

FCC

RF

TEST REPORT

ISSUED BY
Shenzhen BALUN Technology Co., Ltd.



FOR
Smart POS Terminal

ISSUED TO
NEW POS TECHNOLOGY LIMITED

14/A, Financial Technology Building, Financial & Technology Building,
No.11, Keyuan Rd, Nanshan District, ShenZhen, China



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Date

Jun. 01, 2018

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Date

Jun. 01, 2018

Report No.: BL-SZ1840014-604

EUT Name: Smart POS Terminal

Model Name: NEW9220

Brand Name: NEWPOS

Test Standard: 47 CFR Part 15 Subpart E

FCC ID: WAL9220

Test Conclusion: Pass

Test Date: Apr. 04, 2018 ~ May 11, 2018

Date of Issue: Jun. 01, 2018

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Revision History

Version	Issue Date	Revisions Content
<u>Rev. 01</u>	<u>May 18, 2018</u>	<u>Initial Issue</u>
<u>Rev. 02</u>	<u>Jun. 01, 2018</u>	<u>Revise the value of 6dB bandwidth on page 30. Add the average value of bandedge test on page 54-57.</u>

TABLE OF CONTENTS

1	ADMINISTRATIVE DATA (GENERAL INFORMATION)	4
1.1	Identification of the Testing Laboratory	4
1.2	Identification of the Responsible Testing Location	4
1.3	Laboratory Condition	4
1.4	Announce	4
2	PRODUCT INFORMATION	5
2.1	Applicant	5
2.2	Manufacturer	5
2.3	Factory	5
2.4	General Description for Equipment under Test (EUT)	5
2.5	Ancillary Equipment	6
2.6	Technical Information	6
2.7	Additional Instructions	7
2.8	Channel List	8
3	SUMMARY OF TEST RESULTS	10
3.1	Test Standards	10
3.2	Verdict	10
4	GENERAL TEST CONFIGURATIONS	11
4.1	Test Environments	11
4.2	Test Equipment List	11
4.3	Measurement Uncertainty	12
4.4	Description of Test Setup	13
5	TEST ITEMS	16
5.1	RF Output Power	16
5.2	Emission Bandwidth and 6 dB Bandwidth	17

5.3	Power Spectral density (PSD).....	17
5.4	Conducted Emission	19
5.5	Conducted Spurious Emission and Band Edge (Authorized-band)	20
5.6	Radiated Spurious Emissions and Band Edge (Restricted-band).....	22
5.7	Frequency Stability.....	27
ANNEX A	TEST RESULT	28
A.1	RF Output Power	28
A.2	Emission Bandwidth & 99% Bandwidth	29
A.3	6 dB Bandwidth	30
A.4	Power Spectral Density	31
A.5	Conducted Emissions	32
A.6	Conducted Spurious Emission and Band Edge (Authorized-band)	34
A.7	Radiated Spurious Emissions and Band Edge (Restricted-band).....	35
A.8	Frequency Stability.....	62
ANNEX B	TEST SETUP PHOTOS	64
ANNEX C	EUT EXTERNAL PHOTOS	64
ANNEX D	EUT INTERNAL PHOTOS	64

1 ADMINISTRATIVE DATA (GENERAL INFORMATION)

1.1 Identification of the Testing Laboratory

Company Name	Shenzhen BALUN Technology Co., Ltd.
Address	Block B, 1st FL, Baisha Science and Technology Park, Shahe Xi Road, Nanshan District, Shenzhen, Guangdong Province, P. R. China
Phone Number	+86 755 6685 0100

1.2 Identification of the Responsible Testing Location

Test Location	Shenzhen BALUN Technology Co., Ltd.
Address	Block B, 1st FL, Baisha Science and Technology Park, Shahe Xi Road, Nanshan District, Shenzhen, Guangdong Province, P. R. China
Accreditation Certificate	The laboratory has been listed by Industry Canada to perform electromagnetic emission measurements. The recognition numbers of test site are 11524A-1. The laboratory is a testing organization accredited by FCC as a accredited testing laboratory. The designation number is CN1196. The laboratory is a testing organization accredited by American Association for Laboratory Accreditation(A2LA) according to ISO/IEC 17025.The accreditation certificate is 4344.01. The laboratory is a testing organization accredited by China National Accreditation Service for Conformity Assessment (CNAS) according to ISO/IEC 17025. The accreditation certificate number is L6791.
Description	All measurement facilities used to collect the measurement data are located at Block B, FL 1, Baisha Science and Technology Park, Shahe Xi Road, Nanshan District, Shenzhen, Guangdong Province, P. R. China 518055

1.3 Laboratory Condition

Ambient Temperature	20°C to 25°C
Ambient Relative Humidity	45% to 55%
Ambient Pressure	100 kPa to 102 kPa

1.4 Announce

- (1) The test report reference to the report template version v4.2.
- (2) The test report is invalid if not marked with the signatures of the persons responsible for preparing and approving the test report.
- (3) The test report is invalid if there is any evidence and/or falsification.
- (4) The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein.
- (5) This document may not be altered or revised in any way unless done so by BALUN and all revisions are duly noted in the revisions section.
- (6) Content of the test report, in part or in full, cannot be used for publicity and/or promotional purposes without prior written approval from the laboratory.

2 PRODUCT INFORMATION

2.1 Applicant

Applicant	NEW POS TECHNOLOGY LIMITED
Address	14/A, Financial Technology Building, Financial & Technology Building, No.11, Keyuan Rd, Nanshan District, ShenZhen, China

2.2 Manufacturer

Manufacturer	NEW POS TECHNOLOGY LIMITED
Address	14/A, Financial Technology Building, Financial & Technology Building, No.11, Keyuan Rd, Nanshan District, ShenZhen, China

2.3 Factory

Factory	NEW POS TECHNOLOGY LIMITED DONGGUAN BRANCH, China
Address	No.8 Xintoulong Rd, Pingshan 188 Industry District, Tangxia Town, Dongguan, China

2.4 General Description for Equipment under Test (EUT)

EUT Type	Smart POS Terminal
Model Name Under Test	NEW9220
Series Model Name	N/A
Description of Model name differentiation	N/A
Hardware Version	N0000H30226E0
Software Version	V1.0.1
Network and Wireless connectivity	2G Network GPRS/EDGE 850/1900 MHz 3G Network WCDMA Band 2/4/5 4G Network FDD LTE Band 5/7 Bluetooth 4.1 (BR+EDR+BLE) WIFI 802.11a,802.11b, 802.11g and 802.11n (HT20/40) GPS, NFC

2.5 Ancillary Equipment

Ancillary Equipment 1	Battery	
	Brand Name	IES
	Model No.	IS928
	Serial No.	N/A
	Capacity	2600 mAh
	Rated Voltage	7.2 V
	Limit Charge Voltage	8.4 V
Ancillary Equipment 2	Adapter	
	Brand Name	
	Model No.	ADS-12AM-06 05010EPCU
	Serial No.	N/A
	Rated Input	100-240 V~, 0.3 A, 50/60 Hz
	Rated Output	5 V= 2 A
Note: Two batteries are tested, only the worst test data as the main in this report.		

2.6 Technical Information

Frequency Range	Band I: 5150 MHz to 5250 MHz, Band IV: 5725 MHz to 5850 MHz
Product Type	☐ Mobile ☒ Portable ☐ Fix Location
Modulation technology	OFDM
Modulation Type	256QAM, 64QAM, 16QAM, BPSK, QPSK
Product Type	Indoor for IC standard Mobile and portable for FCC standard
Transfer Rate (Mbps) (Single RF path)	802.11a: 54/ 48/ 36 / 24 / 18/12 / 9/ 6 Mbps 802.11n: up to 150 Mbps
Channel Bandwidth	802.11a: 20 MHz 802.11n: 20 MHz, 40 MHz
Maximum Output Power	Band I: 10.93 dBm Band IV: 11.63 dBm
Antenna Type	PIFA Antenna
Antenna Gain	Band I: 5150 MHz to 5250 MHz: 1.5 dBi Band IV: 5725 MHz to 5850 MHz: 1.5 dBi
About the Product	The equipment is Smart POS Terminal, intended for used with information technology equipment.

2.7 Additional Instructions

Mode	☒ Special software is used. The software provided by client to enable the EUT under transmission condition continuously at specific channel frequencies individually.
------	--

During testing, Channel and Power Controlling Software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product.

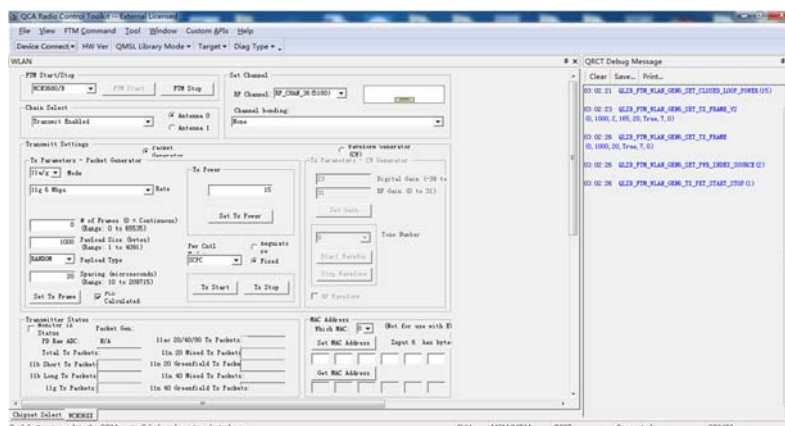
EUT Software Settings:

Test Software Version	QRCT3		
Support Units (Software installation media)	Description	Manufacturer	Model
	Laptop	Lenovo	X220

Band I (5150 - 5250 MHz) Power level setup in software			
Mode	Channel	Frequency (MHz)	Soft Set
11a	CH36	5180	13.0
11a	CH44	5220	13.0
11a	CH48	5240	13.0
11n (HT20)	CH36	5180	13.5
11n (HT20)	CH44	5220	13.5
11n (HT20)	CH48	5240	13.0
11n (HT40)	CH38	5190	13.0
11n (HT40)	CH46	5230	13.0

Band IV (5725 - 5850 MHz) Power level setup in software			
Mode	Channel	Frequency (MHz)	Soft Set
11a	CH149	5745	13.0
11a	CH157	5785	13.0
11a	CH165	5825	13.0
11n (HT20)	CH149	5745	13.5
11n (HT20)	CH157	5785	13.5
11n (HT20)	CH165	5825	13.0
11n (HT40)	CH151	5755	13.0
11n (HT40)	CH159	5795	13.0

Run Software



2.8 Channel List

20 MHz		40 MHz	
Channel Number	Frequency (MHz)	Channel Number	Frequency (MHz)
36	5180	38	5190
40	5200	46	5230
44	5220	151	5755
48	5240	159	5795
149	5745		
153	5765		
157	5785		
161	5805		
165	5825		

Note: Until further notice, devices subject to this section shall not be capable of transmitting in the band 5600-5650 MHz. This restriction is for the protection of weather radars operating in this band.

The Lowest frequency, the middle frequency and the highest frequency of channel were selected to perform the test, and the selected channel see below:

For 802.11a/n(HT20)

Band I (5150 - 5250 MHz)			Band IV (5725 - 5850 MHz)		
Channel Number	Channel Number	Channel Number	Channel Number	Channel	Frequency (MHz)
36	Low	5180	149	Low	5745
44	Mid	5220	157	Mid	5785
48	High	5240	165	High	5825

For 802.11n (HT40)

Band I (5150 - 5250 MHz)			Band IV (5725 - 5850 MHz)		
Channel Number	Channel Number	Channel Number	Channel Number	Channel	Frequency (MHz)
38	Low	5190	151	Low	5755
46	High	5230	159	High	5795

Note: Preliminary tests were performed in different data rate in above table to find the worst radiated emission. The data rate shown in the table below is the worst-case rate with respect to the specific test item. Investigation has been done on all the possible configurations for searching the worst cases. The following table is a list of the test modes shown in this test report.

Test Items	Mode	Data Rate	Modulation Type	Band I	Band IV
				Channel	Channel
RF Output Power	11a	6	BPSK	48/44/36	165/157/149
	11n(20 MHz)	6.5		48/44/36	165/157/149
	11n(40 MHz)	13.5		46/38	159/151
Emission Bandwidth & 99% Occupied Bandwidth	11a	6	BPSK	48/44/36	165/157/149
	11n(20 MHz)	6.5		48/44/36	165/157/149
	11n(40 MHz)	13.5		46/38	159/151
6 dB bandwidth	11a	6	BPSK	N/A	165/157/149
	11n(20 MHz)	6.5		N/A	165/157/149
	11n(40 MHz)	13.5		N/A	159/151
Power Spectral Density	11a	6	BPSK	48/44/36	165/157/149
	11n(20 MHz)	6.5		48/44/36	165/157/149
	11n(40 MHz)	13.5		46/38	159/151
Conducted Spurious Emission and Band Edge (Authorized-band)	11a	6	BPSK	48/44/36	165/157/149
	11n(20 MHz)	6.5		48/44/36	165/157/149
	11n(40 MHz)	13.5		46/38	159/151
Radiated Spurious Emissions	11a	6	BPSK	48/44/36	165/157/149
	11n(20 MHz)	6.5		48/44/36	165/157/149
	11n(40 MHz)	13.5		46/38	159/151
Band Edge (Restricted-band)	11a	6	BPSK	48/36	165/149
	11n(20 MHz)	6.5		48/36	165/149
	11n(40 MHz)	13.5		46/38	159/151
Frequency Stability	Unmodulated	N/A	N/A	N/A	N/A

3 SUMMARY OF TEST RESULTS

3.1 Test Standards

No.	Identity	Document Title
1	47 CFR Part 15 Subpart E (10-1-16 Edition)	Unlicensed National Information Infrastructure Devices
2	KDB Publication 789033 D02v01r04	Guidelines for Compliance Testing of Unlicensed National Information Infrastructure (U-NII) Devices Part 15, Subpart E
3	ANSI C63.10-2013	American National Standard for Testing Unlicensed Wireless Devices

3.2 Verdict

No.	Description	FCC Part No.	Test Result	Verdict
1	Antenna Requirement	15.203	--	Pass ^{Note1}
2	RF Output Power	15.407(a)	ANNEX A.1	Pass
3	Emission Bandwidth & 99% Occupied Bandwidth	15.407(a)	ANNEX A.2	Pass
4	6 dB bandwidth	15.407(e)	ANNEX A.3	Pass
5	Power Spectral Density	15.407(a)	ANNEX A.4	Pass
6	Conducted Emission	15.207	ANNEX A.5	Pass
7	Conducted Spurious Emission and Band Edge (Authorized-band)	15.407(b) 15.209	ANNEX A.6	Pass
8	Radiated Spurious Emissions and Band Edge (Restricted-band)	15.407(b)	ANNEX A.7	Pass
9	Frequency Stability	15.407(g)	ANNEX A.8	Pass
10	Receiver Spurious Emissions	--	--	N/A ^{Note2}
Note ¹: The EUT has a permanently and irreplaceable attached antenna, which complies with the requirement FCC 15.203. Note ²: Only radio communication receivers operating in stand-alone mode within the band 30-960 MHz, as well as scanner receivers, are subject to Industry Canada requirements, so this test is not applicable				

4 GENERAL TEST CONFIGURATIONS

4.1 Test Environments

During the measurement, the normal environmental conditions were within the listed ranges:

Relative Humidity	45% to 55%	
Atmospheric Pressure	100 kPa to 102 kPa	
Temperature	NT (Normal Temperature)	+22°C to +25°C
	LT (Low Temperature)	0°C
	HT (High Temperature)	+50°C
Working Voltage of the EUT	NV (Normal Voltage)	7.2 V
	LV (Low Voltage)	6.5 V
	HV (High Voltage)	8.0 V

4.2 Test Equipment List

Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due
Spectrum Analyzer	ROHDE&SCHWARZ	FSV-30	103118	2017.06.12	2018.06.11
Switch Unit with OSP-B157	ROHDE&SCHWARZ	OSP120	101270	2017.06.12	2018.06.11
EMI Receiver	KEYSIGHT	N9038A	MY53220118	2017.09.07	2018.09.06
EMI Receiver	ROHDE&SCHWARZ	ESRP	101036	2017.06.22	2018.06.21
LISN	SCHWARZBECK	NSLK 8127	8127-687	2017.06.22	2018.06.21
Bluetooth Tester	ROHDE&SCHWARZ	CBT	101005	2017.06.12	2018.06.11
Power Splitter	KMW	DCPD-LDC	1305003215	--	--
Power Sensor	ROHDE&SCHWARZ	NRP-Z21	103971	2017.06.12	2018.06.11
Attenuator (20 dB)	KMW	ZA-S1-201	110617091	--	--
Attenuator (6 dB)	KMW	ZA-S1-61	1305003189	--	--
DC Power Supply	ROHDE&SCHWARZ	HMP2020	018141664	2017.06.22	2018.06.21
Temperature Chamber	ANGELANTIONI SCIENCE	NTH64-40A	1310	2017.06.22	2018.06.21
Test Antenna- Loop(9 kHz-30 MHz)	SCHWARZBECK	FMZB 1519	1519-037	2017.06.22	2018.06.21
Test Antenna- Bi-Log(30 MHz-3 GHz)	SCHWARZBECK	VULB 9163	9163-624	2017.11.07	2019.11.08
Test Antenna- Horn(1-18 GHz)	SCHWARZBECK	BBHA 9120D	9120D-1148	2017.07.22	2019.07.21
Test Antenna- Horn(15-26.5 GHz)	SCHWARZBECK	BBHA 9170	9170-305	2016.07.12	2018.07.11
Test Antenna- Horn (18-40 GHz)	A-INFO	LB- 180400KF	J211060273	2017.01.07	2019.01.06
Anechoic Chamber	RAINFORD	9m*6m*6m	N/A	2017.02.21	2019.02.20
Anechoic Chamber	EMC Electronic Co., Ltd	20.10*11.60 *7.35m	N/A	2016.08.09	2018.08.08
Shielded Enclosure	ChangNing	CN-130701	130703	--	--
Signal Generator	ROHDE&SCHWARZ	SMB100A	177746	2017.06.12	2018.06.11
Power Amplifier	OPHIR RF	5225F	1037	2018.02.17	2019.02.16

Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due
Power Amplifier	OPHIR RF	5273F	1016	2018.02.17	2019.02.16
Directional Coupler	Werlantone	C5982-10	109275	N/A	N/A
Directional Coupler	Werlantone	CHP-273E	S00801z-01	N/A	N/A
Feld Strength Meter	Narda	EP601	511WX51129	2017.05.22	2018.05.21
Mouth Simulator	B&K	4227	2423931	2017.11.16	2018.11.15
Sound Calibrator	B&K	4231	2430337	2017.11.16	2018.11.15
Sound Level Meter	B&K	NL-20	00844023	2017.11.16	2018.11.15
Ear Simulator	B&K	4185	2409449	2017.11.16	2018.11.15
Ear Simulator	B&K	4195	2418189	2017.11.16	2018.11.15
Audio analyzer	B&K	UPL 16	100129	2017.11.16	2018.11.15

