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ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

CLASS II PC REPORT

OF

Applicant: Acer Incorporated

8F,88, Sec. 1, Hsin Tai Wu Rd. Hsichih, Taipei Hsien Taiwan

Product Name: 7c Modular Platform

Brand Name: acer

Model No.: QSIP7180

Model Difference: N/A

Report Number: E2/2020/B0010

FCC ID HLZQSIP7180Q

FCC Rule Part: §15.247, Cat: DTS

Issue Date: January 25, 2021

Date of Test: November 12, 2020 - January 25, 2021

Date of EUT Received: November 12, 2020

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 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:

Jay Lin / Asst. Supervisor





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Revision History				
Report Number	Revision	Description	Issue Date	Remark
E2/2020/B0011	Rev.00	Original.	January 25, 2021	Revised By: Tiffany Kao

Note:

1 · Disclaimer

Antenna information is provided by the applicant, test results of this report are applicable to the sample EUT received.

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1 GENERAL INFORMATION

1.1 Product Description

Product Name:	Notebook Computer
Brand Name:	acer
Model No. of Host:	N20Q4
Model Difference:	N/A
Hardware Version:	N/A
Software Version:	N/A
Model No. of BT/WLAN Module:	QSIP7180
Class II Permissive change:	7c Modular Platform INSTALLED IN Notebook Computer
Power Supply:	7.7Vdc from Rechargeable Li-ion Battery or 5 / 9 / 12 / 15 / 20 Vdc from AC/DC Adapter

Radio Technology:	Bluetooth LE Dual mode
Frequency Range:	2402 – 2480MHz
Channel number:	40 channels
Modulation type:	GFSK
Rated Power (Peak)	3.60dBm (1M) 3.66dBm (2M)

1.2 Antenna Designation

Antenna Type	Supplier	Mode	Main / Aux	Antenna Part No.	Freq.	Peak Antenna Gain (dBi)
PIFA	WNC	Tablet Mode	Main	N/A	2.4GHz	0.68

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1.3 Test Methodology of Applied Standards

FCC Part 15, Subpart C §15.247 FCC KDB 558074 D01 DTS Meas. Guidance v05r02 RSS-247 issue 2 Feb. 2017 RSS-Gen. issue 5, Amendment 1, March 2019 ANSI C63.10:2013

1.4 Test Facility

SGS Taiwan Ltd. Central RF Lab (TAF code 3702) No.2, Keji 1st Rd., Guishan District, Taoyuan City, Taiwan 333 FCC Designation number: TW0028

1.5 Special Accessories

There are no special accessories used while test was conducted.

1.6 Equipment Modifications

There was no modification incorporated into the EUT.

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2 SYSTEM TEST CONFIGURATION

2.1 EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

2.2 EUT Exercise

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

2.3 Test Procedure

2.3.1 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 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.

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)



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	Description Of Test	Result
§15.247(b) (3)	Peak Output Power	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

