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ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

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

Applicant: QUANTA COMPUTER INC

NO.188, WENHWA 2ND RD., GUISHAN DIST., TAOYUAN

CITY 33377, TAIWAN

Intel Dual-Band Wireless-AC 7265 **Product Name:**

Brand Name: INTEL

7265NGW Model No.:

Model Difference: N/A

Report Number: E2/2019/C0067

FCC ID: HFSGQE100

IC: 1787B-GQE100

FCC Rule Part: §15.247, Cat: DSS

IC RSS: RSS-247 issue 2 Feb 2017

Apr. 01, 2020 **Issue Date:**

Date of Test: Dec. 13, 2019 ~ Mar. 31, 2020

Date of EUT Re-Dec. 13, 2019

ceived:

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.

Approved By: Jim Chang / Manager





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Jim Chang

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Revision History					
Report Number Revision Description Issue Date Remark					
E2/2019/C0067 Rev.00 Original. Apr. 01, 2020 Revised By: Stefanie					

Note:

1 Nost Multiple Model numbers or Trademarks The variant model numbers are assessed as identical in hardware and software to each other, hence all variants are fully covered by the test results in this test report without further verification test.

2 · Disclaimer

Variant information among host model numbers is provided by the applicant, test results of this report are applicable to the sample EUT received.

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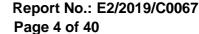
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GENERAL INFORMATION

1.1 Product description

Product Name:	Meeting Computer System
Brand Name:	N/A
Model No. of Host:	GQE10A, GQE10C
Model Difference:	For the marketing purpose
Hardware Version:	N/A
Software Version:	N/A
Model No. of BT/WLAN Module:	7265NGW
Class II & Class IV Permissive change:	Intel Dual-Band Wireless-AC 7265 installed in Meeting Computer System
	19V from AC/DC Adapter
Power Supply:	Adapter: Model No.: PA-1900-92, Supplier: ASUS

Radio Technology:	Bluetooth BR+EDR
Channel number:	79 channels
Modulation type:	GFSK + π/4DQPSK + 8DPSK
Frequency Range:	2.402GHz – 2.480GHz
Dwell Time:	≤ 0.4s
Antenna Designation:	Metal Antenna, Supplier: WNC Platform Name: 0WD, Gain: -1.3dBi

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1.2 Test Methodology of Applied Standards

FCC Part 15, Subpart C §15.247 KDB 558074 D01 v05 DSS Meas. Guidance RSS-247 issue 2 Feb. 2017 RSS-Gen. issue 5, Amendment 1, March 2019 ANSI C63.10:2013

1.3 Test Facility

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

FCC Designation number: TW0002

ISED CAB identifier: TW0513

1.4 Special Accessories

There is no special accessory used while test was conducted.

1.5 Equipment Modifications

There was no modification incorporated into the EUT.

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

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

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

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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.

Test Procedure 2.3

Radiated Emissions

The EUT is a 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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2.5 Configuration of Tested System

Fig. 2-1 Radiated Emission

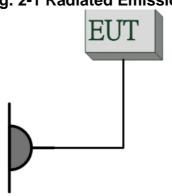


Table 2-1 Equipment Used in Tested System

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

SUMMARY OF TEST RESULTS

FCC Rules	IC Rules	Description Of Test	Result
§15.205 §15.209 §15.247(d)	RSS-247 §5.5 RSS-Gen §8.9 RSS-Gen §8.10	Radiated Band Edge and Spurious Emission	Compliant

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DESCRIPTION OF TEST MODES

Operated in 2400 ~ 2483.5MHz Band

79 channels are provided for Bluetooth

	7.9 Charmers are provided for bidetooth						
ITEM	FREQUENCY	ITEM	FREQUENCY	ITEM	FREQUENCY	ITEM	FREQUENCY
1	2402 MHz	21	2422 MHz	41	2442 MHz	71	2462 MHz
2	2403 MHz	22	2423 MHz	42	2443 MHz	72	2463 MHz
3	2404 MHz	23	2424 MHz	43	2444 MHz	73	2464 MHz
4	2405 MHz	24	2425 MHz	44	2445 MHz	74	2465 MHz
5	2406 MHz	25	2426 MHz	45	2446 MHz	75	2466 MHz
6	2407 MHz	26	2427 MHz	46	2447 MHz	76	2467 MHz
7	2408 MHz	27	2428 MHz	47	2448 MHz	77	2468 MHz
8	2409 MHz	28	2429 MHz	48	2449 MHz	78	2469 MHz
9	2410 MHz	29	2430 MHz	49	2450 MHz	79	2470 MHz
10	2411 MHz	30	2431 MHz	50	2451 MHz	70	2471 MHz
11	2412 MHz	31	2432 MHz	51	2452 MHz	71	2472 MHz
12	2413 MHz	32	2433 MHz	52	2453 MHz	72	2473 MHz
13	2414 MHz	33	2434 MHz	53	2454 MHz	73	2474 MHz
14	2415 MHz	34	2435 MHz	54	2455 MHz	74	2475 MHz
15	2416 MHz	35	2436 MHz	55	2456 MHz	75	2476 MHz
16	2417 MHz	36	2437 MHz	56	2457 MHz	76	2477 MHz
17	2418 MHz	37	2438 MHz	57	2458 MHz	77	2478 MHz
18	2419 MHz	38	2439 MHz	58	2459 MHz	78	2479 MHz
19	2420 MHz	39	2440 MHz	59	2460 MHz	79	2480 MHz
20	2421 MHz	40	2441 MHz	60	2461 MHz		

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

MODE	AVAILABLE TESTED FREQUENCY FREQUENCY (MHz) (MHz)		MODULATION	PACKET TYPE			
	RADIATED EMISSION TEST (ABOVE 1 GHz)						
Bluetooth	2402 to 2480	2402, 2441, 2480	GFSK	DH5			

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 BR+EDR Transmitter for channel Low, Mid and High, the worst case H position was reported.

