

**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/2021/70040

FCC ID HLZQSIP7180

Issue Date: Sep. 07, 2021

Date of Test: Jul. 22, 2021 ~ Aug. 20, 2021

Date of EUT Received: Jul. 09, 2021

CHUN-CHIEH, CHEN
Approved By

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 C63.10:2013 and the energy emitted by the sample EUT comply with FCC rule part §15.247.

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
ER/2021/70040	Rev.00	Original.	Sep. 07, 2021	Yi-Shan Tsai

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1 GENERAL 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

1.2 RF Specification

Radio Technology:	Bluetooth LE Dual mode
Frequency Range:	2402 – 2480MHz
Channel number:	40 channels
Modulation type:	GFSK
Transmit Power:	BLE 1M: 3.59 dBm BLE 2M: 2.85 dBm

1.3 Antenna Designation

Antenna Type	Supplier	Main / Aux	Antenna Part No.	Freq. (MHz)	Peak Antenna Gain (dBi)	Worst Antenna Gain
PIFA	WNC	Main	DQ6A15GC700	2402~2480	2.08	V

Note:

1. Pre-scanned was done on the above antennas, measurements were demonstrated by using the antenna with the highest gain as the worst case scenarios.
2. Antenna information is provided by the applicant.

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1.4 Test Methodology of Applied Standards

FCC Part 15, Subpart C §15.247
 FCC KDB 558074 D01 DTS Meas. Guidance v05r02
 ANSI C63.10:2013

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		
		Conducted 7		
	Conducted 8			
	Conducted 9			
	Conducted 10			
	No.2, Keji 1st Rd., Guishan District, Taoyuan City, Taiwan 333	Conduction A	TW0028	
		SAC C		
		SAC D		
		SAC E		
		Conducted A		
		Conducted B		
		Conducted C		
		Conducted D		
		Conducted E		
Conducted F				
Conducted G				
Conducted H				
Conducted I				
Conducted J				
Conducted TS8997				

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

There are no special accessories used while test was conducted.

1.7 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 Conducted Test (RF)

The active antenna port of the unlicensed wireless device is connected to the spectrum analyzer with attenuator to protect the instrumentation. If a second antenna port is available, it is tested at one operating frequency, with other port(s) appropriately terminated, to verify it has similar output characteristics as the fully tested port.

2.3.2 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*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.

2.4.2 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.

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2.5 Configuration of Tested System

Fig. 2-1 Radiated Emission



Fig. 2-2 Conducted (Antenna Port) Configuration



Table 2-1 Equipment Used in Tested System

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Data Cable	Power Cord
1	Bluetooth Test Software	N/A	N/A	N/A	N/A	N/A

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3 SUMMARY OF TEST RESULTS

FCC Rules	Description Of Test	Result
§15.247(b) (3)	Peak Output Power	Compliant
§15.247(d) §15.205	Radiated Band Edge	Compliant
§15.247(d) §15.209	Radiated Spurious Emission	Compliant

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4 DESCRIPTION OF TEST MODES

4.1 Operated in 2400 ~ 2483.5MHz Band

40 channels are provided for Bluetooth LE

ITEM	FREQUENCY	ITEM	FREQUENCY	ITEM	FREQUENCY
1	2402 MHz	15	2430 MHz	29	2458 MHz
2	2404 MHz	16	2432 MHz	30	2460 MHz
3	2406 MHz	17	2434 MHz	31	2462 MHz
4	2408 MHz	18	2436 MHz	32	2464 MHz
5	2410 MHz	19	2438 MHz	33	2466 MHz
6	2412 MHz	20	2440 MHz	34	2468 MHz
7	2414 MHz	21	2442 MHz	35	2470 MHz
8	2416MHz	22	2444 MHz	36	2472 MHz
9	2418 MHz	23	2446 MHz	37	2474 MHz
10	2420 MHz	24	2448 MHz	38	2476 MHz
11	2422 MHz	25	2450 MHz	39	2478 MHz
12	2424 MHz	26	2452 MHz	40	2480 MHz
13	2426 MHz	27	2454 MHz		
14	2428 MHz	28	2456 MHz		

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4.2 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 and receiving mode is programmed.
3. Investigation has been done on all the possible configurations for searching the worst case.

MODE	AVAILABLE FREQUENCY (MHz)	TESTED FREQUENCY (MHz)	MODULATION	DATA RATE (Mbps)
RADIATED EMISSION TEST (ABOVE 1 GHz)				
Bluetooth LE	2402 to 2480	2402, 2442, 2480	GFSK	1
Bluetooth LE	2402 to 2480	2402, 2442, 2480	GFSK	2
<p>Note: The field strength of radiation emission was measured as NB Plane for channel Low, Mid and High.</p>				

ANTENNA PORT CONDUCTED MEASUREMENT				
MODE	AVAILABLE FREQUENCY (MHz)	TESTED FREQUENCY (MHz)	MODULATION	DATA RATE (Mbps)
Bluetooth LE	2402 to 2480	2402, 2442, 2480	GFSK	1
Bluetooth LE	2402 to 2480	2402, 2442, 2480	GFSK	2

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5 MEASUREMENT UNCERTAINTY

Test Items	Uncertainty
Peak Output Power	+/- 1 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

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 PEAK OUTPUT POWER MEASUREMENT

6.1 Standard Applicable:

For systems using digital modulation in the 2400-2483.5 MHz bands, the limit for peak output power is 1Watt.

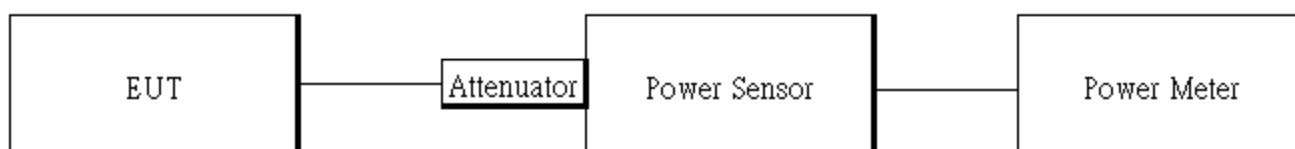
If the transmitting antenna of directional gain greater than 6dBi are used the peak output power from the intentional radiator shall be reduced below the above stated value by the amount in dB that the directional gain of the Antenna exceeds 6dBi.

In case of point-to-point operation, the limit has to be reduced by 1dB for every 3dB that the directional gain of Antenna exceeds 6dBi.

6.2 Measurement Equipment Used:

Conducted Emission Test Site: Conducted 4					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EXA Spectrum Analyzer	Agilent	N9010A	MY54200716	10/20/2020	10/19/2021
Power Meter	Anritsu	ML2496A	1804001	03/02/2021	03/01/2022
Power Sensor	Anritsu	MA2411B	1726104	03/02/2021	03/01/2022
Power Sensor	Anritsu	MA2411B	1726107	03/02/2021	03/01/2022
DC Block	Mini-Circuits	BLK-18-S+	1	12/16/2020	12/15/2021

6.3 Test Set-up:



6.4 Measurement Procedure:

1. Place the EUT on the table and set it in transmitting mode.
2. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance.
3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the power meter.
4. Record the max. Reading as observed from Power Meter.
5. Repeat above procedures until all test default channel measured was complete.

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6.5 Output Power:

6.5.1 Peak & Avg

BLE mode:

CH	Frequency (MHz)	Peak Power Output (dBm)	Required Limit (dBm)
Low	2402	2.24	30
Mid	2442	3.59	30
High	2480	2.65	30
CH	Frequency (MHz)	Max. Avg. Output include tune up tolerance Power (dBm)	Required Limit (dBm)
Low	2402	1.76	30
Mid	2442	3.45	30
High	2480	2.44	30

**Note: Measured by power meter, cable loss dB + Duty cycle factor has been offseted power meter for Avg. power and cable loss has been offseted for Peak power*

BLE 2M mode:

CH	Frequency (MHz)	Peak Power Output (dBm)	Required Limit (dBm)
Low	2402	1.47	30
Mid	2442	2.85	30
High	2480	2.00	30
BLE 2M mode:			
CH	Frequency (MHz)	Max. Avg. Output include tune up tolerance Power (dBm)	Required Limit (dBm)
Low	2402	1.29	30
Mid	2442	2.69	30
High	2480	1.80	30

**Note: Measured by power meter, cable loss dB + Duty cycle factor has been offseted to the power meter for Avg. power and cable loss has been offseted for Peak power measurement.*

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7 SPURIOUS EMISSION MEASUREMENT

7.1 Standard Applicable

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. In addition, radiated emissions which fall in the restricted bands must also comply with the §15.209 limit as below.

And according to §15.33(a) (1) for an intentional radiator operates below 10GHz, the frequency range of measurements: to the tenth harmonic of the highest fundamental frequency or to 40GHz, whichever is lower.

