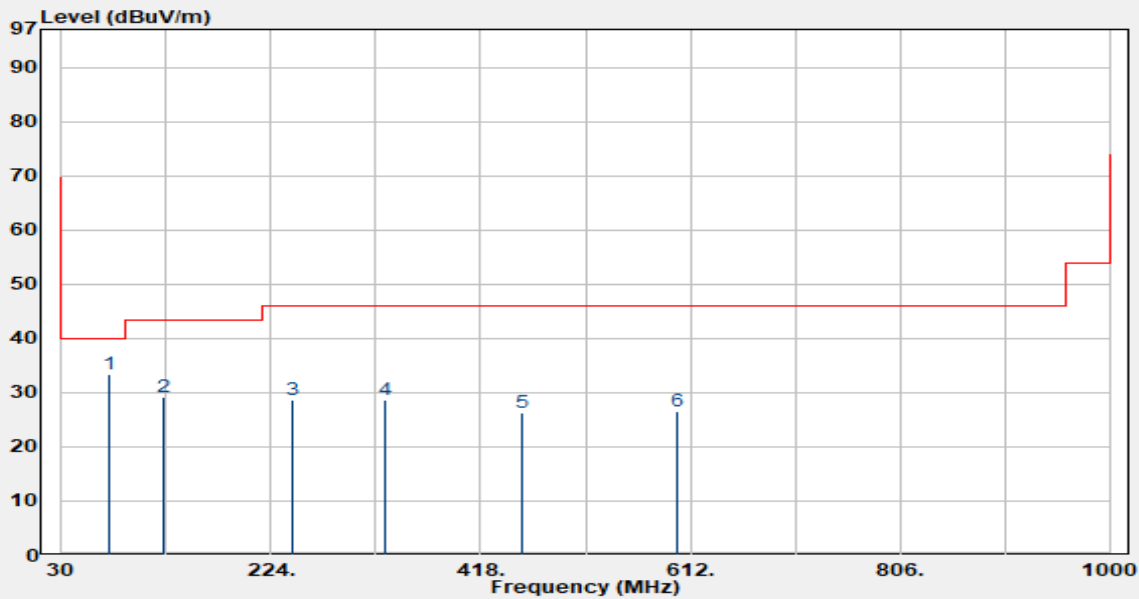
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
74.620	QP	51.92	-15.83	36.09	40.00	-3.91
122.150	Peak	37.42	-14.96	22.46	43.50	-21.04
244.370	Peak	38.99	-13.67	25.32	46.00	-20.68
307.420	Peak	39.73	-12.13	27.60	46.00	-18.40
327.790	Peak	38.95	-11.31	27.64	46.00	-18.36
492.690	Peak	38.93	-7.50	31.43	46.00	-14.57

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Report Number :TERF2305001149ER
 Operation Mode :802.11g + 802.11a
 Test Frequency :2437 + 5955 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 2
 Test Date :2023-06-16
 Temp./Humi. :25.8°C/56%
 Antenna Pol. :Horizontal
 Engineer :Ricky Chen



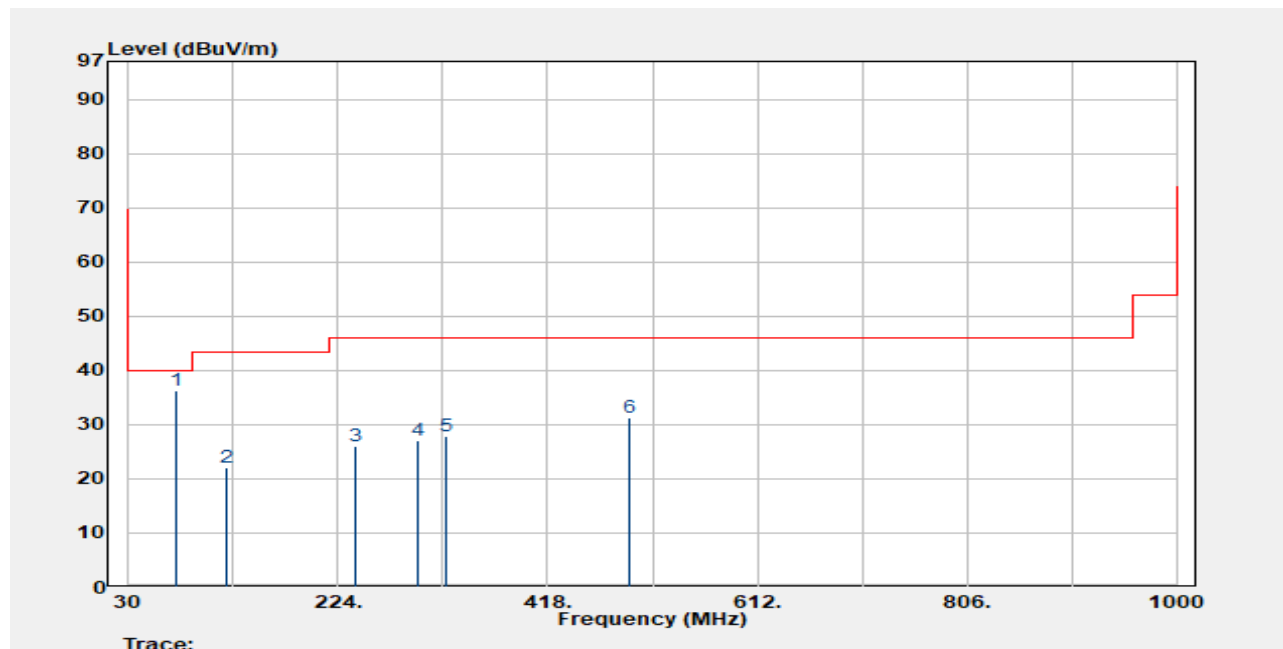
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
73.650	Peak	49.00	-15.64	33.37	40.00	-6.63
125.060	Peak	43.71	-14.63	29.08	43.50	-14.42
243.400	Peak	42.33	-13.73	28.61	46.00	-17.39
329.730	Peak	39.89	-11.28	28.61	46.00	-17.39
455.830	Peak	33.98	-7.61	26.37	46.00	-19.63
600.360	Peak	30.86	-4.38	26.48	46.00	-19.52

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Report Number :TERF2305001149ER
 Operation Mode :802.11g + 802.11a
 Test Frequency :2437 + 5785 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 2
 Test Date :2023-06-16
 Temp./Humi. :25.8°C/56%
 Antenna Pol. :Vertical
 Engineer :Ricky Chen



