

Page: 1 of 34

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT





Applicant: Quanta Computer Inc.

No. 188, Wenhua 2nd Road, Guishan District, Taoyuan City

33377, Taiwan

Product Name: Clover Station Pro Terminal

Brand Name: clover Model No.: C503

HVIN: C503W

Model Difference: N/A

Report Number: E2/2021/60099

FCC ID HFS-CX03W

IC: 1787B-CX03W

Issue Date: Aug. 03, 2021

Date of Test: Jul. 01, 2021 ~ Jul. 12, 2021

Date of EUT Received: Jul. 01, 2021

Approved By

We hereby certify that:

SGS Taiwan Ltd.

The above equipment was tested by SGS Taiwan Ltd. Central RF Lab The test data. data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10:2013 and the energy emitted by the sample EUT comply with FCC rule part §15.225, ISED RSS-210.

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

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Page: 2 of 34

Revision History							
Report Number	Revision	Description	Issue Date	Revised By			
E2/2021/60099	Rev.00	Original.	Aug. 03, 2021	Yi-Shan Tsai			

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Page: 3 of 34

Table of Contents

1	GENERAL INFORMATION	. 4
2	SYSTEM TEST CONFIGURATION	. 6
3	SUMMARY OF TEST RESULTS	. 8
4	DESCRIPTION OF TEST MODES	. 9
5	MEASUREMENT UNCERTAINTY	10
6	CONDUCTED EMISSIONS TEST	.11
7	RADIATED EMISSION TEST	15
8	FREQUENCY STABILITY	.28
9	EMISSION BANDWIDTH MEASUREMENT	.32
10	ANTENNA REQUIREMENT	34

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Page: 4 of 34

GENERAL INFORMATION

1.1 **Product Description**

Product Name:	Clover Station Pro Terminal
Brand Name:	clover
Model No.:	C503
HVIN:	C503W
Model Difference:	N/A
Hardware Version:	C503W
Firmware Version:	N/A
EUT Series No.:	PJ216216001 (Radiated) C053UQ11620145 (Conducted) C153UQ11620149 (Conduction)
Power Supply:	12V from AC/DC Adapter

1.2 RF specification

Radio Technology:	NFC
Operating Frequency	13.56MHz
Transmit Power	< 123dBuV/m at 30m.
Number of Channels	1
Modulation Type	ASK
Antenna Type	Loop

Note: Antenna information is provided by the applicant.

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Page: 5 of 34

1.3 **Test Methodology**

FCC Part 15, Subpart C §15.225

RSS-210 issue 10 Annex B B.6 Dec. 2019

RSS-Gen Issue 5

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	TW3702
	Taipei City, Taiwan.	Conducted 3]	
		Conducted 4		
		Conducted 5	_	
SGS Taiwan Ltd.		Conducted 6		
Central RF Lab.		Conduction A		
(TAF code 3702)		SAC C		
(1A1 Code 3702)		SAC D		
		SAC G		
	No 2 Kaji 1at Dd. Cujahan Diatriat	Conducted A		
	No.2, Keji 1st Rd., Guishan District, Taoyuan City, Taiwan 333	Conducted B	TW0028	
	ladyuan City, Taiwan 333	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 other accessory attached. This is the worst case condition.

1.6 **Equipment Modifications**

There was no modification incorporated into the EUT.

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Page: 6 of 34

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

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 0.15 MHz 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. 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.

2.3.3 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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Page: 7 of 34

2.4 **Configuration of Tested System**

Fig. 2-1 Emission test set up configuration



Fig. 2-2 Conduction test set up configuration



Fig. 2-3 Radiated Emission

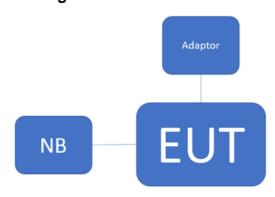


Table 2-1 Equipment Used in Tested System

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Data Cable	Power Cord
1.	NFC Test Software	N/A	N/A	N/A	N/A	N/A
2.	Adapter	clover	FSP040-RHBN3	N/A	N/A	N/A
3.	Notebook	Lenovo	L440	P0000367	N/A	N/A

