

FCC PART 15E TEST REPORT FOR CERTIFICATION
On Behalf of

Chunghsin Technology Group CO.,LTD

8" Android Tablet

Model Number: ONA19TB002

Additional Model: ONA19TB010

FCC ID: 2AE2WT0815M

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
Tel: 86-769-83081888-808	

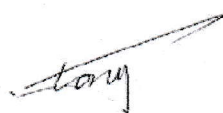
Report Number:	ESTE-R1901015
Date of Test:	Dec. 11, 2018~Jan. 17, 2019
Date of Report:	Jan. 17, 2019

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EST Technology Co., Ltd.

Applicant:	Chunghsin Technology Group CO.,LTD		
Address:	No. 618-2 GONGREN WEST ROAD, JIAOJIANG AREA, TAIZHOU CITY, ZHEJIANG, CHINA		
Manufacturer:	Chunghsin Technology Group CO.,LTD		
Address:	No. 618-2 GONGREN WEST ROAD, JIAOJIANG AREA, TAIZHOU CITY, ZHEJIANG, CHINA		
E.U.T:	8" Android Tablet		
Model Number:	ONA19TB002		
Additional Model:	ONA19TB010 (They are identical except model name only)		
Power Supply:	DC 5V From Adapter Input AC 100~240V, 50/60Hz, 0.3A DC 3.7V From battery		
Test Voltage:	DC 5V From Adapter Input AC 120V/60Hz, 0.3A DC 5V From Adapter Input AC 240V/50Hz, 0.3A		
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 Regulations Part 15 Subpart E:2018 ANSI C63.10:2013		
Test Result:	The device described above is tested by EST Technology Co., Ltd. The measurement results were contained in this test report and EST Technology Co., Ltd. was assumed full responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT to be technically compliance with the FCC Rules and Regulations Part 15 Subpart E requirements. This report applies to above tested sample only and shall not be reproduced in part without written approval of EST Technology Co., Ltd. Date: Jan. 17, 2019		
Prepared by:	Reviewed by:	Approved by:	
 Ring / Assistant	 Tony / Engineer	 Iceman Hu / Manager	
Other Aspects:	None.		
<i>Abbreviations: OK/P=passed fail/F=failed n.a/N=not applicable E.U.T=equipment under tested</i>			
<i>This test report is based on a single evaluation of one sample of above mentioned products ,It is not permitted to be duplicated in extracts without written approval of EST Technology Co., Ltd.</i>			

1. GENERAL INFORMATION

1.1. Description of Device (EUT)

Product Name	:	8" Android Tablet
FCC ID	:	2AE2WT0815M
Model Number	:	ONA19TB002
Operation frequency	:	UNII Band I: IEEE 802.11a: 5180 ~ 5240MHz; IEEE 802.11n HT20: 5180 ~ 5240MHz; IEEE 802.11n HT40: 5190 ~ 5230MHz; UNII Band II: IEEE 802.11a: 5260 ~ 5320MHz; IEEE 802.11n HT20: 5260 ~ 5320MHz; IEEE 802.11n HT40: 5270 ~ 5310MHz; UNII Band III: IEEE 802.11a: 5500 ~ 5700MHz; IEEE 802.11n HT20: 5500 ~ 5700MHz; IEEE 802.11n HT40: 5510 ~ 5670MHz; UNII Band IV: IEEE 802.11a: 5745 ~ 5825MHz; IEEE 802.11n HT20: 5745 ~ 5825MHz; IEEE 802.11n HT40: 5755 ~ 5795MHz;
Number of channel	:	UNII Band I: IEEE 802.11a / n HT20 IEEE 802.11n HT40 UNII Band II: IEEE 802.11a / n HT20 IEEE 802.11n HT40 UNII Band III: IEEE 802.11a / n HT20 IEEE 802.11n HT40 UNII Band IV: IEEE 802.11a / n HT20 IEEE 802.11n HT40

Modulation	:	OFDM(QPSK, BPSK, 16-QAM, 64-QAM, 256-QAM)	
Transmit Data Rate	:	IEEE 802.11a: 54, 48, 36, 24, 18, 12, 9, 6Mbps; IEEE 802.11n HT20: 14.4, 28.9, 43.3, 57.8, 86.7, 115.6, 130.0, 144.4 Mbps; IEEE 802.11n HT40: 30, 60, 90, 120, 180, 240, 270, 300 Mbps;	
Channels Spacing	:	IEEE 802.11a: 20MHz; IEEE 802.11n HT20: 20MHz; IEEE 802.11n HT40: 40MHz;	
Antenna	:	Internal antenna	
		Frequency Range	Antenna
		5150~5875 MHz	1.27 dBi
		Note: Bluetooth uses Antenna 11a,b,g,n, uses Antenna	
Transmit Power	:	UNII Band I: IEEE 802.11a: 4 Channels; IEEE 802.11n HT20: 4 Channels; IEEE 802.11n HT40: 2 Channels. UNII Band II: IEEE 802.11a: 4 Channels; IEEE 802.11n HT20: 4 Channels; IEEE 802.11n HT40: 2 Channels. UNII Band III: IEEE 802.11a: 8 Channels; IEEE 802.11n HT20: 8 Channels; IEEE 802.11n HT40: 3 Channels. UNII Band IV: IEEE 802.11a: 5 Channels; IEEE 802.11n HT20: 5 Channels; IEEE 802.11n HT40: 2 Channels.	
Sample Type	:	Prototype production	

2. SUMMARY OF TEST

2.1. Test methodology.

Both conducted and radiated testing was performed according to the procedures in ANSI C63.10. Radiated testing was performed at an antenna to EUT distance 3 meters. The tests documented in this report were performed in accordance with ANSI C63.10: 2013 and FCC CFR 47 Part 15.207, 15.209, 15.407 and FCC 14-30. Radio testing was performed according to KDB DA 02-2138, KDB 789033 D02, KDB 905462 D06.

2.2. Summary of test result

Description of Test Item	Standard	Results
99%, 6dB and 26dB Bandwidth	FCC Part 15: 407(a) FCC Part 15: 407(e)	PASS
Maximum Conducted Output Power	FCC Part 15: 407(a)	PASS
Peak Power Spectral Density	FCC Part 15: 407(a)	PASS
Radiated Spurious Emissions	FCC Part 15: 407(b)	PASS
Conducted Unwanted Emissions	FCC Part 15: 407(b)	PASS
Band Edge Measurement	FCC Part 15: 407(b)	PASS
Frequency Stability	FCC Part 15: 407(g)	PASS
Power Line Conducted Emissions	FCC Part 15: 207 FCC Part 15: 407(b)(6)	PASS
Antenna requirement	FCC Part 15: 203 FCC Part 15: 407(a)	PASS

2.3. 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

2.4. Measurement uncertainty for EST Technology Co., Ltd.

Test Item	Uncertainty
Uncertainty for Conduction emission test	2.54dB
Uncertainty for Radiation Emission test (30MHz-1GHz)	3.62
Uncertainty for Radiation Emission test (1GHz to 18GHz)	4.86
Uncertainty for spurious emissions test (18GHz to 40GHz)	4.67
Uncertainty for radio frequency	7×10-8
Uncertainty for conducted RF Power	0.20dB
Uncertainty for Power density test	0.26dB
Temperature	±0.6°C
Humidity	±4.0 %
Volatage DC	±1.0%
Volatage (AC, <10KHz)	±1.5%

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

2.5. Assistant equipment used for test

2.5.1. Router (Master)

Manufacturer : LINKSYS
 M/N : WRT3200ACM
 FCC ID : Q87-WRT3200ACM
 IC : 3839A-WRT3200ACM
 S/N : 1981060A621419
 MAC : 6038E0B87B20

2.5.2. Notebook

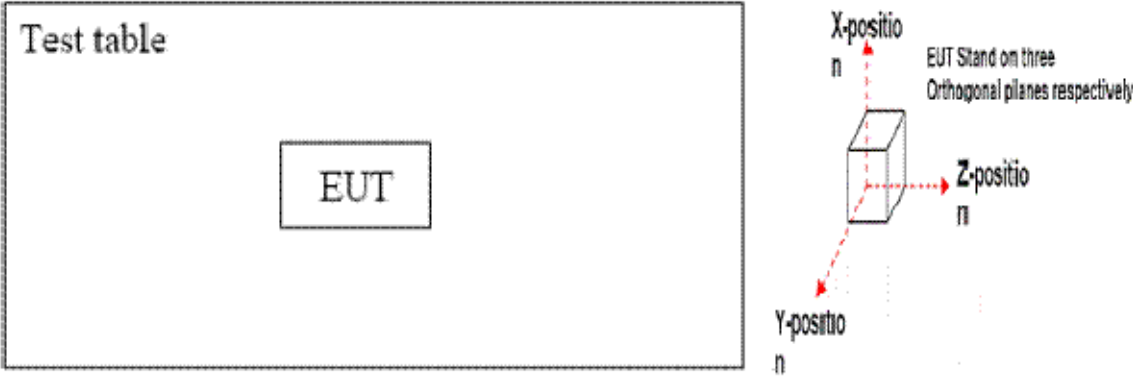
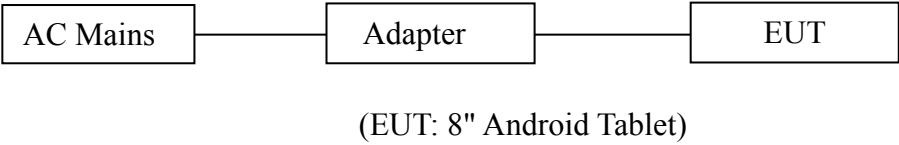
Manufacturer : DELL
 M/N : Laititude E6420
 Adapter : M/N: DA90PM111

2.5.3. Adapter

Manufacturer : onn
 M/N : BSY01J3050200U U
 Input : AC 100-240V, 50/60Hz, 0.3A
 Output : DC 5.0V, 2.0A

2.6. 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 TX test mode by software before test.



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

2.7. Test mode

The test software was used to control EUT work in Continuous TX mode, and select test channel, wireless mode

Band	Mode	Channel	Frequency (MHz)	Data rate (Mbps)
UNII Band I	IEEE 802.11a & n HT20 VHT20: 5180-5240MHz	Low	5180	6
		Middle	5200	6
		High	5240	6
	IEEE 802.11n HT40 : 5180-5240MHz	Low	5190	13.5
		High	5230	13.5
UNII Band II	IEEE 802.11a & n HT20: 5260-5320MHz	Low	5260	6
		Middle	5300	6
		High	5320	6
	IEEE 802.11n HT40: 5270-5310MHz	Low	5270	13.5
		High	5310	13.5
UNII Band III	IEEE 802.11a & n HT20: 5500-5700MHz	Low	5500	6
		Middle	5580	6
		High	5700	6
	IEEE 802.11n HT40: 5510-5670	Low	5510	13.5
		High	5670	13.5
UNII Band IV	IEEE 802.11a & n HT20: 5745-5825MHz	Low	5745	6
		Middle	5785	6
		High	5825	6
	IEEE 802.11n HT40: 5755-5795MHz	Low	5755	13.5
		High	5795	13.5

2.8. Channel List

Band	Mode	Channel	Frequency (MHz)	
UNII Band I	IEEE 802.11a & n HT20: 5180-5240MHz	36	5180	
		40	5200	
		44	5220	
		48	5240	
	IEEE 802.11n HT40: 5180-5240MHz	38	5190	
		46	5230	
UNII Band II	IEEE 802.11a & n HT20: 5260-5320MHz	52	5260	
		56	5280	
		60	5300	
		64	5320	
	IEEE 802.11n HT40: 5270-5310MHz	54	5270	
		62	5310	
UNII Band III	IEEE 802.11a & n HT20: 5500-5700MHz	100	5500	
		104	5520	
		108	5540	
		112	5560	
		116	5580	
		132	5660	
		136	5680	
		140	5700	
	IEEE 802.11n HT40: 5510-5670	102	5510	
		110	5550	
		134	5670	
UNII Band IV	IEEE 802.11a & n HT20: 5745-5825MHz	149	5745	
		153	5765	
		157	5785	
		161	5805	
		165	5825	
	IEEE 802.11n HT40: 5755-5795MHz	151	5755	
		159	5795	

2.9. Test Equipment For EST Technology Co., Ltd.

2.9.1. For conducted emission test

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

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

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

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

Equipment	Manufacturer	Model No.	Serial No.	Calibration Body	Last Cal.	Next Cal.
EMI Test Receiver	Rohde & Schwarz	ESR7	101780	CEPREI	June 15,18	1 Year
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

2.9.4. For radiated emission test(above 1GHz)

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

2.9.5. For DFS and connect EUT antenna terminal test

Equipment	Manufacturer	Model No.	Serial No.	Calibration Body	Last Cal.	Next Cal.
TS 8997	Rohde & Schwarz	/	/	/	/	/
Open Switch and Control Unit	Rohde & Schwarz	OSP-B157WB	101309	CEPREI	June 15,18	1 Year
Signal and Spectrum Analyzer	Rohde & Schwarz	FSV	103173	CEPREI	June 15,18	1 Year
Signal Generator	Rohde & Schwarz	SMB100A	108752	CEPREI	June 15,18	1 Year
Vector Signal Generator	Rohde & Schwarz	SMBV100A	260753	CEPREI	June 15,18	1 Year
Test Software	Rohde & Schwarz	WMS32	V10.40.00	N/A	N/A	N/A
Spectrum Analyzer	Agilent	E4408B	MY44211139	CEPREI	June 15,18	1 Year
Temperature controller	DK	DK70A	006562	Tiansu	June 03,18	1 Year
AC Source	CHANGJIAN	3KV	EST215-007	N/A	N/A	N/A

3. 26 DB BANDWIDTH

3.1. Limit

No Limit.

3.2. Test Procedure

- a, 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.
- b, Place the EUT on the table and set it in the transmitting mode.
- c, Set the spectrum analyzer as $RBW > 1\%EBW$.
- d, Set the $VBW > RBW$.
- e, Set the Span $> 26dB$ bandwidth.
- f, Set the Trace mode = Max hold.
- g, Set the Detector = Peak.
- h, Set the Sweep = auto.
- i, Mark the peak frequency and $-26dB$ (upper and lower) frequency.
- j, Repeat until all the rest channels were investigated.

3.3. Test Information

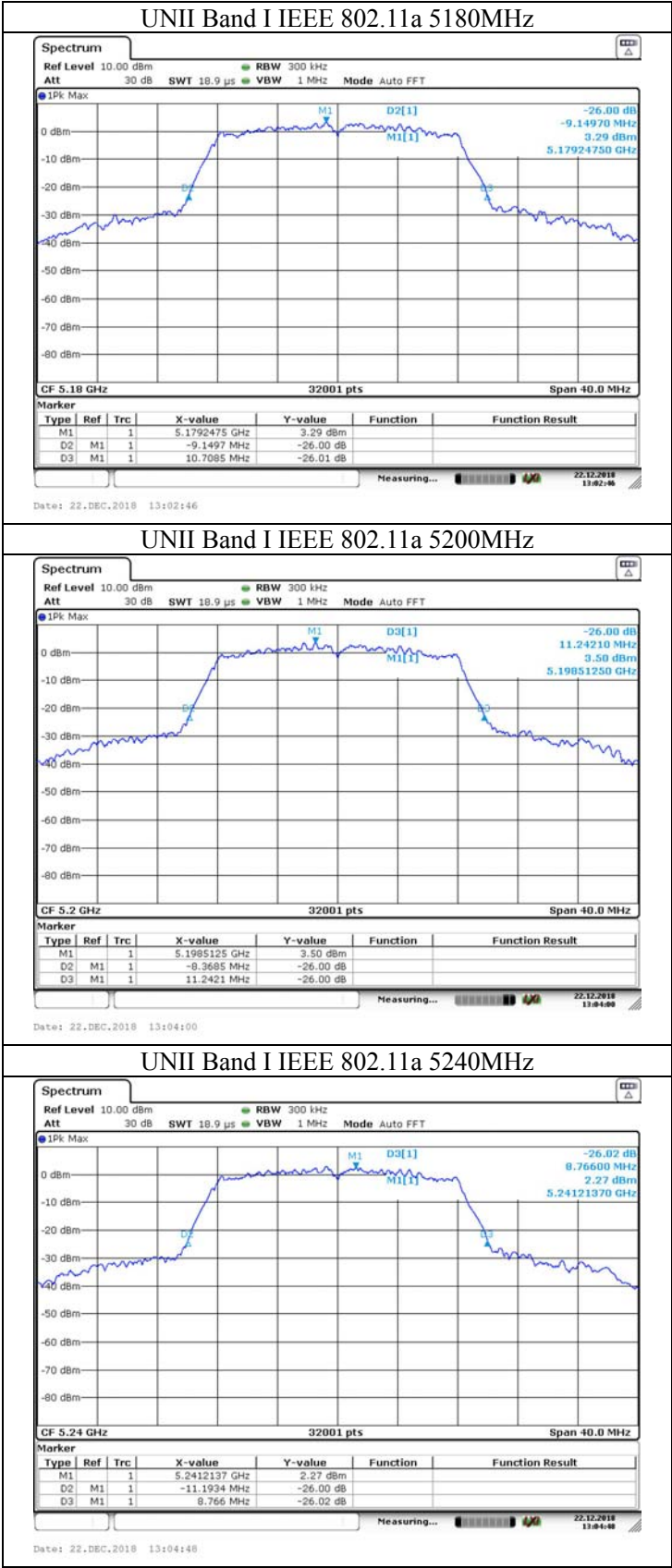
EUT: 8" Android Tablet		
M/N: ONA19TB002		
Test date: 2018-12-28	Test site: RF sit	Tested by: Seven

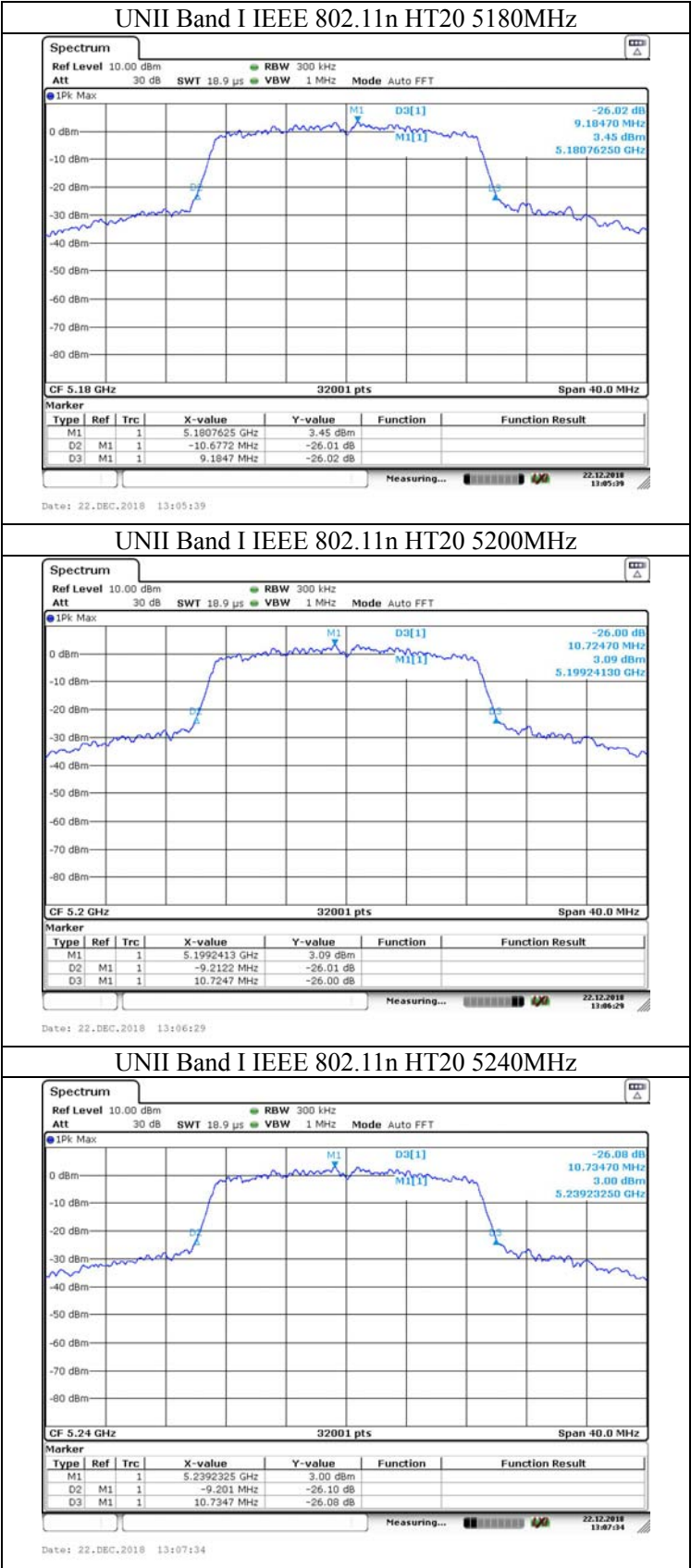
3.4. Test Result

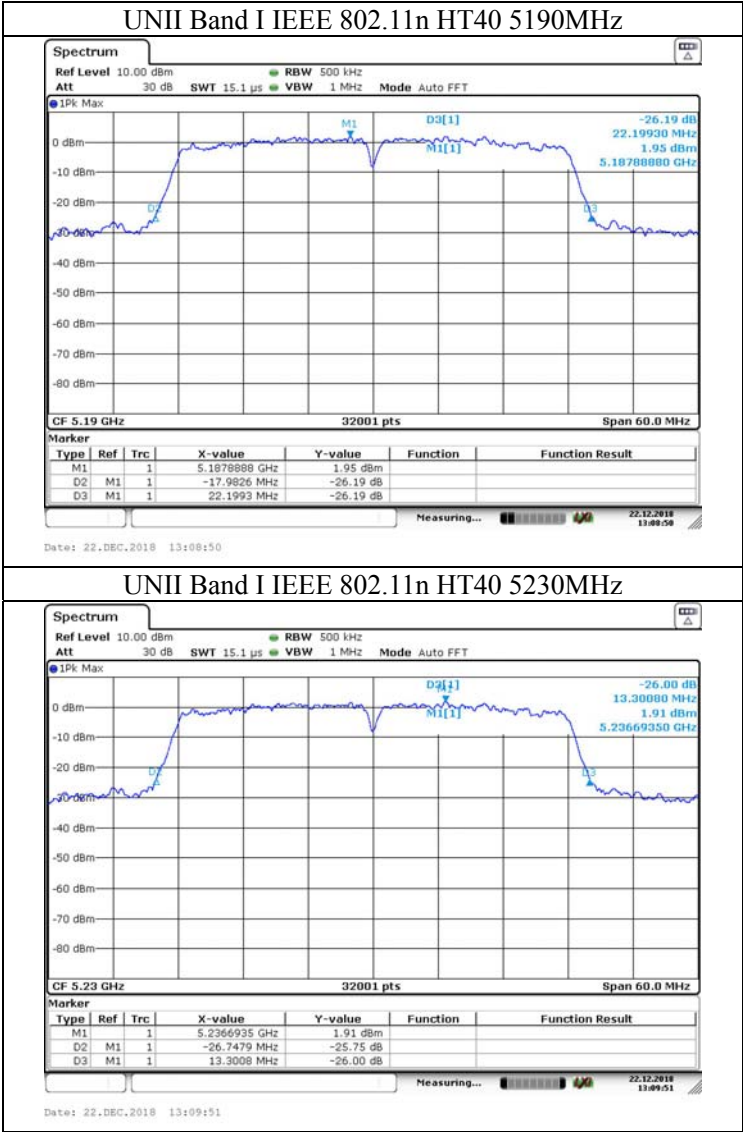
Band	Mode	Channel	Frequency (MHz)	26 dB Bandwidth (MHz)
UNII Band I	IEEE 802.11a	Low	5180	19.858
		Middle	5200	19.611
		High	5240	19.959
	IEEE 802.11n HT20	Low	5180	19.862
		Middle	5200	19.937
		High	5240	19.936
	IEEE 802.11n HT40	Low	5190	40.182
		High	5230	40.049
Conclusion: Pass				
UNII Band II	IEEE 802.11a	Low	5260	19.869
		Middle	5300	19.981
		High	5320	19.727
	IEEE 802.11n HT20	Low	5260	19.899
		Middle	5300	19.881
		High	5320	19.876
	IEEE 802.11n HT40	Low	5270	40.263
		High	5310	40.017
Conclusion: Pass				

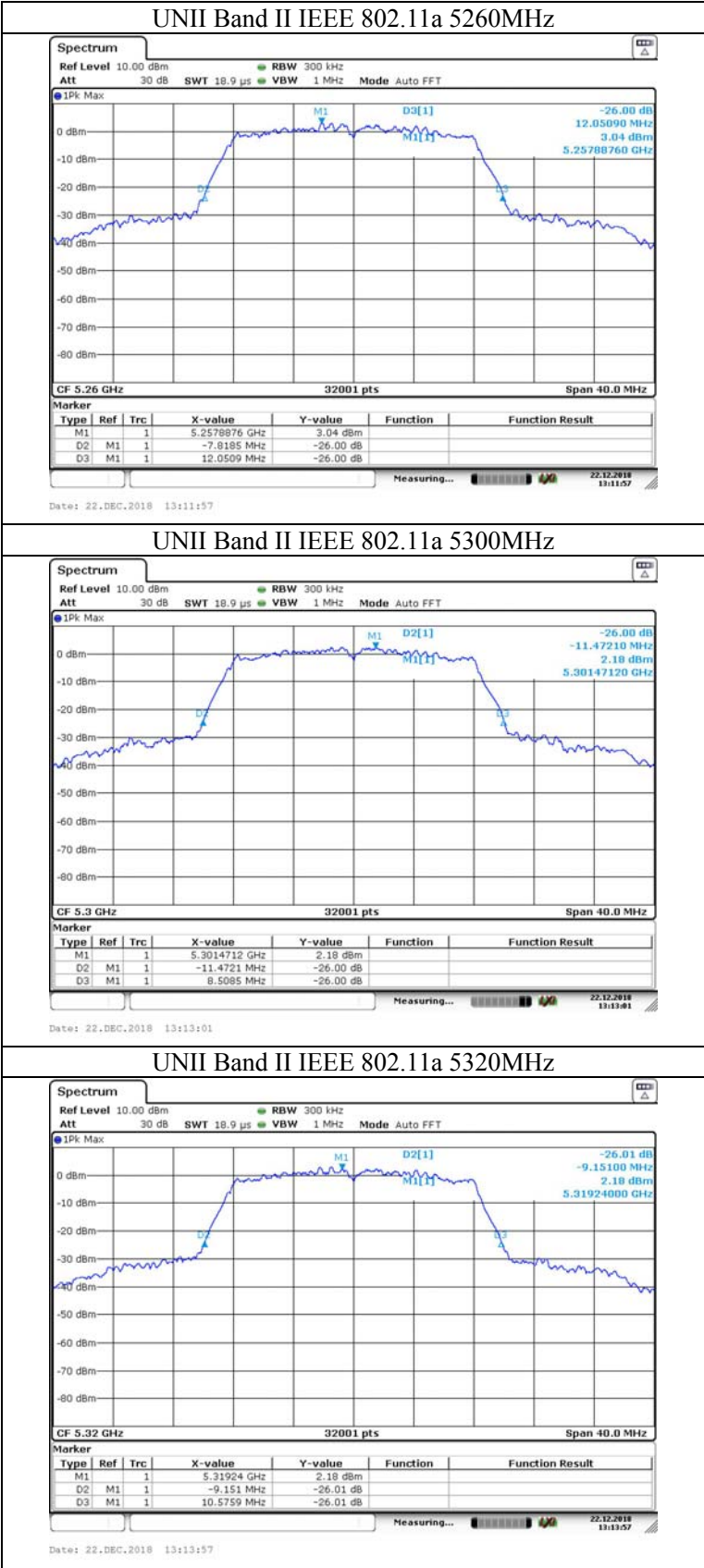
Band	Mode	Channel	Frequency (MHz)	26 dB Bandwidth (MHz)
UNII Band III	IEEE 802.11a	Low	5500	19.723
		Middle	5580	20.011
		High	5700	19.989
	IEEE 802.11n HT20	Low	5500	19.681
		Middle	5580	19.726
		High	5700	19.677
	IEEE 802.11n HT40	Low	5510	40.191
		High	5670	40.761
Conclusion: Pass				
UNII Band IV	IEEE 802.11a	Low	5745	19.948
		Middle	5785	19.899
		High	5825	19.941
	IEEE 802.11n HT20	Low	5745	19.928
		Middle	5785	19.943
		High	5825	19.918
	IEEE 802.11n HT40	Low	5755	40.242
		High	5795	40.148
Conclusion: Pass				