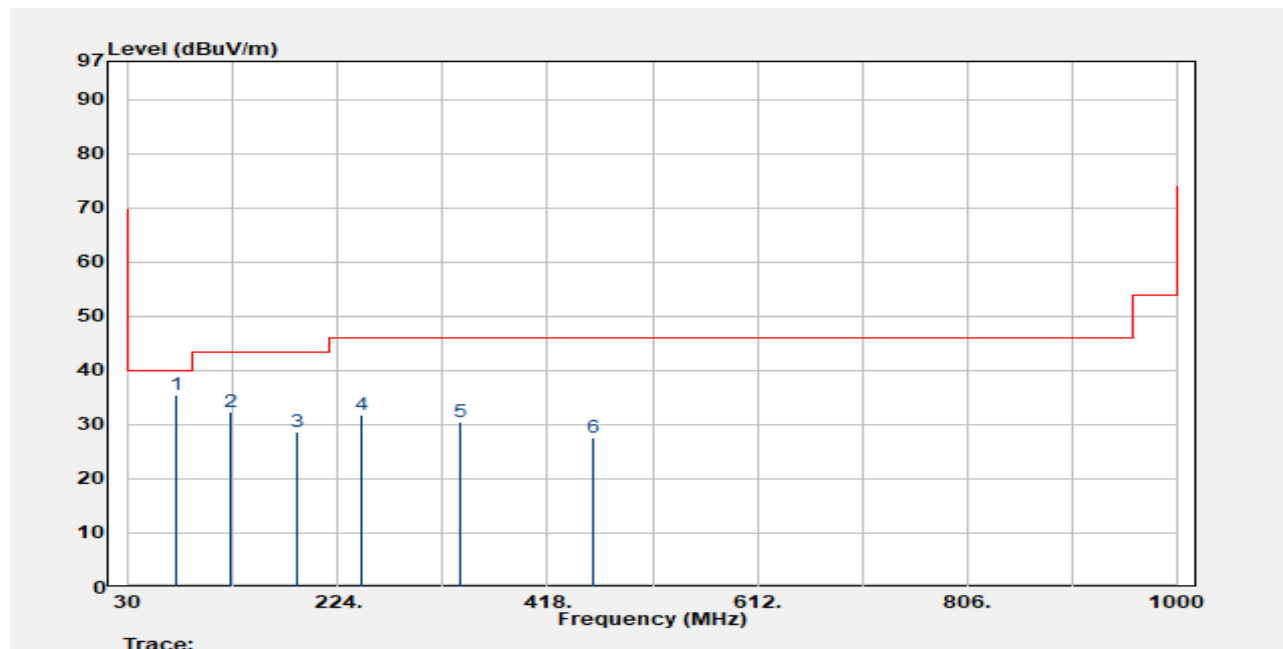
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
73.650	QP	51.83	-15.64	36.19	40.00	-3.81
120.210	Peak	37.09	-15.05	22.05	43.50	-21.45
240.490	Peak	39.93	-13.90	26.03	46.00	-19.97
297.720	Peak	39.18	-12.17	27.01	46.00	-18.99
323.910	Peak	39.26	-11.40	27.85	46.00	-18.15
493.660	Peak	38.93	-7.53	31.40	46.00	-14.60

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Report Number :TERF2305001149ER
 Operation Mode :802.11g + 802.11a
 Test Frequency :2437 + 5785 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 2
 Test Date :2023-06-16
 Temp./Humi. :25.8°C/56%
 Antenna Pol. :Horizontal
 Engineer :Ricky Chen



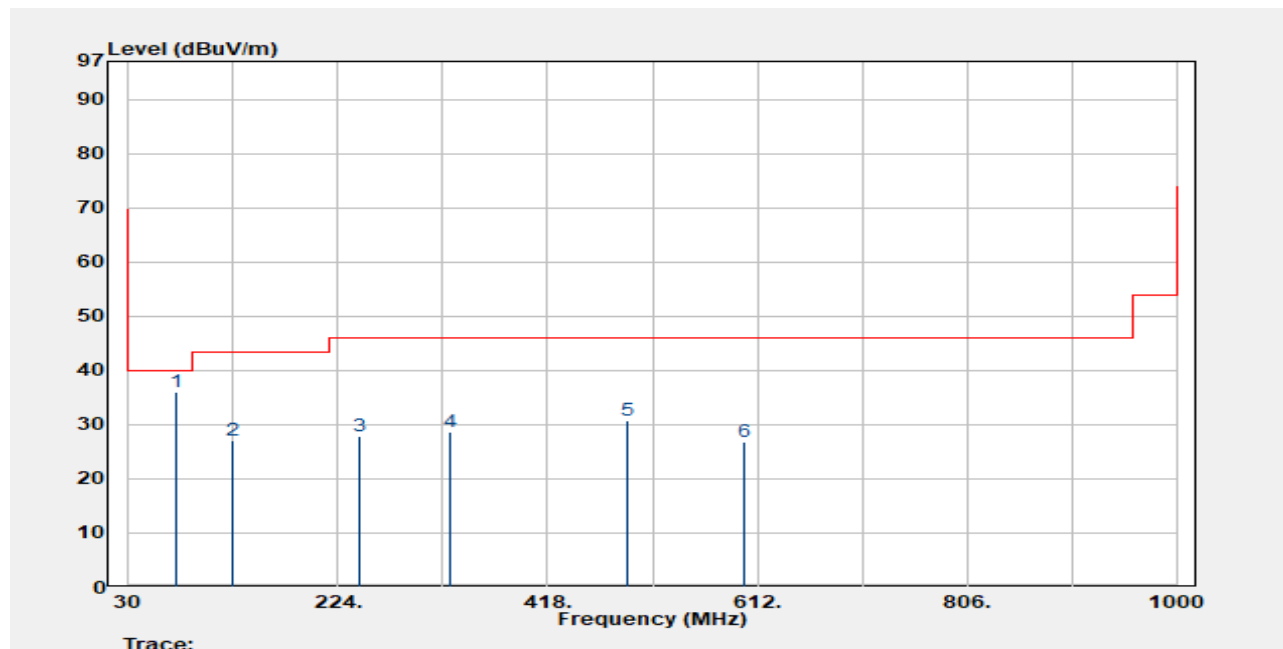
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
73.650	Peak	51.00	-15.64	35.36	40.00	-4.64
124.090	Peak	47.27	-14.92	32.34	43.50	-11.16
186.170	Peak	43.52	-14.95	28.57	43.50	-14.93
245.340	Peak	45.41	-13.63	31.78	46.00	-14.22
336.520	Peak	41.59	-10.97	30.62	46.00	-15.38
460.680	Peak	35.23	-7.60	27.63	46.00	-18.37