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Page: 8 of 34

SUMMARY OF TEST RESULTS

FCC Rules	ISED Rules	Description Of Test	Result
§15.207	RSS-Gen § 8.8	AC Power Line Conducted Emission	Compliant
§15.225 (a)-(d)	RSS210 Annex B B.6	Radiated Emission	Compliant
§15.209	RSS-Gen § 8.9	Radiated Emission Limits, general requirement	Compliant
§15.225 (e)	RSS210 Annex B B.6 (b)	Frequency Stability	Compliant
§2.1049 §15.215 (c)	RSS-Gen § 6.7	Emission Bandwidth	Compliant
§15.203	N/A	Antenna Requirement	Compliant

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Page: 9 of 34

DESCRIPTION OF TEST MODES

4.1 The Worst Test Modes and Channel Details

- 1. The EUT stay in continuous transmission mode.
- 2. The frequency 13.56 MHz is the default channel to test, where it is the only manipulative channel as this application supports.
- 3. Only one configuration is supported/applicable as follows.

RADIATED EMISSION TEST							
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION				
NFC	1	1	ASK				
FREQUENCY STABILITY							
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION				
NFC	1	1	ASK				
	20dB BAN	IDWIDTH					
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION				
NFC	1	1	ASK				

The field strength of radiation emission was measured as EUT three orthogonal planes, 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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Page: 10 of 34

MEASUREMENT UNCERTAINTY

Test Items	Unc	ertainty	•
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						
	+/-	2.64	dB	9kHz~30MHz		
Polarization: Vertical	+/-	4.93	dB	30MHz - 1000MHz		
Polarization, vertical	+/-	4.81	dB	1GHz - 18GHz		
	+/-	4.52	dB	18GHz - 40GHz		
	+/-	2.64	dB	9kHz~30MHz		
Polarization: Horizontal	+/-	4.45	dB	30MHz - 1000MHz		
Folarization: Horizontal	+/-	4.81	dB	1GHz - 18GHz		
	+/-	4.52	dB	18GHz - 40GHz		

- 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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Page: 11 of 34

CONDUCTED EMISSIONS TEST

6.1 Standard Applicable

According to §15.207 and frequency within 150 kHz to 30MHz shall not exceed the limit table as below.

40 0010111					
Erogueney rango	Limits (dBuV)				
Frequency range	(ui	buv)			
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

6.2 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			

6.3 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.

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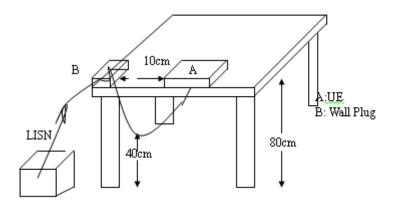
^{1.} The lower limit shall apply at the transition frequencies

^{2.} The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.



Page: 12 of 34

6.4 Test SET-UP (Block Diagram of Configuration)



6.5 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.

6.6 Measurement Result

Note: Refer to next page for measurement data and plots.

Note2: The * reveals the worst-case results that closet to the limit.

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Page: 13 of 34

AC POWER LINE CONDUCTED EMISSION TEST DATA

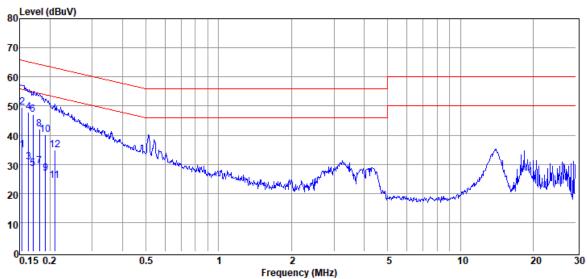
Report Number :E2/2021/60099 Test Site :Conduction Room C