Charmole are previous for Blackeour EE				
FREQUENCY	ITEM	FREQUENCY	ITEM	FREQUENCY
2402 MHz	15	2430 MHz	29	2458 MHz
2404 MHz	16	2432 MHz	30	2460 MHz
2406 MHz	17	2434 MHz	31	2462 MHz
2408 MHz	18	2436 MHz	32	2464 MHz
2410 MHz	19	2438 MHz	33	2466 MHz
2412 MHz	20	2440 MHz	34	2468 MHz
2414 MHz	21	2442 MHz	35	2470 MHz
2416MHz	22	2444 MHz	36	2472 MHz
2418 MHz	23	2446 MHz	37	2474 MHz
2420 MHz	24	2448 MHz	38	2476 MHz
2422 MHz	25	2450 MHz	39	2478 MHz
2424 MHz	26	2452 MHz	40	2480 MHz
2426 MHz	27	2454 MHz		
2428 MHz	28	2456 MHz		
	FREQUENCY 2402 MHz 2404 MHz 2406 MHz 2408 MHz 2410 MHz 2412 MHz 2414 MHz 2416 MHz 2416 MHz 2424 MHz 2424 MHz 2426 MHz 2426 MHz	FREQUENCY ITEM 2402 MHz 15 2404 MHz 16 2406 MHz 17 2408 MHz 18 2410 MHz 19 2412 MHz 20 2414 MHz 21 2416MHz 21 2418 MHz 23 2420 MHz 24 2422 MHz 25 2424 MHz 26 2426 MHz 27	FREQUENCY ITEM FREQUENCY 2402 MHz 15 2430 MHz 2404 MHz 16 2432 MHz 2406 MHz 17 2434 MHz 2408 MHz 18 2436 MHz 2410 MHz 19 2438 MHz 2412 MHz 20 2440 MHz 2414 MHz 21 2442 MHz 2416 MHz 22 2444 MHz 2418 MHz 23 2446 MHz 2420 MHz 24 2448 MHz 2424 MHz 25 2450 MHz 2426 MHz 27 2454 MHz	FREQUENCY ITEM FREQUENCY ITEM 2402 MHz 15 2430 MHz 29 2404 MHz 16 2432 MHz 30 2406 MHz 17 2434 MHz 31 2408 MHz 18 2436 MHz 32 2410 MHz 19 2438 MHz 33 2412 MHz 20 2440 MHz 34 2414 MHz 21 2442 MHz 35 2416 MHz 22 2444 MHz 36 2418 MHz 23 2446 MHz 37 2420 MHz 24 2448 MHz 38 2422 MHz 25 2450 MHz 39 2424 MHz 26 2452 MHz 40 2426 MHz 27 2454 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		

Note: The field strength of radiation emission was measured as E1 Plane for channel Low, Mid and High.

	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	+/- 0.84 dB
Temperature	+/- 0.65 °C
Humidity	+/- 4.6 %
DC / AC Power Source	DC= +/- 0.13%, AC= +/- 0.2%

Radiated Spurious Emission Measurement Uncertainty			
	9kHz~30MHz: +-2.3dB		
	30MHz - 180MHz: +/- 3.37dB		
Polarization: Vertical	180MHz -417MHz: +/- 3.19dB		
Polarization, vertical	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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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 and the e.i.r.p. shall not exceed 4 W.

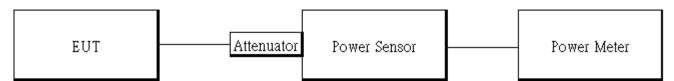
If the transmitting antenna of directional gain greater than 6dBi are used the peak output power form the intentional radiator shall be reduced below the above stated value by the amount in dB that the directional gain of the Antenna exceeds 6dBi.

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.				
Power Meter	Anritsu	ML2496A	1804002	04/06/2020	04/05/2021				
Power Sensor	Anritsu	MA2411B	1726105	04/06/2020	04/05/2021				
Power Sensor	Anritsu	MA2411B	1726106	04/06/2020	04/05/2021				
EXA Spectrum Ana- lyzer	KEYSIGHT	N9010A	MY57120290	02/20/2020	02/19/2021				
Attenuator	Marvelous	MVE2213-10	RF31	11/19/2020	11/18/2021				
DC Block	PASTER- NACK	PE8210	RF81	11/19/2020	11/18/2021				

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.
- Repeat above procedures until all test default channel measured was complete.

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Output Power: 6.5

6.5.1 Peak & Avg

BLE 1M mode:

СН	Frequency (MHz)	Peak Power Output (dBm)	Required Limit
Low	2402	1.84	1 Watt = 30 dBm
Mid	2442	3.60	1 Watt = 30 dBm
High	2480	2.70	1 Watt = 30 dBm
СН	Frequency (MHz)	Max. Avg. Output include tune up tolerance Power (dBm)	Required Limit
Low	2402	1.69	1 Watt = 30 dBm
Mid	2442	3.47	1 Watt = 30 dBm
High	2480	2.51	1 Watt = 30 dBm

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

BLE 2M mode:

СН	Frequency (MHz)	Peak Power Output (dBm)	Required Limit
0	2402	1,71	1 Watt = 30 dBm
20	2442	3.66	1 Watt = 30 dBm
39	2480	2.59	1 Watt = 30 dBm
BLE 2M mode:			
СН	Frequency (MHz)	Max. Avg. Output include tune up tolerance Power (dBm)	Required Limit
0	2402	1.65	1 Watt = 30 dBm
20	2442	3.47	1 Watt = 30 dBm
39	2480	2.51	1 Watt = 30 dBm

^{*}Note: Measured by power meter, cable loss as dB that offsets on the power meter in Peak

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^{*}Note: Measured by power meter, as cable loss+ Duty cycle factor that offsets on the power meter

^{*}Note: Max. Output include tune up tolerance Power is average power



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7 RADIATED BANDEDGE AND 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 and RSS-Gen §8.9 Table 5 and 6 limit as below.

And according to §15.33(a) (1) & RSS-Gen §6.13.2.a 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 $(dB\mu V/m) = 20 \log Emission level (dB\mu V/m)$

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7.2 Measurement Equipment Used

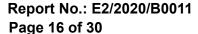
modean official Edulphion Cood								
966 Chamber								
EQUIPMENT	MFR	MODEL	SERIAL	LAST	CAL DUE.			
TYPE		NUMBER	NUMBER	CAL.				
Broadband Antenna	TESEQ	CBL 6112D	35240	09/08/2020	09/07/2021			
Horn Antenna	Schwarzbeck	BBHA9170	185	07/30/2020	07/29/2021			
Horn Antenna	Schwarzbeck	BBHA9120D	1187	01/11/2021	01/10/2022			
Loop Antenna	ETS.LINDGREN	6502	143303	04/28/2020	04/27/2021			
EMI Test Receiver	R&S	ESU 40	100363	04/29/2020	04/28/2021			
Pre-Amplifier	EMC Instruments	EMC330	980096	11/19/2020	11/18/2021			
Pre-Amplifier	EMC Instruments	EMC0011830	980199	11/19/2020	11/18/2021			
Pre-Amplifier	EMC Instruments	EMC184045B	980135	10/27/2020	10/26/2021			
Attenuator	Marvelous	WATT-218FS-10	RF20	11/19/2020	11/18/2021			
Coaxial Cable	Huber Suhner	SUCOFLEX 104	MY17388/4	11/19/2020	11/18/2021			
Coaxial Cable	Huber Suhner	RG 214/U	W22.03	11/19/2020	11/18/2021			

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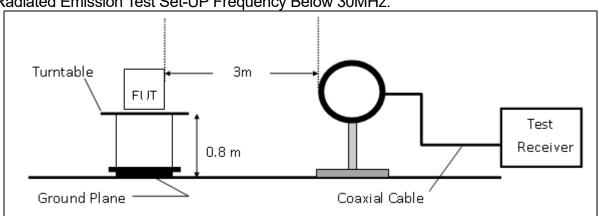
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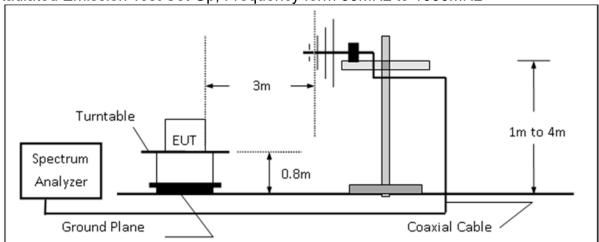


7.3 **Test SET-UP**

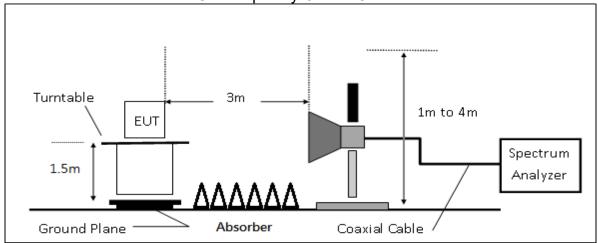
(A) Radiated Emission Test Set-UP Frequency Below 30MHz.



(B) Radiated Emission Test Set-Up, Frequency form 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 ≥ 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.

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

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

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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.