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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7.2 Measurement Equipment Used

Radiated Emission Test Site: SAC 3					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Horn Antenna	SCHWARZ-BECK	BBHA9170	184	12/11/2020	12/10/2021
Horn Antenna	SCHWARZ-BECK	BBHA9120D	1441	10/16/2020	10/15/2021
Bi-log Antenna	SCHWARZ-BECK	VULB9168	300	11/18/2020	11/17/2021
Loop Antenna	ETS.LIND-GREN	6502	148045	10/19/2020	10/18/2021
PXA Spectrum Analyzer	Agilent	N9030A	MY53120760	04/27/2021	04/26/2022
EMI Test Receiver	R&S	ESCI	101338	03/22/2021	03/21/2022
Pre-Amplifier	HP	8449B	3008A00578	12/16/2020	12/15/2021
Pre-Amplifier	EMC Instruments	EMC184045B	980135	12/16/2020	12/15/2021
Pre-Amplifier	HP	8447D	2944A07676	12/16/2020	12/15/2021
Attenuator	Mini-Circuit	BW-S10W2+	4	12/16/2020	12/15/2021
Filter 2400-2483.5 MHz	EWT	EWT-14-0166	M1	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 102	MY2630/2	12/16/2020	12/15/2021
Coaxial Cable	Huber Suhner	SUCOFLEX 102	MY22962/2	12/16/2020	12/15/2021
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.

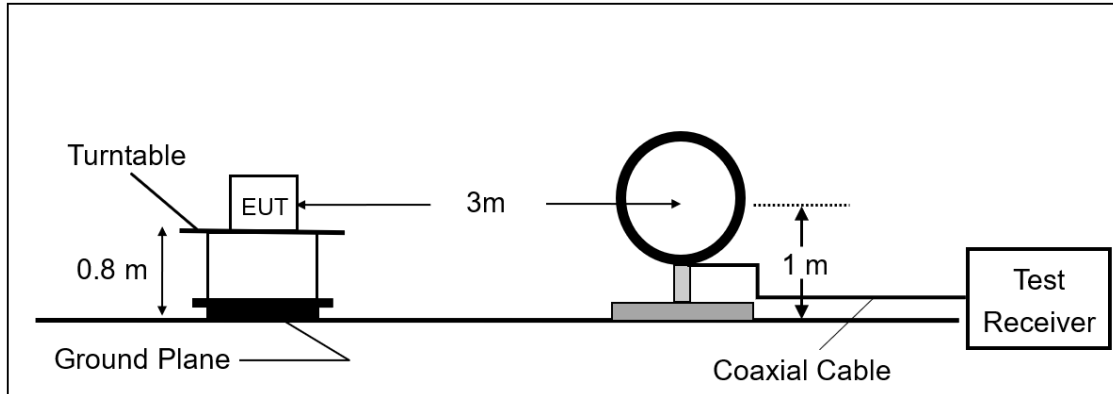
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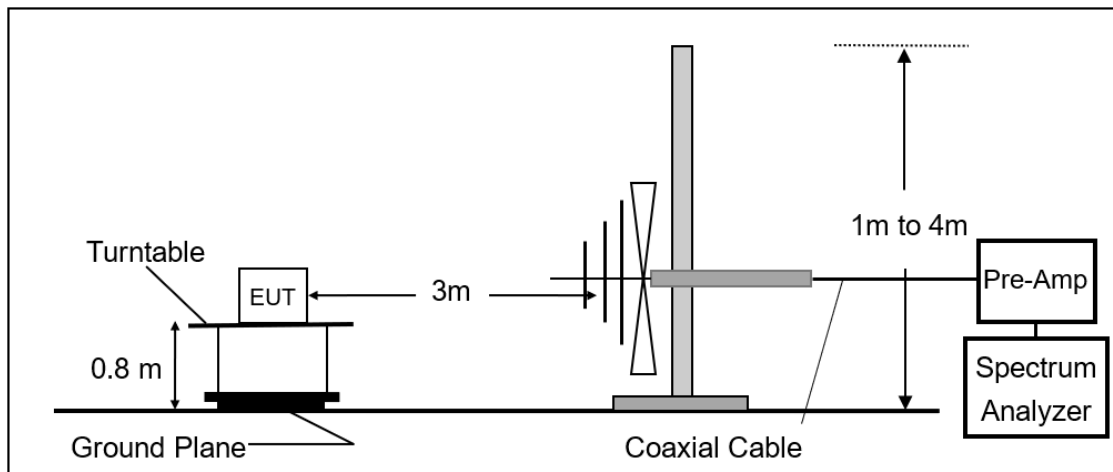
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7.3 Test SET-UP

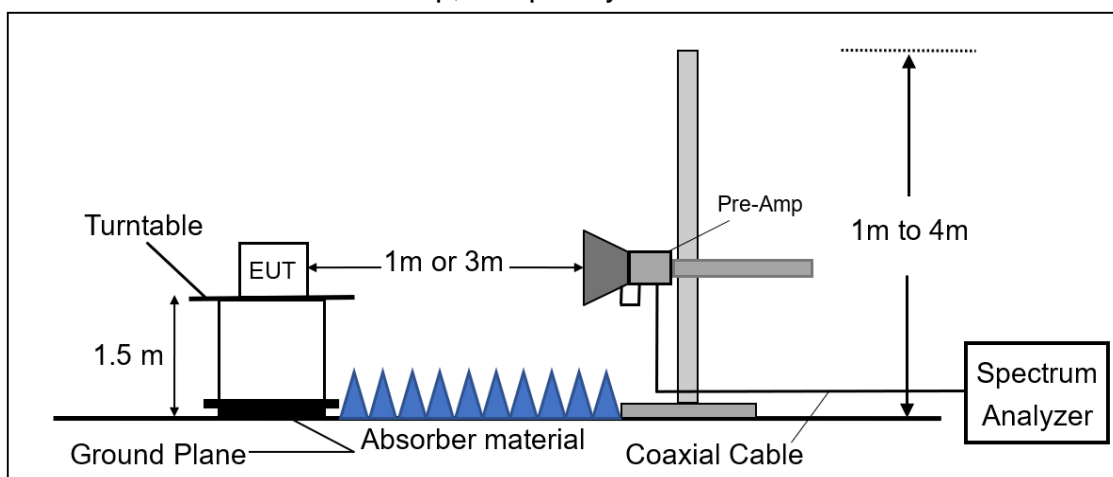
(A) Radiated Emission Test Set-Up, Frequency Below 30MHz.



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



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



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7.4 Measurement Procedure

1. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance.
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 Peak Detector 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 Detector 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. On spectrum, change spectrum mode in linear display mode, and reduce VBW = 10Hz if average reading is measured.
12. Repeat above procedures until all default test channel measured were complete.

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7.5 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*log(uV/m)*

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

Factor(dB) = Antenna Factor(dBuV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

7.6 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.

7.7 Measurement Result:

Note: Refer to next page spectrum analyzer data chart and tabular data sheets.

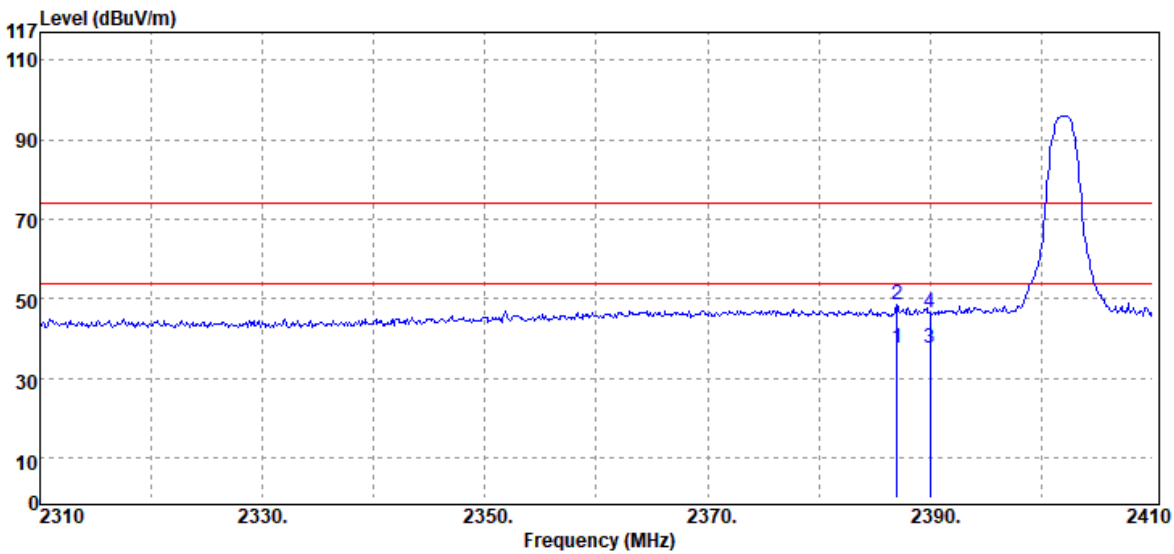
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7.7.1 Radiated Band Edge Measurement Result