Test Mode :NFC **Test Date** :2021-07-09

Power :120V/60Hz Temp./Humi. :24.8/54

Probe :L1 Engineer :Ashton Chiu

Note: : Adapter:FSP040-RHBN3



			, , , , , , ,			
Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV	dΒμV	dB
0.15	Average	24.62	10.30	34.92	55.81	-20.89
0.15	QP	39.37	10.30	49.67	65.81	-16.14
0.16	Average	20.46	10.30	30.76	55.29	-24.53
0.16	QP	37.46	10.30	47.76	65.29	-17.53
0.17	Average	18.27	10.30	28.57	54.92	-26.35
0.17	QP	36.87	10.30	47.17	64.92	-17.75
0.18	Average	19.25	10.22	29.47	54.42	-24.95
0.18	QP	31.85	10.22	42.07	64.42	-22.35
0.19	Average	16.53	10.22	26.75	53.93	-27.18
0.19	QP	29.83	10.22	40.05	63.93	-23.88
0.21	Average	14.25	10.22	24.47	53.23	-28.76
0.21	QP	24.53	10.22	34.75	63.23	-28.48

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Page: 14 of 34

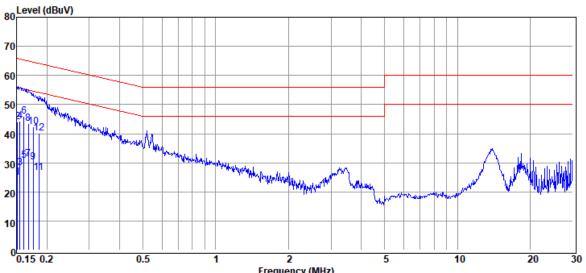
Report Number :E2/2021/60099 Test Site :Conduction Room C

Test Mode :NFC **Test Date** :2021-07-09

:120V/60Hz Power Temp./Humi. :24.8/54

Probe :N Engineer :Ashton Chiu

Note: : Adapter:FSP040-RHBN3



0.13 0.2	0.3	Free	quency (MHz)	3 10	20	30
Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit	Margin
MHz	PK/QP/AV	dΒμV	dB	dΒμV	dΒμV	dB
0.15	Average	14.53	10.31	24.84	55.91	-31.07
0.15	QP	33.76	10.31	44.07	65.91	-21.84
0.16	Average	17.91	10.31	28.22	55.71	-27.49
0.16	QP	34.02	10.31	44.33	65.71	-21.38
0.16	Average	20.48	10.31	30.79	55.42	-24.63
0.16	QP	35.63	10.31	45.94	65.42	-19.48
0.17	Average	21.13	10.21	31.34	55.08	-23.74
0.17	QP	33.32	10.21	43.53	65.08	-21.55
0.18	Average	19.92	10.21	30.13	54.68	-24.55
0.18	QP	32.11	10.21	42.32	64.68	-22.36
0.19	Average	16.26	10.21	26.47	54.24	-27.77
0.19	QP	29.85	10.21	40.06	64.24	-24.18

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Page: 15 of 34

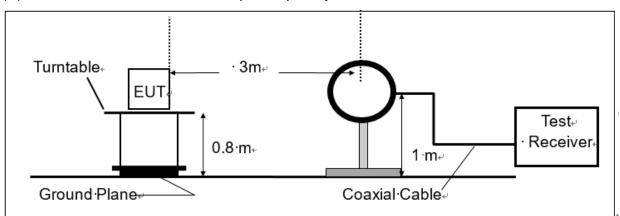
RADIATED EMISSION TEST

7.1 **Measurement Procedure**

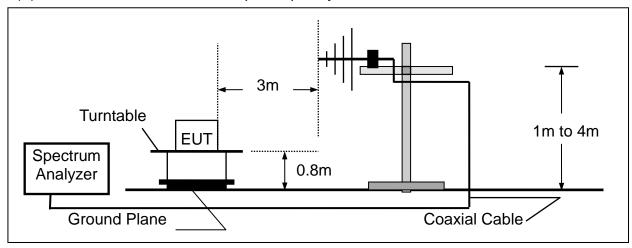
- 1. Configure the EUT according to ANSI C63.10.
- 2. The EUT was placed on a turn table which is 0.8m above ground plane and been measured in the frequency range between 0.009MHz to 30MHz and 30MHz to 1GHz.
- 3. The turn table shall rotate 360 degrees to determine the position of maximum emission level.
- 4. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emission.
- 5. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
- 6. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
- 7. Repeat above procedures until all default test channel measured were complete.

