

FCC

RF

TEST REPORT

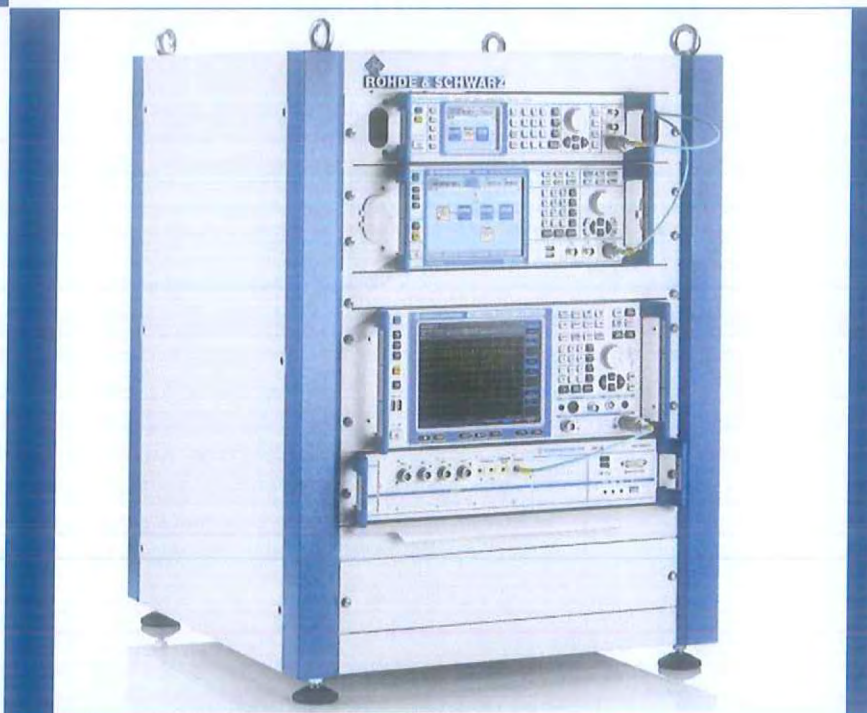
ISSUED BY
Shenzhen BALUN Technology Co., Ltd.



FOR
Smart Projector

ISSUED TO
SHENZHEN HOLATEK CO., LTD.

Rm.1001, Unit 4, Bld.B, Kexing Science Park, Keyuan Road, Nanshan District, Shenzhen, China



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Date: Jun. 22, 2018

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Date: Jun. 22, 2018

Report No.: BL-SZ1840394-604
EUT Name: Smart Projector
Model Name: N7L (refer section 2.4)
Brand Name: JMGO
Test Standard: 47 CFR Part 15 Subpart E
FCC ID: SMC-M61

Test Conclusion: Pass
Test Date: May 07, 2018 ~ Jun. 22, 2018
Date of Issue: Jun. 22, 2018

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Revision History

Version	Issue Date	Revisions Content
<u>Rev. 01</u>	<u>Jun. 15, 2018</u>	<u>Initial Issue</u>
<u>Rev. 02</u>	<u>Jun. 22, 2018</u>	<u>Update the Description of Model name differentiation in section 2.4, Delete the directional gain calculator on page 6.retest the 26dB bandwidth and update the data on page 31 and data part 1.</u>

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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	<p>The laboratory has been listed by Industry Canada to perform electromagnetic emission measurements. The recognition numbers of test site are 11524A-1.</p> <p>The laboratory is a testing organization accredited by FCC as a accredited testing laboratory. The designation number is CN1196.</p> <p>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.</p> <p>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.</p>
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	SHENZHEN HOLATEK CO., LTD.
Address	Rm.1001, Unit 4, Bld.B, Kexing Science Park, Keyuan Road, Nanshan District, Shenzhen, China

2.2 Manufacturer

Manufacturer	SHENZHEN HOLATEK CO., LTD.
Address	Rm.1001, Unit 4, Bld.B, Kexing Science Park, Keyuan Road, Nanshan District, Shenzhen, China

2.3 Factory

Factory	FOXSTAR TECHNOLOGY CO., LTD
Address	Building4, Foxconn District, Longsheng Industrial Park, LONGSHENG ROAD, 473000 NANYANG CITY, HENNAN PROVINCE, CHINA

2.4 General Description for Equipment under Test (EUT)

EUT Type	Smart Projector
Model Name Under Test	N7L
Series Model Name	G7, N7H, N70, G7S, G7 Pro
Description of Model name differentiation	Only with different model name for marketing purpose.
Hardware Version	M61 MB Ver D
Software Version	1.0.16
Dimensions (Approx.)	N/A
Weight (Approx.)	N/A

2.5 Ancillary Equipment

Ancillary Equipment 1	Adapter	
	Brand Name	Huntkey
	Model No.	HKA09019047-6P
	Serial No.	N/A
	Rated Input	100-240 V~, 50 / 60 Hz, 1.5 A
	Rated Output	19 V= 4.74 A

2.6 Technical Information

Network and Wireless connectivity	Bluetooth 3.0, Bluetooth 4.1 Low Energy (BLE), WIFI 802.11a,802.11b, 802.11g and 802.11n (HT20/40), 802.11ac
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Frequency Range	Band I: 5150 MHz to 5250 MHz, Band IV: 5725 MHz to 5850 MHz	
Product Type	<input checked="" type="checkbox"/> Mobile <input type="checkbox"/> Portable <input type="checkbox"/> 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 802.11ac: up to VHT-MCS9	
Channel Bandwidth	802.11a: 20 MHz 802.11n: 20 MHz, 40 MHz 802.11ac: 20 MHz, 40 MHz, 80 MHz	
Maximum Output Power	Band I: 9.96 dBm Band IV: 13.34 dBm	
Antenna System (eg., MIMO, Smart Antenna)	N/A	
Categorization as Correlated or Completely Uncorrelated	N/A	
Antenna Type	Antenna 1 (ANT 1) Antenna 2 (ANT 2)	PIFA Antenna
Antenna Gain	Antenna 1 (ANT 1)	Band I: 5150 MHz to 5250 MHz: 4.0 dBi Band IV: 5725 MHz to 5850 MHz: 4.0 dBi
	Antenna 2 (ANT 2)	Band I: 5150 MHz to 5250 MHz: 3.5 dBi Band IV: 5725 MHz to 5850 MHz: 3.5 dBi
About the Product	The equipment is Smart Projector, intended for used with information technology equipment.	

Note:

1. The product contains two RF modules(**F21AUUM13-W2 and BT8633**).

2. F21AUUM13-W2 module:

Supports IEEE 802.11 a/b/g/n/ac(1TX/1RX) and Bluetooth.

Supports two transmit chains which marked as ANT1 and ANT2 for testing in the report.

Both ANT 1 and ANT 2 support transmit and receive functions of IEEE 802.11 a/b/g/n/ac , but only one of them will be used at one time.

Both ANT 1 and ANT 2 support transmit and receive functions of Bluetooth , but only one of them will be used at one time.

3. BT8633 module:

Only supports Bluetooth.

4. F21AUUM13-W2 module and BT8633 module can not be used at one time.

2.7 Additional Instructions

Mode	<input checked="" type="checkbox"/> 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.

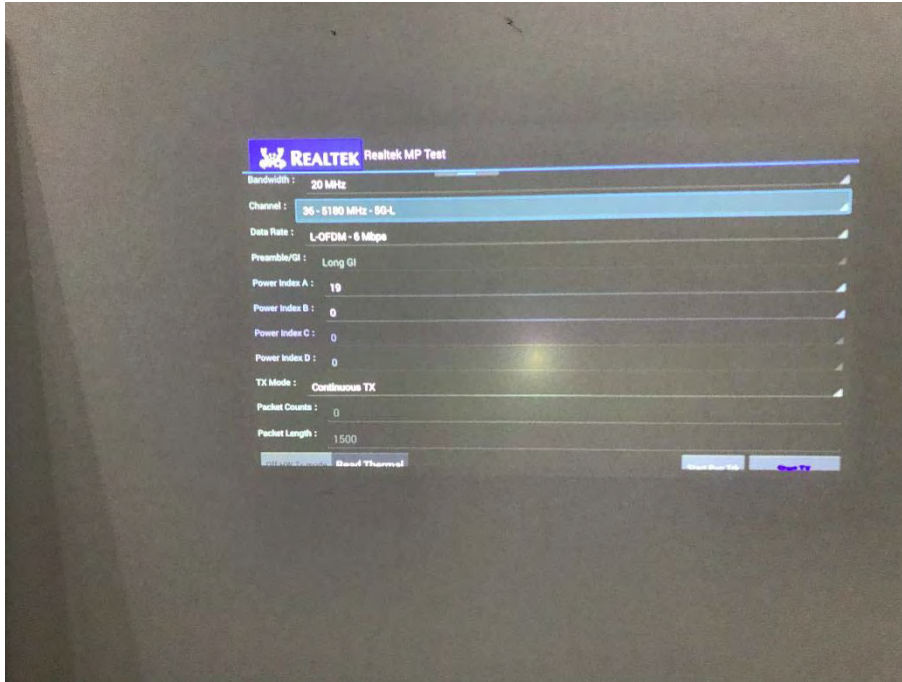
EUT Software Settings:

Test Software Version	MP Test		
Support Units (Software installation media)	Description	Manufacturer	Model
	Notebook	Lenovo	X220

Band I (5150 - 5250 MHz) Power level setup in software				
Mode	Channel	Frequency (MHz)	Soft Set	
11a	CH36	5180	16.0	16.0
11a	CH44	5220	14.0	14.0
11a	CH48	5240	14.0	14.0
11n (HT20)	CH36	5180	16.0	16.0
11n (HT20)	CH44	5220	14.0	14.0
11n (HT20)	CH48	5240	14.0	14.0
11n (HT40)	CH38	5190	16.0	16.0
11n (HT40)	CH46	5230	14.0	14.0
11ac (HT80)	CH42	5210	16.0	16.0

Band IV (5725 - 5850 MHz) Power level setup in software				
Mode	Channel	Frequency (MHz)	Soft Set	
11a	CH149	5745	18.0	18.0
11a	CH157	5785	20.0	20.0
11a	CH165	5825	17.0	17.0
11n (HT20)	CH149	5745	18.0	18.0
11n (HT20)	CH157	5785	20.0	20.0
11n (HT20)	CH165	5825	17.0	17.0
11n (HT40)	CH151	5755	18.0	18.0
11n (HT40)	CH159	5795	20.0	20.0
11ac (HT80)	CH155	5775	18.0	18.0

Run Software



2.8 Channel List

20 MHz		40 MHz		80 MHz	
Channel Number	Frequency (MHz)	Channel Number	Frequency (MHz)	Channel Number	Frequency (MHz)
36	5180	38	5190	42	5210
40	5200	46	5230	155	5775
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/ac(HT20)

Band I (5150 - 5250 MHz)			Band IV (5725 - 5850 MHz)		
Channel Number	Channel	Frequency (MHz)	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/ac (HT40)

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

For 802.11ac(HT80)

Band I (5150 - 5250 MHz)			Band IV (5725 - 5850 MHz)		
Channel Number	Channel	Frequency (MHz)	Channel Number	Channel	Frequency (MHz)
42	Low	5210	155	Low	5775

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
	11ac(80 MHz)	MCS0		42	155
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
	11ac(80 MHz)	VHT-MCS0		42	155
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
	11ac(80 MHz)	MCS0		N/A	155
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
	11ac(80 MHz)	MCS0		42	155
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
	11ac(80 MHz)	MCS0		42	155
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
	11ac(80 MHz)	MCS0		42	155
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
	11ac(80 MHz)	MCS0		42	155
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	KDB Publication 662911 D01v02r01	Emissions Testing of Transmitters with Multiple Outputs in the Same Band (e.g., MIMO, Smart Antenna, etc)
4	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)	-10°C
	HT (High Temperature)	+40°C
Working Voltage of the EUT	NV (Normal Voltage)	120 V
	LV (Low Voltage)	110 V
	HV (High Voltage)	130 V

4.2 Test Equipment List

Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due
Spectrum Analyzer	ROHDE&SCHWARZ	FSV-30	103118	2018.06.12	2019.06.11
Switch Unit with OSP-B157	ROHDE&SCHWARZ	OSP120	101270	2018.06.12	2019.06.11
EMI Receiver	KEYSIGHT	N9038A	MY53220118	2017.09.07	2018.09.06
EMI Receiver	ROHDE&SCHWARZ	ESRP	101036	2018.06.22	2019.06.21
LISN	SCHWARZBECK	NSLK 8127	8127-687	2018.06.22	2019.06.21
Bluetooth Tester	ROHDE&SCHWARZ	CBT	101005	2018.06.12	2019.06.11
Power Splitter	KMW	DCPD-LDC	1305003215	--	--
Power Sensor	ROHDE&SCHWARZ	NRP-Z21	103971	2018.06.12	2019.06.11
Attenuator (20 dB)	KMW	ZA-S1-201	110617091	--	--
Attenuator (6 dB)	KMW	ZA-S1-61	1305003189	--	--
DC Power Supply	ROHDE&SCHWARZ	HMP2020	018141664	2018.06.22	2019.06.21
Temperature Chamber	ANGELANTIONI SCIENCE	NTH64-40A	1310	2018.06.22	2019.06.21
Test Antenna- Loop(9 kHz-30 MHz)	SCHWARZBECK	FMZB 1519	1519-037	2018.06.22	2019.06.21
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	2018.06.12	2019.06.11
Power Amplifier	OPHIR RF	5225F	1037	2018.02.16	2019.02.15

Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due
Power Amplifier	OPHIR RF	5273F	1016	2018.02.16	2019.02.15
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	2018.05.21	2019.05.20
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

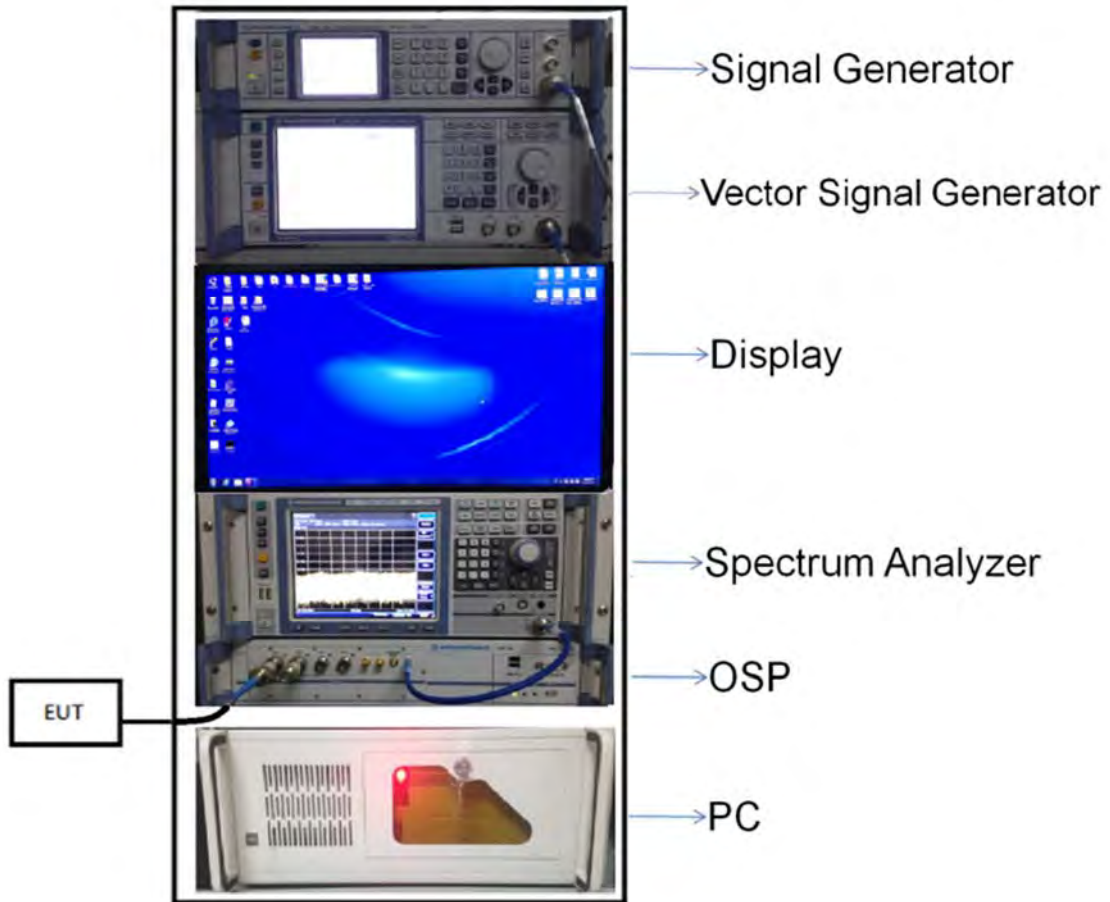
The following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2.

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	$\pm 4\%$
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	$\pm 1^\circ\text{C}$
Humidity	$\pm 4\%$

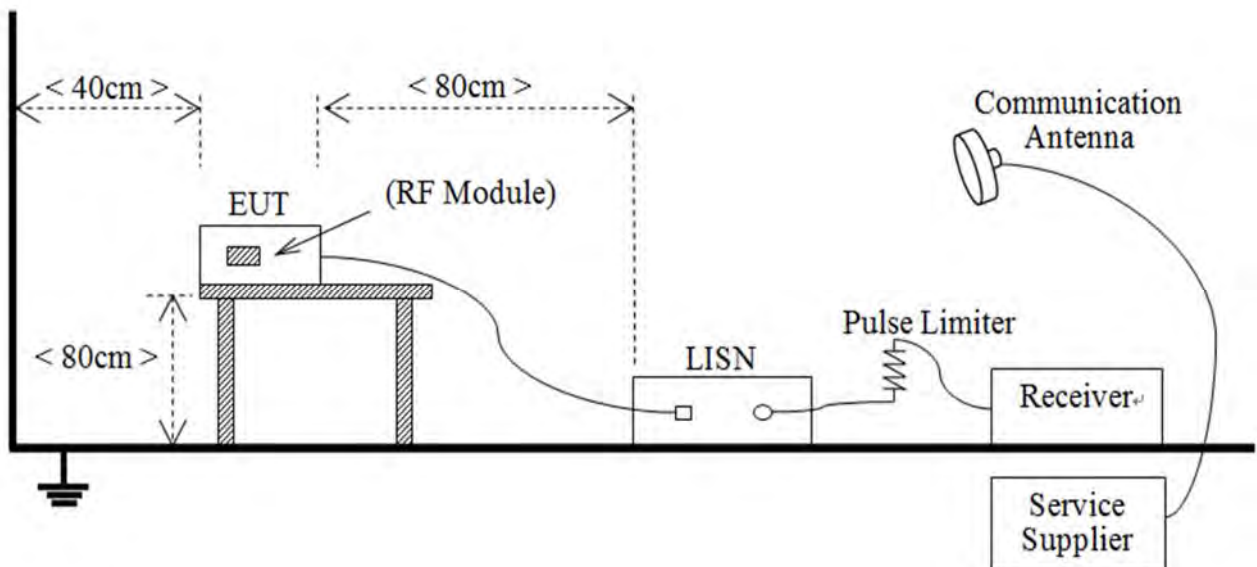
4.4 Description of Test Setup

4.4.1 For Antenna Port Test



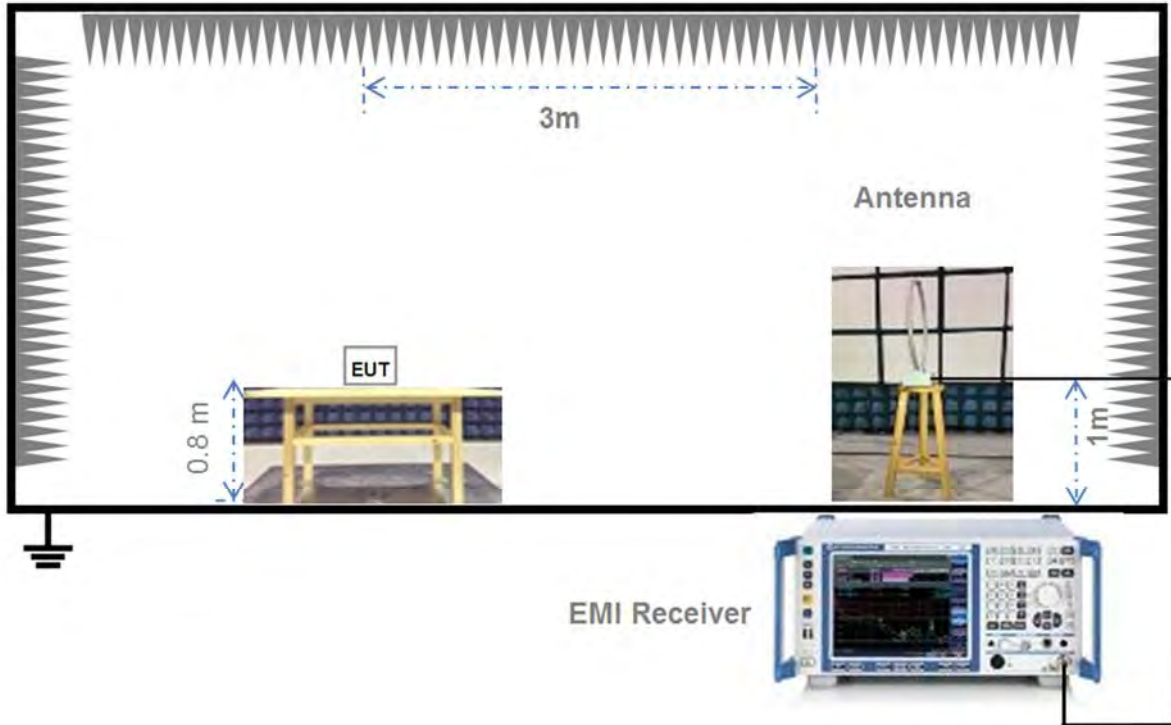
(Diagram 1)

