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# **ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT**





**FCC Applicant:** Quanta Computer Inc

No.188, Wenhua 2nd Rd., Guishan Dist., Taoyuan City 33377,

Taiwan (R.O.C)

All-in-One PC **Product Name:** 

HP **Brand Name:** 

Model No.: TPC-Q084-34

**Model Difference:** N/A

**Report Number:** E2/2021/40051

**FCC ID HFSQTA-NZG** 

**Issue Date:** May 20, 2021

**Date of Test:** April 27, 2021 - May 13, 2021

Date of EUT Received: April 27, 2021

Approved By

## 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 §15C.

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Revision History						
Report Number	Revision	Description	Issue Date	Revised By		
E2/2021/40051	00	Original.	May 20, 2021	Yami Kuo		

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## **GENERAL INFORMATION**

## 1.1 Product Description

Product Name:	All-in-One PC
Brand Name:	HP
Model No.:	TPC-Q084-34
Model Difference:	N/A
Hardware Version:	N/A
Firmware Version:	N/A
Power Supply:	19.5 Vdc from AC/DC Adapter

## 1.2 RF Specification

Technoligy:	Wireless Power Transfer
Operating Frequency	110kHz – 205KHz
FCC Transmit Power	< 81.49dBuV/m at 3m.
Number of Channels	1
Antenna Type	Loop Antenna

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## 1.3 Test Methodology

FCC Part 15, Subpart C ANSI C63.10:2013

## 1.4 Test Facility

Laboratory	Test Site Address	Test Site Name	FCC Designation number	IC CAB identifier
		SAC 1		
		SAC 3		
		Conduction 1		
	No.134, Wu Kung Road, New Taipei	Conducted 1		
	Industrial Park, Wuku District, New	Conducted 2	TW0027	
	Taipei City, Taiwan.	Conducted 3		
		Conducted 4		
		Conducted 5	_	
SGS Taiwan Ltd.		Conducted 6		
Central RF Lab.	No.2, Keji 1st Rd., Guishan District,	Conduction A		TW3702
(TAF code 3702)		SAC C		1003702
(1711 0000 0702)		SAC D		
		SAC G		
		Conducted A		
	Taoyuan City, Taiwan 333	Conducted B	TW0028	
	Taoyaan oity, Taiwan ooo	Conducted C		
		Conducted D		
		Conducted E		
		Conducted F		
		Conducted G		

Note: Test site name is remarked on the equipment list in each section of this report as an indication where measurements occurred in specific test site and address.

### 1.5 Special Accessories

There is no special accessory used while test was conducted.

### 1.6 Equipment Modifications

There was no modification incorporated into the EUT.

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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

The Transmitter was operated in the normal operating mode. The Tx frequency was fixed which was for the purpose of the measurements.

#### 2.3 Test Procedure

#### 2.3.1 Conducted Emissions

The EUT is a placed on a table which is 0.8 m above ground plane. Conducted emissions from the EUT measured in the frequency range between 9kHz and 30MHz. The CISPR Quasi-Peak and Average detector mode is employed. The two LISNs provide 50uH/50 ohm 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 a turn table. For emissions testing at or below 1 GHz, the table height shall be 0.8 m above the reference ground plane. 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 radiated emissions, 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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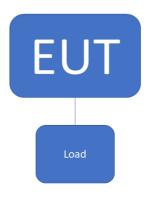
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## 2.4 Configuration of Tested System

Fig. 2-1 Conduction & Radiated Emission test set up configuration



**Table 2-1 Equipment Used in Tested System** 

Ite m	Equipment	Mfr/Brand	Model/Type No.	Series No.	Data Cable	Power Cord
1.	WPC Test Software	N/A	N/A	N/A	N/A	N/A

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### **SUMMARY OF TEST RESULTS**

FCC Rules	Description Of Test	Result
§15.207	AC Power Line Conducted Emission	Compliant
§15.209	Radiated Emission Limits, general requirement	Compliant
§15.215 (c)	20 dB OCCUPIED BANDWIDTH	Compliant
§15.203	Antenna Requirement	Compliant

#### **DESCRIPTION OF TEST MODES**

The EUT stay in continuous transmitting mode. The frequency is the default channel to test, where it is the only manipulative channel as this application supports.