4.3 Measurement Uncertainty

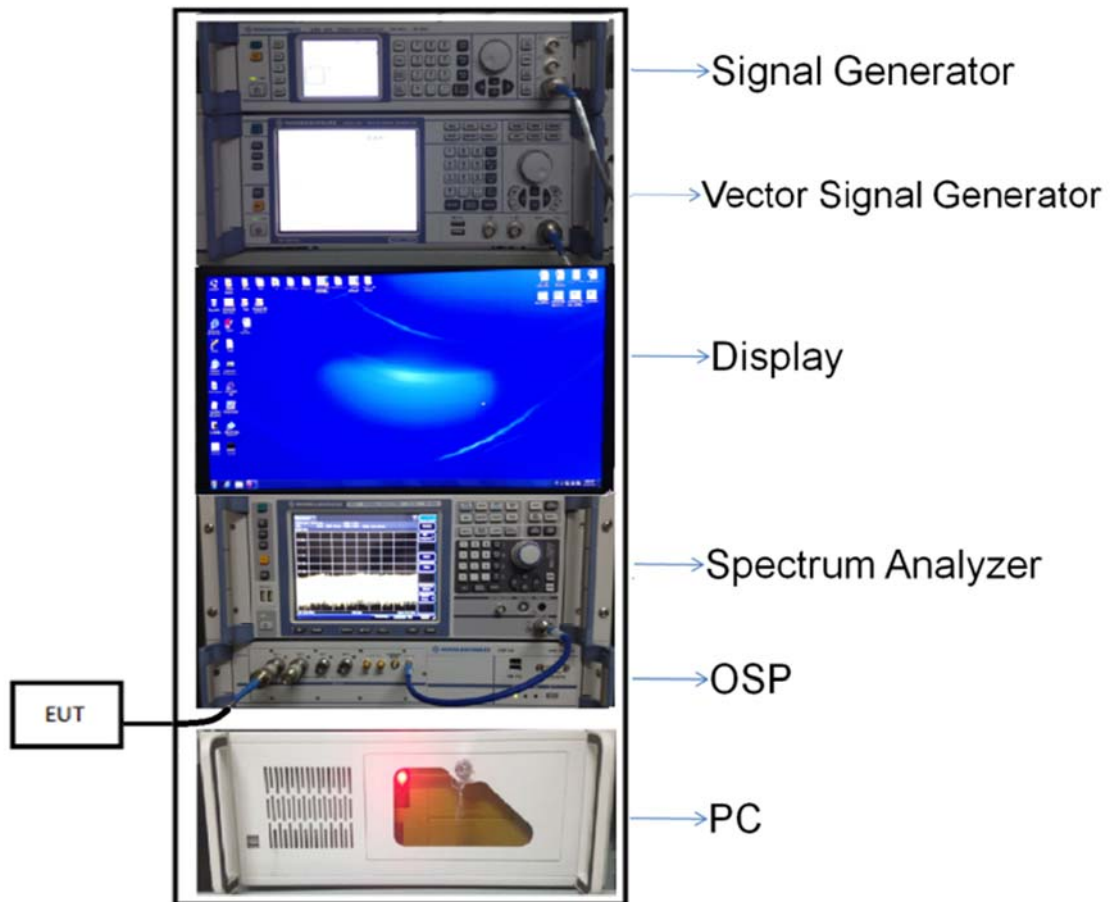
The following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2.

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

Measurement	Value
Occupied Channel Bandwidth	±4%
RF output power, conducted	±1.4 dB
Power Spectral Density, conducted	±2.5 dB
Unwanted Emissions, conducted	±2.8 dB
All emissions, radiated	±5.4 dB
Temperature	±1°C
Humidity	±4%

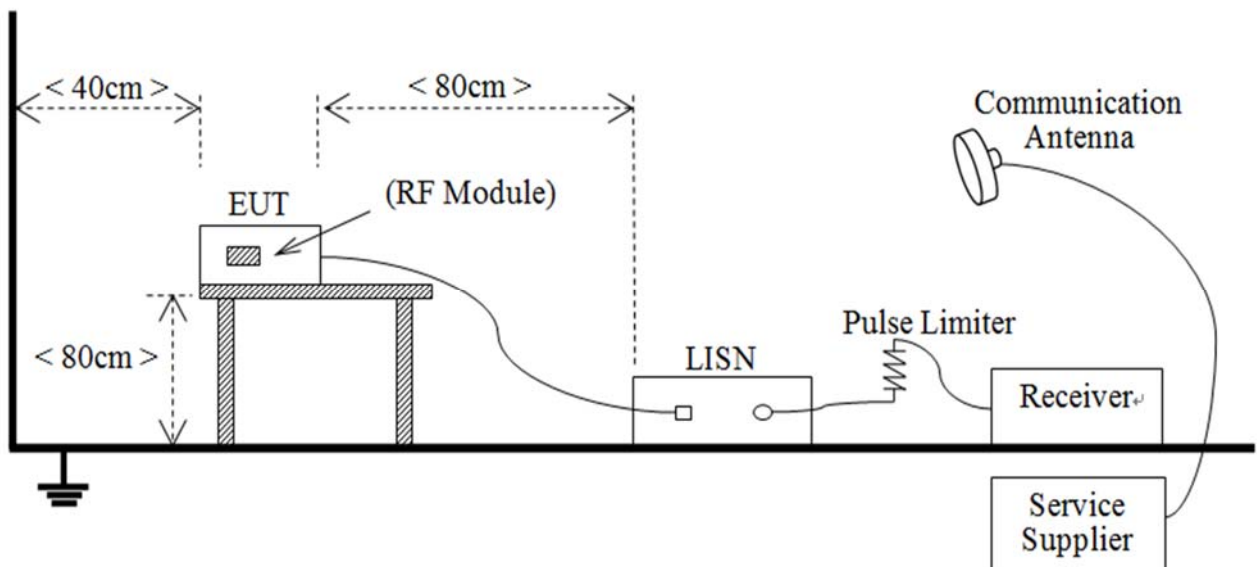
4.4 Description of Test Setup

4.4.1 For Antenna Port Test



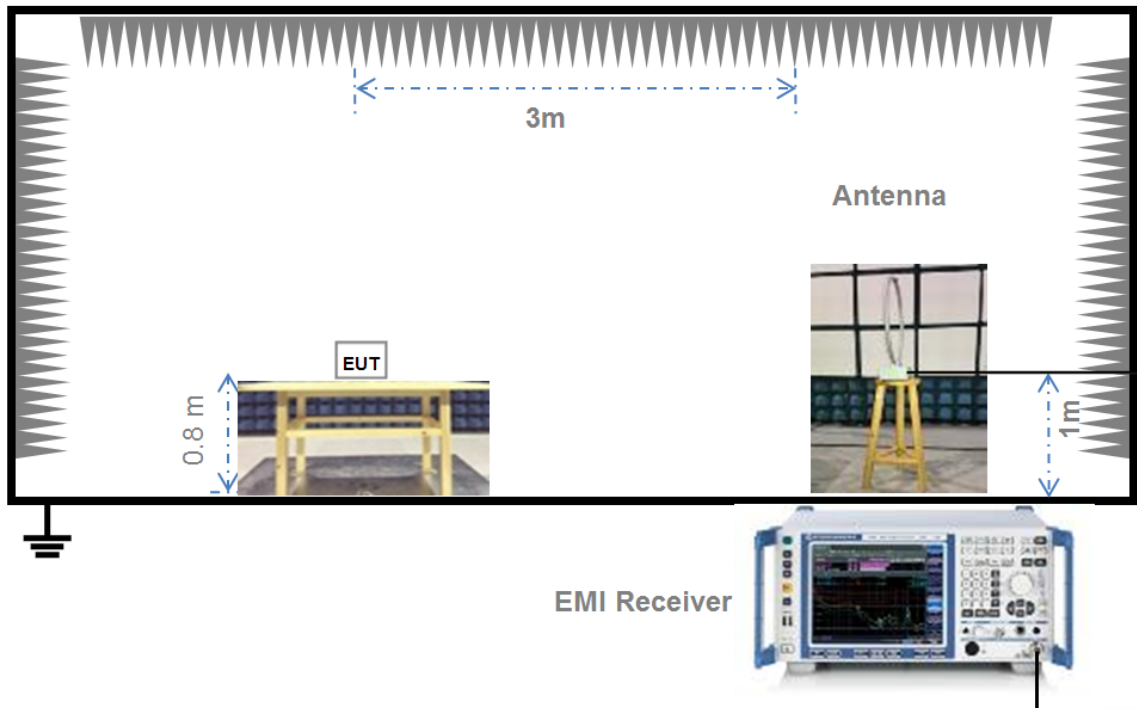
(Diagram 1)

4.4.2 For AC Power Supply Port Test



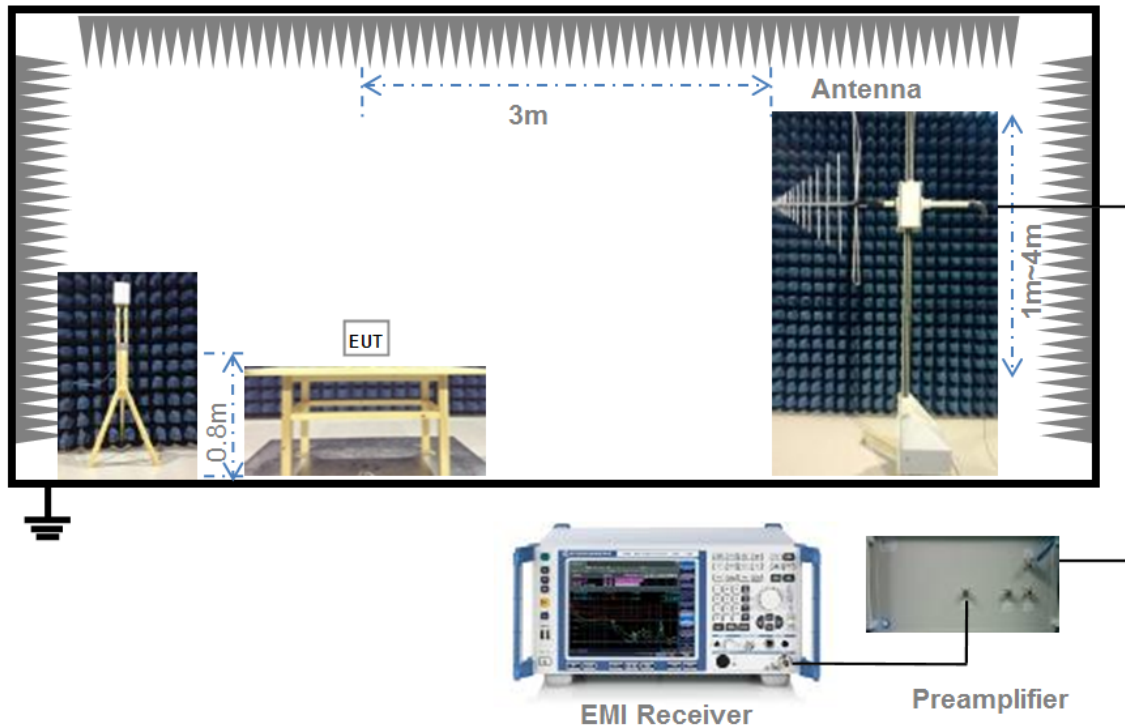
(Diagram 2)

4.4.3 For Radiated Test (Below 30 MHz)



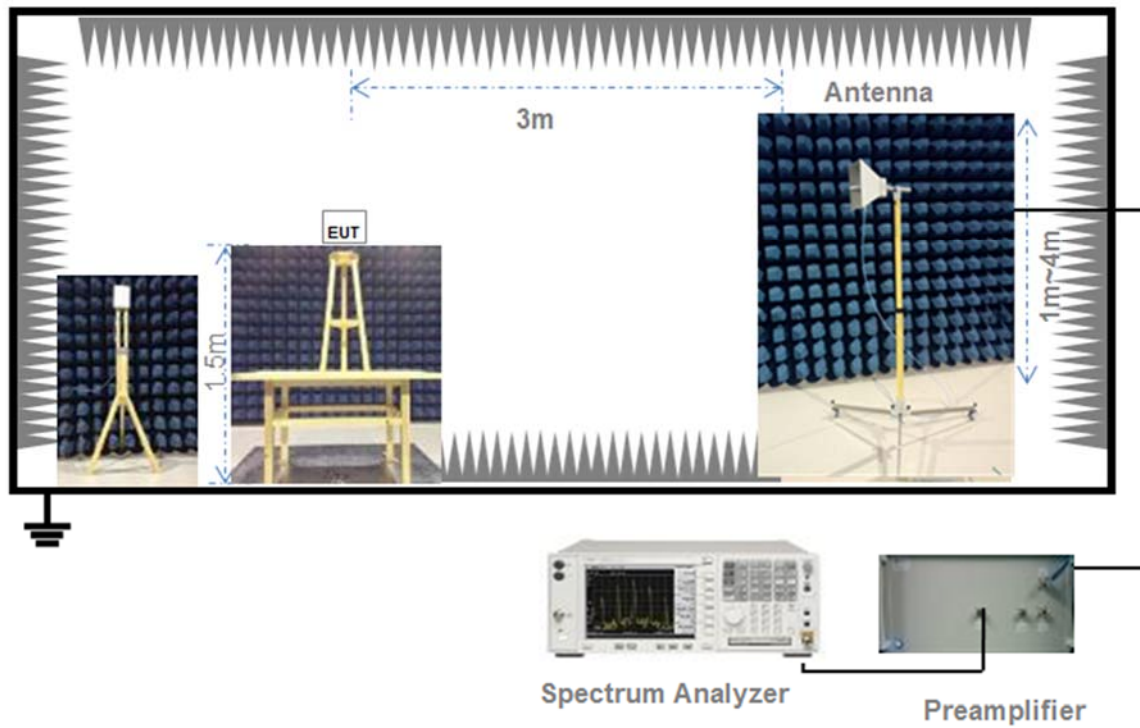
(Diagram 3)

4.4.4 For Radiated Test (30 MHz-1 GHz)



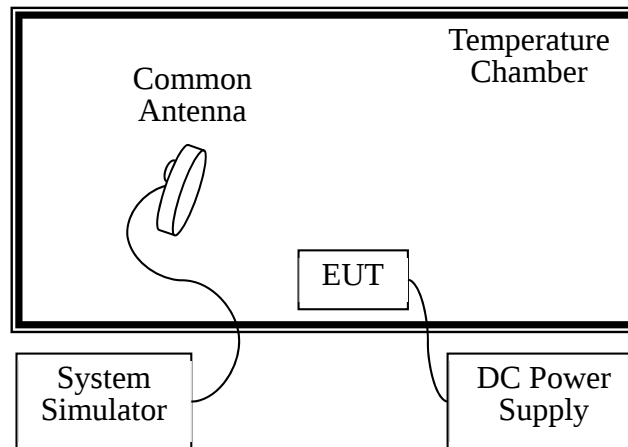
(Diagram 4)

4.4.5 For Radiated Test (Above 1 GHz)



(Diagram 5)

4.4.6 For Frequency Stability Test



(Diagram 6)

5 TEST ITEMS

5.1 RF Output Power

5.1.1 Test Limit

FCC §15.407(a)

The maximum conducted output power should not exceed:

Frequency Band (MHz)	Limit
5150-5250	250 mW
5250-5350	250 mW or 11 dBm + 10log B, whichever is less.
5470-5725	250 mW or 11 dBm + 10log B, whichever is less.
5725-5850	1 W
Note: Where "B" is the 26 dB emissions bandwidth in MHz.	

RSS-247, 6.2

The maximum conducted output power shall not exceed:

Frequency Band (MHz)	Limit
5150-5250	N/A
5250-5350	250 mW or 11 dBm + 10log B, whichever is less.
5470-5725	250 mW or 11 dBm + 10log B, whichever is less.
5725-5850	1 W
Note: Where "B" is the 99% emissions bandwidth in MHz.	

The maximum e.i.r.p. shall not exceed:

Frequency Band (MHz)	Limit
5150-5250	200 mW or 10 dBm + 10log B, whichever is less.
5250-5350	1W or 17 dBm + 10log B, whichever is less.
5470-5725	1W or 17 dBm + 10log B, whichever is less.
5725-5850	N/A
Note: Where "B" is the 99% emissions bandwidth in MHz.	

5.1.2 Test Setup

The section 4.4.1 (Diagram 1) test setup description was used for this test. The photo of test setup please refer to ANNEX B.

5.1.3 Test Procedure

The maximum peak conducted output power may be measured using a broadband Average RF power meter. The power meter shall have a video bandwidth that is greater than or equal to the emission bandwidth and utilize a fast-responding diode detector.

The E.I.R.P used radiated test method. At a test site that has been validated using the procedures of ANSI C63.4 or the latest CISPR 16-1-4 for measurements above 1 GHz, so as to simulate a near free-space environment.

5.1.4 Test Result

Please refer to ANNEX A.1.

5.2 Emission Bandwidth and 6 dB Bandwidth

5.2.1 Limit

FCC §15.407(a), RSS-247, 6.2

Within the 5.725-5.85 GHz band, the minimum 6 dB bandwidth of U-NII devices shall be at least 500 kHz.

5.2.2 Test Setup

The test setup photo please refer to 4.4.1 (Diagram 1) test setup description was used for this test. The photo of test setup please refer to ANNEX B.

5.2.3 Test Procedure

Emission bandwidth

1. Set RBW = approximately 1% of the emission bandwidth.
2. Set VBW $\geq 3 \times$ RBW,
3. Detector = Peak.
4. Trace mode = Max hold.
5. Measure the maximum width of the emission that is 26 dB down from the peak of the emission.

Occupied Bandwidth

1. Set Span = 1.5 times to 5.0 times the OBW
2. Set RBW = 1% to 5% of the OBW.
3. Set VBW $\geq 3 \times$ RBW, Detector = Peak.
4. Trace mode = Max hold.
5. Use the 99% power bandwidth function of the instrument.

6 dB bandwidth

1. Set RBW = 100 kHz, VBW = 300 kHz.
2. Detector = Peak. Trace mode = Max hold.
3. Allow the trace to stabilize.
4. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

5.2.4 Test Result

Please refer to ANNEX A.2 and ANNEX A.3.