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MEASUREMENT UNCERTAINTY

Radiated Spurious Emission Measurement Uncertainty				
	9kHz~30MHz: +-2.3dB			
Polarization: Vertical	30MHz - 180MHz: +/- 3.37dB			
	180MHz -417MHz: +/- 3.19dB			
	0.417GHz-1GHz: +/- 3.19dB			
	1GHz - 18GHz: +/- 4.04dB			
	18GHz - 40GHz: +/- 4.04dB			
	9kHz~30MHz: +-2.3dB			
	30MHz - 167MHz: +/- 4.22dB			
Polarization: Horizontal	167MHz -500MHz: +/- 3.44dB			
Polarization: Horizontal	0.5GHz-1GHz: +/- 3.39dB			
	1GHz - 18GHz: +/- 4.08dB			
	18GHz - 40GHz: +/- 4.08dB			

Note:

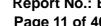
- 1. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.
- 2. The conformity assessment statement in this report is based solely on the test results, measurement uncertainty is excluded.

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RADIATED BANDEDGE AND SPURIOUS EMISSION MEASUREMENT

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 (μ V/m)

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6.2 Measurement Equipment Used

	966 Chamber							
EQUIPMENT	MFR	MODEL	SERIAL	LAST	CAL DUE.			
TYPE		NUMBER	NUMBER	CAL.				
Broadband Antenna	TESEQ	CBL 6112D	35240	09/09/2019	09/08/2020			
Horn Antenna	Schwarzbeck	BBHA9170	185	08/07/2019	08/06/2020			
Horn Antenna	Schwarzbeck	BBHA9120D	603	04/24/2019	04/23/2020			
Loop Antenna	ETS.LINDGREN	6502	143303	04/25/2019	04/24/2020			
EMI Test Receiver	R&S	ESU 40	100363	04/15/2019	04/14/2020			
Pre-Amplifier	EMC Instru-	EMC330	980096	11/20/2019	11/10/2020			
r re-Ampilier	ments	LIVICSSO	900090	11/20/2019	11/19/2020			
Pre-Amplifier	EMC Instru-	EMC0011830	980199	11/20/2019	11/19/2020			
i ie-Ampiliei	ments	LIVICOUTTOSO	300133	11/20/2019	11/19/2020			
Pre-Amplifier	EMC Instru-	EMC184045B	980135	11/20/2019	11/19/2020			
1 16-Ampliller	ments	LIVIO 104043D	300133	11/20/2019	11/13/2020			
Attenuator	Woken	WATT-218FS-10	RF25	11/20/2019	11/19/2020			
Highpass Filter	Micro Tronics	BRM50701-01	G008	11/20/2019	11/19/2020			
Coaxial Cable	Huber Suhner	SUCOFLEX 104	MY17388/4	11/20/2019	11/19/2020			
Coaxial Cable	Huber Suhner	RG 214/U	W22.03	11/20/2019	11/19/2020			

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

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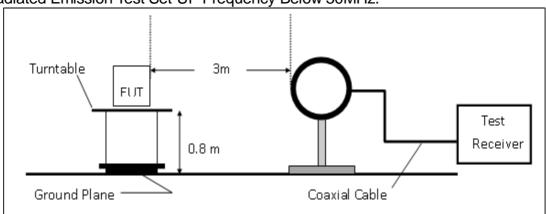
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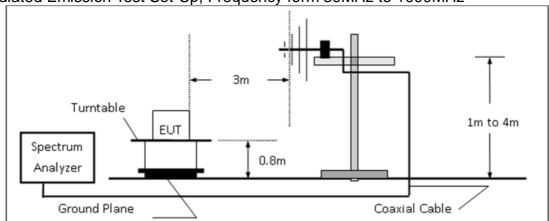


6.3 Test SET-UP

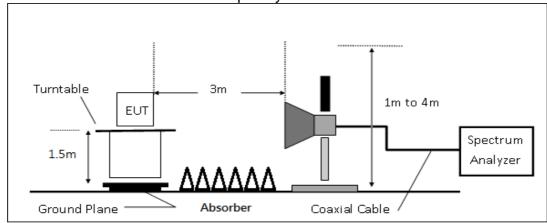
(A) Radiated Emission Test Set-UP Frequency Below 30MHz.



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



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



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6.4 Measurement Procedure

- The testing follows the Measurement Procedure of ANSI C63.10:2013.
- The EUT was placed on a turn table with 0.8m for frequency< 1GHz and 1.5m for fre-2. quency> 1GHz above ground plan.
- 3. The turn table shall rotate 360 degrees to determine the position of maximum emission
- 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 ≥ 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 compli-
- 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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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*log(uV/m)

Actual $FS(dB\mu V/m) = SPA$. Reading level(dB μV) + Factor(dB)

 $Factor(dB) = Antenna\ Factor(dB\mu V/m) + Cable\ Loss(dB) - Pre_Amplifier\ Gain(dB)$

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

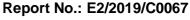
The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit per 15.31(o) & RSS-GEN §6.13.2 was not reported.