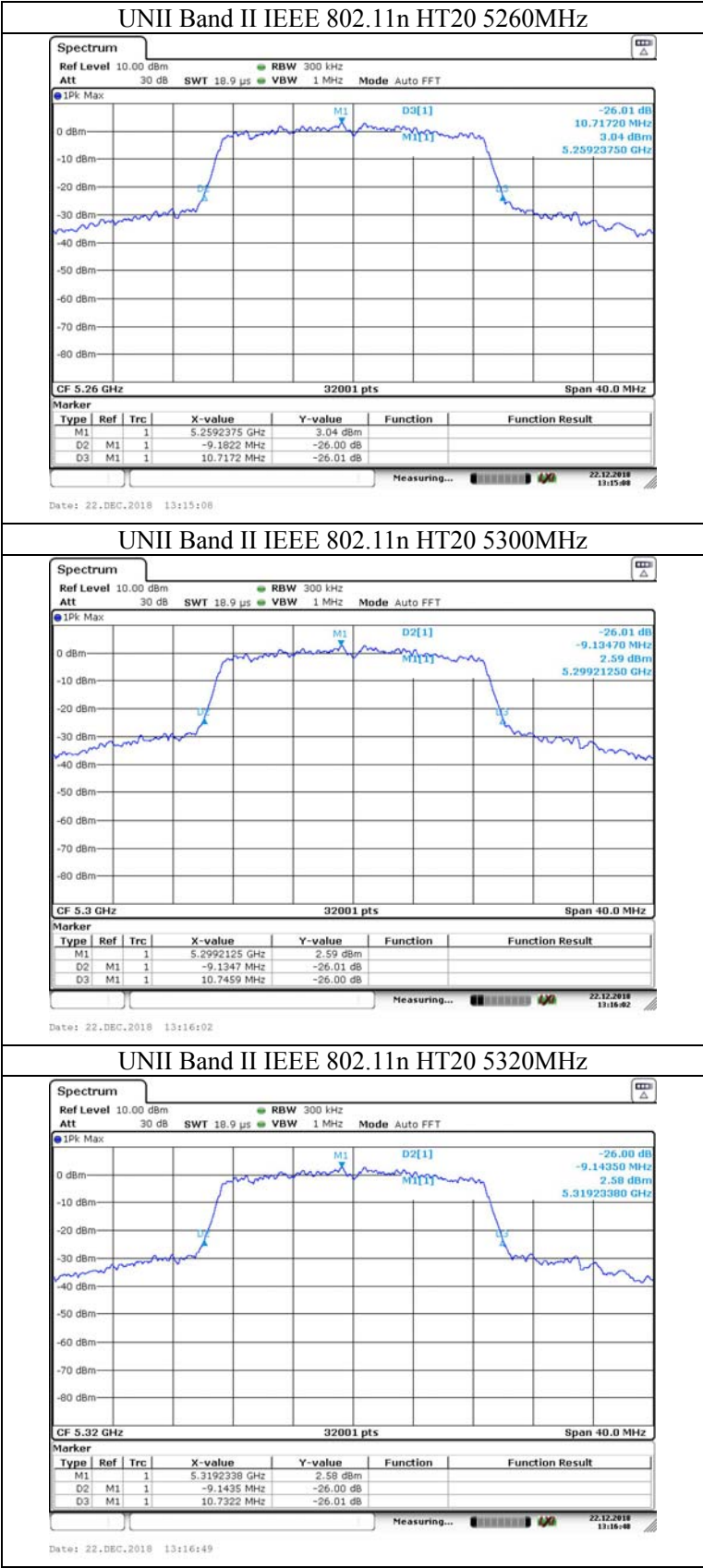
3.5. Test Data

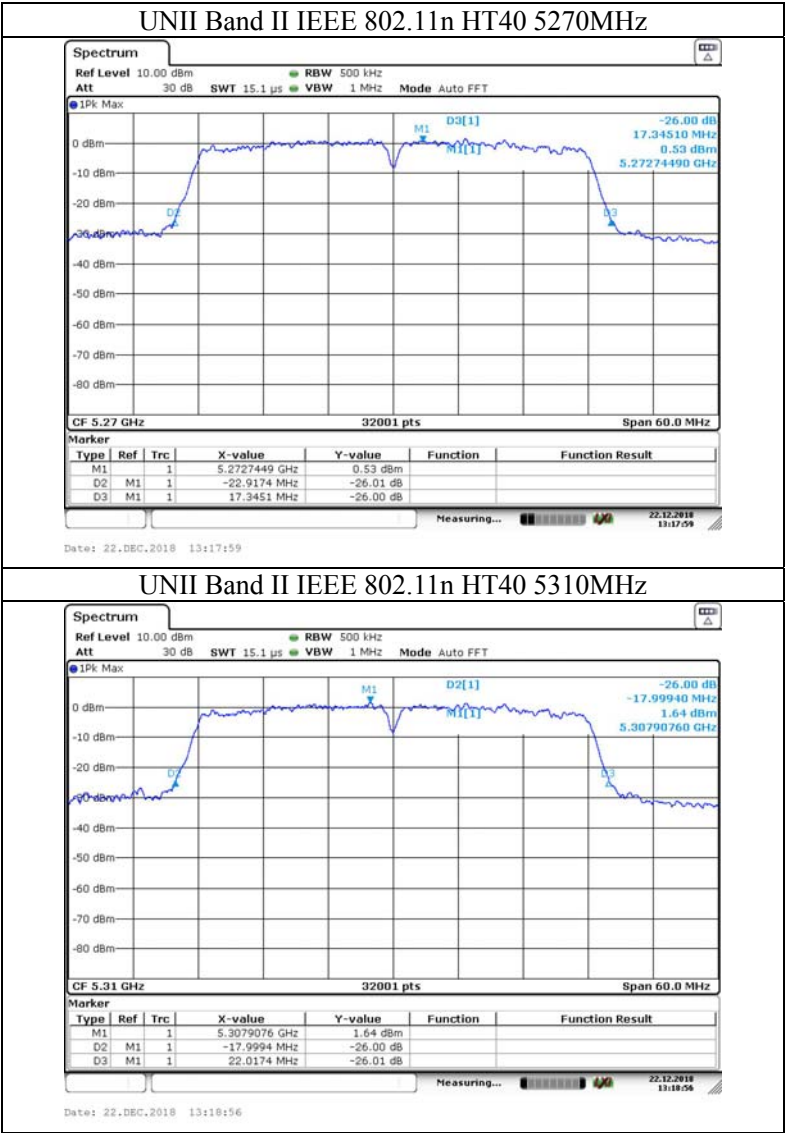


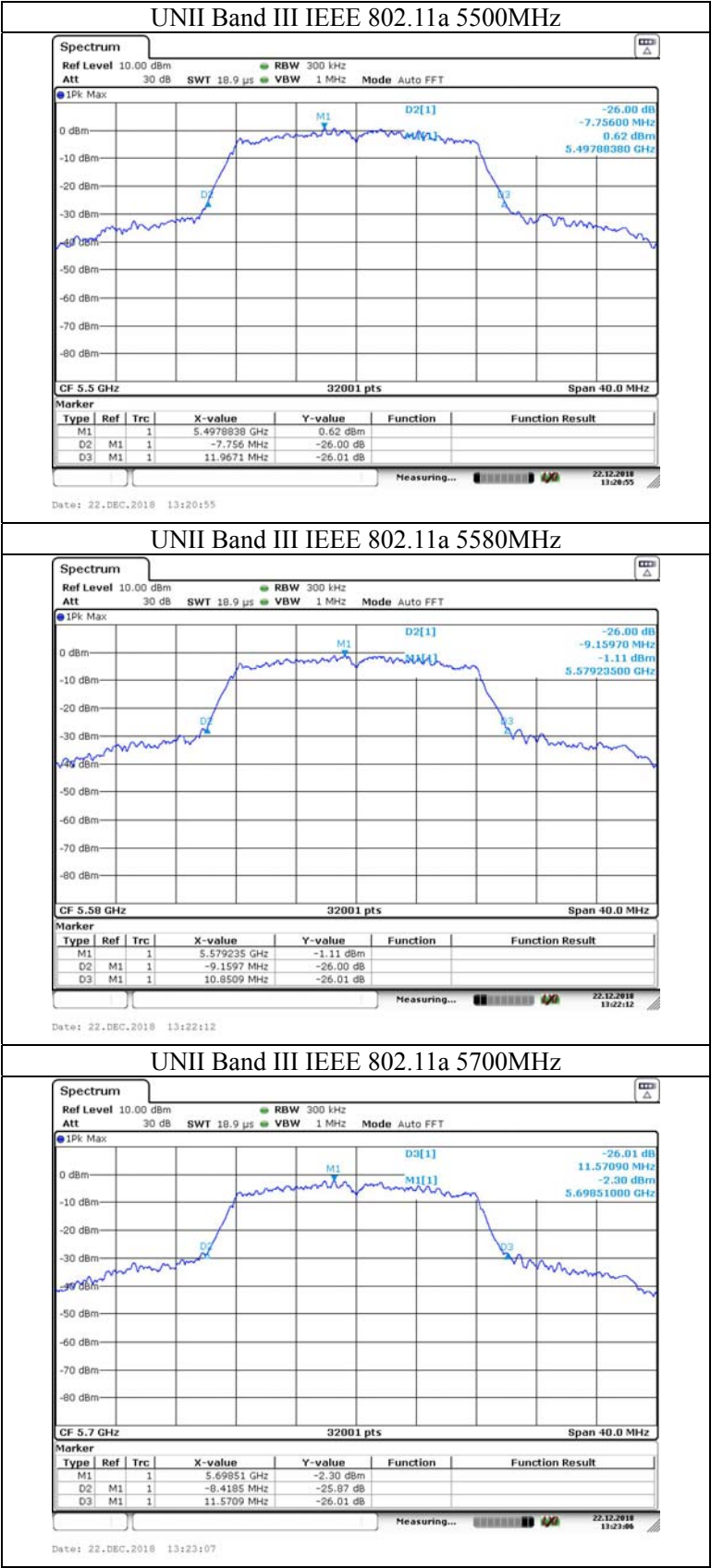


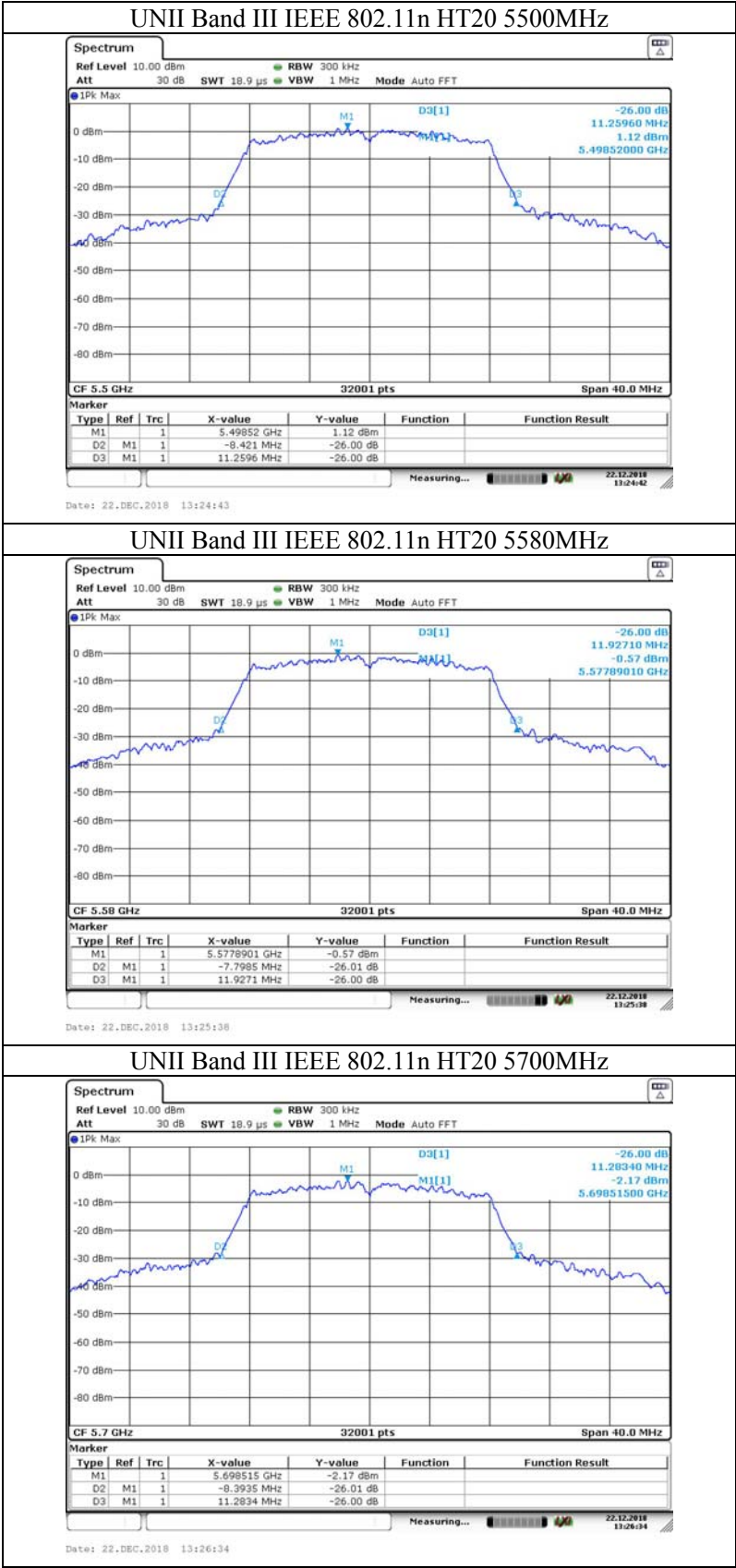


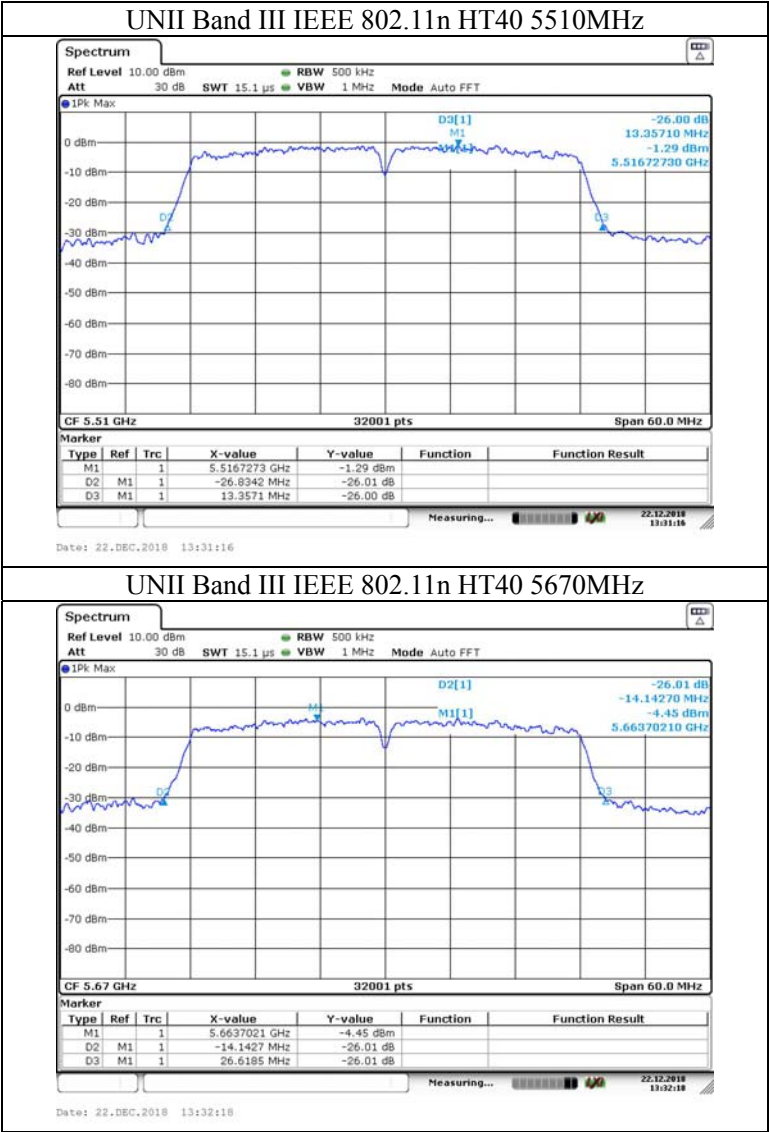


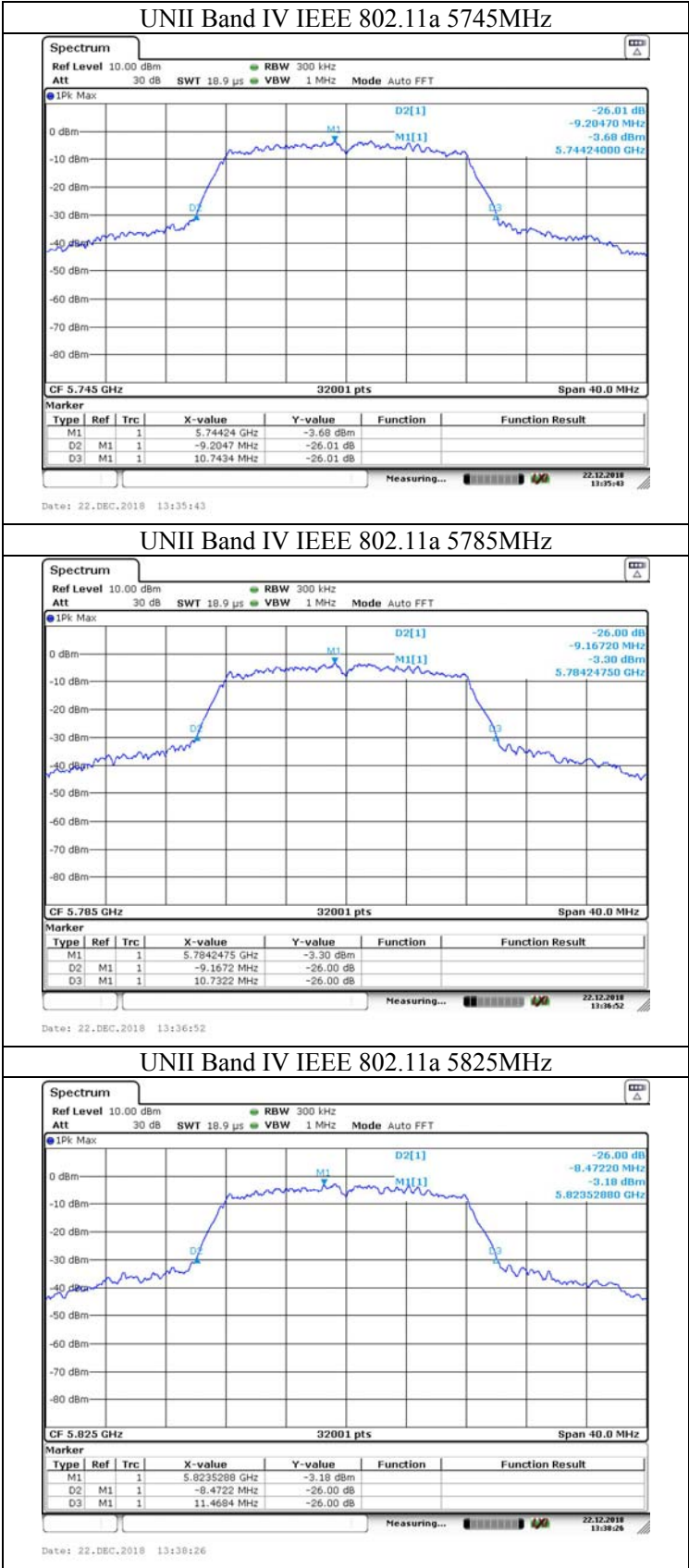


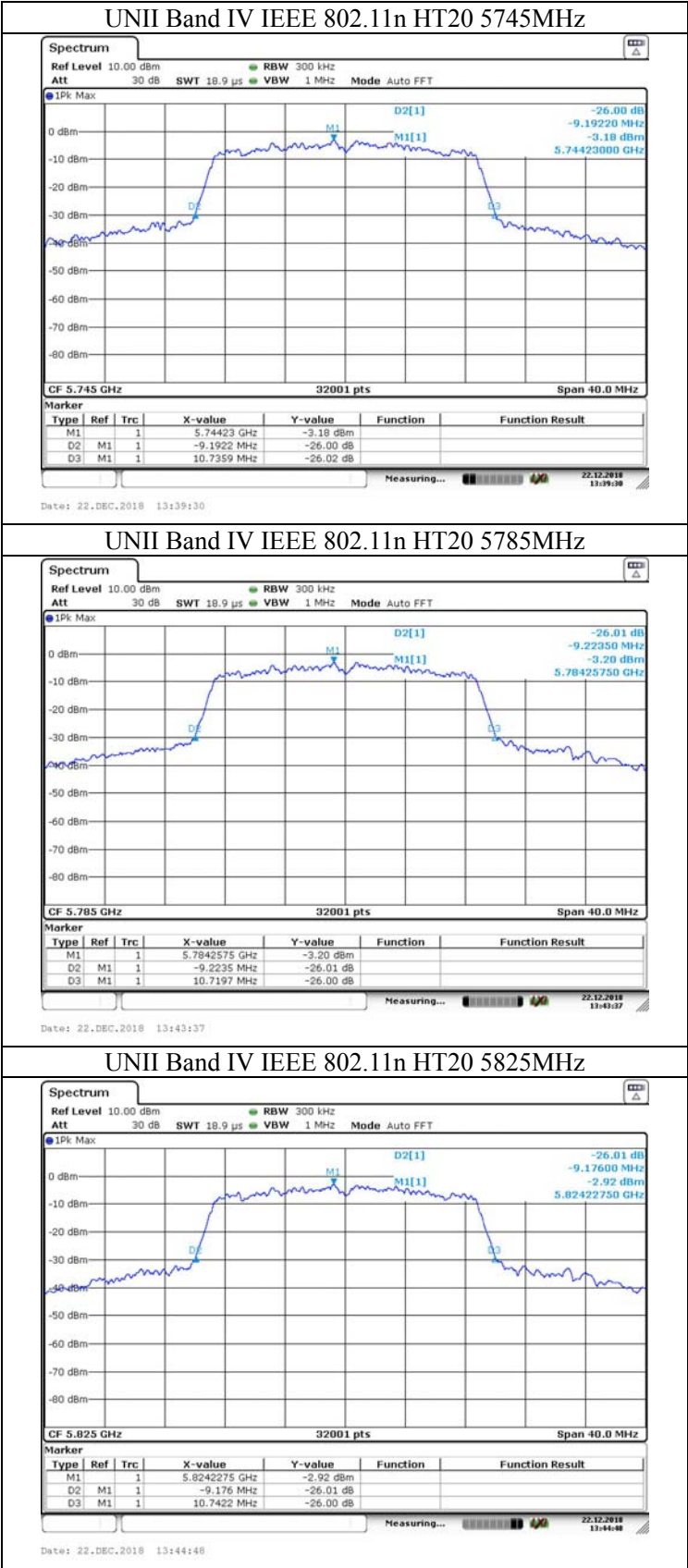


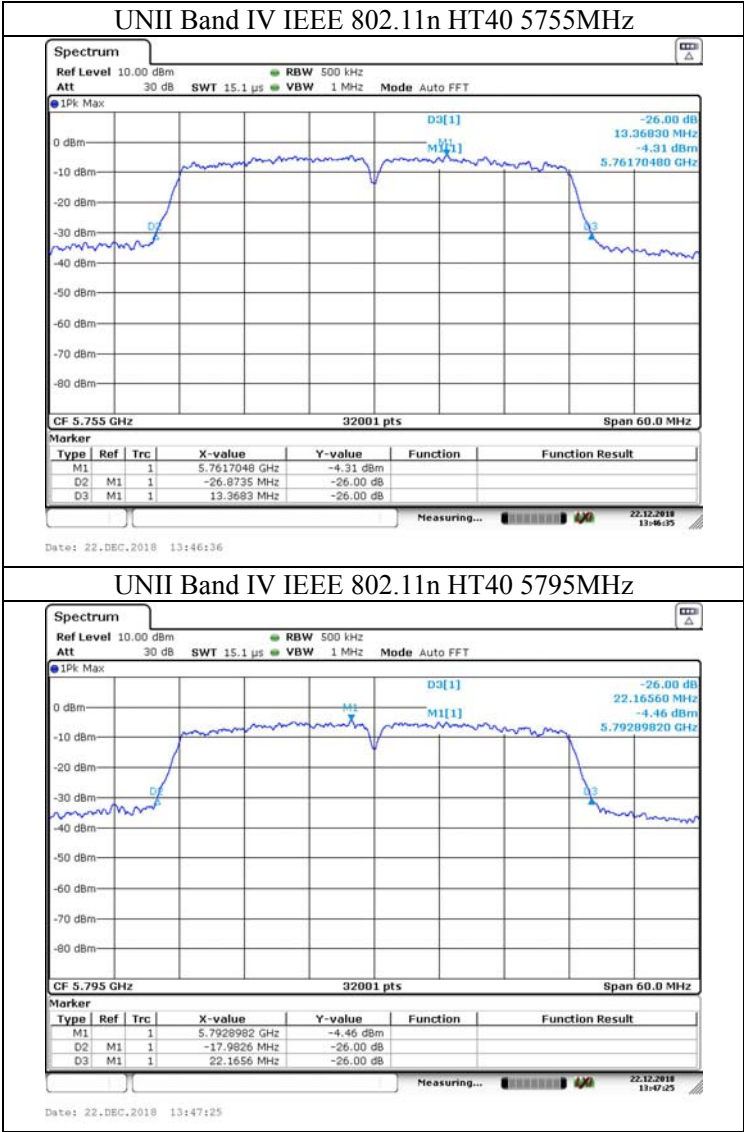












4. 6 DB BANDWIDTH

4.1. Limit

According to §15.407(e), Within the 5.725-5.85 GHz band, the minimum 6 dB bandwidth of U-NII devices shall be at least 500 kHz.

4.2. Test Procedure

- a, 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.
- b, Place the EUT on the table and set it in the transmitting mode.
- c, Set resolution bandwidth (RBW) = 100 kHz
- d, Set the video bandwidth (VBW) $\geq 3 \times$ RBW, Detector = Peak.
- e, Set the Trace mode = Max hold.
- f, Set the Detector = Peak.
- g, Set the Sweep = Auto.
- h, Measure the maximum width of the emission that is constrained by the frequencies associated with the two amplitude points (upper and lower) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

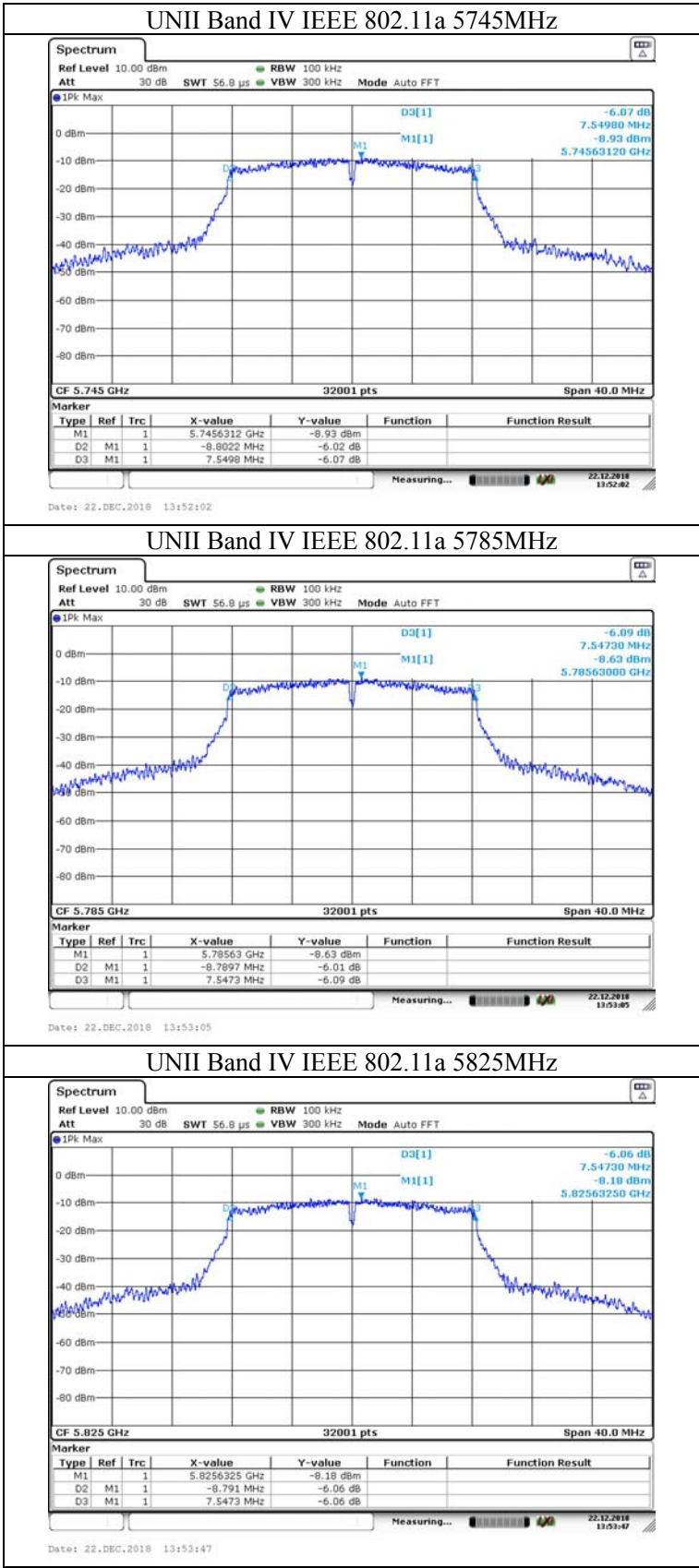
4.3. Test Information

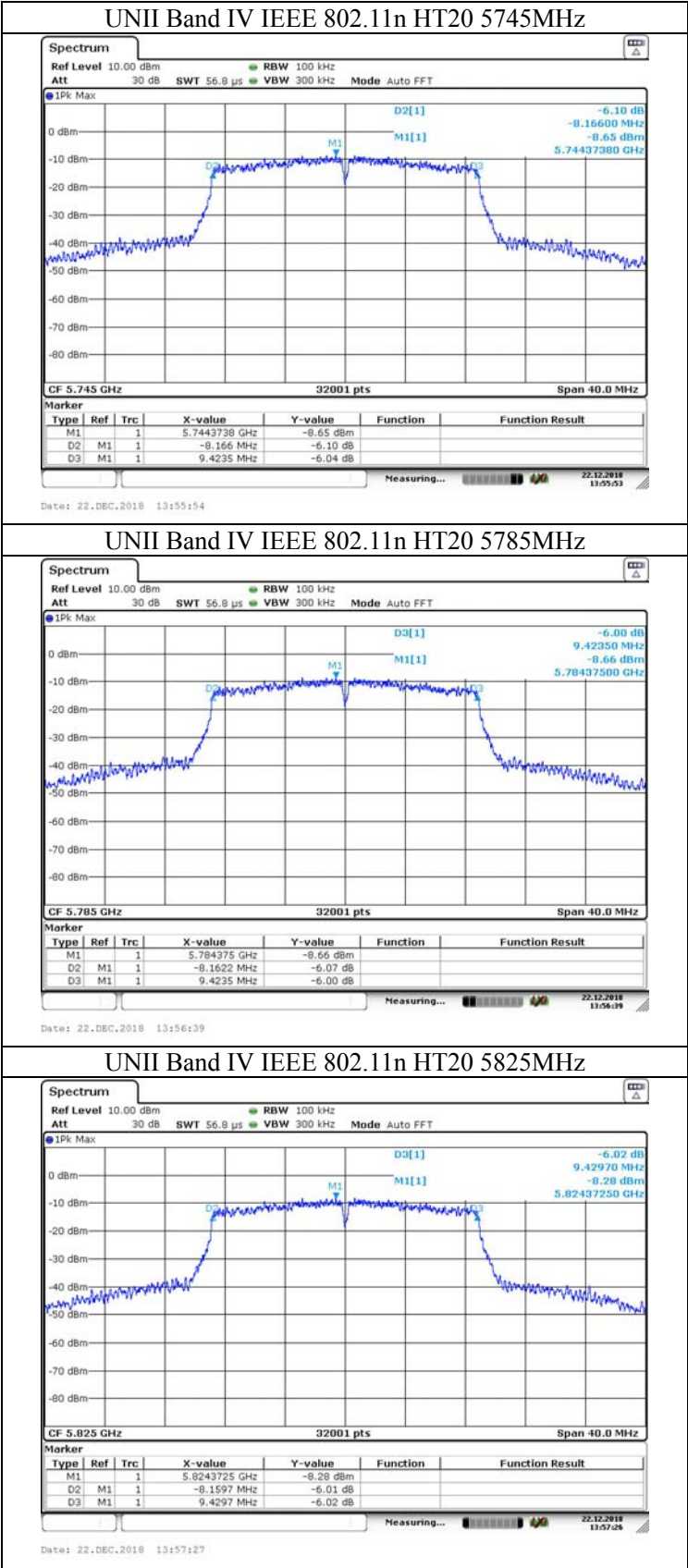
EUT: 8" Android Tablet		
M/N: ONA19TB002		
Test date: 2018-12-28	Test site: RF sit	Tested by: Seven

