FCC PART 15C TEST REPORT FOR CERTIFICATION On Behalf of

Chunghsin Technology Group CO.,LTD

10.1" Android Tablet

Model Number: ONA19TB003

FCC ID: 2AE2WT1015M

Prepared for:	Chunghsin Technology Group CO.,LTD		
	No. 618-2 GONGREN WEST ROAD, JIAOJIANG AREA, TAIZHOU CITY,		
	ZHEJIANG, CHINA		
Prepared By:	EST Technology Co., Ltd.		
	Chilingxiang, Qishantou, Santun, Houjie, Dongguan, Guangdong, China		
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Report Number:	ESTE-R1901046
Date of Test:	Dec. 11, 2018~Jan. 17, 2019
Date of Report:	Jan. 17, 2019

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EST Technology Co., Ltd.

THE REPORT OF THE PARTY OF THE						
Applicant: Address:	Chunghsin Technolog No. 618-2 GONGREN ZHEJIANG, CHINA		OJIANG AREA, TAIZHOU CITY,			
Manufacturer Address:	Chunghsin Technology Group CO.,LTD No. 618-2 GONGREN WEST ROAD, JIAOJIANG AREA, TAIZHOU CITY, ZHEJIANG, CHINA					
E.U.T:	10.1" Android Tablet					
Model Number:	ONA19TB003					
Power Supply:	DC 5V From Adapter DC 3.7V From battery	•	50/60Hz, 0.3A			
Test Voltage:	DC 5V From Adapter DC 5V From Adapter					
Trade Name:	onn	Serial No.:				
Date of Receipt:	Dec. 11, 2018	Date of Test:	Dec. 11, 2018~Jan. 17, 2019			
Test Specification:	FCC Rules and Regula ANSI C63.10:2013	ations Part 15 Subpart	t C:2018			
Test Result:	measurement results w Ltd. was assumed full measurements. Also, the	vere contained in this responsibility for the his report shows that				
Test Result:	measurement results w Ltd. was assumed full measurements. Also, the compliance with the F requirements.	vere contained in this responsibility for the his report shows that a CC Rules and Regula above tested sample of	test report and EST Technology Conaccuracy and completeness of these the EUT to be technically ations Part 15 Subpart Comply and shall not be reproduced in ology Co., Ltd.			
Test Result: Prepared by:	measurement results we Ltd. was assumed full measurements. Also, the compliance with the F requirements. This report applies to a	vere contained in this responsibility for the his report shows that a CC Rules and Regula above tested sample opproval of EST Techn	test report and EST Technology Conaccuracy and completeness of these the EUT to be technically utions Part 15 Subpart Conly and shall not be reproduced in			
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1. GENERAL INFORMATION

1.1. Description of Device (EUT)

Product Name	:	10.1" Android Tablet				
Model Number	:	ONA19TB003				
FCC ID	:	2AE2WT1015M				
Modulation : IEEE 802.11b mode: DSSS(CCK,QPSK, BPSK) IEEE 802.11g mode: OFDM (BPSK/QPSK/16QAM/64QAM) IEEE 802.11n HT20 mode: OFDM (BPSK/QPSK/16QAM/64QAM) IEEE 802.11n HT40 mode: OFDM (BPSK/QPSK/16QAM/64QAM)						
Operation Frequency	•	IEEE 802.11b/g: 2412 ~ 2462 MHz				
operation requestey	•	IEEE 802.110/g. 2412 ~ 2402 WHZ IEEE 802.11n HT20 : 2412 ~ 2462 MHz IEEE 802.11n HT40: 2422 ~ 2452 MHz				
Number of channel	:	IEEE 802.11b 2412 ~ 2462 MHz: 11 Channels IEEE 802.11g 2412 ~ 2462 MHz: 11 Channels IEEE 802.11n HT20 2412 ~ 2462 MHz: 11 Channels IEEE 802.11n HT40 2422 ~ 2452 MHz: 7 Channels				
Antenna	:	Internal antenna				
		Frequency Range 2400~2483.5 MHz	Antennal gain 1.32 dBi			
Sample Type	:	Prototype production				



2. SUMMARY OF TEST

2.1. Summary of test result

Description of Test Item	Standard	Results
	FCC Part 15: 15.207	DACC
Power Line Conducted Emission	ANSI C63.10:2013	PASS
	FCC Part 15: 15.209	
Radiated Emission	ANSI C63.10:2013	PASS
	KDB 558074	
	FCC Part 15: 15.247	
Band Edge Compliance	ANSI C63.10:2013	PASS
	KDB 558074	
	FCC Part 15: 15.247	
Conducted spurious emissions	ANSI C63.10:2013	PASS
	KDB 558074	
	FCC Part 15: 15.247	
6dB Bandwidth	ANSI C63.10:2013	PASS
	KDB 558074	
	FCC Part 15: 15.247	
Peak Output Power	ANSI C63.10:2013	PASS
	KDB 558074	
	FCC Part 15: 15.247	
Power Spectral Density	ANSI C63.10:2013	PASS
-	KDB 558074	
Antenna requirement	FCC Part 15: 15.203	PASS

Note: KDB 558074 D01 15.247 Meas Guidance v05



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2.2. Test Facilities

EMC Lab : Certificated by CNAS, CHINA

Registration No.: L5288

Date of registration: November 13, 2017

Certificated by FCC, USA Designation Number: CN1215

Test Firm Registration Number: 722932 Date of registration: November 21, 2017

Certificated by A2LA, USA Registration No.: 4366.01

Date of registration: November 07, 2017

Certificated by Industry Canada CAB identifier No.: CN0035

Date of registration: January 04, 2019

Certificated by VCCI, Japan

Registration No.: R-13663; C-14103 Date of registration: July 25, 2017

This Certificate is valid until: July 24, 2020

Certificated by TUV Rheinland, Germany Registration No.: UA 50413872 0001 Date of registration: July 31, 2018

Certificated by TUV/PS, Shenzhen

Registration No.: SCN1017

Date of registration: January 27, 2011

Certificated by Intertek ETL SEMKO Registration No.: 2011-RTL-L2-64 Date of registration: April 28, 2011

Certificated by Nemko, Hong Kong

Registration No.: 175193

Date of registration: May 4, 2011

Name of Firm : EST Technology Co., Ltd.

Site Location : Chilingxiang, Qishantou, Santun, Houjie, Dongguan, Guangdong,

China



2.3. Measurement uncertainty

Test Item	Uncertainty
Uncertainty for Conduction emission test	±3.48dB
Uncertainty for spurious emissions test	±4.60 dB(Polarize: H)
(30MHz-1GHz)	±4.68 dB(Polarize: V)
Uncertainty for spurious emissions test (1GHz to 18GHz)	±4.96dB
Uncertainty for radio frequency	7×10 ⁻⁸
Uncertainty for conducted RF Power	0.20dB
Uncertainty for Power density test	0.26dB

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

2.4. Assistant equipment used for test

2.4.1. Adapter

Manufacturer : onn

M/N : BSY01J3050200U U

Input : AC 100-240V, 50/60Hz, 0.3A

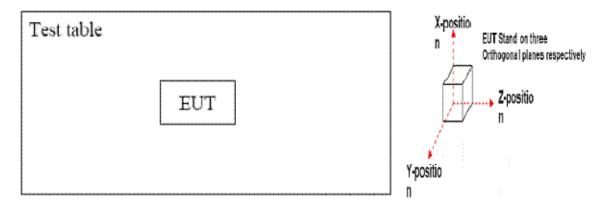
Output : DC 5.0V, 2.0A

2.5. Block Diagram

For radiated emissions test: EUT was placed on a turn table, which is 0.8 or 1.5 meter high above ground. EUT was be set into Wi-Fi test mode by software before test.



(EUT: 10.1" Android Tablet)



Note: We test X-axis, Y-axis, and Z-axis,. The Y-axis is the worst mode, so only theworst mode test data was included in the report.



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2.6. Test mode

A special test software was used to control EUT work in Continuous TX mode, and select test channel, wireless mode and data rate.

Test mode	Lower	Center	Upper
	channel	channel	channel
IEEE 802.11b;IEEE 802.11g;IEEE 802.11n HT20	2412MHz	2437MHz	2462MHz
Transmitting			
IEEE 802.11b;IEEE 802.11g;IEEE 802.11n HT20	2412MHz	2437MHz	2462MHz
Receiving			
IEEE 802.11n HT40 Transmitting	2422MHz	2437MHz	2452MHz
IEEE 802.11n HT40 Receiving	2422MHz	2437MHz	2452MHz

2.7. Channel List

IEEE 802.11b;IEEE 802.11g;IEEE 802.11n HT20							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)		
1	2412	6	2437	11	2462		
2	2417	7	2442				
3	2422	8	2447				
4	2427	9	2452				
5	2432	10	2457				
		IEEE 802	.11n HT40				
Channel	Frequency	Channel	Frequency	C1 1	Frequency		
Channel	(MHz)	Channel	(MHz)	Channel	(MHz)		
3	2422	6	2437	9	2452		
4	2427	7	2442				
5	2432	8	2447				

2.8. Test Equipment

2.8.1. For conducted emission test

Equipment	Manufacturer	Model No.	Serial No.	Calibration	Last Cal.	Next Cal.
				Body		
EMI Test Receiver	Rohde	ESHS30	832354	CEPREI	June 15,18	1 Year
	& Schwarz					
Artificial Mains Network	Rohde	ENV216	101260	CEPREI	June 15,18	1 Year
	& Schwarz					
Pulse Limiter	Rohde	ESH3-Z2	101100	CEPREI	June 15,18	1 Year
	& Schwarz					
Test Software	Audix	e3-6.111221a	N/A	N/A	N/A	N/A

2.8.2. For radiated emission test(9 kHz-30MHz)

Equipment	Manufacturer	Model No.	Serial No.	Calibration	Last Cal.	Next Cal.
				Body		
EMI Test	Rohde	ESR7	101780	CEPREI	June 15,18	1 Year
Receiver	& Schwarz					
Active Loop Antenna	SCHWAREB	FMZB 1519B	1519B-088	N/A	Aug. 01,18	1 Year
	ECK					
Test Software	Audix	e3-6.111221a	N/A	N/A	N/A	N/A

2.8.3. For radiated emissions test (30-1000MHz)

Equipment	Equipment Manufacturer		Serial No.	Calibration	Last Cal.	Next Cal.
				Body		
EMI Test	Rohde	ESR7	101780	CEPREI	June 15,18	1 Year
Receiver	& Schwarz					
Bilog Antenna	Teseq	CBL 6111D	27090	CEPREI	June 15,18	1 Year
Test Software	Audix	e3-6.111221a	N/A	N/A	N/A	N/A

2.8.4. For radiated emission test(above 1GHz)

Equipment	Manufacturer	Model No.	Serial No.	Calibration	Last Cal.	Next Cal.
				Body		
Horn Antenna	SCHWARZB	BBHA 9120 D	BBHA912	CEPREI	June 18,18	1 Year
	ECK		0D1002			
Horn Antenna	SCHWARZB	BBHA9170	BBHA917	CEPREI	June 18,18	1Year
	ECK		0242			
Signal Amplifier	SCHWARZB	BBV9718	9718-212	CEPREI	June 15,18	1 Year
	ECK					
Spectrum Analyzer	Rohde	FSV	103173	CEPREI	June 15,18	1 Year
	&Schwarz					
PSA Series Spertrum	Agilent	E4447A	MY50180	CEPREI	June 15,18	1Year
Analyzer			031			
Test Software	Audix	e3-6.111221a	N/A	N/A	N/A	N/A

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2.8.5. For connect EUT antenna terminal test

Equipment	Manufacturer	Model No.	Serial No.	Calibration Body	Last Cal.	Next Cal.
Spectrum Analyzer	Rohde &Schwarz	FSV	103173	CEPREI	June 15,18	1 Year
Spectrum Analyzer	Agilent	E4408B	MY44211 139	CEPREI	June 15,18	1 Year



3 POWER LINE CONDUCTED EMISSION TEST

3.1. Limit

	Maximum RF Line Voltage				
Frequency	Quasi-Peak Level	Average Level			
	dB(µV)	dB(µV)			
150kHz ~ 500kHz	66 ~ 56*	56 ~ 46*			
500kHz ~ 5MHz	56	46			
5MHz ~ 30MHz	60	50			

Notes: 1. * Decreasing linearly with logarithm of frequency.

3.2. Test Procedure

The EUT was placed on a non-metallic table, 80cm above the ground plane. The EUT Power connected to the power mains through a line impedance stabilization network (L.I.S.N. 1#). This provides a 50 ohm coupling impedance for the EUT (Please refer the block diagram of the test setup and photographs). The AC line are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to ANSI C63.10: 2013 on Conducted Emission Test.

The bandwidth of test receiver (R & S ESHS30) is set at 10kHz.

The frequency range from 150kHz to 30MHz is checked.

3.3. Test Result

PASS.



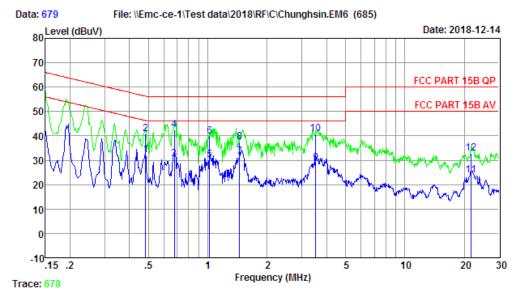
Report No. ESTE-R1901046

^{2.} The lower limit shall apply at the transition frequencies.

3.4. Test data

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Site no : 844 Shield Room Data no. : 679 Env. / Ins. : Temp:24.8°C Humi:55% Press:101.50kPa LINE Phase : LINE

Limit : FCC PART 15B QP

Engineer : WS

EUT : 10.1"Android Tablet

Power : DC 5V From Adapter Input AC 120V/60Hz

M/N : ONA19TB003 Test Mode : TX Mode

	Freq.	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuv)	Limits (dBuv)	Margin (dB)	Remark
1	0.484	9.75	0.05	22.30	32.10	46.27	14.17	Average
2	0.484	9.75	0.05	31.04	40.84	56.27	15.43	QP
3	0.675	9.76	0.05	20.78	30.59	46.00	15.41	Average
4	0.675	9.76	0.05	32.75	42.56	56.00	13.44	QP
5	1.021	9.76	0.06	20.32	30.14	46.00	15.86	Average
6	1.021	9.76	0.06	29.87	39.69	56.00	16.31	QP
7	1.449	9.77	0.06	21.77	31.60	46.00	14.40	Average
8	1.449	9.77	0.06	27.82	37.65	56.00	18.35	QP
9	3.528	9.81	0.07	18.93	28.81	46.00	17.19	Average
10	3.528	9.81	0.07	31.07	40.95	56.00	15.05	QP
11	21.715	10.00	0.09	13.83	23.92	50.00	26.08	Average
12	21.715	10.00	0.09	22.62	32.71	60.00	27.29	QP

Remarks: 1. Emission Level= LISN Factor + Cable Loss + Reading.

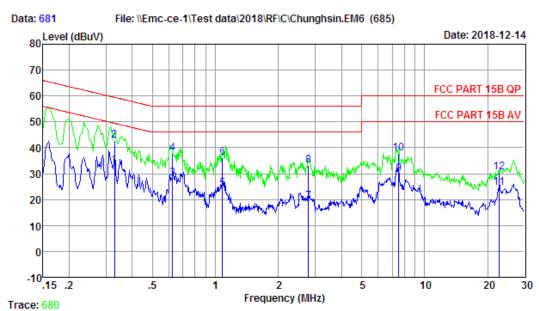
2. Margin= Limit - Emission Level.

 If the average limit is met when useing a quasi-peak detector, the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.



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Site no : 844 Shield Room Data no. : 681 Env. / Ins. : Temp:24.8°C Humi:55% Press:101.50kPa LINE Phase : NEUTRAL

Limit : FCC PART 15B QP

Engineer : WS

EUT : 10.1"Android Tablet

Power : DC 5V From Adapter Input AC 120V/60Hz

M/N : ONA19TB003 Test Mode : TX Mode

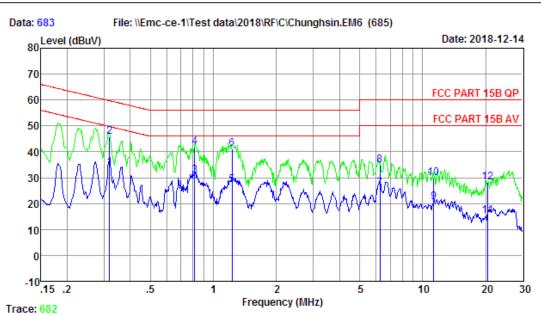
	Freq.	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuv)	Limits (dBuv)	Margin (dB)	Remark
1	0.330	9.55	0.05	23.74	33.34	49.44	16.10	Average
2	0.330	9.55	0.05	33.13	42.73	59.44	16.71	QP
3	0.624	9.57	0.05	18.43	28.05	46.00	17.95	Average
4	0.624	9.57	0.05	28.08	37.70	56.00	18.30	QP
5	1.082	9.58	0.06	14.58	24.22	46.00	21.78	Average
6	1.082	9.58	0.06	26.63	36.27	56.00	19.73	QP
7	2.779	9.62	0.07	9.59	19.28	46.00	26.72	Average
8	2.779	9.62	0.07	23.59	33.28	56.00	22.72	QP
9	7.526	9.67	0.08	19.94	29.69	50.00	20.31	Average
10	7.526	9.67	0.08	27.94	37.69	60.00	22.31	QP
11	22.775	9.75	0.09	14.80	24.64	50.00	25.36	Average
12	22.775	9.75	0.09	20.80	30.64	60.00	29.36	QP

Remarks: 1. Emission Level= LISN Factor + Cable Loss + Reading.

- 2. Margin= Limit Emission Level.
- If the average limit is met when useing a quasi-peak detector, the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.