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6.7 Measurement Result:

Radiated Band Edge Measurement Result

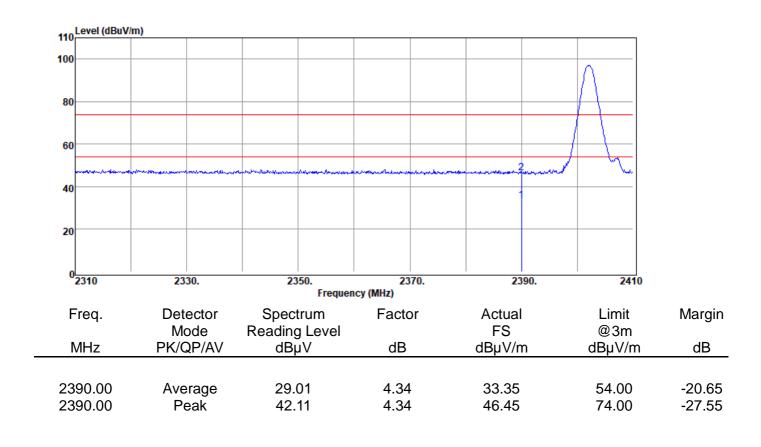
Report Number :E2/2019/C0067 **Test Date** :2019-12-30

Operation Mode :BT BR Temp./Humi. :20.8/62

Test Frequency Antenna Pol. :VERTICAL :2402 MHz

Test Mode :BE CH LOW Engineer :Ashton

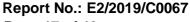
EUT Pol :H Plan



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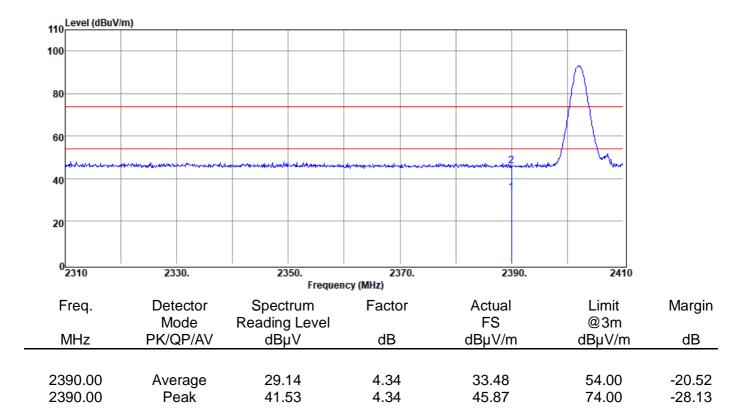
Report Number **Test Date** :2019-12-30 :E2/2019/C0067

Operation Mode :BT BR Temp./Humi. :20.8/62

Test Frequency :2402 MHz Antenna Pol. :HORIZONTAL

Test Mode :BE CH LOW Engineer :Ashton

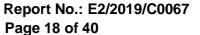
EUT Pol :H Plan



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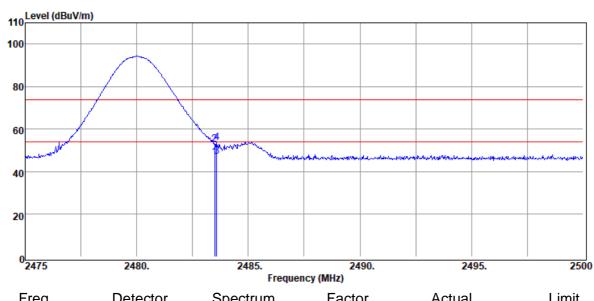
Report Number **Test Date** :2019-12-30 :E2/2019/C0067

Operation Mode :BT BR

Temp./Humi. :20.8/62 Test Frequency :2480 MHz Antenna Pol. : VERTICAL

Test Mode :BE CH HIGH Engineer :Ashton

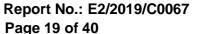
EUT Pol :H Plan



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
2483.50	Average	42.15	4.53	46.68	54.00	-7.32
2483.50	Peak	48.42	4.53	52.95	74.00	-21.05
2483.58	Average	42.68	4.54	47.22	54.00	-6.78
2483.58	Peak	49.26	4.54	53.80	74.00	-20.20

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Report Number :E2/2019/C0067

Operation Mode :BT BR

Test Frequency :2480 MHz

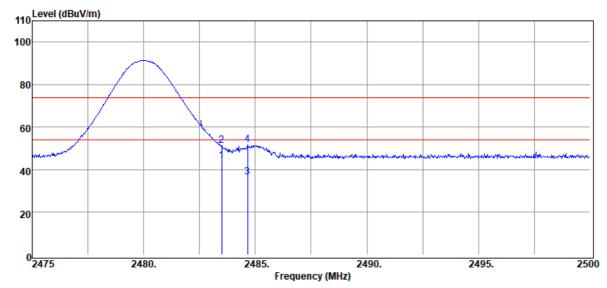
Test Mode :BE CH HIGH

EUT Pol :H Plan **Test Date** :2019-12-30

Temp./Humi. :20.8/62

Antenna Pol. :HORIZONTAL

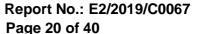
Engineer :Ashton



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
						_
2483.50	Average	39.48	4.53	44.01	54.00	-9.99
2483.50	Peak	46.98	4.53	51.51	74.00	-22.49
2484.65	Average	31.93	4.54	36.47	54.00	-17.53
2484.65	Peak	47.10	4.54	51.64	74.00	-22.36

