

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

INTENTIONAL RADIATOR CERTIFICATION TO FCC PART 15 SUBPART C REQUIREMENT AND INDUSTRY CANADA RSS 247 CLASS II & IV PC REPORT

OF

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

Product Name: WLAN and BT, 2x2 PCIe M.2 2230 adapter card

Brand Name: 

Model No.: 9560NGW

Model Difference: N/A

FCC ID: HLZ9560NG

IC: 1754F-9560NG

Report Number: E2/2018/60060

FCC Rule Part: §15.247, Cat: DTS

IC Rule Part: RSS-247 issue 2 Feb 2017

Issue Date: Aug. 03, 2018

Date of Test: Jul. 02, 2018

Date of EUT Received: Jun. 29, 2018

We hereby certify that:

The above equipment was tested by SGS Taiwan Ltd. Electronics & Communication Laboratory. 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 tested as described in this report is in compliance with conducted and radiated emission limits.

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



Prepared By:

Aken Huang / Engineer



Approved By:

Jim Chang / Manager



Testing Laboratory
0513

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Revision History

Report Number	Revision	Description	Effectuated Page	Issue Date	Revised By
E2/2018/60060	Rev.00	Initial creation of document	All	Aug. 03, 2018	Elle Chang

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1 GENERAL INFORMATION

1.1 Product Description

General:

Product Name of Host:	Notebook Computer	
Brand Name:		
Marketing Name of Host:	SF314-55, SF314-55G	
Model No. of Host:	N18P1	
Model Difference:	N/A	
Hardware Version:	N/A	
Software Version:	N/A	
Model No. of BT/WLAN Module:	9560NGW	
Module FCC ID:	HLZ9560NG	
Module IC:	1754F-9560NG	
Scope:	The test report covers the radiated emissions requirements of the standards referenced in the report to allow system level approval of the module in this specific host.	
Class II & Class IV Permissive change:	WLAN and BT, 2x2 PCIe M.2 2230 adapter card INSTALLED IN Notebook Computer	
Power Supply:	15.2Vdc from Rechargeable Li-ion Battery Pack or 19V by AC/DC Power Adapter	
	Battery:	Model No.: AC14B8, Supplier: LG
	Adapter:	Model No.: A11-065N1A, Supplier: Chicony

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Bluetooth Low Energy:

Frequency Range:	2402 – 2480MHz
Bluetooth Version:	V5.0 dual mode
Channel number:	40 channels
Modulation type:	GFSK
Transmit Power:	8.65dBm
Type of Emission:	1M15F1D
Antenna Designation:	PIFA Antenna, Supplier: WNC 1. P/N: 1415-06UL0PB (81EAAL15.GKJ), Gain: 0.61dBi (Main) 2. P/N: 1415-06UL0PB (81EAAL15.GKY), Gain: 0.30dBi (Aux)

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1.2 Test Methodology of Applied Standards

FCC Part 15, Subpart C §15.247

FCC KDB 558074 D01 DTS Meas. Guidance

ANSI C63.10:2013

Canada RSS-247 issue 2: 2017

Canada RSS-Gen issue 4: 2014

Note:

All test items have been performed and record as per the above standards.

1.3 Test Facility

SGS Taiwan Ltd. Electronics & Communication Laboratory No.2, Keji 1st Rd., Guishan District, Taoyuan City, Taiwan 333 (TAF code 0513)

FCC Registration Number and Designation number are: 735305 / TW0002

Canada Registration Number: 4620A-5

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 Conducted Emissions

The EUT is a placed on as turn table which is 0.8 m above ground plan. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz,. The CISPR Quasi-Peak and Average detector mode is employed according to §15.207. The two LISNs provide 50 ohm/ 50uH of coupling impedance for the measuring instrument. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.

2.3.2 Radiated Emissions

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

2.4 Measurement Results Explanation Example

For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuation factor between EUT conducted port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly EUT RF output level.