5.3 Power Spectral density (PSD)

5.3.1 Limit

FCC §15.407(a)

The maximum power spectral density should not exceed:

Frequency Band (MHz)	Limit
5150-5250	11 dBm/MHz
5250-5350	11 dBm/MHz
5470-5725	11 dBm/MHz
5725-5850	30 dBm/500kHz

RSS-247, 6.2

The maximum power spectral density should not exceed:

Frequency Band (MHz)	Limit
5150-5250	N/A
5250-5350	11 dBm/MHz
5470-5725	11 dBm/MHz
5725-5850	30 dBm/500kHz

The e.i.r.p. spectral density should not exceed:

Frequency Band (MHz)	Limit
5150-5250	10 dBm/MHz
5250-5350	N/A
5470-5725	N/A
5725-5850	N/A

5.3.2 Test Setup

The section 4.4.1 (Diagram 1) test setup description was used for this test. The photo of test setup please refer to ANNEX B.

5.3.3 Test Procedure

Set the spectrum analyzer or EMI receiver span to view the entire emission bandwidth.

1. Set RBW = 510 kHz/1 MHz, VBW $\geq 3 \times$ RBW, Sweep time = Auto, Detector = RMS.
2. Allow the sweeps to continue until the trace stabilizes.
3. Use the peak marker function to determine the maximum amplitude level.
4. The E.I.R.P spectral density used radiated test method. At a test site that has been validated using the procedures of ANSI C63.4 or the latest CISPR 16-1-4 for measurements above 1 GHz, so as to simulate a near free-space environment.

5.3.4 Test Result

Please refer to ANNEX A.4.

5.4 Conducted Emission

5.4.1 Limit

FCC §15.207, RSS-GEN, 8.8

For an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency within the band 150 kHz to 30 MHz shall not exceed the limits in the following table, as measured using a 50 μ H/50 Ω line impedance stabilization network (LISN).

Frequency range (MHz)	Conducted Limit (dB μ V)	
	Quai-peak	Average
0.15 - 0.50	66 to 56	56 to 46
0.50 - 5	56	46
0.50 - 30	60	50

5.4.2 Test Setup

The section 4.4.2 (Diagram 2) test setup description was used for this test. The photo of test setup please refer to ANNEX B.

5.4.3 Test Procedure

The maximum conducted interference is searched using Peak (PK), if the emission levels more than the AV and QP limits, and that have narrow margins from the AV and QP limits will be re-measured with AV and QP detectors. Tests for both L phase and N phase lines of the power mains connected to the EUT are performed. Refer to recorded points and plots below.

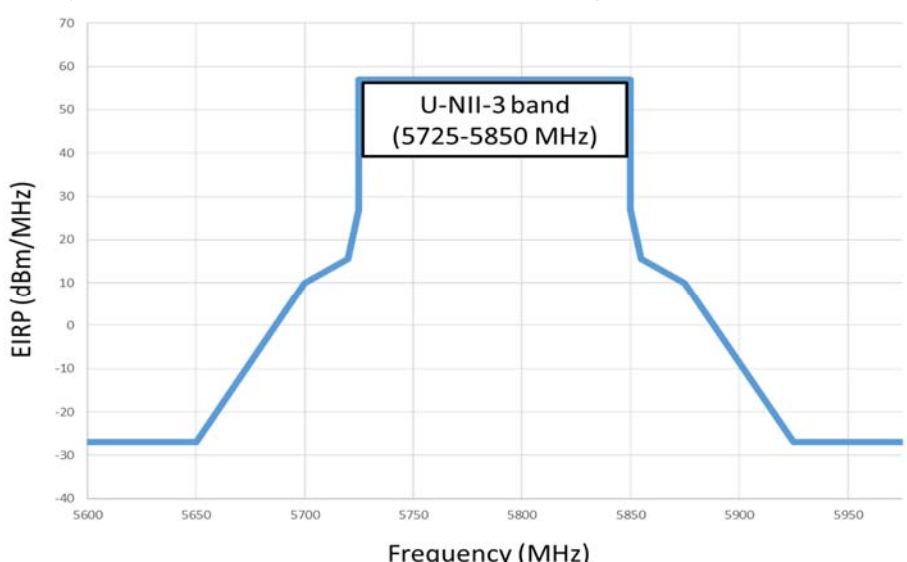
5.4.4 Test Result

Please refer to ANNEX A.5.

5.5 Conducted Spurious Emission and Band Edge (Authorized-band)

5.5.1 Limit

FCC §15.407(b)

Un-restricted band emissions	
Frequency Band (MHz)	Limit
5150 - 5250	Outside of the 5.15-5.35 GHz band: e.i.r.p. -27 dBm
5250 - 5350	Outside of the 5.15-5.35 GHz band: e.i.r.p. -27 dBm
5470 - 5725	Outside of the 5.47-5.725 GHz band: e.i.r.p. -27 dBm
5725 - 5850	All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge. 

RSS-247, 6.2

Un-restricted band emissions	
Frequency Band (MHz)	Limit
5150 - 5250	Outside of the 5.15-5.35 GHz band: e.i.r.p. -27 dBm, However, any unwanted emissions that fall into the band 5250-5350 MHz must be 26 dBc, when measured using a resolution bandwidth between 1 and 5% of the occupied bandwidth, above 5.25 GHz.
5250 - 5350	Outside of the 5.15-5.35 GHz band: e.i.r.p. -27 dBm. And any emissions within the band 5150-5250 MHz shall meet the power spectral density limits of 10 dBm/MHz, The device shall be labelled "for indoor use only."
5470 - 5725	Outside of the 5.47-5.725 GHz band: e.i.r.p. -27 dBm
5725 - 5850	5715 -5725 MHz: e.i.r.p. -17 dBm 5850 -5860 MHz: e.i.r.p. -17 dBm Other un-restricted band: e.i.r.p. -27 dBm

5.5.2 Test Setup

See section 4.4.2 (Diagram 2) for test setup description for the antenna port. The photo of test setup please refer to ANNEX B.

5.5.3 Test Procedure

Use the following spectrum analyzer settings:

Span = wide enough to capture the peak level of the in-band emission and all spurious emissions (e.g., harmonics) from the lowest frequency generated in the EUT up through the 10th harmonic. Typically, several plots are required to cover this entire span.

RBW = 1 MHz for $f \geq 1$ GHz, 100 kHz for $f < 1$ GHz

VBW $\geq$ RBW

Sweep = auto

Detector function = peak

Trace = max hold

Allow the trace to stabilize

5.5.4 Test Result

Please refer to ANNEX A.6.

5.6 Radiated Spurious Emissions and Band Edge (Restricted-band)

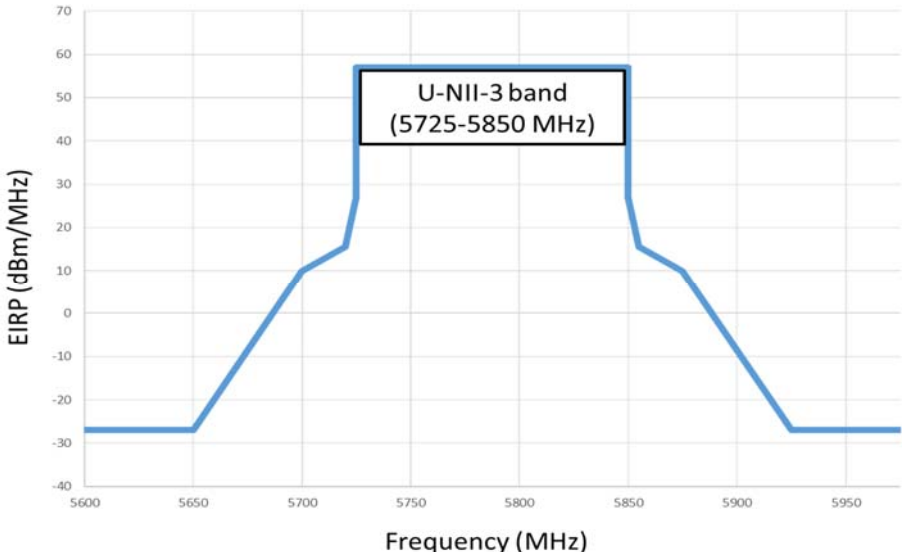
5.6.1 Limit

FCC §15.209 & 15.407(b), RSS-247, 6.2

Frequency (MHz)	Field Strength ($\mu\text{V/m}$)	Measurement Distance (m)
0.009 - 0.490	2400/F(kHz)	300
0.490 - 1.705	24000/F(kHz)	30
1.705 - 30.0	30	30
30 - 88	100	3
88 - 216	150	3
216 - 960	200	3
Above 960	500	3

Note¹: The Limit for radiated test was performed according to FCC Part 15C

Note²: The tighter limit applies at the band edge.

Un-restricted band emissions	
Out Operating Band (MHz)	Limit
5150 - 5250	e.i.r.p. -27 dBm (68.2 dBuV/m@3m)
5250 - 5350	e.i.r.p. -27 dBm (68.2 dBuV/m@3m)
5470 - 5725	e.i.r.p. -27 dBm (68.2 dBuV/m@3m)
5725 - 5850	All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.  The graph plots EIRP (dBm/MHz) on the y-axis (ranging from -40 to 70) against Frequency (MHz) on the x-axis (ranging from 5600 to 5950). A blue line represents the emission limit. It is flat at -27 dBm/MHz from 5600 to 5650 MHz, then rises linearly to 27 dBm/MHz at 5725 MHz. It remains at 27 dBm/MHz until 5850 MHz, then falls linearly back to -27 dBm/MHz at 5925 MHz, and remains flat at -27 dBm/MHz until 5950 MHz. A box labeled 'U-NII-3 band (5725-5850 MHz)' is placed over the flat top of the graph.

Note: The following formula is used to convert the equipment isotropic radiated power (eirp) to field strength.

5.6.2 Test Setup

The section 4.4.3-4.4.5 (Diagram 3 - Diagram 5) test setup description was used for this test. The photo of test

setup please refer to ANNEX B.

5.6.3 Test Procedure

Since the emission limits are specified in terms of radiated field strength levels, measurements performed to demonstrate compliance have traditionally relied on a radiated test configuration. Radiated measurements remain the principal method for demonstrating compliance to the specified limits; however antenna-port conducted measurements are also now acceptable to demonstrate compliance (see below for details). When radiated measurements are utilized, test site requirements and procedures for maximizing and measuring radiated emissions that are described in ANSI C63.10 shall be followed.

Antenna-port conducted measurements may also be used as an alternative to radiated measurements for demonstrating compliance in the restricted frequency bands. If conducted measurements are performed, then proper impedance matching must be ensured and an additional radiated test for cabinet/case spurious emissions is required.

General Procedure for conducted measurements in restricted bands

- a) Measure the conducted output power (in dBm) using the detector specified (see guidance regarding measurement procedures for determining quasi-peak, peak, and average conducted output power, respectively).
- b) Add the maximum transmit antenna gain (in dBi) to the measured output power level to determine the EIRP level (see guidance on determining the applicable antenna gain)
- c) Add the appropriate maximum ground reflection factor to the EIRP level (6 dB for frequencies ≤ 30 MHz, 4.7 dB for frequencies between 30 MHz and 1000 MHz, inclusive and 0 dB for frequencies > 1000 MHz).
- d) For devices with multiple antenna-ports, measure the power of each individual chain and sum the EIRP of all chains in linear terms (e.g., Watts, mW).
- e) Convert the resultant EIRP level to an equivalent electric field strength using the following relationship:

$$E = \text{EIRP} - 20 \log D + 104.8$$

where:

E = electric field strength in dB μ V/m,

EIRP = equivalent isotropic radiated power in dBm

D = specified measurement distance in meters.

- f) Compare the resultant electric field strength level to the applicable limit.
- g) Perform radiated spurious emission test.

Quasi-Peak measurement procedure

The specifications for measurements using the CISPR quasi-peak detector can be found in Publication 16 of the International Special Committee on Radio Frequency Interference (CISPR) of the International Electrotechnical Commission.

As an alternative to CISPR quasi-peak measurement, compliance can be demonstrated to the applicable emission limits using a peak detector.

Peak power measurement procedure

Peak emission levels are measured by setting the instrument as follows:

- a) RBW = as specified in Table 1.
- b) VBW $\geq 3 \times$ RBW.
- c) Detector = Peak.
- d) Sweep time = auto.
- e) Trace mode = max hold.
- f) Allow sweeps to continue until the trace stabilizes. (Note that the required measurement time may be longer for low duty cycle applications).

Table 1—RBW as a function of frequency

Frequency	RBW
9-150 kHz	200-300 Hz
0.15-30 MHz	9-10 kHz
30-1000 MHz	100-120 kHz
> 1000 MHz	1 MHz

If the peak-detected amplitude can be shown to comply with the average limit, then it is not necessary to perform a separate average measurement.

Trace averaging across on and off times of the EUT transmissions followed by duty cycle correction

If continuous transmission of the EUT (i.e., duty cycle ≥ 98 percent) cannot be achieved and the duty cycle is constant (i.e., duty cycle variations are less than ± 2 percent), then the following procedure shall be used:

- a) The EUT shall be configured to operate at the maximum achievable duty cycle.
- b) Measure the duty cycle, x , of the transmitter output signal as described in section 6.0.
- c) RBW = 1 MHz (unless otherwise specified).
- d) VBW $\geq 3 \times$ RBW.
- e) Detector = RMS, if $\text{span}/(\# \text{ of points in sweep}) \leq (\text{RBW}/2)$. Satisfying this condition may require increasing the number of points in the sweep or reducing the span. If this condition cannot be satisfied, then the detector mode shall be set to peak.
- f) Averaging type = power (i.e., RMS).
 - 1) As an alternative, the detector and averaging type may be set for linear voltage averaging.
 - 2) Some instruments require linear display mode in order to use linear voltage averaging. Log or dB averaging shall not be used.
- g) Sweep time = auto.
- h) Perform a trace average of at least 100 traces.
- i) A correction factor shall be added to the measurement results prior to comparing to the emission limit in order to compute the emission level that would have been measured had the test been performed at 100 percent duty cycle. The correction factor is computed as follows:
 - 1) If power averaging (RMS) mode was used in step f), then the applicable correction factor is $10 \log(1/x)$, where x is the duty cycle.
 - 2) If linear voltage averaging mode was used in step f), then the applicable correction factor is $20 \log(1/x)$, where x is the duty cycle.
 - 3) If a specific emission is demonstrated to be continuous (≥ 98 percent duty cycle) rather than turning on and off with the transmit cycle, then no duty cycle correction is required for that emission.

NOTE: Reduction of the measured emission amplitude levels to account for operational duty factor is not permitted. Compliance is based on emission levels occurring during transmission - not on an average across on and off times of the transmitter.

Determining the applicable transmit antenna gain

A conducted power measurement will determine the maximum output power associated with a restricted band

emission; however, in order to determine the associated EIRP level, the gain of the transmitting antenna (in dBi) must be added to the measured output power (in dBm).

Since the out-of-band characteristics of the EUT transmit antenna will often be unknown, the use of a conservative antenna gain value is necessary. Thus, when determining the EIRP based on the measured conducted power, the upper bound on antenna gain for a device with a single RF output shall be selected as the maximum in-band gain of the antenna across all operating bands, or 2 dBi, whichever is greater. However, for devices that operate in multiple frequency bands while using the same transmit antenna, the highest gain of the antenna within the operating band nearest in frequency to the restricted band emission being measured may be used in lieu of the overall highest gain when the emission is at a frequency that is within 20 percent of the nearest band edge frequency, but in no case shall a value less than 2 dBi be used.

See KDB 662911 for guidance on calculating the additional array gain term when determining the effective antenna gain for a EUT with multiple outputs occupying the same or overlapping frequency ranges in the same band.

Radiated spurious emission test

An additional consideration when performing conducted measurements of restricted band emissions is that unwanted emissions radiating from the EUT cabinet, control circuits, power leads, or intermediate circuit elements will likely go undetected in a conducted measurement configuration. To address this concern, a radiated test shall be performed to ensure that emissions emanating from the EUT cabinet (rather than the antenna port) also comply with the applicable limits.

For these cabinet radiated spurious emission measurements the EUT transmit antenna may be replaced with a termination matching the nominal impedance of the antenna. Procedures for performing radiated measurements are specified in ANSI C63.10. All detected emissions shall comply with the applicable limits.

The measurement frequency range is from 30 MHz to the 10th harmonic of the fundamental frequency. The Turn Table is actuated to turn from 0° to 360°, and both horizontal and vertical polarizations of the Test Antenna are used to find the maximum radiated power. Mid channels on all channel bandwidth verified. Only the worst RB size/offset presented.

The power of the EUT transmitting frequency should be ignored.

All Spurious Emission tests were performed in X, Y, Z axis direction. And only the worst axis test condition was recorded in this test report.

Use the following spectrum analyzer settings:

Span = wide enough to fully capture the emission being measured

RBW = 1 MHz for $f \geq 1$ GHz, 100 kHz for $f < 1$ GHz

VBW $\geq$ RBW

Sweep = auto

Detector function = peak

Trace = max hold

5.6.4 Test Result

Please refer to ANNEX A.7 and Please refer to ANNEX A.9

5.7 Frequency Stability

5.7.1 Limit

FCC §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 user's manual.

5.7.2 Test Setup

The section 4.4.6 (Diagram 6) test setup description was used for this test. The photo of test setup please refer to ANNEX B.

5.7.3 Test Procedure

The EUT is installed in an environment test chamber with external power source.

Set the chamber to operate at 50 centigrade and external power source to output at nominal voltage of EUT.

A sufficient stabilization period at each temperatures is used prior to each frequency measurement.

When temperature is stabled, measure the frequency stability.

The test shall be performed under -30 to 50 centigrade and 85 to 115 percent of the nominal voltage.

Change setting of chamber and external power source to complete all conditions.

5.7.4 Test Result

Please refer to ANNEX A.8.

ANNEX A TEST RESULT

A.1 RF Output Power

Note: For FCC standard, if transmitting antennas of directional gain greater than 6 dBi are used, all band maximum conducted output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

Test Data

Conducted Power

Band I (5150 - 5250 MHz)						
Mode	Channel	Frequency (MHz)	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11a	CH36	5180	9.44	8.79	250.00	Pass
11a	CH44	5220	9.61	9.14	250.00	Pass
11a	CH48	5240	10.90	12.30	250.00	Pass
11n (HT20)	CH36	5180	10.05	10.12	250.00	Pass
11n (HT20)	CH44	5220	10.13	10.30	250.00	Pass
11n (HT20)	CH48	5240	10.93	12.39	250.00	Pass
11n (HT40)	CH38	5190	9.05	8.04	250.00	Pass
11n (HT40)	CH46	5230	10.20	10.47	250.00	Pass

Band IV (5725 - 5850 MHz)						
Mode	Channel	Frequency (MHz)	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11a	CH149	5745	11.16	13.06	1.00	Pass
11a	CH157	5785	9.44	8.79	1.00	Pass
11a	CH165	5825	10.44	11.07	1.00	Pass
11n (HT20)	CH149	5745	11.63	14.55	1.00	Pass
11n (HT20)	CH157	5785	10.20	10.47	1.00	Pass
11n (HT20)	CH165	5825	10.45	11.09	1.00	Pass
11n (HT40)	CH151	5755	10.25	10.59	1.00	Pass
11n (HT40)	CH159	5795	8.47	7.03	1.00	Pass

A.2 Emission Bandwidth & 99% Bandwidth

Note: Test plots please refer to the document “Annex No.: BL-SZ1840014-604 Data Part 1.pdf”.