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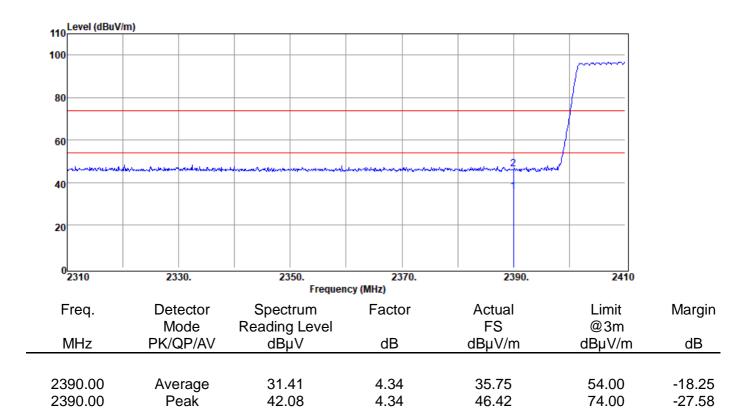


Report Number :E2/2019/C0067 Test Date :2019-12-30

Operation Mode :BT BR Hopping Temp./Humi. :20.8/62

Test Frequency :2402 MHz Antenna Pol. :VERTICAL
Test Mode :BE CH LOW Engineer :Ashton

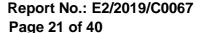
EUT Pol :H Plan



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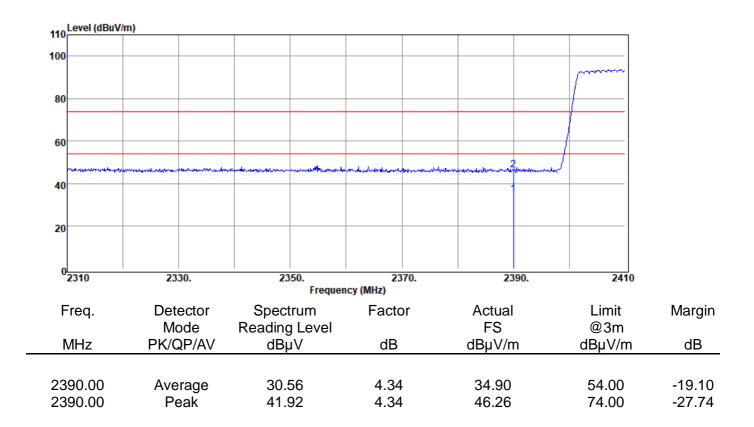
Report Number :E2/2019/C0067 Test Date :2019-12-30

Operation Mode :BT BR Hopping Temp./Humi. :20.8/62

Test Frequency :2402 MHz Antenna Pol. :HORIZONTAL

Test Mode :BE CH LOW Engineer :Ashton

EUT Pol :H Plan



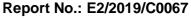
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:Ashton

Engineer



Report Number **Test Date** :2019-12-30 :E2/2019/C0067

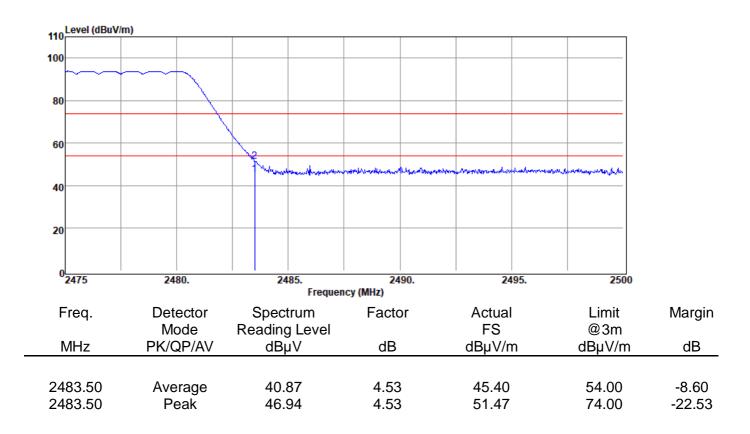
Operation Mode :BT BR Hopping Temp./Humi. :20.8/62

Test Frequency :2480 MHz Antenna Pol. : VERTICAL

EUT Pol :H Plan

:BE CH HIGH

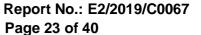
Test Mode



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:2019-12-30

Test Date



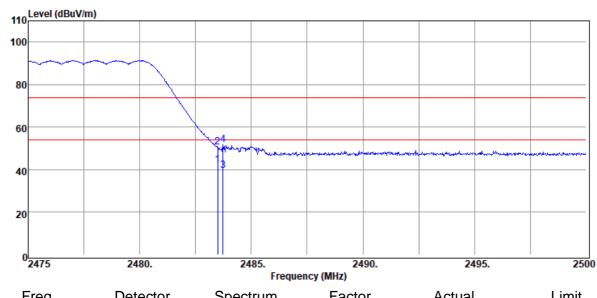
Report Number :E2/2019/C0067

Operation Mode :BT BR Hopping Temp./Humi. :20.8/62

Test Frequency :2480 MHz Antenna Pol. :HORIZONTAL

Test Mode :BE CH HIGH Engineer :Ashton

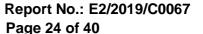
EUT Pol :H Plan



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBµV/m	dBμV/m	dB
2483.50	Average	37.78	4.53	42.31	54.00	-11.69
2483.50	Peak	45.97	4.53	50.50	74.00	-23.50
2483.73	Average	35.12	4.54	39.66	54.00	-14.34
2483.73	Peak	47.09	4.54	51.63	74.00	-22.37