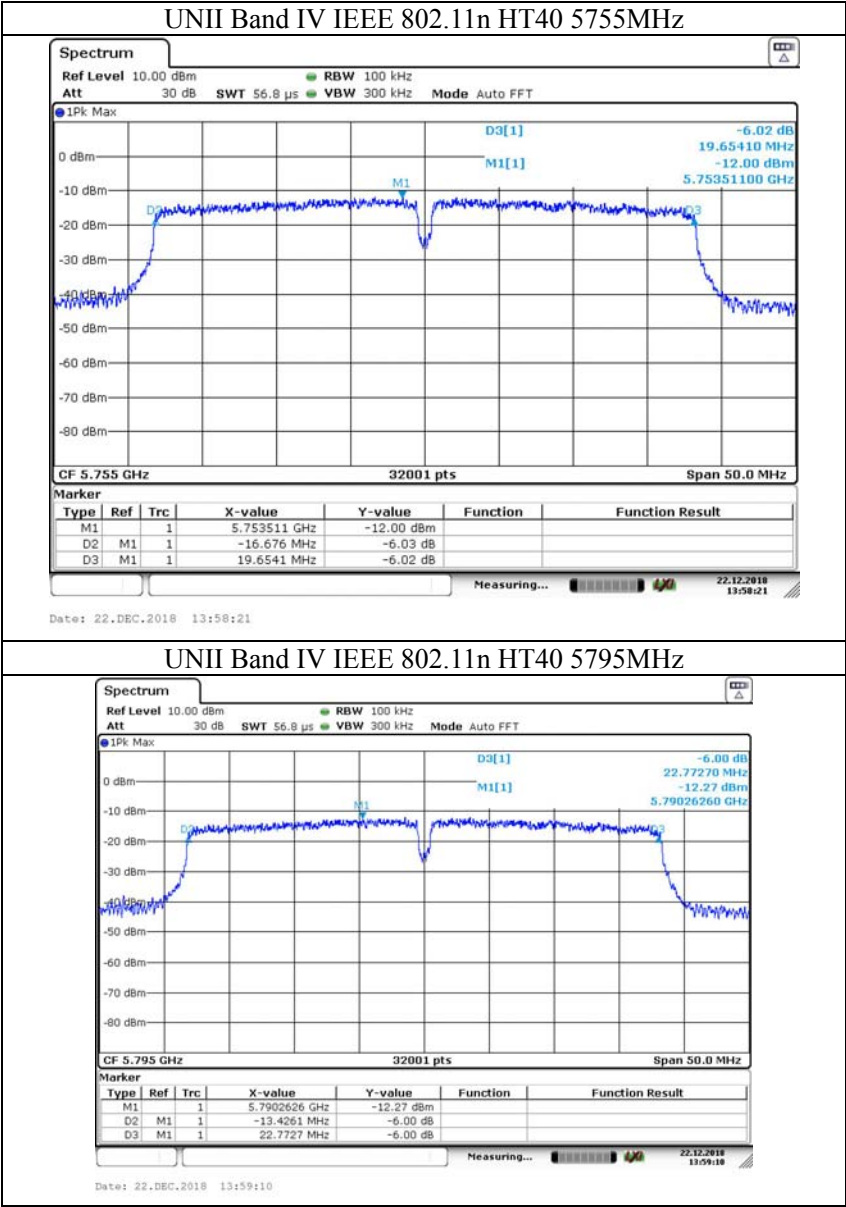
4.4. Test Result

Band	Mode	Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Limit (kHz)
UNII Band IV	IEEE 802.11a	Low	5745	16.352	500
		Middle	5785	16.337	500
		High	5825	16.338	500
	IEEE 802.11n HT20	Low	5745	17.590	500
		Middle	5785	17.586	500
		High	5825	17.589	500
	IEEE 802.11n HT40	Low	5755	36.330	500
		High	5795	36.199	500

4.5. Test Data







5. OUTPUT POWER

5.1. Limit

According to §15.407(a)& FCC R&O FCC 14 - 30,

- (1) For the band 5.15-5.25 GHz.
 - (i) For an outdoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. The maximum e.i.r.p. at any elevation angle above 30 degrees as measured from the horizon must not exceed 125 mW (21 dBm).
 - (ii) For an indoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.
 - (iii) For fixed point-to-point access points operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. Fixed point-to-point U-NII devices may employ antennas with directional gain up to 23 dBi without any corresponding reduction in the maximum conducted output power or maximum power spectral density. For fixed point-to-point transmitters that employ a directional antenna gain greater than 23 dBi, a 1 dB reduction in maximum conducted output power and maximum power spectral density is required for each 1 dB of antenna gain in excess of 23 dBi. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.
 - (iv) For mobile and portable client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.
- (2) For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or $11 \text{ dBm} + 10 \log B$, where B is the 26 dB emission bandwidth in megahertz. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.
- (3) For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral

density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. However, fixed point-to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple colocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.

Note to paragraph (a)(3): The Commission strongly recommends that parties employing U-NII devices to provide critical communications services should determine if there are any nearby Government radar systems that could affect their operation.

Specified Limit of the Output Power

Band	Mode	Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	11 + 10*Log(B) (dBm)	Maximum Conducted Output Power Limit(dBm)
UNII Band I	IEEE 802.11a	Low	5180	19.858	23.98	23.98
		Middle	5200	19.611	23.92	23.92
		High	5240	19.959	24.00	24.00
	IEEE 802.11n HT20	Low	5180	19.862	23.98	23.98
		Middle	5200	19.937	24.00	24.00
		High	5240	19.936	24.00	24.00
	IEEE 802.11n HT40	Low	5190	40.182	27.04	24.00
		High	5230	40.049	27.03	24.00
UNII Band II	IEEE 802.11a	Low	5260	19.869	23.98	23.98
		Middle	5300	19.981	24.01	24.00
		High	5320	19.727	23.95	23.95
	IEEE 802.11n HT20	Low	5260	19.899	23.99	23.99
		Middle	5300	19.881	23.98	23.98
		High	5320	19.876	23.98	23.98
	IEEE 802.11n HT40	Low	5270	40.263	27.05	24.00
		High	5310	40.017	27.02	24.00
UNII Band III	IEEE 802.11a	Low	5500	19.723	23.95	23.95
		Middle	5580	20.011	24.01	24.00
		High	5700	19.989	24.01	24.00
	IEEE 802.11n HT20	Low	5500	19.681	23.94	23.94
		Middle	5580	19.726	23.95	23.95
		High	5700	19.677	23.94	23.94
	IEEE 802.11n HT40	Low	5510	40.191	27.04	24.00
		High	5670	40.761	27.10	24.00

5.2. Test Procedure

The transmitter output (antenna port) was connected to the OSP-B157WB. Connect EUT antenna terminal to the spectrum analyzer with a low loss SMA cable.

5.3. Test Information

EUT: 8" Android Tablet		
M/N: ONA19TB002		
Test date: 2018-12-29	Test site: RF sit	Tested by: Seven

5.4. Test Result

Band	Mode	Channel	Frequency (MHz)	Output Power		Maximum Conducted Output Power Limit(dBm)
				mW	dBm	
UNII Band I	IEEE 802.11a	Low	5180	21.75	13.375	23.98
		Middle	5200	24.72	13.931	23.92
		High	5240	21.46	13.316	24.00
	IEEE 802.11n HT20	Low	5180	21.08	13.239	23.98
		Middle	5200	24.64	13.916	24.00
		High	5240	23.71	13.749	24.00
	IEEE 802.11n HT40	Low	5190	23.49	13.709	24.00
		High	5230	25.47	14.060	24.00
Conclusion: Pass						
UNII Band II	IEEE 802.11a	Low	5260	21.42	13.308	23.98
		Middle	5300	22.08	13.440	24.00
		High	5320	22.34	13.490	23.95
	IEEE 802.11n HT20	Low	5260	19.67	12.937	23.99
		Middle	5300	21.86	13.397	23.98
		High	5320	23.29	13.672	23.98
	IEEE 802.11n HT40	Low	5270	21.10	13.243	24.00
		High	5310	22.59	13.539	24.00
Conclusion: Pass						

Band	Mode	Channel	Frequency (MHz)	Output Power		Maximum Conducted Output Power Limit(dBm)
				mW	dBm	
UNII Band III	IEEE 802.11a	Low	5500	13.10	11.173	23.95
		Middle	5580	11.43	10.582	24.00
		High	5700	13.69	11.363	24.00
	IEEE 802.11n HT20	Low	5500	14.26	11.541	23.94
		Middle	5580	11.80	10.719	23.95
		High	5700	14.80	11.703	23.94
	IEEE 802.11n HT40	Low	5510	15.76	11.976	24.00
		High	5670	14.89	11.729	24.00
Conclusion: Pass						
UNII Band IV	IEEE 802.11a	Low	5745	20.63	13.146	30.00
		Middle	5785	18.30	12.624	30.00
		High	5825	19.92	12.993	30.00
	IEEE 802.11n HT20	Low	5745	20.20	13.053	30.00
		Middle	5785	16.71	12.229	30.00
		High	5825	21.70	13.365	30.00
	IEEE 802.11n HT40	Low	5755	18.75	12.731	30.00
		High	5795	16.49	12.171	30.00
Conclusion: Pass						

6. PEAK POWER SPECTRAL DENSITY

6.1. Limit

According to §15.407(a) & FCC R&O FCC 14-30

(1) For the band 5.15-5.25 GHz.

(i) For an outdoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. The maximum e.i.r.p. at any elevation angle above 30 degrees as measured from the horizon must not exceed 125 mW (21 dBm).

(ii) For an indoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

(iii) For fixed point-to-point access points operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. Fixed point-to-point U-NII devices may employ antennas with directional gain up to 23 dBi without any corresponding reduction in the maximum conducted output power or maximum power spectral density. For fixed point-to-point transmitters that employ a directional antenna gain greater than 23 dBi, a 1 dB reduction in maximum conducted output power and maximum power spectral density is required for each 1 dB of antenna gain in excess of 23 dBi. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.

(iv) For mobile and portable client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

(2) For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or $11 \text{ dBm} + 10 \log B$, where B is the 26 dB emission bandwidth in megahertz. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

(3) For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. However, fixed point-to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple colocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.

Note to paragraph (a)(3): The Commission strongly recommends that parties employing U-NII devices to provide critical communications services should determine if there are any nearby Government radar systems that could affect their operation.

6.2. Test Procedure

- a, 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.
- b, Place the EUT on the table and set it in the transmitting mode.
- c, For devices operating in the bands 5.15-5.25 GHz, Set the spectrum analyzer as RBW = 1MHz, VBW = 3MHz, Span > 26dB bandwidth, Sweep=1ms
- d, For devices operating in the bands 5.725-5.85 GHz, Set the spectrum analyzer as RBW = 500kHz, VBW = 1.5 MHz, Span > 26dB bandwidth, Sweep=1ms
- e, Record the max. reading.
- f, Repeat the above procedure until the measurements for all frequencies are completed

6.3. Test Information

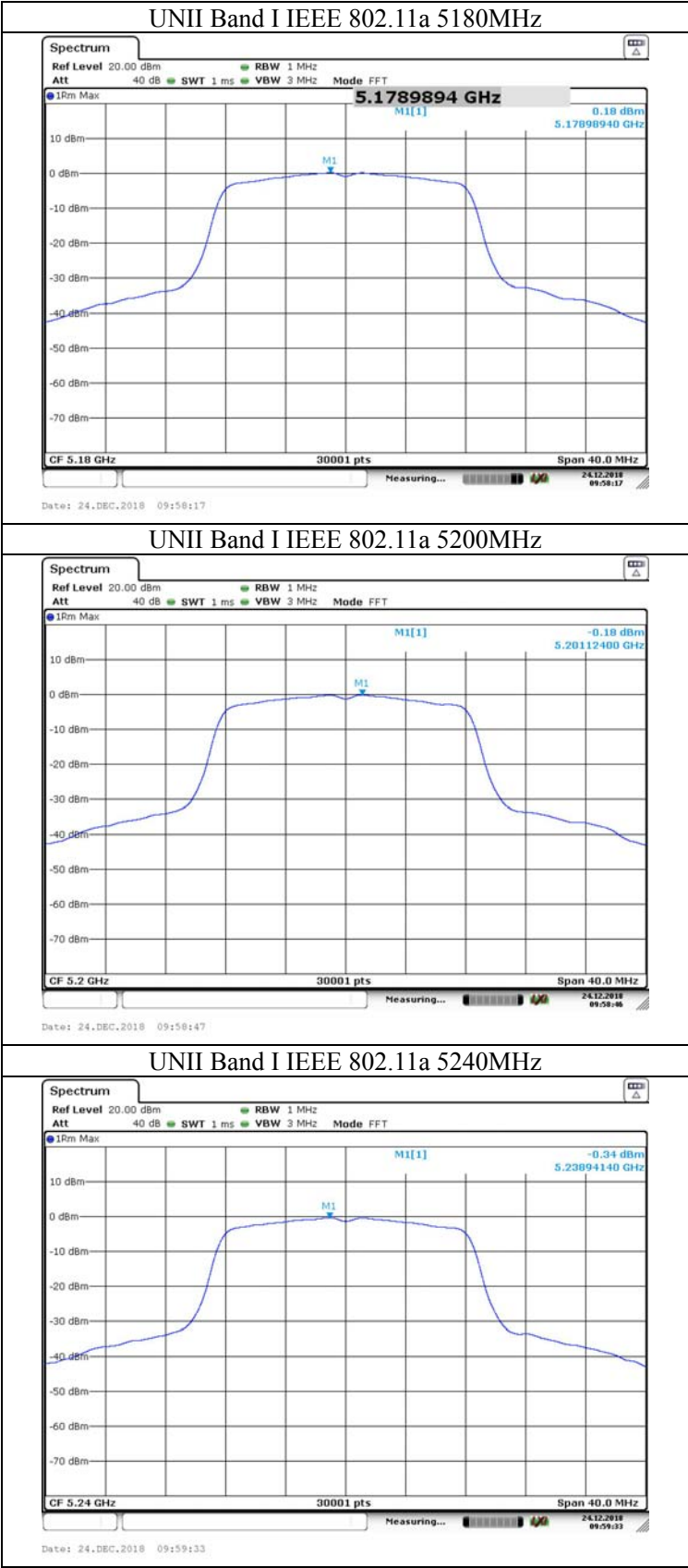
EUT:8" Android Tablet		
M/N: ONA19TB002		
Test date: 2018-12-29	Test site: RF sit	Tested by: Seven

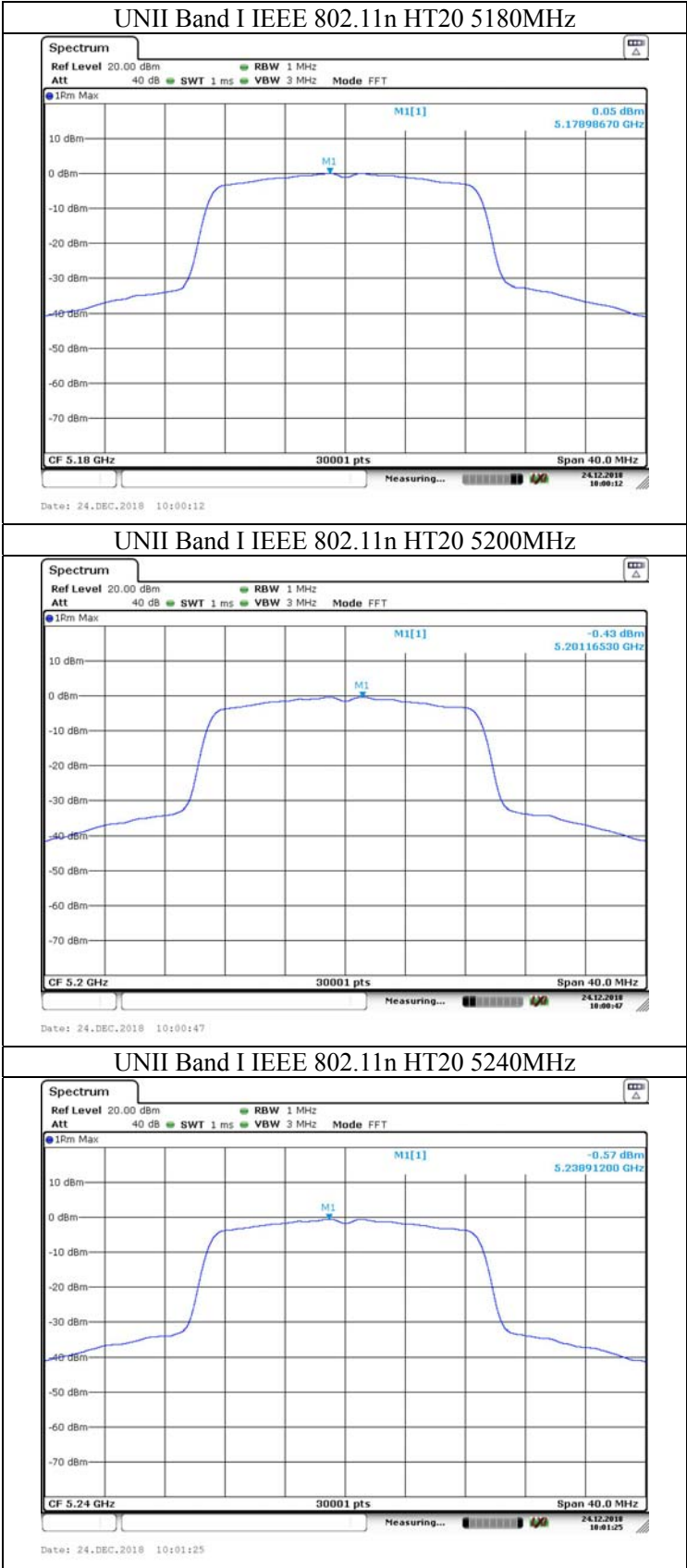
6.4. Test Result

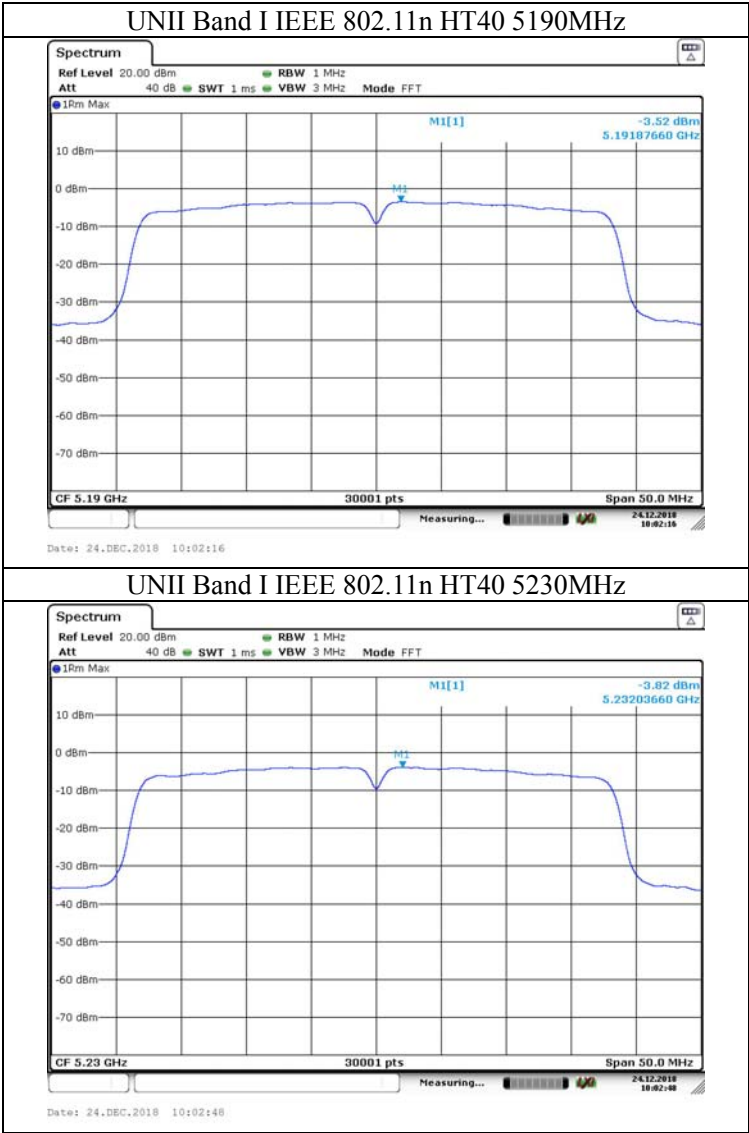
Band	Mode	Channel	Frequency (MHz)	Peak Power Spectral Density (dBm)	Limit
				Ant	
UNII Band I	IEEE 802.11a	Low	5180	0.18	11.00 dBm/MHz
		Middle	5200	-0.18	
		High	5240	-0.34	
	IEEE 802.11n HT20	Low	5180	0.05	
		Middle	5200	-0.43	
		High	5240	-0.57	
	IEEE 802.11n HT40	Low	5190	-3.52	
		High	5230	-3.82	
Conclusion: Pass					
UNII Band II	IEEE 802.11a	Low	5260	-0.82	11.00 dBm/MHz
		Middle	5300	-1.20	
		High	5320	-1.43	
	IEEE 802.11n HT20	Low	5260	-1.02	
		Middle	5300	-1.44	
		High	5320	-1.69	
	IEEE 802.11n HT40	Low	5270	-4.29	
		High	5310	-4.84	
Conclusion: Pass					

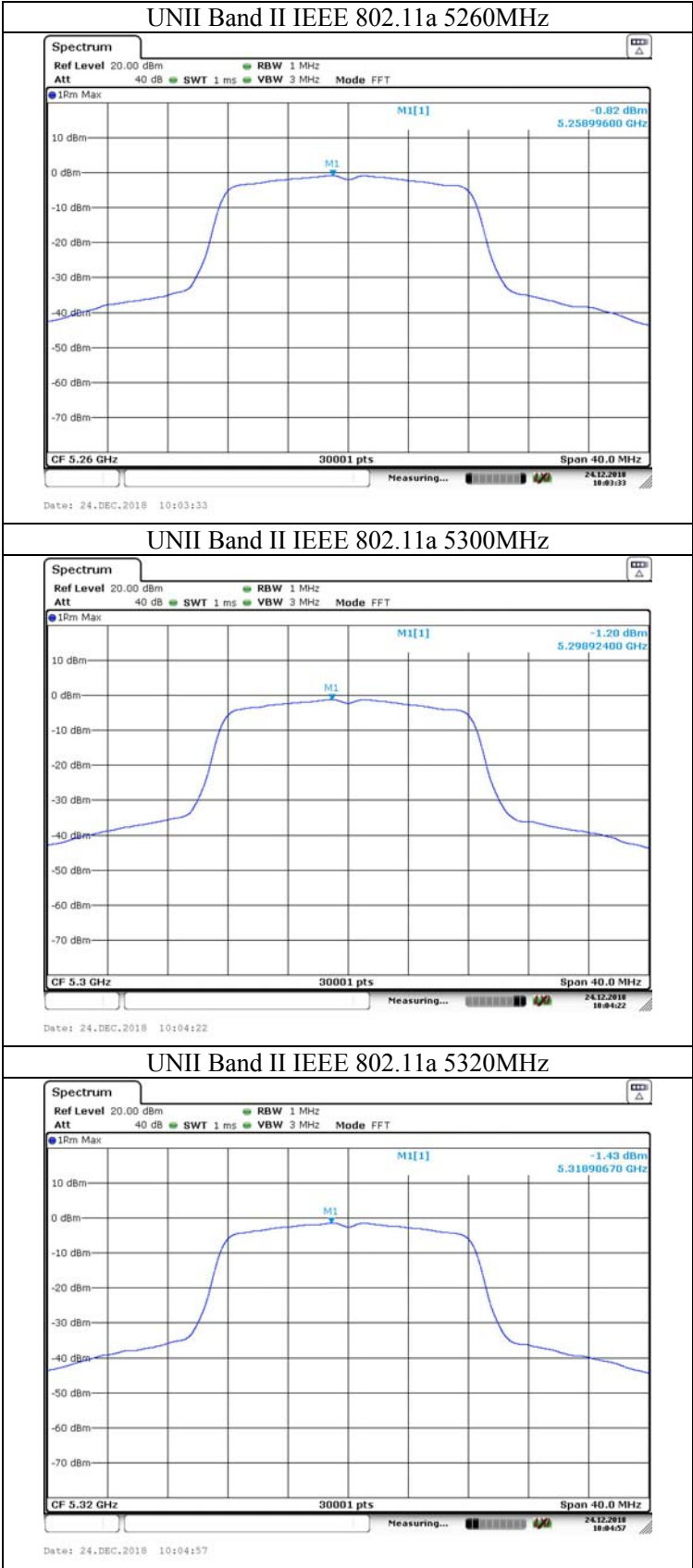
Band	Mode	Channel	Frequency (MHz)	Peak Power Spectral Density (dBm)	Limit
				Ant	
UNII Band III	IEEE 802.11a	Low	5500	-4.82	11.00 dBm/MHz
		Middle	5580	-5.88	
		High	5700	-4.29	
	IEEE 802.11n HT20	Low	5500	-5.27	
		Middle	5580	-6.11	
		High	5700	-4.55	
	IEEE 802.11n HT40	Low	5510	-8.74	
		High	5670	-8.34	
Conclusion: Pass					
UNII Band IV	IEEE 802.11a	Low	5745	2.07	30.00 dBm/500kHz
		Middle	5785	1.56	
		High	5825	0.98	
	IEEE 802.11n HT20	Low	5745	1.67	
		Middle	5785	1.30	
		High	5825	0.85	
	IEEE 802.11n HT40	Low	5755	-1.72	
		High	5795	-2.09	
Conclusion: Pass					