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7.7.1 Radiated Spurious Emission above 1GHz

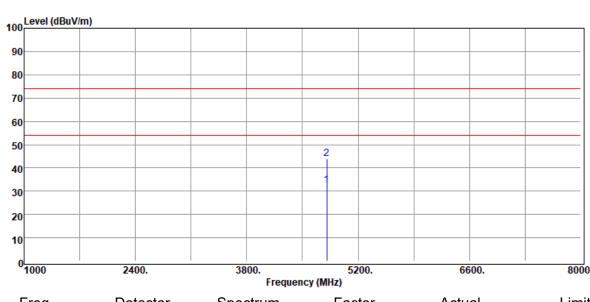
Report Number :E2/2020/B0010 Test Site :966 Chamber C

Operation Mode :BLE 1M Test Date :2021-01-22

Test Frequency :2402 MHz Temp./Humi. :21.2/62

Test Mode :TX CH LOW Antenna Pol. :VERTICAL

EUT Pol :E1 Plan Engineer :Enzo Chang



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBµV/m	dBμV/m	dB
4804.00	Average	18.55	14.07	32.62	54.00	-21.38
4804.00	Peak	29.95	14.07	44.02	74.00	-29.98

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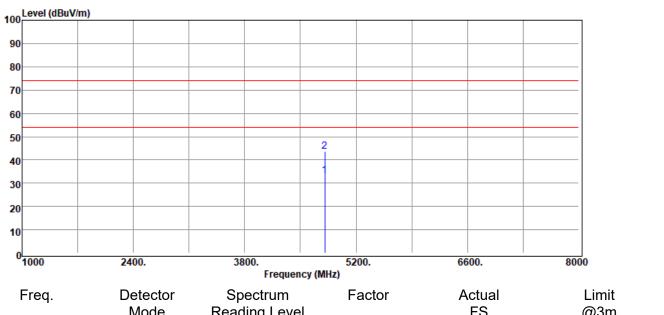
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Operation Mode :BLE 1M Test Date :2021-01-22

Test Frequency :2402 MHz Temp./Humi. :21.2/62

Test Mode :TX CH LOW Antenna Pol. :HORIZONTAL

EUT Pol :E1 Plan Engineer :Enzo Chang



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
4804.00	Average	19.02	14.07	33.09	54.00	-20.91
4804.00	Peak	29.41	14.07	43.48	74.00	-30.52

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4884.00

Peak

Report No.: E2/2020/B0011

74.00

-30.14

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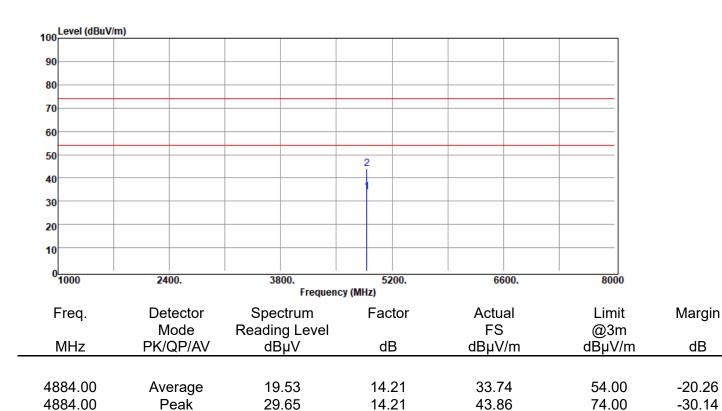
Report Number **Test Site** :966 Chamber C :E2/2020/B0010

Operation Mode :BLE 1M **Test Date** :2021-01-22

Test Frequency :2442 MHz Temp./Humi. :21.2/62

Test Mode :TX CH MID Antenna Pol. :VERTICAL

EUT Pol :E1 Plan Engineer :Enzo Chang



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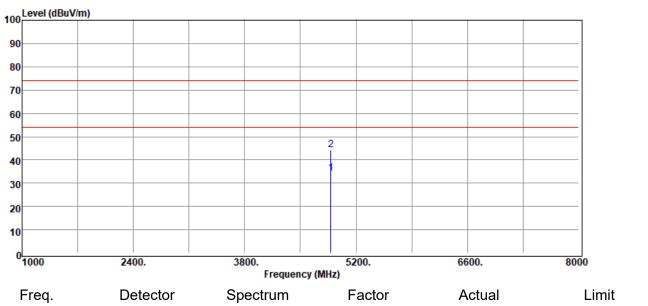
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Operation Mode :BLE 1M Test Date :2021-01-22