4.4.2 For AC Power Supply Port Test



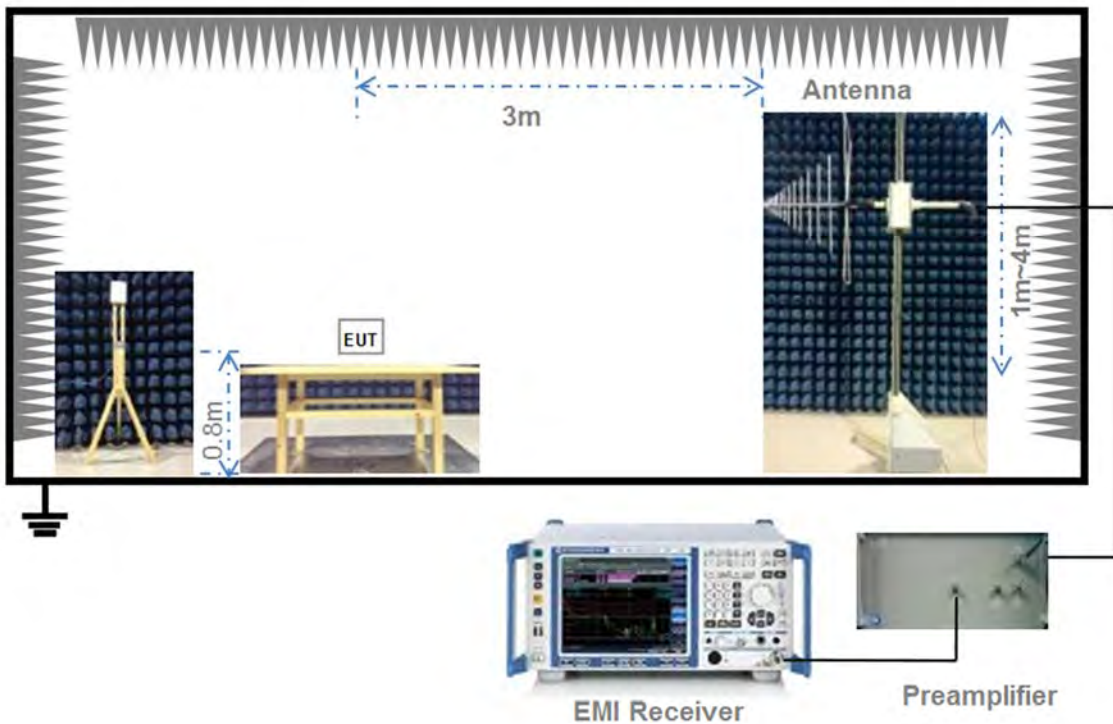
(Diagram 2)

4.4.3 For Radiated Test (Below 30 MHz)



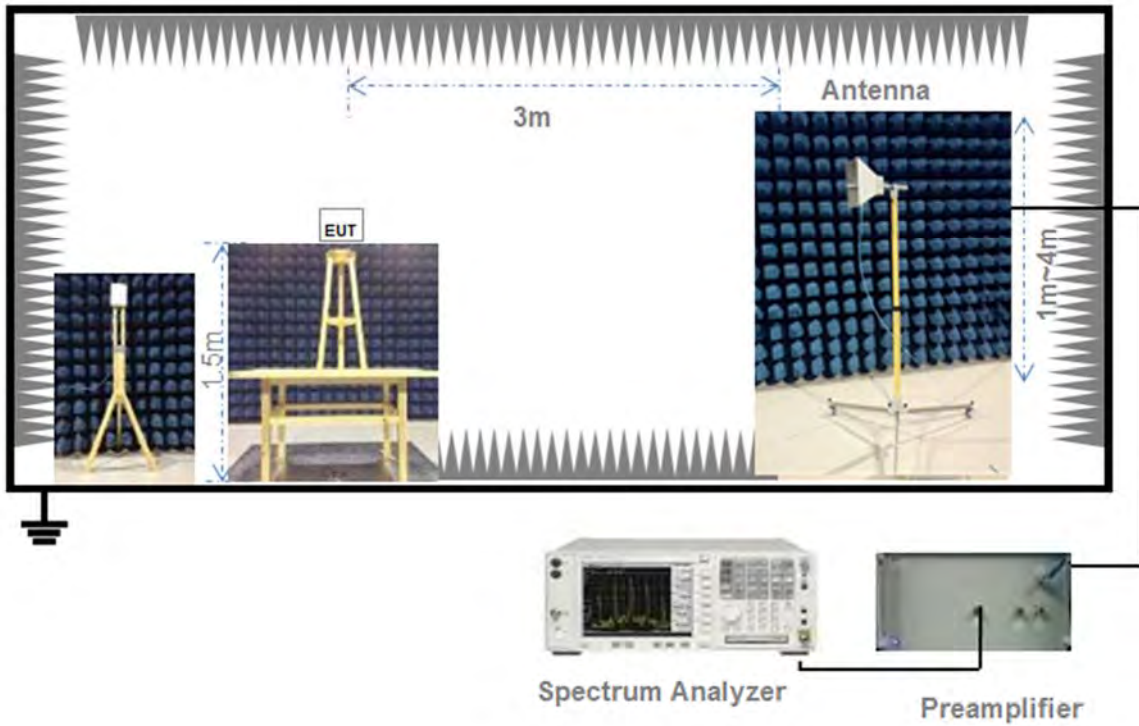
(Diagram 3)

4.4.4 For Radiated Test (30 MHz-1 GHz)



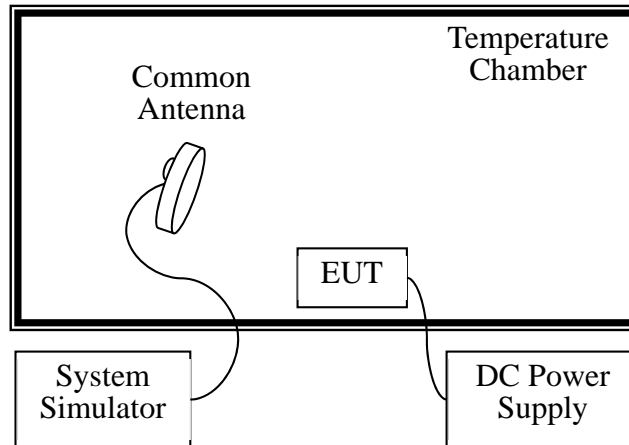
(Diagram 4)

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	<p>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.</p>

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 ($\mu\text{V}/\text{m}$)	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	<p>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.</p>

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 \leq 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 x 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 1: 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 1 (dBm)	Conducted Power 1 (mW)	Conducted Power 2 (dBm)	Conducted Power 2 (mW)	FCC Limit (mW)	Verdict
11a	CH36	5180	7.67	5.85	7.63	5.79	250	Pass
11a	CH44	5220	9.11	8.15	9.33	8.57	250	Pass
11a	CH48	5240	9.78	9.51	9.80	9.55	250	Pass
11n (HT20)	CH36	5180	8.15	6.53	8.38	6.89	250	Pass
11n (HT20)	CH44	5220	8.72	7.45	9.16	8.24	250	Pass
11n (HT20)	CH48	5240	9.71	9.35	9.96	9.91	250	Pass
11n (HT40)	CH38	5190	7.95	6.24	8.17	6.56	250	Pass
11n (HT40)	CH46	5230	9.73	9.40	9.55	9.02	250	Pass
11ac (HT20)	CH36	5180	7.86	6.11	7.90	6.17	250	Pass
11ac (HT20)	CH44	5220	8.76	7.52	9.42	8.75	250	Pass
11ac (HT20)	CH48	5240	9.38	8.67	9.88	9.73	250	Pass
11ac (HT40)	CH38	5190	7.73	5.93	8.01	6.32	250	Pass
11ac (HT40)	CH46	5230	9.74	9.42	9.71	9.35	250	Pass
11ac (HT80)	CH42	5210	7.55	5.69	7.37	5.46	250	Pass

Band IV (5725 - 5850 MHz)								
Mode	Channel	Frequency (MHz)	Conducted Power 1 (dBm)	Conducted Power 1 (mW)	Conducted Power 2 (dBm)	Conducted Power 2 (mW)	FCC Limit (W)	Verdict
11a	CH149	5745	11.45	13.96	11.96	15.70	1.00	Pass
11a	CH157	5785	13.33	21.53	13.20	20.89	1.00	Pass
11a	CH165	5825	11.48	14.06	12.55	17.99	1.00	Pass
11n (HT20)	CH149	5745	11.34	13.61	10.90	12.30	1.00	Pass
11n (HT20)	CH157	5785	12.90	19.50	13.32	21.48	1.00	Pass
11n (HT20)	CH165	5825	11.55	14.29	12.11	16.26	1.00	Pass
11n (HT40)	CH151	5755	10.86	12.19	10.55	11.35	1.00	Pass
11n (HT40)	CH159	5795	13.10	20.42	13.31	21.43	1.00	Pass
11ac (HT20)	CH149	5745	11.17	13.09	10.95	12.45	1.00	Pass
11ac (HT20)	CH157	5785	12.86	19.32	13.18	20.80	1.00	Pass
11ac (HT20)	CH165	5825	11.95	15.67	12.43	17.50	1.00	Pass
11ac (HT40)	CH151	5755	10.79	11.99	10.76	11.91	1.00	Pass
11ac (HT40)	CH159	5795	13.34	21.58	12.93	19.63	1.00	Pass
11ac (HT80)	CH155	5775	11.17	13.09	10.65	11.61	1.00	Pass

A.2 Emission Bandwidth & 99% Bandwidth

Note: Test plots please refer to the document "Annex No.: BL- SZ1840394-604 Data Part 1.pdf".

Test Data

Band I (5150 - 5250 MHz)						
Mode	Channel	Frequency	26 dB Bandwidth (MHz)		99% Bandwidth (MHz)	
		(MHz)	ANT1	ANT2	ANT1	ANT2
11a	CH36	5180	19.52	19.52	16.67	16.61
11a	CH44	5220	19.52	19.52	16.67	16.67
11a	CH48	5240	19.52	19.52	16.67	16.61
11n (HT20)	CH36	5180	20.00	20.00	17.71	17.71
11n (HT20)	CH44	5220	20.08	20.08	17.77	17.77
11n (HT20)	CH48	5240	20.04	20.04	17.71	17.71
11n (HT40)	CH38	5190	40.80	40.80	36.82	36.70
11n (HT40)	CH46	5230	40.10	40.00	36.70	36.70
11ac (HT20)	CH36	5180	20.00	20.00	17.83	17.66
11ac (HT20)	CH44	5220	19.96	19.96	17.71	17.66
11ac (HT20)	CH48	5240	20.04	20.04	17.71	17.71
11ac (HT40)	CH38	5190	40.60	40.60	37.05	36.58
11ac (HT40)	CH46	5230	40.12	40.00	36.82	36.82
11ac (HT80)	CH42	5210	80.00	79.80	75.25	75.72

Band IV (5725 - 5850 MHz)						
Mode	Channel	Frequency	26 dB Bandwidth (MHz)		99% Bandwidth (MHz)	
		(MHz)	ANT1	ANT2	ANT1	ANT2
11a	CH149	5745	20.88	20.64	16.67	16.67
11a	CH157	5785	20.72	20.88	16.67	16.61
11a	CH165	5825	21.04	21.08	16.67	16.61
11n (HT20)	CH149	5745	21.16	21.60	17.71	17.71
11n (HT20)	CH157	5785	21.40	21.40	17.71	17.71
11n (HT20)	CH165	5825	21.76	21.36	17.77	17.71
11n (HT40)	CH151	5755	43.50	43.90	36.70	36.59
11n (HT40)	CH159	5795	44.10	43.60	36.58	36.59
11ac (HT20)	CH149	5745	21.12	21.16	17.71	17.71
11ac (HT20)	CH157	5785	21.48	21.24	17.71	17.66
11ac (HT20)	CH165	5825	21.40	21.52	17.77	17.77
11ac (HT40)	CH151	5755	43.80	43.70	36.58	36.70
11ac (HT40)	CH159	5795	44.10	43.30	36.47	36.58
11ac (HT80)	CH155	5775	81.60	81.80	75.25	75.25

A.3 6 dB Bandwidth

Note: Test plots please refer to the document "Annex No.: BL- SZ1840394-604 Data Part 2.pdf".

Test Data

Band IV (5725 - 5850 MHz)						
Mode	Channel	Frequency (MHz)	6 dB Bandwidth (MHz)		Limit (kHz)	Verdict
			ANT1	ANT2		
11a	CH149	5745	16.62	16.57	500	Pass
11a	CH157	5785	16.62	16.42	500	Pass
11a	CH165	5825	16.42	16.47	500	Pass
11n (HT20)	CH149	5745	17.42	17.37	500	Pass
11n (HT20)	CH157	5785	17.12	17.72	500	Pass
11n (HT20)	CH165	5825	17.17	17.72	500	Pass
11n (HT40)	CH151	5755	36.22	35.52	500	Pass
11n (HT40)	CH159	5795	36.52	35.77	500	Pass
11ac (HT20)	CH149	5745	17.72	17.72	500	Pass
11ac (HT20)	CH157	5785	17.87	17.77	500	Pass
11ac (HT20)	CH165	5825	17.77	17.67	500	Pass
11ac (HT40)	CH151	5755	36.42	36.07	500	Pass
11ac (HT40)	CH159	5795	36.42	35.22	500	Pass
11ac (HT80)	CH155	5775	73.92	75.22	500	Pass

A.4 Power Spectral Density

Note: Test plots please refer to the document "Annex No.: BL-SZ1840394-604 Data Part 3.pdf".

Test Data

Band I (5150 - 5250 MHz)						
Mode	Channel	Frequency (MHz)	PSD at ant 1 (dBm/MHz)	PSD at ant 2 (dBm/MHz)	FCC Limit(dBm /MHz)	Verdict
11a	CH36	5180	4.03	4.92	11	Pass
11a	CH44	5220	5.30	5.10	11	Pass
11a	CH48	5240	5.64	5.04	11	Pass
11n (HT20)	CH36	5180	3.51	4.24	11	Pass
11n (HT20)	CH44	5220	5.30	5.23	11	Pass
11n (HT20)	CH48	5240	4.37	5.08	11	Pass
11n (HT40)	CH38	5190	2.13	0.97	11	Pass
11n (HT40)	CH46	5230	1.74	1.10	11	Pass
11ac (HT20)	CH36	5180	4.40	3.96	11	Pass
11ac (HT20)	CH44	5220	4.37	4.80	11	Pass
11ac (HT20)	CH48	5240	5.05	5.48	11	Pass
11ac (HT40)	CH38	5190	1.61	1.21	11	Pass
11ac (HT40)	CH46	5230	2.13	2.59	11	Pass
11ac (HT80)	CH42	5210	0.58	-1.11	11	Pass

Band IV (5725 - 5850 MHz)						
Mode	Channel	Frequency (MHz)	PSD at ant 1 (dBm/MHz)	PSD at ant 2 (dBm/MHz)	FCC/IC Limit(dBm/ 500 kHz)	Verdict
11a	CH149	5745	3.18	3.52	30	Pass
11a	CH157	5785	4.32	4.17	30	Pass
11a	CH165	5825	2.65	3.14	30	Pass
11n (HT20)	CH149	5745	3.03	3.07	30	Pass
11n (HT20)	CH157	5785	4.07	4.11	30	Pass
11n (HT20)	CH165	5825	2.48	2.51	30	Pass
11n (HT40)	CH151	5755	-6.23	-6.24	30	Pass
11n (HT40)	CH159	5795	-5.40	-4.77	30	Pass
11ac (HT20)	CH149	5745	3.61	3.18	30	Pass
11ac (HT20)	CH157	5785	4.34	4.02	30	Pass
11ac (HT20)	CH165	5825	2.95	2.75	30	Pass
11ac (HT40)	CH151	5755	-5.83	-6.39	30	Pass
11ac (HT40)	CH159	5795	-4.97	-4.03	30	Pass
11ac (HT80)	CH155	5775	-3.37	-3.37	30	Pass

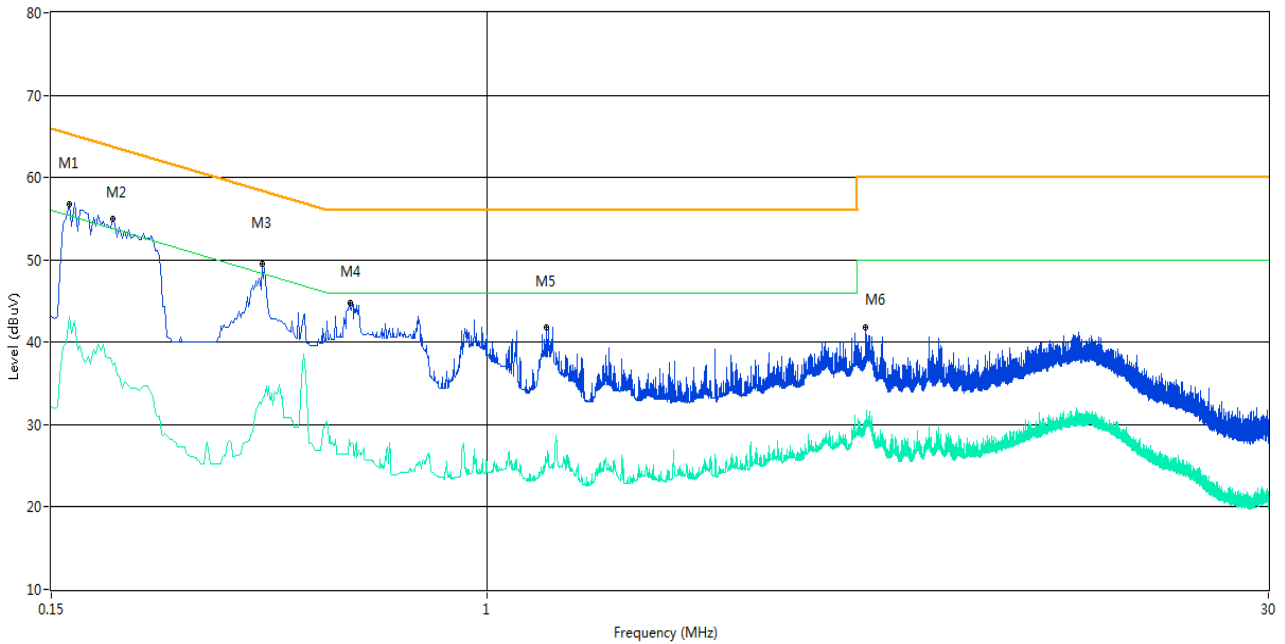
A.5 Conducted Emissions

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.