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2.5 Configuration of Tested System

Fig. 2-1 Configuration of Tested System



Table 2-1 Equipment Used in Tested System

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

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3 SUMMARY OF TEST RESULTS

FCC Rules	IC Rules	Description Of Test	Result
§15.247(b) (3)	RSS-247 §5.4(4)	Peak Output Power	Compliant
§15.247(d)	RSS-247 §5.5	Radiated Spurious Emission	Compliant
§15.203 §15.247(b)	-	Antenna Requirement	Compliant

4 DESCRIPTION OF TEST MODES

4.1 Operated in 2400 ~ 2483.5MHz Band

40 channels are provided for Bluetooth LE

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
0	2402 MHz	14	2430 MHz	28	2458 MHz
1	2404 MHz	15	2432 MHz	29	2460 MHz
2	2406 MHz	16	2434 MHz	30	2462 MHz
3	2408 MHz	17	2436 MHz	31	2464 MHz
4	2410 MHz	18	2438 MHz	32	2466 MHz
5	2412 MHz	19	2440 MHz	33	2468 MHz
6	2414 MHz	20	2442 MHz	34	2470 MHz
7	2416MHz	21	2444 MHz	35	2472 MHz
8	2418 MHz	22	2446 MHz	36	2474 MHz
9	2420 MHz	23	2448 MHz	37	2476 MHz
10	2422 MHz	24	2450 MHz	38	2478 MHz
11	2424 MHz	25	2452 MHz	39	2480 MHz
12	2426 MHz	26	2454 MHz		
13	2428 MHz	27	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.

RADIATED EMISSION TEST:

RADIATED EMISSION TEST (ABOVE 1 GHz)					
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
Bluetooth LE (V5.0)	0 to 39	0,20,39	GFSK	2	Aux

Note:

The field strength of radiation emission was measured as EUT stand-up position (H mode) and lie down position (E1, E2 mode) for Bluetooth LE Transmitter for channel Low, Mid and High, the worst case H position was reported.

ANTENNA PORT CONDUCTED MEASUREMENT:

CONDUCTED TEST					
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
Bluetooth LE (V5.0)	0 to 39	0,20,39	GFSK	2	Aux

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5 MEASUREMENT UNCERTAINTY

Test Items	Uncertainty
AC Power Line Conducted Emission	+/- 2.586 dB
Peak Output Power	+/- 0.84 dB
6dB Bandwidth	+/- 51.33 Hz
100 KHz Bandwidth Of Frequency Band Edges	+/- 0.84 dB
Peak Power Density	+/- 1.3 dB
Temperature	+/- 0.65 °C
Humidity	+/- 4.6 %
DC / AC Power Source	DC= +/- 0.13%, AC= +/- 0.2%

Radiated Spurious Emission:

Measurement uncertainty (Polarization : Vertical)	9kHz-30MHz: +/-2.87dB
	30MHz - 180MHz: +/- 3.37dB
	180MHz -417MHz: +/- 3.19dB
	0.417GHz-1GHz: +/- 3.19dB
	1GHz - 18GHz: +/- 4.04dB
	18GHz - 40GHz: +/- 4.04dB

Measurement uncertainty (Polarization : Horizontal)	9kHz-30MHz: +/-2.87dB
	30MHz - 167MHz: +/- 4.22dB
	167MHz -500MHz: +/- 3.44dB
	0.5GHz-1GHz: +/- 3.39dB
	1GHz - 18GHz: +/- 4.08dB
	18GHz - 40GHz: +/- 4.08dB

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

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6 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.

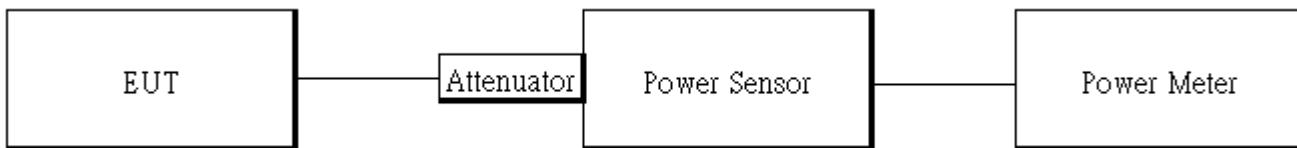
If the transmitting antenna of directional gain greater than 6dBi are used the peak output power from the intentional radiator shall be reduced below the above stated value by the amount in dB that the directional gain of the Antenna exceeds 6dBi.