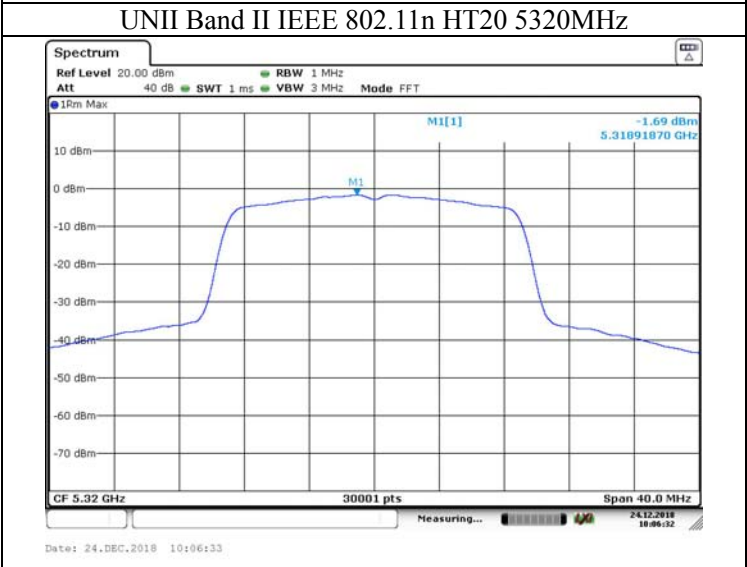
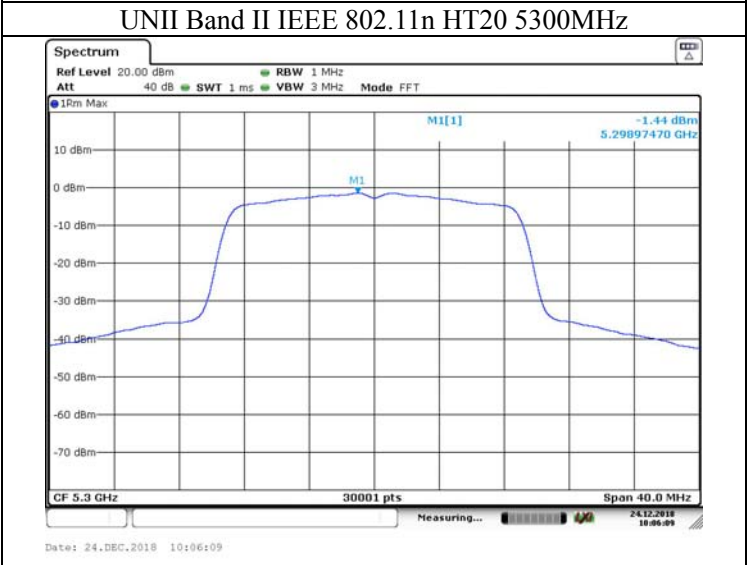
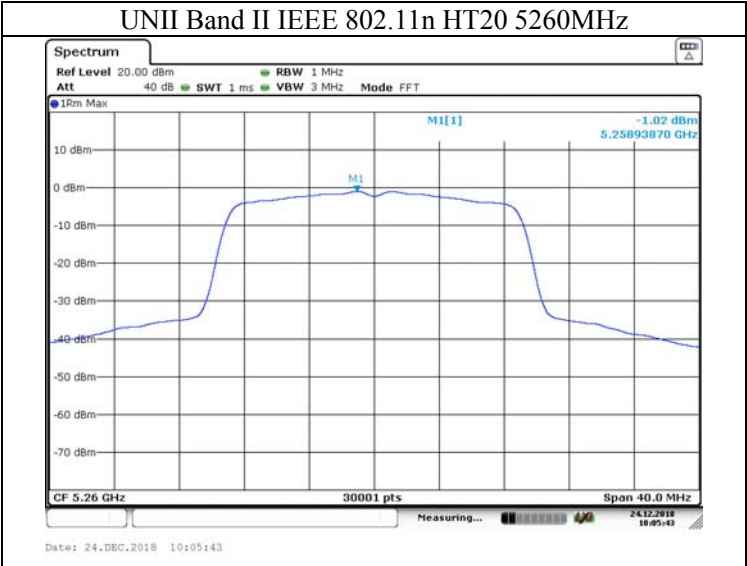
6.5. Test Data

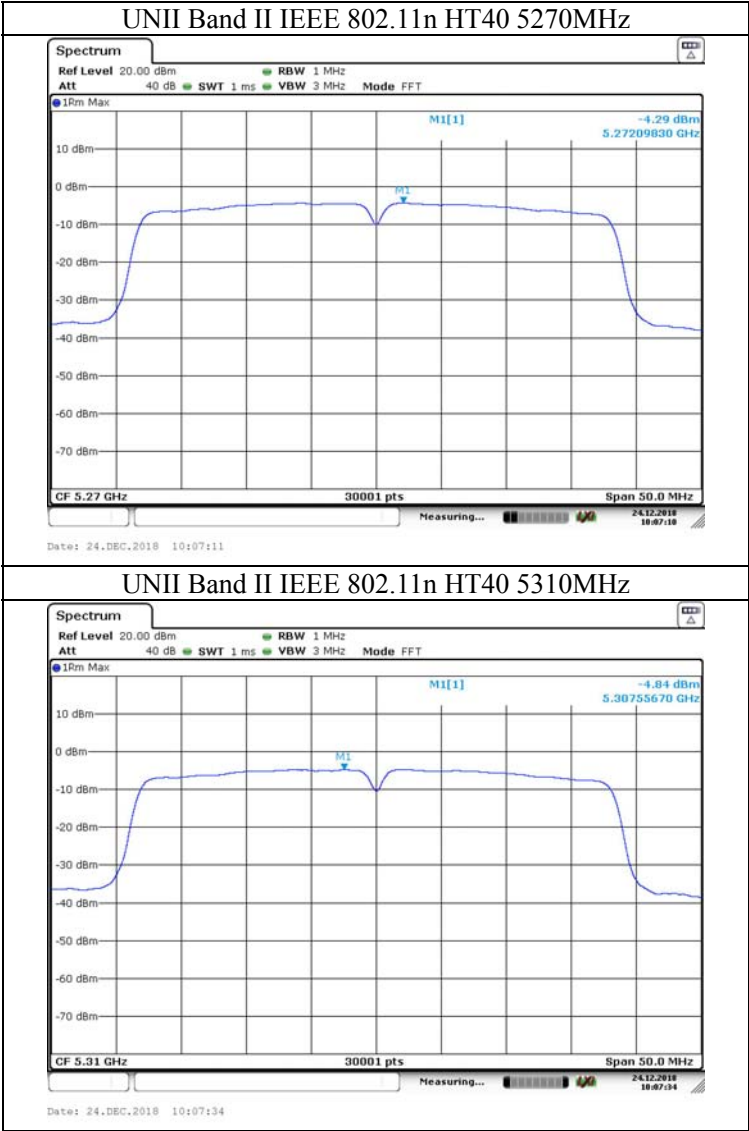


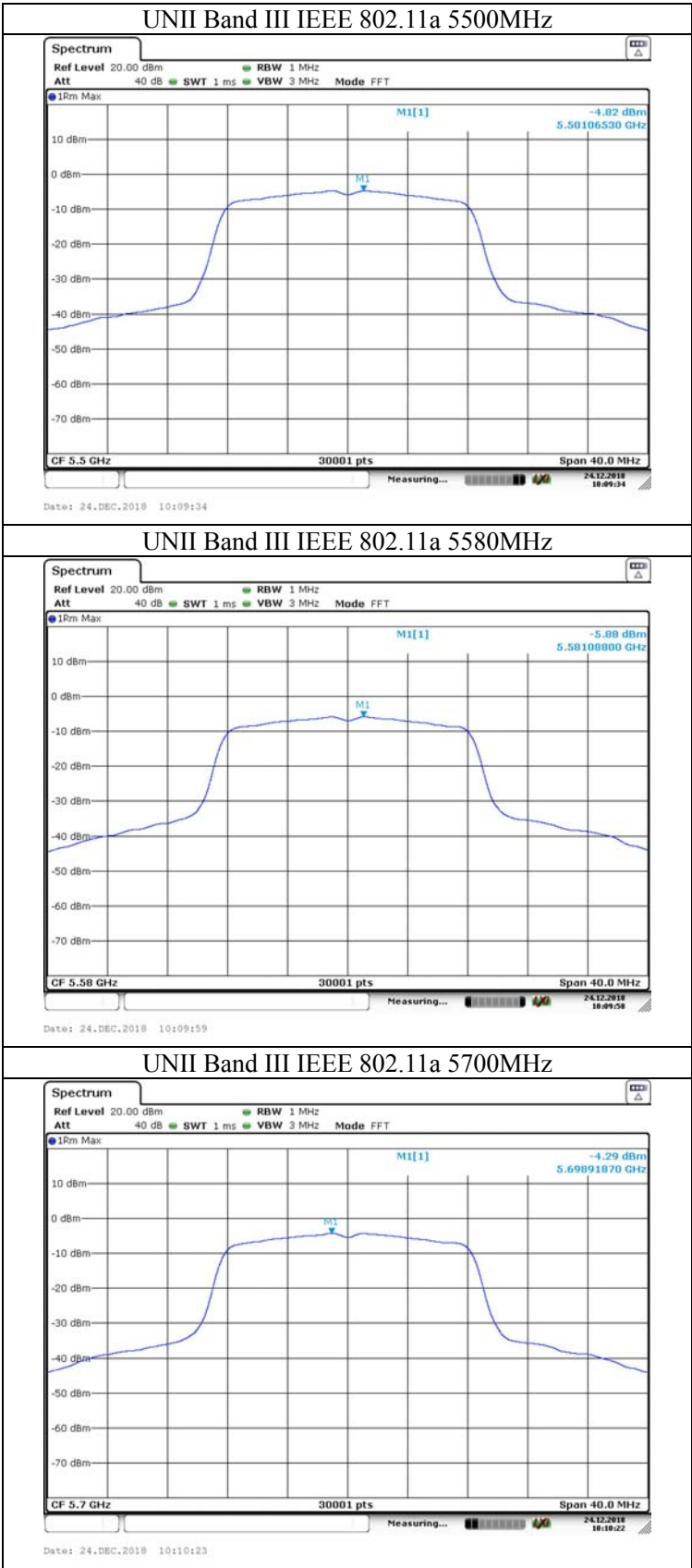


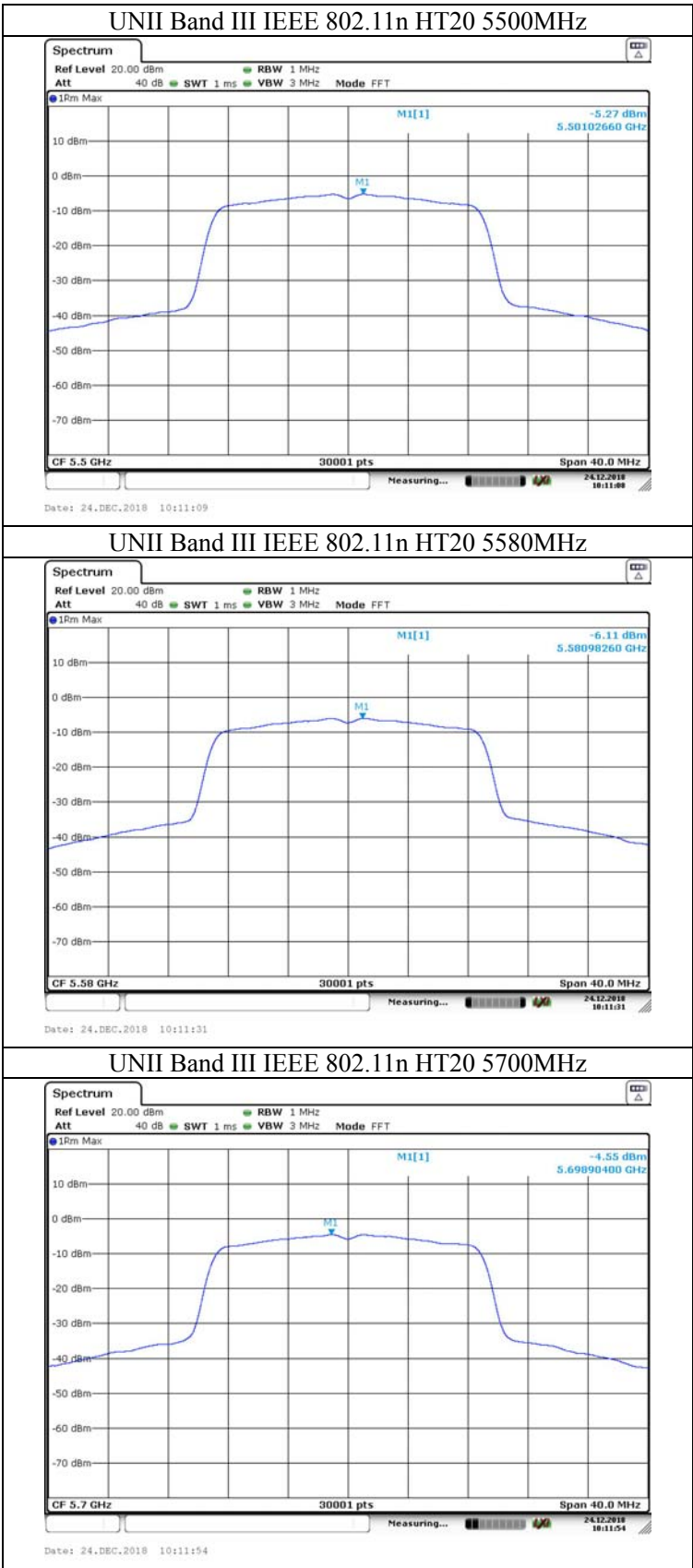


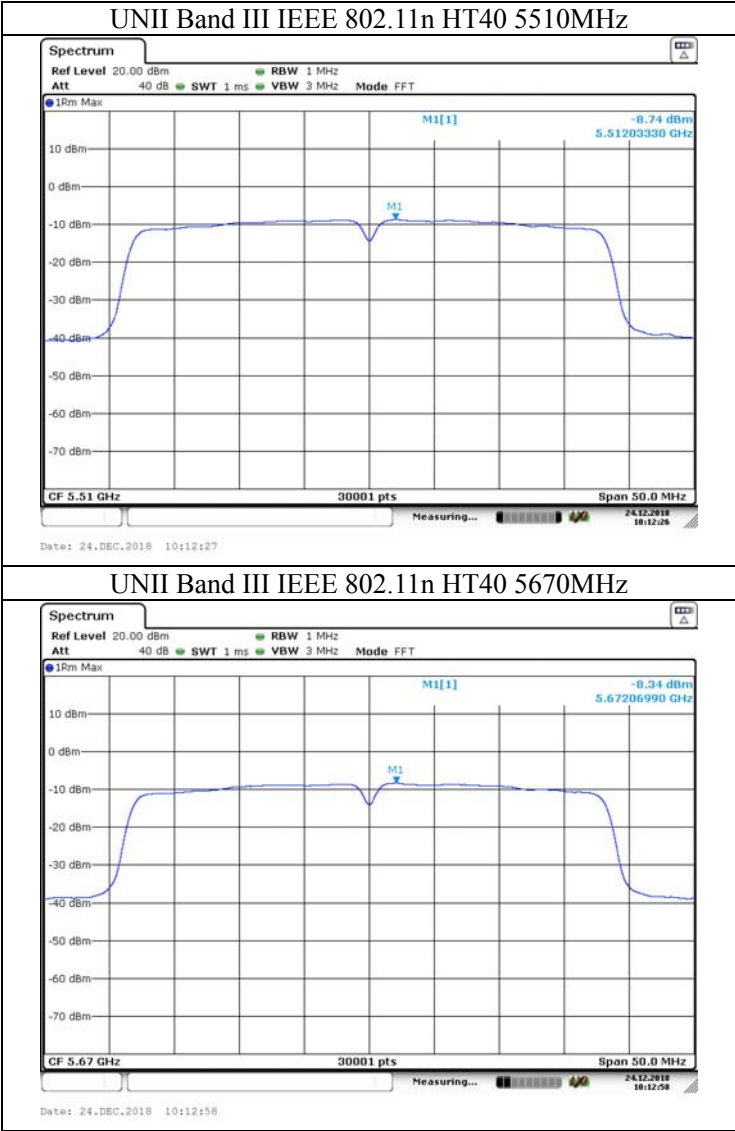


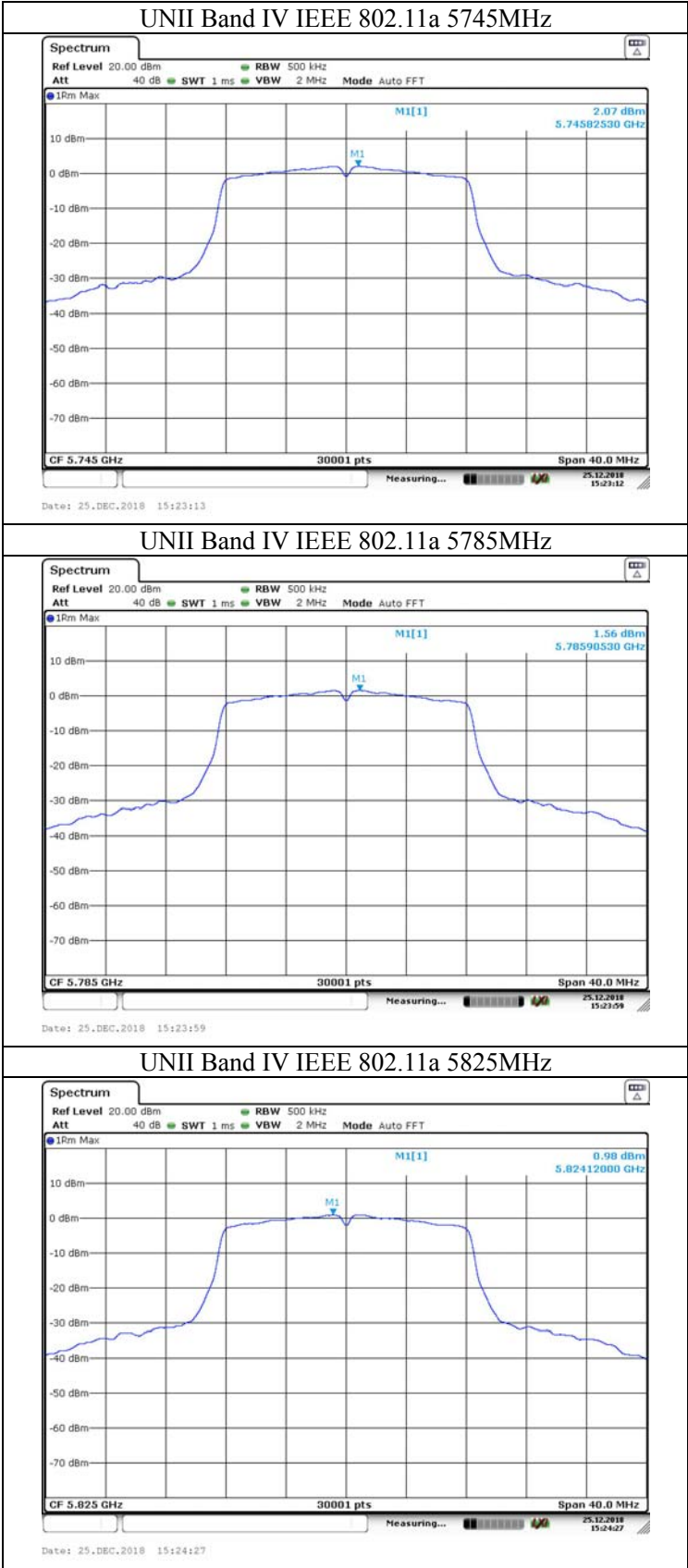


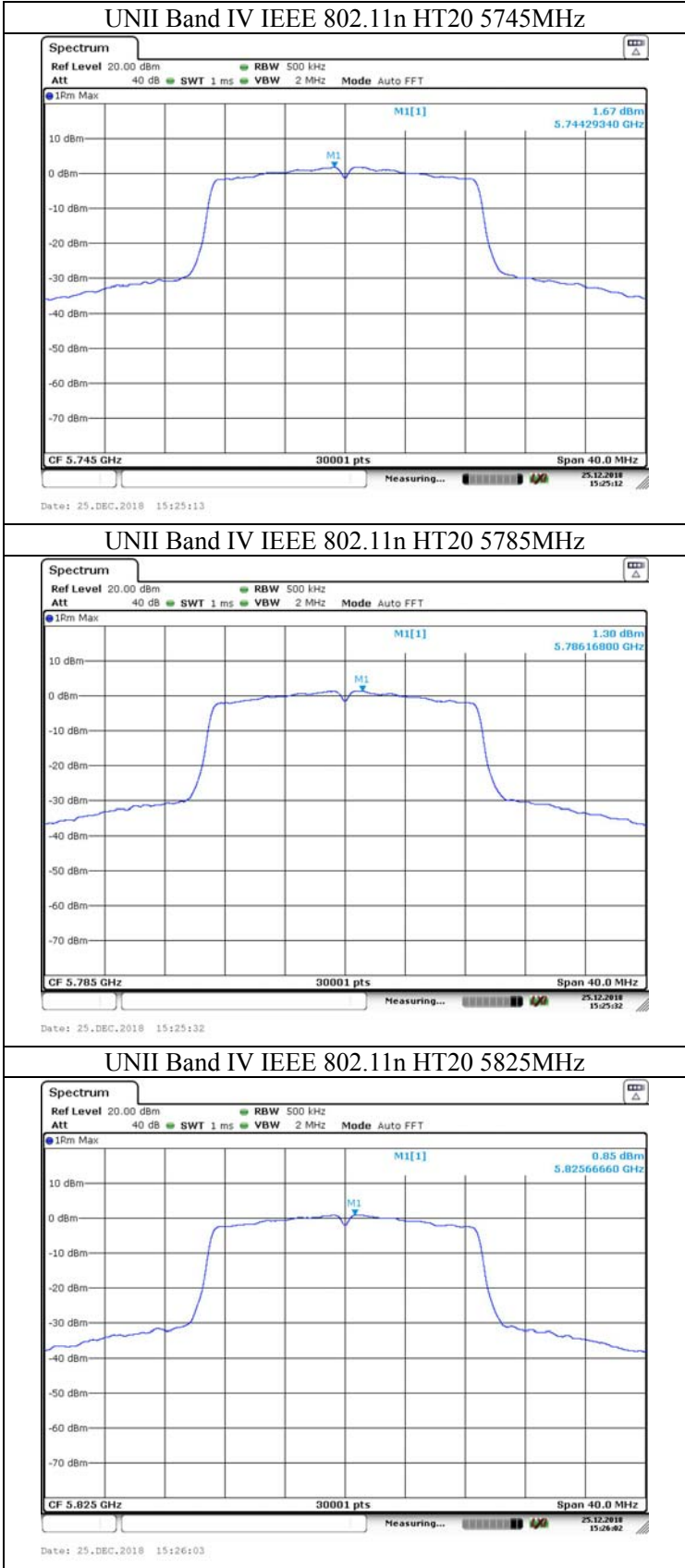


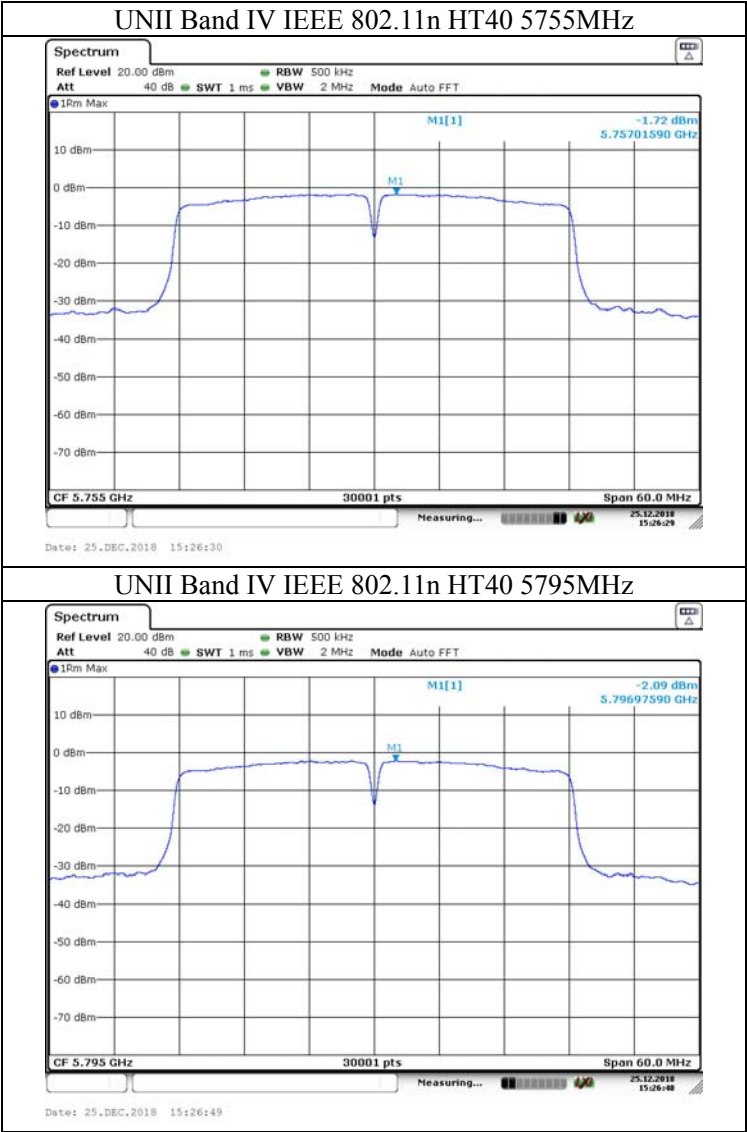










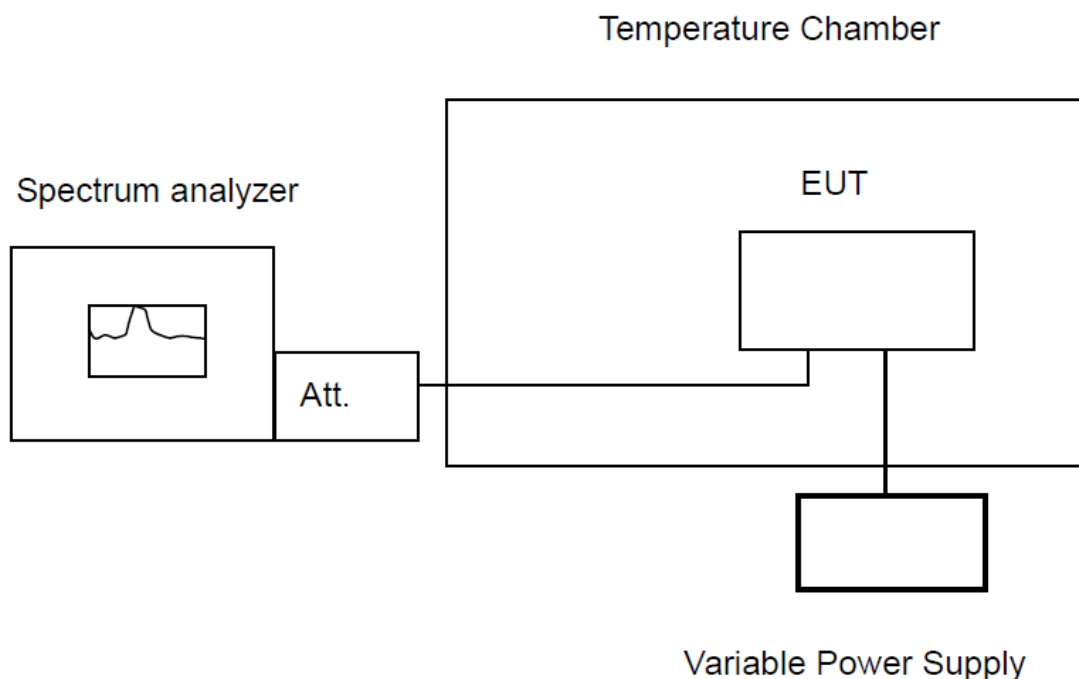


7. FREQUENCY STABILITY

7.1. Limit

According to §15.407(g), manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the operational description.

7.2. Test Procedure



Remark :

- 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.
- Place the EUT on the table and set it in the un-modulation transmitting mode.
- The equipment under test was connected to an external AC or DC power supply and input rated voltage. RF output was connected to a frequency counter or spectrum analyzer via feed through attenuators. The EUT was placed inside the temperature chamber. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and measure EUT 20°C operating frequency as reference frequency. Turn EUT off and set the chamber temperature to -20°C. After the temperature stabilized for approximately 30 minutes recorded the frequency. Repeat step measure with 10°C increased per stage until the highest temperature of +50°C reached.