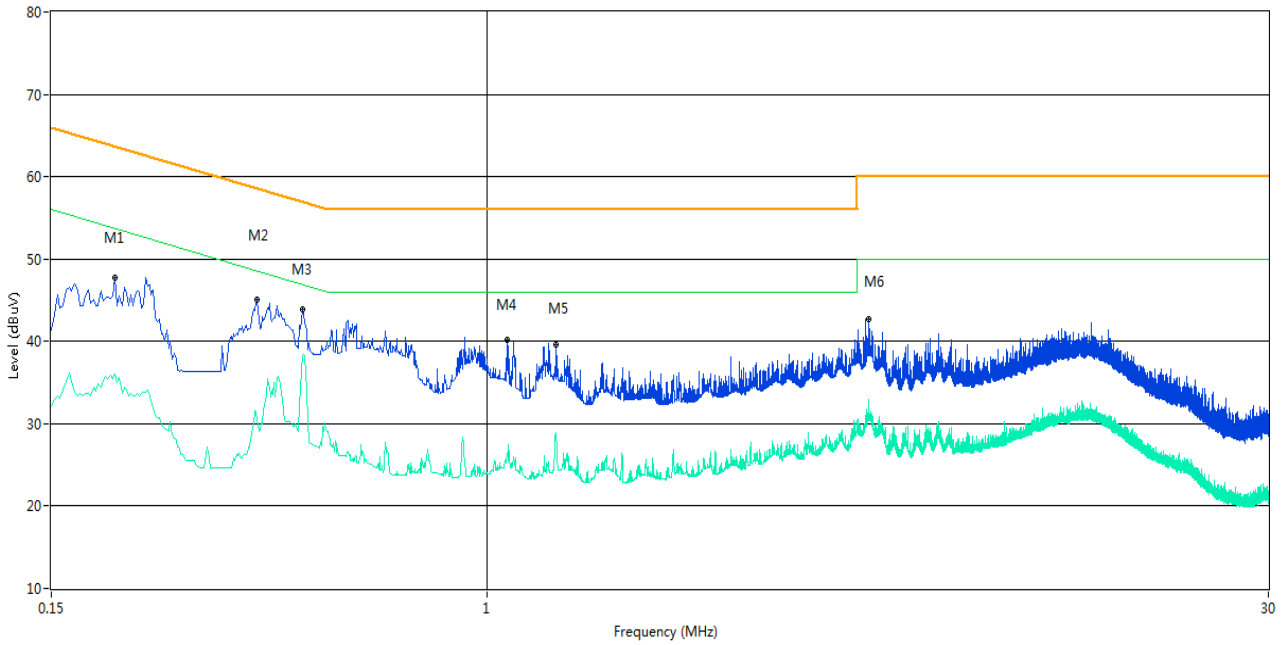
Test Data and Plots

PHASE L



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.162	56.8	10.04	65.4	8.60	Peak	L Line	Pass
1**	0.162	43.2	10.04	55.4	12.20	AV	L Line	Pass
2	0.196	55.0	10.04	63.8	8.80	Peak	L Line	Pass
2**	0.196	37.2	10.04	53.8	16.60	AV	L Line	Pass
3	0.376	49.5	10.04	58.4	8.90	Peak	L Line	Pass
3**	0.376	32.8	10.04	48.4	15.60	AV	L Line	Pass
4	0.552	44.7	10.05	56.0	11.30	Peak	L Line	Pass
4**	0.552	27.5	10.05	46.0	18.50	AV	L Line	Pass
5	1.294	41.9	10.07	56.0	14.10	Peak	L Line	Pass
5**	1.294	25.9	10.07	46.0	20.10	AV	L Line	Pass
6	5.192	41.8	10.18	60.0	18.20	Peak	L Line	Pass
6**	5.192	30.6	10.18	50.0	19.40	AV	L Line	Pass

PHASE N



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.198	47.7	10.04	63.7	16.00	Peak	N Line	Pass
1**	0.198	36.0	10.04	53.7	17.70	AV	N Line	Pass
2	0.368	45.0	10.04	58.5	13.50	Peak	N Line	Pass
2**	0.368	30.6	10.04	48.5	17.90	AV	N Line	Pass
3	0.448	43.8	10.04	56.9	13.10	Peak	N Line	Pass
3**	0.448	38.0	10.04	46.9	8.90	AV	N Line	Pass
4	1.092	40.2	10.06	56.0	15.80	Peak	N Line	Pass
4**	1.092	26.4	10.06	46.0	19.60	AV	N Line	Pass
5	1.350	39.6	10.07	56.0	16.40	Peak	N Line	Pass
5**	1.350	28.6	10.07	46.0	17.40	AV	N Line	Pass
6	5.266	42.7	10.18	60.0	17.30	Peak	N Line	Pass
6**	5.266	30.7	10.18	50.0	19.30	AV	N Line	Pass

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

Note¹: Test plots please refer to the document “Annex No.: BL-SZ1840394-604 Data Part 4.pdf”.

Note²: The margin of all individual chains in the report is greater than 3 db, so the total value meets the limit requirement.

ANTENNA 1

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
	802.11ac(HT20)	Low	Pass
		Middle	Pass
		High	Pass
	802.11ac(HT40)	Low	Pass
High		Pass	
802.11ac(HT80)	Low	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
	802.11ac(HT20)	Low	Pass
		Middle	Pass
		High	Pass
	802.11ac(HT40)	Low	Pass
		High	Pass
	802.11ac(HT80)	Low	Pass

ANTENNA 2

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
	802.11ac(HT20)	Low	Pass
		Middle	Pass
		High	Pass
	802.11ac(HT40)	Low	Pass
High		Pass	
802.11ac(HT80)	Low	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
	802.11ac(HT20)	Low	Pass
		Middle	Pass
		High	Pass
	802.11ac(HT40)	Low	Pass
		High	Pass
	802.11ac(HT80)	Low	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.

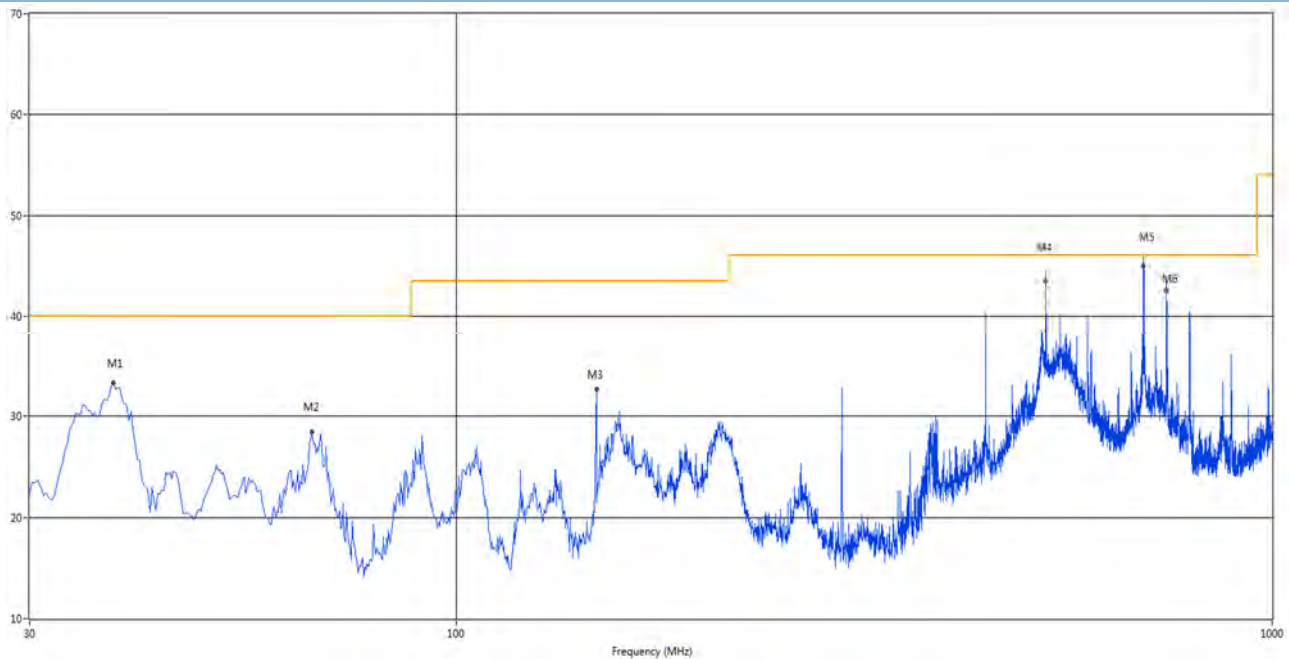
Note²: For the test data above 1 GHz, According the ANSI C63.4, where limits are specified for both average and peak (or quasi-peak) detector functions, if the peak (or quasi-peak) measured value complies with the average limit, it is unnecessary to perform an average measurement.

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.

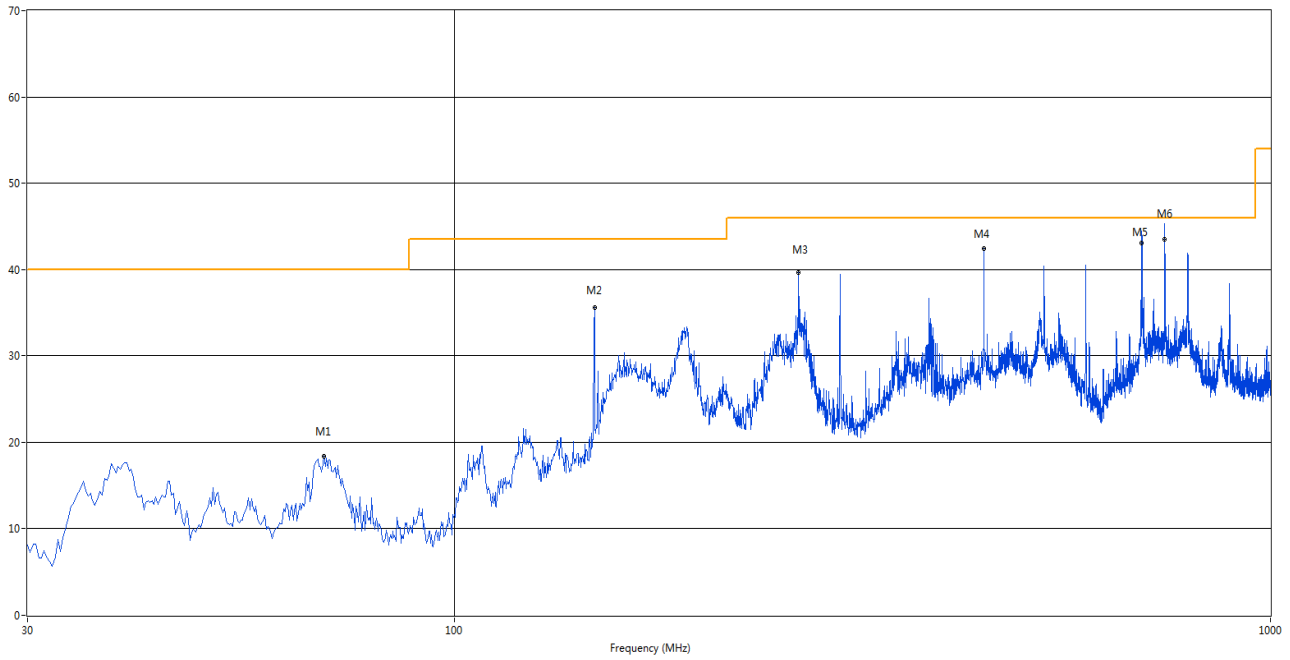
Note⁵: For Multiple transmitter output, the quantity $10 \log(NANT)$ dB is added to each spectrum value before comparing to the emission limit. When testing out-of-band and spurious emissions against relative emission limits, tests may be performed on each output individually without summing or adding $10 \log(NANT)$ if the measurements are made relative to the in-band emissions on the individual outputs.

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	38.002	33.35	-25.73	40.0	6.65	Peak	131.40	200	Vertical	Pass
2	66.618	28.49	-26.74	40.0	11.51	Peak	131.40	100	Vertical	Pass
3	148.583	32.67	-29.06	43.5	10.83	Peak	33.70	200	Vertical	Pass
4	528.095	44.60	-16.98	46.0	1.40	Peak	148.80	100	Vertical	N/A
4*	528.095	43.49	-16.98	46.0	2.51	QP	148.80	100	Vertical	Pass
5	695.905	46.05	-14.37	46.0	-0.05	Peak	240.20	100	Vertical	N/A
5*	695.905	44.93	-14.37	46.0	1.07	QP	240.20	100	Vertical	Pass
6	742.465	44.06	-13.53	46.0	1.94	Peak	187.90	100	Vertical	N/A
6*	742.465	42.59	-13.53	46.0	3.41	QP	187.90	100	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	69.285	18.31	-27.87	40.0	21.69	Peak	75.30	200	Horizontal	Pass
2	148.583	35.65	-29.06	43.5	7.85	Peak	123.20	200	Horizontal	Pass
3	264.255	39.65	-23.76	46.0	6.35	Peak	199.00	200	Horizontal	Pass
4	445.402	42.49	-19.10	46.0	3.51	Peak	163.20	100	Horizontal	Pass
5	695.905	44.51	-14.37	46.0	1.49	Peak	301.40	100	Horizontal	N/A
5*	695.905	43.06	-14.37	46.0	2.94	QP	301.40	100	Horizontal	Pass
6	742.465	45.36	-13.53	46.0	0.64	Peak	288.10	100	Horizontal	N/A
6*	742.465	43.58	-13.53	46.0	2.42	QP	288.10	100	Horizontal	Pass

Note 1: The spurious above 12.75GHz is noise only, do not show on the report.

1 GHz to 18 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**	1584.000	43.4	-11.58	54.0	10.60	AV	105.00	150	Horizontal	Pass
1	1584.000	51.81	-11.58	74.0	22.19	Peak	105.00	150	Horizontal	Pass
2**	2957.500	38.5	-0.60	--	-38.50	AV	291.00	150	Horizontal	N/A
2	2957.500	50.45	-0.60	68.2	17.75	Peak	291.00	150	Horizontal	Pass
3**	5176.000	86.5	-0.02	--	-86.50	AV	166.00	150	Horizontal	N/A
3	5176.000	94.16	-0.02	--	71.84	Peak	166.00	150	Horizontal	N/A
4**	6860.000	46.0	7.20	--	-46.00	AV	69.00	150	Horizontal	N/A
4	6860.000	57.33	7.20	68.2	10.87	Peak	69.00	150	Horizontal	Pass
5**	10146.000	43.6	28.92	--	-43.60	AV	132.00	150	Horizontal	N/A
5	10146.000	61.69	28.92	68.2	6.51	Peak	132.00	150	Horizontal	Pass
6**	11507.250	47.0	32.16	54.0	7.00	AV	226.00	150	Horizontal	Pass
6	11507.250	64.20	32.16	74.0	9.80	Peak	226.00	150	Horizontal	Pass

1 GHz to 18 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**	1584.000	41.4	-11.58	54.0	12.60	AV	176.00	150	Vertical	N/A
1	1584.000	49.37	-11.58	74.0	24.63	Peak	176.00	150	Vertical	Pass
2**	2962.500	38.6	-0.92	--	-38.60	AV	229.00	150	Vertical	N/A
2	2962.500	50.42	-0.92	68.2	17.78	Peak	229.00	150	Vertical	Pass
3**	5175.000	91.2	0.11	--	-91.20	AV	43.00	150	Vertical	N/A
3	5175.000	98.76	0.11	--	-55.76	Peak	43.00	150	Vertical	N/A
4**	6999.000	47.1	9.21	--	-47.10	AV	43.00	150	Vertical	N/A
4	6999.000	57.46	9.21	68.2	10.74	Peak	43.00	150	Vertical	Pass
5**	10429.250	44.6	29.67	--	-44.60	AV	38.00	150	Vertical	N/A
5	10429.250	61.74	29.67	68.2	6.46	Peak	38.00	150	Vertical	Pass
6**	11435.750	46.2	31.51	54.0	7.80	AV	38.00	150	Vertical	N/A
6	11435.750	63.55	31.51	74.0	10.45	Peak	38.00	150	Vertical	Pass

1 GHz to 18 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**	1584.000	42.7	-11.58	54.0	11.30	AV	334.00	150	Horizontal	N/A
1	1584.000	50.82	-11.58	74.0	23.18	Peak	334.00	150	Horizontal	Pass
2**	2959.500	38.5	-0.67	--	-38.50	AV	228.00	150	Horizontal	N/A
2	2959.500	50.49	-0.67	68.2	17.71	Peak	228.00	150	Horizontal	Pass
3**	5226.000	84.8	-0.02	--	-84.80	AV	176.00	150	Horizontal	N/A
3	5226.000	92.82	-0.02	--	83.18	Peak	176.00	150	Horizontal	N/A
4**	6796.000	45.4	6.79	--	-45.40	AV	308.00	150	Horizontal	N/A
4	6796.000	57.82	6.79	68.2	10.38	Peak	308.00	150	Horizontal	Pass
5**	10192.750	43.8	29.13	--	-43.80	AV	69.00	150	Horizontal	N/A
5	10192.750	60.90	29.13	68.2	7.30	Peak	69.00	150	Horizontal	Pass
6**	11399.999	46.1	31.41	54.0	7.90	AV	3.00	150	Horizontal	N/A
6	11399.999	64.09	31.41	74.0	9.91	Peak	3.00	150	Horizontal	Pass

1 GHz to 18 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**	1584.000	41.3	-11.58	54.0	12.70	AV	158.00	150	Vertical	N/A
1	1584.000	49.79	-11.58	74.0	24.21	Peak	158.00	150	Vertical	Pass
2**	2976.500	38.9	-0.99	--	-38.90	AV	17.00	150	Vertical	N/A
2	2976.500	49.99	-0.99	68.2	18.21	Peak	17.00	150	Vertical	Pass
3**	5226.000	89.5	-0.02	--	-89.50	AV	113.00	150	Vertical	N/A
3	5226.000	97.20	-0.02	--	15.80	Peak	113.00	150	Vertical	N/A
4**	6687.000	45.5	6.31	--	-45.50	AV	272.00	150	Vertical	N/A
4	6687.000	57.42	6.31	68.2	10.78	Peak	272.00	150	Vertical	Pass
5**	9131.250	40.6	25.98	54.0	13.40	AV	29.00	150	Vertical	N/A
5	9131.250	58.62	25.98	74.0	15.38	Peak	29.00	150	Vertical	Pass
6**	11468.750	47.2	31.91	54.0	6.80	AV	235.00	150	Vertical	N/A
6	11468.750	64.66	31.91	74.0	9.34	Peak	235.00	150	Vertical	Pass

1 GHz to 18 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**	1584.000	42.2	-11.58	54.0	11.80	AV	359.00	150	Horizontal	N/A
1	1584.000	51.56	-11.58	74.0	22.44	Peak	359.00	150	Horizontal	Pass
2**	2953.500	38.6	-0.56	--	-38.60	AV	247.00	150	Horizontal	N/A
2	2953.500	50.11	-0.56	68.2	18.09	Peak	247.00	150	Horizontal	Pass
3**	5243.000	85.0	-0.23	--	-85.00	AV	166.00	150	Horizontal	N/A
3	5243.000	93.98	-0.23	--	72.02	Peak	166.00	150	Horizontal	N/A
4**	6982.000	46.4	8.26	--	-46.40	AV	149.00	150	Horizontal	N/A
4	6982.000	57.69	8.26	68.2	10.51	Peak	149.00	150	Horizontal	Pass
5**	10396.250	44.6	29.59	--	-44.60	AV	38.00	150	Horizontal	N/A
5	10396.250	61.61	29.59	68.2	6.59	Peak	38.00	150	Horizontal	Pass
6**	11510.000	46.8	32.14	54.0	7.20	AV	206.00	150	Horizontal	N/A
6	11510.000	63.87	32.14	74.0	10.13	Peak	206.00	150	Horizontal	Pass

1 GHz to 18 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**	1583.500	35.2	-11.62	54.0	18.80	AV	360.00	150	Vertical	N/A
1	1583.500	48.45	-11.62	74.0	25.55	Peak	360.00	150	Vertical	Pass
2**	2999.500	38.5	-0.36	--	-38.50	AV	263.00	150	Vertical	N/A
2	2999.500	50.47	-0.36	68.2	17.73	Peak	263.00	150	Vertical	Pass
3**	5245.000	89.3	-0.42	--	-89.30	AV	123.00	150	Vertical	N/A
3	5245.000	97.67	-0.42	--	25.33	Peak	123.00	150	Vertical	N/A
4**	7000.000	47.1	9.26	--	-47.10	AV	220.00	150	Vertical	N/A
4	7000.000	58.63	9.26	68.2	9.57	Peak	220.00	150	Vertical	Pass
5**	10443.000	45.2	29.62	--	-45.20	AV	312.00	150	Vertical	N/A
5	10443.000	62.69	29.62	68.2	5.51	Peak	312.00	150	Vertical	Pass
6**	12219.500	46.7	31.48	54.0	7.30	AV	116.00	150	Vertical	N/A
6	12219.500	63.60	31.48	74.0	10.40	Peak	116.00	150	Vertical	Pass

1 GHz to 18 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**	1584.000	40.9	-11.58	54.0	13.10	AV	9.00	150	Vertical	N/A
1	1584.000	48.36	-11.58	74.0	25.64	Peak	9.00	150	Vertical	Pass
2**	2982.500	38.3	-0.66	--	-38.30	AV	113.00	150	Vertical	N/A
2	2982.500	50.10	-0.66	68.2	18.10	Peak	113.00	150	Vertical	Pass
3**	5175.000	90.4	0.11	--	-90.40	AV	124.00	150	Vertical	N/A
3	5175.000	98.22	0.11	--	25.78	Peak	124.00	150	Vertical	N/A
4**	6993.000	46.6	8.68	--	-46.60	AV	352.00	150	Vertical	N/A
4	6993.000	57.69	8.68	68.2	10.51	Peak	352.00	150	Vertical	Pass
5**	10286.250	44.5	29.35	--	-44.50	AV	93.00	150	Vertical	N/A
5	10286.250	61.49	29.35	68.2	6.71	Peak	93.00	150	Vertical	Pass
6**	11650.250	46.9	31.23	54.0	7.10	AV	0.00	150	Vertical	N/A
6	11650.250	64.47	31.23	74.0	9.53	Peak	0.00	150	Vertical	Pass