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Site no : 844 Shield Room Data no. : 683 Env. / Ins. : Temp:24.8°C Humi:55% Press:101.50kPa LINE Phase : LINE

Limit : FCC PART 15B QP

Engineer : WS

EUT : 10.1"Android Tablet

Power : DC 5V From Adapter Input AC 240V/50Hz

M/N : ONA19TB003 Test Mode : TX Mode

	Freq.	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuv)	Limits (dBuv)	Margin (dB)	Remark
1	0.318	9.74	0.05	24.19	33.98	49.75	15.77	Average
2	0.318	9.74	0.05	36.05	45.84	59.75	13.91	QP
3	0.813	9.76	0.05	21.02	30.83	46.00	15.17	Average
4	0.813	9.76	0.05	32.07	41.88	56.00	14.12	QP
5	1.229	9.76	0.06	17.30	27.12	46.00	18.88	Average
6	1.229	9.76	0.06	31.19	41.01	56.00	14.99	QP
7	6.252	9.86	0.07	15.91	25.84	50.00	24.16	Average
8	6.252	9.86	0.07	24.92	34.85	60.00	25.15	QP
9	11.317	9.92	0.08	10.52	20.52	50.00	29.48	Average
10	11.317	9.92	0.08	19.90	29.90	60.00	30.10	QP
11	20.486	10.00	0.09	5.17	15.26	50.00	34.74	Average
12	20.486	10.00	0.09	18.05	28.14	60.00	31.86	QP

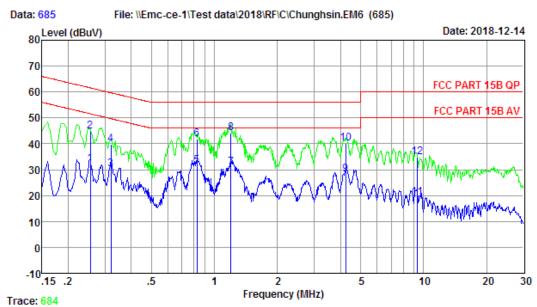
Remarks: 1. Emission Level= LISN Factor + Cable Loss + Reading.

2. Margin= Limit - Emission Level.

If the average limit is met when useing a quasi-peak detector, the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.



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Site no : 844 Shield Room Data no. : 685 Env. / Ins. : Temp:24.8°C Humi:55% Press:101.50kPa LINE Phase : NEUTRAL

Limit : FCC PART 15B QP

Engineer : WS

EUT : 10.1"Android Tablet

Power : DC 5V From Adapter Input AC 240V/50Hz

M/N : ONA19TB003 Test Mode : TX Mode

	Freq.	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuv)	Limits (dBuv)	Margin (dB)	Remark
1	0.255	9.54	0.04	22.58	32.16	51.60	19.44	Average
2	0.255	9.54	0.04	35.05	44.63	61.60	16.97	QP
3	0.320	9.55	0.05	20.71	30.31	49.71	19.40	Average
4	0.320	9.55	0.05	30.09	39.69	59.71	20.02	QP
5	0.826	9.58	0.05	21.94	31.57	46.00	14.43	Average
6	0.826	9.58	0.05	32.08	41.71	56.00	14.29	QP
7	1.197	9.58	0.06	21.36	31.00	46.00	15.00	Average
8	1.197	9.58	0.06	34.36	44.00	56.00	12.00	QP
9	4.247	9.64	0.07	18.61	28.32	46.00	17.68	Average
10	4.247	9.64	0.07	30.37	40.08	56.00	15.92	QP
11	9.302	9.66	0.08	9.64	19.38	50.00	30.62	Average
12	9.302	9.66	0.08	25.08	34.82	60.00	25.18	QP

Remarks: 1. Emission Level= LISN Factor + Cable Loss + Reading.

- 2. Margin= Limit Emission Level.
- If the average limit is met when useing a quasi-peak detector, the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.



4 RADIATED EMISSION TEST

4.1 Limit

All the emissions appearing within 15.205 restricted frequency bands shall not exceed the limits shown in 15.209, all the other emissions shall be at least 20dB below the fundamental emissions, or comply with 15.209 limits.

15.205 Restricted frequency band

MHz	MHz	MHz	GHz
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
¹ 0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.025 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 4.20775	73 - 74.6	1645.5 - 1646.5	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1660 - 1710	10.6 - 12.7
6.26775 - 6.26825	108 - 121.94	1718.8 - 1722.2	13.25 - 13.4
6.31175 - 6.31225	123 - 138	2200 - 2300	14.47 - 14.5
8.291 - 8.294	149.9 - 150.05	2310 - 2390	15.35 - 16.2
8.362 - 8.366	156.52475 - 156.52525	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.7 - 156.9	2690 - 2900	22.01 - 23.12
8.41425 - 8.41475	162.0125 - 167.17	3260 - 3267	23.6 - 24.0
12.29 - 12.293	167.72 - 173.2	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	240 - 285	3345.8 - 3358	36.43 - 36.5
12.57675 - 12.57725	322 - 335.4	3600 - 4400	(²)

15.209 Limit

Frequency (MHz)	Field Strength(μV/m)	Distance(m)
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

Remark : (1) Emission level $dB\mu V = 20 \log Emission level \mu V/m$

(2) The smaller limit shall apply at the cross point between two frequency bands.

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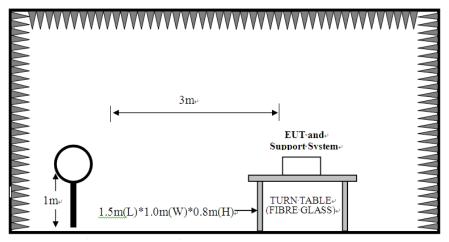
(3) Distance is the distance in meters between the measuring instrument, antenna and the closest point of any part of the device or system.



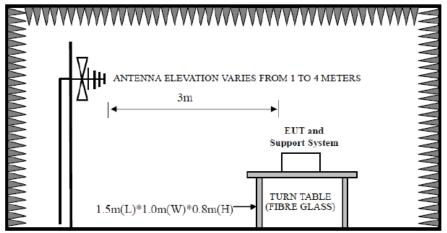
EST Technology Co. , Ltd

4.2. Block Diagram of Test setup

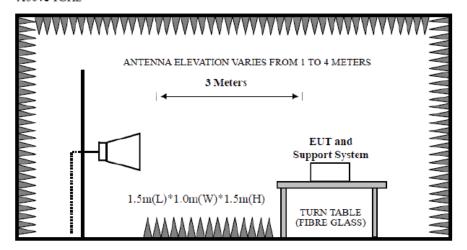
9kHz~30MHz



30~1000MHz



Above 1GHz





4.3. Test Procedure

EUT was placed on a turn table, which is 0.8 meter high above ground for 9kHz~1000MHz test, and which is 1.5 meter high above ground for above 1GHz test. The turn table can rotate 360 degrees to determine the position of the maximum emission level. Power on the EUT and let it working in test mode, then test it. EUT is set 3 meters away from the receiving antenna, which is mounted on a antenna tower. The antenna can be moved up and down between 1 meter and 4 meters to find out the maximum emission level. Both horizontal and vertical polarization of the antenna are set on test.

The test frequency analyzer system was set to Peak Detect (300Hz RBW in 9kHz to 150kHz and 10kHz RBW in 150kHz to 30MHz) Function and Specified Bandwidth with Maximum Hold Mode.

The bandwidth of the EMI test receiver (R&S ESVS10) is set at 120kHz for frequency range from 30MHz to 1000 MHz.

The bandwidth of the Spectrum's VBW is set at 1MHz and RBW is set at 1MHz for peak emissions measurement above 1GHz and 1MHz RBW, 10Hz VBW for average emissions measure above 1GHz

PEAK detector, 1MHz/1MHz for PAEK measurement,

PEAK detector, 1MHz/10Hz for Average measurement

The frequency range from 30MHz to 10th harmonic (25GHz) are checked.

4.4. Test Result

PASS.

- Note: 1. For emissions above 1GHz, if peak level comply with average limit, then the average level is deemed to comply with average limit.
 - 2. The frequency 2412MHz. 2422MHz. 2437 MHz. 2452MHz and 2462 MHz is fundamental frequency which no limit, the limit on plots is automatically generated by the software, it's not fundamental limit, we can't remove it.

Report No. ESTE-R1901046



4.5. Test Data

9 kHz – 30 MHz

Pass

Note: The amplitude of spurious emission that is attenuated by more than 20dB below the permissible limit has no need to be reported.

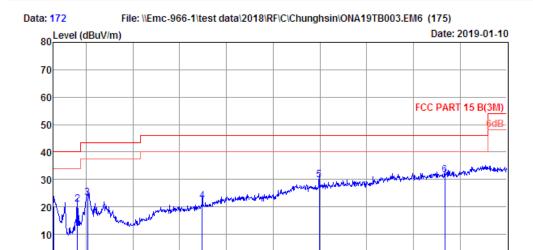


Report No. ESTE-R1901046

30-1000 MHz

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500.

Frequency (MHz)

600.

700.

800.

900.

1000

Site no. : 1# 966 Chamber Data no. : 172
Dis. / Ant. : 3m 27090 Ant. pol. : HORIZONTAL

400.

300.

Limit : FCC PART 15 B(3M)

Env. / Ins. : Temp:21.6'; Humi:50.3%; Press:101.52kPa

200.

Engineer : Maybe

EUT : 10.1" Android Tablet

Power : DC 5V From Adapter Input AC 120V/60Hz

M/N : ONA19TB003 Test Mode : TX Mode

100.

	Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	30.00	19.00	0.19	1.10	20.29	40.00	19.71	QP
2	81.41	7.28	0.69	12.98	20.95	40.00	19.05	QP
3	102.75	10.48	0.81	12.09	23.38	43.50	20.12	QP
4	348.16	14.56	1.83	5.71	22.10	46.00	23.90	QP
5	598.42	20.32	2.53	7.04	29.89	46.00	16.11	QP
6	867.11	23.90	3.24	4.45	31.59	46.00	14.41	QP

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.

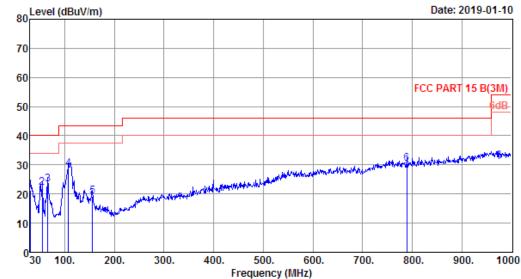
2. Margin= Limit - Emission Level.

3. The emission levels that are 20dB below the official limit are not reported.



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Data: 173 File: \\Emc-966-1\test data\2018\RF\C\Chunghsin\ONA19TB003.EM6 (175)



Site no. : 1# 966 Chamber Data no. : 173
Dis. / Ant. : 3m 27090 Ant. pol. : VERTICAL

Limit : FCC PART 15 B(3M)

Env. / Ins. : Temp:21.6'; Humi:50.3%; Press:101.52kPa

Engineer : Maybe

EUT : 10.1" Android Tablet

Power : DC 5V From Adapter Input AC 120V/60Hz

M/N : ONA19TB003 Test Mode : TX Mode

	Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	30.00	19.00	0.19	2.13	21.32	40.00	18.68	QP
2	54.25	6.26	0.30	15.72	22.28	40.00	17.72	QP
3	65.89	5.12	0.42	17.70	23.24	40.00	16.76	QP
4	107.60	10.78	0.82	17.05	28.65	43.50	14.85	QP
5	156.10	10.62	1.04	7.49	19.15	43.50	24.35	QP
6	789.51	22.96	2.97	4.45	30.38	46.00	15.62	QP

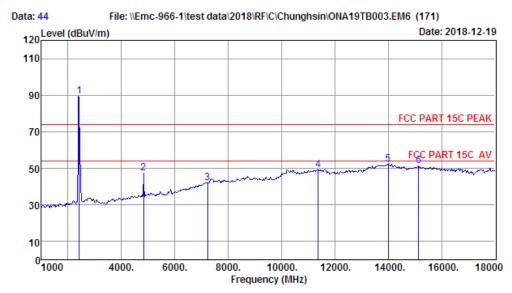
- 2. Margin= Limit Emission Level.
- 3. The emission levels that are 20dB below the official limit are not reported.



1000-18000 MHz

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Site no. : 1# 966 Chamber Data no. : 44
Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : VERTICAL

Limit : FCC PART 15C PEAK

Env. / Ins. : Temp:23.6'; Humi:56%; Press:101.52kPa

Engineer : Seven

EUT : 10.1" Android Tablet

Power : DC 5V From Adapter Input AC 120V/60Hz

M/N : ONA19TB003

Test Mode : IEEE 802.11b TX 2412MHz

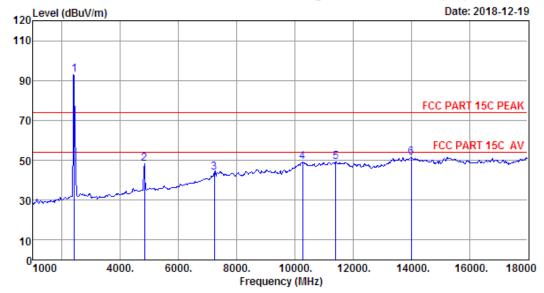
	Freq.	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2412.00	27.39	3.23	34.94	93.95	89.63	74.00	-15.63	Peak
2	4824.00	32.09	4.69	35.08	45.84	47.54	74.00	26.46	Peak
3	7236.00	36.63	6.03	33.42	32.86	42.10	74.00	31.90	Peak
4	11370.00	40.05	8.30	32.78	33.67	49.24	74.00	24.76	Peak
5	14005.00	41.70	10.13	32.88	33.22	52.17	74.00	21.83	Peak
6	15144.00	40.08	10.90	33.11	33.28	51.15	74.00	22.85	Peak

- 2. Margin= Limit Emission Level.
- The emission levels that are 20dB below the official limit are not reported.



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Data: 45 File: \\Emc-966-1\test data\\2018\\RF\C\Chunghsin\ONA19TB003.EM6 (171)



Site no. : 1# 966 Chamber Data no. : 45
Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : HORIZONTAL

Limit : FCC PART 15C PEAK

Env. / Ins. : Temp:23.6'; Humi:56%; Press:101.52kPa

Engineer : Seven

EUT : 10.1" Android Tablet

Power : DC 5V From Adapter Input AC 120V/60Hz

M/N : ONA19TB003

Test Mode : IEEE 802.11b TX 2412MHz

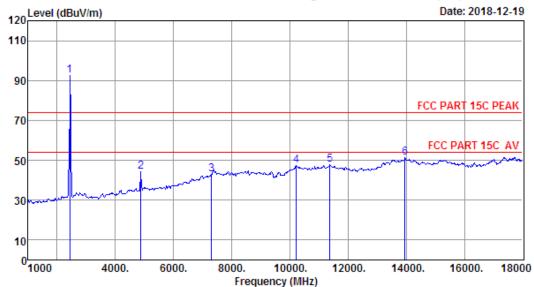
	Freq.	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2412.00	27.39	3.23	34.94	97.26	92.94	74.00	-18.94	Peak
2	4824.00	32.09	4.69	35.08	46.69	48.39	74.00	25.61	Peak
3	7236.00	36.63	6.03	33.42	34.52	43.76	74.00	30.24	Peak
4	10265.00	39.21	9.98	34.39	34.18	48.98	74.00	25.02	Peak
5	11404.00	40.06	8.29	32.71	33.70	49.34	74.00	24.66	Peak
6	14005.00	41.70	10.13	32.88	32.51	51.46	74.00	22.54	Peak

- 2. Margin= Limit Emission Level.
- The emission levels that are 20dB below the official limit are not reported.



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Data: 46 File: \\Emc-966-1\test data\\2018\\RF\C\Chunghsin\\ONA19TB003.EM6 (171)



Site no. : 1# 966 Chamber Data no. : 46
Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : VERTICAL

Limit : FCC PART 15C PEAK

Env. / Ins. : Temp:23.6'; Humi:56%; Press:101.52kPa

Engineer : Seven

EUT : 10.1" Android Tablet

Power : DC 5V From Adapter Input AC 120V/60Hz

M/N : ONA19TB003

Test Mode : IEEE 802.11b TX 2437MHz

	Freq.	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2437.00	27.48	3.26	35.07	96.76	92.43	74.00	-18.43	Peak
2	4874.00	32.18	4.73	35.14	42.45	44.22	74.00	29.78	Peak
3	7311.00	36.78	6.09	33.31	33.25	42.81	74.00	31.19	Peak
4	10214.00	39.19	9.77	34.43	32.68	47.21	74.00	26.79	Peak
5	11370.00	40.05	8.30	32.78	32.08	47.65	74.00	26.35	Peak
6	13954.00	41.66	10.12	32.84	32.21	51.15	74.00	22.85	Peak

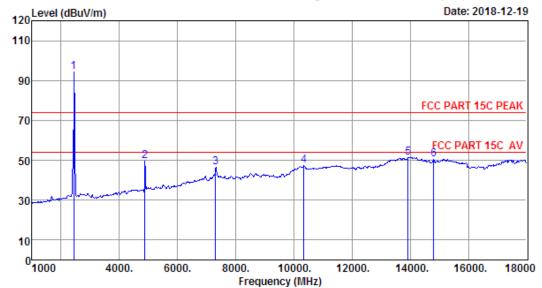
Report No. ESTE-R1901046

- 2. Margin= Limit Emission Level.
- The emission levels that are 20dB below the official limit are not reported.



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Data: 47 File: \\Emc-966-1\test data\2018\RF\C\Chunghsin\ONA19TB003.EM6 (171)



Site no. : 1# 966 Chamber

Data no. : 47 Ant. pol. : HORIZONTAL Dis. / Ant. : 3m ANT9120D 1-18G

: FCC PART 15C PEAK

Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa

Engineer : Seven

: 10.1" Android Tablet EUT

: DC 5V From Adapter Input AC 120V/60Hz Power

M/N : ONA19TB003

Test Mode : IEEE 802.11b TX 2437MHz

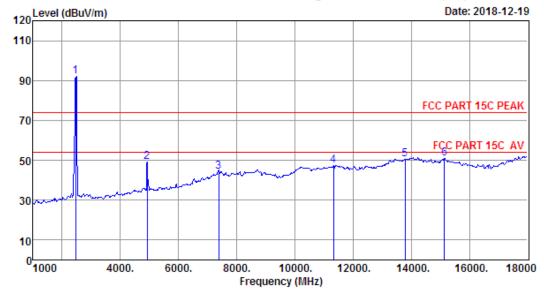
	Freq.	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2437.00	27.48	3.26	35.07	98.68	94.35	74.00	-20.35	Peak
2	4874.00	32.18	4.73	35.14	47.62	49.39	74.00	24.61	Peak
3	7311.00	36.78	6.09	33.31	36.77	46.33	74.00	27.67	Peak
4	10350.00	39.24	10.10	34.30	32.48	47.52	74.00	26.48	Peak
5	13920.00	41.63	10.11	32.83	32.55	51.46	74.00	22.54	Peak
6	14804.00	40.66	10.52	33.59	33.06	50.65	74.00	23.35	Peak

- 2. Margin= Limit Emission Level.
- 3. The emission levels that are 20dB below the official limit are not reported.