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					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	Agilent	N9010A	MY51440113	06/20/2018	06/19/2019
Power Meter	Anritsu	ML2496A	1326001	07/25/2018	07/24/2019
Power Sensor	Anritsu	MA2411B	1315048	07/25/2018	07/24/2019
Power Sensor	Anritsu	MA2411B	1315049	07/25/2018	07/24/2019
Attenuator	Marvelous	MVE2213-10	RF30	12/26/2017	12/25/2018
Attenuator	Marvelous	MVE2213-10	RF31	12/26/2017	12/25/2018
DC Block	PASTERNACK	PE8210	RF29	12/26/2017	12/25/2018

6.3 Test Set-up:



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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.

Power Meter:

It is used as the auxiliary test equipment to conduct the output power measurement.

4. Record the max. Reading as observed from Power Meter.
5. Repeat above procedures until all test default channel measured was complete.

6.5 Measurement Result:

BLE mode:

Frequency (MHz)	Reading Power (dBm)	Peak Output Power (W)	Limit (W)
2402.00	8.54	0.00714	1
2442.00	8.41	0.00693	1
2480.00	8.65	0.00733	1

Frequency (MHz)	Reading Power (dBm)	Avg. Output Power (W)	Limit (W)
2402.00	8.42	0.00695	1
2442.00	8.49	0.00706	1
2480.00	8.63	0.00729	1

**Note: Measured by power meter, cable loss as 10.4dB that offsets on the power meter.*

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7 RADIATED 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.
2. Emission level (dB μ V/m) = 20 log Emission level (dB μ V/m)

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7.2 Measurement Equipment Used

966 Chamber					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Horn Antenna	Schwarzbeck	BBHA9120D	1187	01/04/2018	01/03/2019
EMI Test Receiver	R&S	ESU 40	100363	04/11/2018	04/10/2019
Pre-Amplifier	EMC Instruments	EMC0011830	980199	12/26/2017	12/25/2018
Attenuator	Marvelous	WATT-218FS-10	RF246	12/26/2017	12/25/2018
Highpass Filter	Micro Tronics	BRM50701-01	G008	12/26/2017	12/25/2018
Coaxial Cable	Huber Suhner	SUCOFLEX 104	MY17388/4	12/26/2017	12/25/2018