1 GHz to 18 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**	1584.000	41.8	-11.58	54.0	12.20	AV	356.00	150	Horizontal	N/A
1	1584.000	49.98	-11.58	74.0	24.02	Peak	356.00	150	Horizontal	Pass
2**	2965.500	38.7	-1.10	--	-38.70	AV	0.00	150	Horizontal	N/A
2	2965.500	50.02	-1.10	68.2	18.18	Peak	0.00	150	Horizontal	Pass
3**	5185.000	85.5	0.03	--	-85.50	AV	166.00	150	Horizontal	N/A
3	5185.000	92.94	0.03	--	73.06	Peak	166.00	150	Horizontal	N/A
4**	6989.000	47.1	8.88	--	-47.10	AV	25.00	150	Horizontal	N/A
4	6989.000	57.95	8.88	68.2	10.25	Peak	25.00	150	Horizontal	Pass
5**	10269.750	44.2	29.24	--	-44.20	AV	188.00	150	Horizontal	N/A
5	10269.750	62.72	29.24	68.2	5.48	Peak	188.00	150	Horizontal	Pass
6**	11499.000	47.2	32.22	54.0	6.80	AV	354.00	150	Horizontal	N/A
6	11499.000	63.91	32.22	74.0	10.09	Peak	354.00	150	Horizontal	Pass

1 GHz to 18 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**	1584.000	42.2	-11.58	54.0	11.80	AV	360.00	150	Horizontal	N/A
1	1584.000	50.04	-11.58	74.0	23.96	Peak	360.00	150	Horizontal	Pass
2**	2947.500	38.6	-0.68	--	-38.60	AV	255.00	150	Horizontal	N/A
2	2947.500	50.36	-0.68	68.2	17.84	Peak	255.00	150	Horizontal	Pass
3**	5224.000	84.8	0.14	--	-84.80	AV	194.00	150	Horizontal	N/A
3	5224.000	92.70	0.14	--	101.30	Peak	194.00	150	Horizontal	N/A
4**	6692.000	45.5	6.44	--	-45.50	AV	71.00	150	Horizontal	N/A
4	6692.000	57.36	6.44	68.2	10.84	Peak	71.00	150	Horizontal	Pass
5**	10231.250	44.0	29.10	--	-44.00	AV	33.00	150	Horizontal	N/A
5	10231.250	61.42	29.10	68.2	6.78	Peak	33.00	150	Horizontal	Pass
6**	11578.750	46.6	31.82	54.0	7.40	AV	52.00	150	Horizontal	N/A
6	11578.750	64.69	31.82	74.0	9.31	Peak	52.00	150	Horizontal	Pass

1 GHz to 18 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**	1584.000	41.6	-11.58	54.0	12.40	AV	176.00	150	Vertical	N/A
1	1584.000	49.29	-11.58	74.0	24.71	Peak	176.00	150	Vertical	Pass
2**	2959.500	38.7	-0.67	--	-38.70	AV	360.00	150	Vertical	N/A
2	2959.500	51.06	-0.67	68.2	17.14	Peak	360.00	150	Vertical	Pass
3**	5228.000	89.5	-0.12	--	-89.50	AV	113.00	150	Vertical	N/A
3	5228.000	96.76	-0.12	--	16.24	Peak	113.00	150	Vertical	N/A
4**	6969.000	46.5	7.62	--	-46.50	AV	316.00	150	Vertical	N/A
4	6969.000	58.60	7.62	68.2	9.60	Peak	316.00	150	Vertical	Pass
5**	10338.500	44.2	29.46	--	-44.20	AV	360.00	150	Vertical	N/A
5	10338.500	61.52	29.46	68.2	6.68	Peak	360.00	150	Vertical	Pass
6**	11479.750	47.2	32.14	54.0	6.80	AV	141.00	150	Vertical	N/A
6	11479.750	64.14	32.14	74.0	9.86	Peak	141.00	150	Vertical	Pass

1 GHz to 18 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**	1584.000	41.8	-11.58	54.0	12.20	AV	1.00	150	Vertical	N/A
1	1584.000	49.95	-11.58	74.0	24.05	Peak	1.00	150	Vertical	Pass
2**	2962.000	38.6	-0.89	--	-38.60	AV	356.00	150	Vertical	N/A
2	2962.000	50.42	-0.89	68.2	17.78	Peak	356.00	150	Vertical	Pass
3**	5242.000	88.1	-0.16	--	-88.10	AV	123.00	150	Vertical	N/A
3	5242.000	96.87	-0.16	--	26.13	Peak	123.00	150	Vertical	N/A
4**	6941.000	46.7	8.16	--	-46.70	AV	0.00	150	Vertical	N/A
4	6941.000	57.94	8.16	68.2	10.26	Peak	0.00	150	Vertical	Pass
5**	10093.750	43.7	28.85	--	-43.70	AV	13.00	150	Vertical	N/A
5	10093.750	61.24	28.85	68.2	6.96	Peak	13.00	150	Vertical	Pass
6**	12200.250	46.1	31.45	54.0	7.90	AV	182.00	150	Vertical	N/A
6	12200.250	63.90	31.45	74.0	10.10	Peak	182.00	150	Vertical	Pass

1 GHz to 18 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**	1485.000	40.5	-11.17	54.0	13.50	AV	351.00	150	Horizontal	N/A
1	1485.000	49.81	-11.17	74.0	24.19	Peak	351.00	150	Horizontal	Pass
2**	2996.000	38.2	-0.46	--	-38.20	AV	185.00	150	Horizontal	N/A
2	2996.000	50.38	-0.46	68.2	17.82	Peak	185.00	150	Horizontal	Pass
3**	5234.000	84.4	-0.05	--	-84.40	AV	166.00	150	Horizontal	N/A
3	5234.000	92.18	-0.05	--	73.82	Peak	166.00	150	Horizontal	N/A
4**	6926.000	46.2	8.00	--	-46.20	AV	316.00	150	Horizontal	N/A
4	6926.000	57.58	8.00	68.2	10.62	Peak	316.00	150	Horizontal	Pass
5**	10443.000	44.7	29.62	--	-44.70	AV	75.00	150	Horizontal	N/A
5	10443.000	61.26	29.62	68.2	6.94	Peak	75.00	150	Horizontal	Pass
6**	11427.500	45.9	31.43	54.0	8.10	AV	57.00	150	Horizontal	N/A
6	11427.500	63.68	31.43	74.0	10.32	Peak	57.00	150	Horizontal	Pass

1 GHz to 18 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**	1584.000	41.1	-11.58	54.0	12.90	AV	105.00	150	Horizontal	N/A
1	1584.000	49.87	-11.58	74.0	24.13	Peak	105.00	150	Horizontal	Pass
2**	2954.000	38.1	-0.50	--	-38.10	AV	52.00	150	Horizontal	N/A
2	2954.000	50.12	-0.50	68.2	18.08	Peak	52.00	150	Horizontal	Pass
3**	5192.000	81.8	0.33	--	-81.80	AV	150.00	150	Horizontal	N/A
3	5192.000	90.22	0.33	--	59.78	Peak	150.00	150	Horizontal	N/A
4**	6995.000	47.2	9.13	--	-47.20	AV	79.00	150	Horizontal	N/A
4	6995.000	58.06	9.13	68.2	10.14	Peak	79.00	150	Horizontal	Pass
5**	10137.750	43.7	29.02	--	-43.70	AV	89.00	150	Horizontal	N/A
5	10137.750	61.61	29.02	68.2	6.59	Peak	89.00	150	Horizontal	Pass
6**	11482.500	47.3	32.16	54.0	6.70	AV	229.00	150	Horizontal	N/A
6	11482.500	63.53	32.16	74.0	10.47	Peak	229.00	150	Horizontal	Pass

1 GHz to 18 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**	1584.000	40.8	-11.58	54.0	13.20	AV	159.00	150	Vertical	N/A
1	1584.000	49.71	-11.58	74.0	24.29	Peak	159.00	150	Vertical	Pass
2**	2962.500	38.8	-0.92	--	-38.80	AV	195.00	150	Vertical	N/A
2	2962.500	50.40	-0.92	68.2	17.80	Peak	195.00	150	Vertical	Pass
3**	5193.000	87.1	0.16	--	-87.10	AV	25.00	150	Vertical	N/A
3	5193.000	94.82	0.16	--	-69.82	Peak	25.00	150	Vertical	N/A
4**	6936.000	46.3	8.09	--	-46.30	AV	175.00	150	Vertical	N/A
4	6936.000	57.42	8.09	68.2	10.78	Peak	175.00	150	Vertical	Pass
5**	10311.000	44.2	29.38	--	-44.20	AV	178.00	150	Vertical	N/A
5	10311.000	61.87	29.38	68.2	6.33	Peak	178.00	150	Vertical	Pass
6**	11565.000	47.3	31.94	54.0	6.70	AV	290.00	150	Vertical	N/A
6	11565.000	64.04	31.94	74.0	9.96	Peak	290.00	150	Vertical	Pass

1 GHz to 18 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**	1584.500	43.6	-11.54	54.0	10.40	AV	157.00	150	Vertical	N/A
1	1584.500	49.98	-11.54	74.0	24.02	Peak	157.00	150	Vertical	Pass
2**	2982.500	38.1	-0.66	--	-38.10	AV	219.00	150	Vertical	N/A
2	2982.500	50.55	-0.66	68.2	17.65	Peak	219.00	150	Vertical	Pass
3**	5233.000	87.1	-0.02	--	-87.10	AV	123.00	150	Vertical	N/A
3	5233.000	94.65	-0.02	--	28.35	Peak	123.00	150	Vertical	N/A
4**	6969.000	46.0	7.62	--	-46.00	AV	1.00	150	Vertical	N/A
4	6969.000	58.22	7.62	68.2	9.98	Peak	1.00	150	Vertical	Pass
5**	9827.000	42.9	28.37	--	-42.90	AV	183.00	150	Vertical	N/A
5	9827.000	60.38	28.37	68.2	7.82	Peak	183.00	150	Vertical	Pass
6**	11534.750	47.2	31.93	54.0	6.80	AV	42.00	150	Vertical	N/A
6	11534.750	64.41	31.93	74.0	9.59	Peak	42.00	150	Vertical	Pass

1 GHz to 18 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**	1584.000	43.2	-11.58	54.0	10.80	AV	344.00	150	Horizontal	N/A
1	1584.000	51.36	-11.58	74.0	22.64	Peak	344.00	150	Horizontal	Pass
2**	2914.000	38.5	-1.71	--	-38.50	AV	238.00	150	Horizontal	N/A
2	2914.000	50.57	-1.71	68.2	17.63	Peak	238.00	150	Horizontal	Pass
3**	5233.000	83.1	-0.02	--	-83.10	AV	175.00	150	Horizontal	N/A
3	5233.000	90.88	-0.02	--	84.12	Peak	175.00	150	Horizontal	N/A
4**	6976.000	46.2	7.80	--	-46.20	AV	1.00	150	Horizontal	N/A
4	6976.000	57.90	7.80	68.2	10.30	Peak	1.00	150	Horizontal	Pass
5**	9827.000	42.9	28.37	--	-42.90	AV	158.00	150	Horizontal	N/A
5	9827.000	61.13	28.37	68.2	7.07	Peak	158.00	150	Horizontal	Pass
6**	11512.750	47.0	32.12	54.0	7.00	AV	345.00	150	Horizontal	N/A
6	11512.750	64.68	32.12	74.0	9.32	Peak	345.00	150	Horizontal	Pass

1 GHz to 18 GHz, ANT H Band I 11ac20 Low channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1584.000	41.7	-11.58	54.0	12.30	AV	96.00	150	Horizontal	N/A
1	1584.000	50.60	-11.58	74.0	23.40	Peak	96.00	150	Horizontal	Pass
2**	2948.000	38.7	-0.68	--	-38.70	AV	0.00	150	Horizontal	N/A
2	2948.000	50.20	-0.68	68.2	18.00	Peak	0.00	150	Horizontal	Pass
3**	5187.000	86.3	0.08	--	-86.30	AV	185.00	150	Horizontal	N/A
3	5187.000	93.83	0.08	--	91.17	Peak	185.00	150	Horizontal	N/A
4**	6997.000	47.2	9.18	--	-47.20	AV	282.00	150	Horizontal	N/A
4	6997.000	58.23	9.18	68.2	9.97	Peak	282.00	150	Horizontal	Pass
5**	10319.250	44.3	29.38	--	-44.30	AV	135.00	150	Horizontal	N/A
5	10319.250	60.99	29.38	68.2	7.21	Peak	135.00	150	Horizontal	Pass
6**	11496.250	47.2	32.23	54.0	6.80	AV	69.00	150	Horizontal	N/A
6	11496.250	64.43	32.23	74.0	9.57	Peak	69.00	150	Horizontal	Pass

1 GHz to 18 GHz, ANT V Band I 11ac20 Low channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1584.000	40.6	-11.58	54.0	13.40	AV	35.00	150	Vertical	N/A
1	1584.000	48.61	-11.58	74.0	25.39	Peak	35.00	150	Vertical	Pass
2**	2955.500	38.7	-0.65	--	-38.70	AV	176.00	150	Vertical	N/A
2	2955.500	50.09	-0.65	68.2	18.11	Peak	176.00	150	Vertical	Pass
3**	5175.000	89.6	0.11	--	-89.60	AV	113.00	150	Vertical	N/A
3	5175.000	97.50	0.11	--	15.50	Peak	113.00	150	Vertical	N/A
4**	6995.000	47.5	9.13	--	-47.50	AV	227.00	150	Vertical	N/A
4	6995.000	58.29	9.13	68.2	9.91	Peak	227.00	150	Vertical	Pass
5**	10107.500	43.8	29.02	--	-43.80	AV	149.00	150	Vertical	N/A
5	10107.500	61.55	29.02	68.2	6.65	Peak	149.00	150	Vertical	Pass
6**	11521.000	46.9	32.06	54.0	7.10	AV	112.00	150	Vertical	N/A
6	11521.000	63.77	32.06	74.0	10.23	Peak	112.00	150	Vertical	Pass

1 GHz to 18 GHz, ANT V Band I 11ac20 Middle channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1584.000	40.6	-11.58	54.0	13.40	AV	166.00	150	Vertical	N/A
1	1584.000	48.56	-11.58	74.0	25.44	Peak	166.00	150	Vertical	Pass
2**	2960.500	38.9	-0.77	--	-38.90	AV	95.00	150	Vertical	N/A
2	2960.500	50.80	-0.77	68.2	17.40	Peak	95.00	150	Vertical	Pass
3**	5226.000	89.8	-0.02	--	-89.80	AV	123.00	150	Vertical	N/A
3	5226.000	97.43	-0.02	--	25.57	Peak	123.00	150	Vertical	N/A
4**	6935.000	46.0	7.98	--	-46.00	AV	150.00	150	Vertical	N/A
4	6935.000	57.53	7.98	68.2	10.67	Peak	150.00	150	Vertical	Pass
5**	10121.250	43.7	29.22	--	-43.70	AV	276.00	150	Vertical	N/A
5	10121.250	61.71	29.22	68.2	6.49	Peak	276.00	150	Vertical	Pass
6**	11488.000	46.9	32.19	54.0	7.10	AV	230.00	150	Vertical	N/A
6	11488.000	64.57	32.19	74.0	9.43	Peak	230.00	150	Vertical	Pass

1 GHz to 18 GHz, ANT H Band I 11ac20 Middle channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1584.000	42.4	-11.58	54.0	11.60	AV	123.00	150	Horizontal	N/A
1	1584.000	49.80	-11.58	74.0	24.20	Peak	123.00	150	Horizontal	Pass
2**	2986.500	38.4	-0.74	--	-38.40	AV	132.00	150	Horizontal	N/A
2	2986.500	50.67	-0.74	68.2	17.53	Peak	132.00	150	Horizontal	Pass
3**	5225.000	85.1	0.06	--	-85.10	AV	175.00	150	Horizontal	N/A
3	5225.000	92.93	0.06	--	82.07	Peak	175.00	150	Horizontal	N/A
4**	6970.000	46.2	7.75	--	-46.20	AV	350.00	150	Horizontal	N/A
4	6970.000	58.38	7.75	68.2	9.82	Peak	350.00	150	Horizontal	Pass
5**	10352.250	44.9	29.51	--	-44.90	AV	179.00	150	Horizontal	N/A
5	10352.250	61.95	29.51	68.2	6.25	Peak	179.00	150	Horizontal	Pass
6**	11499.000	47.4	32.22	54.0	6.60	AV	75.00	150	Horizontal	N/A
6	11499.000	64.38	32.22	74.0	9.62	Peak	75.00	150	Horizontal	Pass

1 GHz to 18 GHz, ANT H Band I 11ac20 High channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1584.000	42.8	-11.58	54.0	11.20	AV	359.00	150	Horizontal	N/A
1	1584.000	51.33	-11.58	74.0	22.67	Peak	359.00	150	Horizontal	Pass
2**	2959.500	39.1	-0.67	--	-39.10	AV	227.00	150	Horizontal	N/A
2	2959.500	50.83	-0.67	68.2	17.37	Peak	227.00	150	Horizontal	Pass
3**	5247.000	85.4	-0.26	--	-85.40	AV	185.00	150	Horizontal	N/A
3	5247.000	92.82	-0.26	--	92.18	Peak	185.00	150	Horizontal	N/A
4**	6960.000	46.0	7.75	--	-46.00	AV	150.00	150	Horizontal	N/A
4	6960.000	58.19	7.75	68.2	10.01	Peak	150.00	150	Horizontal	Pass
5**	10506.250	44.3	29.40	--	-44.30	AV	165.00	150	Horizontal	N/A
5	10506.250	63.53	29.40	68.2	4.67	Peak	165.00	150	Horizontal	Pass
6**	11515.500	47.0	32.10	54.0	7.00	AV	25.00	150	Horizontal	N/A
6	11515.500	64.05	32.10	74.0	9.95	Peak	25.00	150	Horizontal	Pass

1 GHz to 18 GHz, ANT V Band I 11ac20 High channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1584.000	41.3	-11.58	54.0	12.70	AV	158.00	150	Vertical	N/A
1	1584.000	49.85	-11.58	74.0	24.15	Peak	158.00	150	Vertical	Pass
2**	2998.000	38.5	-0.36	--	-38.50	AV	0.00	150	Vertical	N/A
2	2998.000	50.41	-0.36	68.2	17.79	Peak	0.00	150	Vertical	Pass
3**	5246.000	89.4	-0.33	--	-89.40	AV	113.00	150	Vertical	N/A
3	5246.000	96.95	-0.33	--	16.05	Peak	113.00	150	Vertical	N/A
4**	6987.000	46.4	8.56	--	-46.40	AV	0.00	150	Vertical	N/A
4	6987.000	58.06	8.56	68.2	10.14	Peak	0.00	150	Vertical	Pass
5**	10487.000	44.4	29.46	--	-44.40	AV	299.00	150	Vertical	N/A
5	10487.000	61.57	29.46	68.2	6.63	Peak	299.00	150	Vertical	Pass
6**	11499.000	47.5	32.22	54.0	6.50	AV	216.00	150	Vertical	N/A
6	11499.000	64.02	32.22	74.0	9.98	Peak	216.00	150	Vertical	Pass

1 GHz to 18 GHz, ANT V Band I 11ac40 Low channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1583.500	35.5	-11.62	54.0	18.50	AV	8.00	150	Vertical	N/A
1	1583.500	50.32	-11.62	74.0	23.68	Peak	8.00	150	Vertical	Pass
2**	2963.500	39.3	-0.93	--	-39.30	AV	33.00	150	Vertical	N/A
2	2963.500	51.48	-0.93	68.2	16.72	Peak	33.00	150	Vertical	Pass
3**	5188.000	87.0	0.11	--	-87.00	AV	123.00	150	Vertical	N/A
3	5188.000	94.98	0.11	--	28.02	Peak	123.00	150	Vertical	N/A
4**	6926.000	46.2	8.00	--	-46.20	AV	158.00	150	Vertical	N/A
4	6926.000	57.31	8.00	68.2	10.89	Peak	158.00	150	Vertical	Pass
5**	9675.750	42.7	28.15	--	-42.70	AV	360.00	150	Vertical	N/A
5	9675.750	60.45	28.15	68.2	7.75	Peak	360.00	150	Vertical	Pass
6**	11444.000	46.6	31.59	54.0	7.40	AV	193.00	150	Vertical	N/A
6	11444.000	64.82	31.59	74.0	9.18	Peak	193.00	150	Vertical	Pass

1 GHz to 18 GHz, ANT H Band I 11ac40 Low channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1584.000	42.8	-11.58	54.0	11.20	AV	114.00	150	Horizontal	N/A
1	1584.000	52.70	-11.58	74.0	21.30	Peak	114.00	150	Horizontal	Pass
2**	2965.500	38.5	-1.10	--	-38.50	AV	123.00	150	Horizontal	N/A
2	2965.500	50.59	-1.10	68.2	17.61	Peak	123.00	150	Horizontal	Pass
3**	5193.000	82.9	0.16	--	-82.90	AV	175.00	150	Horizontal	N/A
3	5193.000	90.39	0.16	--	84.61	Peak	175.00	150	Horizontal	Pass
4**	6978.000	46.6	8.02	--	-46.60	AV	299.00	150	Horizontal	N/A
4	6978.000	58.46	8.02	68.2	9.74	Peak	299.00	150	Horizontal	Pass
5**	9464.001	41.3	27.24	54.0	12.70	AV	188.00	150	Horizontal	Pass
5	9464.001	59.78	27.24	74.0	14.22	Peak	188.00	150	Horizontal	Pass
6**	11565.000	47.1	31.94	54.0	6.90	AV	337.00	150	Horizontal	Pass
6	11565.000	64.79	31.94	74.0	9.21	Peak	337.00	150	Horizontal	Pass