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Data: 48 File: \\Emc-966-1\test data\2018\\RF\C\Chunghsin\ONA19TB003.EM6 (171)



Site no. : 1# 966 Chamber Data no. : 48
Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : HORIZONTAL

Limit : FCC PART 15C PEAK

Env. / Ins. : Temp:23.6'; Humi:56%; Press:101.52kPa

Engineer : Seven

EUT : 10.1" Android Tablet

Power : DC 5V From Adapter Input AC 120V/60Hz

M/N : ONA19TB003

Test Mode : IEEE 802.11b TX 2462MHz

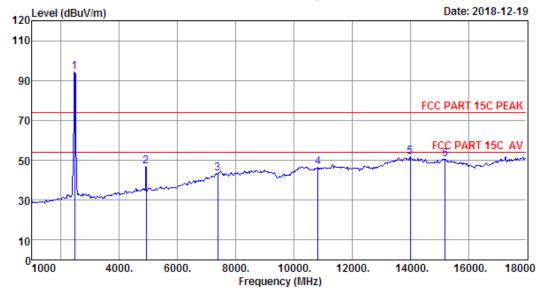
	Freq.	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2462.00	27.52	3.27	35.14	96.41	92.06	74.00	-18.06	Peak
2	4924.00	32.28	4.77	35.20	47.42	49.27	74.00	24.73	Peak
3	7386.00	36.97	6.12	33.17	34.52	44.44	74.00	29.56	Peak
4	11336.00	40.03	8.32	32.84	31.97	47.48	74.00	26.52	Peak
5	13784.00	41.53	10.05	32.72	31.71	50.57	74.00	23.43	Peak
6	15144.00	40.08	10.90	33.11	33.27	51.14	74.00	22.86	Peak

- 2. Margin= Limit Emission Level.
- The emission levels that are 20dB below the official limit are not reported.



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Data: 49 File: \\Emc-966-1\test data\\2018\\RF\C\Chunghsin\ONA19TB003.EM6 (171)



Site no. : 1# 966 Chamber Data no. : 49
Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : VERTICAL

Limit : FCC PART 15C PEAK

Env. / Ins. : Temp:23.6'; Humi:56%; Press:101.52kPa

Engineer : Seven

EUT : 10.1" Android Tablet

Power : DC 5V From Adapter Input AC 120V/60Hz

M/N : ONA19TB003

Test Mode : IEEE 802.11b TX 2462MHz

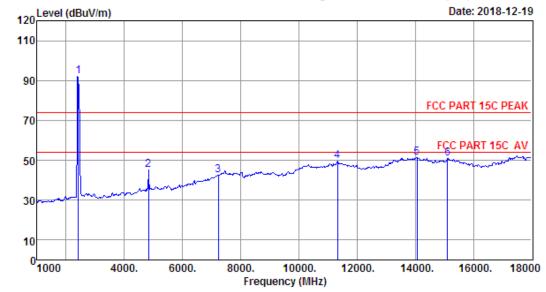
	Freq.	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2462.00	27.52	3.27	35.14	98.52	94.17	74.00	-20.17	Peak
2	4924.00	32.28	4.77	35.20	45.17	47.02	74.00	26.98	Peak
3	7386.00	36.97	6.12	33.17	33.35	43.27	74.00	30.73	Peak
4	10826.00	39.69	8.70	33.67	31.96	46.68	74.00	27.32	Peak
5	14005.00	41.70	10.13	32.88	32.65	51.60	74.00	22.40	Peak
6	15195.00	40.00	10.96	33.03	32.76	50.69	74.00	23.31	Peak

- 2. Margin= Limit Emission Level.
- The emission levels that are 20dB below the official limit are not reported.



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Data: 50 File: \\Emc-966-1\test data\\2018\\RF\C\Chunghsin\ONA19TB003.EM6 (171)



Site no. : 1# 966 Chamber Data no. : 50
Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : HORIZONTAL

Limit : FCC PART 15C PEAK

Env. / Ins. : Temp:23.6'; Humi:56%; Press:101.52kPa

Engineer : Seven

EUT : 10.1" Android Tablet

Power : DC 5V From Adapter Input AC 120V/60Hz

M/N : ONA19TB003

Test Mode : IEEE 802.11g TX 2412MHz

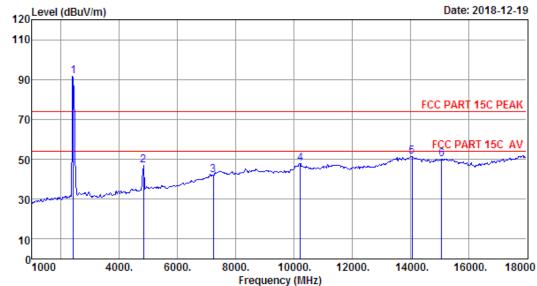
	Freq.	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2412.00	27.39	3.23	34.94	96.31	91.99	74.00	-17.99	Peak
2	4824.00	32.09	4.69	35.08	43.27	44.97	74.00	29.03	Peak
3	7236.00	36.63	6.03	33.42	33.14	42.38	74.00	31.62	Peak
4	11336.00	40.03	8.32	32.84	34.06	49.57	74.00	24.43	Peak
5	14056.00	41.65	10.13	32.95	32.56	51.39	74.00	22.61	Peak
6	15110.00	40.13	10.87	33.19	33.23	51.04	74.00	22.96	Peak

- 2. Margin= Limit Emission Level.
- The emission levels that are 20dB below the official limit are not reported.



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Data: 51 File: \\Emc-966-1\test data\\2018\\RF\C\Chunghsin\ONA19TB003.EM6 (171)



Site no. : 1# 966 Chamber Data no. : 51
Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : VERTICAL

Limit : FCC PART 15C PEAK

Env. / Ins. : Temp:23.6'; Humi:56%; Press:101.52kPa

Engineer : Seven

EUT : 10.1" Android Tablet

Power : DC 5V From Adapter Input AC 120V/60Hz

M/N : ONA19TB003

Test Mode : IEEE 802.11g TX 2412MHz

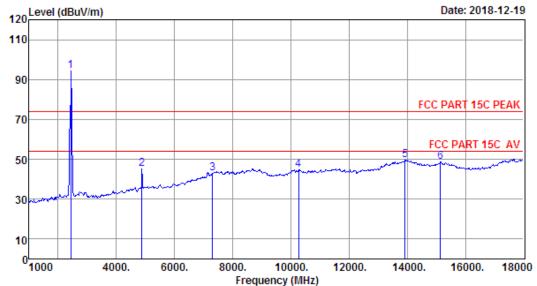
	Freq.	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2412.00	27.39	3.23	34.94	95.91	91.59	74.00	-17.59	Peak
2	4824.00	32.09	4.69	35.08	45.31	47.01	74.00	26.99	Peak
3	7236.00	36.63	6.03	33.42	32.69	41.93	74.00	32.07	Peak
4	10214.00	39.19	9.77	34.43	33.36	47.89	74.00	26.11	Peak
5	14056.00	41.65	10.13	32.95	32.66	51.49	74.00	22.51	Peak
6	15076.00	40.19	10.83	33.26	32.38	50.14	74.00	23.86	Peak

- 2. Margin= Limit Emission Level.
- The emission levels that are 20dB below the official limit are not reported.



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Data: 52 File: \\Emc-966-1\test data\\2018\\RF\C\Chunghsin\\ONA19TB003.EM6 (171)



Site no. : 1# 966 Chamber Data no. : 52
Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : HORIZONTAL

Limit : FCC PART 15C PEAK

Env. / Ins. : Temp:23.6'; Humi:56%; Press:101.52kPa

Engineer : Seven

EUT : 10.1" Android Tablet

Power : DC 5V From Adapter Input AC 120V/60Hz

M/N : ONA19TB003

Test Mode : IEEE 802.11g TX 2437MHz

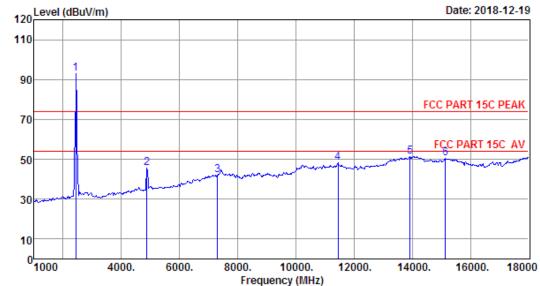
	Freq.	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2437.00	27.48	3.26	35.07	98.72	94.39	74.00	-20.39	Peak
2	4874.00	32.18	4.73	35.14	43.36	45.13	74.00	28.87	Peak
3	7311.00	36.78	6.09	33.31	33.35	42.91	74.00	31.09	Peak
4	10265.00	39.21	9.98	34.39	29.78	44.58	74.00	29.42	Peak
5	13920.00	41.63	10.11	32.83	30.75	49.66	74.00	24.34	Peak
6	15144.00	40.08	10.90	33.11	30.98	48.85	74.00	25.15	Peak

- 2. Margin= Limit Emission Level.
- The emission levels that are 20dB below the official limit are not reported.



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Data: 53 File: \\Emc-966-1\test data\\2018\\RF\C\Chunghsin\ONA19TB003.EM6 (171)



Site no. : 1# 966 Chamber Data no. : 53
Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : VERTICAL

Limit : FCC PART 15C PEAK

Env. / Ins. : Temp:23.6'; Humi:56%; Press:101.52kPa

Engineer : Seven

EUT : 10.1" Android Tablet

Power : DC 5V From Adapter Input AC 120V/60Hz

M/N : ONA19TB003

Test Mode : IEEE 802.11g TX 2437MHz

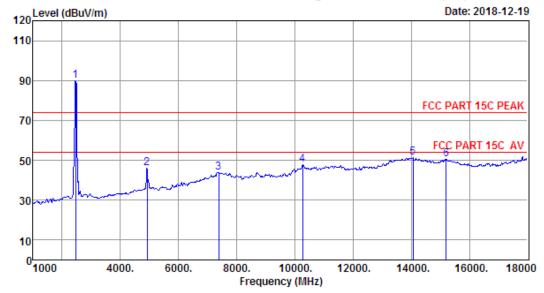
	Freq.	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2437.00	27.48	3.26	35.07	97.31	92.98	74.00	-18.98	Peak
2	4874.00	32.18	4.73	35.14	43.86	45.63	74.00	28.37	Peak
3	7311.00	36.78	6.09	33.31	32.58	42.14	74.00	31.86	Peak
4	11455.00	40.08	8.28	32.62	32.36	48.10	74.00	25.90	Peak
5	13920.00	41.63	10.11	32.83	32.50	51.41	74.00	22.59	Peak
6	15144.00	40.08	10.90	33.11	32.43	50.30	74.00	23.70	Peak

- 2. Margin= Limit Emission Level.
- The emission levels that are 20dB below the official limit are not reported.



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Data: 54 File: \\Emc-966-1\test data\\2018\\RF\C\Chunghsin\ONA19TB003.EM6 (171)



Site no. : 1# 966 Chamber Data no. : 54
Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : VERTICAL

Limit : FCC PART 15C PEAK

Env. / Ins. : Temp:23.6'; Humi:56%; Press:101.52kPa

Engineer : Seven

EUT : 10.1" Android Tablet

Power : DC 5V From Adapter Input AC 120V/60Hz

M/N : ONA19TB003

Test Mode : IEEE 802.11g TX 2462MHz

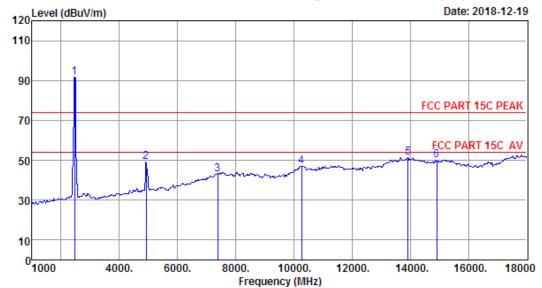
	Freq.	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2462.00	27.52	3.27	35.14	94.39	90.04	74.00	-16.04	Peak
2	4924.00	32.28	4.77	35.20	44.12	45.97	74.00	28.03	Peak
3	7386.00	36.97	6.12	33.17	33.79	43.71	74.00	30.29	Peak
4	10265.00	39.21	9.98	34.39	32.83	47.63	74.00	26.37	Peak
5	14056.00	41.65	10.13	32.95	32.34	51.17	74.00	22.83	Peak
6	15195.00	40.00	10.96	33.03	32.66	50.59	74.00	23.41	Peak

- 2. Margin= Limit Emission Level.
- The emission levels that are 20dB below the official limit are not reported.



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Data: 55 File: \\Emc-966-1\test data\\2018\\RF\C\Chunghsin\ONA19TB003.EM6 (171)



Site no. : 1# 966 Chamber Data no. : 55
Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : HORIZONTAL

Limit : FCC PART 15C PEAK

Env. / Ins. : Temp:23.6'; Humi:56%; Press:101.52kPa

Engineer : Seven

EUT : 10.1" Android Tablet

Power : DC 5V From Adapter Input AC 120V/60Hz

M/N : ONA19TB003

Test Mode : IEEE 802.11g TX 2462MHz

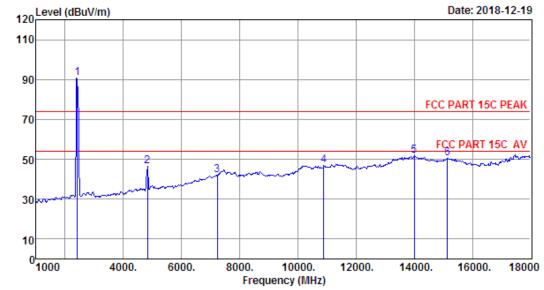
		Freq.	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1		2462.00	27.52	3.27	35.14	95.91	91.56	74.00	-17.56	Peak
2	2	4924.00	32.28	4.77	35.20	47.23	49.08	74.00	24.92	Peak
3	}	7386.00	36.97	6.12	33.17	33.24	43.16	74.00	30.84	Peak
4		10265.00	39.21	9.98	34.39	32.27	47.07	74.00	26.93	Peak
5	,	13920.00	41.63	10.11	32.83	32.51	51.42	74.00	22.58	Peak
6	5	14906.00	40.48	10.64	33.52	32.60	50.20	74.00	23.80	Peak

- 2. Margin= Limit Emission Level.
- The emission levels that are 20dB below the official limit are not reported.



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Data: 56 File: \\Emc-966-1\test data\\2018\\RF\C\Chunghsin\ONA19TB003.EM6 (171)



Site no. : site Data no. : 56
Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : VERTICAL

Limit : FCC PART 15C PEAK

Env. / Ins. : Temp:23.6'; Humi:56%; Press:101.52kPa

Engineer : Seven

EUT : 10.1" Android Tablet

Power : DC 5V From Adapter Input AC 120V/60Hz

M/N : ONA19TB003

Test Mode : IEEE 802.11n HT20 TX 2412MHz

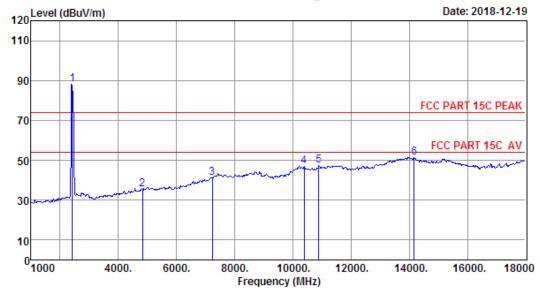
		Freq.	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	L	2412.00	27.39	3.23	34.94	94.91	90.59	74.00	-16.59	Peak
2	2	4824.00	32.09	4.69	35.08	44.86	46.56	74.00	27.44	Peak
3	3	7236.00	36.63	6.03	33.42	32.84	42.08	74.00	31.92	Peak
4	1	10894.00	39.78	8.65	33.60	31.90	46.73	74.00	27.27	Peak
5	5	14005.00	41.70	10.13	32.88	32.92	51.87	74.00	22.13	Peak
6	5	15144.00	40.08	10.90	33.11	32.47	50.34	74.00	23.66	Peak

- 2. Margin= Limit Emission Level.
- The emission levels that are 20dB below the official limit are not reported.



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Data: 57 File: \\Emc-966-1\\test data\\2018\\RF\C\Chunghsin\\ONA19TB003.EM6 (171)



Site no. : 1# 966 Chamber Data no. : 57
Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : HORIZONTAL

Limit : FCC PART 15C PEAK

Env. / Ins. : Temp:23.6'; Humi:56%; Press:101.52kPa

Engineer : Seven

EUT : 10.1" Android Tablet

Power : DC 5V From Adapter Input AC 120V/60Hz

M/N : ONA19TB003

Test Mode : IEEE 802.11n HT20 TX 2412MHz

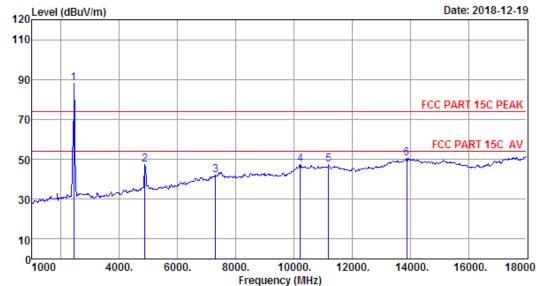
	Freq.	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	D	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
					(dBuV)				
1	2412.00	27.39	3.23	34.94	92.36	88.04	74.00	-14.04	Peak
2	4824.00	32.09	4.69	35.08	33.65	35.35	74.00	38.65	Peak
3	7236.00	36.63	6.03	33.42	32.15	41.39	74.00	32.61	Peak
4	10384.00	39.25	10.00	34.26	31.93	46.92	74.00	27.08	Peak
5	10894.00	39.78	8.65	33.60	32.50	47.33	74.00	26.67	Peak
6	14175.00	41.53	10.15	33.11	32.67	51.24	74.00	22.76	Peak

- 2. Margin= Limit Emission Level.
- The emission levels that are 20dB below the official limit are not reported.