Test Data

Band I (5150 - 5250 MHz)				
Mode	Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	99% Bandwidth (MHz)
11a	CH36	5180	19.88	17.13
11a	CH44	5220	19.80	17.08
11a	CH48	5240	19.96	16.90
11n (HT20)	CH36	5180	20.40	18.00
11n (HT20)	CH44	5220	20.40	18.12
11n (HT20)	CH48	5240	19.48	18.00
11n (HT40)	CH38	5190	42.10	36.58
11n (HT40)	CH46	5230	41.50	37.97

Band IV (5725 - 5850 MHz)			
Mode	Channel	Frequency (MHz)	99% Bandwidth (MHz)
11a	CH149	5745	19.57
11a	CH157	5785	17.83
11a	CH165	5825	17.54
11n (HT20)	CH149	5745	20.09
11n (HT20)	CH157	5785	18.52
11n (HT20)	CH165	5825	18.35
11n (HT40)	CH151	5755	56.73
11n (HT40)	CH159	5795	49.32

A.3 6 dB Bandwidth

Note: Test plots please refer to the document "Annex No.: BL-SZ1840014-604 Data Part 2.pdf".

Test Data

Band IV (5725 - 5850 MHz)					
Mode	Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Limit (kHz)	Verdict
11a	CH149	5745	16.72	500	Pass
11a	CH157	5785	16.52	500	Pass
11a	CH165	5825	16.47	500	Pass
11n (HT20)	CH149	5745	17.92	500	Pass
11n (HT20)	CH157	5785	17.72	500	Pass
11n (HT20)	CH165	5825	17.82	500	Pass
11n (HT40)	CH151	5755	34.82	500	Pass
11n (HT40)	CH159	5795	36.37	500	Pass

A.4 Power Spectral Density

Note: Test plots please refer to the document “Annex No.: BL-SZ1840014-604 Data Part 3.pdf”.

Test Data

Band I (5150 - 5250 MHz)					
Mode	Channel	Frequency (MHz)	PSD (dBm/MHz)	FCC Limit(dBm/MHz)	Verdict
11a	CH36	5180	5.24	11	Pass
11a	CH44	5220	6.10	11	Pass
11a	CH48	5240	6.80	11	Pass
11n (HT20)	CH36	5180	6.38	11	Pass
11n (HT20)	CH44	5220	6.22	11	Pass
11n (HT20)	CH48	5240	6.57	11	Pass
11n (HT40)	CH38	5190	2.24	11	Pass
11n (HT40)	CH46	5230	2.44	11	Pass

Band IV (5725 - 5850 MHz)					
Mode	Channel	Frequency (MHz)	PSD (dBm/500KHz)	FCC Limit(dBm/500KHz)	Verdict
11a	CH149	5745	1.84	30	Pass
11a	CH157	5785	0.35	30	Pass
11a	CH165	5825	1.15	30	Pass
11n (HT20)	CH149	5745	2.12	30	Pass
11n (HT20)	CH157	5785	0.66	30	Pass
11n (HT20)	CH165	5825	0.99	30	Pass
11n (HT40)	CH151	5755	-14.94	30	Pass
11n (HT40)	CH159	5795	-16.44	30	Pass

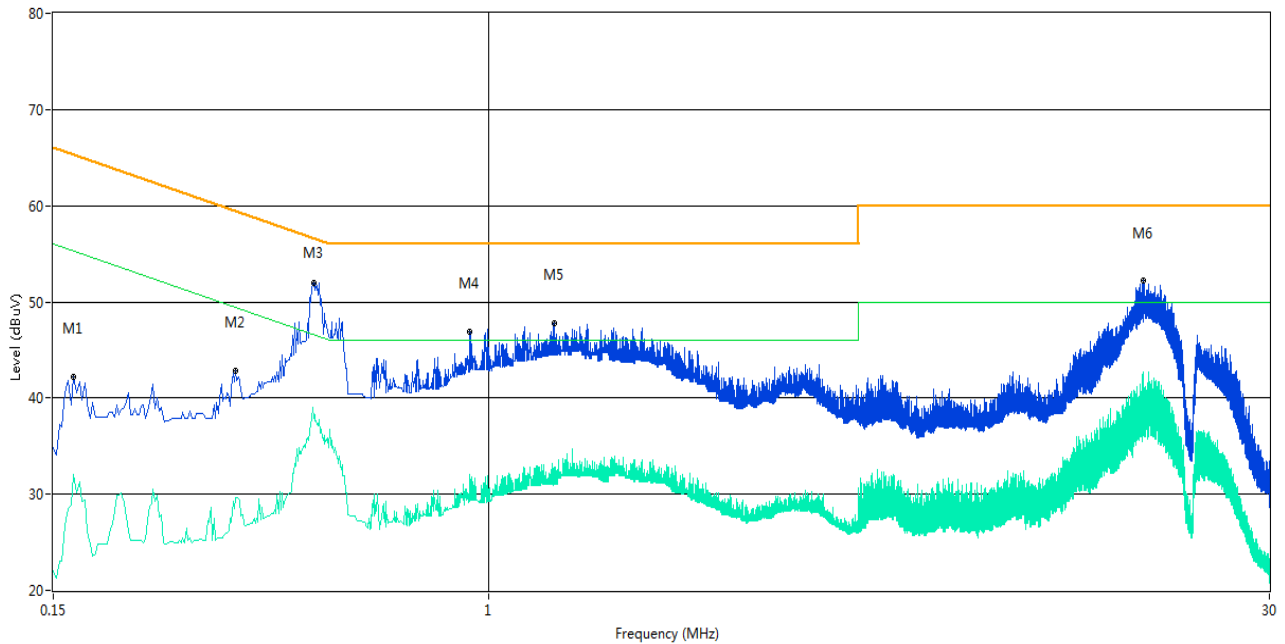
A.5 Conducted Emissions

Note¹: The EUT is working in the Normal link mode.

Note²: Devices subject to Part 15 must be tested for all available U.S. voltages and frequencies (such as a nominal 120 VAC, 60 Hz and 240 VAC, 50 Hz) for which the device is capable of operation. So, The configuration 120 VAC, 60 Hz and 240 VAC, 50 Hz were tested respectively, but only the worst configuration (120 VAC, 60 Hz) shown here.

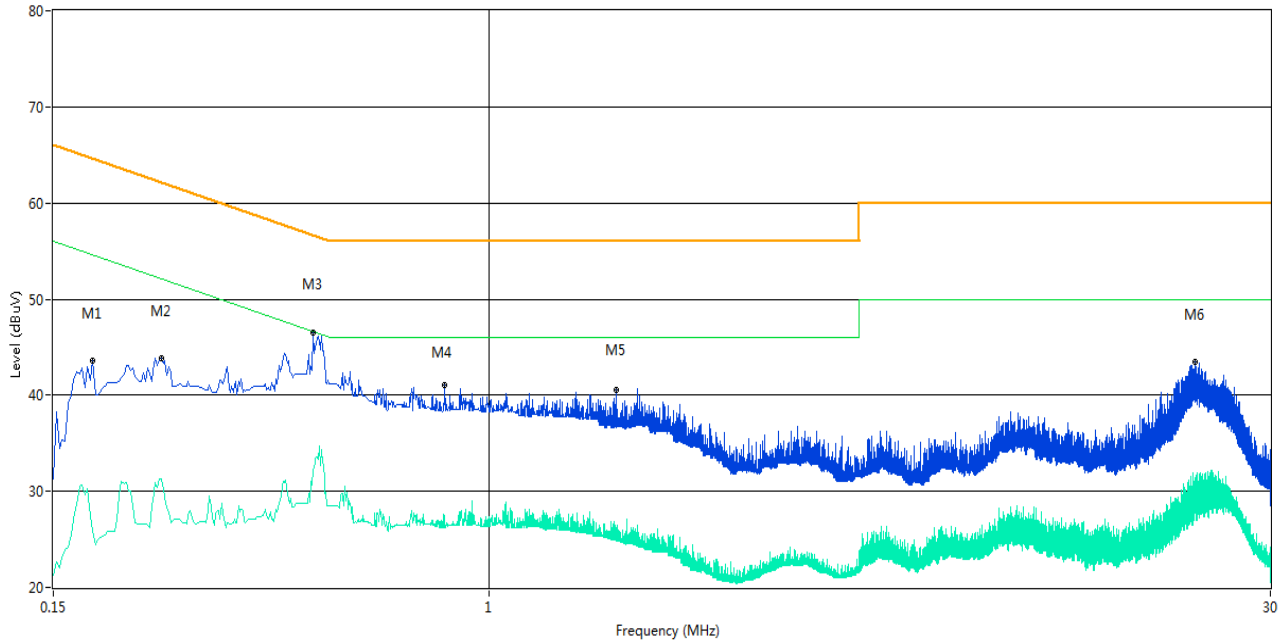
Test Data and Plots

PHASE L



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.164	42.2	10.04	65.3	23.10	Peak	L Line	Pass
1**	0.164	32.1	10.04	55.3	23.20	AV	L Line	Pass
2	0.332	42.9	10.04	59.4	16.50	Peak	L Line	Pass
2**	0.332	29.6	10.04	49.4	19.80	AV	L Line	Pass
3	0.466	52.0	10.04	56.6	4.60	Peak	L Line	Pass
3**	0.466	37.9	10.04	46.6	8.70	AV	L Line	Pass
4	0.922	46.9	10.06	56.0	9.10	Peak	L Line	Pass
4**	0.922	32.0	10.06	46.0	14.00	AV	L Line	Pass
5	1.328	47.8	10.07	56.0	8.20	Peak	L Line	Pass
5**	1.328	32.7	10.07	46.0	13.30	AV	L Line	Pass
6	17.350	52.2	10.52	60.0	7.80	Peak	L Line	Pass
6**	17.350	40.8	10.52	50.0	9.20	AV	L Line	Pass

PHASE N



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.178	43.6	10.04	64.6	21.00	Peak	N Line	Pass
1**	0.178	25.8	10.04	54.6	28.80	AV	N Line	Pass
2	0.240	43.8	10.04	62.1	18.30	Peak	N Line	Pass
2**	0.240	31.3	10.04	52.1	20.80	AV	N Line	Pass
3	0.464	46.5	10.04	56.6	10.10	Peak	N Line	Pass
3**	0.464	32.2	10.04	46.6	14.40	AV	N Line	Pass
4	0.824	41.0	10.05	56.0	15.00	Peak	N Line	Pass
4**	0.824	24.9	10.05	46.0	21.10	AV	N Line	Pass
5	1.740	40.5	10.08	56.0	15.50	Peak	N Line	Pass
5**	1.740	26.2	10.08	46.0	19.80	AV	N Line	Pass
6	21.640	43.5	10.64	60.0	16.50	Peak	N Line	Pass
6**	21.640	26.5	10.64	50.0	23.50	AV	N Line	Pass

A.6 Conducted Spurious Emission and Band Edge (Authorized-band)

Note: Test plots please refer to the document “Annex No.: BL-SZ1840014-604 Data Part 4.pdf”.

Test Band	Mode	Channel	Verdict
Band I	802.11a	Low	Pass
		Middle	Pass
		High	Pass
	802.11n(HT20)	Low	Pass
		Middle	Pass
		High	Pass
	802.11n(HT40)	Low	Pass
		High	Pass
Band IV	802.11a	Low	Pass
		Middle	Pass
		High	Pass
	802.11n(HT20)	Low	Pass
		Middle	Pass
		High	Pass
	802.11n(HT40)	Low	Pass
		High	Pass

A.7 Radiated Spurious Emissions and Band Edge (Restricted-band)

Test Data

Cabinet Radiated spurious emission test

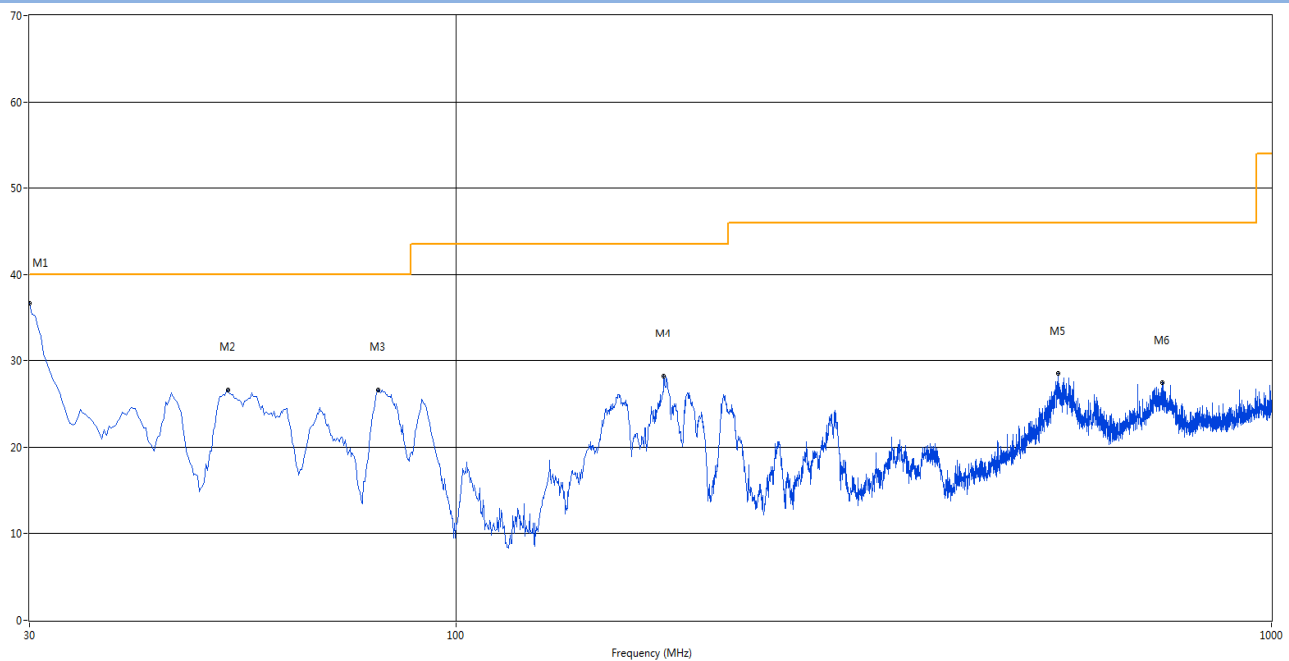
Note¹: The symbol of “--” in the table which means not application.

Note²: For the test data above 1 GHz, According the ANSI C63.4, where limits are specified for both average and peak (or quasi-peak) detector functions, if the peak (or quasi-peak) measured value complies with the average limit, it is unnecessary to perform an average measurement.

Note³: The low frequency, which started from 9 kHz to 30 MHz, was pre-scanned and the result which was 20 dB lower than the limit line per 15.31(o) was not reported.

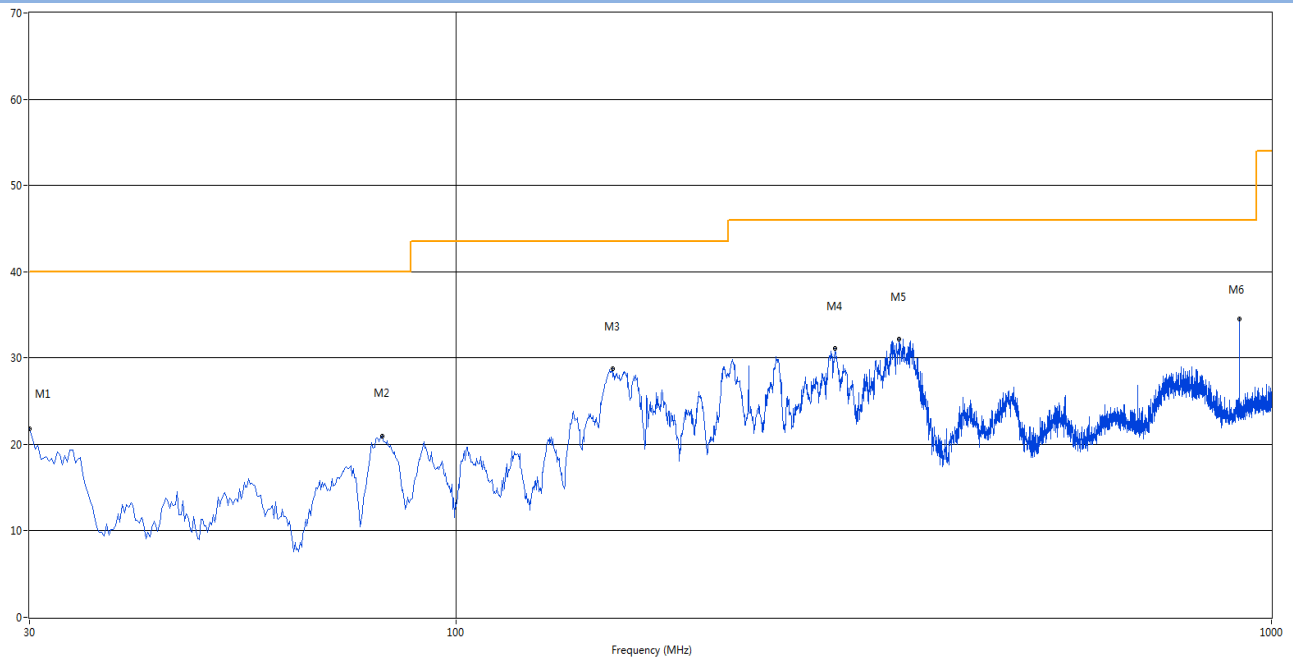
Note⁴: The EUT is working in the Normal link mode below 1 GHz.