Test Frequency :2442 MHz Temp./Humi. :21.2/62

Test Mode :TX CH MID Antenna Pol. :HORIZONTAL

EUT Pol :E1 Plan Engineer :Enzo Chang



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBµV/m	dBμV/m	dB
						_
4884.00	Average	20.01	14.21	34.22	54.00	-19.78
4884.00	Peak	29.97	14.21	44.18	74.00	-29.82

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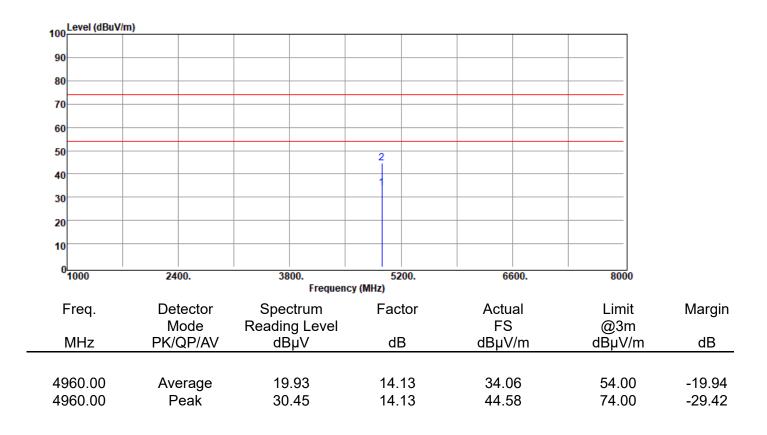
Report Number :E2/2020/B0010 Test Site :966 Chamber C

Operation Mode :BLE 1M Test Date :2021-01-22

Test Frequency :2480 MHz Temp./Humi. :21.2/62

Test Mode :TX CH HIGH Antenna Pol. :VERTICAL

EUT Pol :E1 Plan Engineer :Enzo Chang



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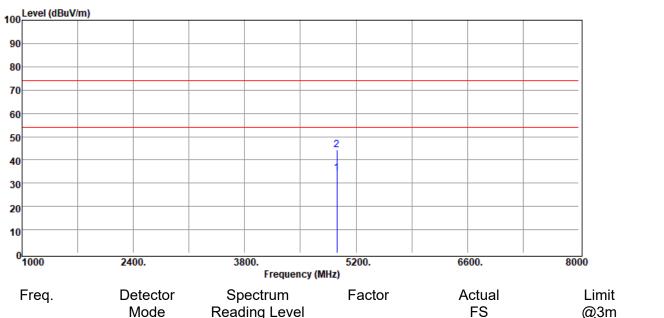
Report Number :E2/2020/B0010 Test Site :966 Chamber C

Operation Mode :BLE 1M Test Date :2021-01-22

Test Frequency :2480 MHz Temp./Humi. :21.2/62

Test Mode :TX CH HIGH Antenna Pol. :HORIZONTAL

EUT Pol :E1 Plan Engineer :Enzo Chang



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμ̈V	dB	dBµV/m	dBμV/m	dB
						_
4960.00	Average	20.14	14.13	34.27	54.00	-19.73
4960.00	Peak	30.01	14.13	44.14	74.00	-29.86