7.3. Test Information

EUT: 8" Android Tablet		
M/N: ONA19TB002		
Test date: 2018-12-29	Test site: RF sit	Tested by: Seven

7.4. Test Result

Band	Mode	Temperature (°C)	Voltage (V)	Measured Frequency (MHz)	Limit Range (MHz)	Result
				Ant		
UNII Band I	IEEE 802.11a 5180MHz	50	120	5180.129517	5150-5250	Pass
		40	120	5180.125842	5150-5250	Pass
		30	120	5180.115245	5150-5250	Pass
		20	120	5180.115482	5150-5250	Pass
		10	120	5180.105412	5150-5250	Pass
		0	120	5180.101125	5150-5250	Pass
		-10	120	5180.115428	5150-5250	Pass
		-20	120	5180.124780	5150-5250	Pass
		20	108	5180.114514	5150-5250	Pass
		20	120	5180.120124	5150-5250	Pass
		20	132	5180.124510	5150-5250	Pass

Band	Mode	Temperature (°C)	Voltage (V)	Measured Frequency (MHz)	Limit Range (MHz)	Result
				Ant		
UNII Band I	IEEE 802.11a 5200MHz	50	120	5200.122517	5150-5250	Pass
		40	120	5200.121415	5150-5250	Pass
		30	120	5200.121415	5150-5250	Pass
		20	120	5200.114512	5150-5250	Pass
		10	120	5200.114254	5150-5250	Pass
		0	120	5200.104715	5150-5250	Pass
		-10	120	5200.121541	5150-5250	Pass
		-20	120	5200.132412	5150-5250	Pass
		20	108	5200.121415	5150-5250	Pass
		20	120	5200.112145	5150-5250	Pass
		20	132	5200.127154	5150-5250	Pass

Band	Mode	Temperature (°C)	Voltage (V)	Measured Frequency (MHz)	Limit Range (MHz)	Result
				Ant		
UNII Band I	IEEE 802.11a 5240MHz	50	120	5240.127988	5150-5250	Pass
		40	120	5240.112141	5150-5250	Pass
		30	120	5240.112154	5150-5250	Pass
		20	120	5240.125214	5150-5250	Pass
		10	120	5240.102154	5150-5250	Pass
		0	120	5240.121415	5150-5250	Pass
		-10	120	5240.112157	5150-5250	Pass
		-20	120	5240.112154	5150-5250	Pass
		20	108	5240.121415	5150-5250	Pass
		20	120	5240.112141	5150-5250	Pass
		20	132	5240.102145	5150-5250	Pass

Band	Mode	Temperature (°C)	Voltage (V)	Measured Frequency (MHz)	Limit Range (MHz)	Result
				Ant		
UNII Band II	IEEE 802.11a 5260MHz	50	120	5260.119517	5250-5350	Pass
		40	120	5260.121012	5250-5350	Pass
		30	120	5260.125141	5250-5350	Pass
		20	120	5260.112101	5250-5350	Pass
		10	120	5260.102141	5250-5350	Pass
		0	120	5260.112154	5250-5350	Pass
		-10	120	5260.102145	5250-5350	Pass
		-20	120	5260.121412	5250-5350	Pass
		20	108	5260.121412	5250-5350	Pass
		20	120	5260.121412	5250-5350	Pass
		20	132	5260.121412	5250-5350	Pass

Band	Mode	Temperature (°C)	Voltage (V)	Measured Frequency (MHz)	Limit Range (MHz)	Result
				Ant		
UNII Band II	IEEE 802.11a 5300MHz	50	120	5300.120518	5250-5350	Pass
		40	120	5300.121015	5250-5350	Pass
		30	120	5300.101214	5250-5350	Pass
		20	120	5300.121012	5250-5350	Pass
		10	120	5300.112514	5250-5350	Pass
		0	120	5300.121415	5250-5350	Pass
		-10	120	5300.112141	5250-5350	Pass
		-20	120	5300.121548	5250-5350	Pass
		20	108	5300.125148	5250-5350	Pass
		20	120	5300.112514	5250-5350	Pass
		20	132	5300.102145	5250-5350	Pass

Band	Mode	Temperature (°C)	Voltage (V)	Measured Frequency (MHz)	Limit Range (MHz)	Result
				Ant 1		
UNII Band II	IEEE 802.11a 5320MHz	50	120	5320.128517	5250-5350	Pass
		40	120	5320.112154	5250-5350	Pass
		30	120	5320.121415	5250-5350	Pass
		20	120	5320.112145	5250-5350	Pass
		10	120	5320.112154	5250-5350	Pass
		0	120	5320.115415	5250-5350	Pass
		-10	120	5320.115412	5250-5350	Pass
		-20	120	5320.114517	5250-5350	Pass
		20	108	5320.115415	5250-5350	Pass
		20	120	5320.115478	5250-5350	Pass
		20	132	5320.114554	5250-5350	Pass

Band	Mode	Temperature (°C)	Voltage (V)	Measured Frequency (MHz)	Limit Range (MHz)	Result
				Ant		
UNII Band III	IEEE 802.11a 5500MHz	50	120	5500.113516	5475-5725	Pass
		40	120	5500.112151	5475-5725	Pass
		30	120	5500.115418	5475-5725	Pass
		20	120	5500.121415	5475-5725	Pass
		10	120	5500.112415	5475-5725	Pass
		0	120	5500.125145	5475-5725	Pass
		-10	120	5500.112145	5475-5725	Pass
		-20	120	5500.121415	5475-5725	Pass
		20	108	5500.115145	5475-5725	Pass
		20	120	5500.112154	5475-5725	Pass
		20	132	5500.112141	5475-5725	Pass

Band	Mode	Temperature (°C)	Voltage (V)	Measured Frequency (MHz)	Limit Range (MHz)	Result
				Ant 1		
UNII Band III	IEEE 802.11a 5580MHz	50	120	5580.123988	5475-5725	Pass
		40	120	5580.125141	5475-5725	Pass
		30	120	5580.112101	5475-5725	Pass
		20	120	5580.102141	5475-5725	Pass
		10	120	5580.112154	5475-5725	Pass
		0	120	5580.102145	5475-5725	Pass
		-10	120	5580.121412	5475-5725	Pass
		-20	120	5580.125141	5475-5725	Pass
		20	108	5580.112145	5475-5725	Pass
		20	120	5580.102141	5475-5725	Pass
		20	132	5580.112154	5475-5725	Pass

Band	Mode	Temperature (°C)	Voltage (V)	Measured Frequency (MHz)	Limit Range (MHz)	Result
				Ant		
UNII Band III	IEEE 802.11a 5700MHz	50	120	5700.133516	5475-5725	Pass
		40	120	5700.112154	5475-5725	Pass
		30	120	5700.113524	5475-5725	Pass
		20	120	5700.111254	5475-5725	Pass
		10	120	5700.111214	5475-5725	Pass
		0	120	5700.125141	5475-5725	Pass
		-10	120	5700.112145	5475-5725	Pass
		-20	120	5700.115748	5475-5725	Pass
		20	108	5700.126152	5475-5725	Pass
		20	120	5700.111544	5475-5725	Pass
		20	132	5700.121415	5475-5725	Pass

Band	Mode	Temperature (°C)	Voltage (V)	Measured Frequency (MHz)	Limit Range (MHz)	Result
				Ant		
UNII Band IV	IEEE 802.11a 5745MHz	50	120	5745.129517	5725-5850	Pass
		40	120	5745.125410	5725-5850	Pass
		30	120	5745.101524	5725-5850	Pass
		20	120	5745.101251	5725-5850	Pass
		10	120	5745.102151	5725-5850	Pass
		0	120	5745.112151	5725-5850	Pass
		-10	120	5745.102151	5725-5850	Pass
		-20	120	5745.112154	5725-5850	Pass
		20	108	5745.101214	5725-5850	Pass
		20	120	5745.110215	5725-5850	Pass
		20	132	5745.102159	5725-5850	Pass

Band	Mode	Temperature (°C)	Voltage (V)	Measured Frequency (MHz)	Limit Range (MHz)	Result
				Ant		
UNII Band IV	IEEE 802.11a 5785MHz	50	120	5785.124516	5725-5850	Pass
		40	120	5785.124151	5725-5850	Pass
		30	120	5785.115412	5725-5850	Pass
		20	120	5785.112151	5725-5850	Pass
		10	120	5785.112511	5725-5850	Pass
		0	120	5785.112154	5725-5850	Pass
		-10	120	5785.113526	5725-5850	Pass
		-20	120	5785.112154	5725-5850	Pass
		20	108	5785.112145	5725-5850	Pass
		20	120	5785.112145	5725-5850	Pass
		20	132	5785.112154	5725-5850	Pass

Band	Mode	Temperature (°C)	Voltage (V)	Measured Frequency (MHz)	Limit Range (MHz)	Result
				Ant		
UNII Band IV	IEEE 802.11a 5825MHz	50	120	5785.134516	5725-5850	Pass
		40	120	5785.112145	5725-5850	Pass
		30	120	5785.112151	5725-5850	Pass
		20	120	5785.112141	5725-5850	Pass
		10	120	5785.114125	5725-5850	Pass
		0	120	5785.111255	5725-5850	Pass
		-10	120	5785.125221	5725-5850	Pass
		-20	120	5785.111215	5725-5850	Pass
		20	108	5785.121141	5725-5850	Pass
		20	120	5785.121141	5725-5850	Pass
		20	132	5785.112151	5725-5850	Pass

Band	Mode	Temperature (°C)	Voltage (V)	Measured Frequency (MHz)	Limit Range (MHz)	Result
				Ant		
UNII Band I	IEEE 802.11n HT20 5180MHz	50	120	5180.132516	5150-5250	Pass
		40	120	5180.111410	5150-5250	Pass
		30	120	5180.125214	5150-5250	Pass
		20	120	5180.112510	5150-5250	Pass
		10	120	5180.112141	5150-5250	Pass
		0	120	5180.121415	5150-5250	Pass
		-10	120	5180.101215	5150-5250	Pass
		-20	120	5180.111517	5150-5250	Pass
		20	108	5180.121415	5150-5250	Pass
		20	120	5180.112145	5150-5250	Pass
		20	132	5180.121415	5150-5250	Pass

Band	Mode	Temperature (°C)	Voltage (V)	Measured Frequency (MHz)	Limit Range (MHz)	Result
				Ant		
UNII Band I	IEEE 802.11n HT20 5200MHz	50	120	5200.117518	5150-5250	Pass
		40	120	5200.112510	5150-5250	Pass
		30	120	5200.112514	5150-5250	Pass
		20	120	5200.112510	5150-5250	Pass
		10	120	5200.112514	5150-5250	Pass
		0	120	5200.125214	5150-5250	Pass
		-10	120	5200.111259	5150-5250	Pass
		-20	120	5200.121411	5150-5250	Pass
		20	108	5200.121151	5150-5250	Pass
		20	120	5200.112141	5150-5250	Pass
		20	132	5200.112140	5150-5250	Pass

Band	Mode	Temperature (°C)	Voltage (V)	Measured Frequency (MHz)	Limit Range (MHz)	Result
				Ant		
UNII Band I	IEEE 802.11n HT20 5240MHz	50	120	5240.116048	5150-5250	Pass
		40	120	5240.112525	5150-5250	Pass
		30	120	5240.125251	5150-5250	Pass
		20	120	5240.119583	5150-5250	Pass
		10	120	5240.112547	5150-5250	Pass
		0	120	5240.114578	5150-5250	Pass
		-10	120	5240.119586	5150-5250	Pass
		-20	120	5240.111658	5150-5250	Pass
		20	108	5240.125480	5150-5250	Pass
		20	120	5240.112524	5150-5250	Pass
		20	132	5240.112154	5150-5250	Pass

Band	Mode	Temperature (°C)	Voltage (V)	Measured Frequency (MHz)	Limit Range (MHz)	Result
				Ant		
UNII Band II	IEEE 802.11n HT20 5260MHz	50	120	5260.121988	5250-5350	Pass
		40	120	5260.121410	5250-5350	Pass
		30	120	5260.121520	5250-5350	Pass
		20	120	5260.115248	5250-5350	Pass
		10	120	5260.112521	5250-5350	Pass
		0	120	5260.112418	5250-5350	Pass
		-10	120	5260.111359	5250-5350	Pass
		-20	120	5260.114790	5250-5350	Pass
		20	108	5260.111528	5250-5350	Pass
		20	120	5260.111355	5250-5350	Pass
		20	132	5260.121019	5250-5350	Pass

Band	Mode	Temperature (°C)	Voltage (V)	Measured Frequency (MHz)	Limit Range (MHz)	Result
				Ant		
UNII Band II	IEEE 802.11n HT20 5300MHz	50	120	5300.114989	5250-5350	Pass
		40	120	5300.125219	5250-5350	Pass
		30	120	5300.112145	5250-5350	Pass
		20	120	5300.112529	5250-5350	Pass
		10	120	5300.112548	5250-5350	Pass
		0	120	5300.111215	5250-5350	Pass
		-10	120	5300.125258	5250-5350	Pass
		-20	120	5300.112548	5250-5350	Pass
		20	108	5300.112524	5250-5350	Pass
		20	120	5300.112521	5250-5350	Pass
		20	132	5300.114258	5250-5350	Pass

Band	Mode	Temperature (°C)	Voltage (V)	Measured Frequency (MHz)	Limit Range (MHz)	Result
				Ant		
UNII Band II	IEEE 802.11n HT20 5320MHz	50	120	5320.114519	5250-5350	Pass
		40	120	5320.112152	5250-5350	Pass
		30	120	5320.121415	5250-5350	Pass
		20	120	5320.112521	5250-5350	Pass
		10	120	5320.112521	5250-5350	Pass
		0	120	5320.112525	5250-5350	Pass
		-10	120	5320.112528	5250-5350	Pass
		-20	120	5320.111528	5250-5350	Pass
		20	108	5320.115288	5250-5350	Pass
		20	120	5320.115289	5250-5350	Pass
		20	132	5320.110215	5250-5350	Pass

Band	Mode	Temperature (°C)	Voltage (V)	Measured Frequency (MHz)	Limit Range (MHz)	Result
				Ant 1		
UNII Band III	IEEE 802.11n HT20 5500MHz	50	120	5500.129047	5475-5725	Pass
		40	120	5500.112145	5475-5725	Pass
		30	120	5500.112145	5475-5725	Pass
		20	120	5500.112521	5475-5725	Pass
		10	120	5500.112511	5475-5725	Pass
		0	120	5500.112141	5475-5725	Pass
		-10	120	5500.112521	5475-5725	Pass
		-20	120	5500.112528	5475-5725	Pass
		20	108	5500.112521	5475-5725	Pass
		20	120	5500.120145	5475-5725	Pass
		20	132	5500.112541	5475-5725	Pass

Band	Mode	Temperature (°C)	Voltage (V)	Measured Frequency (MHz)	Limit Range (MHz)	Result
				Ant 1		
UNII Band III	IEEE 802.11n HT20 5580MHz	50	120	5580.126987	5475-5725	Pass
		40	120	5580.112425	5475-5725	Pass
		30	120	5580.102105	5475-5725	Pass
		20	120	5580.112521	5475-5725	Pass
		10	120	5580.110215	5475-5725	Pass
		0	120	5580.114158	5475-5725	Pass
		-10	120	5580.121450	5475-5725	Pass
		-20	120	5580.114528	5475-5725	Pass
		20	108	5580.114158	5475-5725	Pass
		20	120	5580.141571	5475-5725	Pass
		20	132	5580.112415	5475-5725	Pass

Band	Mode	Temperature (°C)	Voltage (V)	Measured Frequency (MHz)	Limit Range (MHz)	Result
				Ant		
UNII Band III	IEEE 802.11n HT20 5700MHz	50	120	5700.126518	5475-5725	Pass
		40	120	5700.114152	5475-5725	Pass
		30	120	5700.122215	5475-5725	Pass
		20	120	5700.112141	5475-5725	Pass
		10	120	5700.121415	5475-5725	Pass
		0	120	5700.111415	5475-5725	Pass
		-10	120	5700.112141	5475-5725	Pass
		-20	120	5700.112159	5475-5725	Pass
		20	108	5700.112141	5475-5725	Pass
		20	120	5700.112141	5475-5725	Pass
		20	132	5700.111215	5475-5725	Pass

Band	Mode	Temperature (°C)	Voltage (V)	Measured Frequency (MHz)	Limit Range (MHz)	Result
				Ant		
UNII Band IV	IEEE 802.11n HT20 5745MHz	50	120	5745.124517	5725-5850	Pass
		40	120	5745.112141	5725-5850	Pass
		30	120	5745.125215	5725-5850	Pass
		20	120	5745.112154	5725-5850	Pass
		10	120	5745.112521	5725-5850	Pass
		0	120	5745.111526	5725-5850	Pass
		-10	120	5745.102599	5725-5850	Pass
		-20	120	5745.112528	5725-5850	Pass
		20	108	5745.124517	5725-5850	Pass
		20	120	5745.112141	5725-5850	Pass
		20	132	5745.125215	5725-5850	Pass

Band	Mode	Temperature (°C)	Voltage (V)	Measured Frequency (MHz)	Limit Range (MHz)	Result
				Ant		
UNII Band IV	IEEE 802.11n HT20 5785MHz	50	120	5785.177988	5725-5850	Pass
		40	120	5785.112511	5725-5850	Pass
		30	120	5785.115215	5725-5850	Pass
		20	120	5785.115215	5725-5850	Pass
		10	120	5785.114152	5725-5850	Pass
		0	120	5785.111252	5725-5850	Pass
		-10	120	5785.121250	5725-5850	Pass
		-20	120	5785.111251	5725-5850	Pass
		20	108	5785.122140	5725-5850	Pass
		20	120	5785.114125	5725-5850	Pass
		20	132	5785.112521	5725-5850	Pass

Band	Mode	Temperature (°C)	Voltage (V)	Measured Frequency (MHz)	Limit Range (MHz)	Result
				Ant		
UNII Band IV	IEEE 802.11n HT20 5825MHz	50	120	5825.135516	5725-5850	Pass
		40	120	5825.111252	5725-5850	Pass
		30	120	5825.125214	5725-5850	Pass
		20	120	5825.112148	5725-5850	Pass
		10	120	5825.112521	5725-5850	Pass
		0	120	5825.112521	5725-5850	Pass
		-10	120	5825.125215	5725-5850	Pass
		-20	120	5825.112145	5725-5850	Pass
		20	108	5825.112521	5725-5850	Pass
		20	120	5825.120125	5725-5850	Pass
		20	132	5825.121459	5725-5850	Pass

Band	Mode	Temperature (°C)	Voltage (V)	Measured Frequency (MHz)	Limit Range (MHz)	Result
				Ant		
UNII Band I	IEEE 802.11n HT40 5190MHz	50	120	5190.132074	5150-5250	Pass
		40	120	5190.132326	5150-5250	Pass
		30	120	5190.132610	5150-5250	Pass
		20	120	5190.125988	5150-5250	Pass
		10	120	5190.131397	5150-5250	Pass
		0	120	5190.132799	5150-5250	Pass
		-10	120	5190.132549	5150-5250	Pass
		-20	120	5190.131656	5150-5250	Pass
		20	108	5190.131999	5150-5250	Pass
		20	120	5190.132537	5150-5250	Pass
		20	132	5190.132027	5150-5250	Pass

Band	Mode	Temperature (°C)	Voltage (V)	Measured Frequency (MHz)	Limit Range (MHz)	Result
				Ant		
UNII Band I	IEEE 802.11n HT40 5230MHz	50	120	5230.131419	5150-5250	Pass
		40	120	5230.132204	5150-5250	Pass
		30	120	5230.131661	5150-5250	Pass
		20	120	5230.131264	5150-5250	Pass
		10	120	5230.132582	5150-5250	Pass
		0	120	5230.132003	5150-5250	Pass
		-10	120	5230.131999	5150-5250	Pass
		-20	120	5230.131733	5150-5250	Pass
		20	108	5230.132388	5150-5250	Pass
		20	120	5230.131833	5150-5250	Pass
		20	132	5230.131260	5150-5250	Pass

Band	Mode	Temperature (°C)	Voltage (V)	Measured Frequency (MHz)	Limit Range (MHz)	Result
				Ant		
UNII Band II	IEEE 802.11n HT40 5270MHz	50	120	5270.131539	5250-5350	Pass
		40	120	5270.132750	5250-5350	Pass
		30	120	5270.132478	5250-5350	Pass
		20	120	5270.117988	5250-5350	Pass
		10	120	5270.132179	5250-5350	Pass
		0	120	5270.132029	5250-5350	Pass
		-10	120	5270.132229	5250-5350	Pass
		-20	120	5270.131321	5250-5350	Pass
		20	108	5270.131284	5250-5350	Pass
		20	120	5270.131412	5250-5350	Pass
		20	132	5270.131686	5250-5350	Pass

Band	Mode	Temperature (°C)	Voltage (V)	Measured Frequency (MHz)	Limit Range (MHz)	Result
				Ant		
UNII Band II	IEEE 802.11n HT40 5310MHz	50	120	5310.131904	5250-5350	Pass
		40	120	5310.131289	5250-5350	Pass
		30	120	5310.132713	5250-5350	Pass
		20	120	5310.125987	5250-5350	Pass
		10	120	5310.131695	5250-5350	Pass
		0	120	5310.131548	5250-5350	Pass
		-10	120	5310.131508	5250-5350	Pass
		-20	120	5310.132364	5250-5350	Pass
		20	108	5310.132610	5250-5350	Pass
		20	120	5310.131983	5250-5350	Pass
		20	132	5310.131790	5250-5350	Pass

Band	Mode	Temperature (°C)	Voltage (V)	Measured Frequency (MHz)	Limit Range (MHz)	Result
				Ant		
UNII Band III	IEEE 802.11n HT40 5510MHz	50	120	5510.121400	5475-5725	Pass
		40	120	5510.122755	5475-5725	Pass
		30	120	5510.121994	5475-5725	Pass
		20	120	5510.131987	5475-5725	Pass
		10	120	5510.121381	5475-5725	Pass
		0	120	5510.121595	5475-5725	Pass
		-10	120	5510.121699	5475-5725	Pass
		-20	120	5510.121359	5475-5725	Pass
		20	108	5510.121441	5475-5725	Pass
		20	120	5510.121360	5475-5725	Pass
		20	132	5510.121925	5475-5725	Pass

Band	Mode	Temperature (°C)	Voltage (V)	Measured Frequency (MHz)	Limit Range (MHz)	Result
				Ant		
UNII Band III	IEEE 802.11n HT40 5670MHz	50	120	5670.122467	5475-5725	Pass
		40	120	5670.121726	5475-5725	Pass
		30	120	5670.122103	5475-5725	Pass
		20	120	5670.133987	5475-5725	Pass
		10	120	5670.122856	5475-5725	Pass
		0	120	5670.122825	5475-5725	Pass
		-10	120	5670.122651	5475-5725	Pass
		-20	120	5670.122065	5475-5725	Pass
		20	108	5670.121524	5475-5725	Pass
		20	120	5670.122570	5475-5725	Pass
		20	132	5670.122186	5475-5725	Pass

Band	Mode	Temperature (°C)	Voltage (V)	Measured Frequency (MHz)	Limit Range (MHz)	Result
				Ant		
UNII Band IV	IEEE 802.11n HT40 5755MHz	50	120	5755.121465	5725-5850	Pass
		40	120	5755.121736	5725-5850	Pass
		30	120	5755.122556	5725-5850	Pass
		20	120	5755.135987	5725-5850	Pass
		10	120	5755.122303	5725-5850	Pass
		0	120	5755.122070	5725-5850	Pass
		-10	120	5755.121272	5725-5850	Pass
		-20	120	5755.122224	5725-5850	Pass
		20	108	5755.122657	5725-5850	Pass
		20	120	5755.122809	5725-5850	Pass
		20	132	5755.122057	5725-5850	Pass

Band	Mode	Temperature (°C)	Voltage (V)	Measured Frequency (MHz)	Limit Range (MHz)	Result
				Ant		
UNII Band IV	IEEE 802.11n HT40 5795MHz	50	120	5795.121338	5725-5850	Pass
		40	120	5795.122768	5725-5850	Pass
		30	120	5795.120266	5725-5850	Pass
		20	120	5795.133987	5725-5850	Pass
		10	120	5795.122511	5725-5850	Pass
		0	120	5795.121752	5725-5850	Pass
		-10	120	5795.122396	5725-5850	Pass
		-20	120	5795.121987	5725-5850	Pass
		20	108	5795.122351	5725-5850	Pass
		20	120	5795.120515	5725-5850	Pass
		20	132	5795.120839	5725-5850	Pass

8. RADIATED SPURIOUS EMISSIONS

8.1. Limit

All the emissions appearing within 15.205 restricted frequency bands shall not exceed the limits shown in 15.209&15.407(b), all the other emissions shall be at least 20dB below the fundamental emissions, or comply with 15.209 &15.407(b)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 &15.407(b) Limit

Frequency (MHz)	Field Strength(μ V/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 $\text{dB}\mu\text{V} = 20 \log \text{Emission level } \mu\text{V/m}$

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

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

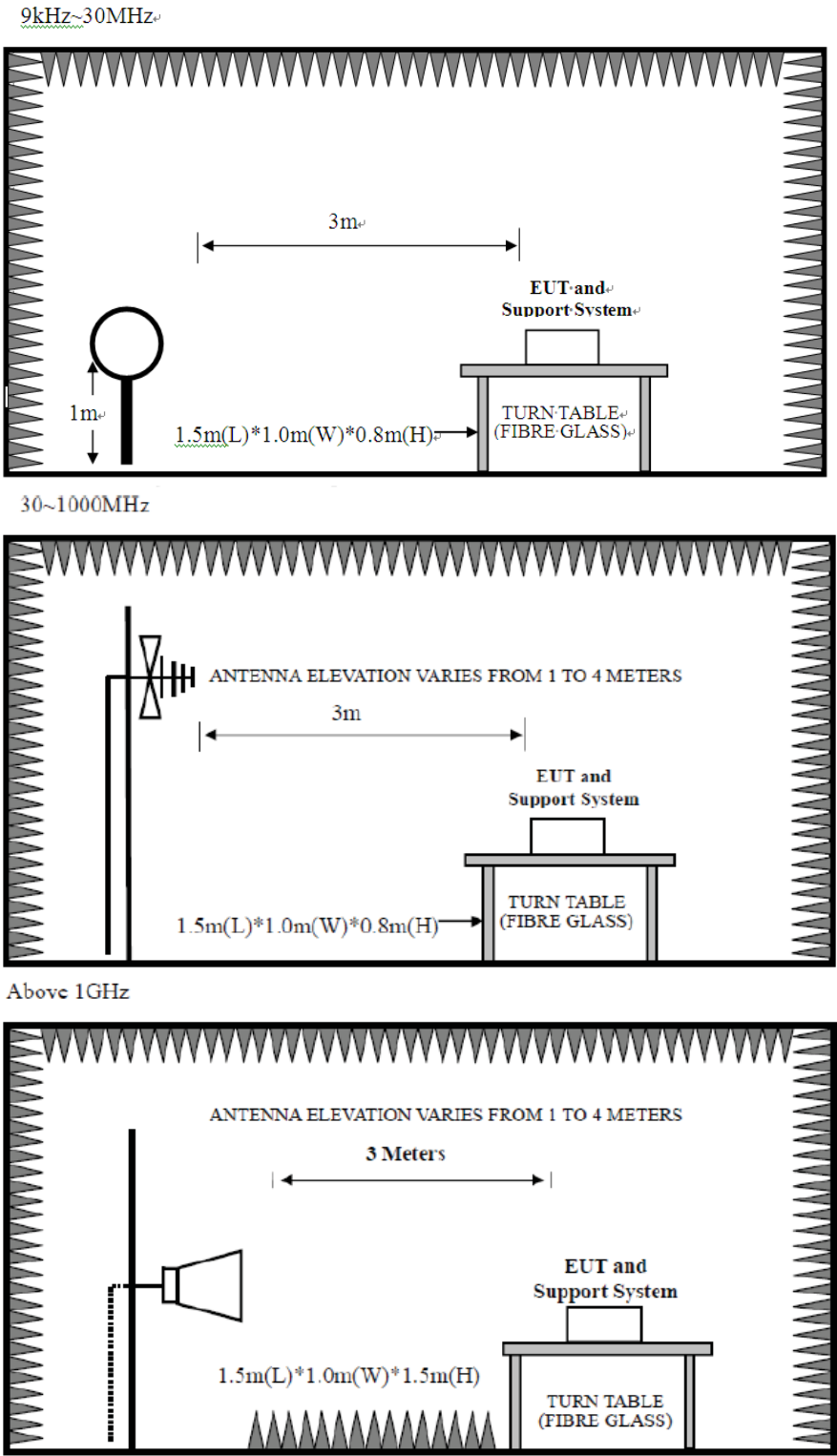
5150 MHz - 5250 MHz : e.i.r.p -27 dBm (68.2dBuV/m@3m)

5250 MHz - 5350 MHz : e.i.r.p -27 dBm (68.2dBuV/m@3m)

5470 MHz - 5725 MHz : e.i.r.p -27 dBm (68.2dBuV/m@3m)

5725 MHz - 5850 MHz : all emissions shall be limited to a level of -27 dBm/Mhz at 75Mhz or more above or below the band edge increasing linearly to 10dBm/Mhz at 25 Mhz above or below the band edge ,and from 25Mhz above or below the band edge increasing linearly to to a level of 15.6 dBm/Mhz at 5MHz above or below the band edge ,and from 5Mhz above or below the band edge increasing linearly to a level of 27 dBm/Mhz at the band edge.

8.2. Block Diagram of Test setup



8.3. 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 9 kHz to 10th harmonic are checked.

8.4. 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 5180MHz 、 5190MHz、 5200MHz、 5230 MHz、 5240 MHz、 5260 MHz、 5270 MHz、 5300 MHz、 5310 MHz、 5320 MHz、 5500 MHz、 5510 MHz、 5580 MHz、 5670 MHz、 5700 MHz、 5745 MHz、 5755 MHz、 5785 MHz、 5795 MHz、 5825MHz 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.

8.5. Test Data

9 kHz – 30 MHz

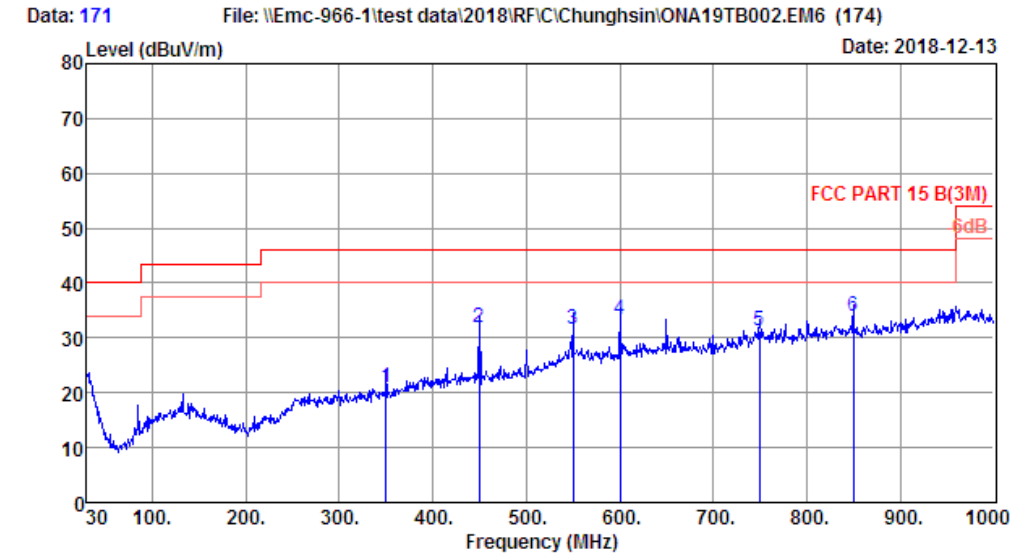
Pass

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

30 MHz – 1000 MHz

EST Technology

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



Site no. : 1# 966 Chamber Data no. : 171
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 : 8" Android Tablet
Power : DC 5V From Adapter Input AC 120V/60Hz
M/N : ONA19TB002
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	350.10	14.60	1.82	4.69	21.11	46.00	24.89	QP
2	450.01	17.20	2.17	12.43	31.80	46.00	14.20	QP
3	549.92	20.90	2.43	8.15	31.48	46.00	14.52	QP
4	600.36	20.30	2.54	10.52	33.36	46.00	12.64	QP
5	749.74	22.80	3.15	5.43	31.38	46.00	14.62	QP
6	849.65	23.80	3.17	7.09	34.06	46.00	11.94	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.