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Report Number :TERF2305001149ER
 Operation Mode :BR + 802.11a
 Test Frequency :2402 + 5955 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 2
 Test Date :2023-06-16
 Temp./Humi. :25.8°C/56%
 Antenna Pol. :Vertical
 Engineer :Ricky Chen



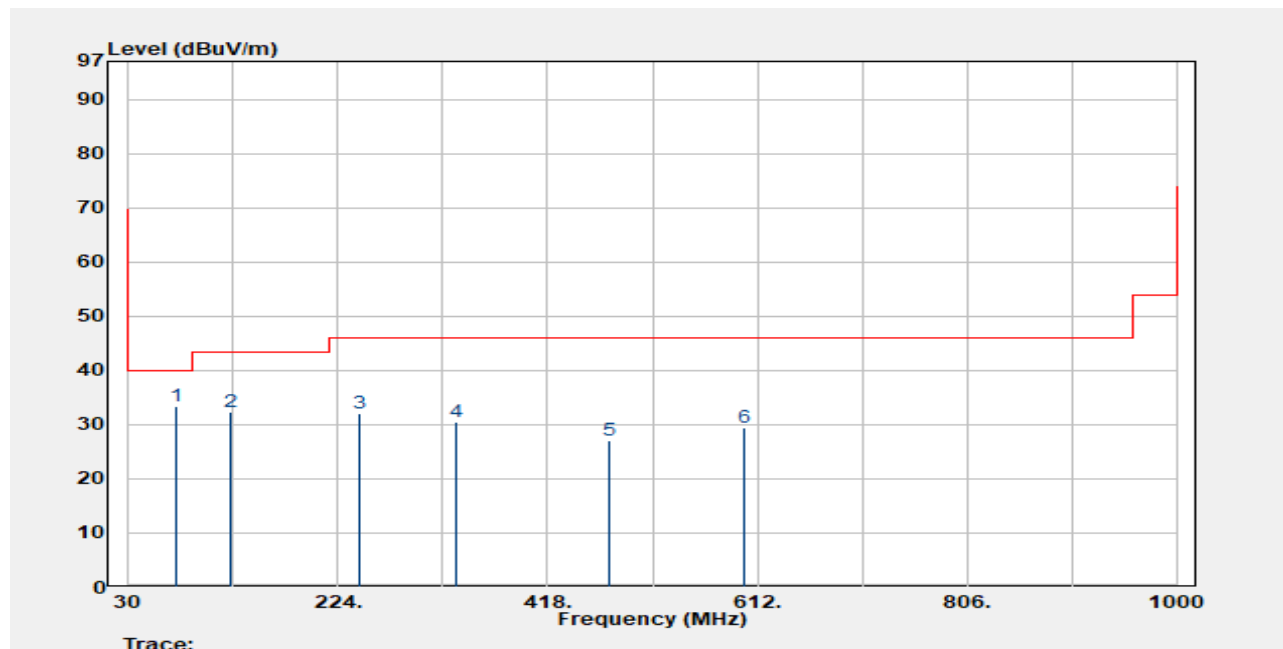
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
74.620	QP	51.93	-15.83	36.10	40.00	-3.90
126.030	Peak	41.74	-14.54	27.19	43.50	-16.31
244.370	Peak	41.47	-13.67	27.81	46.00	-18.19
327.790	Peak	40.04	-11.31	28.72	46.00	-17.28
491.720	Peak	38.34	-7.47	30.86	46.00	-15.14
600.360	Peak	31.28	-4.38	26.90	46.00	-19.10

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Report Number :TERF2305001149ER
 Operation Mode :BR + 802.11a
 Test Frequency :2402 + 5955 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 2
 Test Date :2023-06-16
 Temp./Humi. :25.8°C/56%
 Antenna Pol. :Horizontal
 Engineer :Ricky Chen



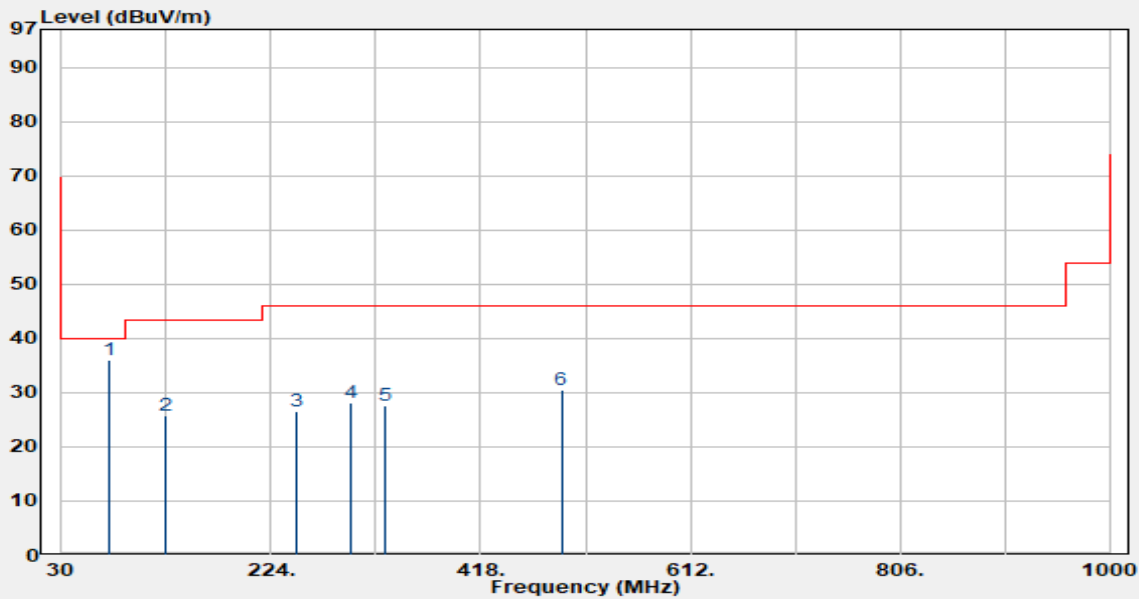
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
74.620	Peak	49.11	-15.83	33.28	40.00	-6.72
125.060	Peak	46.85	-14.63	32.22	43.50	-11.28
243.400	Peak	45.72	-13.73	31.99	46.00	-14.01
333.610	Peak	41.57	-11.01	30.56	46.00	-15.44
475.230	Peak	34.71	-7.57	27.14	46.00	-18.86
600.360	Peak	33.74	-4.38	29.36	46.00	-16.64