1 GHz to 18 GHz, ANT H Band I 11ac40 High channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1584.000	42.5	-11.58	54.0	11.50	AV	96.00	150	Horizontal	N/A
1	1584.000	51.03	-11.58	74.0	22.97	Peak	96.00	150	Horizontal	Pass
2**	2960.500	38.6	-0.77	--	-38.60	AV	193.00	150	Horizontal	N/A
2	2960.500	49.93	-0.77	68.2	18.27	Peak	193.00	150	Horizontal	Pass
3**	5236.000	82.3	-0.24	--	-82.30	AV	167.00	150	Horizontal	N/A
3	5236.000	90.51	-0.24	--	76.49	Peak	167.00	150	Horizontal	N/A
4**	6989.000	47.3	8.88	--	-47.30	AV	26.00	150	Horizontal	N/A
4	6989.000	57.73	8.88	68.2	10.47	Peak	26.00	150	Horizontal	Pass
5**	10283.500	44.3	29.35	--	-44.30	AV	284.00	150	Horizontal	N/A
5	10283.500	61.88	29.35	68.2	6.32	Peak	284.00	150	Horizontal	Pass
6**	11587.000	46.7	31.75	54.0	7.30	AV	237.00	150	Horizontal	N/A
6	11587.000	64.01	31.75	74.0	9.99	Peak	237.00	150	Horizontal	Pass

1 GHz to 18 GHz, ANT V Band I 11ac40 High channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1584.000	42.0	-11.58	54.0	12.00	AV	4.00	150	Vertical	N/A
1	1584.000	49.08	-11.58	74.0	24.92	Peak	4.00	150	Vertical	Pass
2**	2967.000	38.3	-1.29	--	-38.30	AV	326.00	150	Vertical	N/A
2	2967.000	50.49	-1.29	68.2	17.71	Peak	326.00	150	Vertical	Pass
3**	5240.000	84.6	-0.16	--	-84.60	AV	113.00	150	Vertical	N/A
3	5240.000	93.22	-0.16	--	19.78	Peak	113.00	150	Vertical	N/A
4**	6999.000	47.4	9.21	--	-47.40	AV	157.00	150	Vertical	N/A
4	6999.000	57.99	9.21	68.2	10.21	Peak	157.00	150	Vertical	Pass
5**	9926.000	43.2	28.52	--	-43.20	AV	224.00	150	Vertical	N/A
5	9926.000	60.52	28.52	68.2	7.68	Peak	224.00	150	Vertical	Pass
6**	11543.000	47.0	31.90	54.0	7.00	AV	196.00	150	Vertical	N/A
6	11543.000	64.48	31.90	74.0	9.52	Peak	196.00	150	Vertical	Pass

1 GHz to 18 GHz, ANT V Band I 11ac80 Low channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1485.000	39.0	-11.17	54.0	15.00	AV	183.00	150	Vertical	N/A
1	1485.000	49.16	-11.17	74.0	24.84	Peak	183.00	150	Vertical	Pass
2**	2964.500	39.3	-0.95	--	-39.30	AV	0.00	150	Vertical	N/A
2	2964.500	50.48	-0.95	68.2	17.72	Peak	0.00	150	Vertical	Pass
3**	5191.000	83.3	0.36	--	-83.30	AV	44.00	150	Vertical	N/A
3	5191.000	92.29	0.36	--	-48.29	Peak	44.00	150	Vertical	N/A
4**	6983.000	46.8	8.30	--	-46.80	AV	356.00	150	Vertical	N/A
4	6983.000	57.85	8.30	68.2	10.35	Peak	356.00	150	Vertical	Pass
5**	10371.500	44.3	29.54	--	-44.30	AV	219.00	150	Vertical	N/A
5	10371.500	62.58	29.54	68.2	5.62	Peak	219.00	150	Vertical	Pass
6**	11474.250	47.1	32.02	54.0	6.90	AV	153.00	150	Vertical	N/A
6	11474.250	64.03	32.02	74.0	9.97	Peak	153.00	150	Vertical	Pass

1 GHz to 18 GHz, ANT H Band I 11ac80 Low channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1584.000	43.1	-11.58	54.0	10.90	AV	114.00	150	Horizontal	N/A
1	1584.000	50.69	-11.58	74.0	23.31	Peak	114.00	150	Horizontal	Pass
2**	2981.500	38.4	-0.66	--	-38.40	AV	132.00	150	Horizontal	N/A
2	2981.500	50.43	-0.66	68.2	17.77	Peak	132.00	150	Horizontal	Pass
3**	5237.000	81.0	-0.17	--	-81.00	AV	131.00	150	Horizontal	N/A
3	5237.000	88.95	-0.17	--	42.05	Peak	131.00	150	Horizontal	N/A
4**	6954.000	46.4	7.92	--	-46.40	AV	87.00	150	Horizontal	N/A
4	6954.000	57.42	7.92	68.2	10.78	Peak	87.00	150	Horizontal	Pass
5**	10275.250	44.2	29.30	--	-44.20	AV	75.00	150	Horizontal	N/A
5	10275.250	61.95	29.30	68.2	6.25	Peak	75.00	150	Horizontal	Pass
6**	11556.750	47.8	31.97	54.0	6.20	AV	272.00	150	Horizontal	N/A
6	11556.750	64.18	31.97	74.0	9.82	Peak	272.00	150	Horizontal	Pass

1 GHz to 18 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**	1584.000	41.8	-11.58	54.0	12.20	AV	166.00	150	Vertical	N/A
1	1584.000	50.57	-11.58	74.0	23.43	Peak	166.00	150	Vertical	Pass
2**	2988.000	38.6	-0.56	--	-38.60	AV	4.00	150	Vertical	N/A
2	2988.000	50.21	-0.56	68.2	17.99	Peak	4.00	150	Vertical	Pass
3**	4830.000	40.0	-1.53	54.0	14.00	AV	185.00	150	Vertical	N/A
3	4830.000	50.74	-1.53	74.0	23.26	Peak	185.00	150	Vertical	Pass
4**	5739.000	97.7	1.90	--	-97.70	AV	97.00	150	Vertical	N/A
4	5739.000	105.61	1.90	--	-8.61	Peak	97.00	150	Vertical	N/A
5**	8025.750	40.0	24.14	54.0	14.00	AV	192.00	150	Vertical	N/A
5	8025.750	56.97	24.14	74.0	17.03	Peak	192.00	150	Vertical	Pass
6**	10165.250	43.4	28.85	--	-43.40	AV	229.00	150	Vertical	N/A
6	10165.250	61.51	28.85	68.2	6.69	Peak	229.00	150	Vertical	Pass

1 GHz to 18 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**	1584.000	43.2	-11.58	54.0	10.80	AV	114.00	150	Horizontal	N/A
1	1584.000	51.59	-11.58	74.0	22.41	Peak	114.00	150	Horizontal	Pass
2**	2976.000	39.1	-0.90	--	-39.10	AV	356.00	150	Horizontal	N/A
2	2976.000	50.61	-0.90	68.2	17.59	Peak	356.00	150	Horizontal	Pass
3**	4874.000	39.5	-0.91	54.0	14.50	AV	149.00	150	Horizontal	N/A
3	4874.000	51.28	-0.91	74.0	22.72	Peak	149.00	150	Horizontal	Pass
4**	5739.000	91.9	1.90	--	-91.90	AV	175.00	150	Horizontal	N/A
4	5739.000	99.96	1.90	--	75.04	Peak	175.00	150	Horizontal	N/A
5**	8116.500	38.9	23.85	54.0	15.10	AV	253.00	150	Horizontal	N/A
5	8116.500	56.37	23.85	74.0	17.63	Peak	253.00	150	Horizontal	Pass
6**	11479.750	47.1	32.14	54.0	6.90	AV	308.00	150	Horizontal	N/A
6	11479.750	64.00	32.14	74.0	10.00	Peak	308.00	150	Horizontal	Pass

1 GHz to 18 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**	1584.000	41.2	-11.58	54.0	12.80	AV	105.00	150	Horizontal	N/A
1	1584.000	49.90	-11.58	74.0	24.10	Peak	105.00	150	Horizontal	Pass
2**	2998.500	38.8	-0.34	--	-38.80	AV	263.00	150	Horizontal	N/A
2	2998.500	51.33	-0.34	68.2	16.87	Peak	263.00	150	Horizontal	Pass
3**	4182.000	37.6	-3.59	54.0	16.40	AV	53.00	150	Horizontal	N/A
3	4182.000	49.29	-3.59	74.0	24.71	Peak	53.00	150	Horizontal	Pass
4**	5778.000	92.1	2.20	--	-92.10	AV	185.00	150	Horizontal	N/A
4	5778.000	100.95	2.20	--	84.05	Peak	185.00	150	Horizontal	N/A
5**	8490.500	39.2	23.97	54.0	14.80	AV	322.00	150	Horizontal	N/A
5	8490.500	56.22	23.97	74.0	17.78	Peak	322.00	150	Horizontal	Pass
6**	11496.250	47.3	32.23	54.0	6.70	AV	275.00	150	Horizontal	N/A
6	11496.250	64.37	32.23	74.0	9.63	Peak	275.00	150	Horizontal	Pass

1 GHz to 18 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**	1584.000	38.8	-11.58	54.0	15.20	AV	360.00	150	Vertical	N/A
1	1584.000	48.69	-11.58	74.0	25.31	Peak	360.00	150	Vertical	Pass
2**	2962.500	38.6	-0.92	--	-38.60	AV	61.00	150	Vertical	N/A
2	2962.500	50.83	-0.92	68.2	17.37	Peak	61.00	150	Vertical	Pass
3**	4564.000	39.2	-2.39	54.0	14.80	AV	192.00	150	Vertical	N/A
3	4564.000	50.73	-2.39	74.0	23.27	Peak	192.00	150	Vertical	Pass
4**	5781.000	99.0	1.80	--	-99.00	AV	95.00	150	Vertical	N/A
4	5781.000	107.18	1.80	--	-12.18	Peak	95.00	150	Vertical	N/A
5**	8903.000	39.9	25.29	--	-39.90	AV	318.00	150	Vertical	N/A
5	8903.000	57.24	25.29	68.2	10.96	Peak	318.00	150	Vertical	Pass
6**	11581.500	47.0	31.80	54.0	7.00	AV	357.00	150	Vertical	N/A
6	11581.500	64.05	31.80	74.0	9.95	Peak	357.00	150	Vertical	Pass

1 GHz to 18 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**	1584.000	42.4	-11.58	54.0	11.60	AV	149.00	150	Vertical	N/A
1	1584.000	51.44	-11.58	74.0	22.56	Peak	149.00	150	Vertical	Pass
2**	2914.500	38.3	-1.79	--	-38.30	AV	43.00	150	Vertical	N/A
2	2914.500	50.91	-1.79	68.2	17.29	Peak	43.00	150	Vertical	Pass
3**	4178.000	37.7	-3.74	54.0	16.30	AV	17.00	150	Vertical	N/A
3	4178.000	49.23	-3.74	74.0	24.77	Peak	17.00	150	Vertical	Pass
4**	5818.000	96.4	2.44	--	-96.40	AV	105.00	150	Vertical	N/A
4	5818.000	105.85	2.44	--	-0.85	Peak	105.00	150	Vertical	N/A
5**	9205.500	41.4	26.35	--	-41.40	AV	0.00	150	Vertical	N/A
5	9205.500	58.34	26.35	68.2	9.86	Peak	0.00	150	Vertical	Pass
6**	11554.000	46.8	31.96	54.0	7.20	AV	6.00	150	Vertical	N/A
6	11554.000	64.06	31.96	74.0	9.94	Peak	6.00	150	Vertical	Pass

1 GHz to 18 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**	1584.000	42.1	-11.58	54.0	11.90	AV	351.00	150	Horizontal	N/A
1	1584.000	49.89	-11.58	74.0	24.11	Peak	351.00	150	Horizontal	Pass
2**	2926.000	37.6	-1.47	--	-37.60	AV	17.00	150	Horizontal	N/A
2	2926.000	50.71	-1.47	68.2	17.49	Peak	17.00	150	Horizontal	Pass
3**	4894.000	39.6	-0.88	54.0	14.40	AV	87.00	150	Horizontal	N/A
3	4894.000	50.54	-0.88	74.0	23.46	Peak	87.00	150	Horizontal	Pass
4**	5819.000	91.9	2.43	--	-91.90	AV	175.00	150	Horizontal	N/A
4	5819.000	99.21	2.43	--	75.79	Peak	175.00	150	Horizontal	N/A
5**	8479.500	39.2	23.92	54.0	14.80	AV	280.00	150	Horizontal	N/A
5	8479.500	56.41	23.92	74.0	17.59	Peak	280.00	150	Horizontal	Pass
6**	11045.250	46.2	31.31	54.0	7.80	AV	224.00	150	Horizontal	N/A
6	11045.250	64.05	31.31	74.0	9.95	Peak	224.00	150	Horizontal	Pass

1 GHz to 18 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**	1583.500	37.4	-11.62	54.0	16.60	AV	96.00	150	Horizontal	N/A
1	1583.500	52.02	-11.62	74.0	21.98	Peak	96.00	150	Horizontal	Pass
2**	2996.500	38.5	-0.43	--	-38.50	AV	105.00	150	Horizontal	N/A
2	2996.500	50.57	-0.43	68.2	17.63	Peak	105.00	150	Horizontal	Pass
3**	4797.000	39.8	-1.44	54.0	14.20	AV	70.00	150	Horizontal	N/A
3	4797.000	50.55	-1.44	74.0	23.45	Peak	70.00	150	Horizontal	Pass
4**	5751.000	91.7	1.75	--	-91.70	AV	185.00	150	Horizontal	N/A
4	5751.000	99.57	1.75	--	85.43	Peak	185.00	150	Horizontal	N/A
5**	9491.500	41.7	27.52	54.0	12.30	AV	331.00	150	Horizontal	N/A
5	9491.500	59.08	27.52	74.0	14.92	Peak	331.00	150	Horizontal	Pass
6**	11490.750	47.1	32.21	54.0	6.90	AV	7.00	150	Horizontal	N/A
6	11490.750	64.06	32.21	74.0	9.94	Peak	7.00	150	Horizontal	Pass

1 GHz to 18 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**	1584.000	39.3	-11.58	54.0	14.70	AV	158.00	150	Vertical	N/A
1	1584.000	47.73	-11.58	74.0	26.27	Peak	158.00	150	Vertical	Pass
2**	2960.000	38.5	-0.72	--	-38.50	AV	356.00	150	Vertical	N/A
2	2960.000	50.48	-0.72	68.2	17.72	Peak	356.00	150	Vertical	Pass
3**	4588.000	39.2	-2.11	54.0	14.80	AV	307.00	150	Vertical	N/A
3	4588.000	50.81	-2.11	74.0	23.19	Peak	307.00	150	Vertical	Pass
4**	5751.000	97.7	1.75	--	-97.70	AV	87.00	150	Vertical	N/A
4	5751.000	105.56	1.75	--	-18.56	Peak	87.00	150	Vertical	N/A
5**	9224.750	41.2	26.50	--	-41.20	AV	179.00	150	Vertical	N/A
5	9224.750	58.52	26.50	68.2	9.68	Peak	179.00	150	Vertical	Pass
6**	11479.750	46.9	32.14	54.0	7.10	AV	207.00	150	Vertical	N/A
6	11479.750	63.68	32.14	74.0	10.32	Peak	207.00	150	Vertical	Pass

1 GHz to 18 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**	1584.000	41.6	-11.58	54.0	12.40	AV	360.00	150	Vertical	N/A
1	1584.000	50.31	-11.58	74.0	23.69	Peak	360.00	150	Vertical	Pass
2**	2996.500	38.4	-0.43	--	-38.40	AV	229.00	150	Vertical	N/A
2	2996.500	51.28	-0.43	68.2	16.92	Peak	229.00	150	Vertical	Pass
3**	4825.000	39.8	-1.29	54.0	14.20	AV	0.00	150	Vertical	N/A
3	4825.000	51.06	-1.29	74.0	22.94	Peak	0.00	150	Vertical	Pass
4**	5778.000	98.5	2.20	--	-98.50	AV	87.00	150	Vertical	N/A
4	5778.000	106.27	2.20	--	-19.27	Peak	87.00	150	Vertical	N/A
5**	9472.250	42.1	27.44	54.0	11.90	AV	159.00	150	Vertical	N/A
5	9472.250	58.80	27.44	74.0	15.20	Peak	159.00	150	Vertical	Pass
6**	11477.000	47.3	32.08	54.0	6.70	AV	318.00	150	Vertical	N/A
6	11477.000	64.55	32.08	74.0	9.45	Peak	318.00	150	Vertical	Pass

1 GHz to 18 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**	1584.000	42.6	-11.58	54.0	11.40	AV	105.00	150	Horizontal	N/A
1	1584.000	50.97	-11.58	74.0	23.03	Peak	105.00	150	Horizontal	Pass
2**	2961.500	38.7	-0.85	--	-38.70	AV	228.00	150	Horizontal	N/A
2	2961.500	50.69	-0.85	68.2	17.51	Peak	228.00	150	Horizontal	Pass
3**	4899.000	40.0	-1.01	54.0	14.00	AV	291.00	150	Horizontal	N/A
3	4899.000	50.52	-1.01	74.0	23.48	Peak	291.00	150	Horizontal	Pass
4**	5778.000	92.0	2.20	--	-92.00	AV	194.00	150	Horizontal	N/A
4	5778.000	100.25	2.20	--	93.75	Peak	194.00	150	Horizontal	N/A
5**	9128.500	40.7	25.97	54.0	13.30	AV	1.00	150	Horizontal	N/A
5	9128.500	58.67	25.97	74.0	15.33	Peak	1.00	150	Horizontal	Pass
6**	11471.500	46.8	31.97	54.0	7.20	AV	137.00	150	Horizontal	N/A
6	11471.500	64.90	31.97	74.0	9.10	Peak	137.00	150	Horizontal	Pass

1 GHz to 18 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**	1583.500	36.5	-11.62	54.0	17.50	AV	105.00	150	Horizontal	N/A
1	1583.500	50.01	-11.62	74.0	23.99	Peak	105.00	150	Horizontal	Pass
2**	2908.500	38.5	-1.42	--	-38.50	AV	351.00	150	Horizontal	N/A
2	2908.500	51.26	-1.42	68.2	16.94	Peak	351.00	150	Horizontal	Pass
3**	4894.000	39.5	-0.88	54.0	14.50	AV	281.00	150	Horizontal	N/A
3	4894.000	51.80	-0.88	74.0	22.20	Peak	281.00	150	Horizontal	Pass
4**	5829.000	91.4	2.58	--	-91.40	AV	184.00	150	Horizontal	N/A
4	5829.000	99.06	2.58	--	84.94	Peak	184.00	150	Horizontal	N/A
5**	9271.500	40.9	26.62	--	-40.90	AV	234.00	150	Horizontal	N/A
5	9271.500	58.65	26.62	68.2	9.55	Peak	234.00	150	Horizontal	Pass
6**	11518.250	47.0	32.08	54.0	7.00	AV	169.00	150	Horizontal	N/A
6	11518.250	64.87	32.08	74.0	9.13	Peak	169.00	150	Horizontal	Pass

1 GHz to 18 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**	1584.000	40.4	-11.58	54.0	13.60	AV	210.00	150	Vertical	N/A
1	1584.000	48.35	-11.58	74.0	25.65	Peak	210.00	150	Vertical	Pass
2**	2961.500	38.7	-0.85	--	-38.70	AV	16.00	150	Vertical	N/A
2	2961.500	50.21	-0.85	68.2	17.99	Peak	16.00	150	Vertical	Pass
3**	4901.000	39.7	-1.10	54.0	14.30	AV	88.00	150	Vertical	N/A
3	4901.000	51.50	-1.10	74.0	22.50	Peak	88.00	150	Vertical	Pass
4**	5819.000	98.4	2.43	--	-98.40	AV	105.00	150	Vertical	N/A
4	5819.000	105.56	2.43	--	-0.56	Peak	105.00	150	Vertical	N/A
5**	9392.500	41.7	27.06	54.0	12.30	AV	313.00	150	Vertical	N/A
5	9392.500	59.14	27.06	74.0	14.86	Peak	313.00	150	Vertical	Pass
6**	11567.750	46.9	31.92	54.0	7.10	AV	71.00	150	Vertical	N/A
6	11567.750	64.07	31.92	74.0	9.93	Peak	71.00	150	Vertical	Pass

1 GHz to 18 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**	1584.500	43.2	-11.54	54.0	10.80	AV	194.00	150	Vertical	N/A
1	1584.500	48.87	-11.54	74.0	25.13	Peak	194.00	150	Vertical	Pass
2**	3000.000	38.6	-0.37	--	-38.60	AV	317.00	150	Vertical	N/A
2	3000.000	50.48	-0.37	68.2	17.72	Peak	317.00	150	Vertical	Pass
3**	4817.000	39.8	-1.68	54.0	14.20	AV	184.00	150	Vertical	N/A
3	4817.000	50.94	-1.68	74.0	23.06	Peak	184.00	150	Vertical	Pass
4**	5768.000	95.1	1.92	--	-95.10	AV	87.00	150	Vertical	N/A
4	5768.000	102.87	1.92	--	-15.87	Peak	87.00	150	Vertical	N/A
5**	8710.500	39.7	24.56	--	-39.70	AV	169.00	150	Vertical	N/A
5	8710.500	56.98	24.56	68.2	11.22	Peak	169.00	150	Vertical	Pass
6**	11499.000	47.5	32.22	54.0	6.50	AV	37.00	150	Vertical	N/A
6	11499.000	65.00	32.22	74.0	9.00	Peak	37.00	150	Vertical	Pass