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:Ashton

Engineer



Report Number :E2/2019/C0067 Test Date :2020-03-31

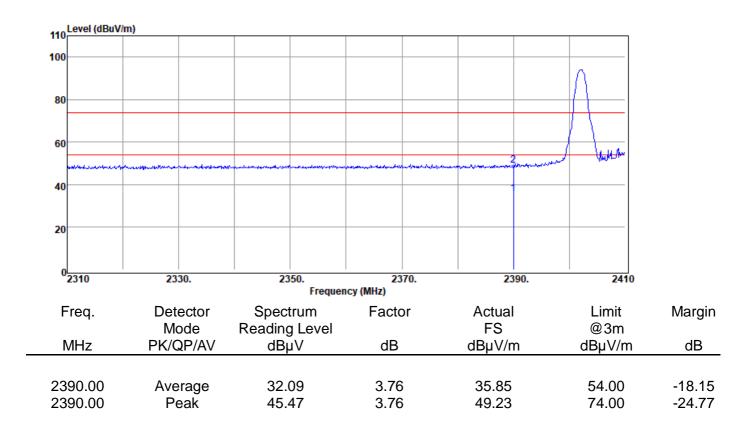
Operation Mode :BT EDR Temp./Humi. :23.4/62

Test Frequency :2402 MHz Antenna Pol. :VERTICAL

EUT Pol :H Plan

:BE CH LOW

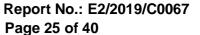
Test Mode



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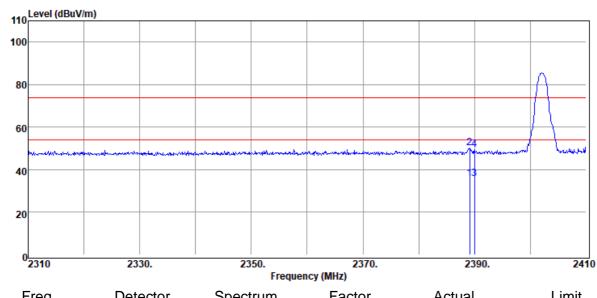
Report Number **Test Date** :2020-03-31 :E2/2019/C0067

Operation Mode :BT EDR Temp./Humi. :23.4/62

Test Frequency :2402 MHz Antenna Pol. :HORIZONTAL

Test Mode :BE CH LOW Engineer :Ashton

EUT Pol :H Plan



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBµV/m	dBμV/m	dB
2389.10	Average	32.14	3.76	35.90	54.00	-18.10
2389.10	Peak	46.37	3.76	50.13	74.00	-23.87
2390.00	Average	32.16	3.76	35.92	54.00	-18.08
2390.00	Peak	45.62	3.76	49.38	74.00	-24.62

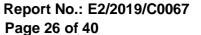
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Report Number :E2/2019/C0067

Operation Mode :BT EDR

Test Frequency :2480 MHz

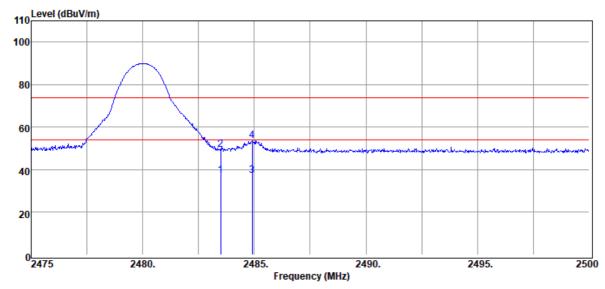
Test Mode :BE CH HIGH

EUT Pol :H Plan **Test Date** :2020-03-31

Temp./Humi. :23.4/62

Antenna Pol. : VERTICAL

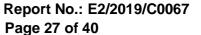
Engineer :Ashton



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBµV/m	dBμV/m	dB
2483.50	Average	32.89	4.42	37.31	54.00	-16.69
2483.50	Peak	45.17	4.42	49.59	74.00	-24.41
2484.90	Average	32.72	4.45	37.17	54.00	-16.83
2484.90	Peak	49.10	4.45	53.55	74.00	-20.45

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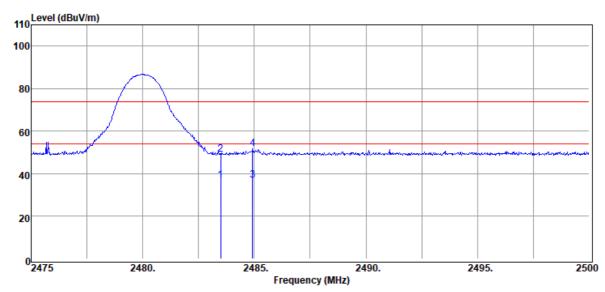
Report Number **Test Date** :2020-03-31 :E2/2019/C0067

Operation Mode :BT EDR Temp./Humi. :23.4/62

Test Frequency :2480 MHz Antenna Pol. :HORIZONTAL

Test Mode :BE CH HIGH Engineer :Ashton

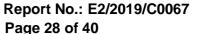
EUT Pol :H Plan



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBµV/m	dBμV/m	dB
2483.50	Average	32.47	4.42	36.89	54.00	-17.11
2483.50	Peak	44.71	4.42	49.13	74.00	-24.87
2484.93	Average	32.50	4.45	36.95	54.00	-17.05
2484.93	Peak	47.21	4.45	51.66	74.00	-22.34