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Report Number :TERF2305001149ER
 Operation Mode :BR + 802.11a
 Test Frequency :2402 + 5785 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 2
 Test Date :2023-06-16
 Temp./Humi. :25.8°C/56%
 Antenna Pol. :Vertical
 Engineer :Ricky Chen



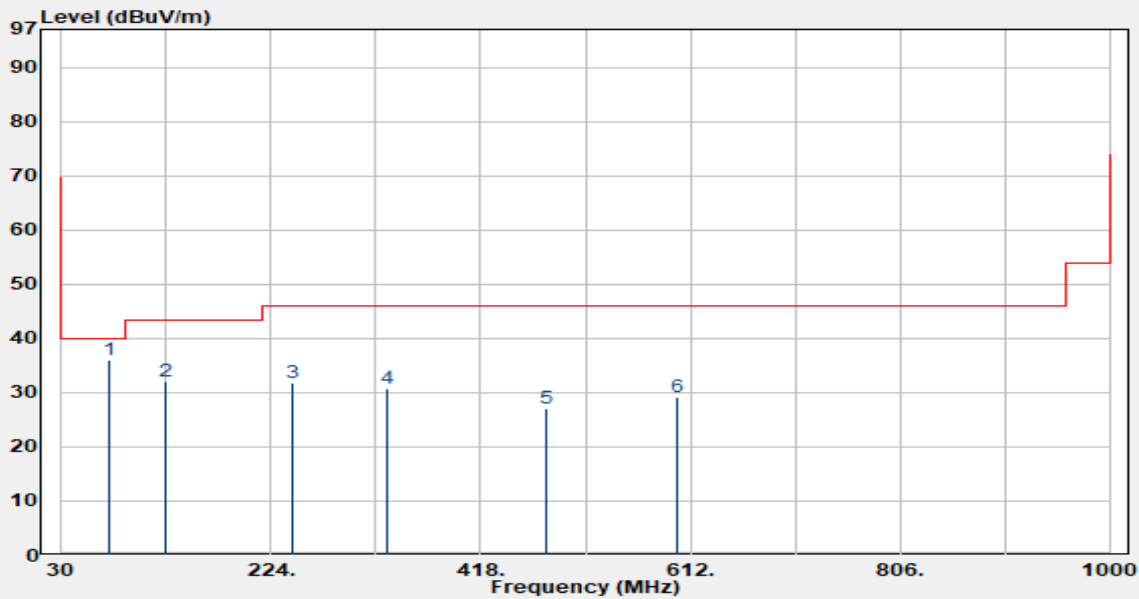
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
74.620	QP	51.77	-15.83	35.94	40.00	-4.06
126.030	Peak	40.26	-14.54	25.72	43.50	-17.78
248.250	Peak	40.30	-13.63	26.67	46.00	-19.33
298.690	Peak	40.20	-12.18	28.02	46.00	-17.98
329.730	Peak	38.94	-11.28	27.66	46.00	-18.34
492.690	Peak	37.92	-7.50	30.42	46.00	-15.58

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Report Number :TERF2305001149ER
Operation Mode :BR + 802.11a
Test Frequency :2402 + 5785 MHz
Test Mode :Tx
EUT Pol :H Plane

Test Site :SAC 2
Test Date :2023-06-16
Temp./Humi. :25.8°C/56%
Antenna Pol. :Horizontal
Engineer :Ricky Chen



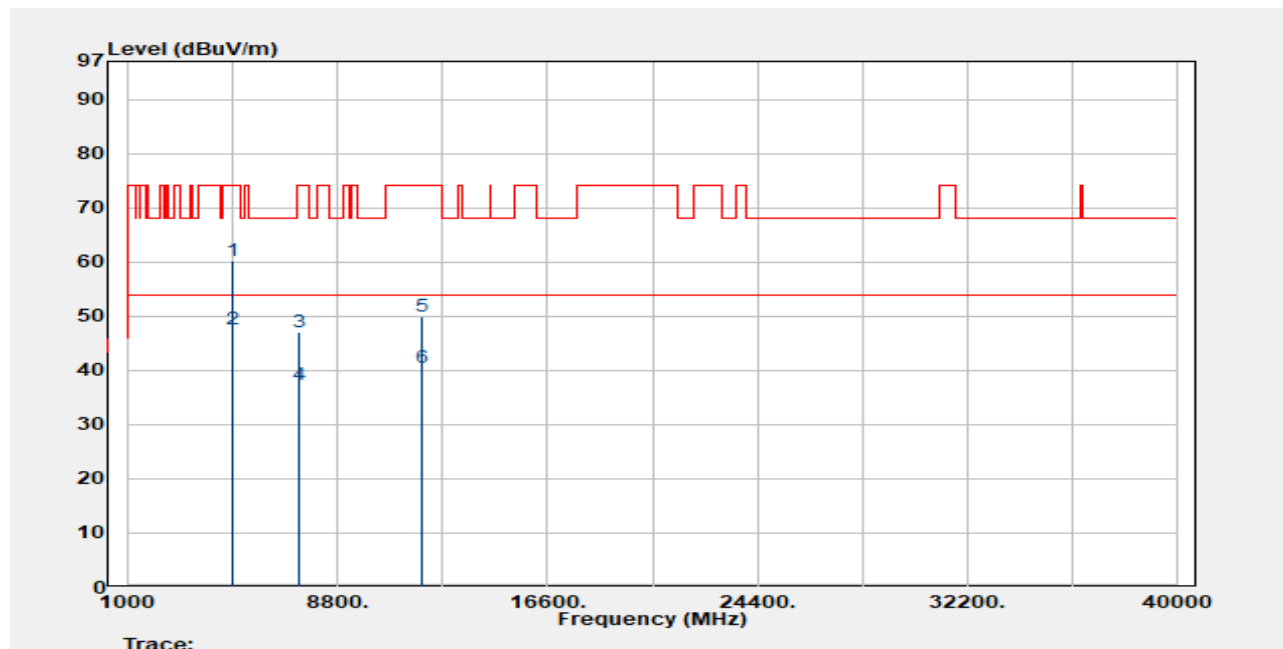
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
74.620	Peak	51.76	-15.83	35.93	40.00	-4.07
126.030	Peak	46.56	-14.54	32.02	43.50	-11.48
243.400	Peak	45.64	-13.73	31.92	46.00	-14.08
330.700	Peak	41.89	-11.22	30.67	46.00	-15.33
478.140	Peak	34.67	-7.53	27.14	46.00	-18.86
600.360	Peak	33.52	-4.38	29.13	46.00	-16.87