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Data: 58 File: \\Emc-966-1\test data\\2018\\RF\C\Chunghsin\\ONA19TB003.EM6 (171)



Site no. : 1# 966 Chamber Data no. : 58
Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : VERTICAL

Limit : FCC PART 15C PEAK

Env. / Ins. : Temp:23.6'; Humi:56%; Press:101.52kPa

Engineer : Seven

EUT : 10.1" Android Tablet

Power : DC 5V From Adapter Input AC 120V/60Hz

M/N : ONA19TB003

Test Mode : IEEE 802.11n HT20 TX 2437MHz

	Freq.	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2437.00	27.48	3.26	35.07	92.47	88.14	74.00	-14.14	Peak
2	4874.00	32.18	4.73	35.14	45.65	47.42	74.00	26.58	Peak
3	7311.00	36.78	6.09	33.31	32.45	42.01	74.00	31.99	Peak
4	10214.00	39.19	9.77	34.43	32.82	47.35	74.00	26.65	Peak
5	11200.00	39.98	8.43	33.10	32.02	47.33	74.00	26.67	Peak
6	13886.00	41.61	10.11	32.80	31.67	50.59	74.00	23.41	Peak

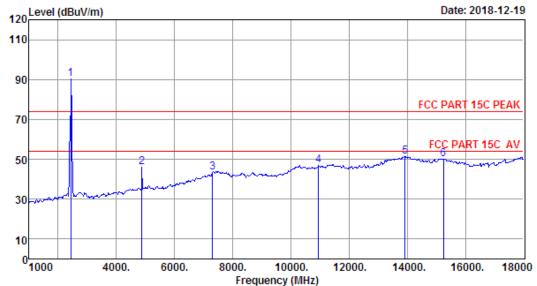
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.

- 2. Margin= Limit Emission Level.
- The emission levels that are 20dB below the official limit are not reported.



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Data: 59 File: \\Emc-966-1\test data\\2018\\RF\C\Chunghsin\\ONA19TB003.EM6 (171)



Site no. : 1# 966 Chamber Data no. : 59
Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : HORIZONTAL

Limit : FCC PART 15C PEAK

Env. / Ins. : Temp:23.6'; Humi:56%; Press:101.52kPa

Engineer : Seven

EUT : 10.1" Android Tablet

Power : DC 5V From Adapter Input AC 120V/60Hz

M/N : ONA19TB003

Test Mode : IEEE 802.11n HT20 TX 2437MHz

		Ant.	Cable	Amp		Emission			Remark
	Freq. (MHz)	•	Loss (dB)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	
1	2437.00	27.48	3.26	35.07	94.73	90.40	74.00	-16.40	Peak
2	4874.00	32.18	4.73	35.14	44.18	45.95	74.00	28.05	Peak
3	7311.00	36.78	6.09	33.31	33.95	43.51	74.00	30.49	Peak
4	10945.00	39.84	8.61	33.52	31.88	46.81	74.00	27.19	Peak
5	13920.00	41.63	10.11	32.83	32.59	51.50	74.00	22.50	Peak
6	15246.00	39.91	10.99	32.91	32.25	50.24	74.00	23.76	Peak

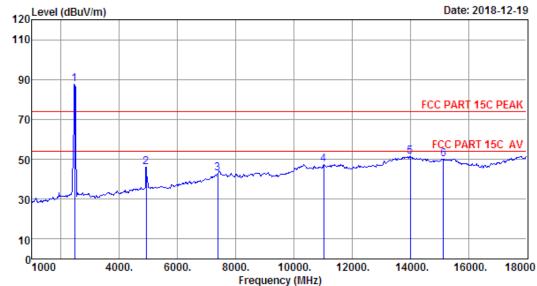
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.

- 2. Margin= Limit Emission Level.
- The emission levels that are 20dB below the official limit are not reported.



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Data: 60 File: \\Emc-966-1\test data\\2018\\RF\C\Chunghsin\\ONA19TB003.EM6 (171)



Site no. : 1# 966 Chamber Data no. : 60
Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : HORIZONTAL

Limit : FCC PART 15C PEAK

Env. / Ins. : Temp:23.6'; Humi:56%; Press:101.52kPa

Engineer : Seven

EUT : 10.1" Android Tablet

Power : DC 5V From Adapter Input AC 120V/60Hz

M/N : ONA19TB003

Test Mode : IEEE 802.11n HT20 TX 2462MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2462.00	27.52	3.27	35.14	92.16	87.81	74.00	-13.81	Peak
2	4924.00	32.28	4.77	35.20	44.29	46.14	74.00	27.86	Peak
3	7386.00	36.97	6.12	33.17	33.17	43.09	74.00	30.91	Peak
4	11030.00	39.91	8.55	33.39	32.24	47.31	74.00	26.69	Peak
5	14005.00	41.70	10.13	32.88	32.54	51.49	74.00	22.51	Peak
6	15144.00	40.08	10.90	33.11	32.13	50.00	74.00	24.00	Peak

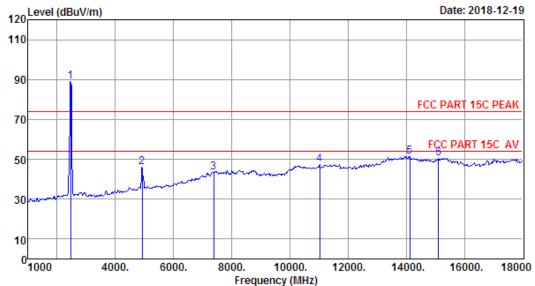
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.

- 2. Margin= Limit Emission Level.
- The emission levels that are 20dB below the official limit are not reported.



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Data: 61 File: \\Emc-966-1\test data\\2018\\RF\C\Chunghsin\ONA19TB003.EM6 (171)



Site no. : 1# 966 Chamber Data no. : 61
Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : VERTICAL

Limit : FCC PART 15C PEAK

Env. / Ins. : Temp:23.6'; Humi:56%; Press:101.52kPa

Engineer : Seven

EUT : 10.1" Android Tablet

Power : DC 5V From Adapter Input AC 120V/60Hz

M/N : ONA19TB003

Test Mode : IEEE 802.11n HT20 TX 2462MHz

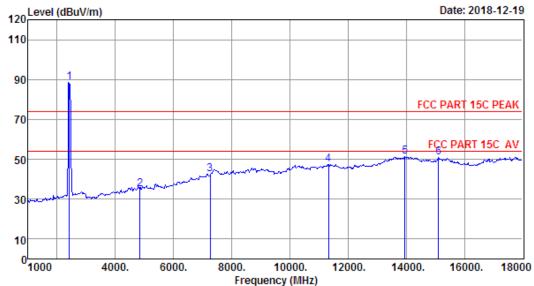
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2462.00	27.52	3.27	35.14	93.45	89.10	74.00	-15.10	Peak
2	4924.00	32.28	4.77	35.20	44.26	46.11	74.00	27.89	Peak
3	7386.00	36.97	6.12	33.17	33.52	43.44	74.00	30.56	Peak
4	11030.00	39.91	8.55	33.39	32.21	47.28	74.00	26.72	Peak
5	14124.00	41.58	10.14	33.04	32.88	51.56	74.00	22.44	Peak
6	15110.00	40.13	10.87	33.19	32.55	50.36	74.00	23.64	Peak

- 2. Margin= Limit Emission Level.
- The emission levels that are 20dB below the official limit are not reported.



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Data: 62 File: \\Emc-966-1\test data\2018\RF\C\Chunghsin\ONA19TB003.EM6 (171)



Site no. : 1# 966 Chamber

Data no. : 62 Ant. pol. : HORIZONTAL Dis. / Ant. : 3m ANT9120D 1-18G

: FCC PART 15C PEAK

Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa

Engineer : Seven

: 10.1" Android Tablet EUT

: DC 5V From Adapter Input AC 120V/60Hz Power

M/N : ONA19TB003

: IEEE 802.11n HT40 TX 2422MHz Test Mode

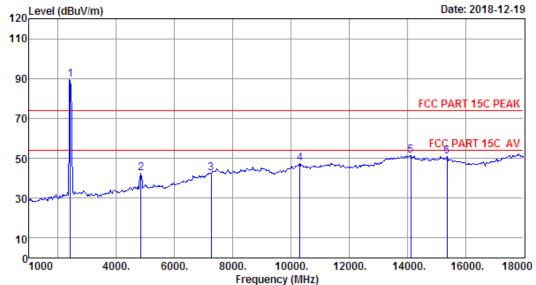
	Freq.	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2422.00	27.43	3.24	35.00	92.93	88.60	74.00	-14.60	Peak
2	4844.00	32.12	4.70	35.10	33.13	34.85	74.00	39.15	Peak
3	7266.00	36.71	6.05	33.36	32.93	42.33	74.00	31.67	Peak
4	11336.00	40.03	8.32	32.84	31.90	47.41	74.00	26.59	Peak
5	13954.00	41.66	10.12	32.84	32.40	51.34	74.00	22.66	Peak
6	15110.00	40.13	10.87	33.19	33.12	50.93	74.00	23.07	Peak

- 2. Margin= Limit Emission Level.
- 3. The emission levels that are 20dB below the official limit are not reported.



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Data: 63 File: \\Emc-966-1\test data\\2018\\RF\C\Chunghsin\ONA19TB003.EM6 (171)



Site no. : 1# 966 Chamber Data no. : 63
Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : VERTICAL

Limit : FCC PART 15C PEAK

Env. / Ins. : Temp:23.6'; Humi:56%; Press:101.52kPa

Engineer : Seven

EUT : 10.1" Android Tablet

Power : DC 5V From Adapter Input AC 120V/60Hz

M/N : ONA19TB003

Test Mode : IEEE 802.11n HT40 TX 2422MHz

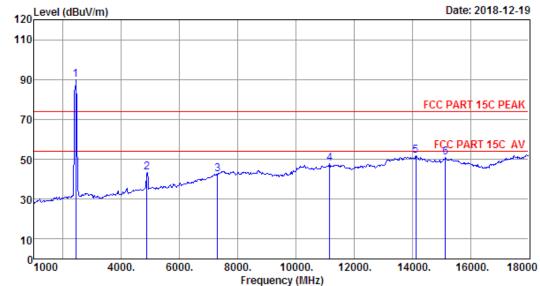
	Freq.	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2422.00	27.43	3.24	35.00	93.61	89.28	74.00	-15.28	Peak
2	4844.00	32.12	4.70	35.10	40.91	42.63	74.00	31.37	Peak
3	7266.00	36.71	6.05	33.36	33.24	42.64	74.00	31.36	Peak
4	10316.00	39.23	10.20	34.34	32.33	47.42	74.00	26.58	Peak
5	14124.00	41.58	10.14	33.04	32.86	51.54	74.00	22.46	Peak
6	15365.00	39.72	10.93	32.64	32.85	50.86	74.00	23.14	Peak

- 2. Margin= Limit Emission Level.
- The emission levels that are 20dB below the official limit are not reported.



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Data: 64 File: \\Emc-966-1\test data\\2018\\RF\C\Chunghsin\\ONA19TB003.EM6 (171)



Site no. : site Data no. : 64
Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : VERTICAL

Limit : FCC PART 15C PEAK

Env. / Ins. : Temp:23.6'; Humi:56%; Press:101.52kPa

Engineer : Seven

EUT : 10.1" Android Tablet

Power : DC 5V From Adapter Input AC 120V/60Hz

M/N : ONA19TB003

Test Mode : IEEE 802.11n HT40 TX 2437MHz

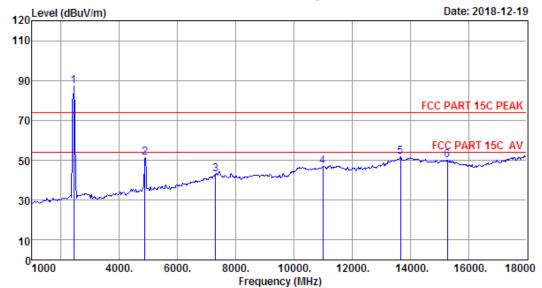
	Freq.	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2437.00	27.48	3.26	35.07	94.29	89.96	74.00	-15.96	Peak
2	4874.00	32.18	4.73	35.14	41.46	43.23	74.00	30.77	Peak
3	7311.00	36.78	6.09	33.31	33.08	42.64	74.00	31.36	Peak
4	11166.00	39.97	8.45	33.13	32.47	47.76	74.00	26.24	Peak
5	14124.00	41.58	10.14	33.04	33.34	52.02	74.00	21.98	Peak
6	15144.00	40.08	10.90	33.11	32.91	50.78	74.00	23.22	Peak

- 2. Margin= Limit Emission Level.
- The emission levels that are 20dB below the official limit are not reported.



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Data: 65 File: \\Emc-966-1\test data\\2018\\RF\C\Chunghsin\ONA19TB003.EM6 (171)



Site no. : 1# 966 Chamber Data no. : 65
Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : HORIZONTAL

Limit : FCC PART 15C PEAK

Env. / Ins. : Temp:23.6'; Humi:56%; Press:101.52kPa

Engineer : Seven

EUT : 10.1" Android Tablet

Power : DC 5V From Adapter Input AC 120V/60Hz

M/N : ONA19TB003

Test Mode : IEEE 802.11n HT40 TX 2437MHz

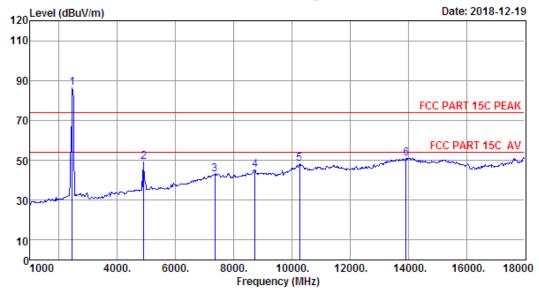
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2437.00	27.48	3.26	35.07	91.43	87.10	74.00	-13.10	Peak
2	4874.00	32.18	4.73	35.14	49.38	51.15	74.00	22.85	Peak
3	7311.00	36.78	6.09	33.31	33.22	42.78	74.00	31.22	Peak
4	10996.00	39.90	8.57	33.45	31.98	47.00	74.00	27.00	Peak
5	13665.00	41.43	9.89	32.62	33.06	51.76	74.00	22.24	Peak
6	15280.00	39.86	10.97	32.84	32.26	50.25	74.00	23.75	Peak

- 2. Margin= Limit Emission Level.
- The emission levels that are 20dB below the official limit are not reported.



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Data: 66 File: \\Emc-966-1\test data\\2018\\RF\C\Chunghsin\ONA19TB003.EM6 (171)



Site no. : 1# 966 Chamber Data no. : 66
Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : HORIZONTAL

Limit : FCC PART 15C PEAK

Env. / Ins. : Temp:23.6'; Humi:56%; Press:101.52kPa

Engineer : Seven

EUT : 10.1" Android Tablet

Power : DC 5V From Adapter Input AC 120V/60Hz

M/N : ONA19TB003

Test Mode : IEEE 802.11n HT40 TX 2452MHz

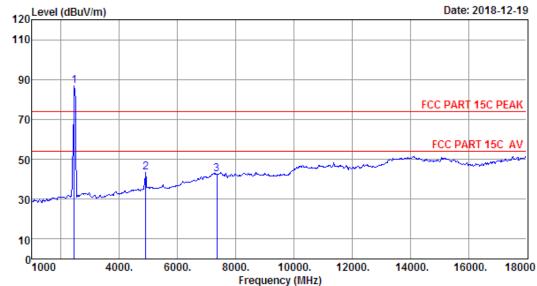
Freq.	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
2452.00	27.48	3.26	35.07	90.70	86.37	74.00	-12.37	Peak
4904.00	32.24	4.76	35.18	47.38	49.20	74.00	24.80	Peak
7356.00	36.90	6.11	33.22	33.36	43.15	74.00	30.85	Peak
8735.00	37.53	6.90	32.88	33.44	44.99	74.00	29.01	Peak
10265.00	39.21	9.98	34.39	33.47	48.27	74.00	25.73	Peak
13920.00	41.63	10.11	32.83	32.07	50.98	74.00	23.02	Peak
	(MHz) 2452.00 4904.00 7356.00 8735.00 10265.00	Freq. Factor (MHz) (dB/m) 2452.00 27.48 4904.00 32.24 7356.00 36.90 8735.00 37.53 10265.00 39.21	Freq. Factor Loss (MHz) (dB/m) (dB) 2452.00 27.48 3.26 4904.00 32.24 4.76 7356.00 36.90 6.11 8735.00 37.53 6.90 10265.00 39.21 9.98	Freq. Factor Loss Factor (MHz) (dB/m) (dB) (dB) 2452.00 27.48 3.26 35.07 4904.00 32.24 4.76 35.18 7356.00 36.90 6.11 33.22 8735.00 37.53 6.90 32.88 10265.00 39.21 9.98 34.39	Freq. Factor Loss Factor Reading (MHz) (dB/m) (dB) (dB) (dBuV) 2452.00 27.48 3.26 35.07 90.70 4904.00 32.24 4.76 35.18 47.38 7356.00 36.90 6.11 33.22 33.36 8735.00 37.53 6.90 32.88 33.44 10265.00 39.21 9.98 34.39 33.47	Freq. Factor Loss Factor Reading Level (MHz) (dB/m) (dB) (dB) (dBuV) (dBuV/m) 2452.00 27.48 3.26 35.07 90.70 86.37 4904.00 32.24 4.76 35.18 47.38 49.20 7356.00 36.90 6.11 33.22 33.36 43.15 8735.00 37.53 6.90 32.88 33.44 44.99 10265.00 39.21 9.98 34.39 33.47 48.27	Freq. Factor Loss Factor Reading Level Limits (MHz) (dB/m) (dB) (dB) (dBuV) (dBuV/m) (dBuV/m) 2452.00 27.48 3.26 35.07 90.70 86.37 74.00 4904.00 32.24 4.76 35.18 47.38 49.20 74.00 7356.00 36.90 6.11 33.22 33.36 43.15 74.00 8735.00 37.53 6.90 32.88 33.44 44.99 74.00 10265.00 39.21 9.98 34.39 33.47 48.27 74.00	Freq. Factor Loss Factor Reading Level Limits Margin (MHz) (dB/m) (dB) (dB) (dBuV) (dBuV/m) (dBuV/m) (dBuV/m) (dB) 2452.00 27.48 3.26 35.07 90.70 86.37 74.00 -12.37 4904.00 32.24 4.76 35.18 47.38 49.20 74.00 24.80 7356.00 36.90 6.11 33.22 33.36 43.15 74.00 30.85 8735.00 37.53 6.90 32.88 33.44 44.99 74.00 29.01 10265.00 39.21 9.98 34.39 33.47 48.27 74.00 25.73

- 2. Margin= Limit Emission Level.
- The emission levels that are 20dB below the official limit are not reported.