1 GHz to 18 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**	1583.500	36.6	-11.62	54.0	17.40	AV	351.00	150	Horizontal	N/A
1	1583.500	50.58	-11.62	74.0	23.42	Peak	351.00	150	Horizontal	Pass
2**	2973.000	38.3	-0.93	--	-38.30	AV	26.00	150	Horizontal	N/A
2	2973.000	50.41	-0.93	68.2	17.79	Peak	26.00	150	Horizontal	Pass
3**	5061.000	40.5	-0.21	54.0	13.50	AV	166.00	150	Horizontal	N/A
3	5061.000	51.72	-0.21	74.0	22.28	Peak	166.00	150	Horizontal	Pass
4**	5759.000	88.9	1.81	--	-88.90	AV	166.00	150	Horizontal	N/A
4	5759.000	96.85	1.81	--	69.15	Peak	166.00	150	Horizontal	N/A
5**	9895.750	42.9	28.32	--	-42.90	AV	38.00	150	Horizontal	N/A
5	9895.750	61.22	28.32	68.2	6.98	Peak	38.00	150	Horizontal	Pass
6**	11460.500	46.7	31.73	54.0	7.30	AV	1.00	150	Horizontal	N/A
6	11460.500	64.05	31.73	74.0	9.95	Peak	1.00	150	Horizontal	Pass

1 GHz to 18 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**	1584.000	43.4	-11.58	54.0	10.60	AV	105.00	150	Horizontal	N/A
1	1584.000	51.59	-11.58	74.0	22.41	Peak	105.00	150	Horizontal	Pass
2**	2944.000	38.7	-1.05	--	-38.70	AV	166.00	150	Horizontal	N/A
2	2944.000	50.34	-1.05	68.2	17.86	Peak	166.00	150	Horizontal	Pass
3**	4715.000	39.1	-2.04	54.0	14.90	AV	238.00	150	Horizontal	N/A
3	4715.000	50.08	-2.04	74.0	23.92	Peak	238.00	150	Horizontal	Pass
4**	5808.000	88.6	2.73	--	-88.60	AV	194.00	150	Horizontal	N/A
4	5808.000	97.53	2.73	--	96.47	Peak	194.00	150	Horizontal	N/A
5**	8848.000	39.8	25.09	--	-39.80	AV	360.00	150	Horizontal	N/A
5	8848.000	57.69	25.09	68.2	10.51	Peak	360.00	150	Horizontal	Pass
6**	11479.750	46.8	32.14	54.0	7.20	AV	256.00	150	Horizontal	N/A
6	11479.750	64.47	32.14	74.0	9.53	Peak	256.00	150	Horizontal	Pass

1 GHz to 18 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**	1584.000	41.0	-11.58	54.0	13.00	AV	10.00	150	Vertical	N/A
1	1584.000	48.30	-11.58	74.0	25.70	Peak	10.00	150	Vertical	Pass
2**	2972.500	38.5	-0.98	--	-38.50	AV	35.00	150	Vertical	N/A
2	2972.500	50.40	-0.98	68.2	17.80	Peak	35.00	150	Vertical	Pass
3**	4788.000	40.1	-1.16	54.0	13.90	AV	131.00	150	Vertical	N/A
3	4788.000	50.87	-1.16	74.0	23.13	Peak	131.00	150	Vertical	Pass
4**	5798.000	95.9	2.07	--	-95.90	AV	87.00	150	Vertical	N/A
4	5798.000	103.57	2.07	--	-16.57	Peak	87.00	150	Vertical	N/A
5**	9730.750	42.4	28.36	--	-42.40	AV	0.00	150	Vertical	N/A
5	9730.750	60.19	28.36	68.2	8.01	Peak	0.00	150	Vertical	Pass
6**	11479.750	46.9	32.14	54.0	7.10	AV	260.00	150	Vertical	N/A
6	11479.750	63.68	32.14	74.0	10.32	Peak	260.00	150	Vertical	Pass

1 GHz to 18 GHz, ANT V Band IV 11ac20 Low channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1584.000	40.8	-11.58	54.0	13.20	AV	185.00	150	Vertical	N/A
1	1584.000	48.42	-11.58	74.0	25.58	Peak	185.00	150	Vertical	Pass
2**	2975.000	39.0	-0.78	--	-39.00	AV	26.00	150	Vertical	N/A
2	2975.000	50.43	-0.78	68.2	17.77	Peak	26.00	150	Vertical	Pass
3**	5102.000	41.2	-0.17	54.0	12.80	AV	175.00	150	Vertical	N/A
3	5102.000	52.63	-0.17	74.0	21.37	Peak	175.00	150	Vertical	Pass
4**	5740.000	97.8	1.90	--	-97.80	AV	78.00	150	Vertical	N/A
4	5740.000	105.64	1.90	--	-27.64	Peak	78.00	150	Vertical	N/A
5**	9348.500	41.6	27.02	54.0	12.40	AV	47.00	150	Vertical	N/A
5	9348.500	58.51	27.02	74.0	15.49	Peak	47.00	150	Vertical	Pass
6**	11532.000	47.0	31.95	54.0	7.00	AV	253.00	150	Vertical	N/A
6	11532.000	63.73	31.95	74.0	10.27	Peak	253.00	150	Vertical	Pass

1 GHz to 18 GHz, ANT H Band IV 11ac20 Low channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1484.500	39.8	-11.18	54.0	14.20	AV	316.00	150	Horizontal	N/A
1	1484.500	49.87	-11.18	74.0	24.13	Peak	316.00	150	Horizontal	Pass
2**	2998.000	38.9	-0.36	--	-38.90	AV	360.00	150	Horizontal	N/A
2	2998.000	50.76	-0.36	68.2	17.44	Peak	360.00	150	Horizontal	Pass
3**	4680.000	39.1	-1.82	54.0	14.90	AV	317.00	150	Horizontal	N/A
3	4680.000	50.46	-1.82	74.0	23.54	Peak	317.00	150	Horizontal	Pass
4**	5739.000	91.3	1.90	--	-91.30	AV	176.00	150	Horizontal	N/A
4	5739.000	99.71	1.90	--	76.29	Peak	176.00	150	Horizontal	N/A
5**	8762.750	39.8	25.40	--	-39.80	AV	359.00	150	Horizontal	N/A
5	8762.750	57.69	25.40	68.2	10.51	Peak	359.00	150	Horizontal	Pass
6**	11562.250	46.6	31.96	54.0	7.40	AV	117.00	150	Horizontal	N/A
6	11562.250	63.98	31.96	74.0	10.02	Peak	117.00	150	Horizontal	Pass

1 GHz to 18 GHz, ANT H Band IV 11ac20 Middle channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1584.000	43.6	-11.58	54.0	10.40	AV	97.00	150	Horizontal	N/A
1	1584.000	51.50	-11.58	74.0	22.50	Peak	97.00	150	Horizontal	Pass
2**	2987.000	38.0	-0.68	--	-38.00	AV	35.00	150	Horizontal	N/A
2	2987.000	51.29	-0.68	68.2	16.91	Peak	35.00	150	Horizontal	Pass
3**	5061.000	40.9	-0.21	54.0	13.10	AV	360.00	150	Horizontal	N/A
3	5061.000	51.42	-0.21	74.0	22.58	Peak	360.00	150	Horizontal	Pass
4**	5781.000	92.5	1.80	--	-92.50	AV	175.00	150	Horizontal	N/A
4	5781.000	100.31	1.80	--	74.69	Peak	175.00	150	Horizontal	N/A
5**	9161.500	40.7	26.11	54.0	13.30	AV	188.00	150	Horizontal	N/A
5	9161.500	58.37	26.11	74.0	15.63	Peak	188.00	150	Horizontal	Pass
6**	11496.250	47.4	32.23	54.0	6.60	AV	5.00	150	Horizontal	N/A
6	11496.250	64.29	32.23	74.0	9.71	Peak	5.00	150	Horizontal	Pass

1 GHz to 18 GHz, ANT V Band IV 11ac20 Middle channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1584.000	41.6	-11.58	54.0	12.40	AV	166.00	150	Vertical	N/A
1	1584.000	49.41	-11.58	74.0	24.59	Peak	166.00	150	Vertical	Pass
2**	2996.000	38.2	-0.46	--	-38.20	AV	350.00	150	Vertical	N/A
2	2996.000	50.54	-0.46	68.2	17.66	Peak	350.00	150	Vertical	Pass
3**	4523.000	39.3	-2.40	54.0	14.70	AV	211.00	150	Vertical	N/A
3	4523.000	50.60	-2.40	74.0	23.40	Peak	211.00	150	Vertical	Pass
4**	5789.000	98.9	2.00	--	-98.90	AV	105.00	150	Vertical	N/A
4	5789.000	106.66	2.00	--	-1.66	Peak	105.00	150	Vertical	N/A
5**	9917.750	43.3	28.52	--	-43.30	AV	88.00	150	Vertical	N/A
5	9917.750	60.98	28.52	68.2	7.22	Peak	88.00	150	Vertical	Pass
6**	11589.750	46.8	31.73	54.0	7.20	AV	200.00	150	Vertical	N/A
6	11589.750	63.83	31.73	74.0	10.17	Peak	200.00	150	Vertical	Pass

1 GHz to 18 GHz, ANT V Band IV 11ac20 High channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1584.000	41.8	-11.58	54.0	12.20	AV	360.00	150	Vertical	N/A
1	1584.000	49.98	-11.58	74.0	24.02	Peak	360.00	150	Vertical	Pass
2**	2976.000	38.8	-0.90	--	-38.80	AV	360.00	150	Vertical	N/A
2	2976.000	50.17	-0.90	68.2	18.03	Peak	360.00	150	Vertical	Pass
3**	5012.000	40.7	-0.54	54.0	13.30	AV	350.00	150	Vertical	N/A
3	5012.000	52.28	-0.54	74.0	21.72	Peak	350.00	150	Vertical	Pass
4**	5818.000	97.0	2.44	--	-97.00	AV	87.00	150	Vertical	N/A
4	5818.000	105.73	2.44	--	-18.73	Peak	87.00	150	Vertical	N/A
5**	9620.750	42.7	27.72	--	-42.70	AV	0.00	150	Vertical	N/A
5	9620.750	60.11	27.72	68.2	8.09	Peak	0.00	150	Vertical	Pass
6**	11518.250	46.9	32.08	54.0	7.10	AV	187.00	150	Vertical	N/A
6	11518.250	64.46	32.08	74.0	9.54	Peak	187.00	150	Vertical	Pass

1 GHz to 18 GHz, ANT H Band IV 11ac20 High channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1584.000	43.3	-11.58	54.0	10.70	AV	114.00	150	Horizontal	N/A
1	1584.000	51.03	-11.58	74.0	22.97	Peak	114.00	150	Horizontal	Pass
2**	2961.000	38.7	-0.81	--	-38.70	AV	359.00	150	Horizontal	N/A
2	2961.000	50.09	-0.81	68.2	18.11	Peak	359.00	150	Horizontal	Pass
3**	4675.000	39.5	-1.68	54.0	14.50	AV	96.00	150	Horizontal	N/A
3	4675.000	50.85	-1.68	74.0	23.15	Peak	96.00	150	Horizontal	Pass
4**	5822.000	90.9	2.41	--	-90.90	AV	175.00	150	Horizontal	N/A
4	5822.000	98.54	2.41	--	76.46	Peak	175.00	150	Horizontal	N/A
5**	9827.000	43.2	28.37	--	-43.20	AV	189.00	150	Horizontal	N/A
5	9827.000	60.95	28.37	68.2	7.25	Peak	189.00	150	Horizontal	Pass
6**	11017.750	45.8	31.07	54.0	8.20	AV	152.00	150	Horizontal	N/A
6	11017.750	63.70	31.07	74.0	10.30	Peak	152.00	150	Horizontal	Pass

1 GHz to 18 GHz, ANT H Band IV 11ac40 Low channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1584.000	42.8	-11.58	54.0	11.20	AV	96.00	150	Horizontal	N/A
1	1584.000	49.97	-11.58	74.0	24.03	Peak	96.00	150	Horizontal	Pass
2**	2992.500	38.2	-0.50	--	-38.20	AV	9.00	150	Horizontal	N/A
2	2992.500	50.81	-0.50	68.2	17.39	Peak	9.00	150	Horizontal	Pass
3**	4777.000	39.5	-1.35	54.0	14.50	AV	273.00	150	Horizontal	N/A
3	4777.000	50.57	-1.35	74.0	23.43	Peak	273.00	150	Horizontal	Pass
4**	5770.000	89.4	2.06	--	-89.40	AV	185.00	150	Horizontal	N/A
4	5770.000	96.85	2.06	--	88.15	Peak	185.00	150	Horizontal	N/A
5**	8999.250	39.9	25.43	--	-39.90	AV	164.00	150	Horizontal	N/A
5	8999.250	57.61	25.43	68.2	10.59	Peak	164.00	150	Horizontal	Pass
6**	11886.750	45.4	30.90	54.0	8.60	AV	360.00	150	Horizontal	N/A
6	11886.750	64.01	30.90	74.0	9.99	Peak	360.00	150	Horizontal	Pass

1 GHz to 18 GHz, ANT V Band IV 11ac40 Low channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1583.500	35.4	-11.62	54.0	18.60	AV	238.00	150	Vertical	N/A
1	1583.500	48.67	-11.62	74.0	25.33	Peak	238.00	150	Vertical	Pass
2**	2981.500	38.6	-0.66	--	-38.60	AV	158.00	150	Vertical	N/A
2	2981.500	50.59	-0.66	68.2	17.61	Peak	158.00	150	Vertical	Pass
3**	4789.000	39.6	-1.13	54.0	14.40	AV	219.00	150	Vertical	N/A
3	4789.000	50.50	-1.13	74.0	23.50	Peak	219.00	150	Vertical	Pass
4**	5761.000	94.7	1.81	--	-94.70	AV	78.00	150	Vertical	N/A
4	5761.000	102.75	1.81	--	-24.75	Peak	78.00	150	Vertical	N/A
5**	8056.000	39.5	24.30	54.0	14.50	AV	55.00	150	Vertical	N/A
5	8056.000	56.46	24.30	74.0	17.54	Peak	55.00	150	Vertical	Pass
6**	11515.500	46.9	32.10	54.0	7.10	AV	251.00	150	Vertical	N/A
6	11515.500	64.18	32.10	74.0	9.82	Peak	251.00	150	Vertical	Pass

1 GHz to 18 GHz, ANT V Band IV 11ac40 High channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1584.000	41.3	-11.58	54.0	12.70	AV	359.00	150	Vertical	N/A
1	1584.000	49.57	-11.58	74.0	24.43	Peak	359.00	150	Vertical	Pass
2**	2993.000	38.2	-0.53	--	-38.20	AV	70.00	150	Vertical	N/A
2	2993.000	50.92	-0.53	68.2	17.28	Peak	70.00	150	Vertical	Pass
3**	4654.000	39.1	-2.07	54.0	14.90	AV	25.00	150	Vertical	N/A
3	4654.000	50.06	-2.07	74.0	23.94	Peak	25.00	150	Vertical	Pass
4**	5792.000	95.9	1.85	--	-95.90	AV	87.00	150	Vertical	N/A
4	5792.000	103.78	1.85	--	-16.78	Peak	87.00	150	Vertical	N/A
5**	9235.750	40.9	26.58	--	-40.90	AV	207.00	150	Vertical	N/A
5	9235.750	59.44	26.58	68.2	8.76	Peak	207.00	150	Vertical	Pass
6**	11570.500	46.9	31.89	54.0	7.10	AV	216.00	150	Vertical	N/A
6	11570.500	63.89	31.89	74.0	10.11	Peak	216.00	150	Vertical	Pass

1 GHz to 18 GHz, ANT H Band IV 11ac40 High channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1584.000	43.5	-11.58	54.0	10.50	AV	96.00	150	Horizontal	N/A
1	1584.000	51.38	-11.58	74.0	22.62	Peak	96.00	150	Horizontal	Pass
2**	2991.500	38.5	-0.55	--	-38.50	AV	16.00	150	Horizontal	N/A
2	2991.500	50.35	-0.55	68.2	17.85	Peak	16.00	150	Horizontal	Pass
3**	4709.000	40.1	-1.50	54.0	13.90	AV	0.00	150	Horizontal	N/A
3	4709.000	50.62	-1.50	74.0	23.38	Peak	0.00	150	Horizontal	Pass
4**	5807.000	88.6	2.69	--	-88.60	AV	194.00	150	Horizontal	N/A
4	5807.000	96.73	2.69	--	97.27	Peak	194.00	150	Horizontal	N/A
5**	8567.500	39.4	24.23	--	-39.40	AV	313.00	150	Horizontal	N/A
5	8567.500	56.53	24.23	68.2	11.67	Peak	313.00	150	Horizontal	Pass
6**	11499.000	47.0	32.22	54.0	7.00	AV	276.00	150	Horizontal	N/A
6	11499.000	64.59	32.22	74.0	9.41	Peak	276.00	150	Horizontal	Pass

1 GHz to 18 GHz, ANT H Band IV 11ac80 Low channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1584.000	42.5	-11.58	54.0	11.50	AV	359.00	150	Horizontal	N/A
1	1584.000	50.45	-11.58	74.0	23.55	Peak	359.00	150	Horizontal	Pass
2**	2949.000	39.1	-0.69	--	-39.10	AV	123.00	150	Horizontal	N/A
2	2949.000	50.64	-0.69	68.2	17.56	Peak	123.00	150	Horizontal	Pass
3**	4944.000	39.8	-1.05	54.0	14.20	AV	4.00	150	Horizontal	N/A
3	4944.000	51.30	-1.05	74.0	22.70	Peak	4.00	150	Horizontal	Pass
4**	5766.000	86.9	2.08	--	-86.90	AV	175.00	150	Horizontal	N/A
4	5766.000	95.34	2.08	--	79.66	Peak	175.00	150	Horizontal	N/A
5**	8168.750	38.8	24.35	54.0	15.20	AV	121.00	150	Horizontal	N/A
5	8168.750	56.92	24.35	74.0	17.08	Peak	121.00	150	Horizontal	Pass
6**	11435.750	46.5	31.51	54.0	7.50	AV	158.00	150	Horizontal	N/A
6	11435.750	64.26	31.51	74.0	9.74	Peak	158.00	150	Horizontal	Pass

1 GHz to 18 GHz, ANT V Band IV 11ac80 Low channel

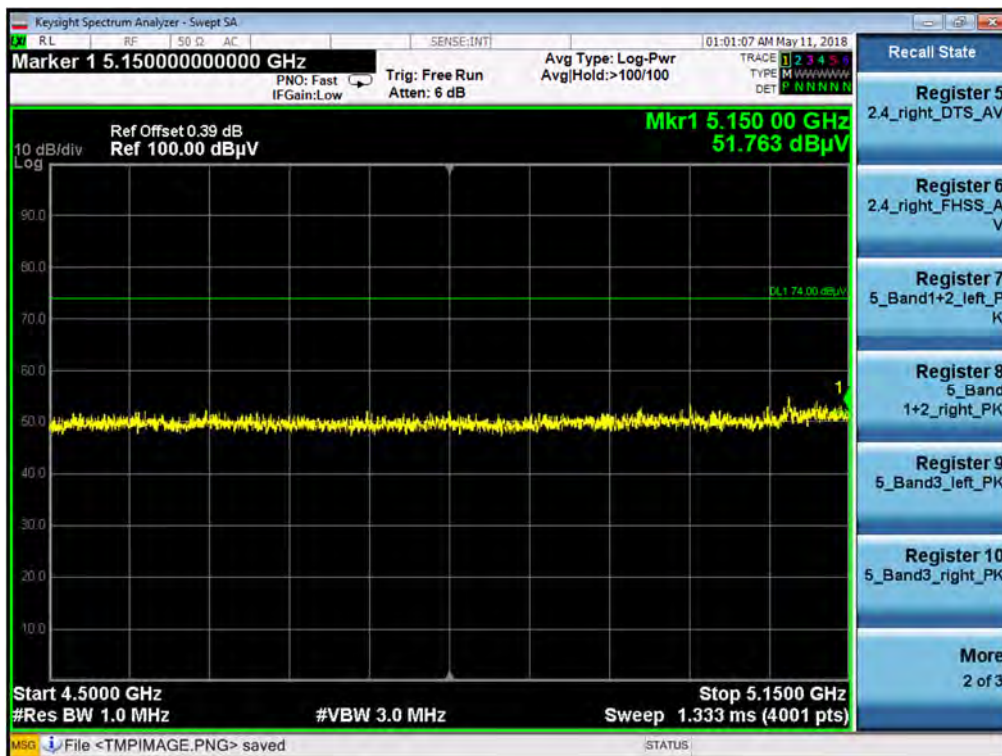
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1584.000	41.0	-11.58	54.0	13.00	AV	210.00	150	Vertical	N/A
1	1584.000	48.97	-11.58	74.0	25.03	Peak	210.00	150	Vertical	Pass
2**	2911.500	38.7	-1.69	--	-38.70	AV	246.00	150	Vertical	N/A
2	2911.500	50.69	-1.69	68.2	17.51	Peak	246.00	150	Vertical	Pass
3**	5766.000	93.0	2.08	--	-93.00	AV	105.00	150	Vertical	N/A
3	5766.000	101.50	2.08	--	3.50	Peak	105.00	150	Vertical	N/A
4**	7525.250	38.8	23.90	54.0	15.20	AV	266.00	150	Vertical	N/A
4	7525.250	56.77	23.90	74.0	17.23	Peak	266.00	150	Vertical	Pass
5**	9816.001	43.4	28.36	--	-43.40	AV	257.00	150	Vertical	N/A
5	9816.001	61.10	28.36	68.2	7.10	Peak	257.00	150	Vertical	Pass
6**	11408.250	46.1	31.39	54.0	7.90	AV	125.00	150	Vertical	N/A
6	11408.250	63.84	31.39	74.0	10.16	Peak	125.00	150	Vertical	Pass