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 From 30MHz to 1000MHz



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Page: 16 of 34

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	143303	05/07/2021	05/06/2022					
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					

7.4 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	

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Page: 17 of 34

7.5 Field Strength of Fundamental Emission

7.5.1 Applicable standard

Rules and specifiactions	CFR 47 Part 15 section 15.225(a)-(d)			
Frequency of Emission (MHz)	Field Strength (µV/m)at 30m	Field Strength (dBµV/m)at 30m		
1.705~13.110	30	29.5		
13.110~13.410	106	40.5		
13.410~13.553	334	50.5		
13.553~13.567	15848	84		
13.567~13.710	334	50.5		
13.710~14.010	106	40.5		
14.010~30.00	30	29.5		

Radiated Mask per ISED RSS 210 Annex B B6

- (a) 15.848 millivolts/m (84 dBµV/m) at 30 m, within the band 13.553-13.567 MHz.
- (b) 334 microvolts/m (50.5 dB μ V/m) at 30 m, within the bands 13.410-13.553 MHz and 13.567-13.710 MHz.
- (c) 106 microvolts/m (40.5 dB μ V/m) at 30 m, within the bands 13.110-13.410 MHz and 13.710-14.010 MHz.
- (d) RSS-Gen general field strength limits for frequencies outside the band 13.110-14.010 MHz

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Page: 18 of 34

7.5.2 **Distance Extrapolation Factor**

30m to 3m

Distance extrapolation = $40 \cdot \log (30/3) = 40 \text{ dB}$

30m to 10m

Distance extrapolation = $40 \cdot \log (30/10) = 19.08 \text{ dB}$

10m to 3m

Distance extrapolation = 40 * log (10/3) = 20.92 dB

Note:

- 1. Distance extrapolation factor = 40 log (required distance/ test distance) (dB)
- 2. The lower limit shall apply at the transition frequencies.
- 3. KDB 414788 D01 OATS and 3m semi-anechoic chamber Justification: Base on FCC 15.31 (f) (2): measurements may be performed at a distance closer than that specified in the regulations; however, an attempt should be made to avoid making measurements in the near field. OATS and 3m SAC chamber testing had been performed and 3m SAC measured test result is the worst case test result.

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

Below 30 MHz of Factor(dB) = Antenna Factor(dBµV/m) + Cable Loss(dB) - Distance Factor (dB)

Above 30 MHz of Factor(dB) = Antenna Factor(dBµV/m) + Cable Loss(dB) - Pre_Amp Gain (dB)

The trace on RE(radiation emission) plot is as colored blue, and the detection manner we've employed is peak detector.

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Page: 19 of 34

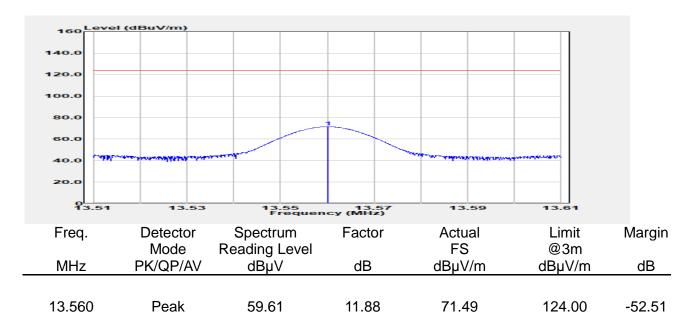
7.5.3 Field Strength of Fundamental Emission Measurement Result

Report Number :E2/2021/60099 Test Site :966 Chamber C

Operation Mode :NFC Test Date :2021-07-02

Test Frequency :13.56 MHz Temp./Humi. :23.5/55
Test Mode :Main Antenna Pol. :Vertical

EUT Pol :H Plane Engineer :Ashton Chiu



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Page: 20 of 34

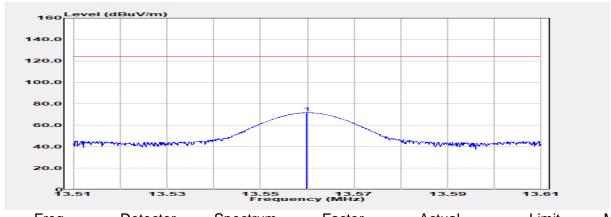
Report Number Test Site :966 Chamber C :E2/2021/60099