Report Number	:ER-2021-70040	Test Site	:SAC 3
Operation Mode	:BLE(1M)	Test Date	:2021-08-05
Test Frequency	:2402 MHz	Temp./Humi.	:27.1/48
Test Mode	:Bandedge CH Low	Antenna Pol.	:VERTICAL
EUT Pol	:NB Plane	Engineer	:Ricky Chen



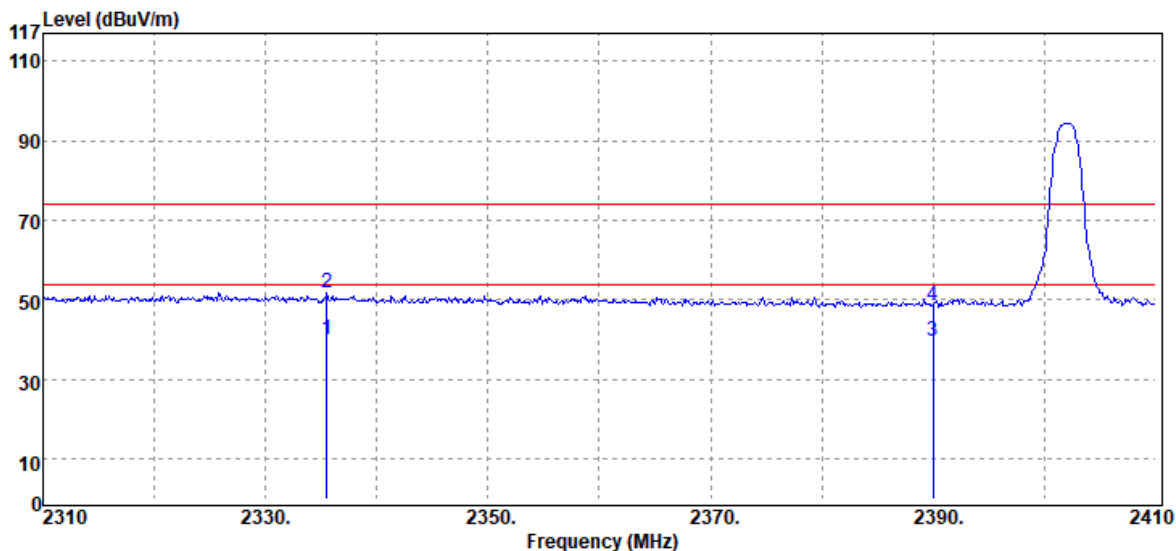
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
2387.00	Average	36.94	0.77	37.71	54.00	-16.29
2387.00	Peak	47.82	0.77	48.59	74.00	-25.41
2390.00	Average	36.92	0.76	37.68	54.00	-16.32
2390.00	Peak	45.71	0.76	46.47	74.00	-27.53

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Report Number	:ER-2021-70040	Test Site	:SAC 3
Operation Mode	:BLE(1M)	Test Date	:2021-08-05
Test Frequency	:2402 MHz	Temp./Humi.	:27.1/48
Test Mode	:Bandedge CH Low	Antenna Pol.	:HORIZONTAL
EUT Pol	:NB Plane	Engineer	:Ricky Chen



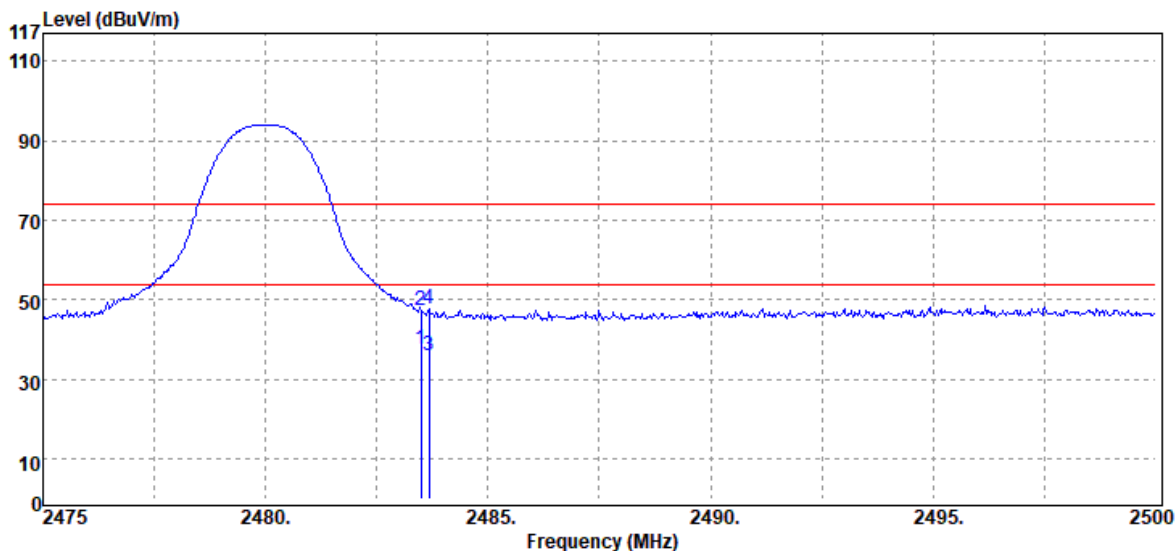
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2335.50	Average	39.19	0.83	40.02	54.00	-13.98
2335.50	Peak	51.04	0.83	51.87	74.00	-22.13
2390.00	Average	38.83	0.76	39.59	54.00	-14.41
2390.00	Peak	47.94	0.76	48.70	74.00	-25.30

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Report Number	:ER-2021-70040	Test Site	:SAC 3
Operation Mode	:BLE(1M)	Test Date	:2021-08-05
Test Frequency	:2480 MHz	Temp./Humi.	:27.1/48
Test Mode	:Bandedge CH High	Antenna Pol.	:VERTICAL
EUT Pol	:NB Plane	Engineer	:Ricky Chen



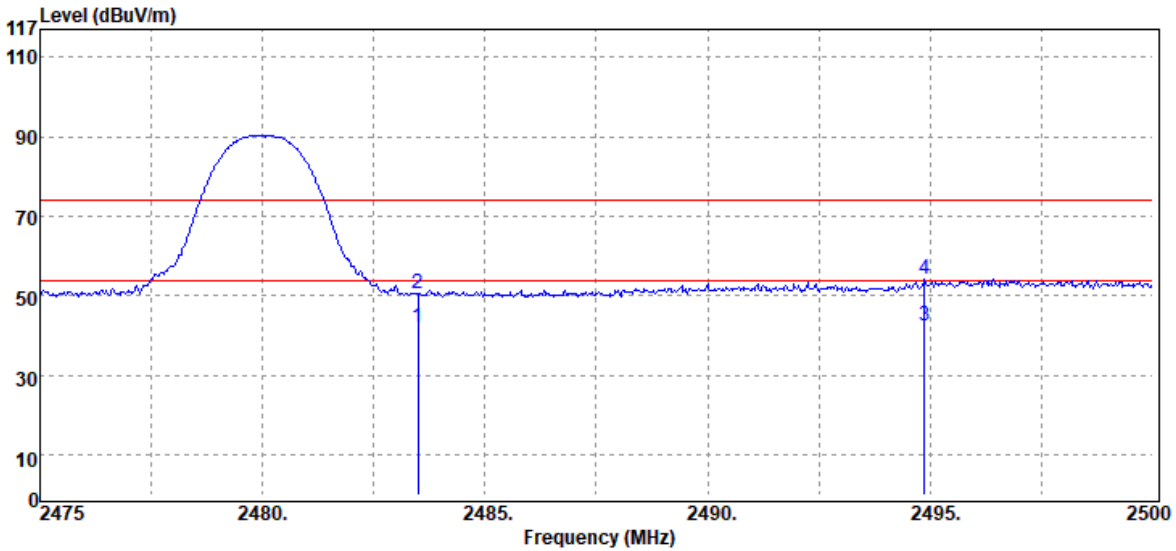
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2483.50	Average	36.96	0.54	37.50	54.00	-16.50
2483.50	Peak	46.64	0.54	47.18	74.00	-26.82
2483.68	Average	35.69	0.54	36.23	54.00	-17.77
2483.68	Peak	47.09	0.54	47.63	74.00	-26.37

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Report Number	:ER-2021-70040	Test Site	:SAC 3
Operation Mode	:BLE(1M)	Test Date	:2021-08-05
Test Frequency	:2480 MHz	Temp./Humi.	:27.1/48
Test Mode	:Bandedge CH High	Antenna Pol.	:HORIZONTAL
EUT Pol	:NB Plane	Engineer	:Ricky Chen