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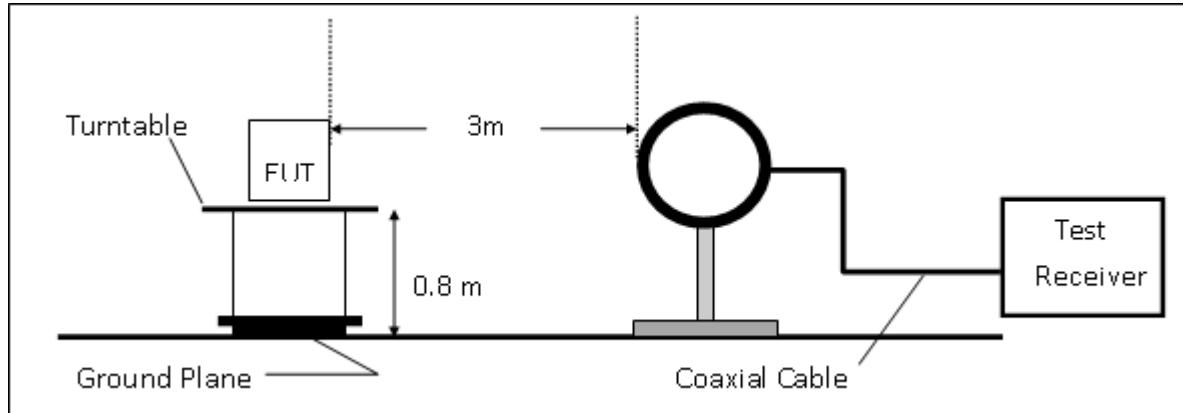
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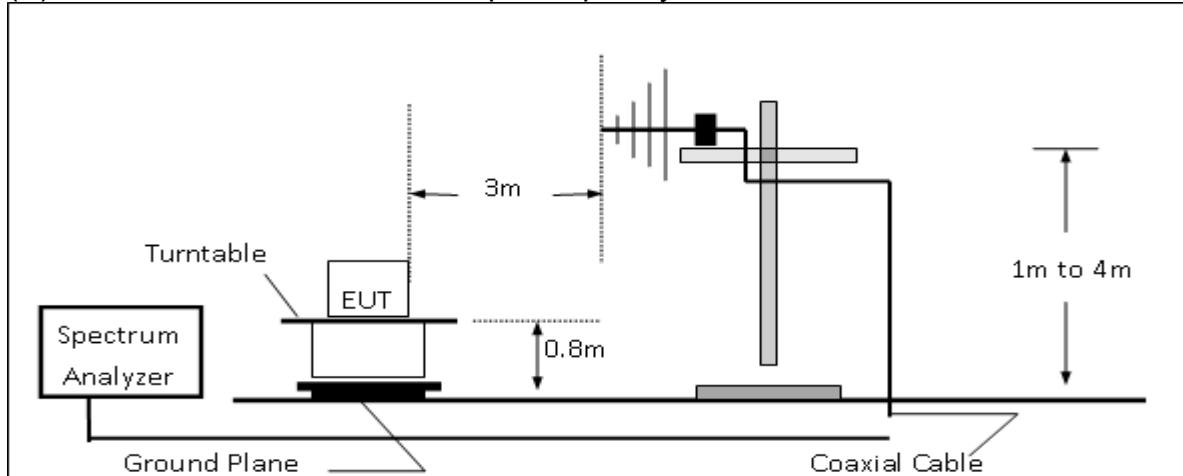
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7.3 Test SET-UP

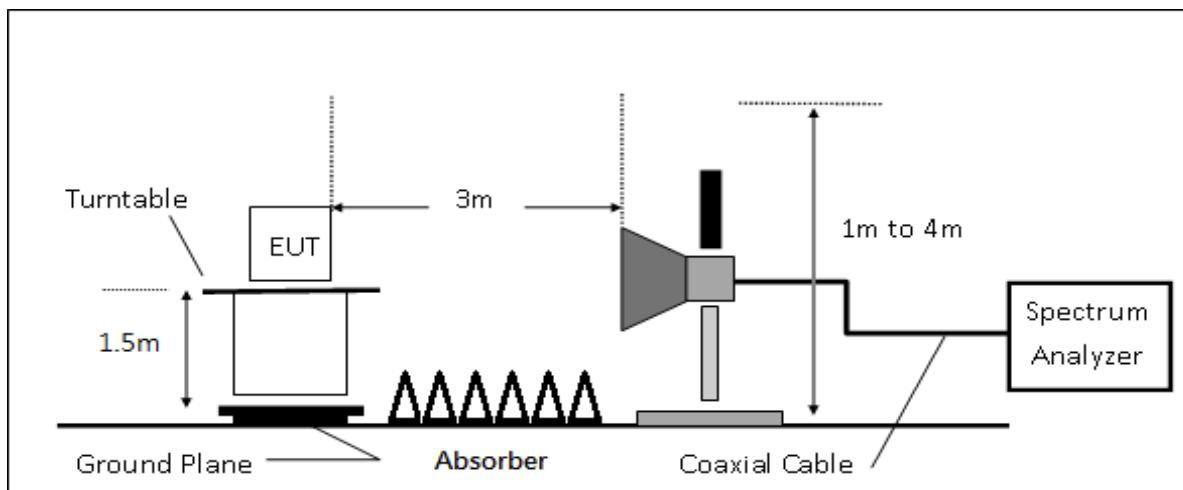
(A) Radiated Emission Test Set-UP Frequency Below 30MHz.