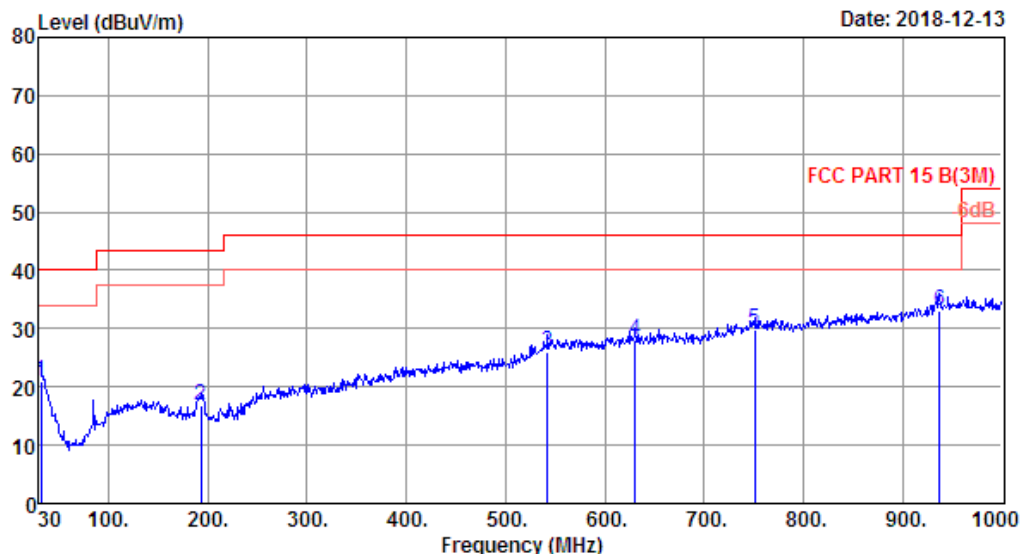
EST Technology

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

Data: 172

File: \\Emc-966-1\\test data\\2018\\RFIC\\Chunghsin\\ONA19TB002.EM6 (174)

Date: 2018-12-13



Site no. : 1# 966 Chamber Data no. : 172
 Dis. / Ant. : 3m 27090 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15 B(3M)
 Env. / Ins. : Temp:21.6';Humi:50.3%;Press:101.52kPa
 Engineer : Maybe
 EUT : 8" Android Tablet
 Power : DC 5V From Adapter Input AC 120V/60Hz
 M/N : ONA19TB002
 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	31.94	17.96	0.22	2.77	20.95	40.00	19.05	QP
2	192.96	8.25	1.08	7.52	16.85	43.50	26.65	QP
3	542.16	20.38	2.42	3.03	25.83	46.00	20.17	QP
4	630.43	20.73	2.66	4.76	28.15	46.00	17.85	QP
5	750.71	22.80	3.12	3.85	29.77	46.00	16.23	QP
6	936.95	25.29	3.60	4.15	33.04	46.00	12.96	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.

1000-18000 MHz

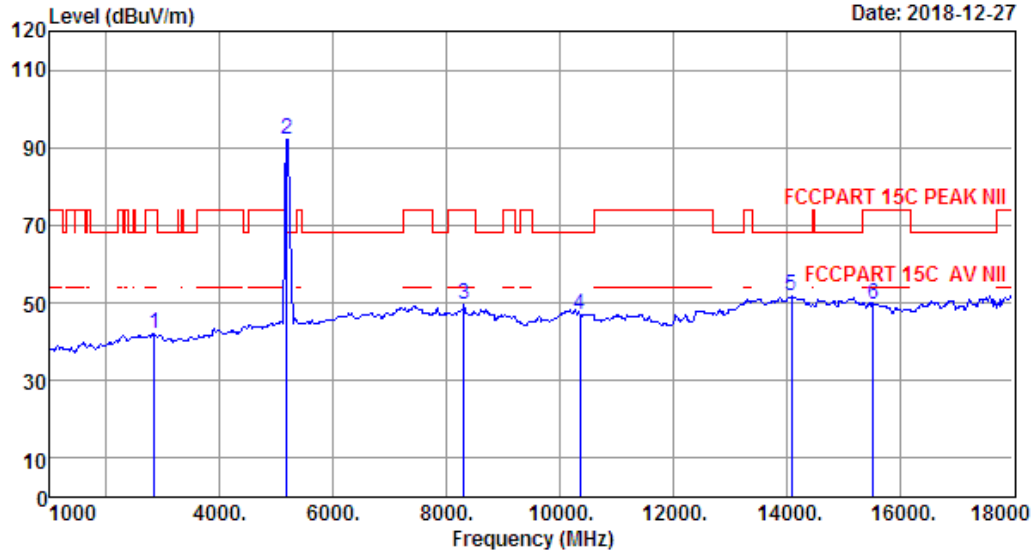
EST Technology

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

Data: 79

File: \\Emc-966-1\test data\2018\EMC\RFIC\Chunghsin\ONA19TB002.EM6 (174)

Date: 2018-12-27



Site no. : 1# 966 Chamber Data no. : 79
 Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : HORIZONTAL
 Limit : FCCPART 15C PEAK NII
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
 Engineer : Seven
 EUT : 8" Android Tablet
 Power : DC 5V From Adapter Input AC 120V/60Hz
 M/N : ONA19TB002
 Test Mode : IEEE 802.11a TX 5180MHz

	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	2836.00	28.13	3.55	36.56	47.09	42.21	74.00	31.79	Peak
2	5180.00	32.62	4.89	35.48	90.25	92.28	68.20	-24.08	Peak
3	8310.00	37.39	6.69	34.22	39.61	49.47	74.00	24.53	Peak
4	10360.00	39.25	10.05	34.28	32.06	47.08	68.20	21.12	Peak
5	14090.00	41.61	10.14	32.99	32.89	51.65	68.20	16.55	Peak
6	15540.00	39.38	10.84	32.34	31.73	49.61	74.00	24.39	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. Margin= Limit - Emission Level.
 3. The emission levels that are 20dB below the official limit are not reported.

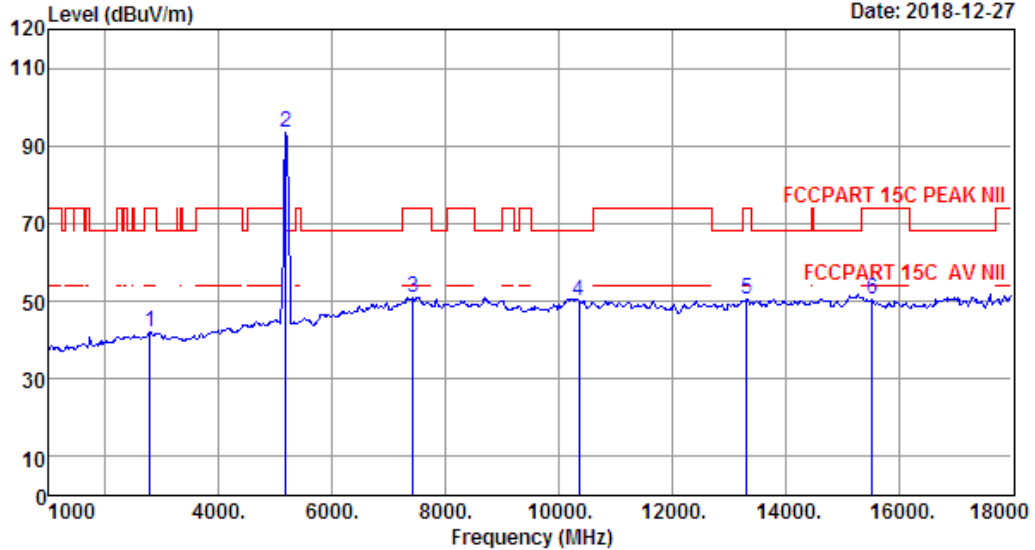
EST Technology

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

Data: 80

File: \\Emc-966-1\\test data\\2018\\EMC\\RFIC\\Chunghsin\\ONA19TB002.EM6 (174)

Date: 2018-12-27



Site no. : 1# 966 Chamber Data no. : 80
 Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : VERTICAL
 Limit : FCCPART 15C PEAK NII
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
 Engineer : Seven
 EUT : 8" Android Tablet
 Power : DC 5V From Adapter Input AC 120V/60Hz
 M/N : ONA19TB002
 Test Mode : IEEE 802.11a TX 5180MHz

	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	2785.00	28.05	3.51	36.36	47.04	42.24	74.00	31.76	Peak
2	5180.00	32.62	4.89	35.48	91.49	93.52	68.20	-25.32	Peak
3	7426.00	37.05	6.13	33.11	41.02	51.09	74.00	22.91	Peak
4	10360.00	39.25	10.05	34.28	34.86	49.88	68.20	18.32	Peak
5	13325.00	40.89	9.43	32.65	32.85	50.52	74.00	23.48	Peak
6	15540.00	39.38	10.84	32.34	32.46	50.34	74.00	23.66	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. Margin= Limit - Emission Level.
 3. The emission levels that are 20dB below the official limit are not reported.

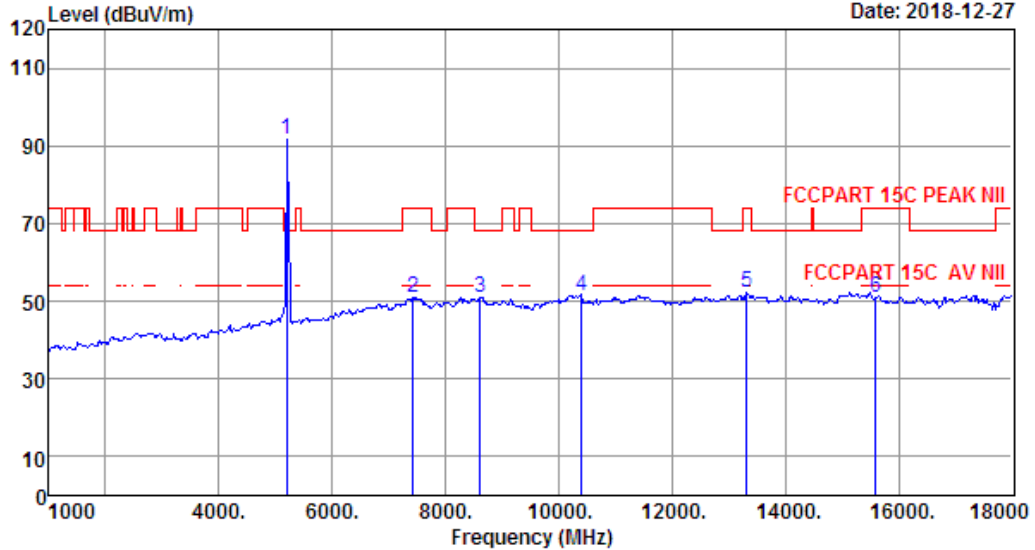
EST Technology

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

Data: 81

File: \\Emc-966-1\\test data\\2018\\EMC\\RFIC\\Chunghsin\\ONA19TB002.EM6 (174)

Date: 2018-12-27



Site no. : 1# 966 Chamber Data no. : 81
 Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : VERTICAL
 Limit : FCCPART 15C PEAK NII
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
 Engineer : Seven
 EUT : 8" Android Tablet
 Power : DC 5V From Adapter Input AC 120V/60Hz
 M/N : ONA19TB002
 Test Mode : IEEE 802.11a TX 5200MHz

	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	5200.00	32.64	4.90	35.50	89.43	91.47	68.20	-23.27	Peak
2	7426.00	37.05	6.13	33.11	40.93	51.00	74.00	23.00	Peak
3	8616.00	37.36	6.90	33.31	40.14	51.09	68.20	17.11	Peak
4	10400.00	39.26	9.95	34.24	36.33	51.30	68.20	16.90	Peak
5	13325.00	40.89	9.43	32.65	34.68	52.35	74.00	21.65	Peak
6	15600.00	39.15	10.80	32.30	33.10	50.75	74.00	23.25	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. Margin= Limit - Emission Level.
 3. The emission levels that are 20dB below the official limit are not reported.

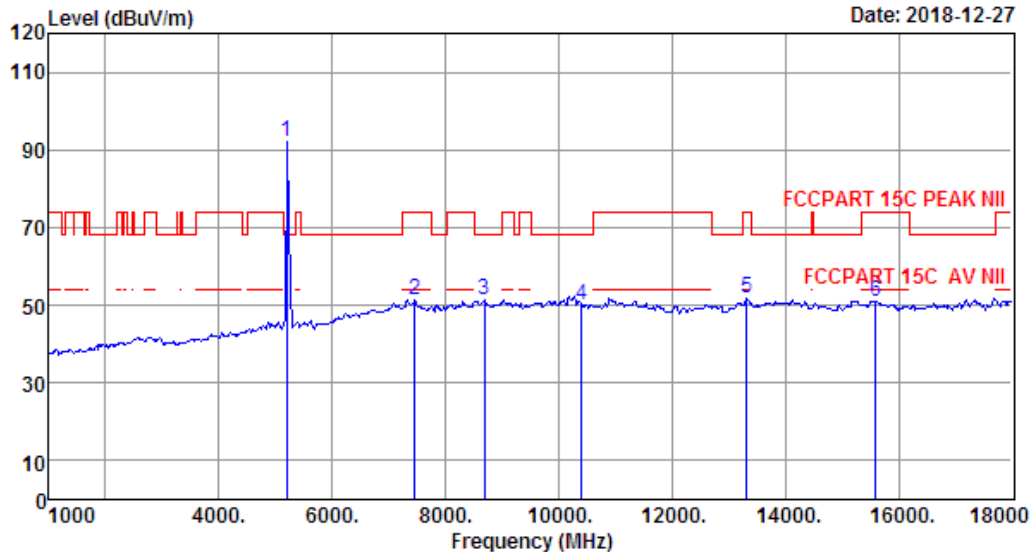
EST Technology

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

Data: 82

File: \\Emc-966-1\\test data\\2018\\EMC\\RFIC\\Chunghsin\\ONA19TB002.EM6 (174)

Date: 2018-12-27



Site no. : 1# 966 Chamber Data no. : 82
 Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : HORIZONTAL
 Limit : FCCPART 15C PEAK NII
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
 Engineer : Seven
 EUT : 8" Android Tablet
 Power : DC 5V From Adapter Input AC 120V/60Hz
 M/N : ONA19TB002
 Test Mode : IEEE 802.11a TX 5200MHz

	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	5200.00	32.64	4.90	35.50	90.03	92.07	68.20	-23.87	Peak
2	7460.00	37.12	6.14	33.05	40.98	51.19	74.00	22.81	Peak
3	8684.00	37.46	6.90	33.06	40.02	51.32	68.20	16.88	Peak
4	10400.00	39.26	9.95	34.24	35.23	50.20	68.20	18.00	Peak
5	13325.00	40.89	9.43	32.65	34.12	51.79	74.00	22.21	Peak
6	15600.00	39.15	10.80	32.30	33.23	50.88	74.00	23.12	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. Margin= Limit - Emission Level.
 3. The emission levels that are 20dB below the official limit are not reported.

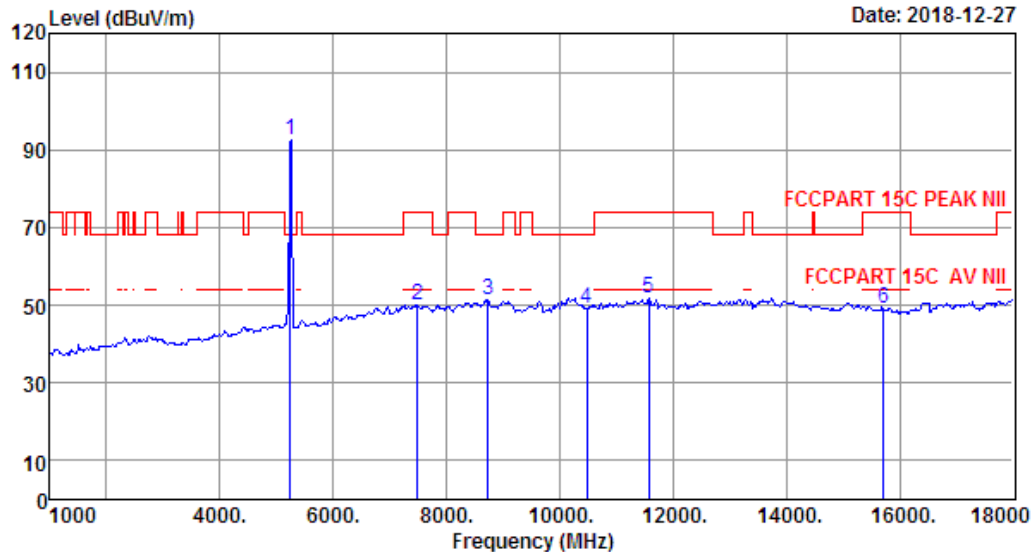
EST Technology

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

Data: 83

File: \\Emc-966-1\\test data\\2018\\EMC\\RFIC\\Chunghsin\\ONA19TB002.EM6 (174)

Date: 2018-12-27



Site no. : 1# 966 Chamber Data no. : 83
 Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : HORIZONTAL
 Limit : FCCPART 15C PEAK NII
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
 Engineer : Seven
 EUT : 8" Android Tablet
 Power : DC 5V From Adapter Input AC 120V/60Hz
 M/N : ONA19TB002
 Test Mode : IEEE 802.11a TX 5240MHz

	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	5240.00	32.68	4.93	35.54	90.31	92.38	68.20	-24.18	Peak
2	7494.00	37.20	6.15	33.00	39.58	49.93	74.00	24.07	Peak
3	8735.00	37.53	6.90	32.88	39.91	51.46	68.20	16.74	Peak
4	10480.00	39.29	9.70	34.16	34.41	49.24	68.20	18.96	Peak
5	11574.00	40.00	8.26	32.42	36.11	51.95	74.00	22.05	Peak
6	15720.00	38.74	10.74	32.22	31.77	49.03	74.00	24.97	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. Margin= Limit - Emission Level.
 3. The emission levels that are 20dB below the official limit are not reported.

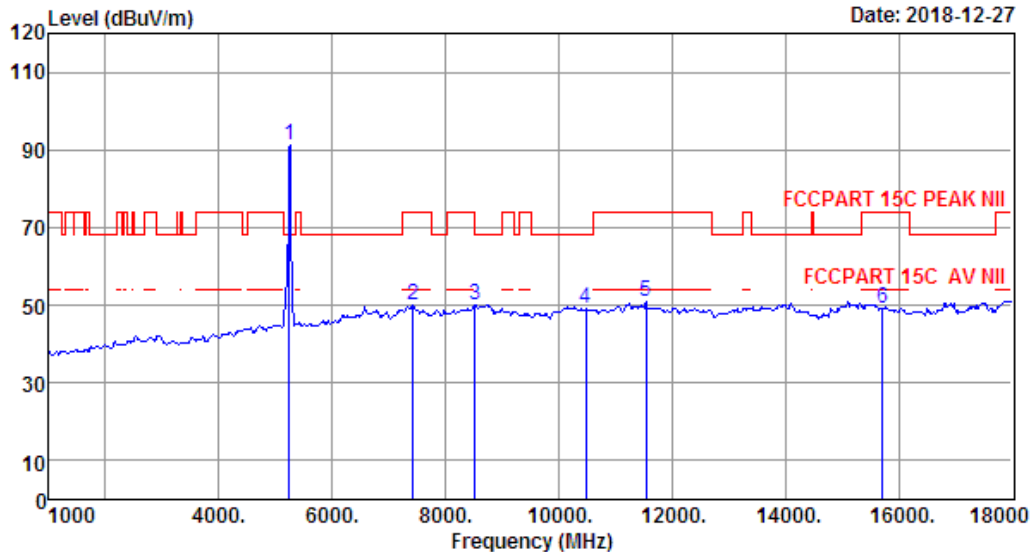
EST Technology

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

Data: 84

File: \\Emc-966-1\\test data\\2018\\EMC\\RFIC\\Chunghsin\\ONA19TB002.EM6 (174)

Date: 2018-12-27



Site no. : 1# 966 Chamber Data no. : 84
 Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : VERTICAL
 Limit : FCCPART 15C PEAK NII
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
 Engineer : Seven
 EUT : 8" Android Tablet
 Power : DC 5V From Adapter Input AC 120V/60Hz
 M/N : ONA19TB002
 Test Mode : IEEE 802.11a TX 5240MHz

	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	5240.00	32.68	4.93	35.54	89.13	91.20	68.20	-23.00	Peak
2	7426.00	37.05	6.13	33.11	39.83	49.90	74.00	24.10	Peak
3	8514.00	37.22	6.90	33.67	39.79	50.24	68.20	17.96	Peak
4	10480.00	39.29	9.70	34.16	34.22	49.05	68.20	19.15	Peak
5	11540.00	40.05	8.27	32.49	35.18	51.01	74.00	22.99	Peak
6	15720.00	38.74	10.74	32.22	32.00	49.26	74.00	24.74	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. Margin= Limit - Emission Level.
 3. The emission levels that are 20dB below the official limit are not reported.

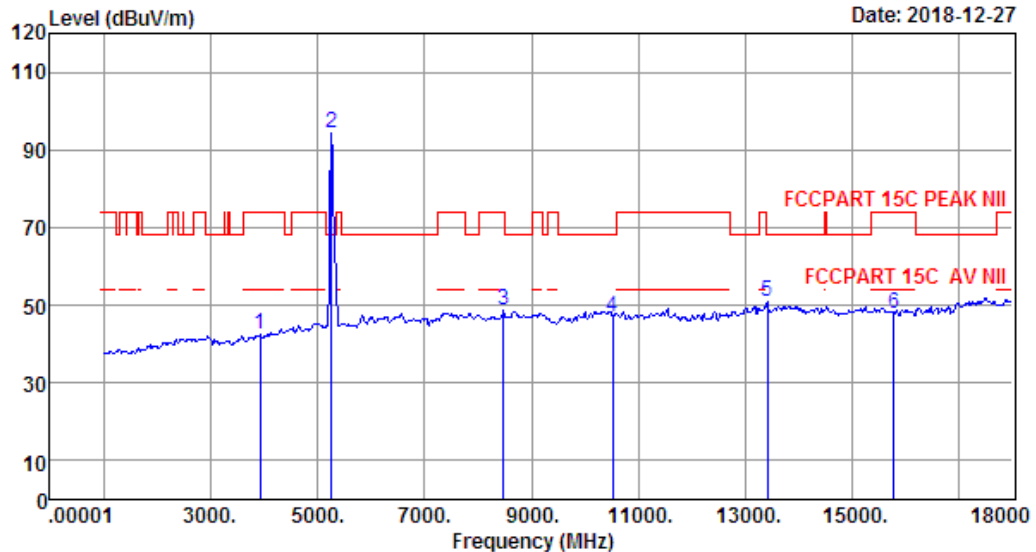
EST Technology

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

Data: 85

File: \\Emc-966-1\\test data\\2018\\EMC\\RFIC\\Chunghsin\\ONA19TB002.EM6 (174)

Date: 2018-12-27



Site no. : 1# 966 Chamber Data no. : 85
 Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : VERTICAL
 Limit : FCCPART 15C PEAK NII
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
 Engineer : Seven
 EUT : 8" Android Tablet
 Power : DC 5V From Adapter Input AC 120V/60Hz
 M/N : ONA19TB002
 Test Mode : IEEE 802.11a TX 5260MHz

	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	3924.00	30.18	4.46	35.95	43.70	42.39	74.00	31.61	Peak
2	5260.00	32.72	4.95	35.56	92.29	94.40	68.20	-26.20	Peak
3	8480.00	37.22	6.90	33.78	38.28	48.62	74.00	25.38	Peak
4	10520.00	39.32	9.60	34.10	32.28	47.10	68.20	21.10	Peak
5	13410.00	41.09	9.55	32.61	33.00	51.03	68.20	17.17	Peak
6	15780.00	38.56	10.72	32.18	30.85	47.95	74.00	26.05	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. Margin= Limit - Emission Level.
 3. The emission levels that are 20dB below the official limit are not reported.

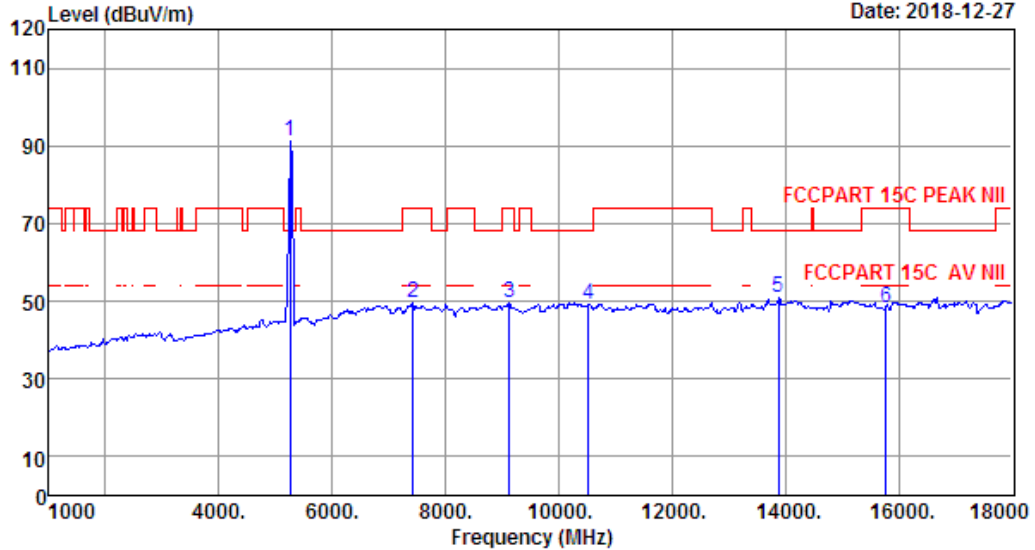
EST Technology

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

Data: 86

File: \\Emc-966-1\\test data\\2018\\EMC\\RFIC\\Chunghsin\\ONA19TB002.EM6 (174)

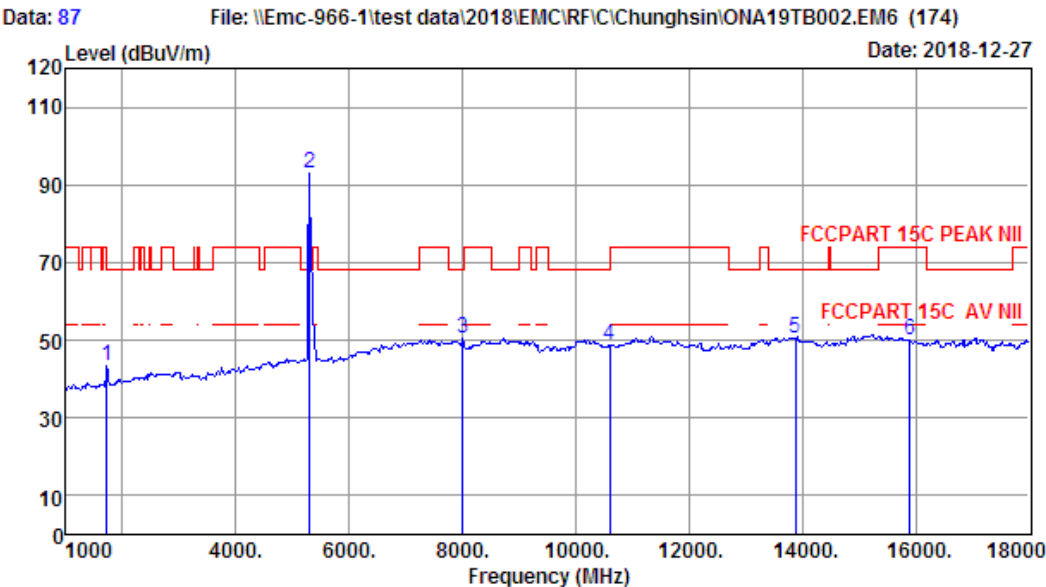
Date: 2018-12-27



Site no. : 1# 966 Chamber Data no. : 86
 Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : HORIZONTAL
 Limit : FCCPART 15C PEAK NII
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
 Engineer : Seven
 EUT : 8" Android Tablet
 Power : DC 5V From Adapter Input AC 120V/60Hz
 M/N : ONA19TB002
 Test Mode : IEEE 802.11a TX 5260MHz

	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	5260.00	32.72	4.95	35.56	89.32	91.43	68.20	-23.23	Peak
2	7426.00	37.05	6.13	33.11	39.44	49.51	74.00	24.49	Peak
3	9126.00	38.12	7.00	33.99	38.30	49.43	74.00	24.57	Peak
4	10520.00	39.32	9.60	34.10	34.15	48.97	68.20	19.23	Peak
5	13886.00	41.61	10.11	32.80	32.04	50.96	68.20	17.24	Peak
6	15780.00	38.56	10.72	32.18	31.37	48.47	74.00	25.53	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. Margin= Limit - Emission Level.
 3. The emission levels that are 20dB below the official limit are not reported.