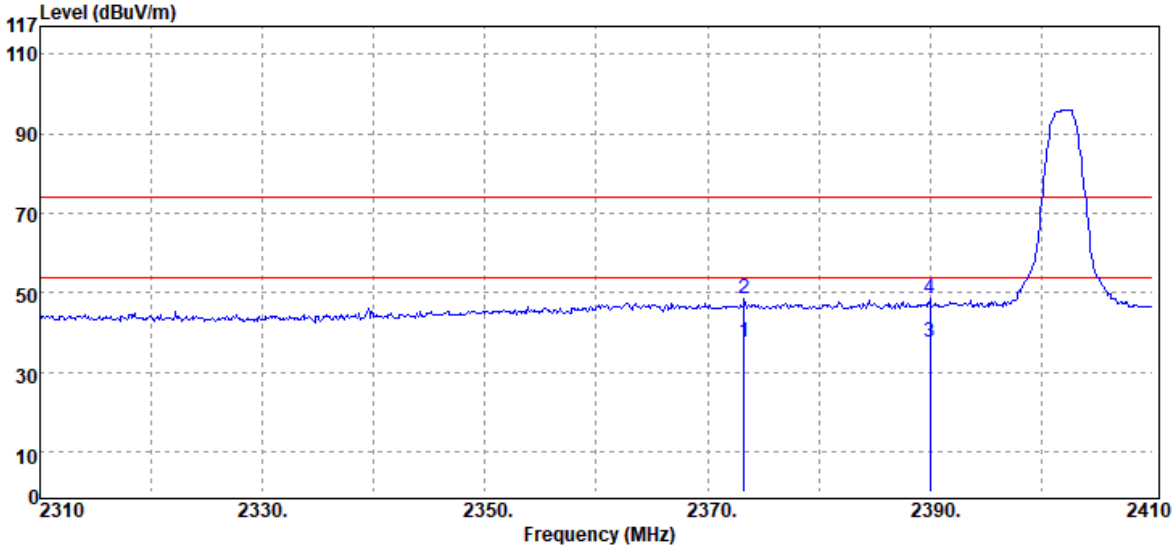
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2483.50	Average	41.52	0.54	42.06	54.00	-11.94
2483.50	Peak	49.87	0.54	50.41	74.00	-23.59
2494.88	Average	42.01	0.51	42.52	54.00	-11.48
2494.88	Peak	53.88	0.51	54.39	74.00	-19.61

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Report Number	:ER-2021-70040	Test Site	:SAC 3
Operation Mode	:BLE(2M)	Test Date	:2021-08-05
Test Frequency	:2402 MHz	Temp./Humi.	:27.1/48
Test Mode	:Bandedge CH Low	Antenna Pol.	:VERTICAL
EUT Pol	:NB Plane	Engineer	:Ricky Chen



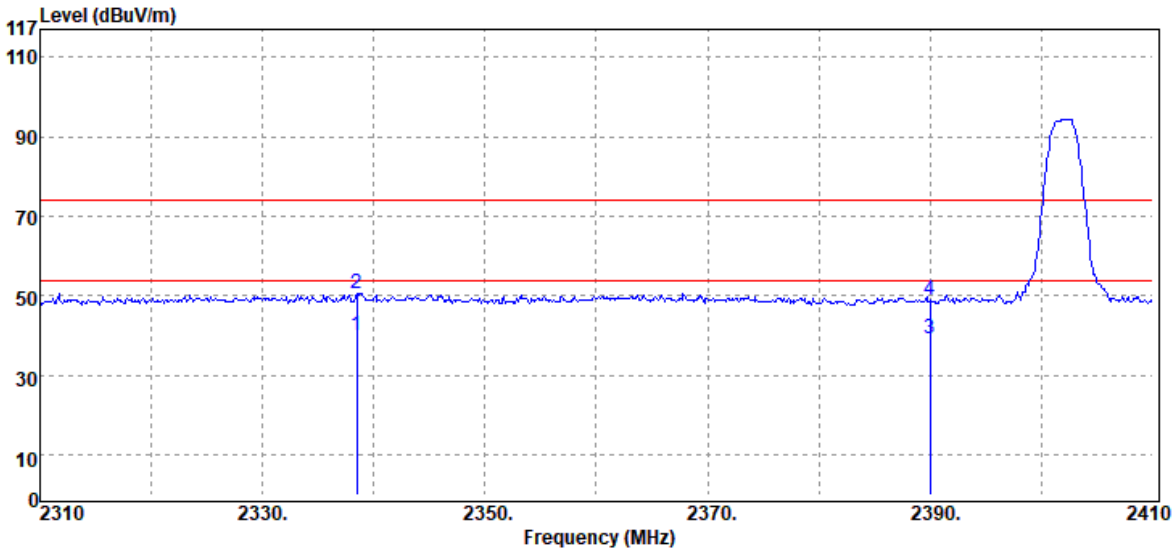
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2373.30	Average	36.67	0.81	37.48	54.00	-16.52
2373.30	Peak	47.62	0.81	48.43	74.00	-25.57
2390.00	Average	36.93	0.76	37.69	54.00	-16.31
2390.00	Peak	47.63	0.76	48.39	74.00	-25.61

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Operation Mode	:BLE(2M)	Test Date	:2021-08-05
Test Frequency	:2402 MHz	Temp./Humi.	:27.1/48
Test Mode	:Bandedge CH Low	Antenna Pol.	:HORIZONTAL
EUT Pol	:NB Plane	Engineer	:Ricky Chen



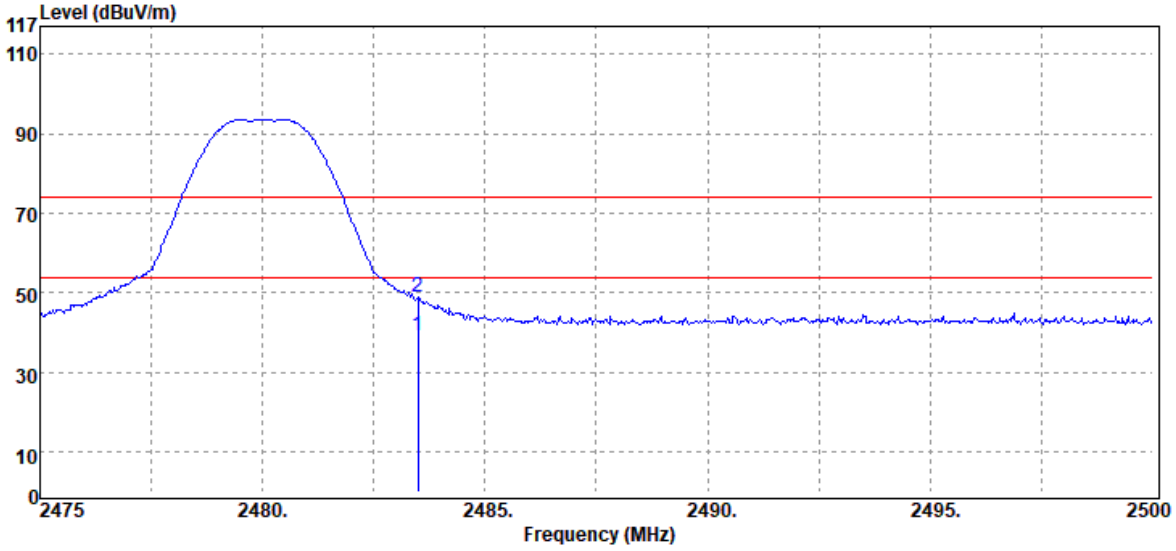
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2338.50	Average	39.22	0.84	40.06	54.00	-13.94
2338.50	Peak	49.97	0.84	50.81	74.00	-23.19
2390.00	Average	38.65	0.76	39.41	54.00	-14.59
2390.00	Peak	48.10	0.76	48.86	74.00	-25.14

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Report Number	:ER-2021-70040	Test Site	:SAC 3
Operation Mode	:BLE(2M)	Test Date	:2021-08-05
Test Frequency	:2480 MHz	Temp./Humi.	:27.1/48
Test Mode	:Bandedge CH High	Antenna Pol.	:VERTICAL
EUT Pol	:NB Plane	Engineer	:Ricky Chen