30 MHz to 1 GHz, ANT V



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	30.000	36.72	-27.46	40.0	3.28	Peak	0.00	100	Vertical	Pass
2	52.553	26.60	-24.29	40.0	13.40	Peak	163.90	200	Vertical	Pass
3	80.198	26.56	-29.84	40.0	13.44	Peak	43.40	100	Vertical	Pass
4	179.865	28.19	-27.48	43.5	15.31	Peak	253.40	100	Vertical	Pass
5	548.222	28.47	-16.48	46.0	17.53	Peak	235.60	200	Vertical	Pass
6	734.705	27.37	-13.55	46.0	18.63	Peak	190.90	200	Vertical	Pass

30 MHz to 1 GHz, ANT H



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	30.000	21.72	-27.46	40.0	18.28	Peak	310.00	100	Horizontal	Pass
2	81.168	20.93	-29.72	40.0	19.07	Peak	261.40	200	Horizontal	Pass
3	155.615	28.68	-28.73	43.5	14.82	Peak	310.00	200	Horizontal	Pass
4	291.658	31.04	-23.02	46.0	14.96	Peak	97.20	300	Horizontal	Pass
5	349.615	32.17	-21.15	46.0	13.83	Peak	110.40	100	Horizontal	Pass
6	914.398	34.63	-10.66	46.0	11.37	Peak	62.00	100	Horizontal	Pass

Note ¹: The device was evaluated/tested in XYZ orientation for radiated spurious emissions. And only the worst orientation of EUT was reported, which is the horizontal orientation.

Note ²: The spurious above 18G is noise only, do not show on the report.

1 GHz to 40 GHz, ANT V Band I 11a Low channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1200.000	36.8	-16.37	54.0	17.20	AV	181.60	150	Vertical	Pass
1	1200.000	46.34	-16.37	74.0	27.66	Peak	181.60	150	Vertical	Pass
2**	1672.500	35.3	-17.29	54.0	18.70	AV	162.50	150	Vertical	Pass
2	1672.500	48.80	-17.29	74.0	25.20	Peak	162.50	150	Vertical	Pass
3**	2460.000	31.6	-11.79	--	-31.60	AV	124.40	150	Vertical	Pass
3	2460.000	41.05	-11.79	68.2	27.15	Peak	124.40	150	Vertical	Pass
4**	5175.000	93.1	-3.38	--	-93.10	AV	315.00	150	Vertical	N/A
4	5175.000	97.99	-3.38	--	217.01	Peak	315.00	150	Vertical	N/A
5**	7605.188	41.8	14.02	54.0	12.20	AV	347.50	150	Vertical	Pass
5	7605.188	47.88	14.02	74.0	26.12	Peak	347.50	150	Vertical	Pass
6**	11562.625	44.2	15.87	54.0	9.80	AV	76.00	150	Vertical	Pass
6	11562.625	51.91	15.87	74.0	22.09	Peak	76.00	150	Vertical	Pass

1 GHz to 40 GHz, ANT H Band I 11a Low channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1708.500	33.0	-17.14	54.0	21.00	AV	41.10	150	Horizontal	Pass
1	1708.500	44.96	-17.14	74.0	29.04	Peak	41.10	150	Horizontal	Pass
2**	2770.500	33.2	-9.70	54.0	20.80	AV	340.00	150	Horizontal	Pass
2	2770.500	40.10	-9.70	74.0	33.90	Peak	340.00	150	Horizontal	Pass
3**	3837.000	35.2	-7.19	54.0	18.80	AV	93.40	150	Horizontal	Pass
3	3837.000	42.54	-7.19	74.0	31.46	Peak	93.40	150	Horizontal	Pass
4**	5186.000	94.4	-3.47	--	-94.40	AV	226.50	150	Horizontal	N/A
4	5186.000	99.44	-3.47	--	127.06	Peak	226.50	150	Horizontal	N/A
5**	7603.750	41.5	14.03	54.0	12.50	AV	134.10	150	Horizontal	Pass
5	7603.750	48.59	14.03	74.0	25.41	Peak	134.10	150	Horizontal	Pass
6**	9110.250	43.2	15.57	54.0	10.80	AV	328.90	150	Horizontal	Pass
6	9110.250	50.04	15.57	74.0	23.96	Peak	328.90	150	Horizontal	Pass

1 GHz to 40 GHz, ANT V Band I 11a Middle channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1200.000	32.3	-16.37	54.0	21.70	AV	124.60	150	Vertical	Pass
1	1200.000	47.06	-16.37	74.0	26.94	Peak	124.60	150	Vertical	Pass
2**	1701.500	33.3	-17.18	54.0	20.70	AV	129.60	150	Vertical	Pass
2	1701.500	48.24	-17.18	74.0	25.76	Peak	129.60	150	Vertical	Pass
3**	2968.500	33.8	-9.57	--	-33.80	AV	164.70	150	Vertical	Pass
3	2968.500	41.25	-9.57	68.2	26.95	Peak	164.70	150	Vertical	Pass
4**	5225.000	94.3	-2.90	--	-94.30	AV	315.00	150	Vertical	N/A
4	5225.000	100.18	-2.90	--	214.82	Peak	315.00	150	Vertical	N/A
5**	9143.312	43.8	15.48	54.0	10.20	AV	0.00	150	Vertical	Pass
5	9143.312	49.33	15.48	74.0	24.67	Peak	0.00	150	Vertical	Pass
6**	12577.500	47.6	18.07	54.0	6.40	AV	355.80	150	Vertical	Pass
6	12577.500	52.91	18.07	74.0	21.09	Peak	355.80	150	Vertical	Pass

1 GHz to 40 GHz, ANT H Band I 11a Middle channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1200.000	34.1	-16.37	54.0	19.90	AV	27.90	150	Horizontal	Pass
1	1200.000	41.52	-16.37	74.0	32.48	Peak	27.90	150	Horizontal	Pass
2**	1789.000	27.9	-16.97	--	-27.90	AV	51.90	150	Horizontal	Pass
2	1789.000	41.87	-16.97	68.2	26.33	Peak	51.90	150	Horizontal	Pass
3**	3197.000	38.3	-7.76	--	-38.30	AV	24.80	150	Horizontal	Pass
3	3197.000	41.72	-7.76	68.2	26.48	Peak	24.80	150	Horizontal	Pass
4**	5225.000	98.1	-2.90	--	-98.10	AV	113.60	150	Horizontal	N/A
4	5225.000	103.18	-2.90	--	10.42	Peak	113.60	150	Horizontal	N/A
5**	8219.000	41.4	13.73	54.0	12.60	AV	17.40	150	Horizontal	Pass
5	8219.000	47.73	13.73	74.0	26.27	Peak	17.40	150	Horizontal	Pass
6**	12545.875	48.1	17.27	54.0	5.90	AV	191.70	150	Horizontal	Pass
6	12545.875	53.73	17.27	74.0	20.27	Peak	191.70	150	Horizontal	Pass

1 GHz to 40 GHz, ANT V Band I 11a High channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1185.000	29.2	-16.38	54.0	24.80	AV	190.70	150	Vertical	Pass
1	1185.000	39.77	-16.38	74.0	34.23	Peak	190.70	150	Vertical	Pass
2**	1686.500	36.8	-17.27	54.0	17.20	AV	147.30	150	Vertical	Pass
2	1686.500	46.32	-17.27	74.0	27.68	Peak	147.30	150	Vertical	Pass
3**	2668.000	32.1	-11.03	--	-32.10	AV	64.50	150	Vertical	Pass
3	2668.000	43.43	-11.03	68.2	24.77	Peak	64.50	150	Vertical	Pass
4**	5247.000	95.0	-2.27	--	-95.00	AV	321.70	150	Vertical	N/A
4	5247.000	99.64	-2.27	--	222.06	Peak	321.70	150	Vertical	N/A
5**	7605.188	42.3	14.02	54.0	11.70	AV	288.50	150	Vertical	Pass
5	7605.188	49.10	14.02	74.0	24.90	Peak	288.50	150	Vertical	Pass
6**	12570.313	47.0	17.86	54.0	7.00	AV	360.00	150	Vertical	Pass
6	12570.313	53.00	17.86	74.0	21.00	Peak	360.00	150	Vertical	Pass

1 GHz to 40 GHz, ANT H Band I 11a High channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1200.000	35.9	-16.37	54.0	18.10	AV	316.70	150	Horizontal	Pass
1	1200.000	41.49	-16.37	74.0	32.51	Peak	316.70	150	Horizontal	Pass
2**	1734.500	30.6	-17.06	--	-30.60	AV	40.30	150	Horizontal	Pass
2	1734.500	42.17	-17.06	68.2	26.03	Peak	40.30	150	Horizontal	Pass
3**	3161.000	36.2	-8.67	--	-36.20	AV	336.70	150	Horizontal	Pass
3	3161.000	41.00	-8.67	68.2	27.20	Peak	336.70	150	Horizontal	Pass
4**	5234.000	98.8	-2.46	--	-98.80	AV	105.30	150	Horizontal	N/A
4	5234.000	102.94	-2.46	--	2.36	Peak	105.30	150	Horizontal	N/A
5**	9915.250	42.2	15.59	--	-42.20	AV	317.10	150	Horizontal	Pass
5	9915.250	49.80	15.59	68.2	18.40	Peak	317.10	150	Horizontal	Pass
6**	12577.500	46.1	18.07	54.0	7.90	AV	129.10	150	Horizontal	Pass
6	12577.500	52.59	18.07	74.0	21.41	Peak	129.10	150	Horizontal	Pass

1 GHz to 40 GHz, ANT V Band I 11n20 Low channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1200.000	31.7	-16.37	54.0	22.30	AV	123.80	150	Vertical	Pass
1	1200.000	42.17	-16.37	74.0	31.83	Peak	123.80	150	Vertical	Pass
2**	1679.500	34.1	-17.31	54.0	19.90	AV	162.00	150	Vertical	Pass
2	1679.500	45.36	-17.31	74.0	28.64	Peak	162.00	150	Vertical	Pass
3**	3102.000	34.5	-8.73	--	-34.50	AV	1.70	150	Vertical	Pass
3	3102.000	41.20	-8.73	68.2	27.00	Peak	1.70	150	Vertical	Pass
4**	5173.000	96.9	-3.40	--	-96.90	AV	360.00	150	Vertical	N/A
4	5173.000	100.75	-3.40	--	259.25	Peak	360.00	150	Vertical	N/A
5**	9284.187	43.0	15.19	--	-43.00	AV	159.60	150	Vertical	Pass
5	9284.187	49.67	15.19	68.2	18.53	Peak	159.60	150	Vertical	Pass
6**	12468.250	46.6	16.96	54.0	7.40	AV	347.90	150	Vertical	Pass
6	12468.250	52.51	16.96	74.0	21.49	Peak	347.90	150	Vertical	Pass

1 GHz to 40 GHz, ANT H Band I 11n20 Low channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1200.500	33.4	-16.34	54.0	20.60	AV	118.90	150	Horizontal	Pass
1	1200.500	40.59	-16.34	74.0	33.41	Peak	118.90	150	Horizontal	Pass
2**	1704.500	28.5	-17.20	54.0	25.50	AV	46.30	150	Horizontal	Pass
2	1704.500	39.96	-17.20	74.0	34.04	Peak	46.30	150	Horizontal	Pass
3**	3234.000	34.8	-8.08	--	-34.80	AV	3.00	150	Horizontal	Pass
3	3234.000	41.44	-8.08	68.2	26.76	Peak	3.00	150	Horizontal	Pass
4**	5174.000	98.5	-3.39	--	-98.50	AV	242.90	150	Horizontal	N/A
4	5174.000	102.70	-3.39	--	140.20	Peak	242.90	150	Horizontal	N/A
5**	9080.063	42.2	15.70	54.0	11.80	AV	205.40	150	Horizontal	Pass
5	9080.063	50.31	15.70	74.0	23.69	Peak	205.40	150	Horizontal	Pass
6**	12557.375	46.6	17.52	54.0	7.40	AV	308.60	150	Horizontal	Pass
6	12557.375	52.85	17.52	74.0	21.15	Peak	308.60	150	Horizontal	Pass

1 GHz to 40 GHz, ANT V Band I 11n20 Middle channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1341.000	28.2	-16.31	54.0	25.80	AV	151.30	150	Vertical	Pass
1	1341.000	40.51	-16.31	74.0	33.49	Peak	151.30	150	Vertical	Pass
2**	1723.000	33.5	-17.19	--	-33.50	AV	161.20	150	Vertical	Pass
2	1723.000	47.12	-17.19	68.2	21.08	Peak	161.20	150	Vertical	Pass
3**	1926.000	29.2	-15.80	--	-29.20	AV	161.20	150	Vertical	Pass
3	1926.000	43.58	-15.80	68.2	24.62	Peak	161.20	150	Vertical	Pass
4**	5223.000	95.5	-2.88	--	-95.50	AV	309.70	150	Vertical	N/A
4	5223.000	100.87	-2.88	--	208.83	Peak	309.70	150	Vertical	N/A
5**	9074.312	43.7	15.56	54.0	10.30	AV	315.70	150	Vertical	Pass
5	9074.312	49.74	15.56	74.0	24.26	Peak	315.70	150	Vertical	Pass
6**	12620.625	46.8	17.88	54.0	7.20	AV	95.10	150	Vertical	Pass
6	12620.625	53.38	17.88	74.0	20.62	Peak	95.10	150	Vertical	Pass

1 GHz to 40 GHz, ANT H Band I 11n20 Middle channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1200.000	33.3	-16.37	54.0	20.70	AV	11.60	150	Horizontal	Pass
1	1200.000	41.11	-16.37	74.0	32.89	Peak	11.60	150	Horizontal	Pass
2**	1702.000	32.3	-17.23	54.0	21.70	AV	54.10	150	Horizontal	Pass
2	1702.000	43.45	-17.23	74.0	30.55	Peak	54.10	150	Horizontal	Pass
3**	3190.000	37.0	-7.11	--	-37.00	AV	143.80	150	Horizontal	Pass
3	3190.000	42.28	-7.11	68.2	25.92	Peak	143.80	150	Horizontal	Pass
4**	5216.000	98.0	-2.97	--	-98.00	AV	111.20	150	Horizontal	N/A
4	5216.000	102.56	-2.97	--	8.64	Peak	111.20	150	Horizontal	N/A
5**	9160.563	43.9	15.50	54.0	10.10	AV	17.80	150	Horizontal	Pass
5	9160.563	49.30	15.50	74.0	24.70	Peak	17.80	150	Horizontal	Pass
6**	12416.500	45.5	17.24	54.0	8.50	AV	243.80	150	Horizontal	Pass
6	12416.500	52.94	17.24	74.0	21.06	Peak	243.80	150	Horizontal	Pass

1 GHz to 40 GHz, ANT V Band I 11n20 High channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1200.000	37.2	-16.37	54.0	16.80	AV	358.70	150	Vertical	Pass
1	1200.000	40.63	-16.37	74.0	33.37	Peak	358.70	150	Vertical	Pass
2**	1651.000	32.0	-17.31	--	-32.00	AV	152.30	150	Vertical	Pass
2	1651.000	47.70	-17.31	68.2	20.50	Peak	152.30	150	Vertical	Pass
3**	3193.000	35.9	-7.35	--	-35.90	AV	359.60	150	Vertical	Pass
3	3193.000	41.48	-7.35	68.2	26.72	Peak	359.60	150	Vertical	Pass
4**	5236.000	96.5	-2.43	--	-96.50	AV	321.20	150	Vertical	N/A
4	5236.000	100.78	-2.43	--	220.42	Peak	321.20	150	Vertical	N/A
5**	9113.125	44.1	15.55	54.0	9.90	AV	107.80	150	Vertical	Pass
5	9113.125	49.95	15.55	74.0	24.05	Peak	107.80	150	Vertical	Pass
6**	12591.875	46.5	17.81	54.0	7.50	AV	5.70	150	Vertical	Pass
6	12591.875	53.36	17.81	74.0	20.64	Peak	5.70	150	Vertical	Pass

1 GHz to 40 GHz, ANT H Band I 11n20 High channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1200.000	33.0	-16.37	54.0	21.00	AV	311.00	150	Horizontal	Pass
1	1200.000	39.46	-16.37	74.0	34.54	Peak	311.00	150	Horizontal	Pass
2**	1691.500	27.7	-17.25	54.0	26.30	AV	32.20	150	Horizontal	Pass
2	1691.500	41.12	-17.25	74.0	32.88	Peak	32.20	150	Horizontal	Pass
3**	2999.500	33.4	-8.68	--	-33.40	AV	1.50	150	Horizontal	Pass
3	2999.500	41.27	-8.68	68.2	26.93	Peak	1.50	150	Horizontal	Pass
4**	5237.000	98.4	-2.43	--	-98.40	AV	110.20	150	Horizontal	N/A
4	5237.000	102.93	-2.43	--	7.27	Peak	110.20	150	Horizontal	N/A
5**	9177.813	42.6	15.13	54.0	11.40	AV	356.00	150	Horizontal	Pass
5	9177.813	49.09	15.13	74.0	24.91	Peak	356.00	150	Horizontal	Pass
6**	12415.062	47.3	17.24	54.0	6.70	AV	287.20	150	Horizontal	Pass
6	12415.062	52.65	17.24	74.0	21.35	Peak	287.20	150	Horizontal	Pass

1 GHz to 40 GHz, ANT V Band I 11n40 Low channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1222.500	31.6	-16.34	54.0	22.40	AV	182.80	150	Vertical	Pass
1	1222.500	40.57	-16.34	74.0	33.43	Peak	182.80	150	Vertical	Pass
2**	1714.000	29.5	-17.14	--	-29.50	AV	150.10	150	Vertical	Pass
2	1714.000	44.77	-17.14	68.2	23.43	Peak	150.10	150	Vertical	Pass
3**	3769.000	34.4	-7.33	54.0	19.60	AV	34.80	150	Vertical	Pass
3	3769.000	42.48	-7.33	74.0	31.52	Peak	34.80	150	Vertical	Pass
4**	5203.000	93.0	-3.35	--	-93.00	AV	309.80	150	Vertical	N/A
4	5203.000	97.97	-3.35	--	211.83	Peak	309.80	150	Vertical	N/A
5**	9094.438	42.4	15.64	54.0	11.60	AV	0.00	150	Vertical	Pass
5	9094.438	49.18	15.64	74.0	24.82	Peak	0.00	150	Vertical	Pass
6**	12553.062	46.6	17.43	54.0	7.40	AV	2.80	150	Vertical	Pass
6	12553.062	54.38	17.43	74.0	19.62	Peak	2.80	150	Vertical	Pass