Operation Mode :NFC Test Date :2021-07-02

Test Frequency :13.56 MHz Temp./Humi. :23.5/55

Test Mode :Main Antenna Pol. :Horizontal

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
13 560	Peak	59 81	11.88	71 70	124 00	-52 30

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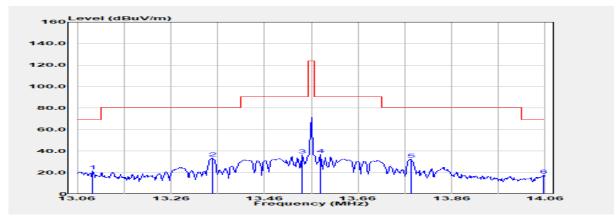
Report Number Test Site :966 Chamber C :E2/2021/60099

Operation Mode :NFC Test Date :2021-07-02

Test Frequency :13.56 MHz Temp./Humi. :23.5/55

Test Mode :Vertical :Mask Antenna Pol.

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
13.094	Peak	9.68	11.92	21.60	69.54	-47.94
13.348	Peak	21.74	11.90	33.64	80.50	-46.86
13.541	Peak	24.78	11.89	36.66	90.47	-53.81
13.581	Peak	24.91	11.88	36.79	90.47	-53.68
13.773	Peak	20.52	11.87	32.38	80.50	-48.12
14.057	Peak	5.80	11.85	17.65	69.54	-51.89

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Page: 22 of 34

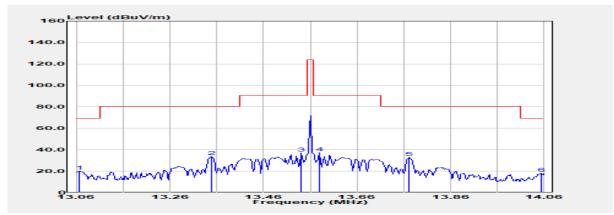
Report Number :E2/2021/60099 Test Site :966 Chamber C

Operation Mode :NFC Test Date :2021-07-02

Test Frequency :13.56 MHz Temp./Humi. :23.5/55

Test Mode :Mask Antenna Pol. :Horizontal

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
13.066	Peak	8.17	11.93	20.09	69.54	-49.45
13.348	Peak	21.66	11.90	33.56	80.50	-46.94
13.541	Peak	25.02	11.89	36.90	90.47	-53.57
13.581	Peak	25.23	11.88	37.12	90.47	-53.35
13.772	Peak	20.85	11.87	32.72	80.50	-47.78
14.054	Peak	6.10	11.85	17.95	69.54	-51.59

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Page: 23 of 34

7.6 **Radiated Spurious Emission Measurement**

7.6.1 Standard Applicable

The field strength of any emissions appearing outside of the 13.110-14.010 MHz 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:

- 1. Emission level in $dB\mu V/m=20 \log (\mu V/m)$
- Distance extrapolation factor = 40 log (required distance/ test distance) (dB)
- 3. 20*log(30uV/m) = 29.54 dBuV/m
- 4. The lower limit shall apply at the transition frequencies.
- The measurement was undertaken in closer distance at 3m, where extrapolation 5. 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 and RSS-Gen §8.10.
- 7. The general radiated emission limits in §15.209 and RSS-Gen §8.9 apply for the spurious emission generate from UE, except for the fundamental emission where the respective section specifies otherwise.

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Page: 24 of 34

:Vertical

Antenna Pol.