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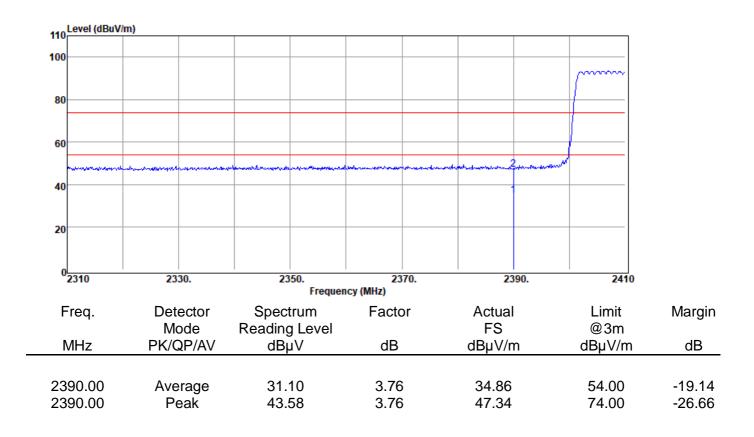


Report Number :E2/2019/C0067 Test Date :2020-03-31

Operation Mode :BT EDR Hopping Temp./Humi. :23.4/62

Test Frequency :2402 MHz Antenna Pol. :VERTICAL
Test Mode :BE CH LOW Engineer :Ashton

EUT Pol :H Plan



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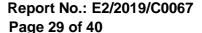
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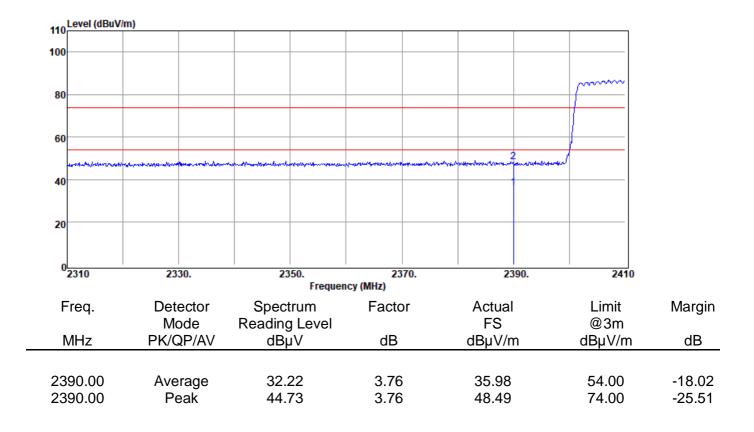
Report Number **Test Date** :2020-03-31 :E2/2019/C0067

Operation Mode :BT EDR Hopping Temp./Humi. :23.4/62

Test Frequency :2402 MHz Antenna Pol. :HORIZONTAL

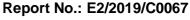
Test Mode :BE CH LOW Engineer :Ashton





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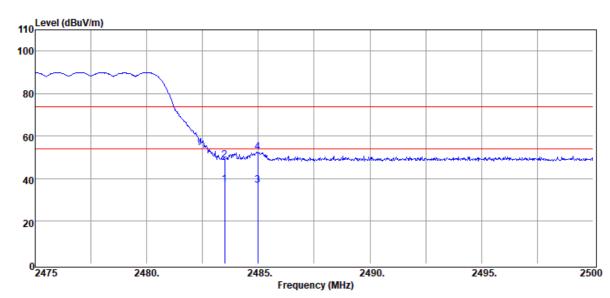


Report Number **Test Date** :2020-03-31 :E2/2019/C0067

Operation Mode :BT EDR Hopping Temp./Humi. :23.4/62

Test Frequency :2480 MHz Antenna Pol. : VERTICAL Test Mode :BE CH HIGH Engineer :Ashton

EUT Pol :H Plan

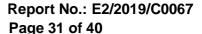


Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBµV/m	dΒμV/m	dB
2483.50	Average	32.71	4.42	37.13	54.00	-16.87
2483.50	Peak	44.38	4.42	48.80	74.00	-25.20
2484.98	Average	32.63	4.45	37.08	54.00	-16.92
2484.98	Peak	48.21	4.45	52.66	74.00	-21.34

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Report Number :E2/2019/C0067

Operation Mode :BT EDR Hopping

Test Frequency :2480 MHz

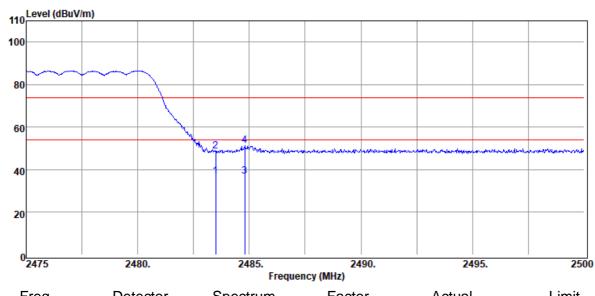
Test Mode :BE CH HIGH

EUT Pol :H Plan **Test Date** :2020-03-31

Temp./Humi. :23.4/62

Antenna Pol. :HORIZONTAL

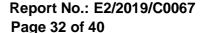
Engineer :Ashton



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBµV/m	dBμV/m	dB
2483.50	Average	32.54	4.42	36.96	54.00	-17.04
2483.50	Peak	44.13	4.42	48.55	74.00	-25.45
2484.80	Average	32.45	4.45	36.90	54.00	-17.10
2484.80	Peak	47.08	4.45	51.53	74.00	-22.47

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Radiated Spurious Emission from 30MHz to 1000MHz