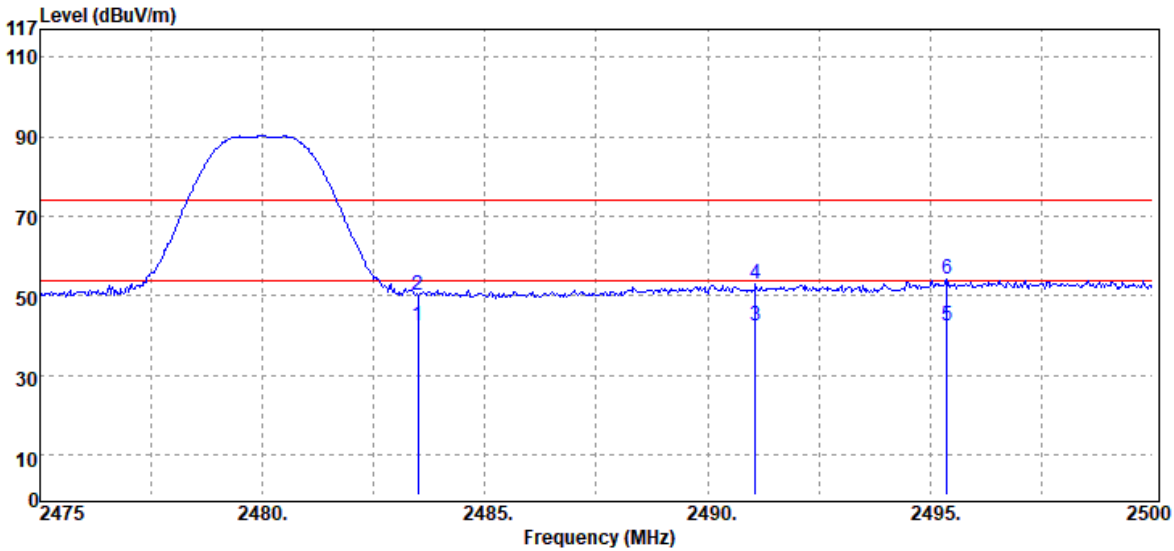
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2483.50	Average	38.76	0.54	39.30	54.00	-14.70
2483.50	Peak	48.27	0.54	48.81	74.00	-25.19

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Report Number	:ER-2021-70040	Test Site	:SAC 3
Operation Mode	:BLE(2M)	Test Date	:2021-08-05
Test Frequency	:2480 MHz	Temp./Humi.	:27.1/48
Test Mode	:Bandedge CH High	Antenna Pol.	:HORIZONTAL
EUT Pol	:NB Plane	Engineer	:Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2483.50	Average	42.09	0.54	42.63	54.00	-11.37
2483.50	Peak	49.63	0.54	50.17	74.00	-23.83
2491.08	Average	41.91	0.53	42.44	54.00	-11.56
2491.08	Peak	52.67	0.53	53.20	74.00	-20.80
2495.38	Average	42.03	0.51	42.54	54.00	-11.46
2495.38	Peak	53.60	0.51	54.11	74.00	-19.89

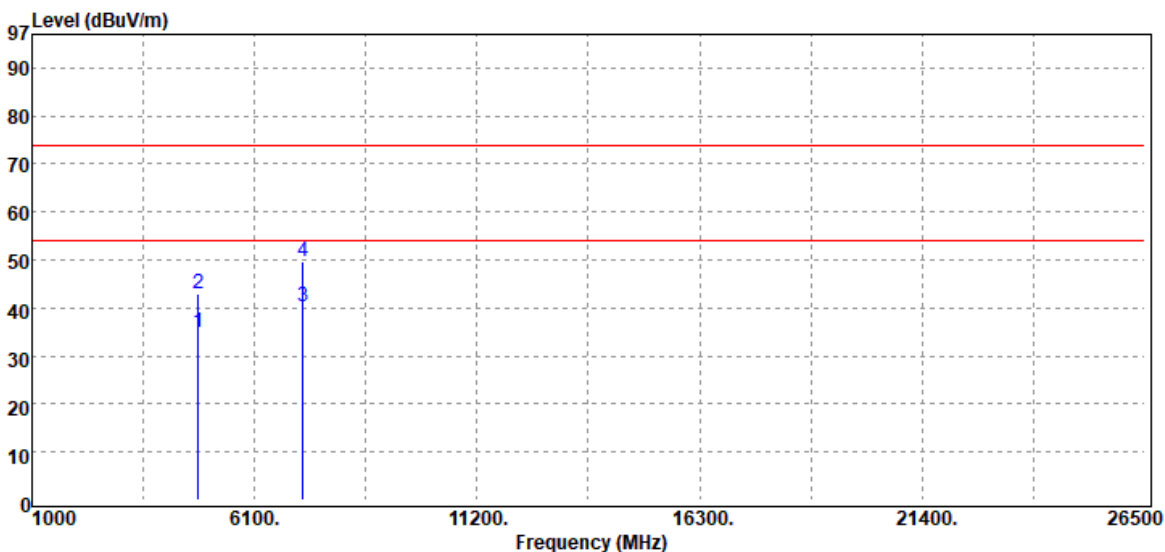
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7.7.2 Radiated Spurious Emission above 1GHz

Report Number	:ER-2021-70040	Test Site	:SAC 3
Operation Mode	:BLE(1M)	Test Date	:2021-08-05
Test Frequency	:2402 MHz	Temp./Humi.	:27.1/48
Test Mode	:Tx CH Low	Antenna Pol.	:VERTICAL
EUT Pol	:NB Plane	Engineer	:Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4804.00	Average	27.56	7.48	35.04	54.00	-18.96
4804.00	Peak	35.47	7.48	42.95	74.00	-31.05
7206.00	Average	25.91	14.20	40.11	54.00	-13.89
7206.00	Peak	35.34	14.20	49.54	74.00	-24.46

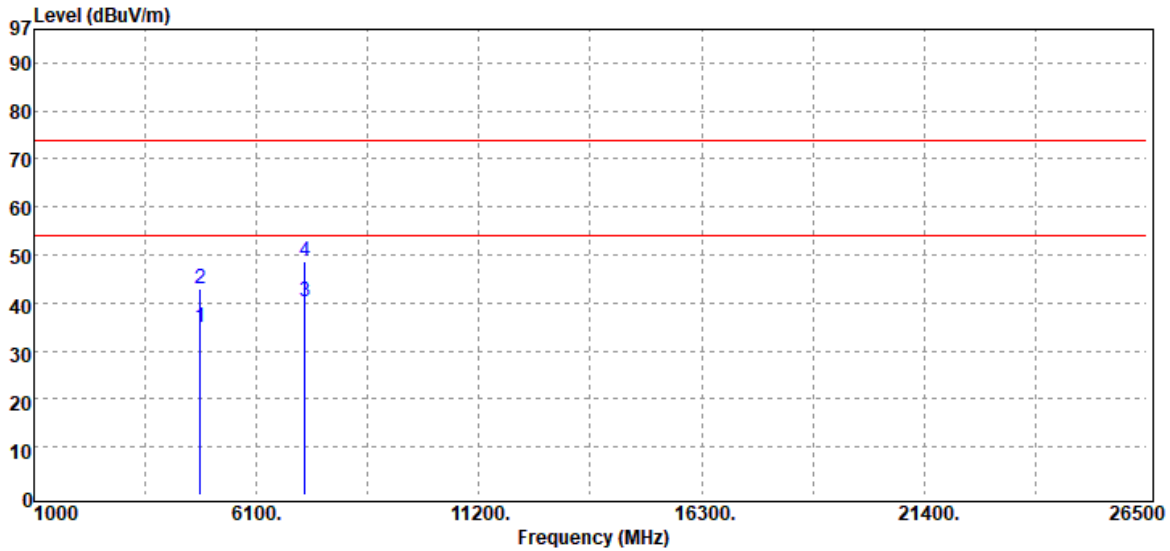
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Report Number :ER-2021-70040
 Operation Mode :BLE(1M)
 Test Frequency :2402 MHz
 Test Mode :Tx CH Low
 EUT Pol :NB Plane

Test Site :SAC 3
 Test Date :2021-08-05
 Temp./Humi. :27.1/48
 Antenna Pol. :HORIZONTAL
 Engineer :Ricky Chen