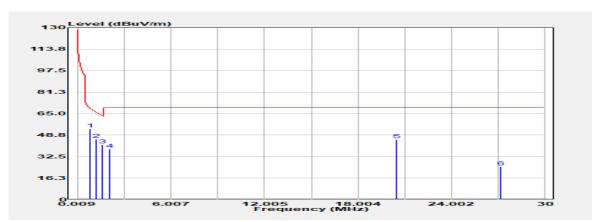
7.6.2 **Radiated Spurious Emission Measurement Result**

:966 Chamber C Report Number Test Site :E2/2021/60099

Operation Mode :NFC Test Date :2021-07-02

Test Frequency :13.56 MHz Temp./Humi. :23.5/55 Test Mode :Tx

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
						_
0.826	Peak	41.75	11.53	53.28	69.27	-15.99
1.211	Peak	34.15	11.52	45.67	65.95	-20.28
1.643	Peak	29.94	11.39	41.33	63.29	-21.96
2.076	Peak	26.70	11.30	38.00	69.54	-31.54
20.484	Peak	33.87	11.35	45.22	69.54	-24.32
27.120	Peak	14.54	10.07	24.61	69.54	-44.93

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Page: 25 of 34

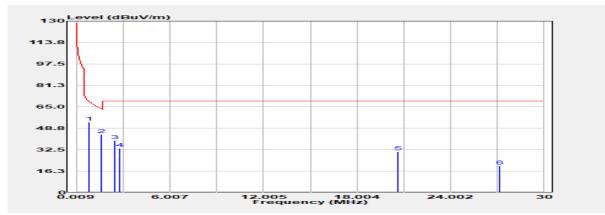
Report Number :E2/2021/60099 Test Site :966 Chamber C

Operation Mode :NFC Test Date :2021-07-02

Test Frequency :13.56 MHz Temp./Humi. :23.5/55

Test Mode :Tx Antenna Pol. :Horizontal

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
0.826	Peak	41.89	11.53	53.42	69.27	-15.85
1.643	Peak	32.45	11.39	43.84	63.29	-19.45
2.460	Peak	28.28	11.23	39.52	69.54	-30.02
2.797	Peak	22.40	11.18	33.58	69.54	-35.96
20.628	Peak	19.64	11.31	30.95	69.54	-38.59
27.120	Peak	10.13	10.07	20.20	69.54	-49.34

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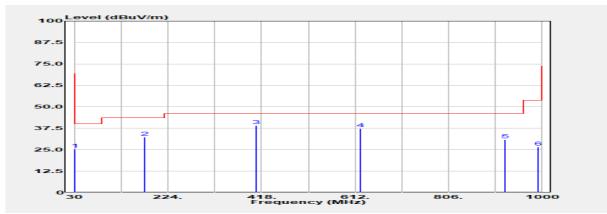
Report Number Test Site :966 Chamber C :E2/2021/60099

Operation Mode :NFC Test Date :2021-07-02

Test Frequency :13.56 MHz Temp./Humi. :23.5/55

Test Mode :Tx :VERTICAL Antenna Pol.

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
31.554	Peak	32.69	-7.29	25.39	40.00	-14.61
176.122	Peak	52.41	-20.06	32.35	43.50	-11.15
406.186	Peak	51.32	-12.21	39.11	46.00	-6.89
623.814	Peak	45.82	-8.41	37.40	46.00	-8.60
922.276	Peak	37.06	-6.19	30.87	46.00	-15.13
990.673	Peak	31.35	-4.79	26.57	54.00	-27.43

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Page: 27 of 34

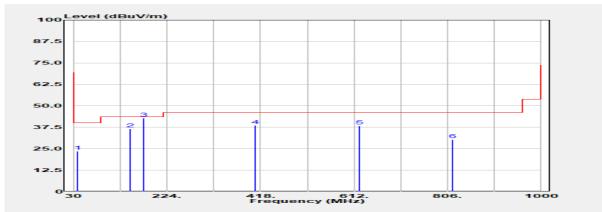
Report Number Test Site :966 Chamber C :E2/2021/60099

Operation Mode :NFC Test Date :2021-07-02

Test Frequency :13.56 MHz Temp./Humi. :23.5/55

Test Mode :Tx :HORIZONTAL Antenna Pol.