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Data: 67 File: \\Emc-966-1\test data\\2018\\RF\C\Chunghsin\ONA19TB003.EM6 (171)



Site no. : 1# 966 Chamber Data no. : 67
Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : VERTICAL

Limit : FCC PART 15C PEAK

Env. / Ins. : Temp:23.6'; Humi:56%; Press:101.52kPa

Engineer : Seven

EUT : 10.1" Android Tablet

Power : DC 5V From Adapter Input AC 120V/60Hz

M/N : ONA19TB003

Test Mode : IEEE 802.11n HT40 TX 2452MHz

	Freq.		Cable Loss (dB)	-	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2452.00	27.48	3.26	35.07	91.31	86.98	74.00	-12.98	Peak
2	4904.00	32.24	4.76	35.18	41.59	43.41	74.00	30.59	Peak
3	7356.00	36.90	6.11	33.22	32.62	42.41	74.00	31.59	Peak

- 2. Margin= Limit Emission Level.
- The emission levels that are 20dB below the official limit are not reported.



18000MHz - 25000MHz

Pass

Note: The amplitude of spurious emission that is attenuated by more than 20dB below the permissible limit has no need to be reported.

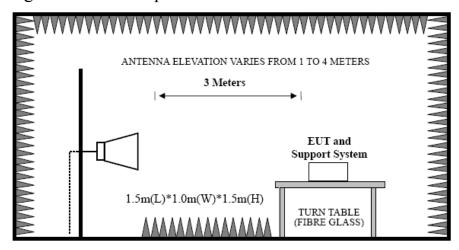


5 BAND EDGE COMPLIANCE TEST

5.1 Limit

All the lower and upper band-edges emissions appearing within 2310MHz to 2390MHz and 2483.5MHz to 2500MHz restricted frequency bands shall not exceed the limits shown in 15.209, all the other emissions outside operation frequency band 2400MHz to 2483.5MHz shall be at least 20dB below the fundamental emissions, or comply with 15.209 limits

5.2 Block Diagram of Test setup



5.3 Test Procedure

EUT was placed on a turn table, which is 1.5 m high above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. Power on the EUT and let it working in test mode, then test it. EUT is set 3 meters away from the receiving antenna, which is mounted on a antenna tower. The antenna can be moved up and down between 1 meter and 4 meters to find out the maximum emission level. Both horizontal and vertical polarization of the antenna are set on test.

Set the spectrum analyzer in the following setting in order to capture the lower and upper band-edges of emissions

Peak: RBW = 1MHz, VBW = 1MHz, Detector=PEAK detector, Sweep time = auto. AV: RBW = 1MHz, VBW = 10Hz, Detector=PEAK detector, Sweep time = auto.

5.4 Test Result

Pass (The testing data was attached in the next pages.)

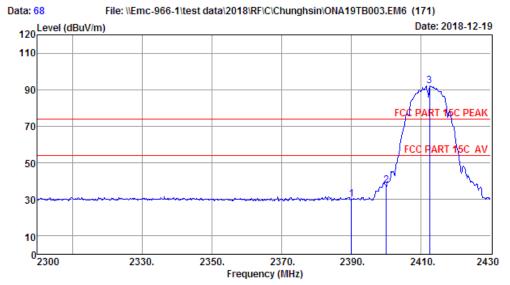
- Note: 1. For emissions above 1GHz, if peak level comply with average limit, then the average level is deemed to comply with average limit.
 - 2. The frequency 2412 MHz . 2422MHz. 2452MHz and 2462 MHz is fundamental frequency which no limit, the limit on plots is automatically generated by the software, it's not fundamental limit, we can't remove it.



5.5 Test Data

EST Technology

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Site no. : 1# 966 Chamber Data no. : 68
Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : VERTICAL

Limit : FCC PART 15C PEAK

Env. / Ins. : Temp:23.6'; Humi:56%; Press:101.52kPa

Engineer : Seven

EUT : 10.1" Android Tablet

Power : DC 5V From Adapter Input AC 120V/60Hz

M/N : ONA19TB003

Test Mode : IEEE 802.11b TX 2412MHz

	Freq.			Factor	_	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.00	27.35	3.21	34.87	34.32	30.01	74.00	43.99	Peak
2	2400.00	27.35	3.21	34.94	41.87	37.49	74.00	36.51	Peak
3	2412.45	27.39	3.23	34.94	96.40	92.08	74.00	-18.08	Peak

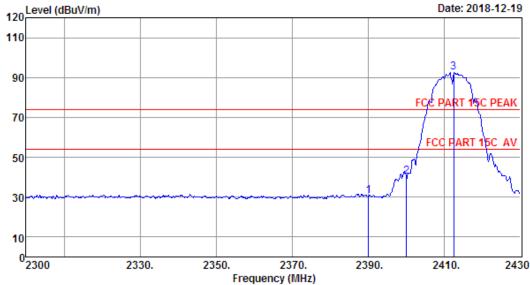
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.

- 2. Margin= Limit Emission Level.
- The emission levels that are 20dB below the official limit are not reported.



EST Technology Co. , Ltd

Chilingxiang, Qishantou, Santun, Houjie, Dongguan, Guangdong, China Tel:+86-769-83081888 Fax:+86-769-83081878



Site no. : 1# 966 Chamber Data no. : 69

Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : HORIZONTAL

Limit : FCC PART 15C PEAK

Env. / Ins. : Temp:23.6'; Humi:56%; Press:101.52kPa

Engineer : Seven

EUT : 10.1" Android Tablet

Power : DC 5V From Adapter Input AC 120V/60Hz

M/N : ONA19TB003

Test Mode : IEEE 802.11b TX 2412MHz

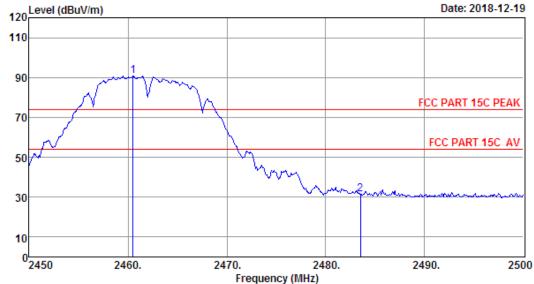
	Freq.		Cable Loss (dB)	-	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.00	27.35	3.21	34.87	34.88	30.57	74.00	43.43	Peak
2	2400.00	27.35	3.21	34.94	44.70	40.32	74.00	33.68	Peak
3	2412.45	27.39	3.23	34.94	96.78	92.46	74.00	-18.46	Peak

- 2. Margin= Limit Emission Level.
- The emission levels that are 20dB below the official limit are not reported.



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Data: 70 File: \\Emc-966-1\test data\\2018\\RF\C\Chunghsin\\ONA19TB003.EM6 (171)



Site no. : 1# 966 Chamber Data no. : 70
Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : VERTICAL

Limit : FCC PART 15C PEAK

Env. / Ins. : Temp:23.6'; Humi:56%; Press:101.52kPa

Engineer : Seven

EUT : 10.1" Android Tablet

Power : DC 5V From Adapter Input AC 120V/60Hz

M/N : ONA19TB003

Test Mode : IEEE 802.11b TX 2462MHz

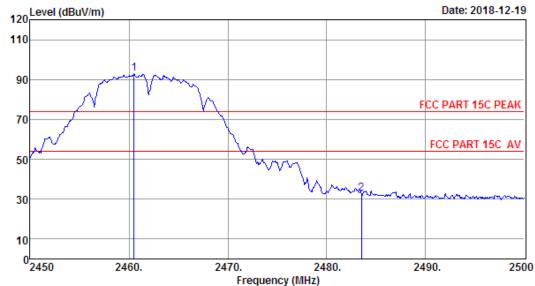
	Freq.		Factor	_	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 2	2460.50 2483.50			95.34 35.71	90.99 31.35	74.00 74.00	-16.99 42.65	Peak Peak

- 2. Margin= Limit Emission Level.
- The emission levels that are 20dB below the official limit are not reported.



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Data: 71 File: \\Emc-966-1\test data\\2018\\RF\C\Chunghsin\ONA19TB003.EM6 (171)



Site no. : 1# 966 Chamber Data no. : 71
Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : HORIZONTAL

Limit : FCC PART 15C PEAK

Env. / Ins. : Temp:23.6'; Humi:56%; Press:101.52kPa

Engineer : Seven

EUT : 10.1" Android Tablet

Power : DC 5V From Adapter Input AC 120V/60Hz

M/N : ONA19TB003

Test Mode : IEEE 802.11b TX 2462MHz

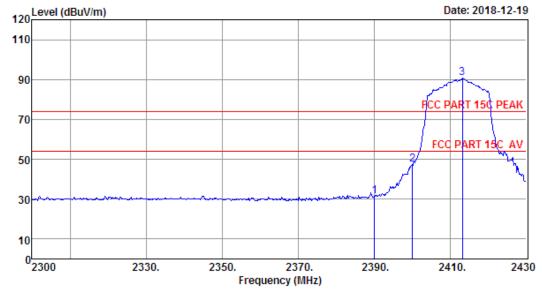
	Freq.		Factor	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 2	2460.50 2483.50				92.85 32.71	74.00 74.00	-18.85 41.29	Peak Peak

- 2. Margin= Limit Emission Level.
- The emission levels that are 20dB below the official limit are not reported.



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Data: 72 File: \\Emc-966-1\test data\\2018\\RF\C\Chunghsin\\ONA19TB003.EM6 (171)



Site no. : 1# 966 Chamber Data no. : 72
Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : VERTICAL

Limit : FCC PART 15C PEAK

Env. / Ins. : Temp:23.6'; Humi:56%; Press:101.52kPa

Engineer : Seven

EUT : 10.1" Android Tablet

Power : DC 5V From Adapter Input AC 120V/60Hz

M/N : ONA19TB003

Test Mode : IEEE 802.11g TX 2412MHz

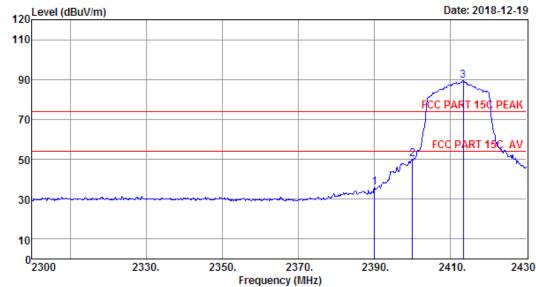
	Freq.		Cable Loss (dB)	-	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.00	27.35	3.21	34.87	35.74	31.43	74.00	42.57	Peak
2	2400.00	27.35	3.21	34.94	51.55	47.17	74.00	26.83	Peak
3	2413.10	27.39	3.23	34.94	94.93	90.61	74.00	-16.61	Peak

- 2. Margin= Limit Emission Level.
- The emission levels that are 20dB below the official limit are not reported.



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Data: 73 File: \\Emc-966-1\test data\\2018\\RF\C\Chunghsin\ONA19TB003.EM6 (171)



Site no. : 1# 966 Chamber Data no. : 73

Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : HORIZONTAL

Limit : FCC PART 15C PEAK

Env. / Ins. : Temp:23.6'; Humi:56%; Press:101.52kPa

Engineer : Seven

EUT : 10.1" Android Tablet

Power : DC 5V From Adapter Input AC 120V/60Hz

M/N : ONA19TB003

Test Mode : IEEE 802.11g TX 2412MHz

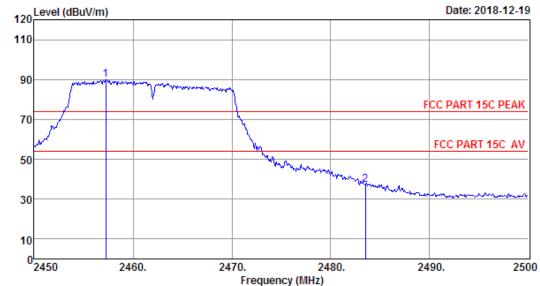
	Freq.		Cable Loss (dB)	-	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.00	27.35	3.21	34.87	40.16	35.85	74.00	38.15	Peak
2	2400.00	27.35	3.21	34.94	54.22	49.84	74.00	24.16	Peak
3	2413.36	27.39	3.23	34.94	93.62	89.30	74.00	-15.30	Peak

- 2. Margin= Limit Emission Level.
- The emission levels that are 20dB below the official limit are not reported.



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Data: 74 File: \\Emc-966-1\test data\\2018\\RF\C\Chunghsin\\ONA19TB003.EM6 (171)



Site no. : 1# 966 Chamber Data no. : 74
Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : VERTICAL

Limit : FCC PART 15C PEAK

Env. / Ins. : Temp:23.6'; Humi:56%; Press:101.52kPa

Engineer : Seven

EUT : 10.1" Android Tablet

Power : DC 5V From Adapter Input AC 120V/60Hz

M/N : ONA19TB003

Test Mode : IEEE 802.11g TX 2462MHz

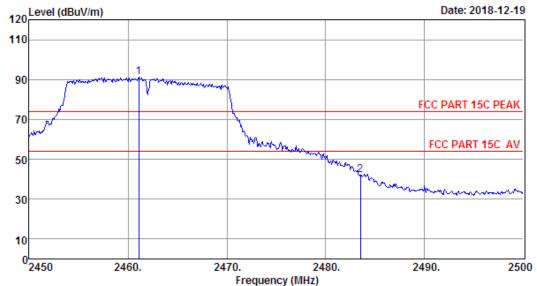
Freq.		Factor	Reading	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
2457.25 2483.50			94.44 41.43	90.09 37.07	74.00 74.00	-16.09 36.93	Peak Peak

- 2. Margin= Limit Emission Level.
- The emission levels that are 20dB below the official limit are not reported.



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Data: 75 File: \\Emc-966-1\test data\\2018\\RF\C\Chunghsin\\ONA19TB003.EM6 (171)



Site no. : 1# 966 Chamber Data no. : 75
Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : HORIZONTAL

Limit : FCC PART 15C PEAK

Env. / Ins. : Temp:23.6'; Humi:56%; Press:101.52kPa

Engineer : Seven

EUT : 10.1" Android Tablet

Power : DC 5V From Adapter Input AC 120V/60Hz

M/N : ONA19TB003

Test Mode : IEEE 802.11g TX 2462MHz

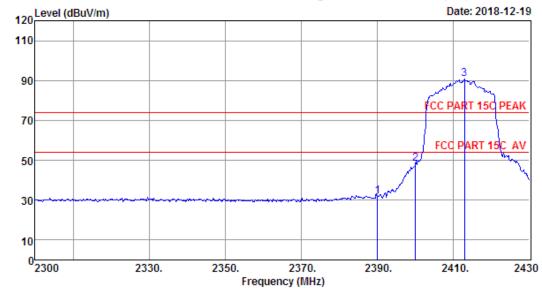
Freq.		Factor	Reading	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
2461.10 2483.50			95.35 46.42	91.00 42.06	74.00 74.00	-17.00 31.94	Peak Peak

- 2. Margin= Limit Emission Level.
- The emission levels that are 20dB below the official limit are not reported.



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Data: 76 File: \\Emc-966-1\test data\\2018\\RF\C\Chunghsin\ONA19TB003.EM6 (171)



Site no. : 1# 966 Chamber Data no. : 76
Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : VERTICAL

Limit : FCC PART 15C PEAK

Env. / Ins. : Temp:23.6'; Humi:56%; Press:101.52kPa

Engineer : Seven

EUT : 10.1" Android Tablet

Power : DC 5V From Adapter Input AC 120V/60Hz

M/N : ONA19TB003

Test Mode : IEEE 802.11n HT20 TX 2412MHz

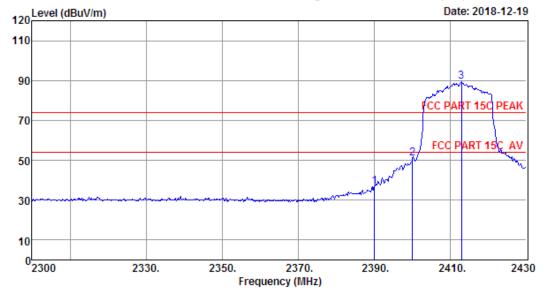
	Freq.		Cable Loss (dB)	-	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.00	27.35	3.21	34.87	36.31	32.00	74.00	42.00	Peak
2	2400.00	27.35	3.21	34.94	52.63	48.25	74.00	25.75	Peak
3	2412.84	27.39	3.23	34.94	95.06	90.74	74.00	-16.74	Peak

- 2. Margin= Limit Emission Level.
- The emission levels that are 20dB below the official limit are not reported.



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Data: 77 File: \\Emc-966-1\test data\\2018\\RF\C\Chunghsin\ONA19TB003.EM6 (171)



Site no. : 1# 966 Chamber Data no. : 77

Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : HORIZONTAL

Limit : FCC PART 15C PEAK

Env. / Ins. : Temp:23.6'; Humi:56%; Press:101.52kPa

Engineer : Seven

EUT : 10.1" Android Tablet

Power : DC 5V From Adapter Input AC 120V/60Hz

M/N : ONA19TB003

Test Mode : IEEE 802.11n HT20 TX 2412MHz

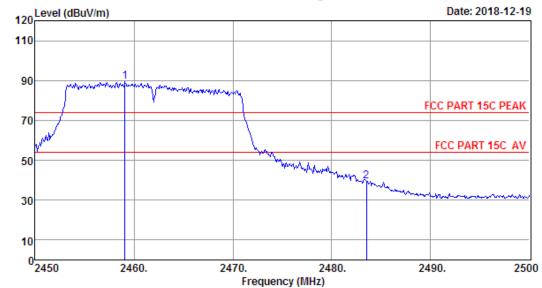
	Freq.		Cable Loss (dB)	-	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
 1	2390.00	27.35	3.21	34.87	40.92	36.61	74.00	37.39	Peak
2	2400.00	27.35	3.21	34.94	55.15	50.77	74.00	23.23	Peak
3	2412.84	27.39	3.23	34.94	93.55	89.23	74.00	-15.23	Peak

- 2. Margin= Limit Emission Level.
- The emission levels that are 20dB below the official limit are not reported.