(B) Radiated Emission Test Set-UP, Frequency from 30MHz to 1000MHz



(C) Radiated Emission Test Set-UP Frequency Over 1 GHz



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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 plan.
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=120 kHz and VBW=300 kHz for Peak Detector (PK) and Quasi-peak (QP) at frequency below 1 GHz.
6. Set the spectrum analyzer as RBW=1 MHz, VBW=3 MHz for Peak Detector at frequency above 1 GHz.
7. 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.
8. 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.
9. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
10. 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.
11. 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	

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

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

7.6 Test Results of Radiated Spurious Emissions form 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.

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

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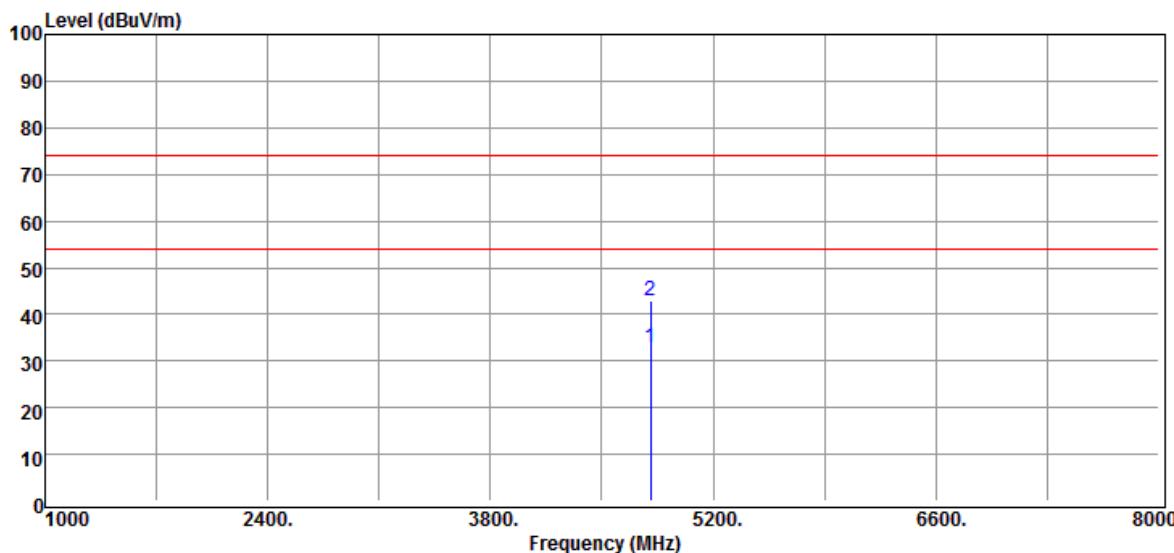
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Radiated Spurious Emission Measurement Result (BLE mode)**For Frequency above 1GHz**

Operation Mode	:BLE	Test Date	:2018-07-02
Test Mode	:TX CH LOW	Temp./Humi.	:23/64
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:2402 MHz	Engineer	:Enzo



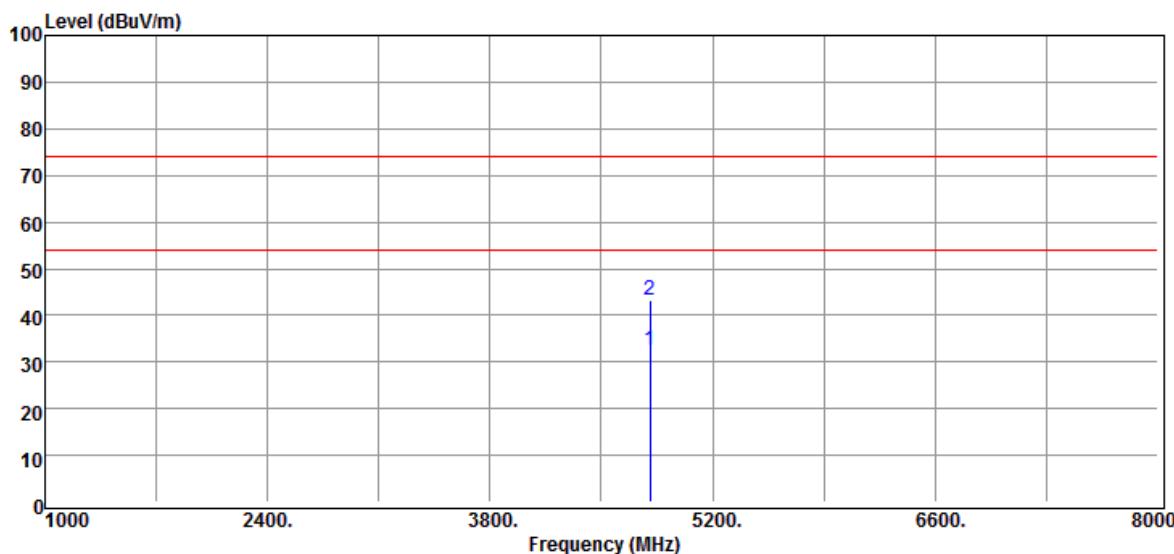
Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4804.00	Average	20.43	12.29	32.72	54.00	-21.28
4804.00	Peak	30.45	12.29	42.74	74.00	-31.26