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Report Number :TERF2305001149ER
 Operation Mode :802.11g + 802.11a
 Test Frequency :2437 + 5955 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 2
 Test Date :2023-06-16
 Temp./Humi. :25.8°C/56%
 Antenna Pol. :Vertical
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4874.000	Peak	57.53	2.64	60.17	74.00	-13.83
4874.000	Average	45.07	2.64	47.71	54.00	-6.29
7311.000	Peak	39.11	7.84	46.96	74.00	-27.04
7311.000	Average	29.41	7.84	37.25	54.00	-16.75
11910.000	Peak	41.03	8.83	49.87	74.00	-24.13
11910.000	Average	31.53	8.83	40.36	54.00	-13.64

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No.134,Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan/新北市五股區新北產業園區五工路 134 號

台灣檢驗科技股份有限公司

t (886-2) 2299-3279

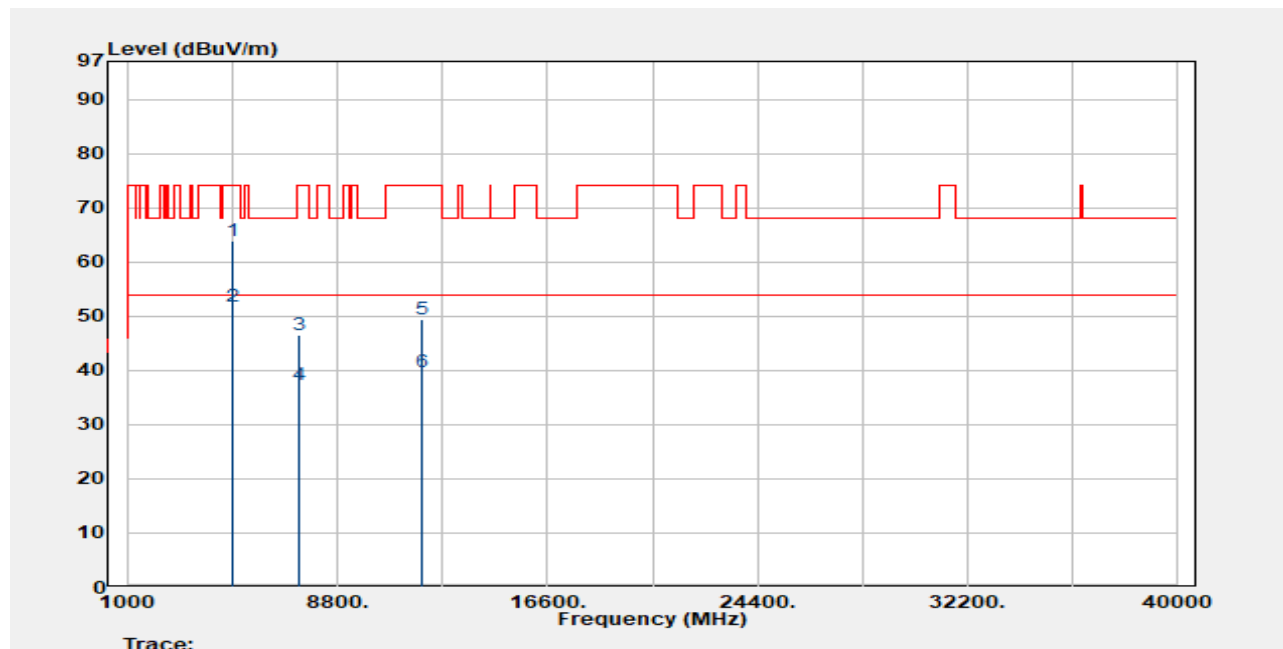
f (886-2) 2298-0488

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Member of SGS Group

Report Number :TERF2305001149ER
 Operation Mode :802.11g + 802.11a
 Test Frequency :2437 + 5955 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 2
 Test Date :2023-06-16
 Temp./Humi. :25.8°C/56%
 Antenna Pol. :Horizontal
 Engineer :Ricky Chen



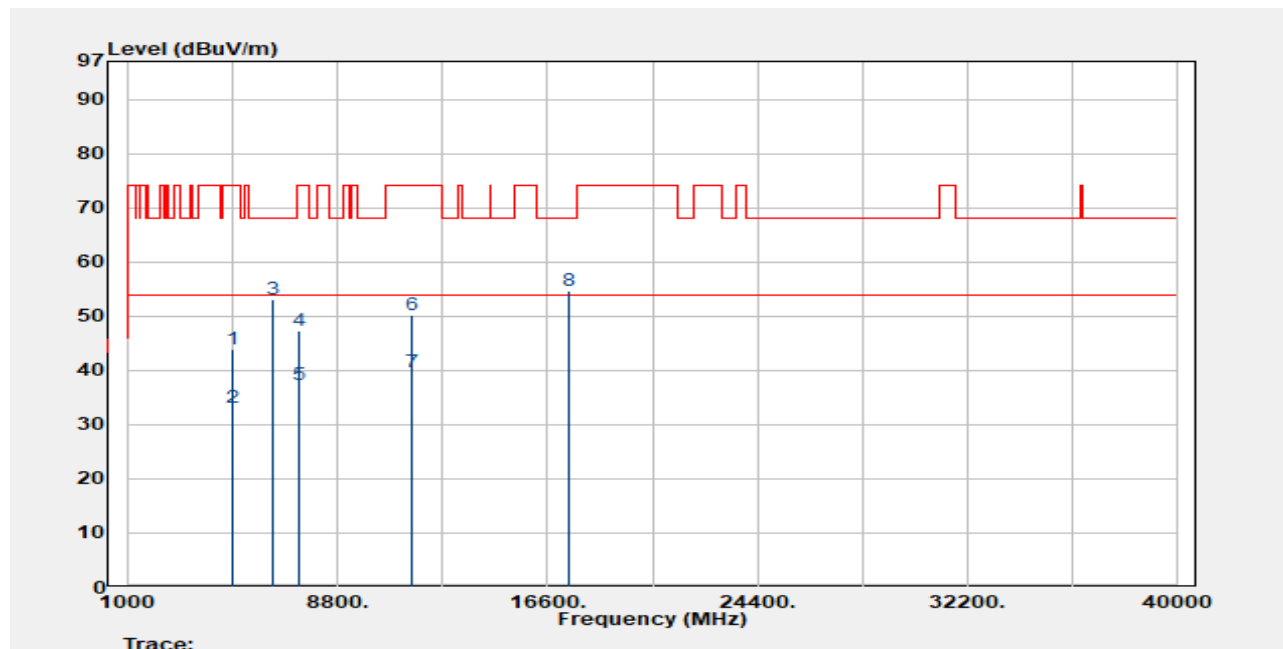
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4874.000	Peak	61.23	2.64	63.87	74.00	-10.13
4874.000	Average	49.11	2.64	51.75	54.00	-2.25
7311.000	Peak	38.67	7.84	46.52	74.00	-27.48
7311.000	Average	29.36	7.84	37.20	54.00	-16.80
11910.000	Peak	40.53	8.83	49.37	74.00	-24.63
11910.000	Average	30.88	8.83	39.71	54.00	-14.29