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Data: 78 File: \\Emc-966-1\test data\2018\\RF\C\Chunghsin\ONA19TB003.EM6 (171)



Site no. : 1# 966 Chamber Data no. : 78
Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : VERTICAL

Limit : FCC PART 15C PEAK

Env. / Ins. : Temp:23.6'; Humi:56%; Press:101.52kPa

Engineer : Seven

EUT : 10.1" Android Tablet

Power : DC 5V From Adapter Input AC 120V/60Hz

M/N : ONA19TB003

Test Mode : IEEE 802.11n HT20 TX 2462MHz

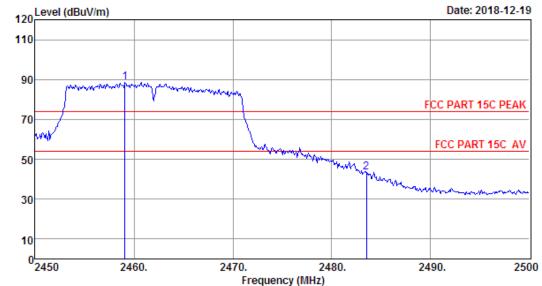
	Freq.		Factor	_	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 2	2459.10 2483.50			93.76 43.77	89.41 39.41	74.00 74.00	-15.41 34.59	Peak Peak

- 2. Margin= Limit Emission Level.
- The emission levels that are 20dB below the official limit are not reported.



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Data: 79 File: \\Emc-966-1\test data\\2018\\RF\C\Chunghsin\ONA19TB003.EM6 (171)



Site no. : 1# 966 Chamber Data no. : 79
Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : HORIZONTAL

Limit : FCC PART 15C PEAK

Env. / Ins. : Temp:23.6'; Humi:56%; Press:101.52kPa

Engineer : Seven

EUT : 10.1" Android Tablet

Power : DC 5V From Adapter Input AC 120V/60Hz

M/N : ONA19TB003

Test Mode : IEEE 802.11n HT20 TX 2462MHz

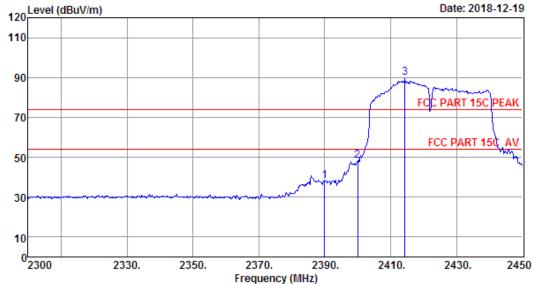
	Freq.		Factor	Reading	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 2	2459.10 2483.50				88.58 43.30	74.00 74.00	-14.58 30.70	Peak Peak

- 2. Margin= Limit Emission Level.
- The emission levels that are 20dB below the official limit are not reported.



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Data: 80 File: \\Emc-966-1\test data\2018\RF\C\Chunghsin\ONA19TB003.EM6 (171) 120 Level (dBuV/m)



Site no. : 1# 966 Chamber Data no. : 80 Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : VERTICAL

: FCC PART 15C PEAK

Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa

Engineer : Seven

: 10.1" Android Tablet EUT

: DC 5V From Adapter Input AC 120V/60Hz Power

M/N : ONA19TB003

: IEEE 802.11n HT40 TX 2422MHz Test Mode

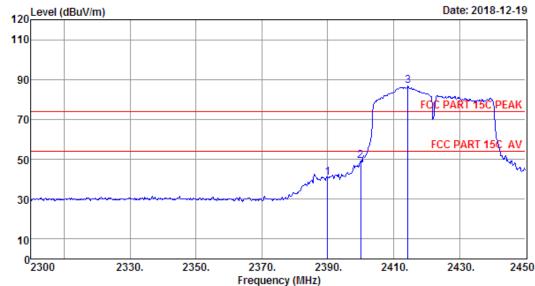
	Freq.		Cable Loss (dB)	-	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.00	27.35	3.21	34.87	42.19	37.88	74.00	36.12	Peak
2	2400.00	27.35	3.21	34.94	52.55	48.17	74.00	25.83	Peak
3	2414.30	27.39	3.23	34.94	94.00	89.68	74.00	-15.68	Peak

- 2. Margin= Limit Emission Level.
- 3. The emission levels that are 20dB below the official limit are not reported.



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Data: 81 File: \\Emc-966-1\\test data\\2018\\RF\\C\\Chunghsin\\ONA19TB003.EM6 (171)



Site no. : 1# 966 Chamber Data no. : 81
Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : HORIZONTAL

Limit : FCC PART 15C PEAK

Env. / Ins. : Temp:23.6'; Humi:56%; Press:101.52kPa

Engineer : Seven

EUT : 10.1" Android Tablet

Power : DC 5V From Adapter Input AC 120V/60Hz

M/N : ONA19TB003

Test Mode : IEEE 802.11n HT40 TX 2422MHz

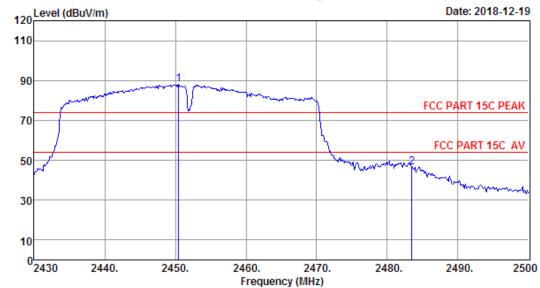
	Freq.		Cable Loss (dB)	-	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.00	27.35	3.21	34.87	45.19	40.88	74.00	33.12	Peak
2	2400.00	27.35	3.21	34.94	53.55	49.17	74.00	24.83	Peak
3	2414.30	27.39	3.23	34.94	91.00	86.68	74.00	-12.68	Peak

- 2. Margin= Limit Emission Level.
- The emission levels that are 20dB below the official limit are not reported.



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Data: 82 File: \\Emc-966-1\test data\\2018\\RF\C\Chunghsin\ONA19TB003.EM6 (171)



Site no. : 1# 966 Chamber Data no. : 82
Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : VERTICAL

Limit : FCC PART 15C PEAK

Env. / Ins. : Temp:23.6'; Humi:56%; Press:101.52kPa

Engineer : Seven

EUT : 10.1" Android Tablet

Power : DC 5V From Adapter Input AC 120V/60Hz

M/N : ONA19TB003

Test Mode : IEEE 802.11n HT40 TX 2452MHz

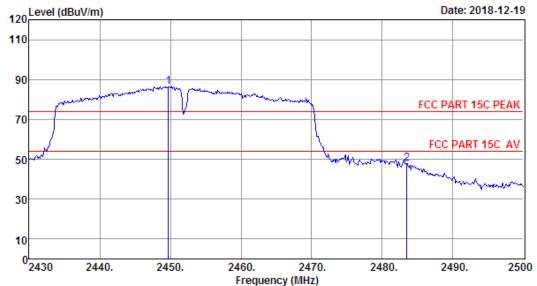
Freq.		Factor	Reading	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
2450.44 2483.50			92.30 51.03	87.97 46.67	74.00 74.00	-13.97 27.33	Peak Peak

- 2. Margin= Limit Emission Level.
- The emission levels that are 20dB below the official limit are not reported.



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Data: 83 File: \\Emc-966-1\test data\\2018\\RF\C\Chunghsin\ONA19TB003.EM6 (171)



Site no. : 1# 966 Chamber Data no. : 83

Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : HORIZONTAL

Limit : FCC PART 15C PEAK

Env. / Ins. : Temp:23.6'; Humi:56%; Press:101.52kPa

Engineer : Seven

EUT : 10.1" Android Tablet

Power : DC 5V From Adapter Input AC 120V/60Hz

M/N : ONA19TB003

Test Mode : IEEE 802.11n HT40 TX 2452MHz

	Freq.		Factor	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 2	2449.74 2483.50	 		90.65 52.32	86.32 47.96	74.00 74.00	-12.32 26.04	Peak Peak

- 2. Margin= Limit Emission Level.
- The emission levels that are 20dB below the official limit are not reported.



6 6dB & 20dB Bandwidth Test

6.1 Limit

For direct sequence systems, the minimum 6dB bandwidth shall be at least 500kHz

6.2 Test Procedure for 6dB

- 1, The transmitter output (antenna port) was connected to the spectrum analyzer. Connect EUT antenna terminal to the spectrum analyzer with a low loss SMA cable.
- 2, Follow the test procedure as described in KDB 558074
 - (1). Set resolution bandwidth (RBW) = 100 kHz.
 - (2). Set the video bandwidth (VBW) $\geq 3 \times RBW$.
 - (3). Detector = Peak.
 - (4). Trace mode = \max hold.
 - (5). Sweep = auto couple.
 - (6). Allow the trace to stabilize.
 - (7). Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

6.3 Test Procedure for 20dB

- 1, The transmitter output (antenna port) was connected to the spectrum analyzer. Connect EUT antenna terminal to the spectrum analyzer with a low loss SMA cable.
- 2, Follow the test procedure as described in C63.10
 - (1). The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The span range for the EMI receiver or spectrum analyzer shall be between two times and five times the OBW.
 - (2). The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to 5% of the OBW andvideo bandwidth (VBW) shall be approximately three times RBW, unless otherwise specified by the applicable requirement.
 - (3). Set the reference level of the instrument as required, keeping the signal from exceeding the maximum input mixer level for linear operation. In general, the peak of the spectral envelope shall be more than [10 log (OBW/RBW)] below the reference level. Specific guidance is given in 4.1.5.2.
 - (4). Steps a) through c) might require iteration to adjust within the specified tolerances.
 - (5). The dynamic range of the instrument at the selected RBW shall be more than 10 dB below the target "-xx dB down" requirement; that is, if the requirement calls for measuring the -20 dB OBW, the instrument noise floor at the selected RBW shall be at least 30 dB below the reference value.
 - (6). Set detection mode to peak and trace mode to max hold.
 - (7). Determine the reference value: Set the EUT to transmit an unmodulated carrier or modulated signal, as applicable. Allow the trace to stabilize. Set the spectrum analyzer marker to the highest level of the displayed trace (this is the reference value).
 - (8). Determine the "-xx dB down amplitude" using [(reference value) -xx]. Alternatively, this calculation may be made by using the marker-delta function of the instrument.
 - (9). If the reference value is determined by an unmodulated carrier, then turn the EUT modulation ON, and either clear the existing trace or start a new trace on the spectrum analyzer and allow the new trace to stabilize. Otherwise, the trace from step g) shall be used for step j).
 - (10). Place two markers, one at the lowest frequency and the other at the highest frequency of the envelope of the spectral display, such that each marker is at or slightly below the "_xx dB down amplitude" determined in step h). If a marker is below this "-xx dB down amplitude" value,



then it shall be as close as possible to this value. The occupied bandwidth is the frequency difference between the two markers. Alternatively, set a marker at the lowest frequency of the envelope of the spectral display, such that the marker is at or slightly below the "_xx dB down amplitude" determined in step h). Reset the marker-delta function and move the marker to the other side of the emission until the delta marker amplitude is at the same level as the reference marker amplitude. The marker-delta frequency reading at this point is the specified emission bandwidth.

(11). The occupied bandwidth shall be reported by providing plot(s) of the measuring instrument display; the plot axes and the scale units per division shall be clearly labeled. Tabular data may be reported in addition to the plot(s).

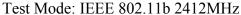


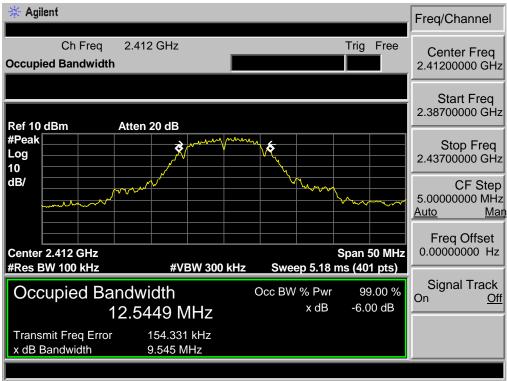
6.4 Test Result

EUT: 10.1" Android	Tablet				
M/N: ONA19TB003					
Test date: 2019-01-0	3	Test site: RF Site	Tested by: Seven		
Test Mode	СН	6dB bandwidth (MHz)	20dB bandwidth (MHz)	Limit	
				6dB BW	20dB BW
				(KHz)	
	CH1	9.545	14.289	>500	/
IEEE 802.11 b	CH6	9.209	14.405	>500	/
	CH11	9.215	14.427	>500	/
	CH1	16.006	18.550	>500	/
IEEE 802.11 g	СН6	16.391	18.781	>500	/
	CH11	16.440	18.681	>500	/
YEEE 000 11	CH1	17.255	19.191	>500	/
IEEE 802.11 n	CH6	17.662	19.299	>500	/
HT 20	CH11	17.674	19.298	>500	/
IEEE 002 11	CH3	35.946	39.434	>500	/
IEEE 802.11 n	CH6	36.297	39.613	>500	/
HT 40	СН9	36.073	39.330	>500	/
Conclusion: PASS		1			