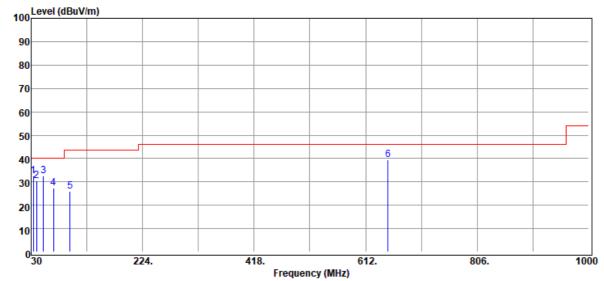
Report Number :E2/2019/C0067 Test Date :2020-03-31

Operation Mode :BT BR Temp./Humi. :23.7/62

Test Frequency :2441 MHz Antenna Pol. :VERTICAL

Test Mode :TX CH MID Engineer :Ashton

EUT Pol :H Plan



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
33.88	Peak	37.58	-5.12	32.46	40.00	-7.54
39.70	Peak	39.05	-8.58	30.47	40.00	-9.53
51.34	Peak	49.87	-17.43	32.44	40.00	-7.56
68.80	Peak	46.27	-18.95	27.32	40.00	-12.68
97.90	Peak	41.82	-15.99	25.83	43.50	-17.67
650.80	Peak	41.45	-2.13	39.32	46.00	-6.68

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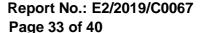
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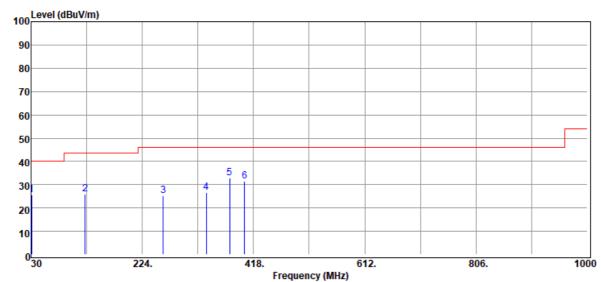
Report Number **Test Date** :2020-03-31 :E2/2019/C0067

Operation Mode :BT BR Temp./Humi. :23.7/62

Test Frequency :2441 MHz Antenna Pol. :HORIZONTAL

Test Mode :TX CH MID Engineer :Ashton

EUT Pol :H Plan



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBµV/m	dBμV/m	dB
30.97	Peak	29.48	-3.89	25.59	40.00	-14.41
124.09	Peak	38.94	-12.85	26.09	43.50	-17.41
260.86	Peak	35.69	-10.45	25.24	46.00	-20.76
335.55	Peak	36.24	-9.50	26.74	46.00	-19.26
376.29	Peak	41.18	-8.24	32.94	46.00	-13.06
402.48	Peak	38.93	-7.34	31.59	46.00	-14.41

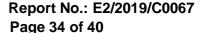
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台灣檢驗科技股份有限公司

SGS Taiwan Ltd.

t (886-2) 2299-3279





Radiated Spurious Emission above 1GHz

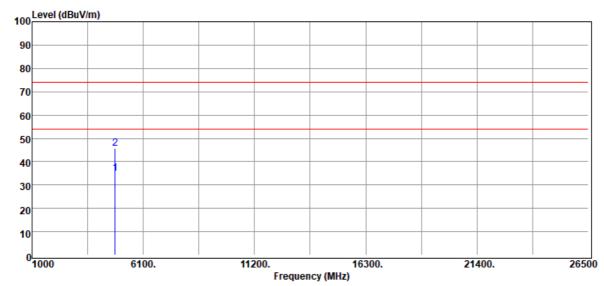
Report Number :E2/2019/C0067 **Test Date** :2020-03-31

Operation Mode :BT BR Temp./Humi. :24.5/62

Test Frequency Antenna Pol. : VERTICAL :2402 MHz

Test Mode :TX CH LOW Engineer :Ashton

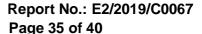
EUT Pol :H Plan



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBμV/m	dB
4804.00	Average	21.01	14.07	35.08	54.00	-18.92
4804.00	Peak	31.55	14.07	45.62	74.00	-28.38

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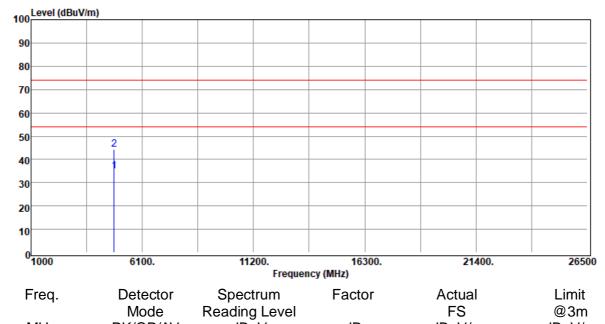
Report Number Test Date :2020-03-31 :E2/2019/C0067

Operation Mode :BT BR Temp./Humi. :24.5/62

Test Frequency :2402 MHz Antenna Pol. :HORIZONTAL

Test Mode :TX CH LOW Engineer :Ashton

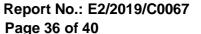
EUT Pol :H Plan



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμ̈V	dB	dBµV/m	dBμV/m	dB
4804.00	Average	20.89	14.07	34.96	54.00	-19.04
4804.00	Peak	30.28	14.07	44.35	74.00	-29.65