A.7.2 Band Edge (Restricted-band)

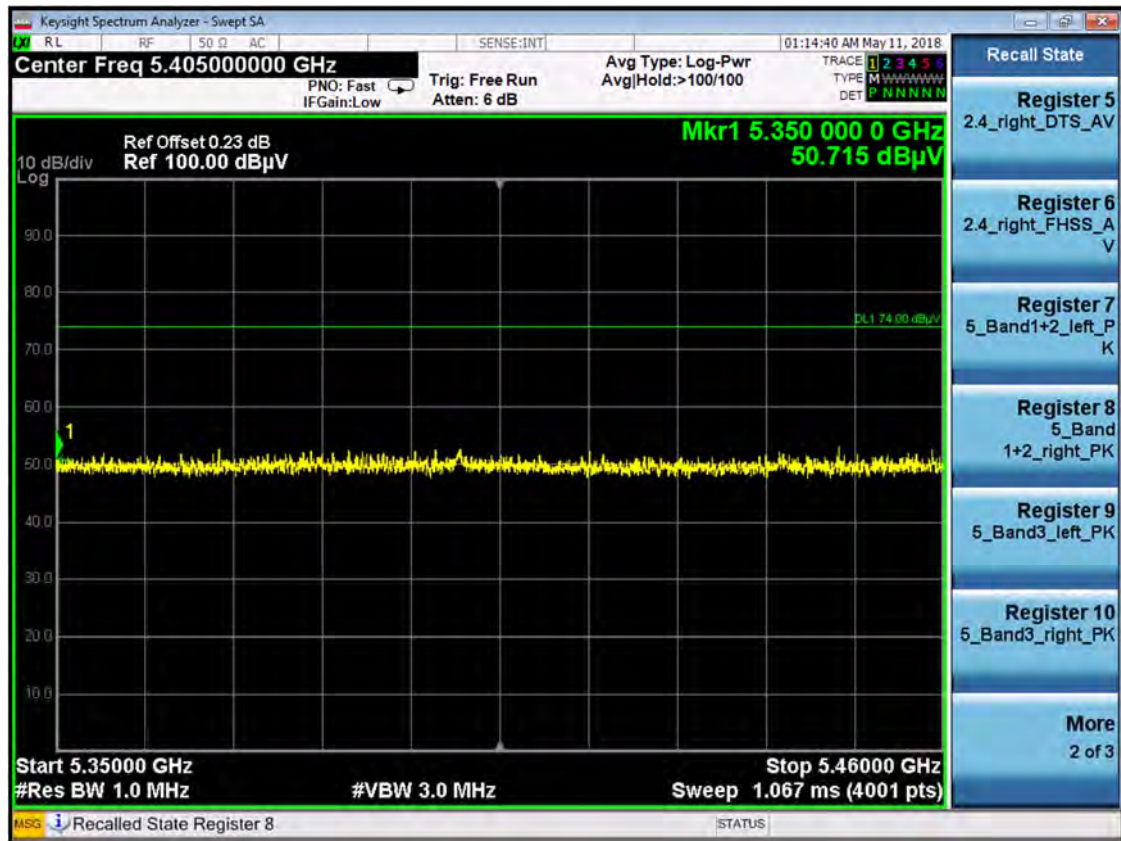
Test Band	Mode	Channel	Verdict
Band I	802.11a	Low	Pass
		High	Pass
	802.11n(HT20)	Low	Pass
		High	Pass
	802.11n(HT40)	Low	Pass
		High	Pass
	802.11ac(HT20)	Low	Pass
		High	Pass
802.11ac(HT40)	Low	Pass	
	High	Pass	
802.11ac(HT80)	Low	Pass	
	High	Pass	
Band IV	802.11a	Low	Pass
		High	Pass
	802.11n(HT20)	Low	Pass
		High	Pass
	802.11n(HT40)	Low	Pass
		High	Pass
	802.11ac(HT20)	Low	Pass
		High	Pass
802.11ac(HT40)	Low	Pass	
	High	Pass	
802.11ac(HT80)	Low	Pass	
	High	Pass	