1 GHz to 40 GHz, ANT H Band I 11n40 Low channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1200.000	35.2	-16.37	54.0	18.80	AV	309.30	150	Horizontal	Pass
1	1200.000	44.62	-16.37	74.0	29.38	Peak	309.30	150	Horizontal	Pass
2**	1693.000	30.0	-17.23	54.0	24.00	AV	55.80	150	Horizontal	Pass
2	1693.000	41.64	-17.23	74.0	32.36	Peak	55.80	150	Horizontal	Pass
3**	3947.000	36.9	-6.86	54.0	17.10	AV	72.30	150	Horizontal	Pass
3	3947.000	42.36	-6.86	74.0	31.64	Peak	72.30	150	Horizontal	Pass
4**	5184.000	96.8	-3.48	--	-96.80	AV	115.90	150	Horizontal	N/A
4	5184.000	99.71	-3.48	--	16.19	Peak	115.90	150	Horizontal	N/A
5**	9104.500	44.4	15.60	54.0	9.60	AV	210.50	150	Horizontal	Pass
5	9104.500	49.29	15.60	74.0	24.71	Peak	210.50	150	Horizontal	Pass
6**	12564.563	46.6	17.70	54.0	7.40	AV	288.10	150	Horizontal	Pass
6	12564.563	53.47	17.70	74.0	20.53	Peak	288.10	150	Horizontal	Pass

1 GHz to 40 GHz, ANT V Band I 11n40 High channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1372.500	29.9	-16.51	54.0	24.10	AV	148.00	150	Vertical	Pass
1	1372.500	40.35	-16.51	74.0	33.65	Peak	148.00	150	Vertical	Pass
2**	1713.000	35.7	-17.10	--	-35.70	AV	148.00	150	Vertical	Pass
2	1713.000	45.96	-17.10	68.2	22.24	Peak	148.00	150	Vertical	Pass
3**	2657.000	32.0	-11.16	--	-32.00	AV	262.90	150	Vertical	Pass
3	2657.000	41.60	-11.16	68.2	26.60	Peak	262.90	150	Vertical	Pass
4**	5219.000	92.5	-2.93	--	-92.50	AV	347.80	150	Vertical	N/A
4	5219.000	98.43	-2.93	--	249.37	Peak	347.80	150	Vertical	N/A
5**	9292.812	43.3	15.36	--	-43.30	AV	56.20	150	Vertical	Pass
5	9292.812	49.65	15.36	68.2	18.55	Peak	56.20	150	Vertical	Pass
6**	12584.688	47.4	18.01	54.0	6.60	AV	1.30	150	Vertical	Pass
6	12584.688	52.89	18.01	74.0	21.11	Peak	1.30	150	Vertical	Pass

1 GHz to 40 GHz, ANT H Band I 11n40 High channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1200.500	36.8	-16.34	54.0	17.20	AV	282.10	150	Horizontal	Pass
1	1200.500	43.49	-16.34	74.0	30.51	Peak	282.10	150	Horizontal	Pass
2**	1723.000	29.5	-17.19	--	-29.50	AV	41.80	150	Horizontal	Pass
2	1723.000	41.74	-17.19	68.2	26.46	Peak	41.80	150	Horizontal	Pass
3**	3730.000	34.7	-7.19	54.0	19.30	AV	28.80	150	Horizontal	Pass
3	3730.000	41.44	-7.19	74.0	32.56	Peak	28.80	150	Horizontal	Pass
4**	5241.000	94.8	-2.36	--	-94.80	AV	111.20	150	Horizontal	N/A
4	5241.000	101.70	-2.36	--	9.50	Peak	111.20	150	Horizontal	N/A
5**	9074.312	43.1	15.56	54.0	10.90	AV	88.50	150	Horizontal	Pass
5	9074.312	49.68	15.56	74.0	24.32	Peak	88.50	150	Horizontal	Pass
6**	12599.063	46.6	17.61	54.0	7.40	AV	359.10	150	Horizontal	Pass
6	12599.063	52.91	17.61	74.0	21.09	Peak	359.10	150	Horizontal	Pass

1 GHz to 40 GHz, ANT V Band IV 11a Low channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1200.500	32.7	-16.34	54.0	21.30	AV	78.10	150	Vertical	Pass
1	1200.500	38.00	-16.34	74.0	36.00	Peak	78.10	150	Vertical	Pass
2**	1680.000	35.9	-17.30	54.0	18.10	AV	160.50	150	Vertical	Pass
2	1680.000	45.14	-17.30	74.0	28.86	Peak	160.50	150	Vertical	Pass
3**	3776.000	35.0	-6.98	54.0	19.00	AV	77.30	150	Vertical	Pass
3	3776.000	42.36	-6.98	74.0	31.64	Peak	77.30	150	Vertical	Pass
4**	5742.000	94.4	-2.40	--	-94.40	AV	287.20	150	Vertical	N/A
4	5742.000	98.73	-2.40	--	188.47	Peak	287.20	150	Vertical	N/A
5**	9187.875	42.1	14.94	54.0	11.90	AV	0.00	150	Vertical	Pass
5	9187.875	49.68	14.94	74.0	24.32	Peak	0.00	150	Vertical	Pass
6**	11966.562	46.4	16.79	54.0	7.60	AV	0.00	150	Vertical	Pass
6	11966.562	52.70	16.79	74.0	21.30	Peak	0.00	150	Vertical	Pass

1 GHz to 40 GHz, ANT H Band IV 11a Low channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1199.500	30.6	-16.40	54.0	23.40	AV	299.20	150	Horizontal	Pass
1	1199.500	40.07	-16.40	74.0	33.93	Peak	299.20	150	Horizontal	Pass
2**	1735.000	34.2	-17.08	--	-34.20	AV	36.50	150	Horizontal	Pass
2	1735.000	41.34	-17.08	68.2	26.86	Peak	36.50	150	Horizontal	Pass
3**	3801.000	38.5	-6.85	54.0	15.50	AV	360.00	150	Horizontal	Pass
3	3801.000	42.21	-6.85	74.0	31.79	Peak	360.00	150	Horizontal	Pass
4**	5738.000	95.0	-2.25	--	-95.00	AV	237.80	150	Horizontal	N/A
4	5738.000	100.33	-2.25	--	137.47	Peak	237.80	150	Horizontal	N/A
5**	9239.625	42.9	15.19	--	-42.90	AV	309.00	150	Horizontal	Pass
5	9239.625	49.11	15.19	68.2	19.09	Peak	309.00	150	Horizontal	Pass
6**	12655.126	46.3	17.72	54.0	7.70	AV	321.60	150	Horizontal	Pass
6	12655.126	52.94	17.72	74.0	21.06	Peak	321.60	150	Horizontal	Pass

1 GHz to 40 GHz, ANT V Band IV 11a Middle channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1200.500	32.4	-16.34	54.0	21.60	AV	304.80	150	Vertical	Pass
1	1200.500	38.78	-16.34	74.0	35.22	Peak	304.80	150	Vertical	Pass
2**	1689.500	38.4	-17.34	54.0	15.60	AV	144.50	150	Vertical	Pass
2	1689.500	45.80	-17.34	74.0	28.20	Peak	144.50	150	Vertical	Pass
3**	3194.000	39.8	-7.46	--	-39.80	AV	44.80	150	Vertical	Pass
3	3194.000	42.90	-7.46	68.2	25.30	Peak	44.80	150	Vertical	Pass
4**	5778.000	92.7	-2.62	--	-92.70	AV	293.00	150	Vertical	N/A
4	5778.000	98.42	-2.62	--	194.58	Peak	293.00	150	Vertical	N/A
5**	7599.437	41.2	13.96	54.0	12.80	AV	140.60	150	Vertical	Pass
5	7599.437	48.66	13.96	74.0	25.34	Peak	140.60	150	Vertical	Pass
6**	12499.875	45.5	16.63	54.0	8.50	AV	153.80	150	Vertical	Pass
6	12499.875	52.67	16.63	74.0	21.33	Peak	153.80	150	Vertical	Pass

1 GHz to 40 GHz, ANT H Band IV 11a Middle channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1198.500	31.1	-16.44	54.0	22.90	AV	108.50	150	Horizontal	Pass
1	1198.500	39.10	-16.44	74.0	34.90	Peak	108.50	150	Horizontal	Pass
2**	1698.000	29.4	-17.25	54.0	24.60	AV	55.90	150	Horizontal	Pass
2	1698.000	41.17	-17.25	74.0	32.83	Peak	55.90	150	Horizontal	Pass
3**	3110.000	38.2	-8.86	--	-38.20	AV	348.40	150	Horizontal	Pass
3	3110.000	42.03	-8.86	68.2	26.17	Peak	348.40	150	Horizontal	Pass
4**	5790.000	95.8	-2.52	--	-95.80	AV	238.20	150	Horizontal	N/A
4	5790.000	100.35	-2.52	--	137.85	Peak	238.20	150	Horizontal	N/A
5**	7598.000	41.7	13.95	54.0	12.30	AV	268.20	150	Horizontal	Pass
5	7598.000	48.42	13.95	74.0	25.58	Peak	268.20	150	Horizontal	Pass
6**	12061.438	48.0	16.82	54.0	6.00	AV	82.00	150	Horizontal	Pass
6	12061.438	53.17	16.82	74.0	20.83	Peak	82.00	150	Horizontal	Pass

1 GHz to 40 GHz, ANT V Band IV 11a High channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1200.000	30.5	-16.37	54.0	23.50	AV	190.70	150	Vertical	Pass
1	1200.000	39.60	-16.37	74.0	34.40	Peak	190.70	150	Vertical	Pass
2**	1675.500	37.4	-17.44	54.0	16.60	AV	147.40	150	Vertical	Pass
2	1675.500	45.38	-17.44	74.0	28.62	Peak	147.40	150	Vertical	Pass
3**	4065.000	37.9	-7.33	54.0	16.10	AV	120.60	150	Vertical	Pass
3	4065.000	42.75	-7.33	74.0	31.25	Peak	120.60	150	Vertical	Pass
4**	5832.000	93.9	-2.59	--	-93.90	AV	292.40	150	Vertical	N/A
4	5832.000	98.83	-2.59	--	193.57	Peak	292.40	150	Vertical	N/A
5**	9166.312	43.7	15.38	54.0	10.30	AV	30.40	150	Vertical	Pass
5	9166.312	49.29	15.38	74.0	24.71	Peak	30.40	150	Vertical	Pass
6**	12452.437	46.0	17.17	54.0	8.00	AV	346.80	150	Vertical	Pass
6	12452.437	53.02	17.17	74.0	20.98	Peak	346.80	150	Vertical	Pass

1 GHz to 40 GHz, ANT H Band IV 11a High channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1200.000	30.9	-16.37	54.0	23.10	AV	103.60	150	Horizontal	Pass
1	1200.000	39.10	-16.37	74.0	34.90	Peak	103.60	150	Horizontal	Pass
2**	1688.500	29.3	-17.31	54.0	24.70	AV	39.90	150	Horizontal	Pass
2	1688.500	41.24	-17.31	74.0	32.76	Peak	39.90	150	Horizontal	Pass
3**	3947.000	36.1	-6.86	54.0	17.90	AV	127.60	150	Horizontal	Pass
3	3947.000	42.61	-6.86	74.0	31.39	Peak	127.60	150	Horizontal	Pass
4**	5821.000	95.8	-2.95	--	-95.80	AV	171.50	150	Horizontal	N/A
4	5821.000	100.51	-2.95	--	70.99	Peak	171.50	150	Horizontal	N/A
5**	9151.938	42.8	15.50	54.0	11.20	AV	210.20	150	Horizontal	Pass
5	9151.938	49.11	15.50	74.0	24.89	Peak	210.20	150	Horizontal	Pass
6**	12586.125	46.8	17.97	54.0	7.20	AV	23.60	150	Horizontal	Pass
6	12586.125	53.12	17.97	74.0	20.88	Peak	23.60	150	Horizontal	Pass

1 GHz to 40 GHz, ANT V Band IV 11n20 Low channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1355.000	28.9	-16.41	54.0	25.10	AV	141.80	150	Vertical	Pass
1	1355.000	39.68	-16.41	74.0	34.32	Peak	141.80	150	Vertical	Pass
2**	1657.500	35.3	-17.30	--	-35.30	AV	157.20	150	Vertical	Pass
2	1657.500	45.13	-17.30	68.2	23.07	Peak	157.20	150	Vertical	Pass
3**	4749.000	39.2	-4.77	54.0	14.80	AV	353.30	150	Vertical	Pass
3	4749.000	44.21	-4.77	74.0	29.79	Peak	353.30	150	Vertical	Pass
4**	5749.000	95.7	-2.44	--	-95.70	AV	293.10	150	Vertical	N/A
4	5749.000	99.04	-2.44	--	194.06	Peak	293.10	150	Vertical	N/A
5**	7550.562	42.1	13.38	54.0	11.90	AV	30.10	150	Vertical	Pass
5	7550.562	48.27	13.38	74.0	25.73	Peak	30.10	150	Vertical	Pass
6**	12586.125	46.8	17.97	54.0	7.20	AV	255.50	150	Vertical	Pass
6	12586.125	53.13	17.97	74.0	20.87	Peak	255.50	150	Vertical	Pass

1 GHz to 40 GHz, ANT H Band IV 11n20 Low channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1215.500	33.1	-16.34	54.0	20.90	AV	293.70	150	Horizontal	Pass
1	1215.500	40.39	-16.34	74.0	33.61	Peak	293.70	150	Horizontal	Pass
2**	1667.500	29.6	-17.36	54.0	24.40	AV	56.30	150	Horizontal	Pass
2	1667.500	40.89	-17.36	74.0	33.11	Peak	56.30	150	Horizontal	Pass
3**	4554.000	38.3	-5.77	54.0	15.70	AV	210.80	150	Horizontal	Pass
3	4554.000	44.36	-5.77	74.0	29.64	Peak	210.80	150	Horizontal	Pass
4**	5739.000	95.0	-2.33	--	-95.00	AV	100.70	150	Horizontal	N/A
4	5739.000	100.30	-2.33	--	0.40	Peak	100.70	150	Horizontal	N/A
5**	9078.625	43.2	15.67	54.0	10.80	AV	287.40	150	Horizontal	Pass
5	9078.625	49.44	15.67	74.0	24.56	Peak	287.40	150	Horizontal	Pass
6**	12645.063	48.3	17.68	54.0	5.70	AV	326.50	150	Horizontal	Pass
6	12645.063	53.52	17.68	74.0	20.48	Peak	326.50	150	Horizontal	Pass

1 GHz to 40 GHz, ANT V Band IV 11n20 Middle channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1401.500	28.5	-16.41	54.0	25.50	AV	70.40	150	Vertical	Pass
1	1401.500	39.59	-16.41	74.0	34.41	Peak	70.40	150	Vertical	Pass
2**	1714.500	27.8	-17.16	--	-27.80	AV	152.60	150	Vertical	Pass
2	1714.500	46.94	-17.16	68.2	21.26	Peak	152.60	150	Vertical	Pass
3**	4057.000	38.7	-7.26	54.0	15.30	AV	132.50	150	Vertical	Pass
3	4057.000	42.24	-7.26	74.0	31.76	Peak	132.50	150	Vertical	Pass
4**	5793.000	94.5	-2.57	--	-94.50	AV	298.50	150	Vertical	N/A
4	5793.000	98.15	-2.57	--	200.35	Peak	298.50	150	Vertical	N/A
5**	7608.062	43.5	14.03	54.0	10.50	AV	294.50	150	Vertical	Pass
5	7608.062	48.73	14.03	74.0	25.27	Peak	294.50	150	Vertical	Pass
6**	11832.875	46.8	16.55	54.0	7.20	AV	172.90	150	Vertical	Pass
6	11832.875	51.57	16.55	74.0	22.43	Peak	172.90	150	Vertical	Pass

1 GHz to 40 GHz, ANT H Band IV 11n20 Middle channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1202.000	30.7	-16.34	54.0	23.30	AV	109.40	150	Horizontal	Pass
1	1202.000	38.44	-16.34	74.0	35.56	Peak	109.40	150	Horizontal	Pass
2**	1723.500	27.0	-17.21	--	-27.00	AV	46.30	150	Horizontal	Pass
2	1723.500	40.44	-17.21	68.2	27.76	Peak	46.30	150	Horizontal	Pass
3**	3866.000	37.6	-7.66	54.0	16.40	AV	360.00	150	Horizontal	Pass
3	3866.000	42.00	-7.66	74.0	32.00	Peak	360.00	150	Horizontal	Pass
4**	5783.000	94.9	-2.60	--	-94.90	AV	237.40	150	Horizontal	N/A
4	5783.000	100.04	-2.60	--	137.36	Peak	237.40	150	Horizontal	N/A
5**	7403.937	42.1	13.59	54.0	11.90	AV	281.80	150	Horizontal	Pass
5	7403.937	47.92	13.59	74.0	26.08	Peak	281.80	150	Horizontal	Pass
6**	12544.437	46.9	17.24	54.0	7.10	AV	17.10	150	Horizontal	Pass
6	12544.437	52.82	17.24	74.0	21.18	Peak	17.10	150	Horizontal	Pass

1 GHz to 40 GHz, ANT V Band IV 11n20 High channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1324.500	29.7	-16.20	54.0	24.30	AV	146.00	150	Vertical	Pass
1	1324.500	37.92	-16.20	74.0	36.08	Peak	146.00	150	Vertical	Pass
2**	1697.500	29.1	-17.28	54.0	24.90	AV	146.00	150	Vertical	Pass
2	1697.500	44.91	-17.28	74.0	29.09	Peak	146.00	150	Vertical	Pass
3**	4317.000	36.3	-6.15	54.0	17.70	AV	0.00	150	Vertical	Pass
3	4317.000	42.71	-6.15	74.0	31.29	Peak	0.00	150	Vertical	Pass
4**	5823.000	93.2	-2.84	--	-93.20	AV	298.40	150	Vertical	N/A
4	5823.000	97.93	-2.84	--	200.47	Peak	298.40	150	Vertical	N/A
5**	9105.937	44.5	15.59	54.0	9.50	AV	313.70	150	Vertical	Pass
5	9105.937	49.86	15.59	74.0	24.14	Peak	313.70	150	Vertical	Pass
6**	12302.937	46.7	17.15	54.0	7.30	AV	300.80	150	Vertical	Pass
6	12302.937	52.50	17.15	74.0	21.50	Peak	300.80	150	Vertical	Pass

1 GHz to 40 GHz, ANT H Band IV 11n20 High channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1401.500	28.5	-16.41	54.0	25.50	AV	70.40	150	Vertical	Pass
1	1401.500	39.59	-16.41	74.0	34.41	Peak	70.40	150	Vertical	Pass
2**	1714.500	27.8	-17.16	--	-27.80	AV	152.60	150	Vertical	Pass
2	1714.500	46.94	-17.16	68.2	21.26	Peak	152.60	150	Vertical	Pass
3**	4057.000	38.7	-7.26	54.0	15.30	AV	132.50	150	Vertical	Pass
3	4057.000	42.24	-7.26	74.0	31.76	Peak	132.50	150	Vertical	Pass
4**	5793.000	94.5	-2.57	--	-94.50	AV	298.50	150	Vertical	N/A
4	5793.000	98.15	-2.57	--	200.35	Peak	298.50	150	Vertical	N/A
5**	7608.062	43.5	14.03	54.0	10.50	AV	294.50	150	Vertical	Pass
5	7608.062	48.73	14.03	74.0	25.27	Peak	294.50	150	Vertical	Pass
6**	11832.875	46.8	16.55	54.0	7.20	AV	172.90	150	Vertical	Pass
6	11832.875	51.57	16.55	74.0	22.43	Peak	172.90	150	Vertical	Pass