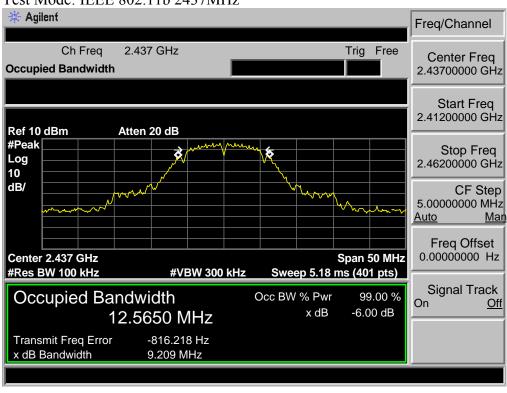


6.5 6dB Test Data

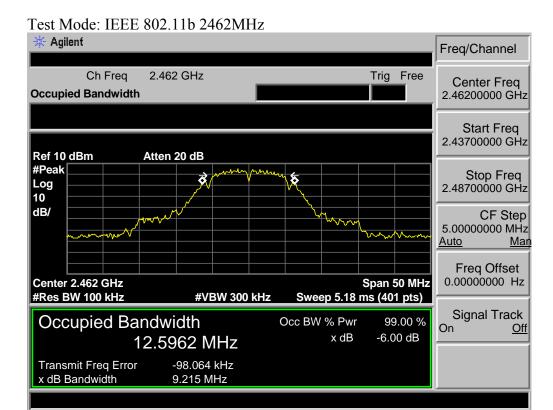




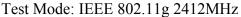
Test Mode: IEEE 802.11b 2437MHz

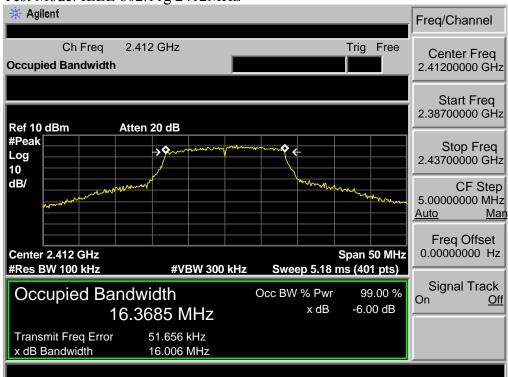




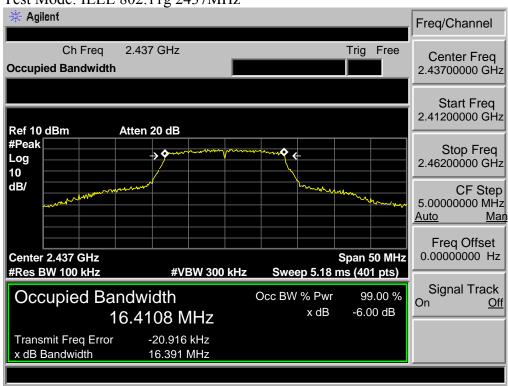




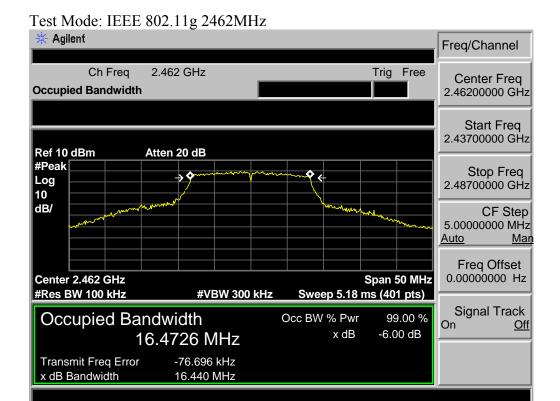




Test Mode: IEEE 802.11g 2437MHz

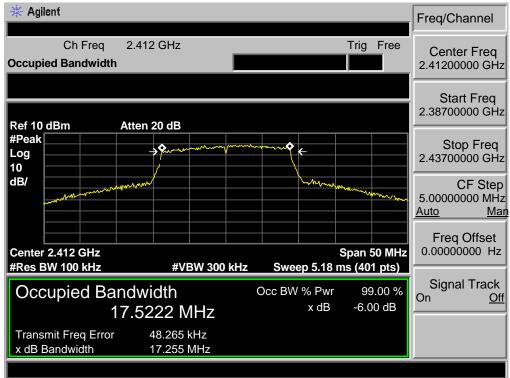




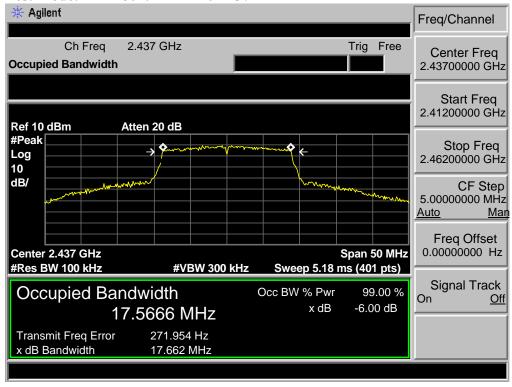








Test Mode: IEEE 802.11n HT20 2437MHz



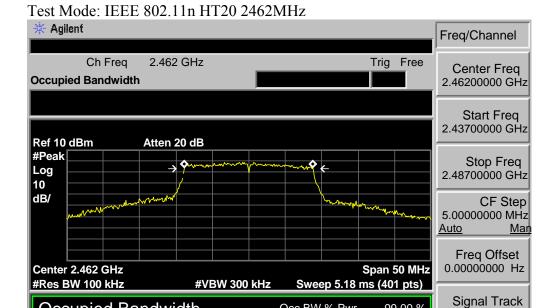
Occupied Bandwidth

Transmit Freq Error x dB Bandwidth

17.5977 MHz

-39.233 kHz

17.674 MHz



Occ BW % Pwr

x dB

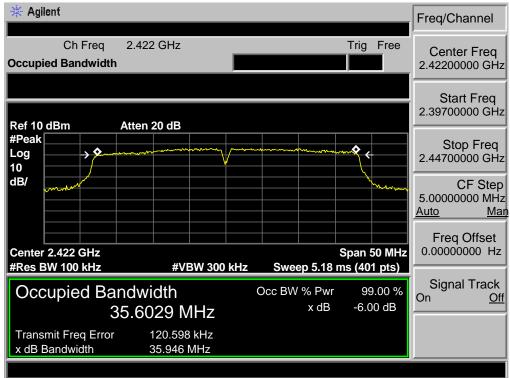
99.00 %

-6.00 dB

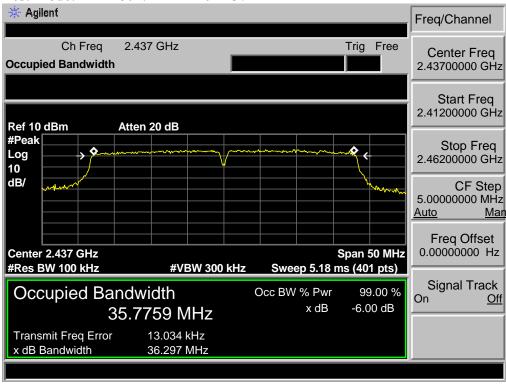
Off





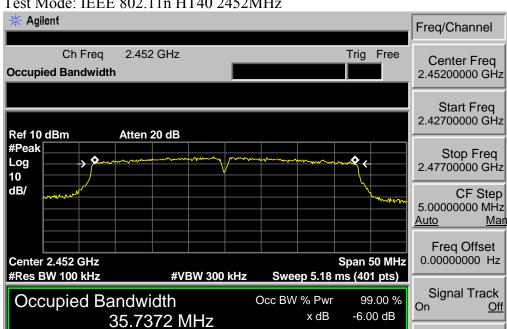


Test Mode: IEEE 802.11n HT40 2437MHz





Transmit Freq Error x dB Bandwidth





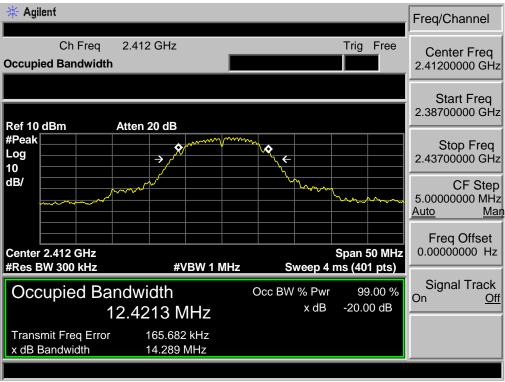
-39.565 kHz

36.073 MHz

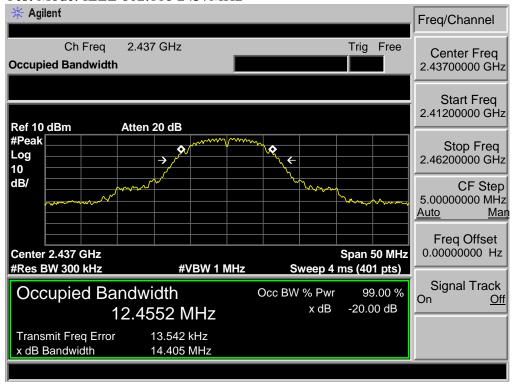


6.6 20dB Test Data

Test Mode: IEEE 802.11b 2412MHz

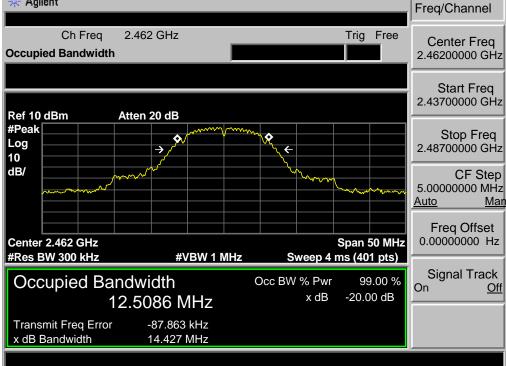


Test Mode: IEEE 802.11b 2437MHz



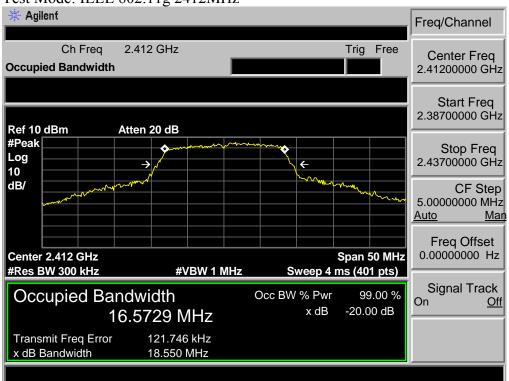




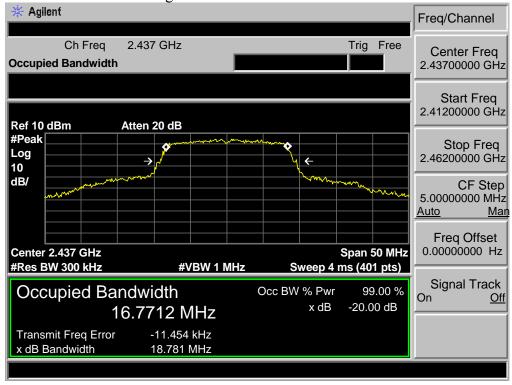




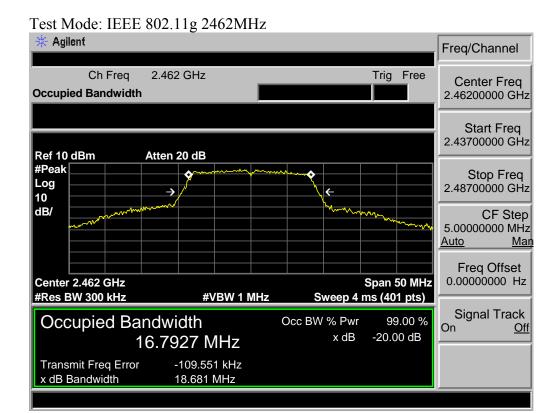
Test Mode: IEEE 802.11g 2412MHz



Test Mode: IEEE 802.11g 2437MHz

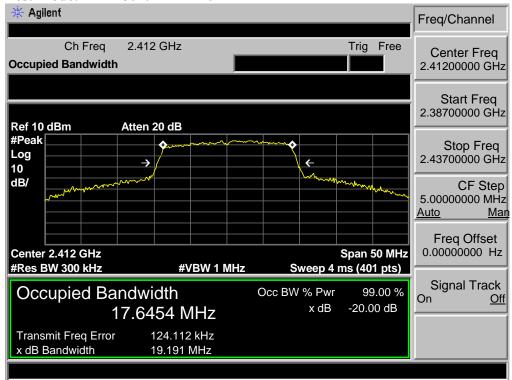




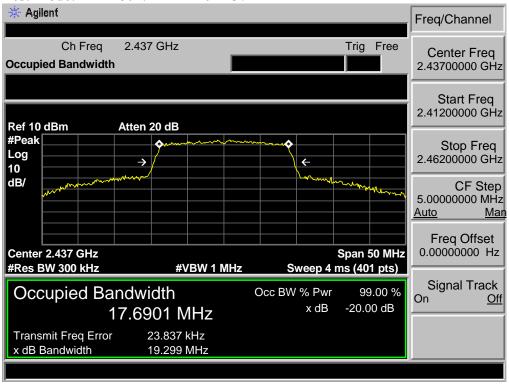








Test Mode: IEEE 802.11n HT20 2437MHz





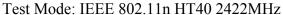
Transmit Freq Error x dB Bandwidth

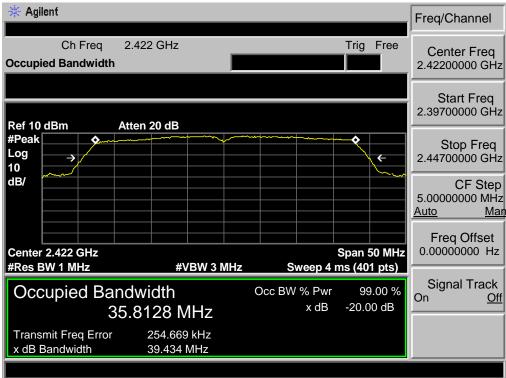


19.298 MHz

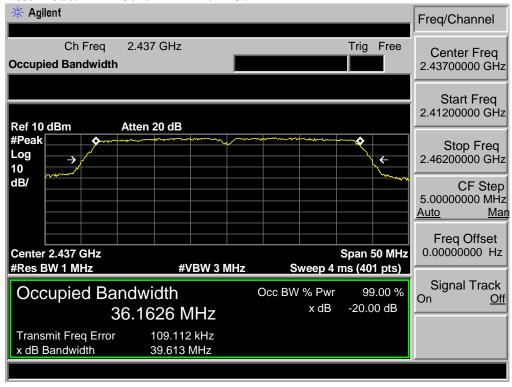


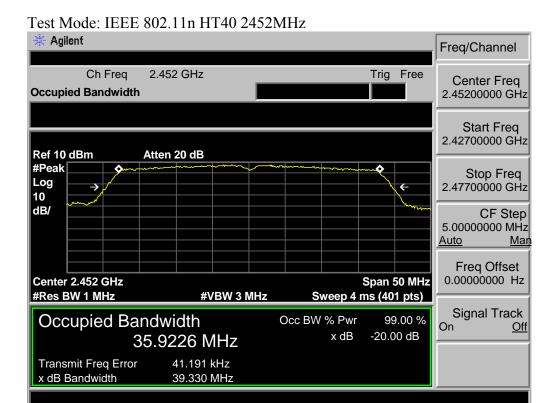
EST





Test Mode: IEEE 802.11n HT40 2437MHz







7 OUTPUT POWER TEST

7.1 Limit

For systems using digital modulation in the 2400—2483.5MHz, The Peak out put Power shall not exceed 1W(30dBm)

7.2 Test Procedure

- 1, The transmitter output (antenna port) was connected to the spectrum analyzer. Connect EUT antenna terminal to the spectrum analyzer with a low loss SMA cable.
- 2, Follow the test procedure as described in KDB 558074
 - (1)Set span to at least 1.5 times the OBW.
 - (2)Set RBW = 1-5% of the OBW, not to exceed 1 MHz.
 - (3)Set $VBW \ge 3 \times RBW$.
 - (4) Number of points in sweep $\geq 2 \times \text{span} / \text{RBW}$. (This gives bin-to-bin spacing $\leq \text{RBW}/2$, so that narrowband signals are not lost between frequency bins.)
 - (4)Sweep time = auto.
 - (5) Detector = RMS (i.e., power averaging), if available. Otherwise, use sample detector mode.
 - (6)If transmit duty cycle < 98 %, use a sweep trigger with the level set to enable triggering only on full power pulses. The transmitter shall operate at maximum power control level for the entire duration of every sweep. If the EUT transmits continuously (i.e., with no off intervals) or at duty cycle ≥ 98 %, and if each transmission is entirely at the maximum power control level, then the trigger shall be set to "free run".
 - (7) Trace average at least 100 traces in power averaging (i.e., RMS) mode.
 - (8)Compute power by integrating the spectrum across the OBW of the signal using the instrument's band power measurement function, with band limits set equal to the OBW band edges. If the instrument does not have a band power function, sum the spectrum levels (in power units) at intervals equal to the RBW extending across the entire OBW of the spectrum.

Note: The cable loss and attenuator loss were offset into measure device as an amplitude offset.



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7.3 Test Result

EUT: 10.1" And	roid Tablet		
M/N: ONA19TI	3003		
Test date: 2019-01-03		Test site: RF Site	Tested by: Seven
		Pass	
Test Mode	СН	Conducted Power (dBm)	Limit (dBm)
IEEE 802.11 b	CH1	13.81	30
	СН6	14.81	30
	CH11	14.99	30
IEEE 802.11 g	CH1	12.12	30
	СН6	12.38	30
	CH11	12.26	30
IEEE 802.11 n HT 20	CH1	12.28	30
	CH6	12.27	30
	CH11	12.25	30
IEEE 802.11 n HT 40	СНЗ	11.29	30
	СН6	11.63	30
	СН9	10.98	30
Conclusion: PA	ASS		

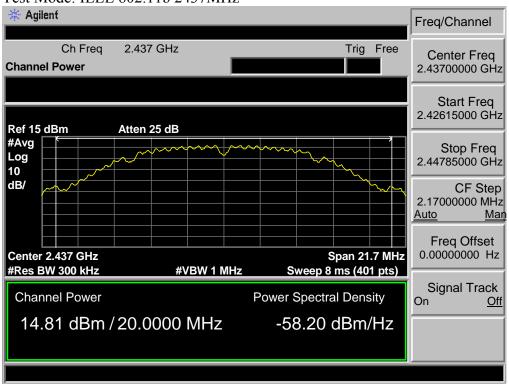


7.4 Test Data

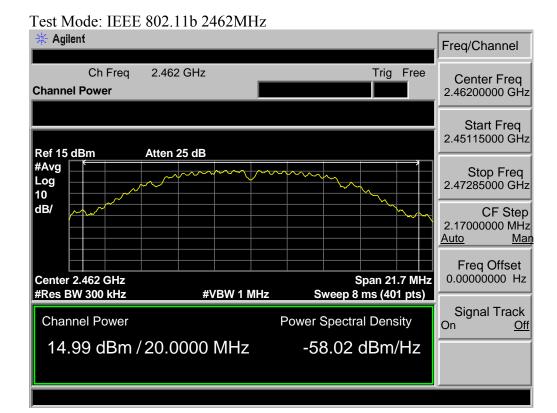
Test Mode: IEEE 802.11b 2412MHz



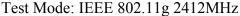
Test Mode: IEEE 802.11b 2437MHz

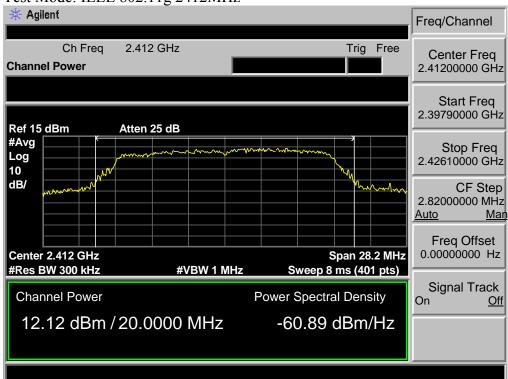




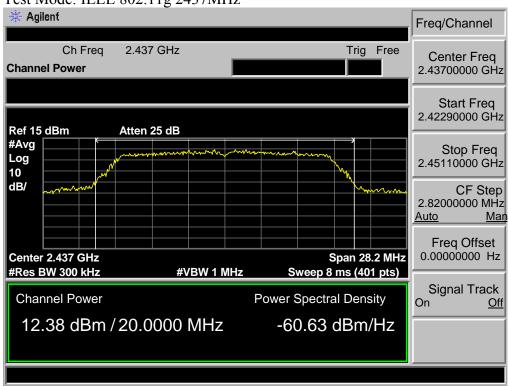




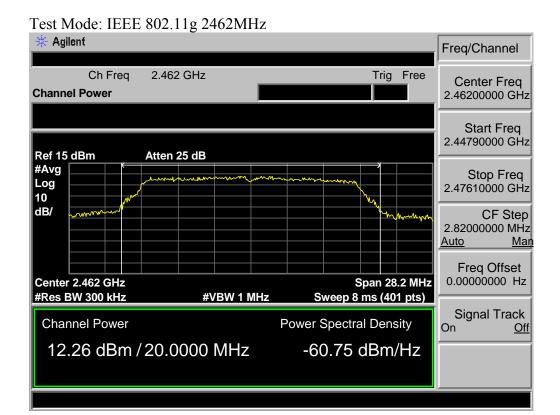




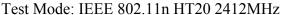
Test Mode: IEEE 802.11g 2437MHz

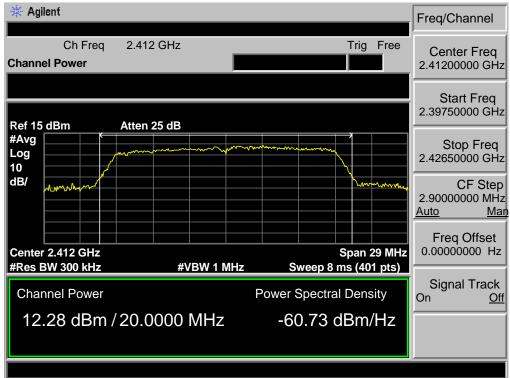




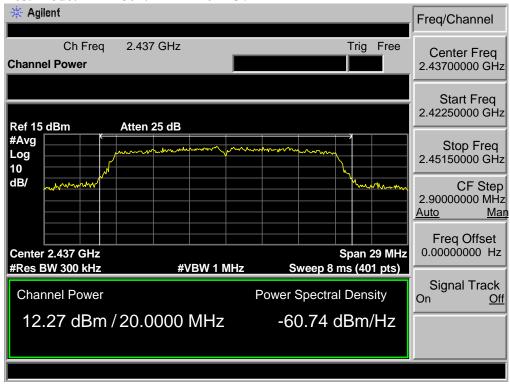




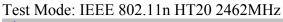


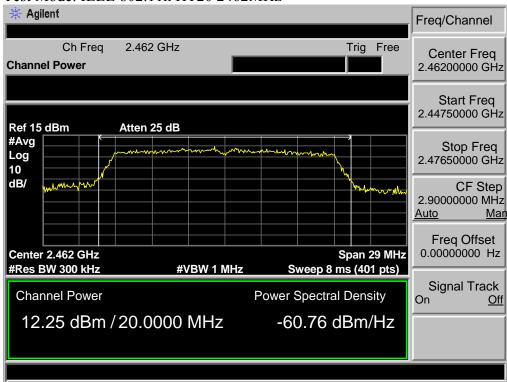


Test Mode: IEEE 802.11n HT20 2437MHz

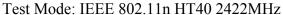


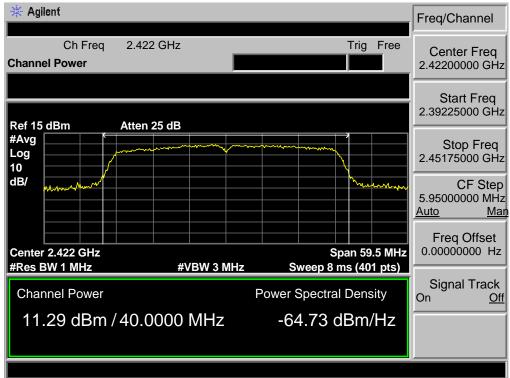




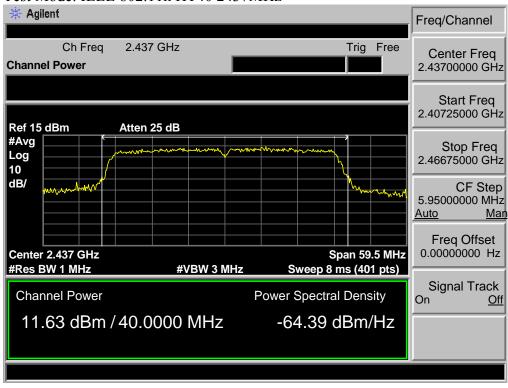




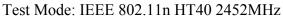




Test Mode: IEEE 802.11n HT40 2437MHz











8 POWER SPECTRAL DENSITY TEST

8.1 Limit

For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8dBm in any 3kHz band during any time interval of continuous transmission.