The field strength of radiation emission was measured as EUT three orthogonal plans, E1 / E2 / H, are positioned to pre-scan the emission generating the highest one. The worst position is tested, and recorded.

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### **MEASUREMENT UNCERTAINTY**

Test Items Uncertaint		nty	
AC Power Line Conducted Emission	+/-	2.34	dB
Frequency Stability	+/-	1.53	Hz
Emission Bandwidth	+/-	1.53	Hz
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	
	+/-	2.64	dB	9kHz~30MHz	
Polarization: Horizontal	+/-	4.45	dB	30MHz - 1000MHz	
Polarization: Horizontal	+/-	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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### **CONDUCTED EMISSIONS TEST**

#### 6.1 Limitation

According to section 15.207(a) Conducted Emission Limits as following.

7 toooraning to occurr	10:207 (a) Conducted Enhouse	n Ennite de l'eneving.			
		Limits			
Frequency range	dB (uV)				
MHz	Quasi-peak	Average			
0.15 to 0.50	66 to 56	56 to 46			
0.50 to 5	56	46			
5 to 30	60	50			
	-				

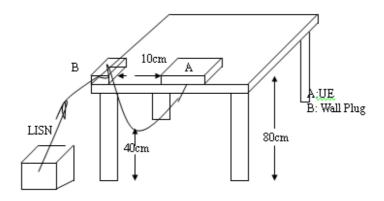
#### Note

- 1. The lower limit shall apply at the transition frequencies
- 2. The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.

## 6.2 EUT Setup

- 1. The conducted emission tests were performed in the test site, using the setup in accordance with the ANSI C63.10:2013.
- 2. The AC/DC Power adaptor of EUT was plug-in LISN. The EUT was placed flushed with the rear of the table.
- 3. The LISN was connected with 120Vac/60Hz power source.

### 6.3 Test SET-UP (Block Diagram of Configuration)



### 6.4 Measurement Procedure

- 1. The EUT was placed on a table which is 0.8m above ground plane.
- 2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
- 3. Repeat above procedures until all frequency measured were complete.

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## 6.5 Measurement Equipment Used:

Radiated Emission Test Site: Conduction A								
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.			
Test Software	audix	e3	Ver. 6.11- 20180419c	N.C.R	N.C.R			
LISN	SCHWARZBECK Mess- Elektronik	NSLK8127	973	03/25/2021	03/24/2022			
EMI Test Receiver	R&S	ESCI	101342	04/27/2021	04/26/2022			
Coaxial Cable	EC Lab	RF-HY- CAB-250	RF-HY-CAB- 250-01	03/27/2021	03/26/2022			
Pulse Limiter	EC Lab	VTSD 9561F-N	485	03/27/2021	03/26/2022			

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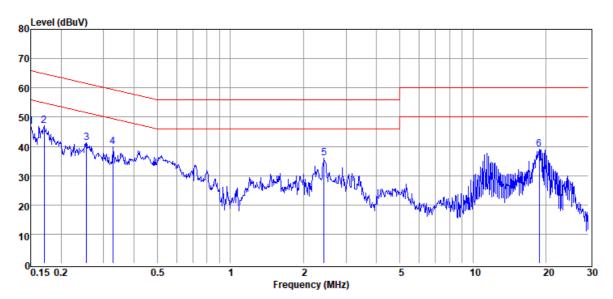
#### 6.6 Measurement Result:

Report Number :E2/2021/40051 Test Site :Conduction Room C

Test Mode :WPC Test Date :2021-05-10

Power :120V/60Hz Temp./Humi. :23.8/59

Probe :L1 Engineer :Ashton Chiu



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit	Margin
MHz	PK/QP/AV	dΒμV	dB	dΒμV	dΒμV	dB
0.15	Peak	36.60	10.30	46.90	66.00	-19.10
0.17	Peak	36.73	10.30	47.03	64.94	-17.91
0.25	Peak	30.95	10.31	41.26	61.60	-20.34
0.33	Peak	29.44	10.30	39.74	59.53	-19.79
2.44	Peak	24.95	11.03	35.98	56.00	-20.02
18.72	Peak	28.09	10.85	38.94	60.00	-21.06