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Operation Mode	:BLE	Test Date	:2018-07-02
Test Mode	:TX CH LOW	Temp./Humi.	:23/64
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:2402 MHz	Engineer	:Enzo



Freq. MHz	Detector Mode	Spectrum Reading		Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
		PK/QP/AV	dB μ V				
4804.00	Average	20.40	12.29	32.69	54.00	-21.31	
4804.00	Peak	30.90	12.29	43.19	74.00	-30.81	

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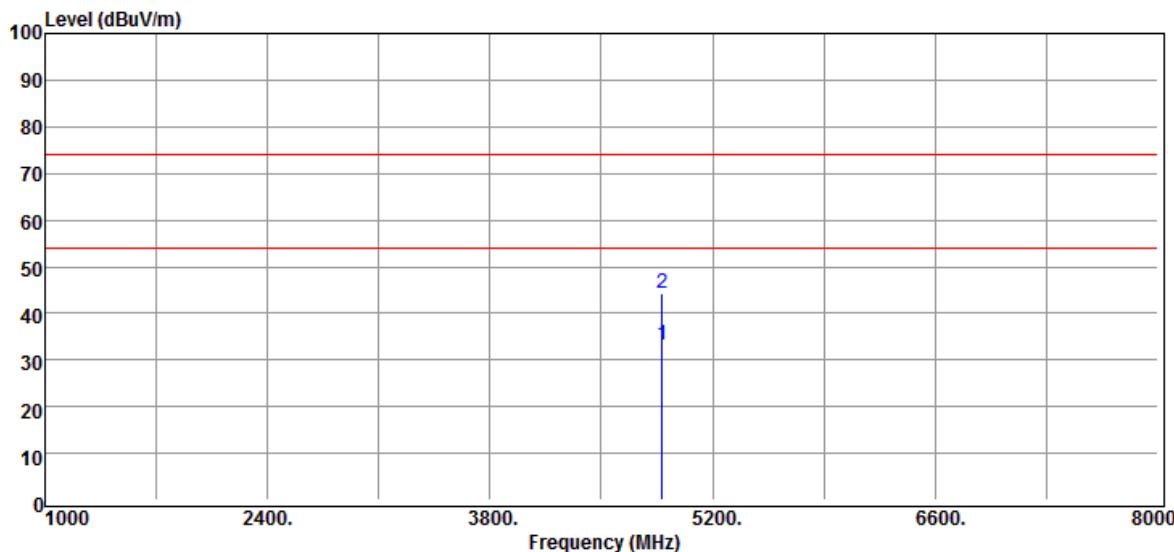
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Operation Mode	:BLE	Test Date	:2018-07-02
Test Mode	:TX CH MID	Temp./Humi.	:23/64
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:2442 MHz	Engineer	:Enzo