8.2 Test Procedure

- 1, The transmitter output (antenna port) was connected to the spectrum analyzer. Connect EUT antenna terminal to the spectrum analyzer with a low loss SMA cable.
- 2, Follow the test procedure as described in KDB 558074
- (1). Set analyzer center frequency to DTS channel center frequency.
- (2). Set the span to 1.5 times the DTS bandwidth.
- (3). Set the RBW to: $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$.
- (4). Set the VBW \geq 3 RBW.
- (5). Detector = peak.
- (6). Sweep time = auto couple.
- (7). Trace mode = $\max \text{ hold}$.
- (8). Allow trace to fully stabilize.
- (9). Use the peak marker function to determine the maximum amplitude level.
- (10). If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.



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8.3 Test Result

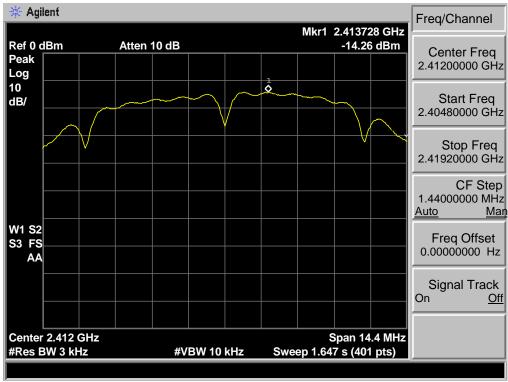
EUT: 10.1" And	roid Tablet		
M/N: ONA19TE	3003		
Test date: 2019-01-03		Test site: RF Site	Tested by: Seven
		Pass	
Test Mode	СН	Power density (dBm/3kHz)	Limit (dBm/3kHz)
IEEE 802.11 b	CH1	-14.26	8
	СН6	-14.02	8
	CH11	-14.35	8
IEEE 802.11 g	CH1	-14.37	8
	СН6	-14.92	8
	CH11	-15.26	8
IEEE 802.11 n HT 20	CH1	-15.15	8
	СН6	-14.30	8
	CH11	-15.28	8
IEEE 802.11 n HT 40	СНЗ	-17.07	8
	СН6	-16.64	8
	СН9	-16.80	8
Conclusion: PA	SS		



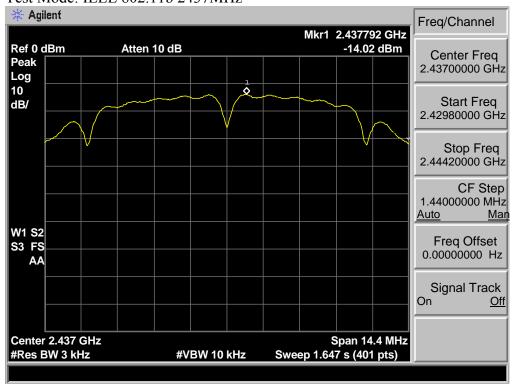
Report No. ESTE-R1901046

8.4 Test Data

Test Mode: IEEE 802.11b 2412MHz

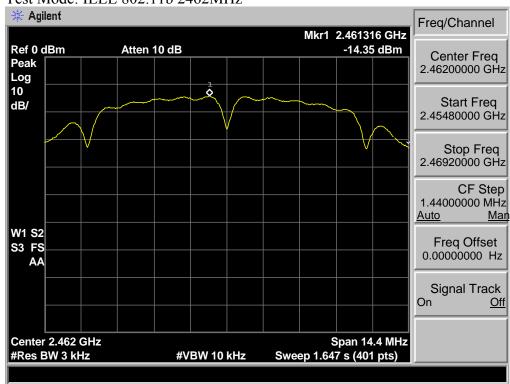


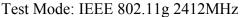
Test Mode: IEEE 802.11b 2437MHz

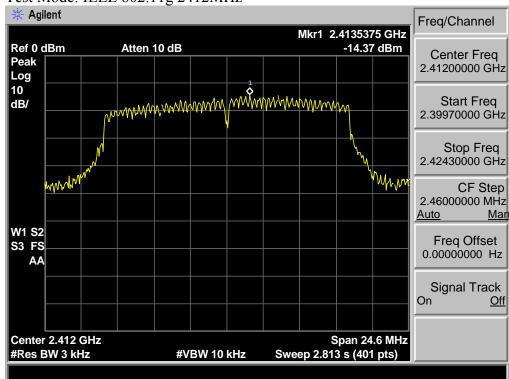




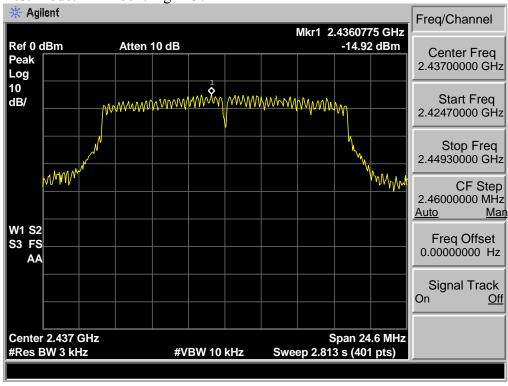




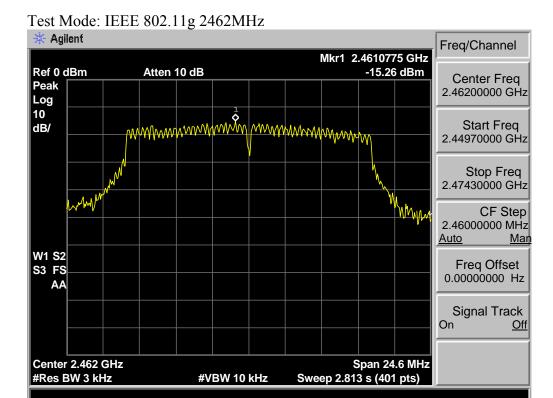




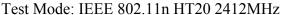
Test Mode: IEEE 802.11g 2437MHz

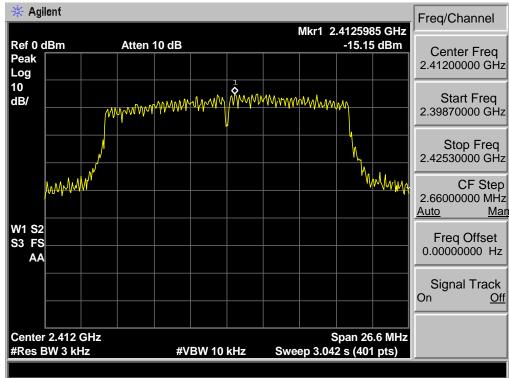




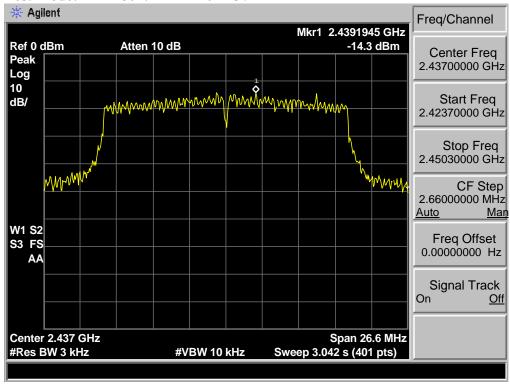






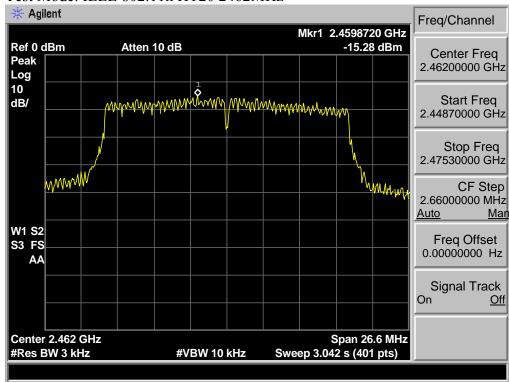


Test Mode: IEEE 802.11n HT20 2437MHz

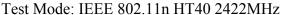


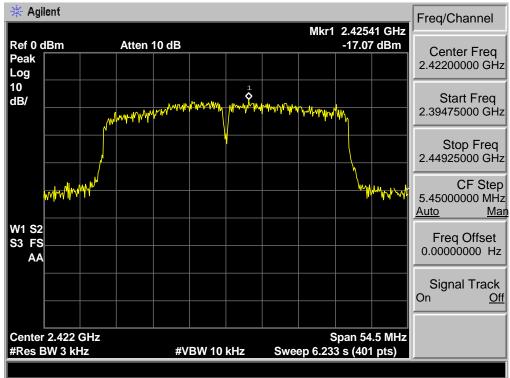


Test Mode: IEEE 802.11n HT20 2462MHz

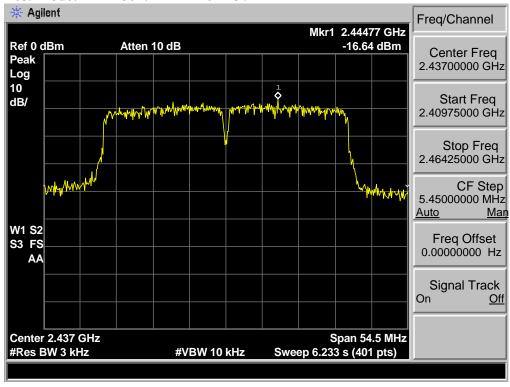






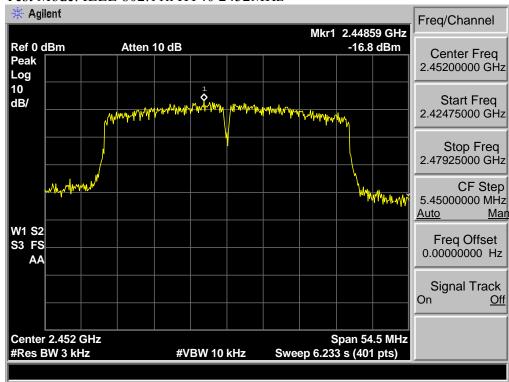


Test Mode: IEEE 802.11n HT40 2437MHz





Test Mode: IEEE 802.11n HT40 2452MHz





9 ANTENNA REQUIREMENTS

9.1 Limit

For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. And according to FCC 47 CFR Section 15.247 (b), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

9.2 Result

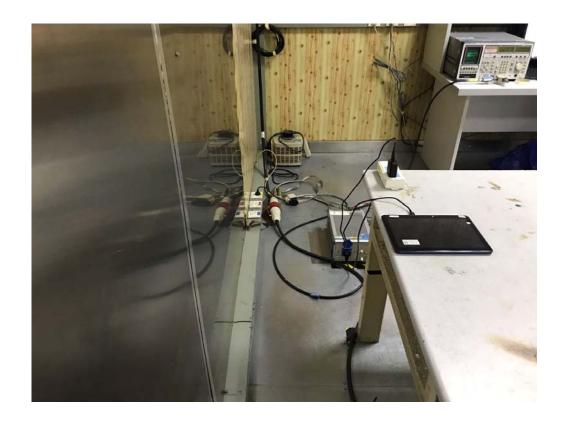
The antennas used for this product are Internal antenna and that no antenna other than that furnished by the responsible party shall be used with the device, the maximum peak gain of the transmit antenna is only 1.32 dBi.



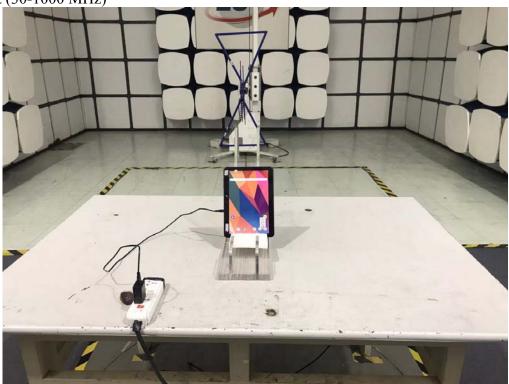
10 TEST SETUP PHOTO

Conducted Test

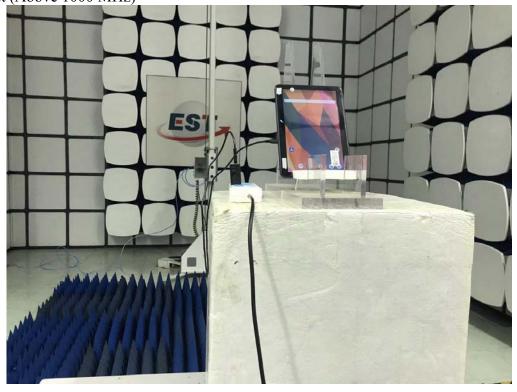




Radiated Test (30-1000 MHz)

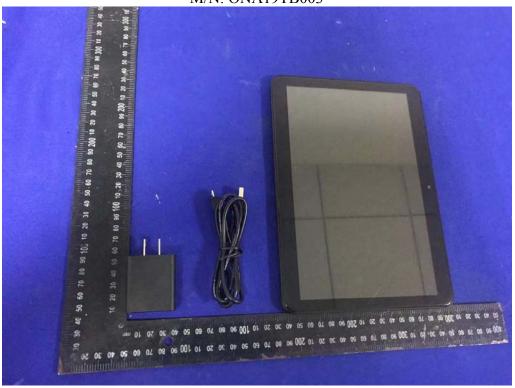


Radiated Test (Above 1000 MHz)



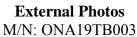
11 PHOTOS OF EUT

External Photos M/N: ONA19TB003









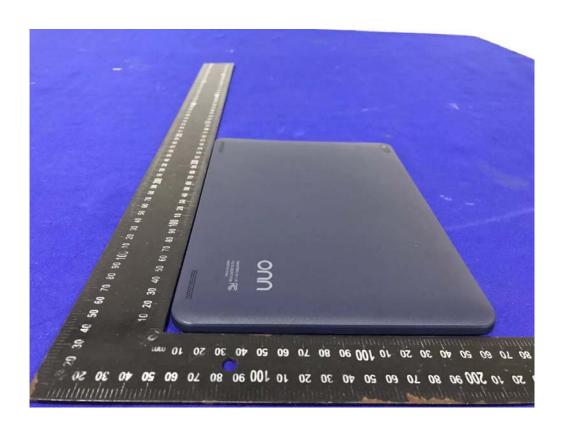






External Photos M/N: ONA19TB003

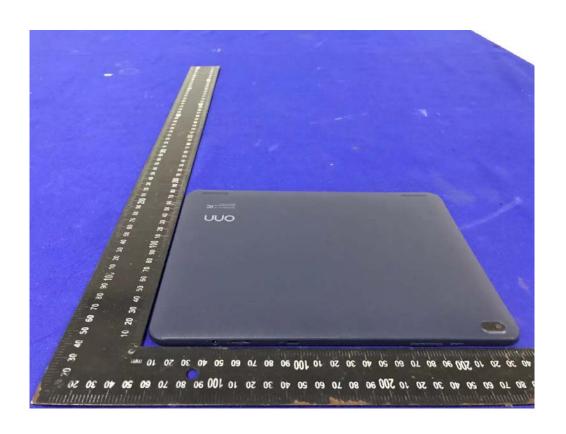






External Photos M/N: ONA19TB003







External Photos M/N: ONA19TB003

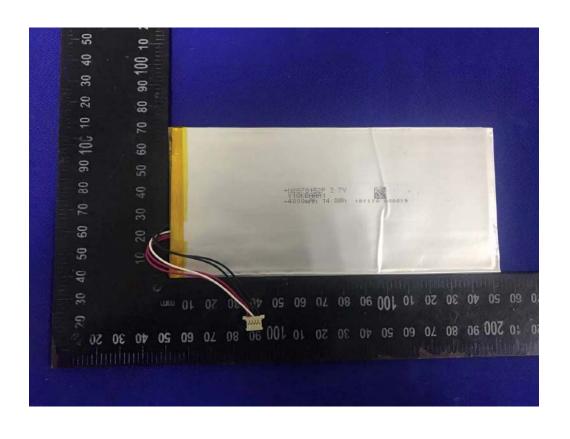




Internal Photos M/N: ONA19TB003



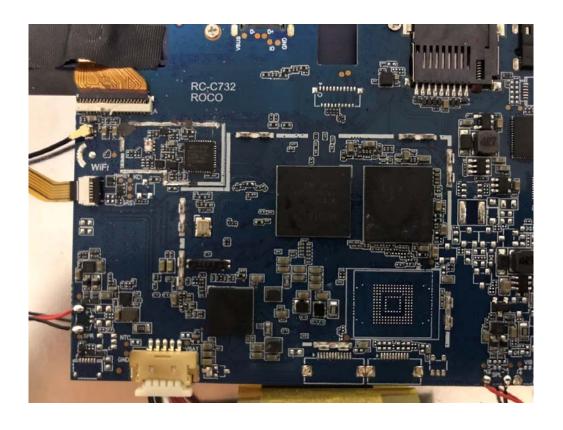
RF Antenna





Internal Photos M/N: ONA19TB003







Internal Photos M/N: ONA19TB003



RF Antenna Port