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Report Number :TERF2305001149ER
 Operation Mode :802.11g + 802.11a
 Test Frequency :2437 + 5785 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 2
 Test Date :2023-06-16
 Temp./Humi. :25.8°C/56%
 Antenna Pol. :Vertical
 Engineer :Ricky Chen



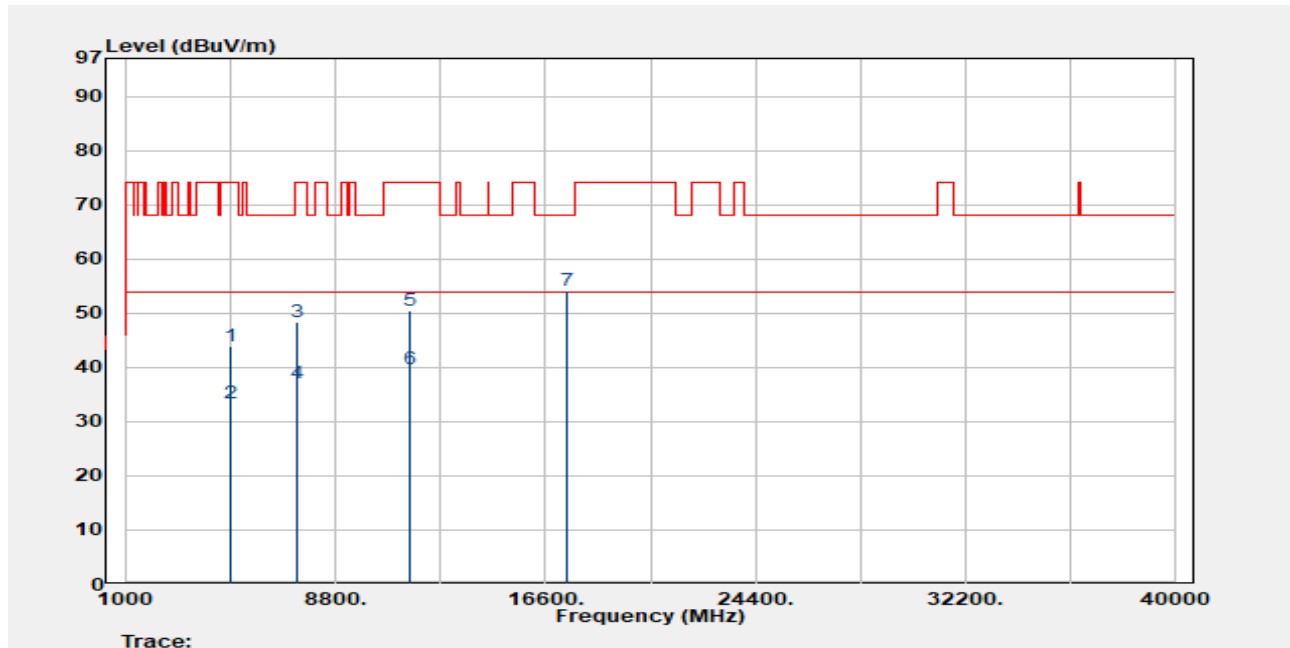
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
4874.000	Peak	41.22	2.64	43.86	74.00	-30.14
4874.000	Average	30.53	2.64	33.17	54.00	-20.83
6397.000	Peak	46.66	6.41	53.07	68.20	-15.13
7311.000	Peak	39.49	7.84	47.34	74.00	-26.66
7311.000	Average	29.42	7.84	37.26	54.00	-16.74
11570.000	Peak	41.52	8.57	50.09	74.00	-23.91
11570.000	Average	31.05	8.57	39.62	54.00	-14.38
17355.000	Peak	45.81	8.81	54.62	68.20	-13.58

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Report Number :TERF2305001149ER
 Operation Mode :802.11g + 802.11a
 Test Frequency :2437 + 5785 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 2
 Test Date :2023-06-16
 Temp./Humi. :25.8°C/56%
 Antenna Pol. :Horizontal
 Engineer :Ricky Chen



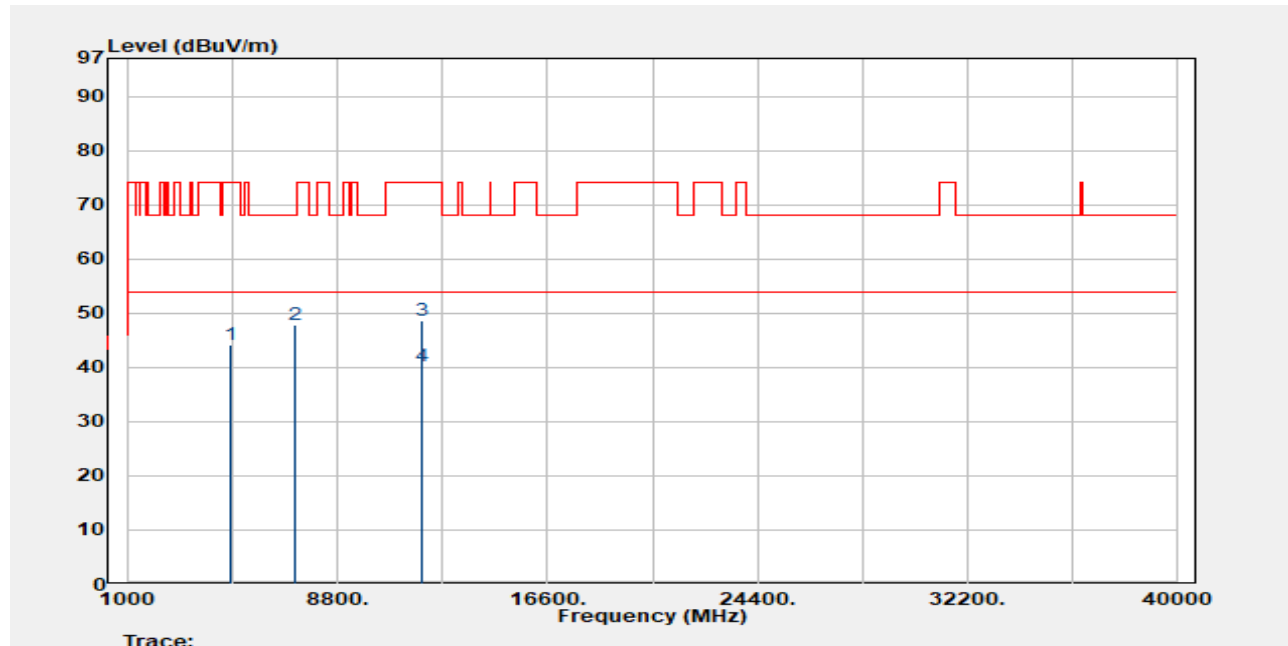
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4874.000	Peak	41.17	2.64	43.81	74.00	-30.19
4874.000	Average	30.66	2.64	33.30	54.00	-20.70
7311.000	Peak	40.62	7.84	48.47	74.00	-25.53
7311.000	Average	29.32	7.84	37.16	54.00	-16.84
11570.000	Peak	41.85	8.57	50.43	74.00	-23.57
11570.000	Average	31.04	8.57	39.61	54.00	-14.39
17355.000	Peak	45.39	8.81	54.20	68.20	-14.00