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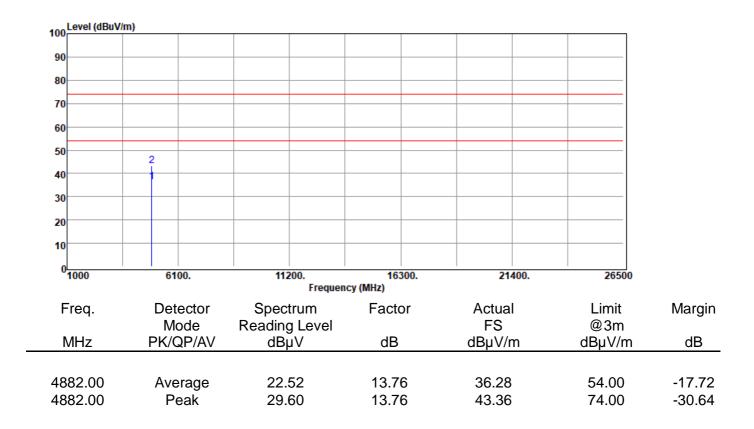


Report Number **Test Date** :2019-12-30 :E2/2019/C0067

Operation Mode :BT BR Temp./Humi. :20.8/63

Test Frequency :2441 MHz Antenna Pol. : VERTICAL Test Mode :TX CH MID Engineer :Ashton

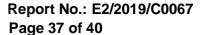
EUT Pol :H Plan



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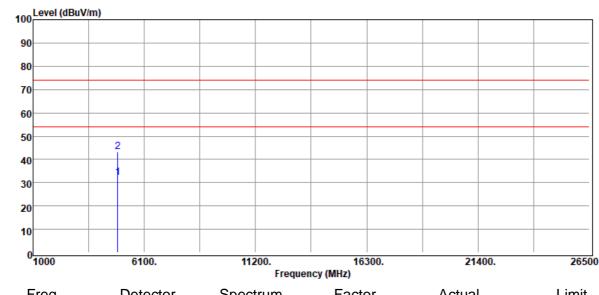
Report Number Test Date :2019-12-30 :E2/2019/C0067

Operation Mode :BT BR Temp./Humi. :20.8/63

Test Frequency :2441 MHz Antenna Pol. :HORIZONTAL

Test Mode :TX CH MID Engineer :Ashton

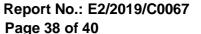
EUT Pol :H Plan



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBµV/m	dBμV/m	dB
4882.00	Average	18.50	13.76	32.26	54.00	-21.74
4882.00	Peak	29.38	13.76	43.14	74.00	-30.86

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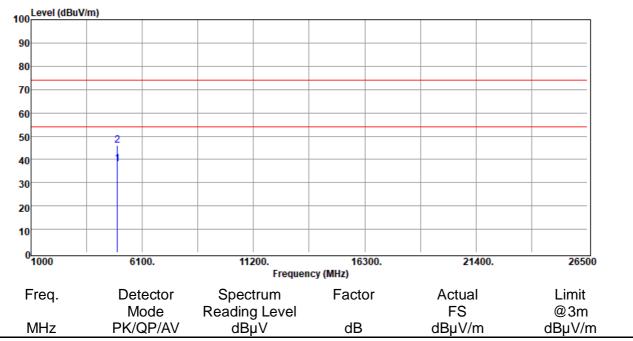
Report Number **Test Date** :2020-03-31 :E2/2019/C0067

Operation Mode :BT BR Temp./Humi. :24.7/62

Test Frequency :2480 MHz Antenna Pol. : VERTICAL

Test Mode :TX CH HIGH Engineer :Ashton

EUT Pol :H Plan



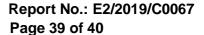
Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
 MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dBµV/m	dB
4960.00	Average	23.82	14.13	37.95	54.00	-16.05
4960.00	Peak	31.90	14.13	46.03	74.00	-27.97

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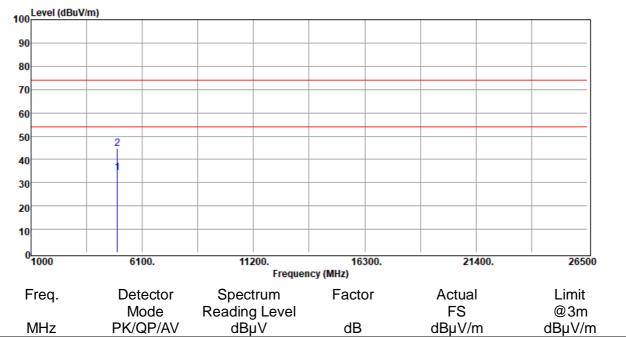
Report Number Test Date :2020-03-31 :E2/2019/C0067

Operation Mode :BT BR Temp./Humi. :24.7/62

Test Frequency :2480 MHz Antenna Pol. :HORIZONTAL

Test Mode :TX CH HIGH Engineer :Ashton

EUT Pol :H Plan



Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
PK/QP/AV	dΒμV	dB	dBµV/m	dBμV/m	dB
Average	20.17	14.13	34.30	54.00	-19.70
Peak	30.37	14.13	44.50	74.00	-29.50
	Mode PK/QP/AV Average	Mode Reading Level PK/QP/AV dBμV Average 20.17	Mode Reading Level PK/QP/AV dBμV dB Average 20.17 14.13	Mode Reading Level FS PK/QP/AV dBμV dB dBμV/m Average 20.17 14.13 34.30	Mode PK/QP/AV Reading Level ABμV FS dBμV/m @3m dBμV/m Average 20.17 14.13 34.30 54.00

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ANTENNA REQUIREMENT

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.

7.2 **Antenna Connected Construction**

The antenna is designed as permanently attached and no consideration of replacement. Please see EUT photo for details.

~ End of Report ~

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