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
						_
39.327	Peak	35.06	-11.58	23.49	40.00	-16.51
148.141	Peak	54.38	-17.89	36.49	43.50	-7.01
176.122	QP	62.90	-20.06	42.84	43.50	-0.66
406.186	Peak	50.85	-12.21	38.64	46.00	-7.36
623.814	Peak	46.68	-8.41	38.27	46.00	-7.73
815.016	Peak	37.88	-7.63	30.26	46.00	-15.74

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Page: 28 of 34

FREQUENCY STABILITY

8.1 Applicable Standard

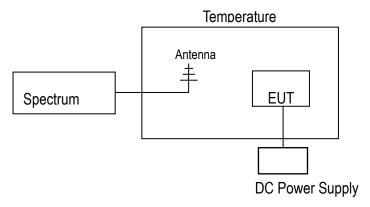
The frequency tolerance of the carrier signal shall be maintained within +/- 0.01% of the operating frequency over a temperature variation of -20 degrees to +50 degrees C at normal supply voltage, and for a variation in the primary supply voltage from 85% to 115% of the rated supply voltage at a temperature of 20 degrees C. For battery operated equipment, the equipment tests shall be performed using a new battery.

Carrier frequency stability shall be maintained to ±0.01% (±100 ppm). For licence-exempt radio apparatus, the frequency stability shall be measured at temperatures of -20°C (-4°F), +20°C (+68°F) and +50°C (+122°F).

8.2 **Measurement Procedure**

- 1. The EUT was placed on a turn table which is 0.8m above ground plane.
- 2. Set EUT as normal operation
- 3. Set SPA Center Frequency = fundamental frequency, RBW, VBW= 10kHz, Span =100kHz.
- 4. Set SPA Max hold. Mark peak.

Test SET-UP (Block Diagram of Configuration) 8.3



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Page: 29 of 34

8.4 **Measurement Equipment Used:**

Conducted Emission Test Site: Conducted D						
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.	
Loop Antenna	ETS.LINDGREN	6502	143303	05/07/2021	05/06/2022	
Spectrum Analyzer	KEYSIGHT	N9010B	MY60240506	06/18/2021	06/17/2022	
Temperature Chamber	TERCHY	MHK-120LK	1020582	07/01/2021	06/30/2022	
Attenuator	Marvelous	MVE2213-10	RF12	11/19/2020	11/18/2021	
DC Block	PASTERNACK	PE8210	RF152	11/19/2020	11/18/2021	
Coaxial Cables	Woken	00100A1F2A196C	RF62	11/19/2020	11/18/2021	

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Page: 30 of 34

8.5 Measurement Results

Startup

A. Temperature Variation

Power Supply	Environment	Frequency	Dalta (IZI I=)	
Vdc	Temperature (°C)	(MHz)	Delta (KHz)	Limit (KHz)
12	-20	13.55959	0.46000	+/- 1.356
12	-10	13.55925	0.80000	+/- 1.356
12	0	13.55935	0.70000	+/- 1.356
12	10	13.55952	0.53000	+/- 1.356
12	20	13.56005	0.00000	+/- 1.356
12	30	13.56002	0.03000	+/- 1.356
12	40	13.55992	0.13000	+/- 1.356
12	50	13.55927	0.78000	+/- 1.356

B. Supply Voltage Variation

Power Supply	Environment	Frequency	Dolto (KLIz)	Limit /I/Ll=\
Vdc	Temperature (°C)	(MHz)	Delta (KHz)	Limit (KHz)
12.6	20	13.55962	0.43000	+/- 1.356
12	20	13.56005	0.00000	+/- 1.356
11.4	20	13.55911	0.94000	+/- 1.356

2 minutes

A. Temperature Variation

Power Supply	Environment	Frequency	Dolto (KUz)	Limit (KUz)
Vdc	Temperature (°C)	(MHz)	Delta (KHz)	Limit (KHz)
12	-20	13.55975	0.30000	+/- 1.356
12	-10	13.55941	0.64000	+/- 1.356
12	0	13.55921	0.84000	+/- 1.356
12	10	13.55957	0.48000	+/- 1.356
12	20	13.56005	0.00000	+/- 1.356
12	30	13.55911	0.94000	+/- 1.356
12	40	13.55994	0.11000	+/- 1.356
12	50	13.55914	0.91000	+/- 1.356