Site no. : 1# 966 Chamber Data no. : 87
Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : HORIZONTAL
Limit : FCCPART 15C PEAK NII
Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
Engineer : Seven
EUT : 8" Android Tablet
Power : DC 5V From Adapter Input AC 120V/60Hz
M/N : ONA19TB002
Test Mode : IEEE 802.11a TX 5300MHz

	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	1714.00	25.95	2.72	34.81	49.72	43.58	68.20	24.62	Peak
2	5300.00	32.76	4.97	35.62	90.69	92.80	68.20	-24.60	Peak
3	8004.00	37.70	6.36	34.74	40.97	50.29	68.20	17.91	Peak
4	10600.00	39.42	9.35	34.00	34.01	48.78	68.20	19.42	Peak
5	13886.00	41.61	10.11	32.80	31.67	50.59	68.20	17.61	Peak
6	15900.00	38.15	10.65	32.10	33.19	49.89	74.00	24.11	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

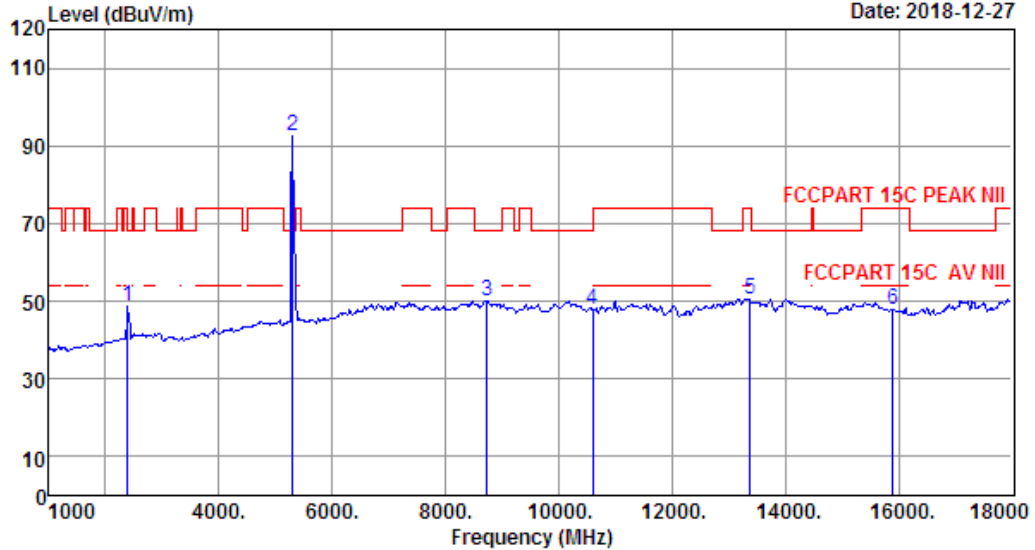
EST Technology

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

Data: 88

File: \\Emc-966-1\\test data\\2018\\EMC\\RFIC\\Chunghsin\\ONA19TB002.EM6 (174)

Date: 2018-12-27



Site no. : 1# 966 Chamber Data no. : 88
 Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : VERTICAL
 Limit : FCCPART 15C PEAK NII
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
 Engineer : Seven
 EUT : 8" Android Tablet
 Power : DC 5V From Adapter Input AC 120V/60Hz
 M/N : ONA19TB002
 Test Mode : IEEE 802.11a TX 5300MHz

	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	2394.00	27.35	3.21	34.87	52.88	48.57	68.20	19.63	Peak
2	5300.00	32.76	4.97	35.62	90.54	92.65	68.20	-24.45	Peak
3	8735.00	37.53	6.90	32.88	38.52	50.07	68.20	18.13	Peak
4	10600.00	39.42	9.35	34.00	32.97	47.74	68.20	20.46	Peak
5	13376.00	41.01	9.50	32.62	32.74	50.63	74.00	23.37	Peak
6	15900.00	38.15	10.65	32.10	31.11	47.81	74.00	26.19	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. Margin= Limit - Emission Level.
 3. The emission levels that are 20dB below the official limit are not reported.

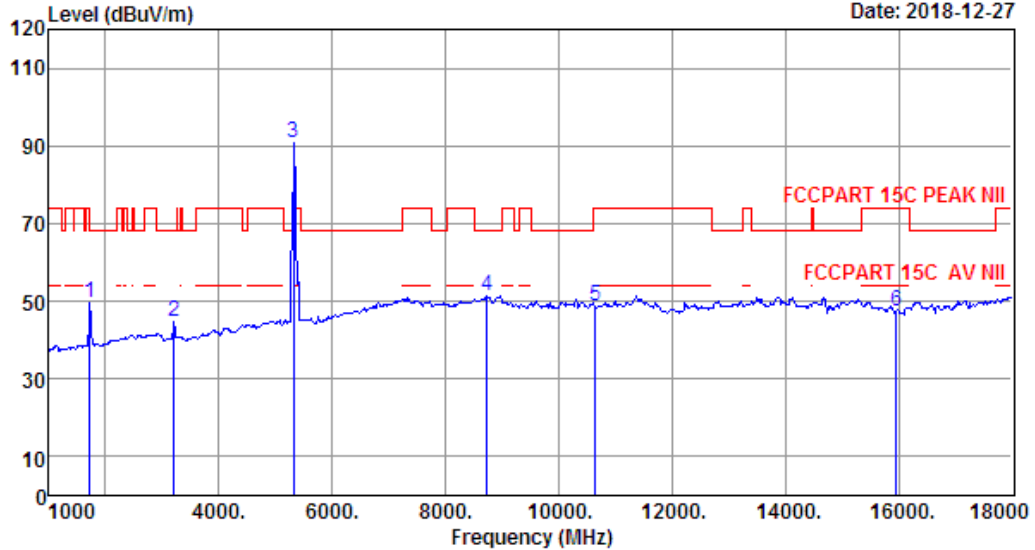
EST Technology

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

Data: 89

File: \\Emc-966-1\\test data\\2018\\EMC\\RFIC\\Chunghsin\\ONA19TB002.EM6 (174)

Date: 2018-12-27



Site no. : site Data no. : 89
 Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : VERTICAL
 Limit : FCCPART 15C PEAK NII
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
 Engineer : Seven
 EUT : 8" Android Tablet
 Power : DC 5V From Adapter Input AC 120V/60Hz
 M/N : ONA19TB002
 Test Mode : IEEE 802.11a TX 5320MHz

	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	1714.00	25.95	2.72	34.81	55.87	49.73	68.20	18.47	Peak
2	3210.00	28.81	3.72	37.01	49.18	44.70	68.20	23.50	Peak
3	5320.00	32.78	4.99	35.64	88.57	90.70	68.20	-22.50	Peak
4	8735.00	37.53	6.90	32.88	39.73	51.28	68.20	16.92	Peak
5	10640.00	39.47	9.25	33.95	33.74	48.51	74.00	25.49	Peak
6	15960.00	37.92	10.62	32.09	30.80	47.25	74.00	26.75	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. Margin= Limit - Emission Level.
 3. The emission levels that are 20dB below the official limit are not reported.

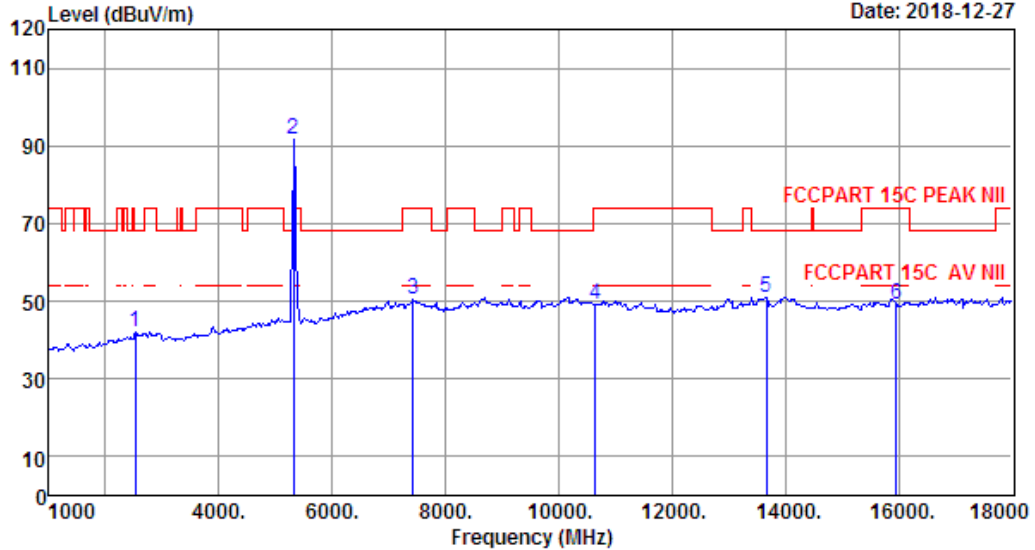
EST Technology

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

Data: 90

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Date: 2018-12-27



Site no. : 1# 966 Chamber Data no. : 90
 Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : HORIZONTAL
 Limit : FCCPART 15C PEAK NII
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
 Engineer : Seven
 EUT : 8" Android Tablet
 Power : DC 5V From Adapter Input AC 120V/60Hz
 M/N : ONA19TB002
 Test Mode : IEEE 802.11a TX 5320MHz

	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	2530.00	27.65	3.33	35.41	46.63	42.20	68.20	26.00	Peak
2	5320.00	32.78	4.99	35.64	89.71	91.84	68.20	-23.64	Peak
3	7426.00	37.05	6.13	33.11	40.34	50.41	74.00	23.59	Peak
4	10640.00	39.47	9.25	33.95	34.51	49.28	74.00	24.72	Peak
5	13665.00	41.43	9.89	32.62	32.23	50.93	68.20	17.27	Peak
6	15960.00	37.92	10.62	32.09	32.74	49.19	74.00	24.81	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. Margin= Limit - Emission Level.
 3. The emission levels that are 20dB below the official limit are not reported.

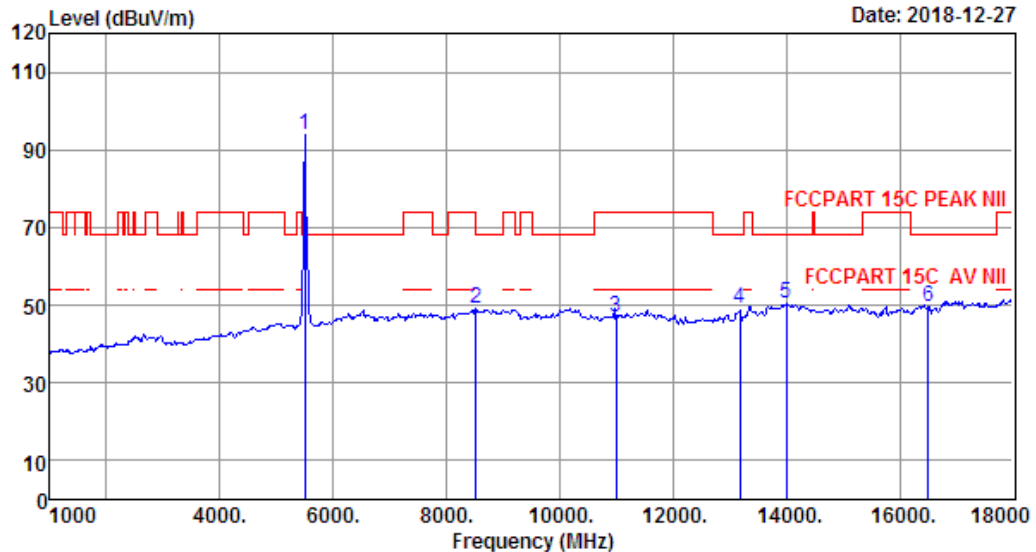
EST Technology

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

Data: 91

File: \\Emc-966-1\\test data\\2018\\EMC\\RFIC\\Chunghsin\\ONA19TB002.EM6 (174)

Date: 2018-12-27



Site no. : 1# 966 Chamber Data no. : 91
 Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : HORIZONTAL
 Limit : FCCPART 15C PEAK NII
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
 Engineer : Seven
 EUT : 8" Android Tablet
 Power : DC 5V From Adapter Input AC 120V/60Hz
 M/N : ONA19TB002
 Test Mode : IEEE 802.11a TX 5500MHz

	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	5500.00	33.00	5.11	35.84	91.68	93.95	68.20	-25.75	Peak
2	8514.00	37.22	6.90	33.67	38.50	48.95	68.20	19.25	Peak
3	11000.00	39.90	8.57	33.45	31.97	46.99	74.00	27.01	Peak
4	13189.00	40.56	9.25	32.64	31.96	49.13	68.20	19.07	Peak
5	14005.00	41.70	10.13	32.88	31.51	50.46	68.20	17.74	Peak
6	16500.00	37.80	10.54	31.83	33.11	49.62	68.20	18.58	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. Margin= Limit - Emission Level.
 3. The emission levels that are 20dB below the official limit are not reported.

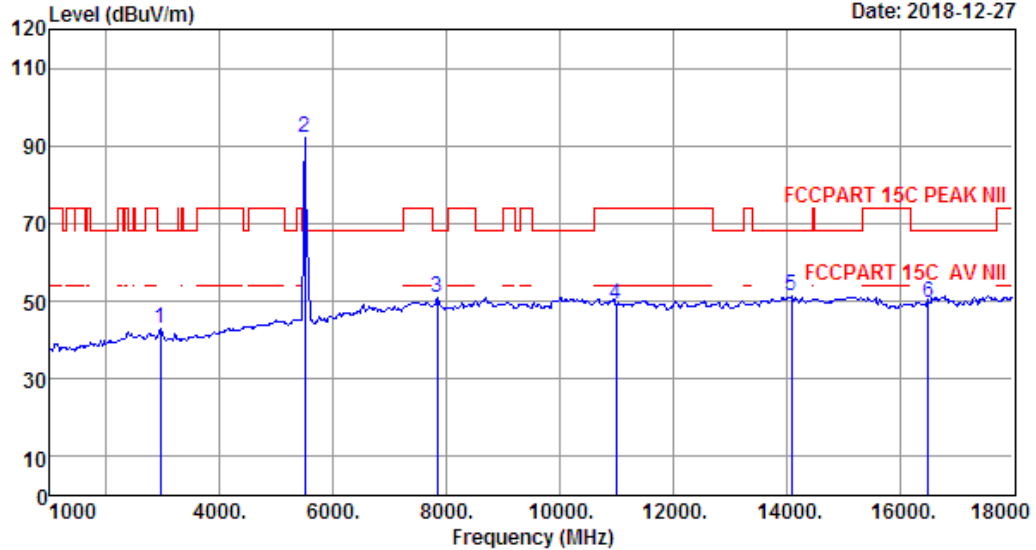
EST Technology

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

Data: 92

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Date: 2018-12-27



Site no. : 1# 966 Chamber Data no. : 92
 Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : VERTICAL
 Limit : FCCPART 15C PEAK NII
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
 Engineer : Seven
 EUT : 8" Android Tablet
 Power : DC 5V From Adapter Input AC 120V/60Hz
 M/N : ONA19TB002
 Test Mode : IEEE 802.11a TX 5500MHz

	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	2955.00	28.32	3.60	36.97	47.96	42.91	68.20	25.29	Peak
2	5500.00	33.00	5.11	35.84	89.64	91.91	68.20	-23.71	Peak
3	7834.00	37.53	6.27	34.01	40.97	50.76	68.20	17.44	Peak
4	11000.00	39.90	8.57	33.45	34.23	49.25	74.00	24.75	Peak
5	14090.00	41.61	10.14	32.99	32.50	51.26	68.20	16.94	Peak
6	16500.00	37.80	10.54	31.83	33.30	49.81	68.20	18.39	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. Margin= Limit - Emission Level.
 3. The emission levels that are 20dB below the official limit are not reported.

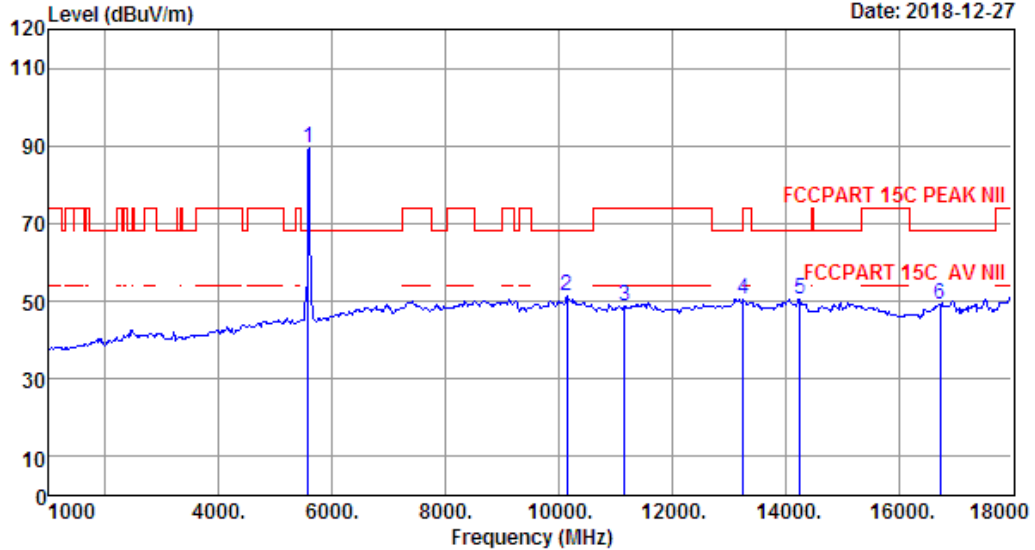
EST Technology

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

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Date: 2018-12-27



Site no. : 1# 966 Chamber Data no. : 93
 Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : VERTICAL
 Limit : FCCPART 15C PEAK NII
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
 Engineer : Seven
 EUT : 8" Android Tablet
 Power : DC 5V From Adapter Input AC 120V/60Hz
 M/N : ONA19TB002
 Test Mode : IEEE 802.11a TX 5580MHz

	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	5580.00	33.07	5.14	35.92	87.37	89.66	68.20	-21.46	Peak
2	10146.00	39.16	9.48	34.51	37.05	51.18	68.20	17.02	Peak
3	11160.00	39.97	8.45	33.16	33.38	48.64	74.00	25.36	Peak
4	13257.00	40.72	9.34	32.67	33.28	50.67	74.00	23.33	Peak
5	14260.00	41.44	10.16	33.20	32.16	50.56	68.20	17.64	Peak
6	16740.00	39.59	10.51	31.49	30.65	49.26	68.20	18.94	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. Margin= Limit - Emission Level.
 3. The emission levels that are 20dB below the official limit are not reported.

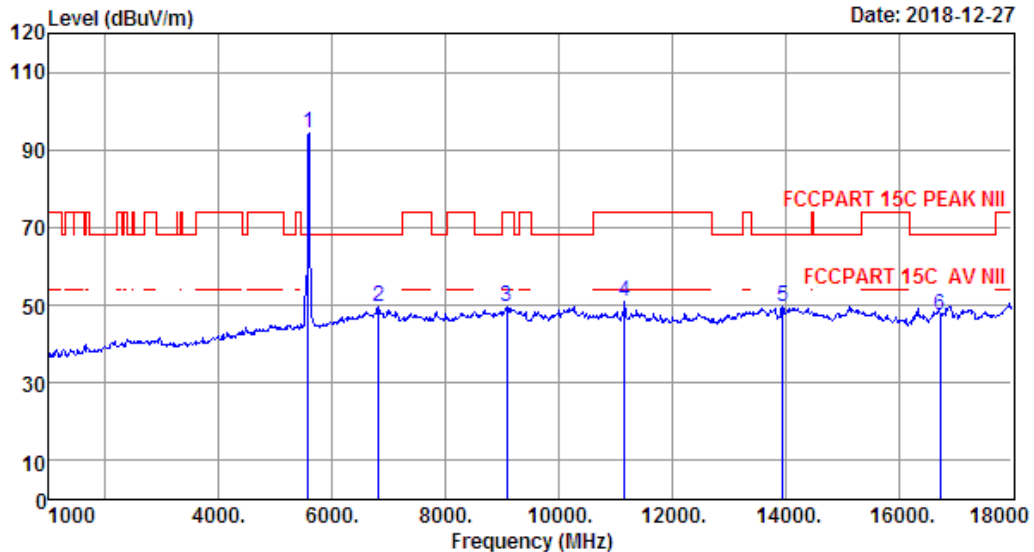
EST Technology

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

Data: 94

File: \\Emc-966-1\\test data\\2018\\EMC\\RFIC\\Chunghsin\\ONA19TB002.EM6 (174)

Date: 2018-12-27



Site no. : 1# 966 Chamber Data no. : 94
 Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : HORIZONTAL
 Limit : FCCPART 15C PEAK NII
 Env. / Ins. : Temp:23.6'; Humi:56%; Press:101.52kPa
 Engineer : Seven
 EUT : 8" Android Tablet
 Power : DC 5V From Adapter Input AC 120V/60Hz
 M/N : ONA19TB002
 Test Mode : IEEE 802.11a TX 5580MHz

	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	5580.00	33.07	5.14	35.92	92.10	94.39	68.20	-26.19	Peak
2	6814.00	35.76	5.75	34.29	42.20	49.42	68.20	18.78	Peak
3	9075.00	38.02	6.98	33.83	38.33	49.50	74.00	24.50	Peak
4	11160.00	39.97	8.45	33.16	35.77	51.03	74.00	22.97	Peak
5	13954.00	41.66	10.12	32.84	30.55	49.49	68.20	18.71	Peak
6	16740.00	39.59	10.51	31.49	28.95	47.56	68.20	20.64	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. Margin= Limit - Emission Level.
 3. The emission levels that are 20dB below the official limit are not reported.

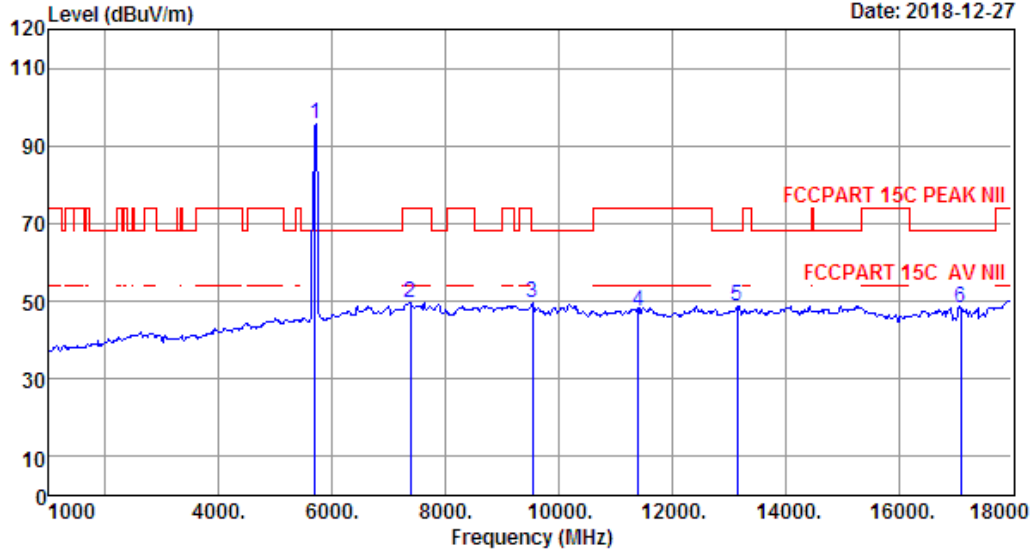
EST Technology

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

Data: 95

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Date: 2018-12-27



Site no. : 1# 966 Chamber Data no. : 95
 Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : HORIZONTAL
 Limit : FCCPART 15C PEAK NII
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
 Engineer : Seven
 EUT : 8" Android Tablet
 Power : DC 5V From Adapter Input AC 120V/60Hz
 M/N : ONA19TB002
 Test Mode : IEEE 802.11a TX 5700MHz

	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	5700.00	33.19	5.18	35.95	93.36	95.78	68.20	-27.58	Peak
2	7375.00	36.93	6.11	33.19	39.77	49.62	74.00	24.38	Peak
3	9534.00	38.82	7.49	35.15	38.49	49.65	68.20	18.55	Peak
4	11400.00	40.06	8.29	32.71	31.68	47.32	74.00	26.68	Peak
5	13155.00	40.47	9.20	32.62	31.63	48.68	68.20	19.52	Peak
6	17100.00	41.88	10.63	31.22	26.80	48.09	68.20	20.11	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. Margin= Limit - Emission Level.
 3. The emission levels that are 20dB below the official limit are not reported.

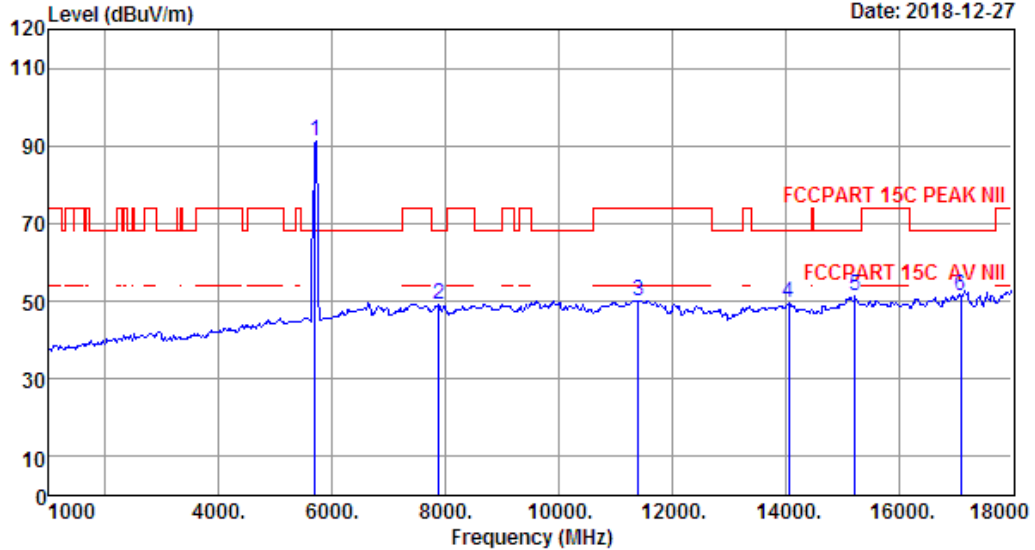
EST Technology

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

Data: 96

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Date: 2018-12-27



Site no. : 1# 966 Chamber Data no. : 96
 Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : VERTICAL
 Limit : FCCPART 15C PEAK NII
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
 Engineer : Seven
 EUT : 8" Android Tablet
 Power : DC 5V From Adapter Input AC 120V/60Hz
 M/N : ONA19TB002
 Test Mode : IEEE 802.11a TX 5700MHz

	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	5700.00	33.19	5.18	35.95	88.97	91.39	68.20	-23.19	Peak
2	7885.00	37.58	6.30	34.23	39.54	49.19	68.20	19.01	Peak
3	11400.00	40.06	8.29	32.71	34.44	50.08	74.00	23.92	Peak
4	14056.00	41.65	10.13	32.95	30.94	49.77	68.20	18.43	Peak
5	15229.00	39.94	11.00	32.95	33.18	51.17	68.20	17.03	Peak
6	17100.00	41.88	10.63	31.22	30.17	51.46	68.20	16.74	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. Margin= Limit - Emission Level.
 3. The emission levels that are 20dB below the official limit are not reported.

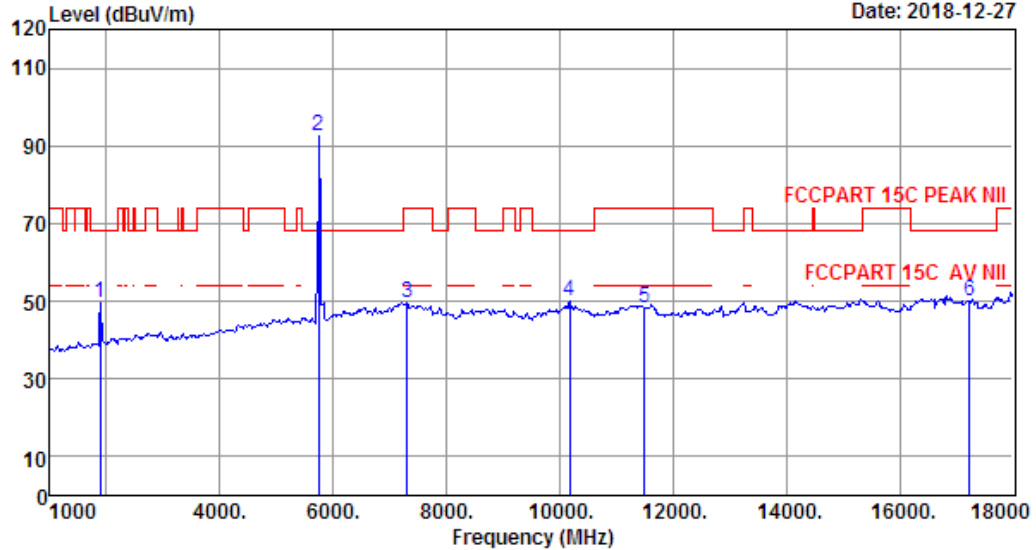
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Chilingxiang, Qishantou, Santun,
Houjie, Dongguan, Guangdong, China
Tel: +86-769-83081888
Fax: +86-769-83081878

Data: 97

File: \\Emc-966-1\\test data\\2018\\EMC\\RFIC\\Chunghsin\\ONA19TB002.EM6 (174)

Date: 2018-12-27



Site no. : 1# 966 Chamber Data no. : 97
 Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : VERTICAL
 Limit : FCCPART 15C PEAK NII
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
 Engineer : Seven
 EUT : 8" Android Tablet
 Power : DC 5V From Adapter Input AC 120V/60Hz
 M/N : ONA19TB002
 Test Mode : IEEE 802.11a TX 5745MHz

	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	1884.00	26.21	2.82	34.83	55.40	49.60	68.20	18.60	Peak
2	5745.00	33.24	5.20	35.91	90.20	92.73	68.20	-24.53	Peak
3	7307.00	36.78	6.09	33.31	40.14	49.70	74.00	24.30	Peak
4	10180.00	39.17	9.62	34.47	35.66	49.98	68.20	18.22	Peak
5	11490.00	40.09	8.28	32.55	32.57	48.39	74.00	25.61	Peak
6	17235.00	42.39	10.94	31.21	27.84	49.96	68.20	18.24	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. Margin= Limit - Emission Level.
 3. The emission levels that are 20dB below the official limit are not reported.