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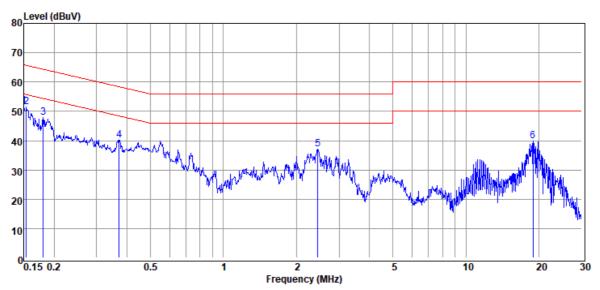
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Report Number :E2/2021/40051 Test Site :Conduction Room C

:WPC Test Mode **Test Date** :2021-05-10

Power :120V/60Hz Temp./Humi. :23.8/59

Probe :N Engineer :Ashton Chiu



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit	Margin
MHz	PK/QP/AV	dΒμV	dB	dΒμV	dΒμV	dB
0.15	Peak	41.50	10.31	51.81	66.00	-14.19
0.15	Peak	41.24	10.31	51.55	65.78	-14.23
0.18	Peak	37.51	10.30	47.81	64.46	-16.65
0.37	Peak	29.85	10.31	40.16	58.47	-18.31
2.45	Peak	26.11	11.04	37.15	56.00	-18.85
18.92	Peak	28.82	10.95	39.77	60.00	-20.23

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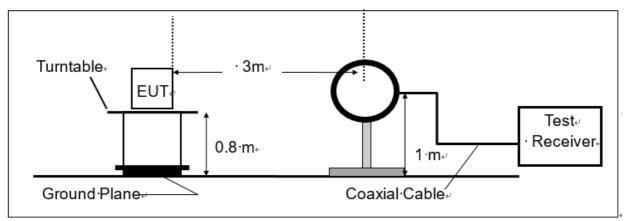
### RADIATED EMISSION TEST

#### 7.1 Measurement Procedure

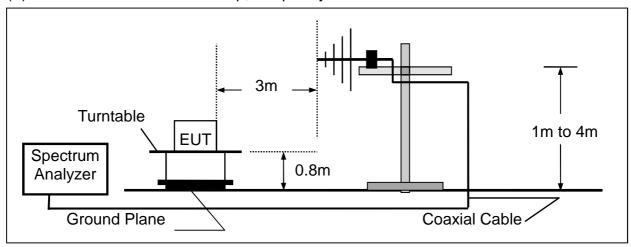
- 1. The EUT was placed on a turn table which is 0.8m above ground plane.
- Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
- 3. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.

## 7.2 Test SET-UP (Block Diagram of Configuration)

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



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



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## 7.3 Measurement Equipment Used:

· ·									
Radiated Emission Test Site: SAC C									
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.				
Broadband Antenna	TESEQ	CBL 6112D	35240	09/08/2020	09/07/2021				
Loop Antenna	ETS.LINDGREN	6502	148045	10/19/2020	10/18/2021				
EMI Test Receiver	R&S	ESU 40	100363	04/28/2021	04/27/2022				
Pre-Amplifier	EMC Instruments	EMC330	980096	11/19/2020	11/18/2021				
Coaxial Cable	Huber Suhner	RG 214/U	W22.03	11/19/2020	11/18/2021				
Test Software	audix	e3	20923 sgs Ver.9	N.C.R	N.C.R				
DC Power Supply	DHA	DPS-3003	9411005787	08/19/2020	08/18/2021				

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## 7.4 FCC Applicable Standard

The field strength of any emissions appearing outside of operation frequency shall not exceed the general radiated emission limits in section 15.209 as below.