1 GHz to 40 GHz, ANT V Band IV 11n40 Low channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1430.500	27.6	-16.68	--	-27.60	AV	157.70	150	Vertical	Pass
1	1430.500	39.94	-16.68	68.2	28.26	Peak	157.70	150	Vertical	Pass
2**	1651.500	38.9	-17.29	--	-38.90	AV	157.70	150	Vertical	Pass
2	1651.500	45.99	-17.29	68.2	22.21	Peak	157.70	150	Vertical	Pass
3**	4738.000	40.4	-5.11	54.0	13.60	AV	282.40	150	Vertical	Pass
3	4738.000	44.50	-5.11	74.0	29.50	Peak	282.40	150	Vertical	Pass
4**	5747.000	91.5	-2.39	--	-91.50	AV	293.40	150	Vertical	N/A
4	5747.000	95.81	-2.39	--	197.59	Peak	293.40	150	Vertical	N/A
5**	9110.250	43.1	15.57	54.0	10.90	AV	0.00	150	Vertical	Pass
5	9110.250	49.30	15.57	74.0	24.70	Peak	0.00	150	Vertical	Pass
6**	12055.687	46.4	16.82	54.0	7.60	AV	0.00	150	Vertical	Pass
6	12055.687	52.17	16.82	74.0	21.83	Peak	0.00	150	Vertical	Pass

1 GHz to 40 GHz, ANT H Band IV 11n40 Low channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1196.500	30.4	-16.40	54.0	23.60	AV	108.90	150	Horizontal	Pass
1	1196.500	38.71	-16.40	74.0	35.29	Peak	108.90	150	Horizontal	Pass
2**	1717.000	34.3	-17.08	--	-34.30	AV	41.20	150	Horizontal	Pass
2	1717.000	41.66	-17.08	68.2	26.54	Peak	41.20	150	Horizontal	Pass
3**	4148.000	36.0	-6.97	54.0	18.00	AV	175.90	150	Horizontal	Pass
3	4148.000	42.15	-6.97	74.0	31.85	Peak	175.90	150	Horizontal	Pass
4**	5765.000	92.8	-2.71	--	-92.80	AV	237.30	150	Horizontal	N/A
4	5765.000	97.39	-2.71	--	139.91	Peak	237.30	150	Horizontal	N/A
5**	7671.312	43.8	13.75	54.0	10.20	AV	5.60	150	Horizontal	Pass
5	7671.312	48.89	13.75	74.0	25.11	Peak	5.60	150	Horizontal	Pass
6**	12471.125	45.4	16.92	54.0	8.60	AV	353.50	150	Horizontal	Pass
6	12471.125	52.29	16.92	74.0	21.71	Peak	353.50	150	Horizontal	Pass

1 GHz to 40 GHz, ANT V Band IV 11n40 High channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1313.500	27.1	-16.06	54.0	26.90	AV	137.80	150	Vertical	Pass
1	1313.500	39.19	-16.06	74.0	34.81	Peak	137.80	150	Vertical	Pass
2**	1691.000	37.0	-17.27	54.0	17.00	AV	156.90	150	Vertical	Pass
2	1691.000	44.44	-17.27	74.0	29.56	Peak	156.90	150	Vertical	Pass
3**	3194.000	37.2	-7.46	--	-37.20	AV	160.50	150	Vertical	Pass
3	3194.000	42.66	-7.46	68.2	25.54	Peak	160.50	150	Vertical	Pass
4**	5801.000	91.0	-2.86	--	-91.00	AV	287.60	150	Vertical	N/A
4	5801.000	95.98	-2.86	--	191.62	Peak	287.60	150	Vertical	N/A
5**	9130.375	43.6	15.50	54.0	10.40	AV	290.20	150	Vertical	Pass
5	9130.375	48.97	15.50	74.0	25.03	Peak	290.20	150	Vertical	Pass
6**	12039.875	46.1	16.72	54.0	7.90	AV	108.80	150	Vertical	Pass
6	12039.875	52.02	16.72	74.0	21.98	Peak	108.80	150	Vertical	Pass

1 GHz to 40 GHz, ANT H Band IV 11n40 High channel

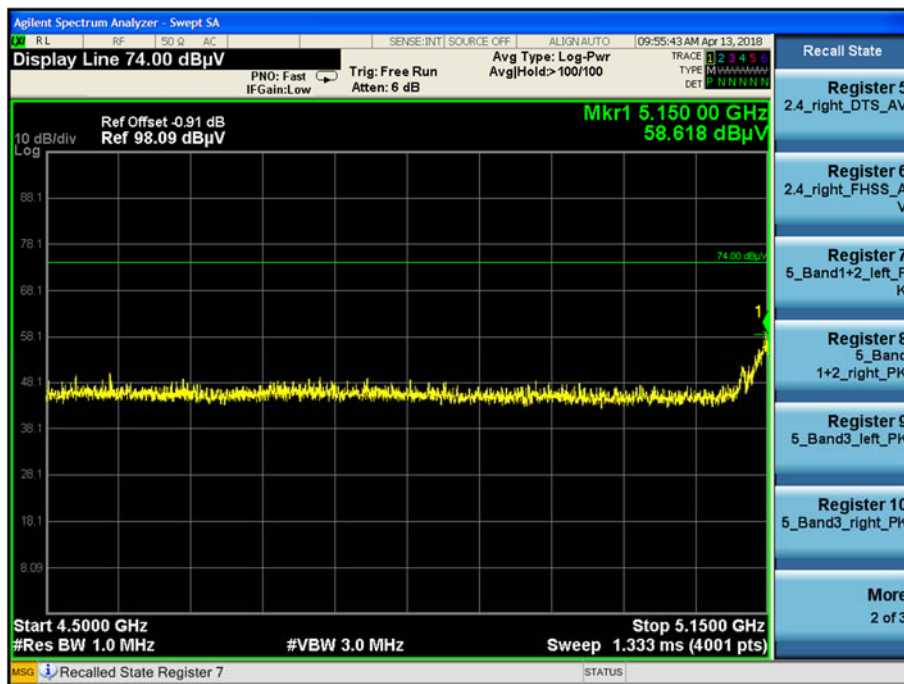
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1196.500	30.2	-16.40	54.0	23.80	AV	99.40	150	Horizontal	Pass
1	1196.500	38.88	-16.40	74.0	35.12	Peak	99.40	150	Horizontal	Pass
2**	1695.000	30.0	-17.30	54.0	24.00	AV	56.10	150	Horizontal	Pass
2	1695.000	41.26	-17.30	74.0	32.74	Peak	56.10	150	Horizontal	Pass
3**	4756.000	39.8	-4.64	54.0	14.20	AV	309.70	150	Horizontal	Pass
3	4756.000	44.10	-4.64	74.0	29.90	Peak	309.70	150	Horizontal	Pass
4**	5806.000	93.4	-2.86	--	-93.40	AV	243.70	150	Horizontal	N/A
4	5806.000	97.43	-2.86	--	146.27	Peak	243.70	150	Horizontal	N/A
5**	9187.875	44.3	14.94	54.0	9.70	AV	30.10	150	Horizontal	Pass
5	9187.875	49.50	14.94	74.0	24.50	Peak	30.10	150	Horizontal	Pass
6**	12432.312	46.7	17.32	54.0	7.30	AV	5.70	150	Horizontal	Pass
6	12432.312	52.56	17.32	74.0	21.44	Peak	5.70	150	Horizontal	Pass

A.7.2 Band Edge (Restricted-band)

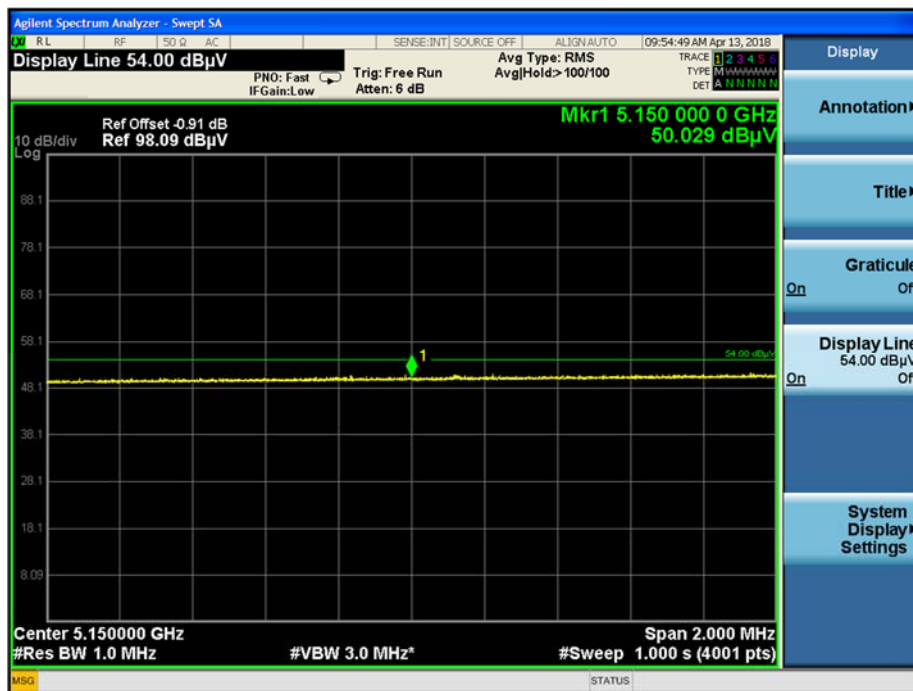
Test Band	Mode	Channel	Verdict
Band I	802.11a	Low	Pass
		High	Pass
	802.11n(HT20)	Low	Pass
		High	Pass
	802.11n(HT40)	Low	Pass
		High	Pass
Band IV	802.11a	Low	Pass
		High	Pass
	802.11n(HT20)	Low	Pass
		High	Pass
	802.11n(HT40)	Low	Pass
		High	Pass