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Report Number :TERF2305001149ER
 Operation Mode :BR + 802.11a
 Test Frequency :2402 + 5955 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 2
 Test Date :2023-06-16
 Temp./Humi. :25.8°C/56%
 Antenna Pol. :Vertical
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4804.000	Peak	41.78	2.35	44.13	74.00	-29.87
7206.000	Peak	39.93	7.80	47.73	68.20	-20.47
11910.000	Peak	39.78	8.83	48.61	74.00	-25.39
11910.000	Average	31.39	8.83	40.22	54.00	-13.78

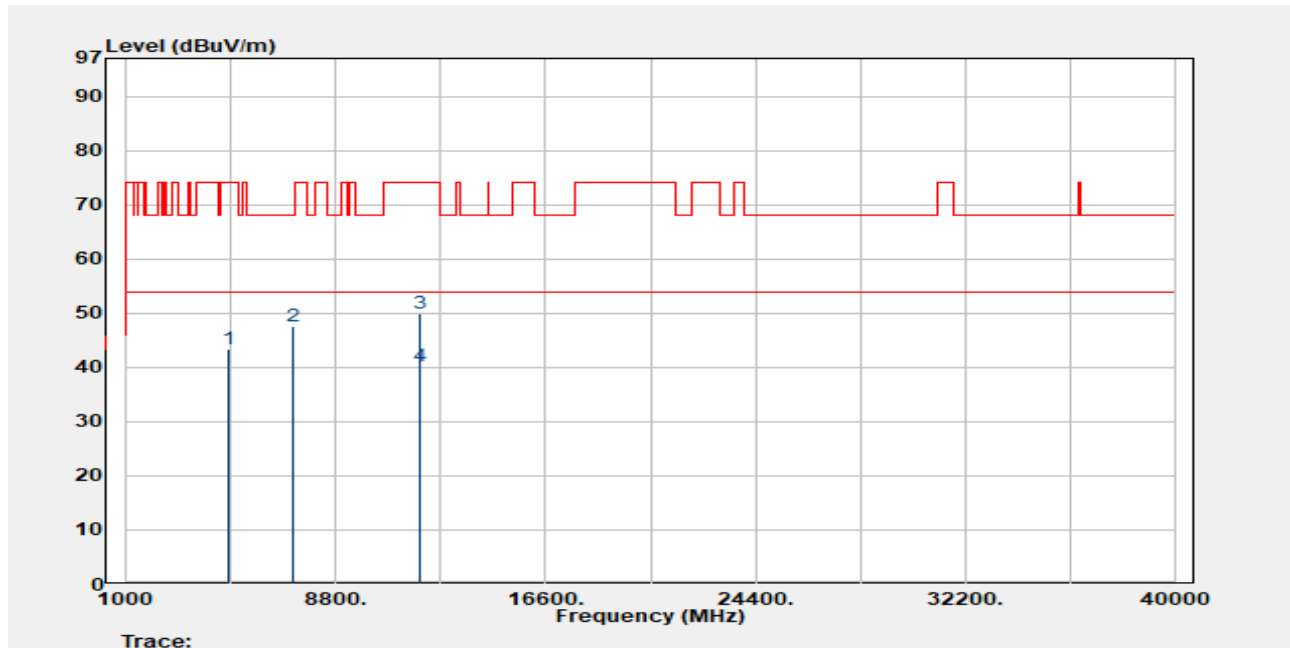
Freq. (MHz)	Detector	Peak Actual FS (dBμV/m)	Duty Cycle Factor (dB)	Average Value (dBuV/m)	Average Limit@3m (dBuV/m)	Margin (dB)
4804.000	Average	44.13	-24.73	19.40	54.00	-34.60

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Report Number :TERF2305001149ER
 Operation Mode :BR + 802.11a
 Test Frequency :2402 + 5955 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 2
 Test Date :2023-06-16
 Temp./Humi. :25.8°C/56%
 Antenna Pol. :Horizontal
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4804.000	Peak	40.94	2.35	43.29	74.00	-30.71
7206.000	Peak	39.73	7.80	47.53	68.20	-20.67
11910.000	Peak	41.10	8.83	49.93	74.00	-24.07
11910.000	Average	31.29	8.83	40.12	54.00	-13.88

Freq. (MHz)	Detector	Peak Actual FS (dBμV/m)	Duty Cycle Factor (dB)	Average Value (dBuV/m)	Average Limit@3m (dBuV/m)	Margin (dB)
4804.000	Average	43.29	-24.73	18.56	54.00	-35.44