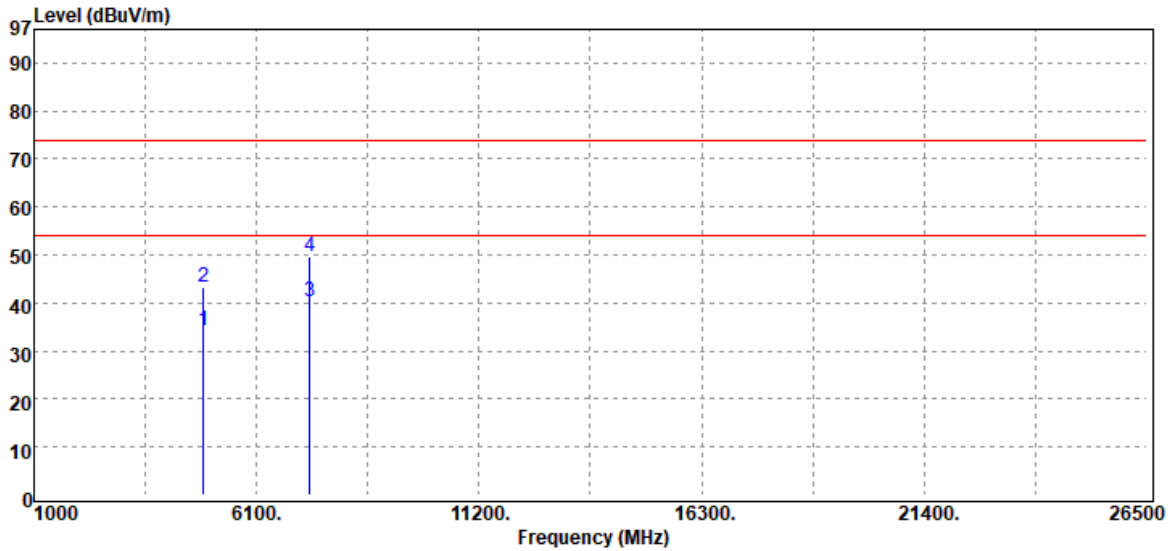
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4804.00	Average	27.52	7.48	35.00	54.00	-19.00
4804.00	Peak	35.62	7.48	43.10	74.00	-30.90
7206.00	Average	26.17	14.20	40.37	54.00	-13.63
7206.00	Peak	34.48	14.20	48.68	74.00	-25.32

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Report Number	:ER-2021-70040	Test Site	:SAC 3
Operation Mode	:BLE(1M)	Test Date	:2021-08-05
Test Frequency	:2442 MHz	Temp./Humi.	:27.1/48
Test Mode	:Tx CH Mid	Antenna Pol.	:VERTICAL
EUT Pol	:NB Plane	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
4884.00	Average	27.19	7.01	34.20	54.00	-19.80
4884.00	Peak	36.35	7.01	43.36	74.00	-30.64
7326.00	Average	25.69	14.56	40.25	54.00	-13.75
7326.00	Peak	35.12	14.56	49.68	74.00	-24.32

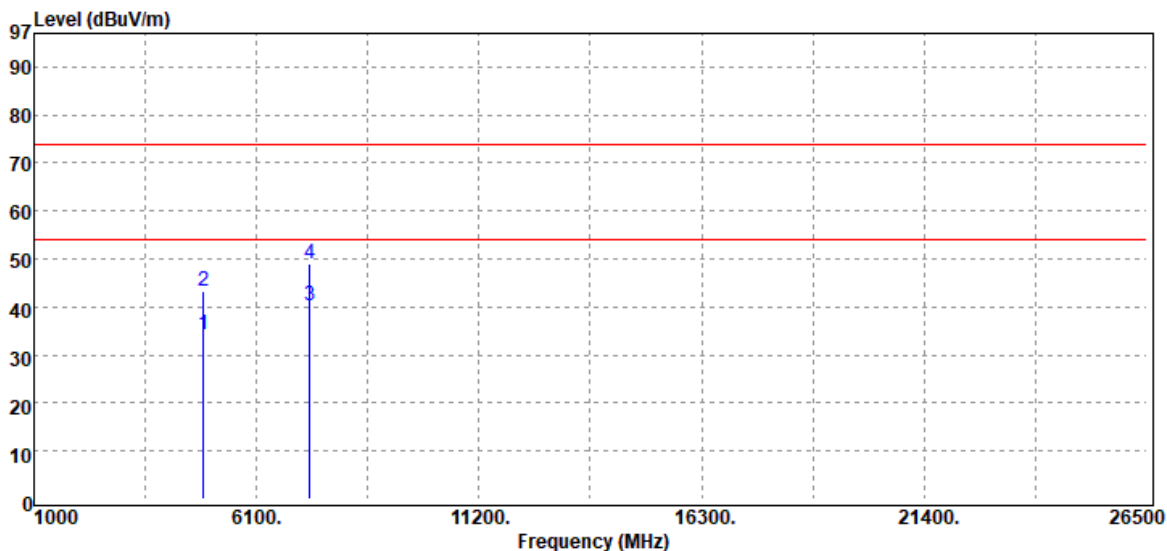
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Report Number :ER-2021-70040
 Operation Mode :BLE(1M)
 Test Frequency :2442 MHz
 Test Mode :Tx CH Mid
 EUT Pol :NB Plane

Test Site :SAC 3
 Test Date :2021-08-05
 Temp./Humi. :27.1/48
 Antenna Pol. :HORIZONTAL
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4884.00	Average	27.06	7.01	34.07	54.00	-19.93
4884.00	Peak	36.43	7.01	43.44	74.00	-30.56
7326.00	Average	25.63	14.56	40.19	54.00	-13.81
7326.00	Peak	34.46	14.56	49.02	74.00	-24.98

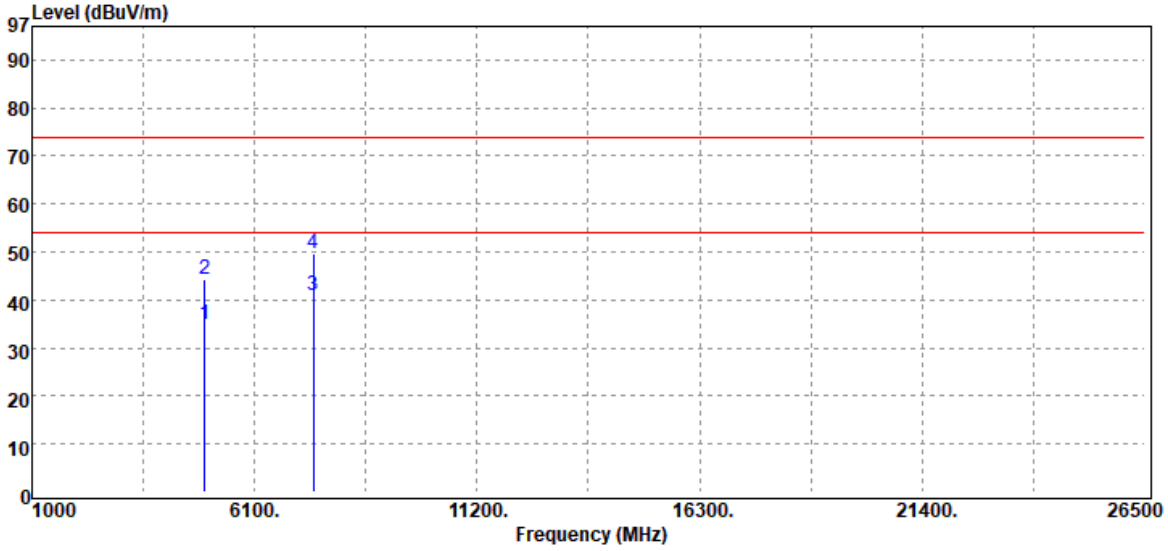
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Report Number :ER-2021-70040
 Operation Mode :BLE(1M)
 Test Frequency :2480 MHz
 Test Mode :Tx CH High
 EUT Pol :NB Plane

Test Site :SAC 3
 Test Date :2021-08-05
 Temp./Humi. :27.1/48
 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
4960.00	Average	27.39	7.40	34.79	54.00	-19.21
4960.00	Peak	36.79	7.40	44.19	74.00	-29.81
7440.00	Average	26.31	14.60	40.91	54.00	-13.09
7440.00	Peak	34.93	14.60	49.53	74.00	-24.47

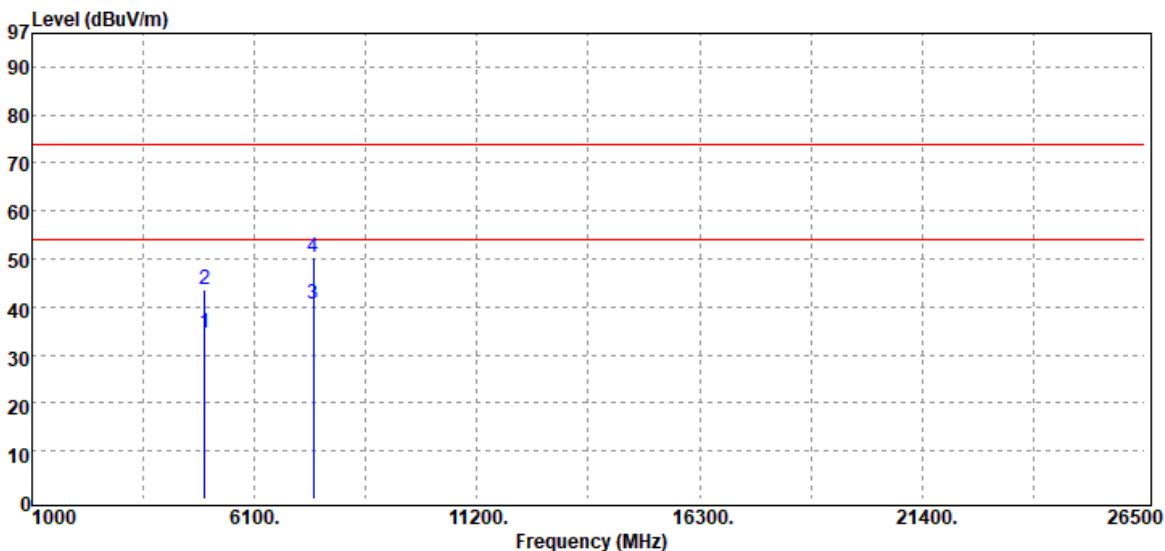
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Report Number :ER-2021-70040
 Operation Mode :BLE(1M)
 Test Frequency :2480 MHz
 Test Mode :Tx CH High
 EUT Pol :NB Plane