Test Plots

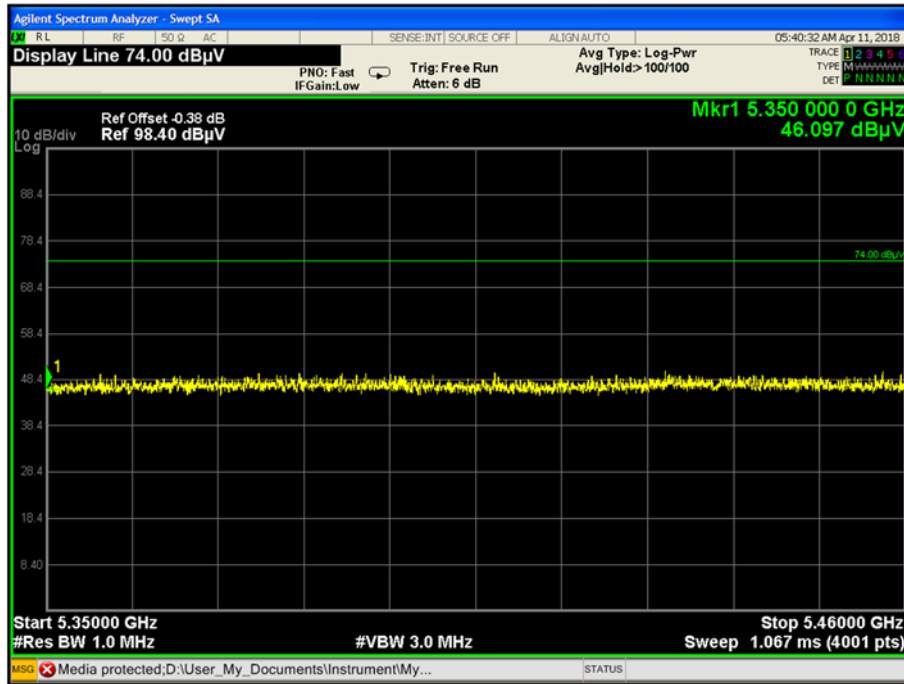
Band I 11a CH36 Peak



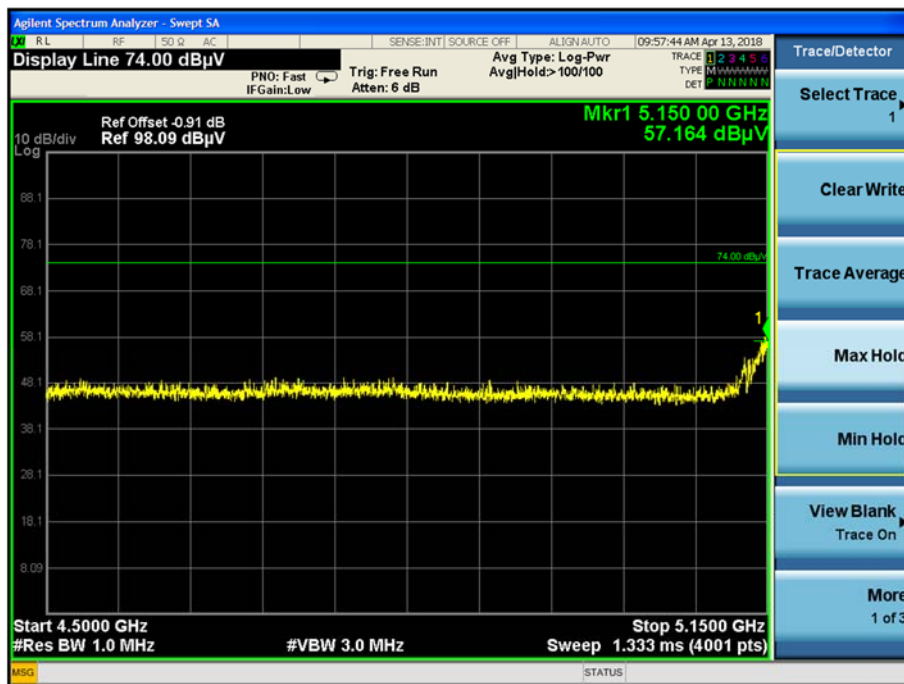
Band I 11a CH36 AV



Band I 11a CH48 Peak



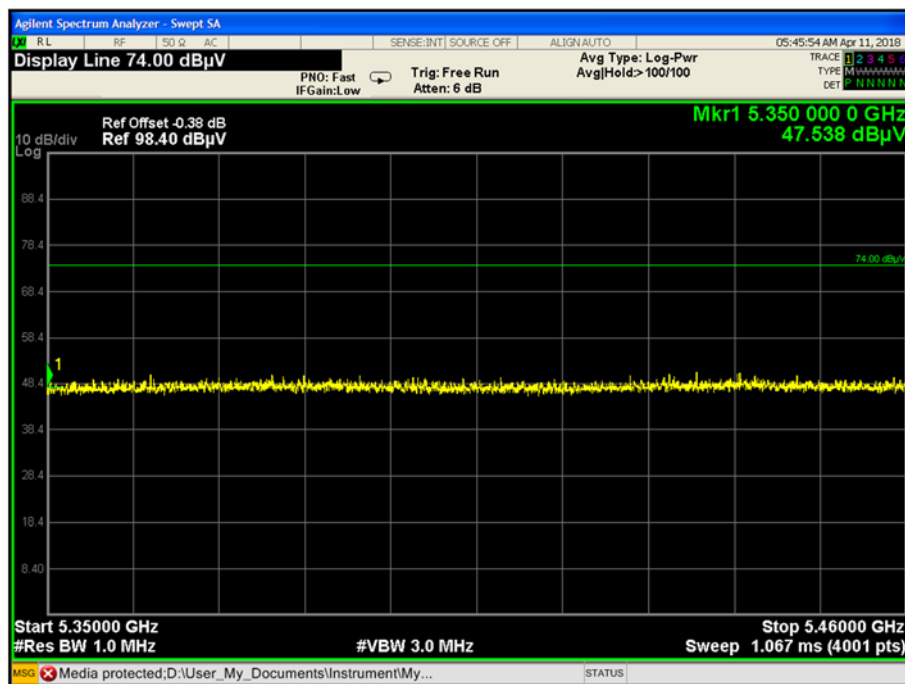
Band I 11n(HT20) CH36 Peak



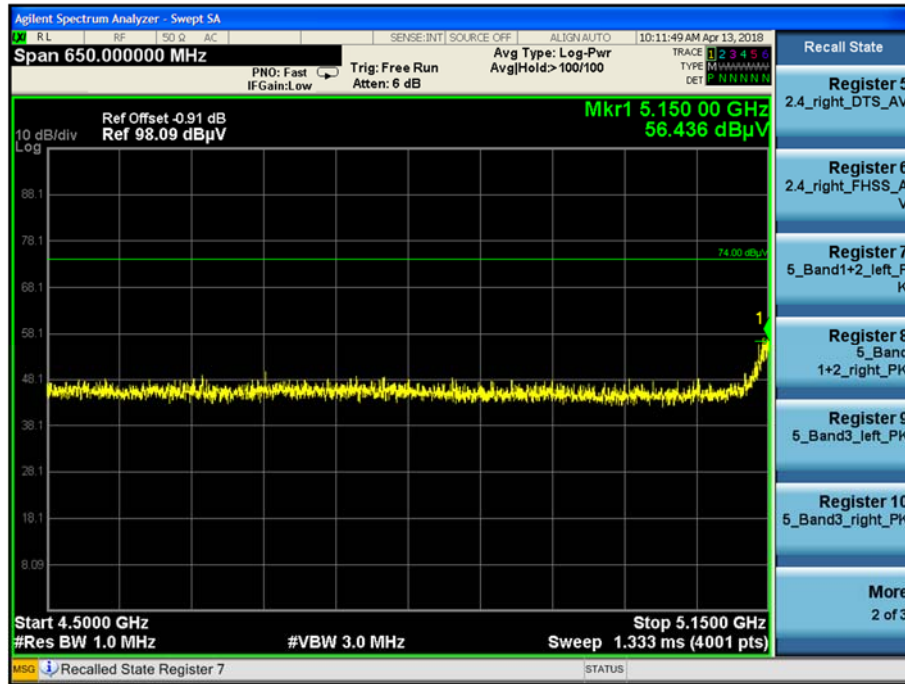
Band I 11n(HT20) CH36 AV



Band I 11n(HT20) CH48



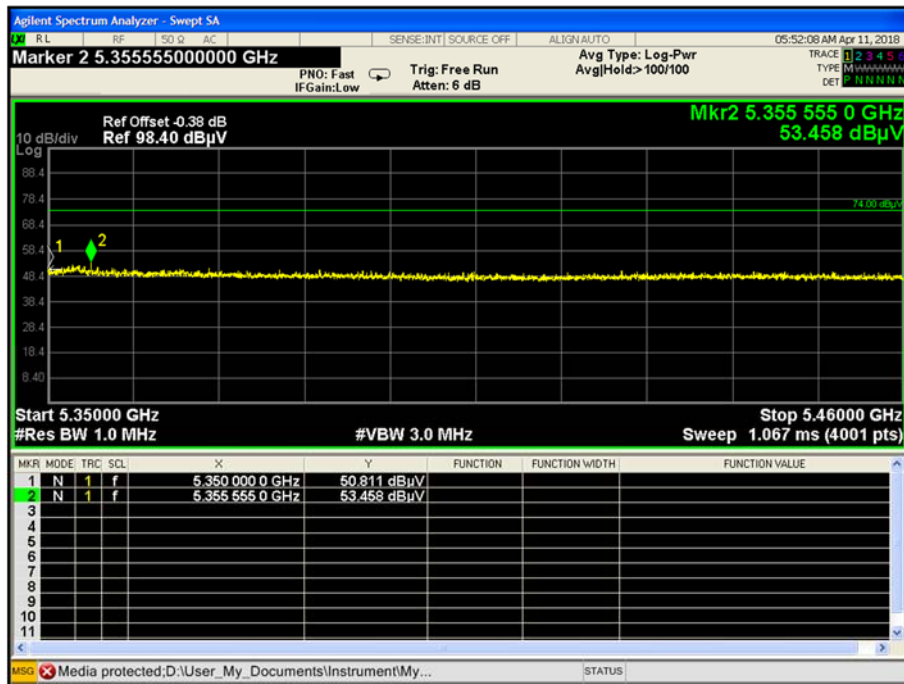
Band I 11n(HT40) CH38 Peak



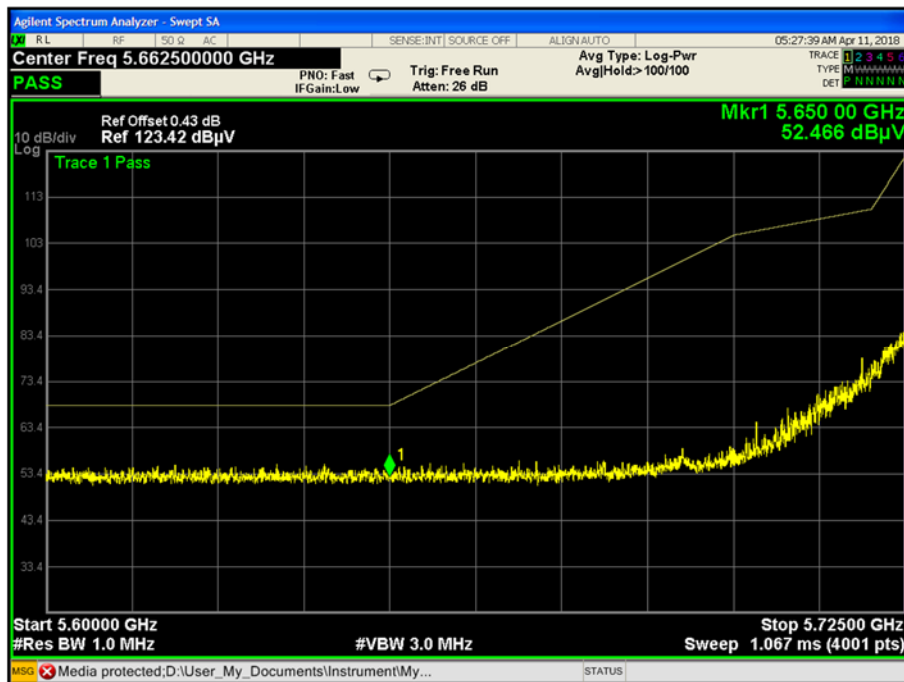
Band I 11n(HT40) CH38 AV



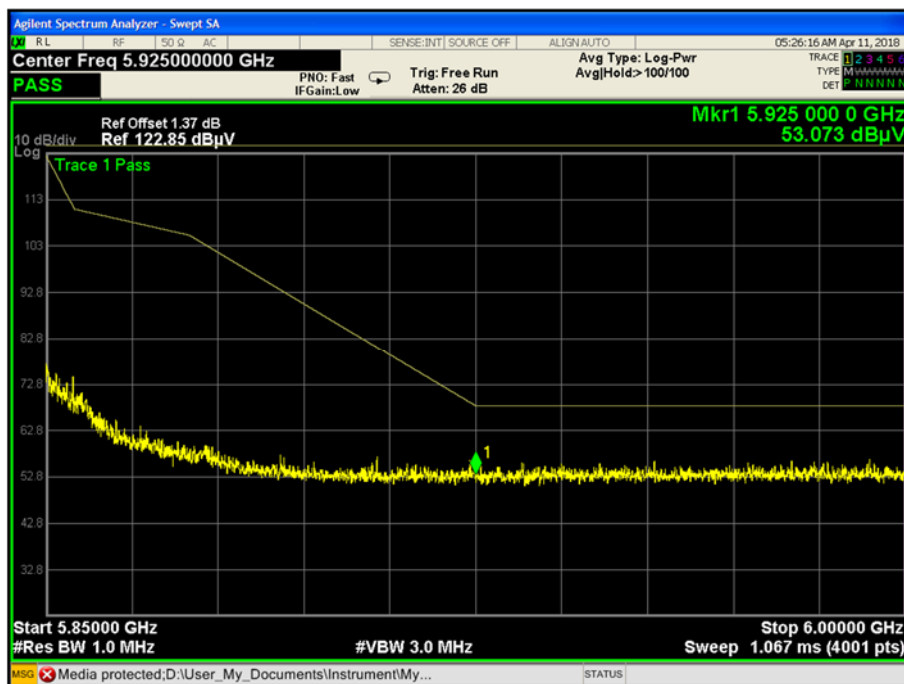
Band I 11n(HT40) CH46



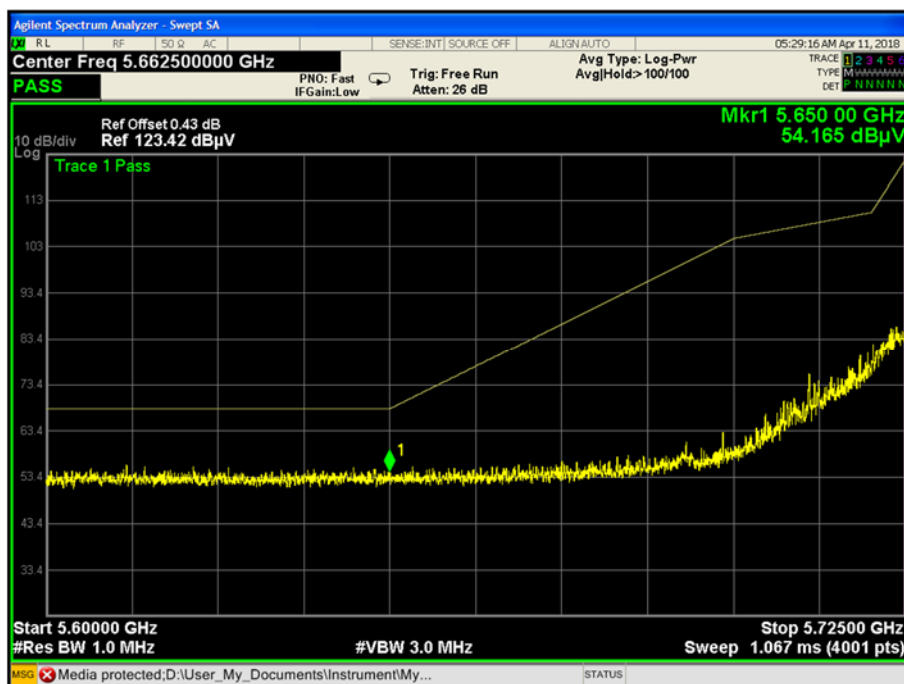
Band IV 11a CH149



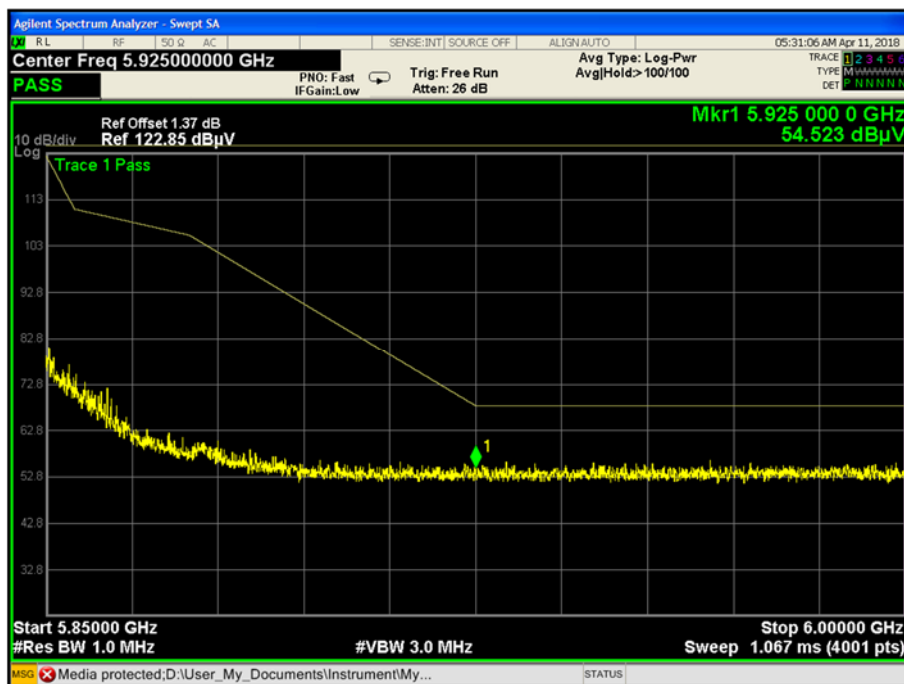
Band IV 11a CH165



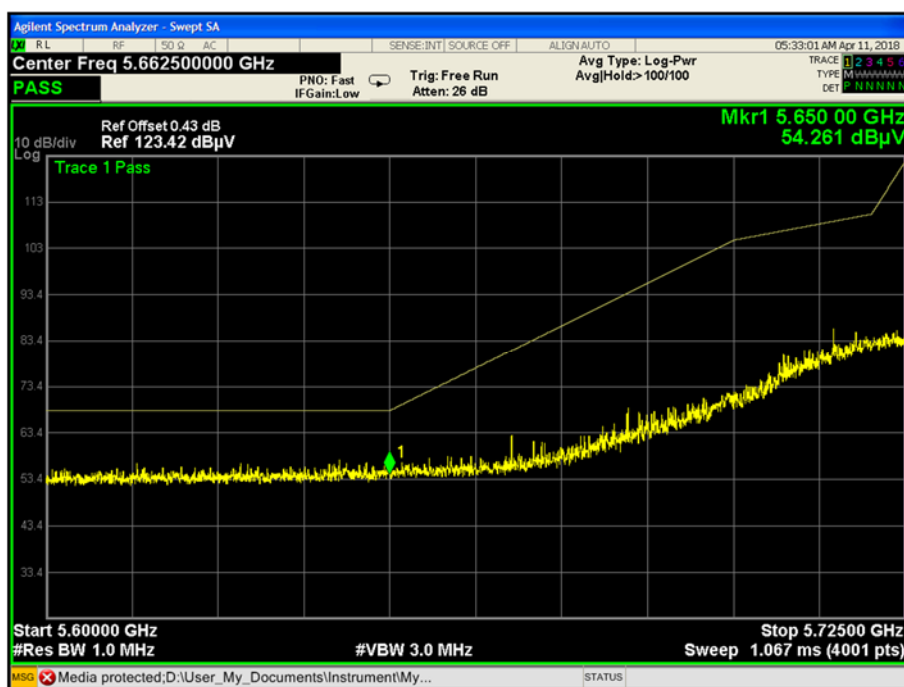
Band IV 11n(HT20) CH149



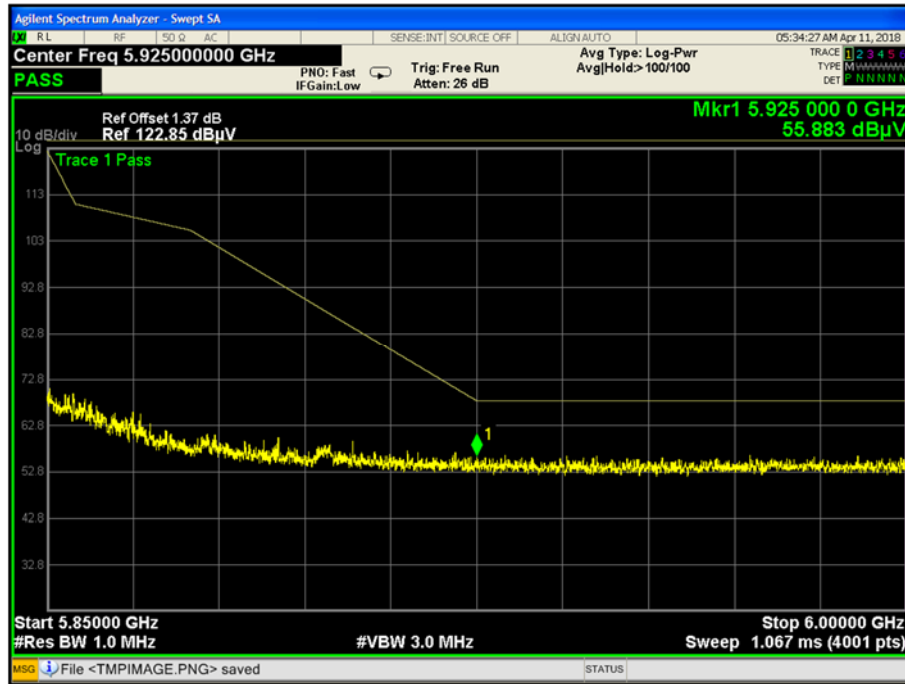
Band IV 11n(HT20) CH165



Band IV 11n(HT40) CH151



Band IV 11n(HT40) CH159



A.8 Frequency Stability

Measurement Data (the worst channel)

Voltage vs. Frequency Stability (5180 MHz)

Test Conditions		Test Frequency (MHz)	0 Minute		2 Minute		5 Minute		10Minute	
TEMP. (°C)	Voltage (VDC)		Measurement Frequency (MHz)	Max. Deviation (ppm)	Measurement Frequency (MHz)	Max. Deviation (ppm)	Measurement Frequency (MHz)	Max. Deviation (ppm)	Measurement Frequency (MHz)	Max. Deviation (ppm)
20	6.5	5180	5180.06253	12.07	5180.017261	3.33	5180.019847	3.83	5180.055131	10.64
	7.2	5180	5180.024476	4.73	5180.054508	10.52	5180.013646	2.63	5180.000387	0.07
	8.0	5180	5180.016723	3.23	5180.065584	12.66	5180.039509	7.63	5179.994499	-1.06

Temperature vs. Frequency Stability (5180 MHz)

Test Conditions		Test Frequency (MHz)	0 Minute		2 Minute		5 Minute		10Minute	
Voltage (VDC)	TEMP. (°C)		Measurement Frequency (MHz)	Max. Deviation (ppm)	Measurement Frequency (MHz)	Max. Deviation (ppm)	Measurement Frequency (MHz)	Max. Deviation (ppm)	Measurement Frequency (MHz)	Max. Deviation (ppm)
7.2	0	5180	5180.035332	6.82	5180.031421	6.07	5180.041126	7.94	5179.992764	-1.40
	10	5180	5180.010695	2.06	5179.997212	-0.54	5179.992485	-1.45	5179.987879	-2.34
	20	5180	5180.066255	12.79	5180.028487	5.50	5180.072462	13.99	5180.058734	11.34
	30	5180	5180.063419	12.24	5180.02169	4.19	5180.063657	12.29	5180.077175	14.90
	40	5180	5180.00231	0.45	5179.994331	-1.09	5180.011458	2.21	5179.980735	-3.72
	50	5180	5180.057193	11.04	5180.010644	2.05	5180.006721	1.30	5179.982019	-3.47

Voltage vs. Frequency Stability (5745 MHz)

Test Conditions		Test Frequency (MHz)	0 Minute		2 Minute		5 Minute		10Minute	
TEMP. (°C)	Voltage (VDC)		Measurement Frequency (MHz)	Max. Deviation (ppm)	Measurement Frequency (MHz)	Max. Deviation (ppm)	Measurement Frequency (MHz)	Max. Deviation (ppm)	Measurement Frequency (MHz)	Max. Deviation (ppm)
20	6.5	5745	5744.989717	-1.79	5745.041208	7.17	5745.001268	0.22	5745.061834	10.76
	7.2	5745	5745.02436	4.24	5744.997462	-0.44	5745.015557	2.71	5745.06885	11.98
	8.0	5745	5744.985631	-2.50	5744.977977	-3.83	5745.007331	1.28	5745.056319	9.80

Temperature vs. Frequency Stability (5745 MHz)

Test Conditions		Test Frequency (MHz)	0 Minute		2 Minute		5 Minute		10Minute	
Voltage (VDC)	TEMP. (°C)		Measurement Frequency (MHz)	Max. Deviation (ppm)	Measurement Frequency (MHz)	Max. Deviation (ppm)	Measurement Frequency (MHz)	Max. Deviation (ppm)	Measurement Frequency (MHz)	Max. Deviation (ppm)
7.2	0	5745	5745.062669	10.91	5744.979346	-3.60	5745.011699	2.04	5744.984047	-2.78
	10	5745	5745.072233	12.57	5745.0238	4.14	5744.99773	-0.40	5745.00566	0.99
	20	5745	5745.010954	1.91	5745.038692	6.73	5745.012924	2.25	5744.996314	-0.64
	30	5745	5745.025504	4.44	5745.031293	5.45	5744.980747	-3.35	5745.005733	1.00
	40	5745	5744.991584	-1.46	5745.005192	0.90	5745.031871	5.55	5744.999624	-0.07
	50	5745	5745.054911	9.56	5745.0382	6.65	5744.982682	-3.01	5745.074311	12.93

ANNEX B TEST SETUP PHOTOS

Please refer the document "BL-SZ1840014-AR.PDF".

ANNEX C EUT EXTERNAL PHOTOS

Please refer the document "BL- SZ1840014-AW.PDF".

ANNEX D EUT INTERNAL PHOTOS

Please refer the document "BL- SZ1840014-AI.PDF".

--END OF REPORT--