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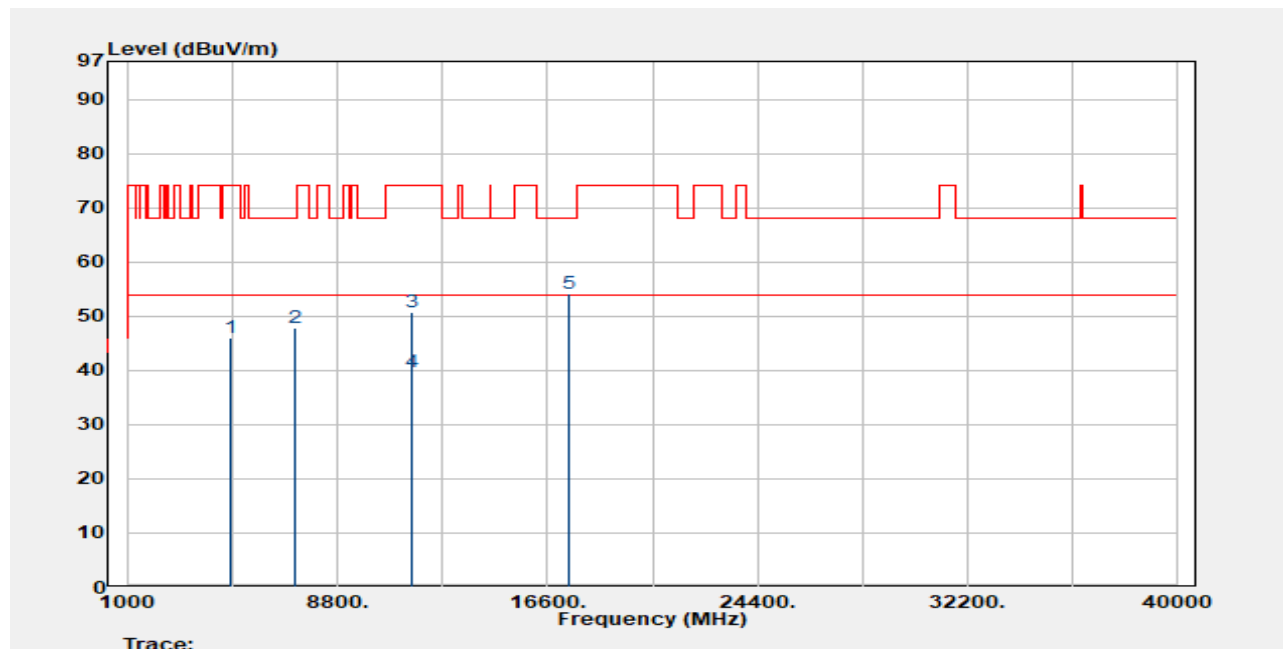
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Member of SGS Group

Report Number :TERF2305001149ER
 Operation Mode :BR + 802.11a
 Test Frequency :2402 + 5785 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 2
 Test Date :2023-06-16
 Temp./Humi. :25.8°C/56%
 Antenna Pol. :Vertical
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4804.000	Peak	43.76	2.35	46.11	74.00	-27.89
7206.000	Peak	40.10	7.80	47.91	68.20	-20.29
11570.000	Peak	42.03	8.57	50.61	74.00	-23.39
11570.000	Average	31.04	8.57	39.61	54.00	-14.39
17355.000	Peak	45.35	8.81	54.16	68.20	-14.04

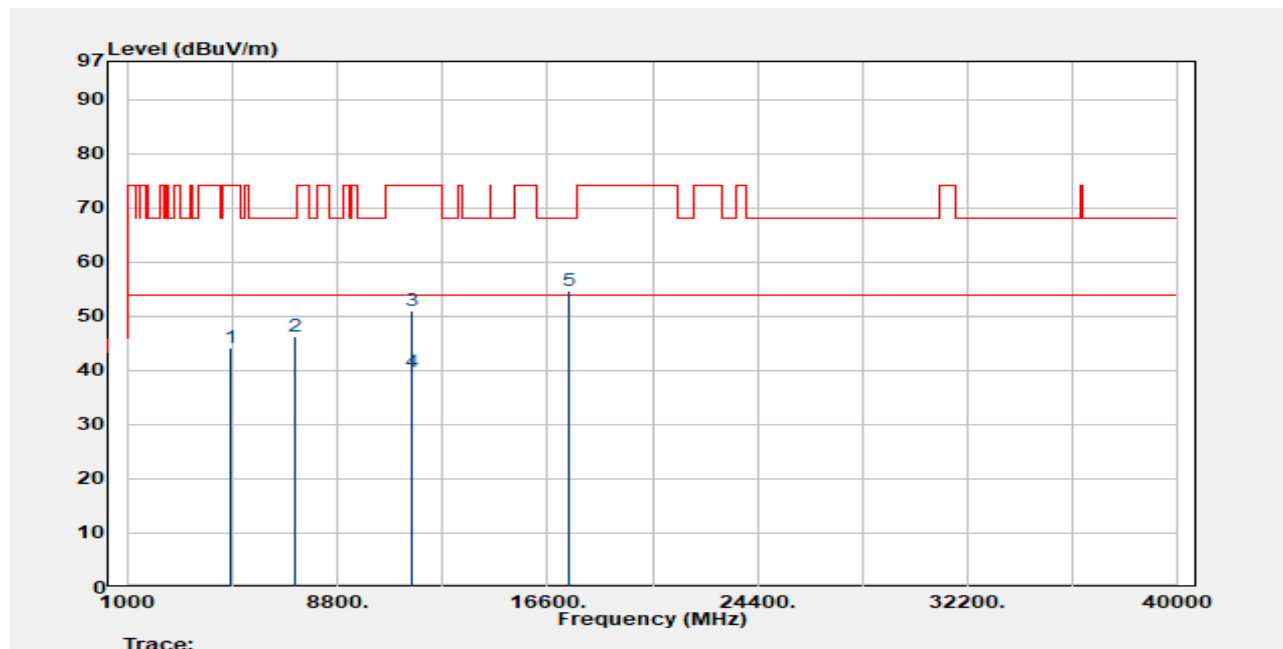
Freq. (MHz)	Detector	Peak Actual FS (dBμV/m)	Duty Cycle Factor (dB)	Average Value (dBuV/m)	Average Limit@3m (dBuV/m)	Margin (dB)
4804.000	Average	46.11	-24.73	21.38	54.00	-32.62

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Report Number :TERF2305001149ER
 Operation Mode :BR + 802.11a
 Test Frequency :2402 + 5785 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 2
 Test Date :2023-06-16
 Temp./Humi. :25.8°C/56%
 Antenna Pol. :Horizontal
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4804.000	Peak	41.93	2.35	44.28	74.00	-29.72
7206.000	Peak	38.51	7.80	46.31	68.20	-21.89
11570.000	Peak	42.42	8.57	51.00	74.00	-23.00
11570.000	Average	31.08	8.57	39.65	54.00	-14.35
17355.000	Peak	45.83	8.81	54.64	68.20	-13.56

Freq. (MHz)	Detector	Peak Actual FS (dBμV/m)	Duty Cycle Factor (dB)	Average Value (dBuV/m)	Average Limit@3m (dBuV/m)	Margin (dB)
4804.000	Average	44.28	-24.73	19.55	54.00	-34.45

~ End of Report ~

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