Test Site :SAC 3
 Test Date :2021-08-05
 Temp./Humi. :27.1/48
 Antenna Pol. :HORIZONTAL
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4960.00	Average	27.30	7.40	34.70	54.00	-19.30
4960.00	Peak	36.32	7.40	43.72	74.00	-30.28
7440.00	Average	26.16	14.60	40.76	54.00	-13.24
7440.00	Peak	35.87	14.60	50.47	74.00	-23.53

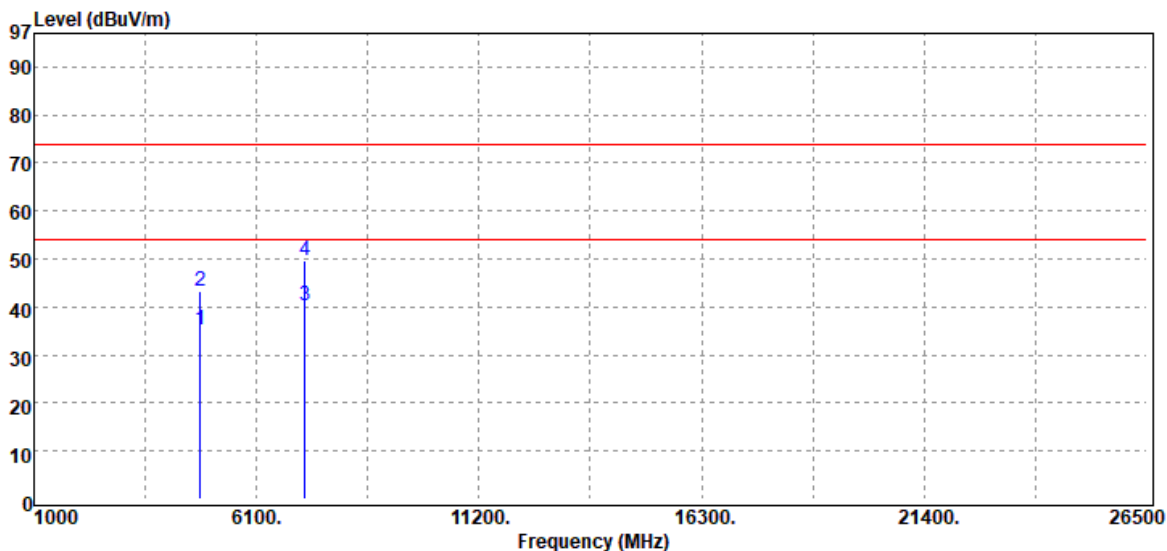
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Report Number :ER-2021-70040
 Operation Mode :BLE(2M)
 Test Frequency :2402 MHz
 Test Mode :Tx CH Low
 EUT Pol :NB Plane

Test Site :SAC 3
 Test Date :2021-08-05
 Temp./Humi. :27.1/48
 Antenna Pol. :VERTICAL
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4804.00	Average	27.75	7.48	35.23	54.00	-18.77
4804.00	Peak	35.94	7.48	43.42	74.00	-30.58
7206.00	Average	26.04	14.20	40.24	54.00	-13.76
7206.00	Peak	35.46	14.20	49.66	74.00	-24.34

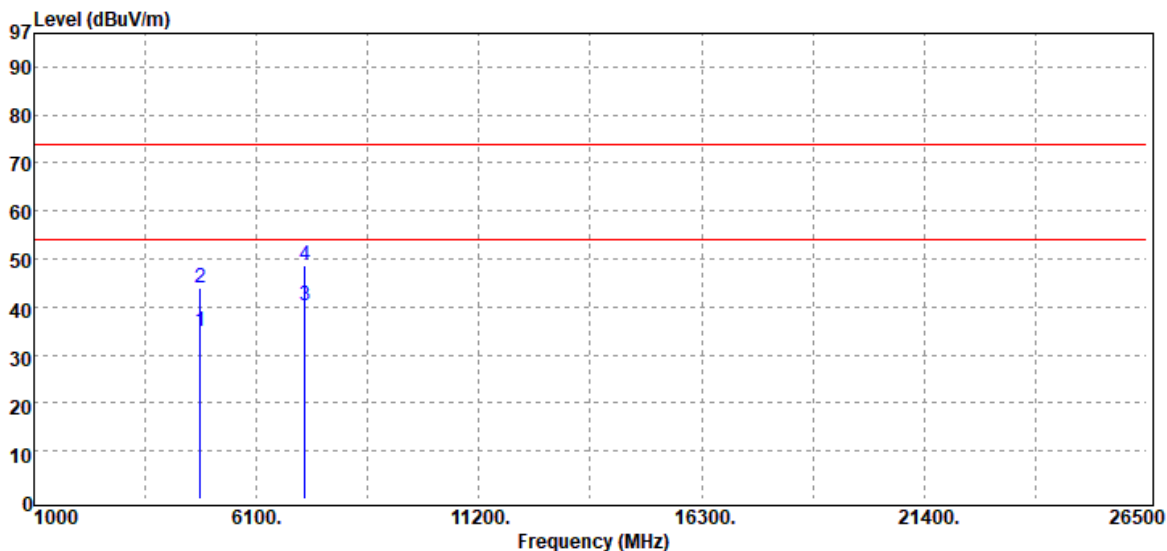
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Report Number :ER-2021-70040
 Operation Mode :BLE(2M)
 Test Frequency :2402 MHz
 Test Mode :Tx CH Low
 EUT Pol :NB Plane

Test Site :SAC 3
 Test Date :2021-08-05
 Temp./Humi. :27.1/48
 Antenna Pol. :HORIZONTAL
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4804.00	Average	27.55	7.48	35.03	54.00	-18.97
4804.00	Peak	36.49	7.48	43.97	74.00	-30.03
7206.00	Average	25.91	14.20	40.11	54.00	-13.89
7206.00	Peak	34.60	14.20	48.80	74.00	-25.20

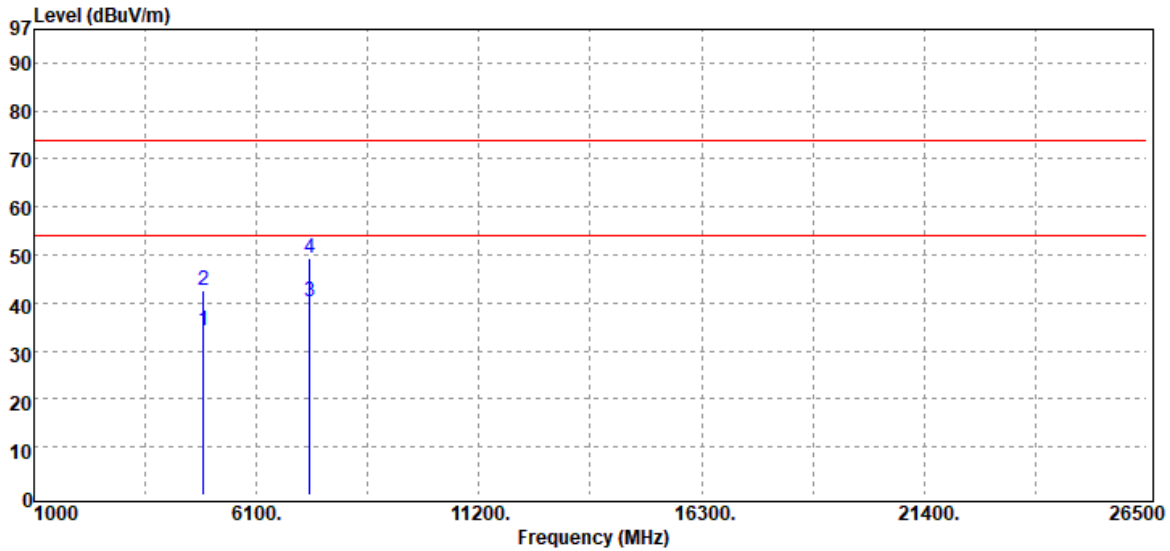
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Report Number :ER-2021-70040
 Operation Mode :BLE(2M)
 Test Frequency :2442 MHz
 Test Mode :Tx CH Mid
 EUT Pol :NB Plane