Frequency (MHz)	Field strength (μV/m)	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:

- Emission level in dB<sub>μ</sub>V/m=20 log (μV/m)
- 2. Distance extrapolation factor = 40 log (required distance/ test distance) (dB)
- 3.  $20*\log(30uV/m) + 40dB = 69.54 dBuV/m$
- 4. The lower limit shall apply at the transition frequencies.
- The measurement was undertaken in closer distance at 3m, where extrapolation factor is offset to convert the limit of the measurement.
- 6. Only spurious frequency is permitted to locate within the Restricted Bands specified in provision of §15.205.
- 7. The general radiated emission limits in §15.209 apply for the spurious emission generate from UE, except for the fundamental emission where the respective section specifies otherwise.
- Actual FS(dB $\mu$ V/m) = Spectrum. Reading level(dB $\mu$ V) + Factor(dB) Factor(dB) = Antenna Factor(dB) + Cable Loss(dB) - Pre\_Amplifier Gain(dB)

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### 7.5 FCC Test Result

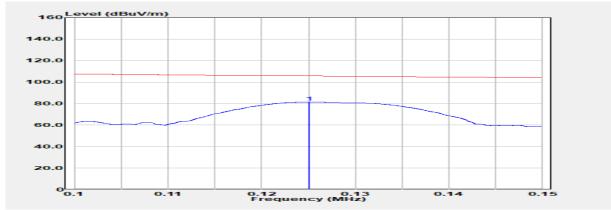
## 7.5.1 Field Strength of Fundamental Emission

Report Number :E2/2021/40051 Test Site :966 Chamber C

Operation Mode: WPC Test Date: 2021-04-29

Test Frequency :125 KHz Temp./Humi. :21.5/66
Test Mode :Main Antenna Pol. :Vertical

EUT Pol :H Plane Engineer :Ashton Chiu



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
 MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
0.125	Peak	70.78	10.70	81.49	105.67	-24.18

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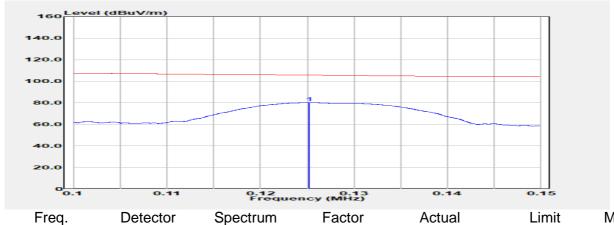
Test Site :966 Chamber C Report Number :E2/2021/40051

Operation Mode: WPC **Test Date** :2021-04-29

Test Frequency :125 KHz Temp./Humi. :21.5/66

Test Mode :Main Antenna Pol. :Horizontal

**EUT Pol** :H Plane :Ashton Chiu Engineer



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
0.125	Peak	69 44	10.70	80.14	105.66	-25.52

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#### 7.5.2 Below 30 MHz test result

Test Site :966 Chamber C Report Number :E2/2021/40051

Operation Mode: WPC Test Date :2021-04-29

Test Frequency :125 KHz Temp./Humi. :21.5/66

Test Mode :Tx Antenna Pol. :Vertical

**EUT Pol** :H Plane :Ashton Chiu Engineer



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
						_
0.250	Peak	59.65	11.12	70.77	99.65	-28.88
0.375	Peak	49.44	11.24	60.68	96.12	-35.44
0.500	Peak	40.68	11.26	51.93	73.62	-21.69
0.625	Peak	40.88	11.24	52.12	71.70	-19.58
0.750	Peak	34.41	11.22	45.63	70.10	-24.47
0.875	Peak	36.75	11.21	47.96	68.77	-20.81

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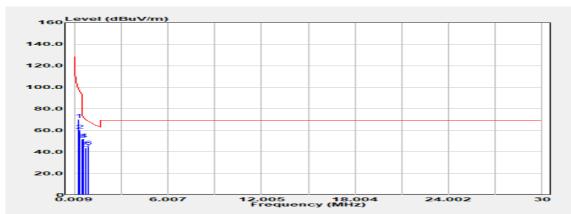
Test Site :966 Chamber C Report Number :E2/2021/40051

Operation Mode: WPC **Test Date** :2021-04-29

Test Frequency :125 KHz Temp./Humi. :21.5/66

Test Mode :Tx Antenna Pol. :Horizontal

**EUT Pol** :H Plane :Ashton Chiu Engineer



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
0.250	Peak	58.99	11.12	70.11	99.65	-29.54
0.375	Peak	48.93	11.24	60.16	96.12	-35.96
0.500	Peak	40.38	11.26	51.64	73.62	-21.98
0.625	Peak	40.78	11.24	52.01	71.70	-19.68
0.750	Peak	32.62	11.22	43.84	70.10	-26.26
0.875	Peak	34.06	11.21	45.26	68.77	-23.51