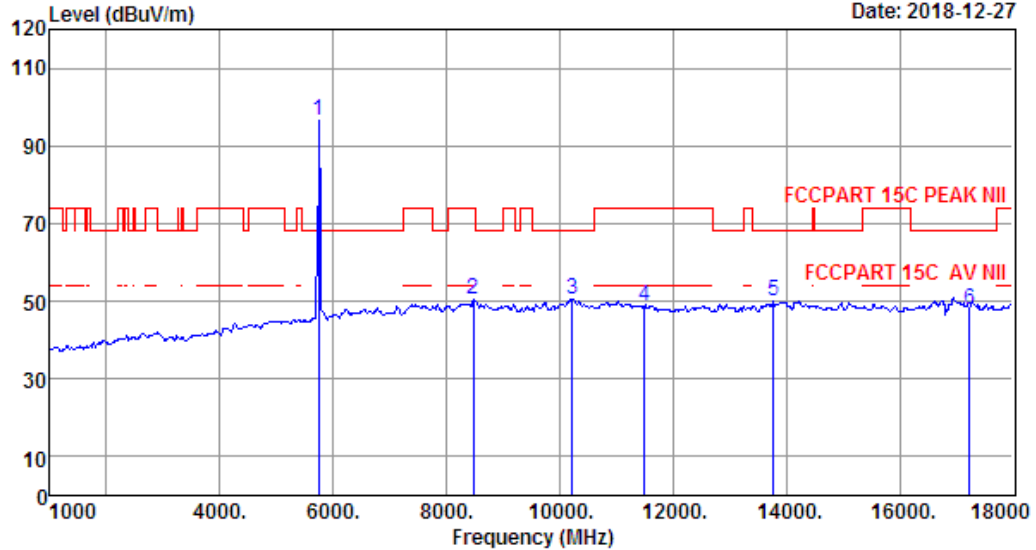
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Chilingxiang, Qishantou, Santun,
Houjie, Dongguan, Guangdong, China
Tel: +86-769-83081888
Fax: +86-769-83081878

Data: 98

File: \\Emc-966-1\\test data\\2018\\EMC\\RFIC\\Chunghsin\\ONA19TB002.EM6 (174)

Date: 2018-12-27



Site no. : 1# 966 Chamber Data no. : 98
 Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : HORIZONTAL
 Limit : FCCPART 15C PEAK NII
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
 Engineer : Seven
 EUT : 8" Android Tablet
 Power : DC 5V From Adapter Input AC 120V/60Hz
 M/N : ONA19TB002
 Test Mode : IEEE 802.11a TX 5745MHz

	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	5745.00	33.24	5.20	35.91	93.82	96.35	68.20	-28.15	Peak
2	8480.00	37.22	6.90	33.78	39.99	50.33	74.00	23.67	Peak
3	10214.00	39.19	9.77	34.43	35.84	50.37	68.20	17.83	Peak
4	11490.00	40.09	8.28	32.55	32.98	48.80	74.00	25.20	Peak
5	13767.00	41.51	10.03	32.70	31.08	49.92	68.20	18.28	Peak
6	17235.00	42.39	10.94	31.21	25.69	47.81	68.20	20.39	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. Margin= Limit - Emission Level.
 3. The emission levels that are 20dB below the official limit are not reported.

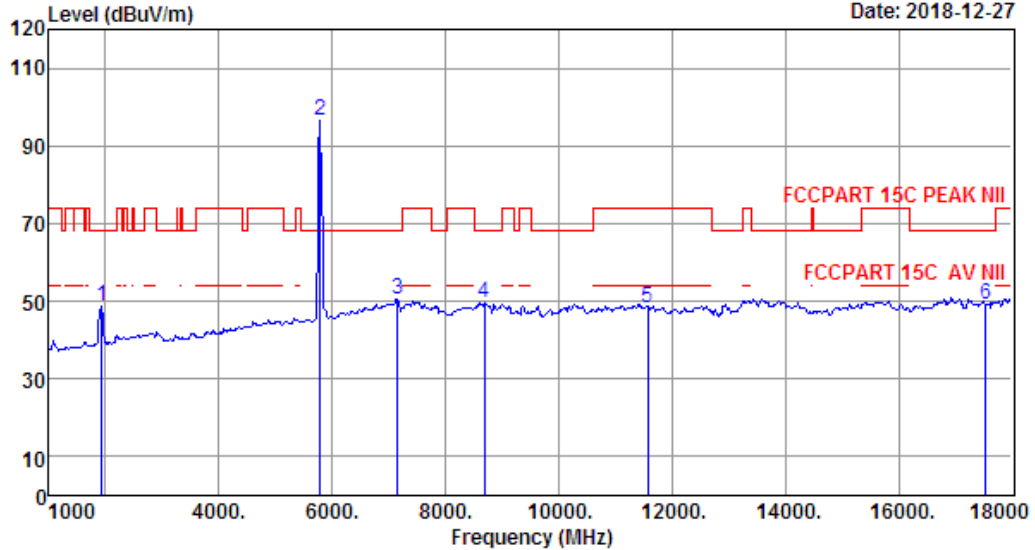
EST Technology

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

Data: 99

File: \\Emc-966-1\\test data\\2018\\EMC\\RFIC\\Chunghsin\\ONA19TB002.EM6 (174)

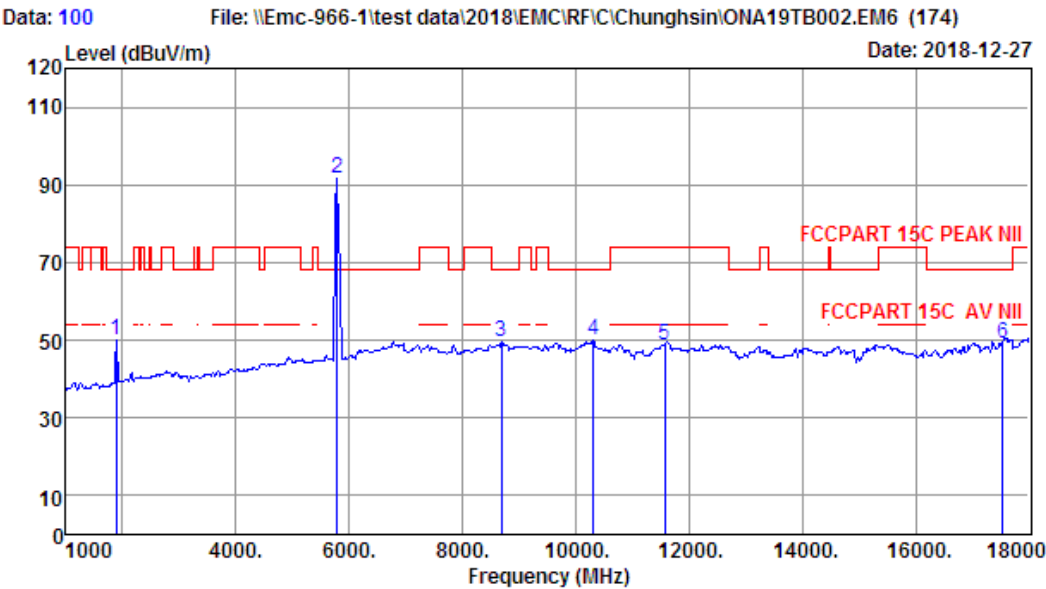
Date: 2018-12-27



Site no. : 1# 966 Chamber Data no. : 99
 Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : HORIZONTAL
 Limit : FCCPART 15C PEAK NII
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
 Engineer : Seven
 EUT : 8" Android Tablet
 Power : DC 5V From Adapter Input AC 120V/60Hz
 M/N : ONA19TB002
 Test Mode : IEEE 802.11a TX 5785MHz

	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	1935.00	26.29	2.87	34.79	54.28	48.65	68.20	19.55	Peak
2	5785.00	33.28	5.26	35.86	93.74	96.42	68.20	-28.22	Peak
3	7154.00	36.44	5.95	33.53	41.63	50.49	68.20	17.71	Peak
4	8684.00	37.46	6.90	33.06	38.32	49.62	68.20	18.58	Peak
5	11570.00	40.00	8.26	32.42	32.29	48.13	74.00	25.87	Peak
6	17535.00	43.49	11.63	31.18	25.34	49.28	68.20	18.92	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. Margin= Limit - Emission Level.
 3. The emission levels that are 20dB below the official limit are not reported.



Site no. : 1# 966 Chamber Data no. : 100
Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : VERTICAL
Limit : FCCPART 15C PEAK NII
Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
Engineer : Seven
EUT : 8" Android Tablet
Power : DC 5V From Adapter Input AC 120V/60Hz
M/N : ONA19TB002
Test Mode : IEEE 802.11a TX 5785MHz

	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	1884.00	26.21	2.82	34.83	55.62	49.82	68.20	18.38	Peak
2	5785.00	33.28	5.26	35.86	89.04	91.72	68.20	-23.52	Peak
3	8684.00	37.46	6.90	33.06	38.37	49.67	68.20	18.53	Peak
4	10316.00	39.23	10.20	34.34	34.94	50.03	68.20	18.17	Peak
5	11570.00	40.00	8.26	32.42	33.01	48.85	74.00	25.15	Peak
6	17535.00	43.49	11.63	31.18	25.41	49.35	68.20	18.85	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

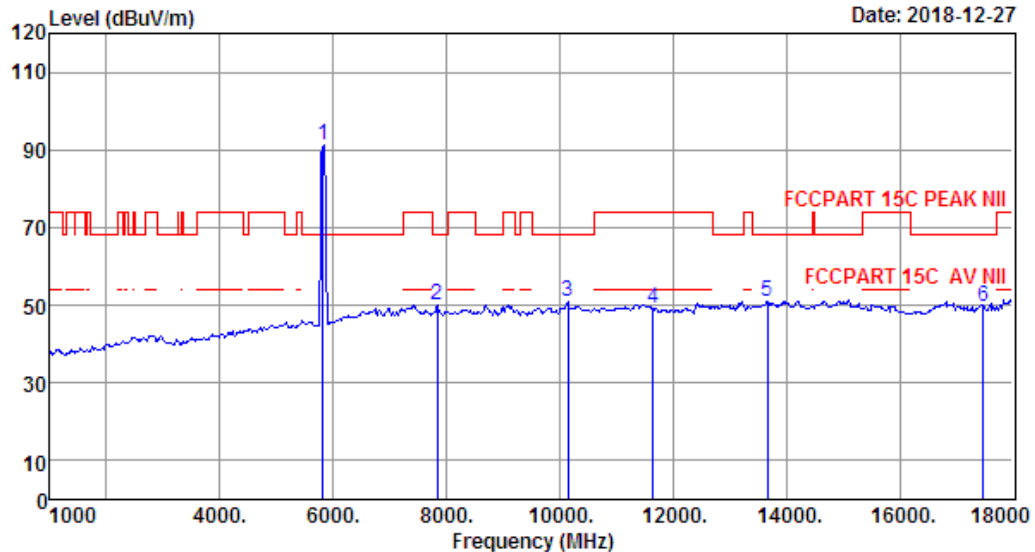
EST Technology

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

Data: 101

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Date: 2018-12-27



Site no. : 1# 966 Chamber Data no. : 101
 Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : VERTICAL
 Limit : FCCPART 15C PEAK NII
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
 Engineer : Seven
 EUT : 8" Android Tablet
 Power : DC 5V From Adapter Input AC 120V/60Hz
 M/N : ONA19TB002
 Test Mode : IEEE 802.11a TX 5825MHz

	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	5825.00	33.33	5.35	35.83	88.26	91.11	68.20	-22.91	Peak
2	7834.00	37.53	6.27	34.01	40.13	49.92	68.20	18.28	Peak
3	10146.00	39.16	9.48	34.51	36.95	51.08	68.20	17.12	Peak
4	11650.00	39.91	8.25	32.37	33.40	49.19	74.00	24.81	Peak
5	13665.00	41.43	9.89	32.62	32.41	51.11	68.20	17.09	Peak
6	17475.00	43.27	11.48	31.08	26.06	49.73	68.20	18.47	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. Margin= Limit - Emission Level.
 3. The emission levels that are 20dB below the official limit are not reported.

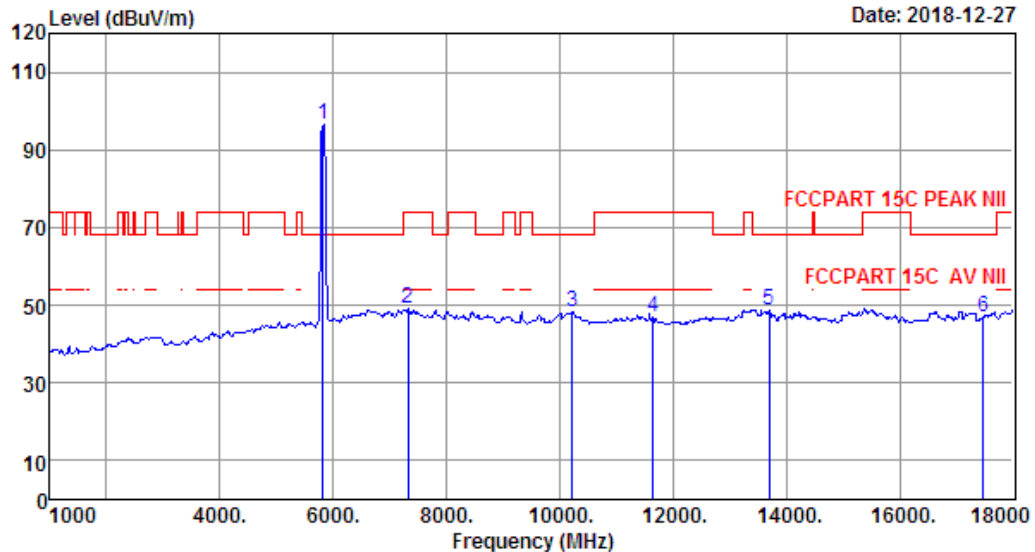
EST Technology

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

Data: 102

File: \\Emc-966-1\\test data\\2018\\EMC\\RFIC\\Chunghsin\\ONA19TB002.EM6 (174)

Date: 2018-12-27



Site no. : 1# 966 Chamber Data no. : 102
 Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : HORIZONTAL
 Limit : FCCPART 15C PEAK NII
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
 Engineer : Seven
 EUT : 8" Android Tablet
 Power : DC 5V From Adapter Input AC 120V/60Hz
 M/N : ONA19TB002
 Test Mode : IEEE 802.11a TX 5825MHz

	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	5825.00	33.33	5.35	35.83	93.61	96.46	68.20	-28.26	Peak
2	7324.00	36.82	6.10	33.28	39.38	49.02	74.00	24.98	Peak
3	10214.00	39.19	9.77	34.43	33.79	48.32	68.20	19.88	Peak
4	11650.00	39.91	8.25	32.37	31.11	46.90	74.00	27.10	Peak
5	13699.00	41.46	9.94	32.65	30.09	48.84	68.20	19.36	Peak
6	17475.00	43.27	11.48	31.08	23.23	46.90	68.20	21.30	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. Margin= Limit - Emission Level.
 3. The emission levels that are 20dB below the official limit are not reported.

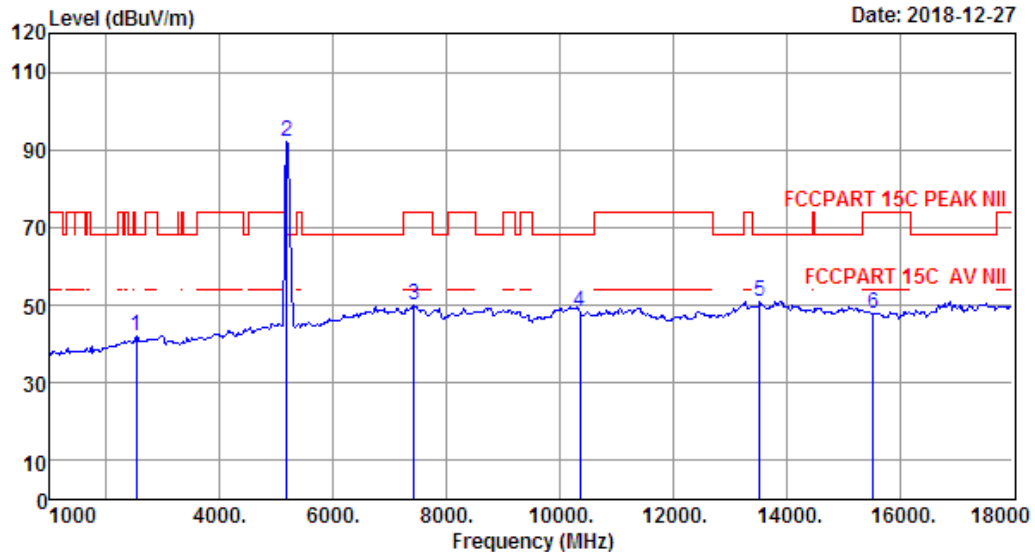
EST Technology

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

Data: 103

File: \\Emc-966-1\\test data\\2018\\EMC\\RFIC\\Chunghsin\\ONA19TB002.EM6 (174)

Date: 2018-12-27



Site no. : 1# 966 Chamber Data no. : 103
 Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : HORIZONTAL
 Limit : FCCPART 15C PEAK NII
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
 Engineer : Seven
 EUT : 8" Android Tablet
 Power : DC 5V From Adapter Input AC 120V/60Hz
 M/N : ONA19TB002
 Test Mode : IEEE 802.11n HT20 TX 5180MHz

	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	2530.00	27.65	3.33	35.41	46.61	42.18	68.20	26.02	Peak
2	5180.00	32.62	4.89	35.48	89.88	91.91	68.20	-23.71	Peak
3	7426.00	37.05	6.13	33.11	39.88	49.95	74.00	24.05	Peak
4	10360.00	39.25	10.05	34.28	33.29	48.31	68.20	19.89	Peak
5	13529.00	41.33	9.71	32.55	32.61	51.10	68.20	17.10	Peak
6	15540.00	39.38	10.84	32.34	29.87	47.75	74.00	26.25	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. Margin= Limit - Emission Level.
 3. The emission levels that are 20dB below the official limit are not reported.

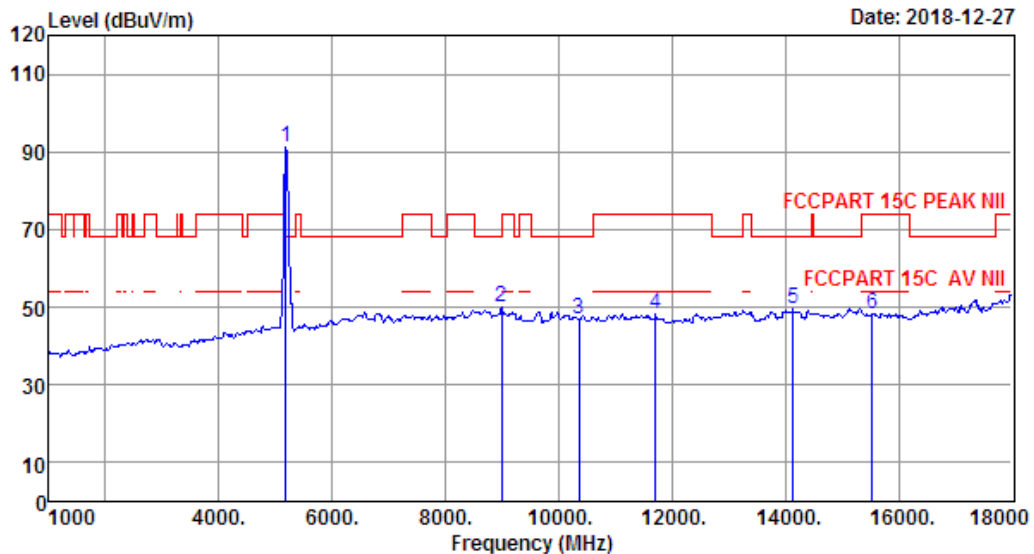
EST Technology

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

Data: 104

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Date: 2018-12-27



Site no. : 1# 966 Chamber Data no. : 104
 Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : VERTICAL
 Limit : FCCPART 15C PEAK NII
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
 Engineer : Seven
 EUT : 8" Android Tablet
 Power : DC 5V From Adapter Input AC 120V/60Hz
 M/N : ONA19TB002
 Test Mode : IEEE 802.11n HT20 TX 5180MHz

	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	5180.00	32.62	4.89	35.48	89.15	91.18	68.20	-22.98	Peak
2	8990.00	37.88	6.94	33.62	38.72	49.92	68.20	18.28	Peak
3	10360.00	39.25	10.05	34.28	31.78	46.80	68.20	21.40	Peak
4	11710.00	39.81	8.24	32.40	32.46	48.11	74.00	25.89	Peak
5	14141.00	41.56	10.15	33.06	30.91	49.56	68.20	18.64	Peak
6	15540.00	39.38	10.84	32.34	30.20	48.08	74.00	25.92	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. Margin= Limit - Emission Level.
 3. The emission levels that are 20dB below the official limit are not reported.

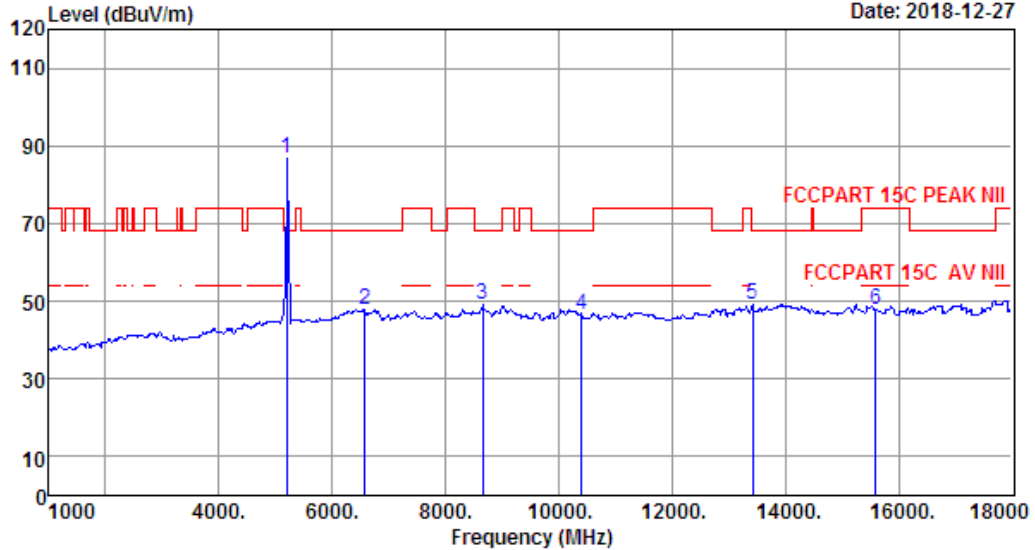
EST Technology

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

Data: 105

File: \\Emc-966-1\\test data\\2018\\EMC\\RFIC\\Chunghsin\\ONA19TB002.EM6 (174)

Date: 2018-12-27



Site no. : site Data no. : 105
 Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : VERTICAL
 Limit : FCCPART 15C PEAK NII
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
 Engineer : Seven
 EUT : 8" Android Tablet
 Power : DC 5V From Adapter Input AC 120V/60Hz
 M/N : ONA19TB002
 Test Mode : IEEE 802.11n HT20 TX 5200MHz

	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	5200.00	32.64	4.90	35.50	84.58	86.62	68.20	-18.42	Peak
2	6576.00	35.32	5.70	34.94	41.96	48.04	68.20	20.16	Peak
3	8650.00	37.41	6.90	33.18	37.83	48.96	68.20	19.24	Peak
4	10400.00	39.26	9.95	34.24	31.54	46.51	68.20	21.69	Peak
5	13427.00	41.13	9.57	32.60	30.94	49.04	68.20	19.16	Peak
6	15600.00	39.15	10.80	32.30	29.99	47.64	74.00	26.36	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. Margin= Limit - Emission Level.
 3. The emission levels that are 20dB below the official limit are not reported.

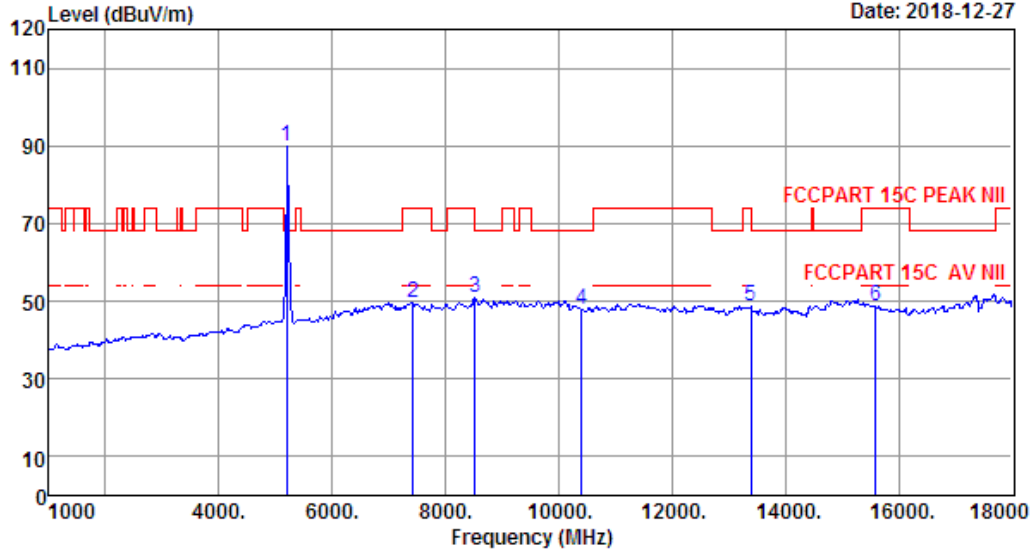
EST Technology

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

Data: 106

File: \\Emc-966-1\\test data\\2018\\EMC\\RFIC\\Chunghsin\\ONA19TB002.EM6 (174)

Date: 2018-12-27



Site no. : 1# 966 Chamber Data no. : 106
 Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : HORIZONTAL
 Limit : FCCPART 15C PEAK NII
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
 Engineer : Seven
 EUT : 8" Android Tablet
 Power : DC 5V From Adapter Input AC 120V/60Hz
 M/N : ONA19TB002
 Test Mode : IEEE 802.11n HT20 TX 5200MHz

	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	5200.00	32.64	4.90	35.50	87.72	89.76	68.20	-21.56	Peak
2	7426.00	37.05	6.13	33.11	39.57	49.64	74.00	24.36	Peak
3	8514.00	37.22	6.90	33.67	40.25	50.70	68.20	17.50	Peak
4	10400.00	39.26	9.95	34.24	32.94	47.91	68.20	20.29	Peak
5	13393.00	41.05	9.52	32.61	30.63	48.59	74.00	25.41	Peak
6	15600.00	39.15	10.80	32.30	30.97	48.62	74.00	25.38	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. Margin= Limit - Emission Level.
 3. The emission levels that are 20dB below the official limit are not reported.

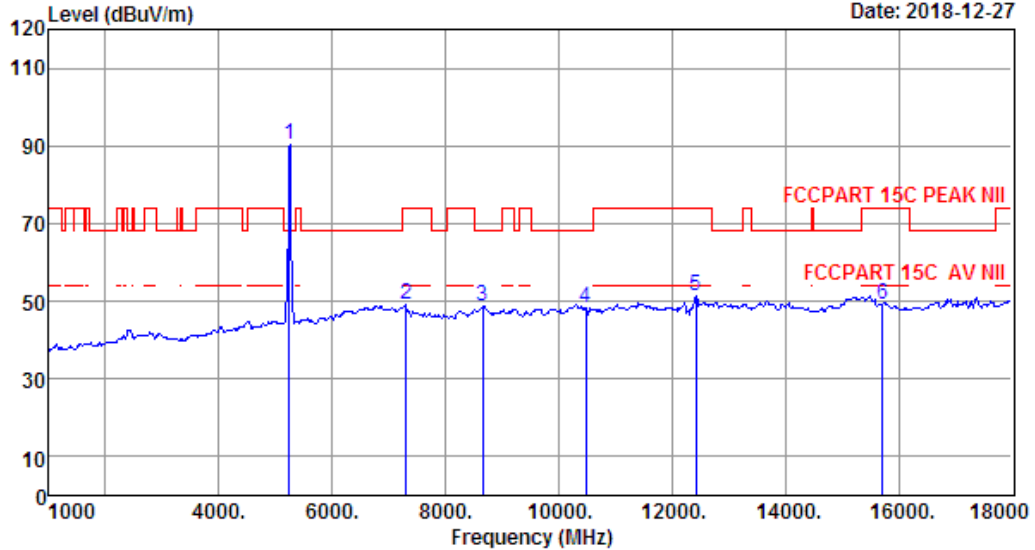
EST Technology

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

Data: 107

File: \\Emc-966-1\\test data\\2018\\EMC\\RFIC\\Chunghsin\\ONA19TB002.EM6 (174)

Date: 2018-12-27



Site no. : 1# 966 Chamber Data no. : 107
 Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : HORIZONTAL
 Limit : FCCPART 15C PEAK NII
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
 Engineer : Seven
 EUT : 8" Android Tablet
 Power : DC 5V From Adapter Input AC 120V/60Hz
 M/N : ONA19TB002
 Test Mode : IEEE 802.11n HT20 TX 5240MHz

	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	5240.00	32.68	4.93	35.54	88.13	90.20	68.20	-22.00	Peak
2	7307.00	36.78	6.09	33.31	39.71	49.27	74.00	24.73	Peak
3	8650.00	37.41	6.90	33.18	37.50	48.63	68.20	19.57	Peak
4	10480.00	39.29	9.70	34.16	33.49	48.32	68.20	19.88	Peak
5	12424.00	39.31	8.53	32.68	36.05	51.21	74.00	22.79	Peak
6	15720.00	38.74	10.74	32.22	32.07	49.33	74.00	24.67	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. Margin= Limit - Emission Level.
 3. The emission levels that are 20dB below the official limit are not reported.