Test Site :SAC 3
 Test Date :2021-08-05
 Temp./Humi. :27.1/48
 Antenna Pol. :VERTICAL
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4884.00	Average	27.33	7.01	34.34	54.00	-19.66
4884.00	Peak	35.68	7.01	42.69	74.00	-31.31
7326.00	Average	25.62	14.56	40.18	54.00	-13.82
7326.00	Peak	34.63	14.56	49.19	74.00	-24.81

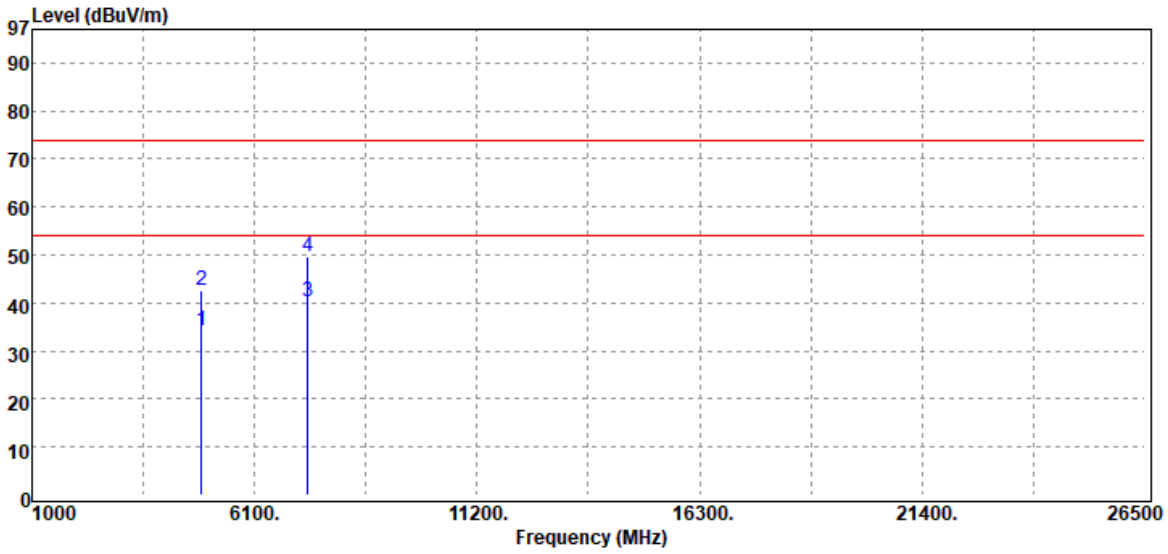
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Report Number :ER-2021-70040
 Operation Mode :BLE(2M)
 Test Frequency :2442 MHz
 Test Mode :Tx CH Mid
 EUT Pol :NB Plane

Test Site :SAC 3
 Test Date :2021-08-05
 Temp./Humi. :27.1/48
 Antenna Pol. :HORIZONTAL
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4884.00	Average	27.18	7.01	34.19	54.00	-19.81
4884.00	Peak	35.45	7.01	42.46	74.00	-31.54
7326.00	Average	25.69	14.56	40.25	54.00	-13.75
7326.00	Peak	35.00	14.56	49.56	74.00	-24.44

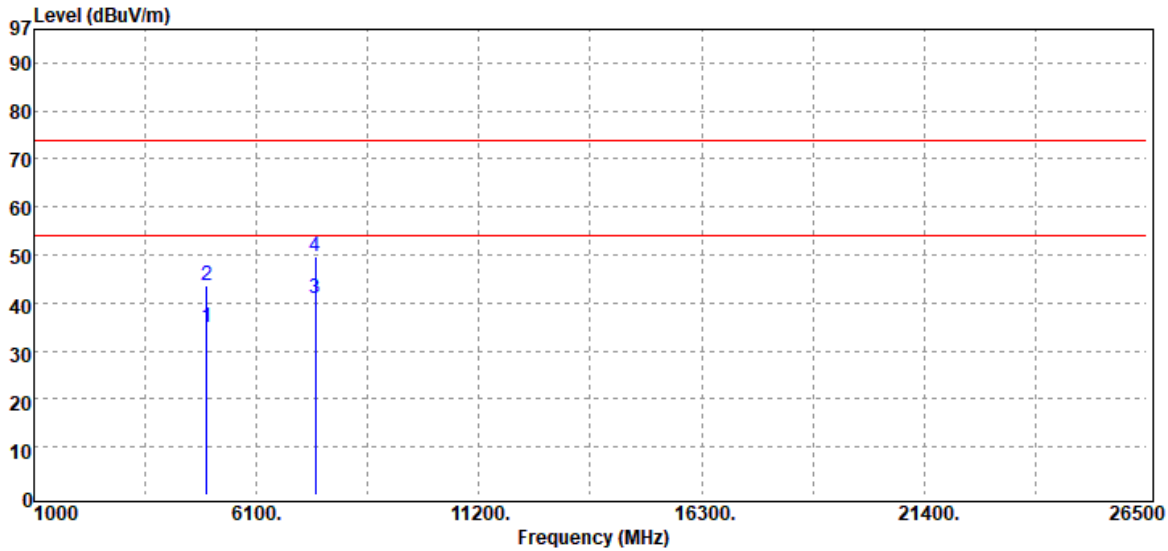
Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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Report Number :ER-2021-70040
 Operation Mode :BLE(2M)
 Test Frequency :2480 MHz
 Test Mode :Tx CH High
 EUT Pol :NB Plane

Test Site :SAC 3
 Test Date :2021-08-05
 Temp./Humi. :27.1/48
 Antenna Pol. :VERTICAL
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4960.00	Average	27.50	7.40	34.90	54.00	-19.10
4960.00	Peak	36.28	7.40	43.68	74.00	-30.32
7440.00	Average	26.46	14.60	41.06	54.00	-12.94
7440.00	Peak	35.20	14.60	49.80	74.00	-24.20

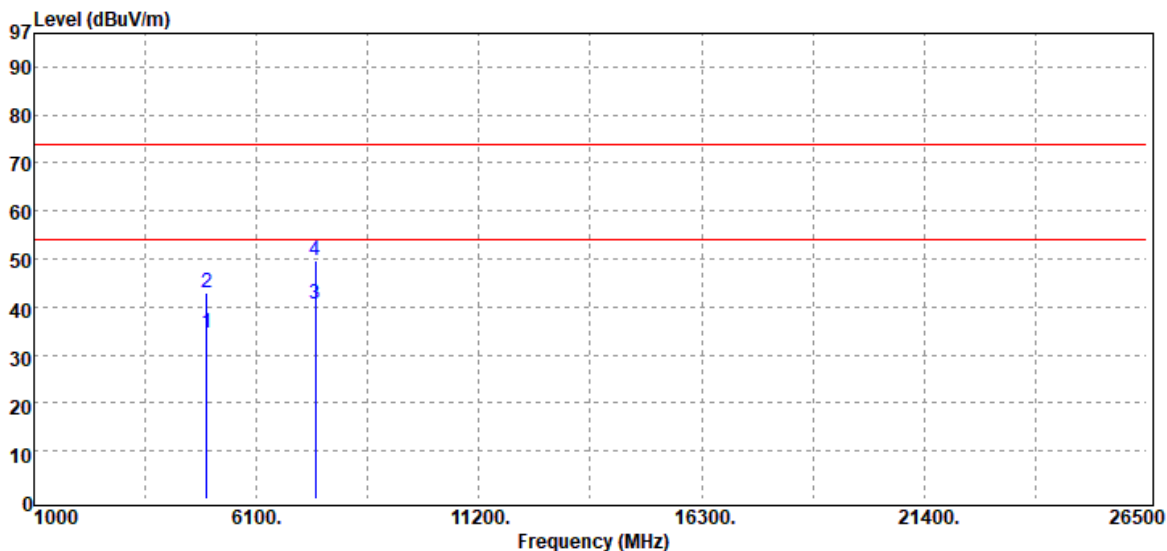
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Report Number :ER-2021-70040
 Operation Mode :BLE(2M)
 Test Frequency :2480 MHz
 Test Mode :Tx CH High
 EUT Pol :NB Plane

Test Site :SAC 3
 Test Date :2021-08-05
 Temp./Humi. :27.1/48
 Antenna Pol. :HORIZONTAL
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4960.00	Average	27.33	7.40	34.73	54.00	-19.27
4960.00	Peak	35.60	7.40	43.00	74.00	-31.00
7440.00	Average	26.13	14.60	40.73	54.00	-13.27
7440.00	Peak	34.95	14.60	49.55	74.00	-24.45

~ End of Report ~

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