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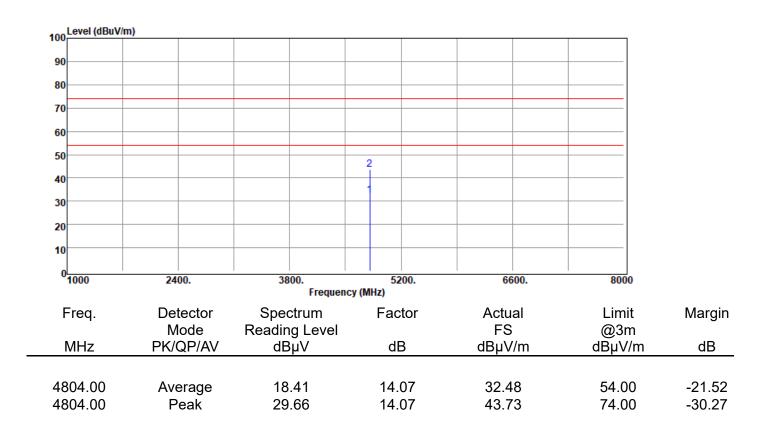
Report Number **Test Site** :966 Chamber C :E2/2020/B0010

Test Date Operation Mode :BLE 2M :2021-01-22

Test Frequency :2402 MHz Temp./Humi. :20.9/64

Test Mode :TX CH LOW Antenna Pol. :VERTICAL

EUT Pol :E1 Plan Engineer :Enzo Chang



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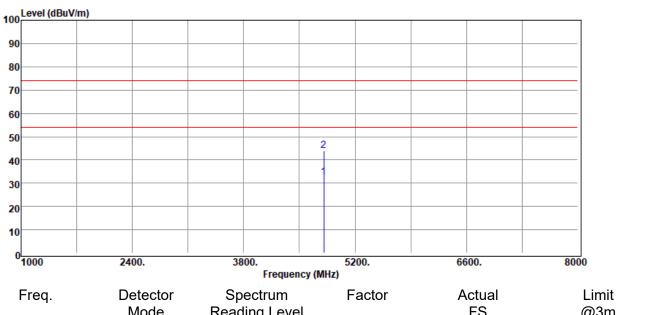
Report Number :E2/2020/B0010 Test Site :966 Chamber C

Operation Mode :BLE 2M Test Date :2021-01-22

Test Frequency :2402 MHz Temp./Humi. :20.9/64

Test Mode :TX CH LOW Antenna Pol. :HORIZONTAL

EUT Pol :E1 Plan Engineer :Enzo Chang



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
						_
4804.00	Average	18.38	14.07	32.45	54.00	-21.55
4804.00	Peak	29.83	14.07	43.90	74.00	-30.10

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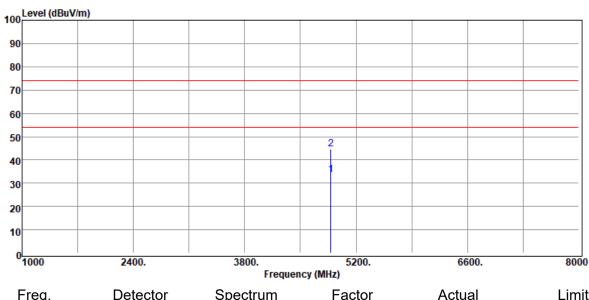
Report Number :E2/2020/B0010 Test Site :966 Chamber C

Operation Mode :BLE 2M Test Date :2021-01-22

Test Frequency :2442 MHz Temp./Humi. :20.9/64

Test Mode :TX CH MID Antenna Pol. :VERTICAL

EUT Pol :E1 Plan Engineer :Enzo Chang



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBµV/m	dBμV/m	dB
4884.00	Average	19.39	14.21	33.60	54.00	-20.40
4884.00	Peak	30.44	14.21	44.65	74.00	-29.35

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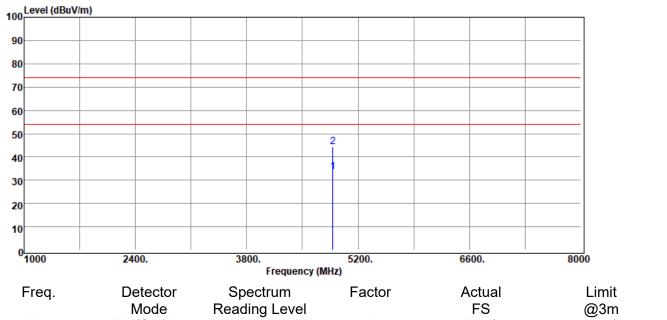
Report Number :E2/2020/B0010 Test Site :966 Chamber C