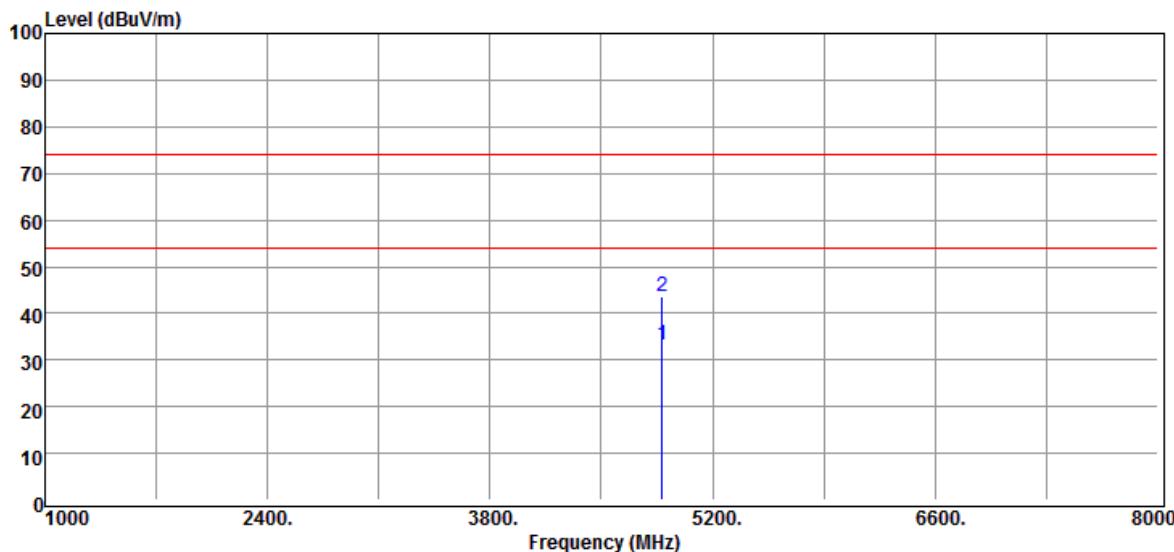
Freq. MHz	Detector Mode	Spectrum Reading	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
4884.00	Average	20.46	12.63	33.09	54.00	-20.91
4884.00	Peak	31.50	12.63	44.13	74.00	-29.87

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Operation Mode	:BLE	Test Date	:2018-07-02
Test Mode	:TX CH MID	Temp./Humi.	:23/64
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:2442 MHz	Engineer	:Enzo



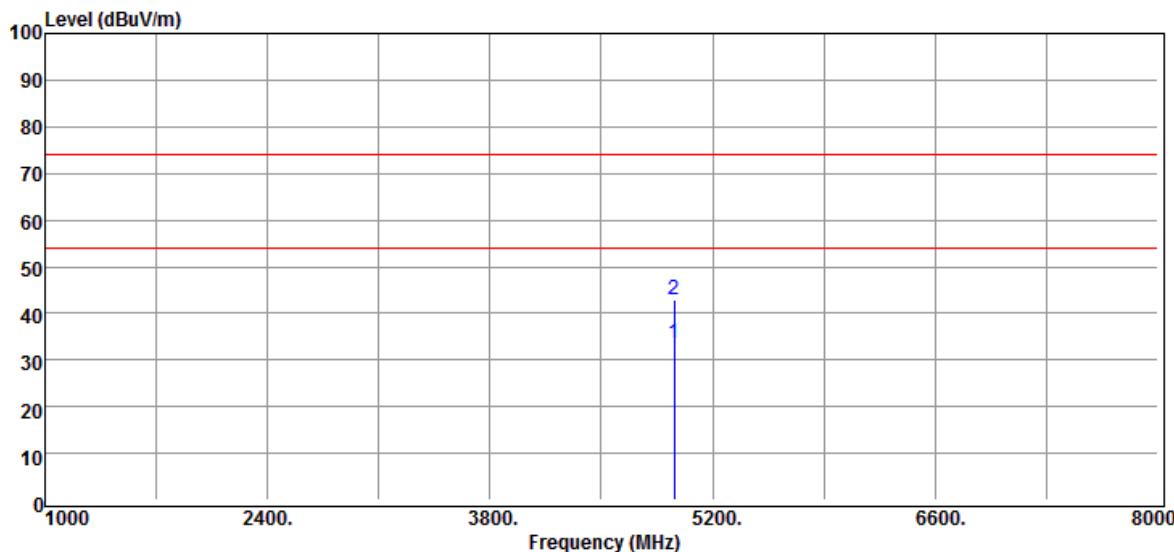
Freq. MHz	Detector Mode	Spectrum Reading	Factor	Actual	Limit	Margin
				FS	@3m	dB
4884.00	Average	20.48	12.63	33.11	54.00	-20.89
4884.00	Peak	30.93	12.63	43.56	74.00	-30.44