B. Supply Voltage Variation

Power Supply	Environment	Frequency	Dolto (KLIz)	Limit (KLI=)
Vdc	Temperature (°C)	(MHz)	Delta (KHz)	Limit (KHz)
12.6	20	13.55954	0.51000	+/- 1.356
12	20	13.56005	0.00000	+/- 1.356
11.4	20	13.55931	0.74000	+/- 1.356

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Page: 31 of 34

5 minutes

A. Temperature Variation

t. Tomporatoro Variation							
Power Supply	Environment	Frequency	Dolto (KUz)	Limit (KUz)			
Vdc	Temperature (°C)	(MHz)	Delta (KHz)	Limit (KHz)			
12	-20	13.55967	0.38000	+/- 1.356			
12	-10	13.55964	0.41000	+/- 1.356			
12	0	13.55994	0.11000	+/- 1.356			
12	10	13.55954	0.51000	+/- 1.356			
12	20	13.56005	0.00000	+/- 1.356			
12	30	13.55943	0.62000	+/- 1.356			
12	40	13.55955	0.50000	+/- 1.356			
12	50	13.55925	0.80000	+/- 1.356			

B. Supply Voltage Variation

Power Supply	Environment	Frequency	Dolto (KLIz)	Limit (KLI=)
Vdc	Temperature (°C)	(MHz)	Delta (KHz)	Limit (KHz)
12.6	20	13.55987	0.18000	+/- 1.356
12	20	13.56005	0.00000	+/- 1.356
11.4	20	13.55918	0.87000	+/- 1.356

10 minutes

A. Temperature Variation

Power Supply	Environment	Frequency	Dolto (KLIz)	Limit (KLI=)
Vdc	Temperature (°C)	(MHz)	Delta (KHz)	Limit (KHz)
12	-20	13.55977	0.17000	+/- 1.356
12	-10	13.55925	0.69000	+/- 1.356
12	0	13.55986	0.08000	+/- 1.356
12	10	13.55951	0.43000	+/- 1.356
12	20	13.55994	0.00000	+/- 1.356
12	30	13.55912	0.82000	+/- 1.356
12	40	13.55981	0.13000	+/- 1.356
12	50	13.55911	0.83000	+/- 1.356

B. Supply Voltage Variation

Power Supply	Environment	Frequency	Dolto (KL Iz)	Limit (KLI)		
Vdc	Temperature (°C)	(MHz)	Delta (KHz)	Limit (KHz)		
12.6	20	13.55987	0.18000	+/- 1.356		
12	20	13.56005	0.00000	+/- 1.356		
11.4	20	13.55956	0.49000	+/- 1.356		

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Page: 32 of 34

EMISSION BANDWIDTH MEASUREMENT

9.1 **Applicable Standard:**

The 20 dB and 99% bandwidth shall be specified in operating frequency band.

9.2 Limit:

None

9.3 **Test Set-up**

Refer to section 8.3 in this report

9.4 Measurement Equipment Used:

Refer to section 8.4 in this report

9.5 Measurement Procedure

- 1. Placed the EUT on the testing table.
- 2. Set the EUT under transmission condition continuously at specific channel frequency.
- 3. The resolution bandwidth of 1 kHz and the video bandwidth of 3 kHz were used.
- 4. Measured the spectrum width with power higher than 20dB below carrier.

9.6 **Measurement Result**

FCC			
20dB BW (kHz)	Opration range	Frequency (MHz)	Limit (MHz)
2.705	Low	13.55885	>13.11
	High	13.56125	<14.01
IC		-	

99% BW (kHz)			
2.312			

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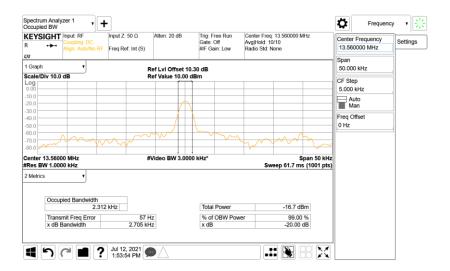
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Page: 33 of 34

Bandwidth



Operation range low



Operation range High



Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製

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Page: 34 of 34

10 ANTENNA REQUIREMENT

10.1 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.

10.2 **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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