Operation Mode :BLE 2M Test Date :2021-01-22

Test Frequency :2442 MHz Temp./Humi. :20.9/64

Test Mode :TX CH MID Antenna Pol. :HORIZONTAL

EUT Pol :E1 Plan Engineer :Enzo Chang



Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
PK/QP/AV	dΒμV	dB	dBµV/m	dBμV/m	dB
					_
Average	19.30	14.21	33.51	54.00	-20.49
Peak	30.05	14.21	44.26	74.00	-29.74
	Mode PK/QP/AV Average	Mode Reading Level PK/QP/AV dBμV Average 19.30	Mode Reading Level PK/QP/AV dBµV dB Average 19.30 14.21	Mode PK/QP/AV Reading Level Reading R	Mode PK/QP/AV Reading Level dBμV FS dBμV/m @3m dBμV/m Average 19.30 14.21 33.51 54.00

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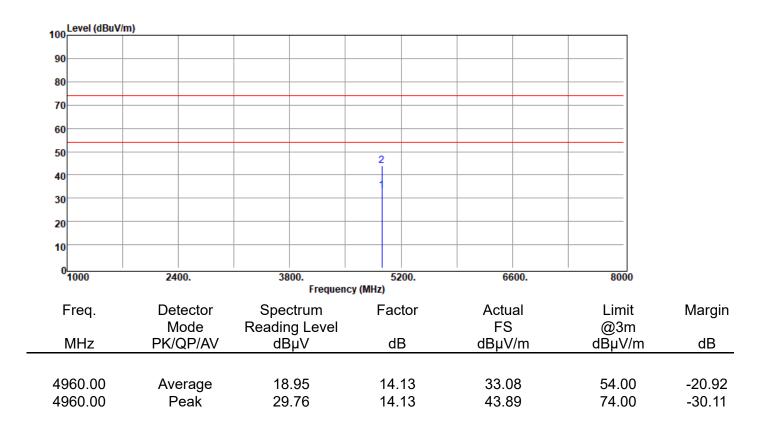
Report Number :E2/2020/B0010 Test Site :966 Chamber C

Operation Mode :BLE 2M Test Date :2021-01-22

Test Frequency :2480 MHz Temp./Humi. :20.9/64

Test Mode :TX CH HIGH Antenna Pol. :VERTICAL

EUT Pol :E1 Plan Engineer :Enzo Chang



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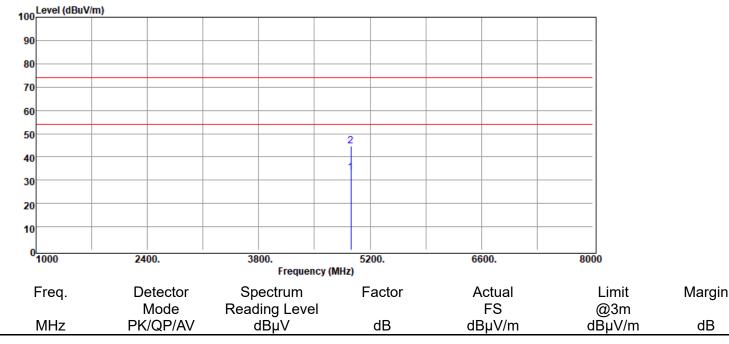
Report Number :E2/2020/B0010 Test Site :966 Chamber C

Operation Mode :BLE 2M Test Date :2021-01-22

Test Frequency :2480 MHz Temp./Humi. :20.9/64

Test Mode :TX CH HIGH Antenna Pol. :HORIZONTAL

EUT Pol :E1 Plan Engineer :Enzo Chang



MHz	Mode PK/QP/AV	Reading Level dBµV	dB	FS dBµV/m	@3m dBµV/m	dB
4960.00	Average	19.22	14.13	33.35	54.00	-20.65
4960.00	Peak	30.65	14.13	44.78	74.00	-29.22

~ End of Report ~

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