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Operation Mode	:BLE	Test Date	:2018-07-02
Test Mode	:TX CH HIGH	Temp./Humi.	:23/64
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:2480 MHz	Engineer	:Enzo



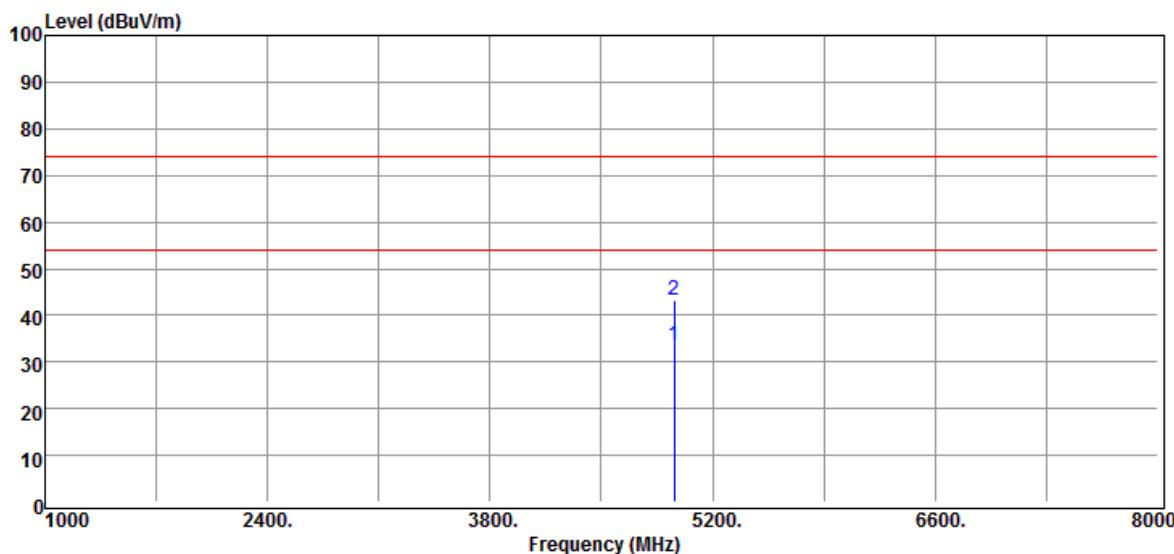
Freq. MHz	Detector Mode	Spectrum Reading	Factor	Actual FS	Limit @3m	Margin
PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB	
4960.00	Average	20.53	12.93	33.46	54.00	-20.54
4960.00	Peak	29.96	12.93	42.89	74.00	-31.11

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Operation Mode	:BLE	Test Date	:2018-07-02
Test Mode	:TX CH HIGH	Temp./Humi.	:23/64
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:2480 MHz	Engineer	:Enzo



Freq. MHz	Detector Mode	Spectrum Reading	Factor	Actual	Limit	Margin
				FS	@3m	dB
4960.00	Average	20.50	12.93	33.43	54.00	-20.57
4960.00	Peak	30.38	12.93	43.31	74.00	-30.69

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8 ANTENNA REQUIREMENT

8.1 Standard Applicable:

For intentional device, according to §15.203, an intentional radiator shall be designed to ensure that no antenna other than furnished by the responsible party shall be used with the device.

If the transmitting antenna is greater than 6dBi, the power shall be reduced by the same level in dB comparing to gain minus 6dBi.

In case of point-to-point operation, the power shall be reduced by the one dB for every 3 dB that the directional gain of antenna exceeds 6dBi.

8.2 Antenna Connected Construction:

An embedded-in antenna design is used.

Please see EUT photo and antenna spec. for details.

The antenna gain is less than 6dBi. Therefore, it is not necessary to reduce maximum output power limit.

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