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#### 7.5.3 FCC Above 30MHz test result

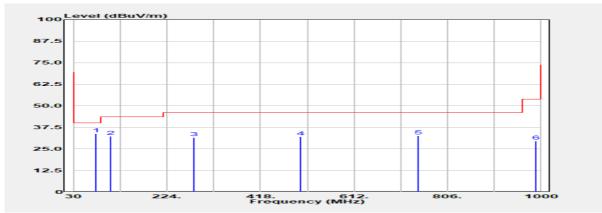
Test Site :966 Chamber C Report Number :E2/2021/40051

Operation Mode: WPC Test Date :2021-04-29

Test Frequency :125 KHz Temp./Humi. :21.4/65

Test Mode :Tx Antenna Pol. :Vertical

**EUT Pol** :H Plane :Ashton Chiu Engineer



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
76.560	QP	55.50	-21.75	33.75	40.00	-6.25
106.630	QP	51.00	-18.55	32.45	43.50	-11.05
279.290	Peak	47.37	-15.69	31.68	46.00	-14.32
500.450	Peak	42.70	-10.66	32.04	46.00	-13.96
745.860	Peak	40.47	-7.91	32.56	46.00	-13.44
989.330	Peak	34.48	-4.83	29.65	54.00	-24.35

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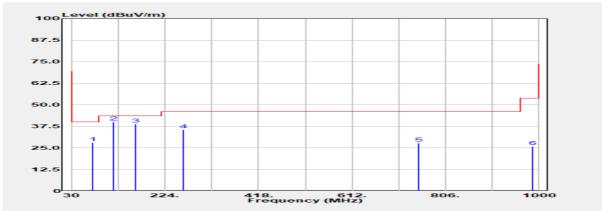
Test Site :966 Chamber C Report Number :E2/2021/40051

Operation Mode: WPC **Test Date** :2021-04-29

Test Frequency :125 KHz Temp./Humi. :21.4/65

Test Mode :Tx Antenna Pol. :Horizontal

**EUT Pol** :H Plane :Ashton Chiu Engineer



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
74.620	QP	50.10	-21.96	28.14	40.00	-11.86
118.270	QP	57.20	-17.17	40.03	43.50	-3.47
163.860	QP	58.32	-19.49	38.83	43.50	-4.67
261.830	Peak	50.77	-15.11	35.66	46.00	-10.34
750.710	Peak	35.11	-7.35	27.76	46.00	-18.24
987.390	Peak	30.83	-5.01	25.82	54.00	-28.18

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### 20 dB OCCUPIED BANDWIDTH MEASUREMENT

#### 8.1 Standard Applicable:

§2.1049 & §15.215 (c)

#### 8.2 Limit:

None

## 8.3 Test Set-up

Refer to section 6.2 in this report

#### **8.4 Measurement Procedure**

20dB bandwidth

- 1. The transmitter output (antenna port) was connected to the spectrum analyzer in peak
- 2. 20dB Bandwidth the resolution bandwidth of 200 Hz and the video bandwidth of 1 kHz were used.
- 3. Measured the spectrum width with power higher than 20dB below carrier.

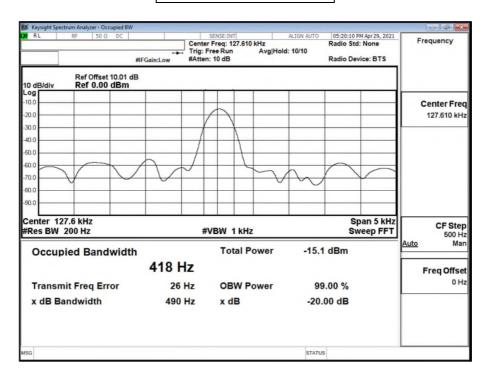
## 8.5 Measurement Equipment Used:

Refer to section 7.3 in this report

#### 8.6 Measurement Result

#### -20dB Bandwidth

20dB Bandwidth 490 Hz



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### ANTENNA REQUIREMENT

### 9.1 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.

#### 9.2 Antenna Connected Construction:

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

~ End of Report ~

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