Test Plots

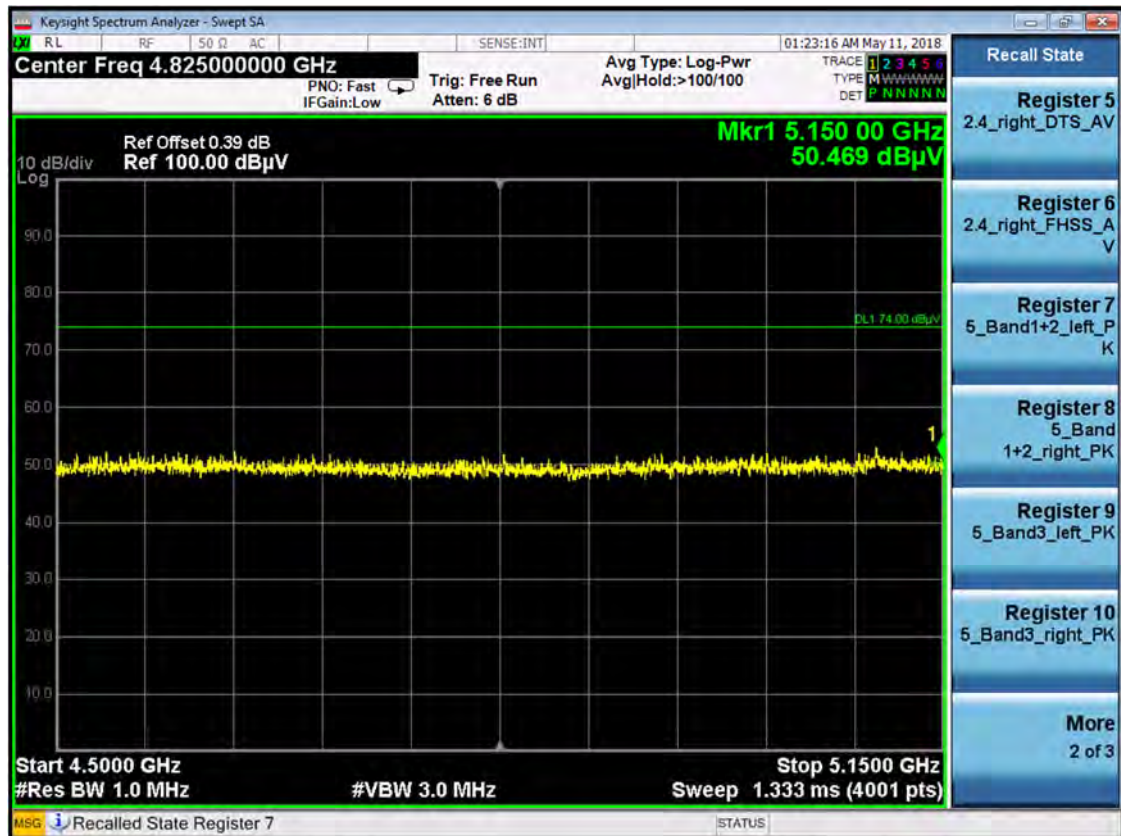
Band I 11a CH36



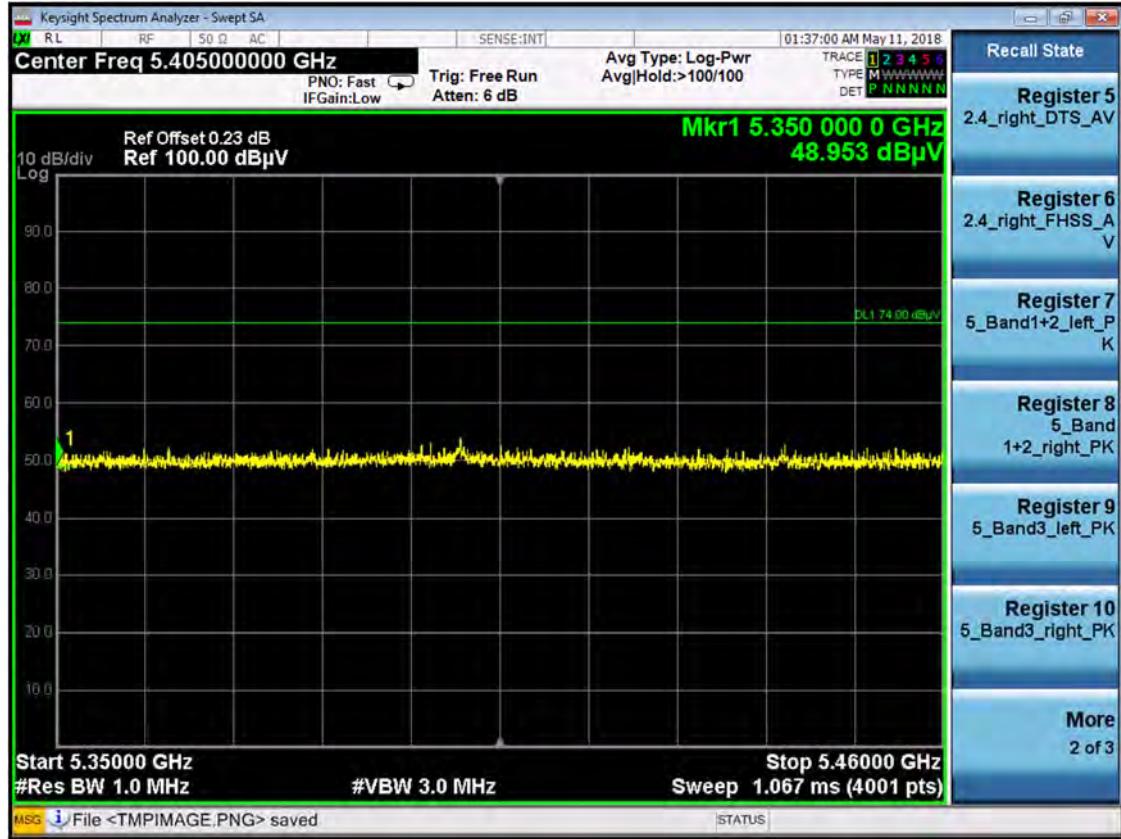
Band I 11a CH48



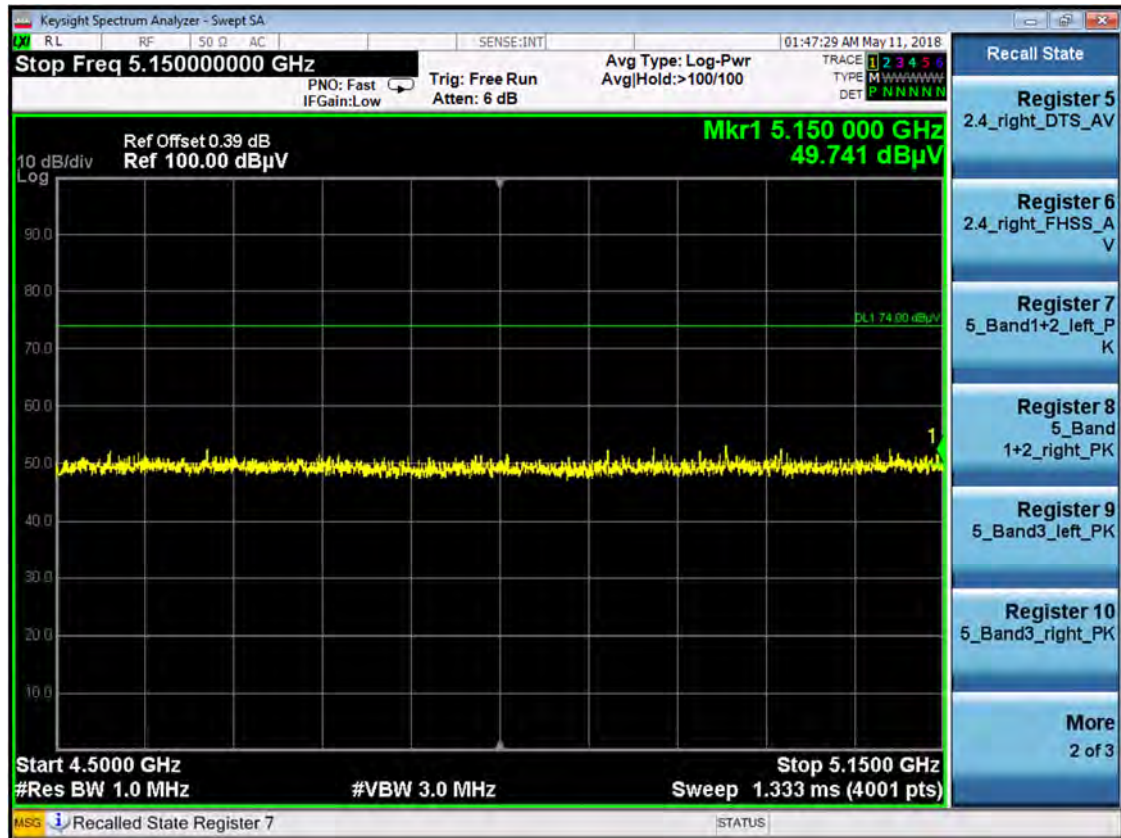
Band I 11n(HT20) CH36



Band I 11n(HT20) CH48



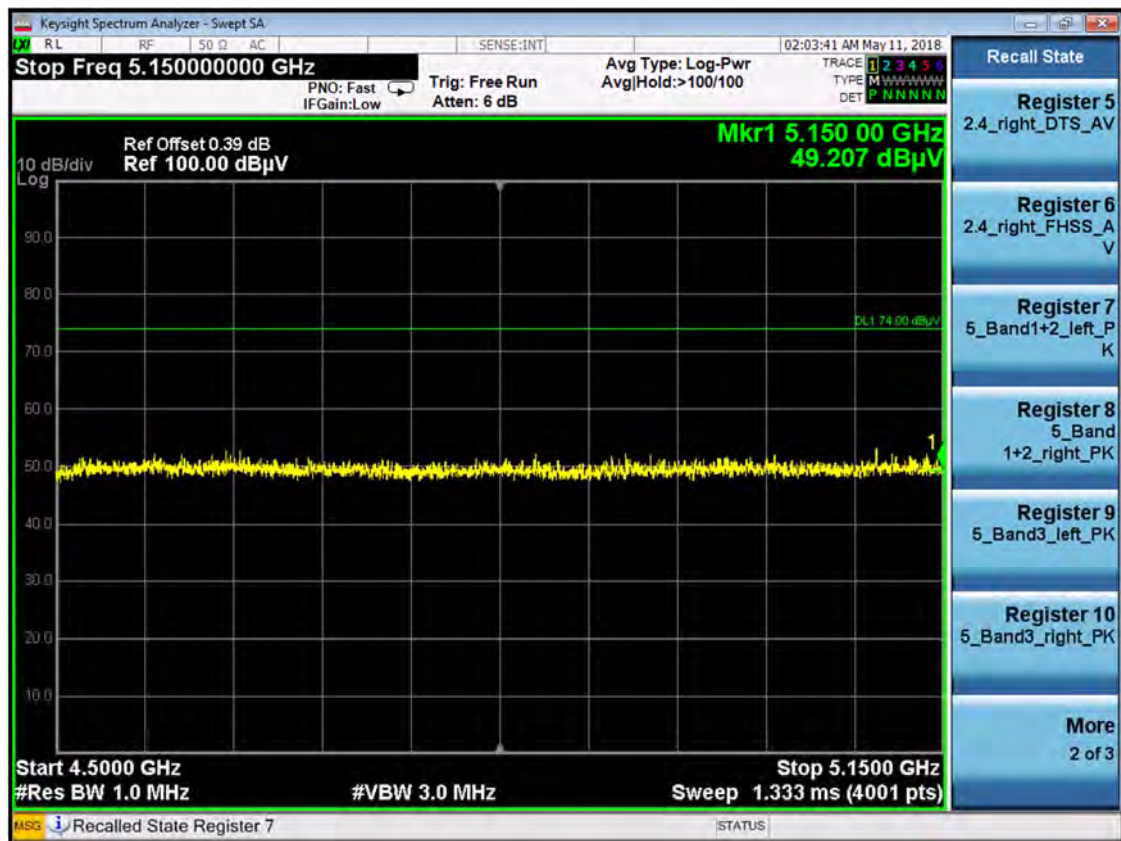
Band I 11n(HT40) CH38



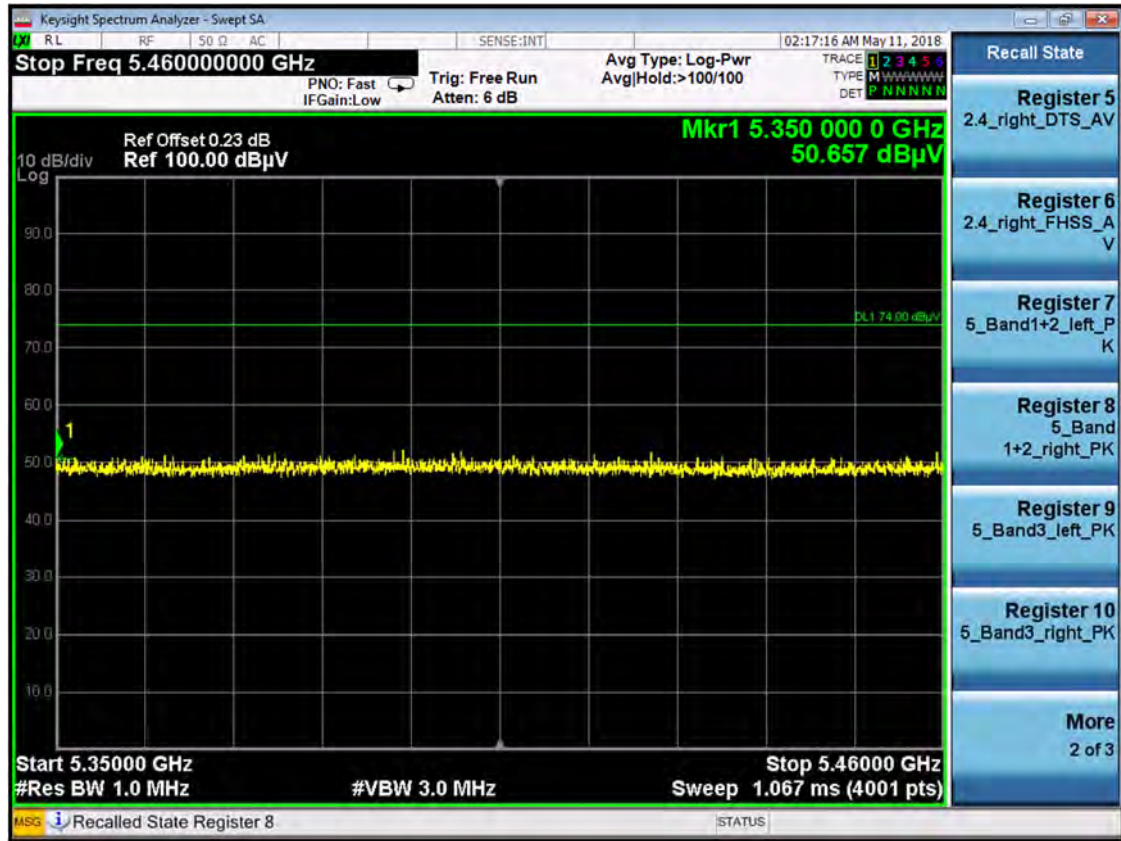
Band I 11n(HT40) CH46



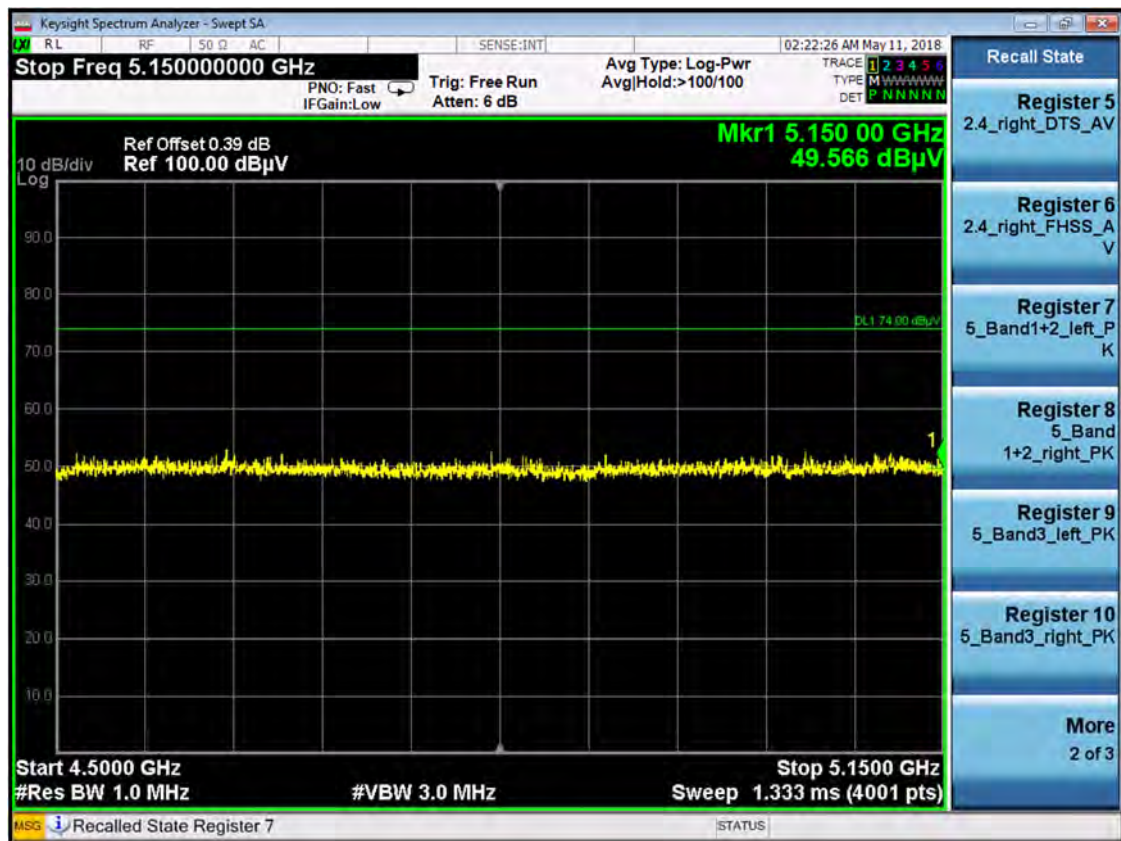
Band I 11ac(HT20) CH36



Band I 11ac(HT20) CH48



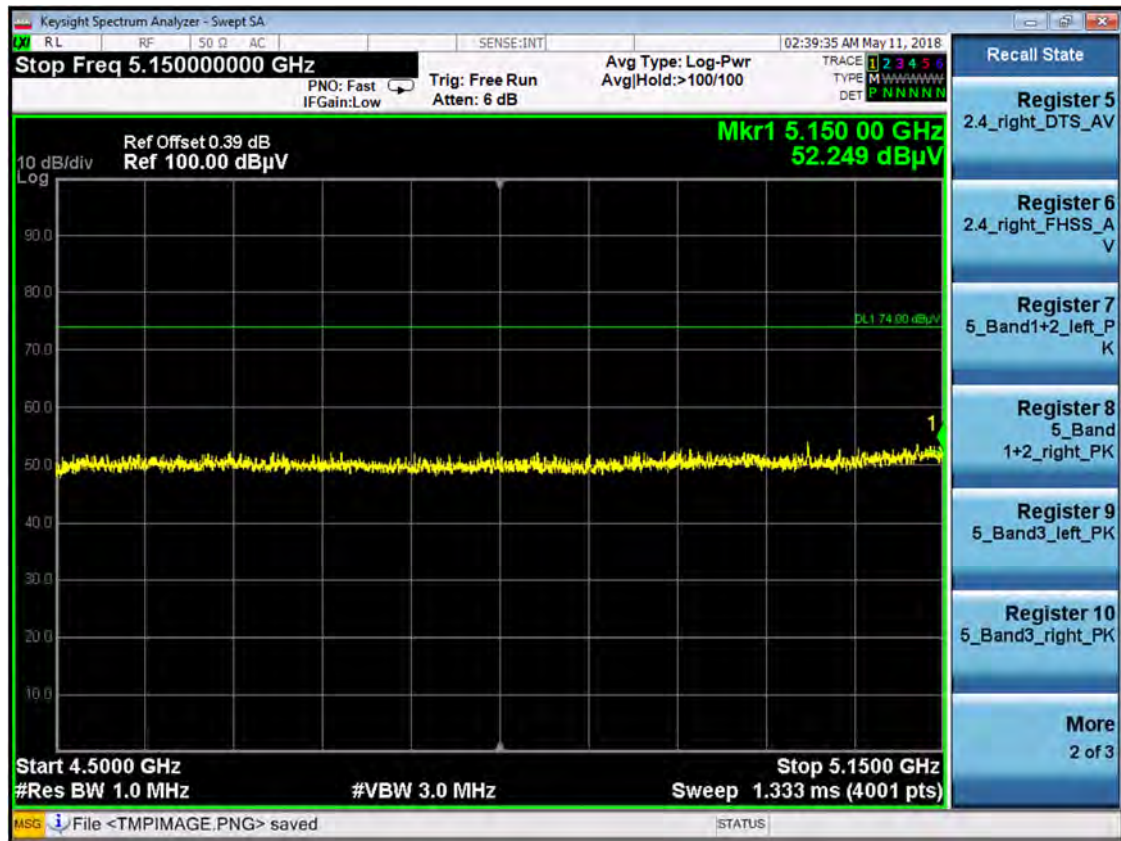
Band I 11ac(HT40) CH38



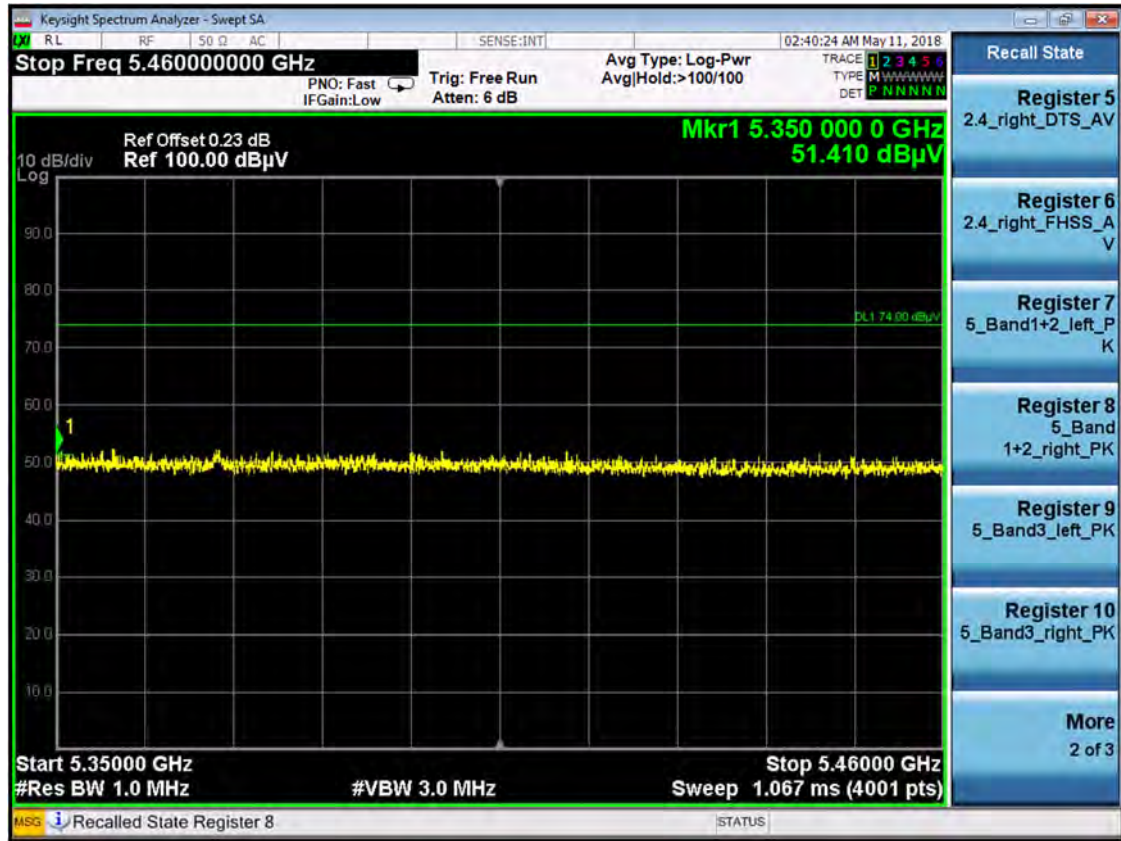
Band I 11ac(HT40) CH46



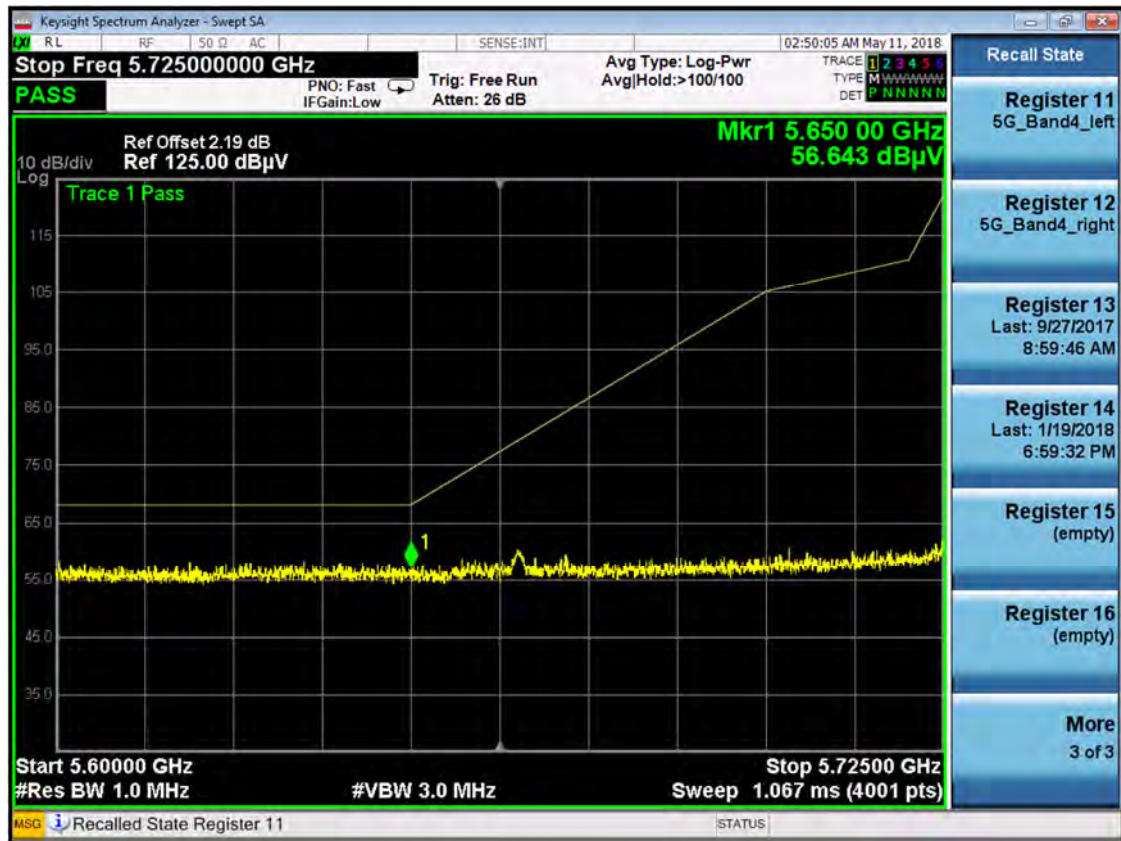
Left Band I 11ac(HT80) CH42



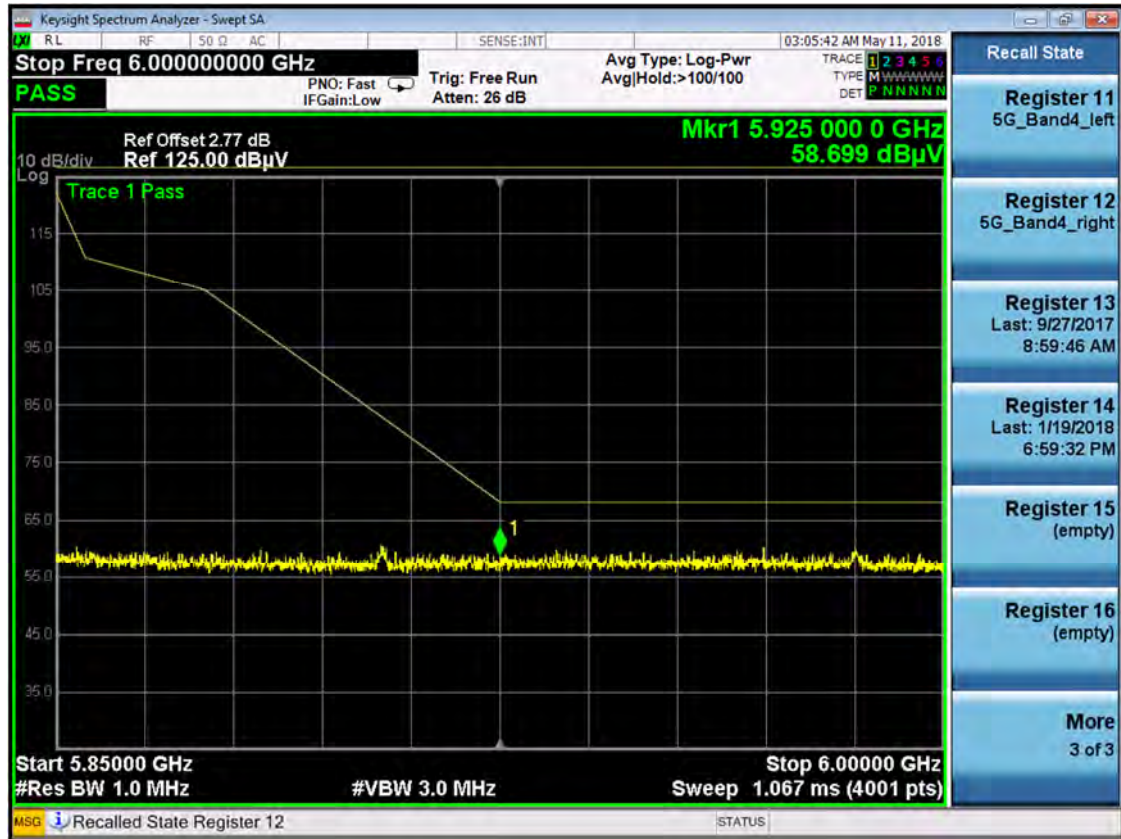
Right Band I 11ac(HT80) CH42



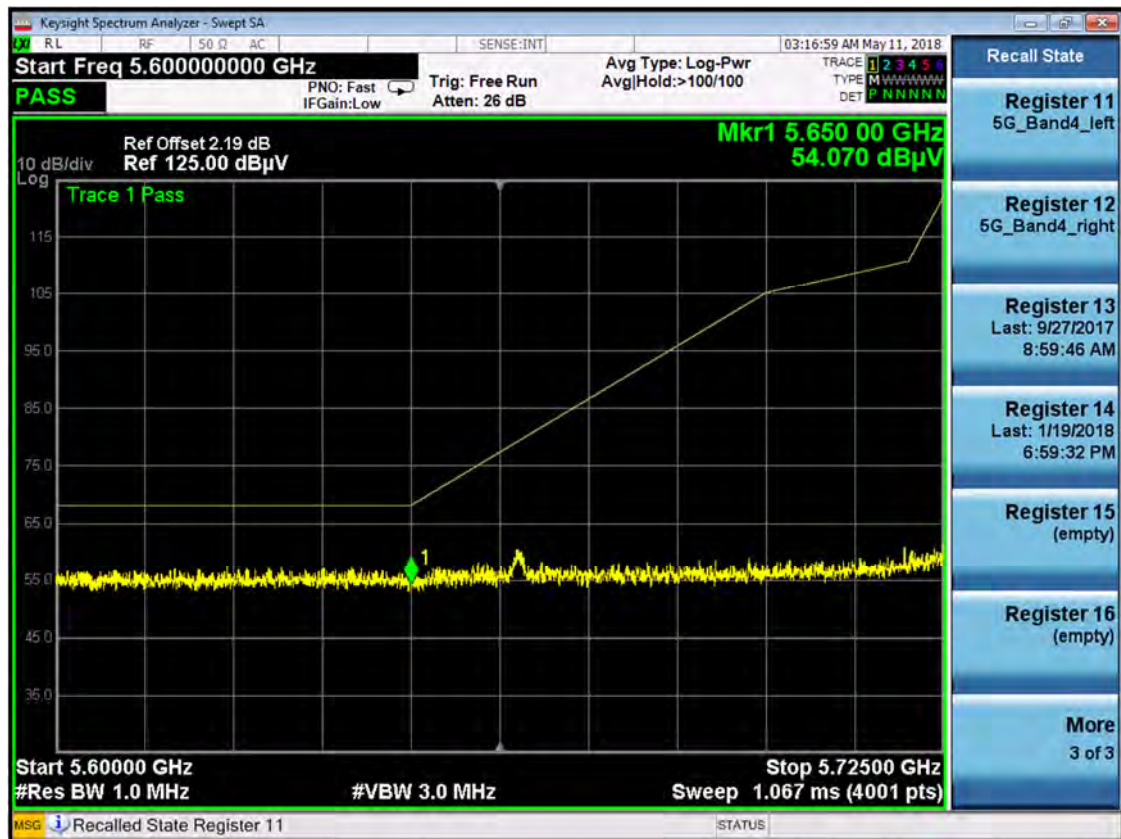
Band IV 11a CH149



Band IV 11a CH165



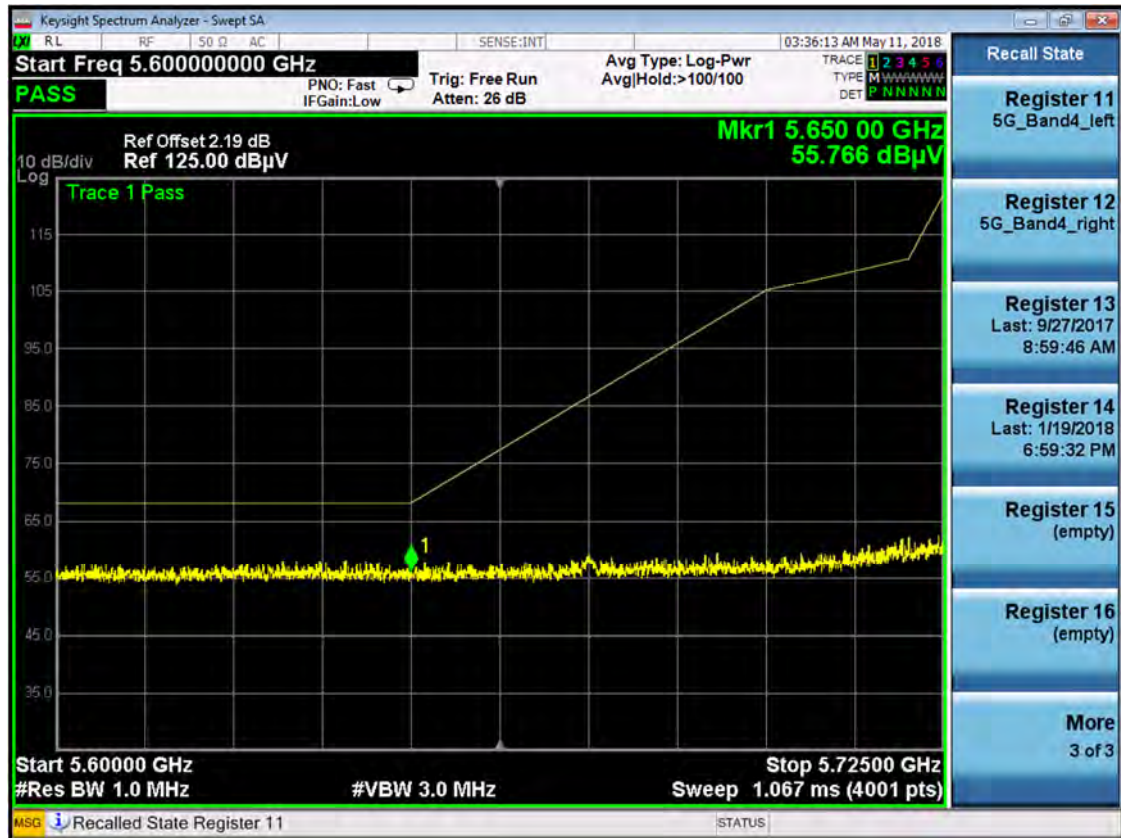
Band IV 11n(HT20) CH149



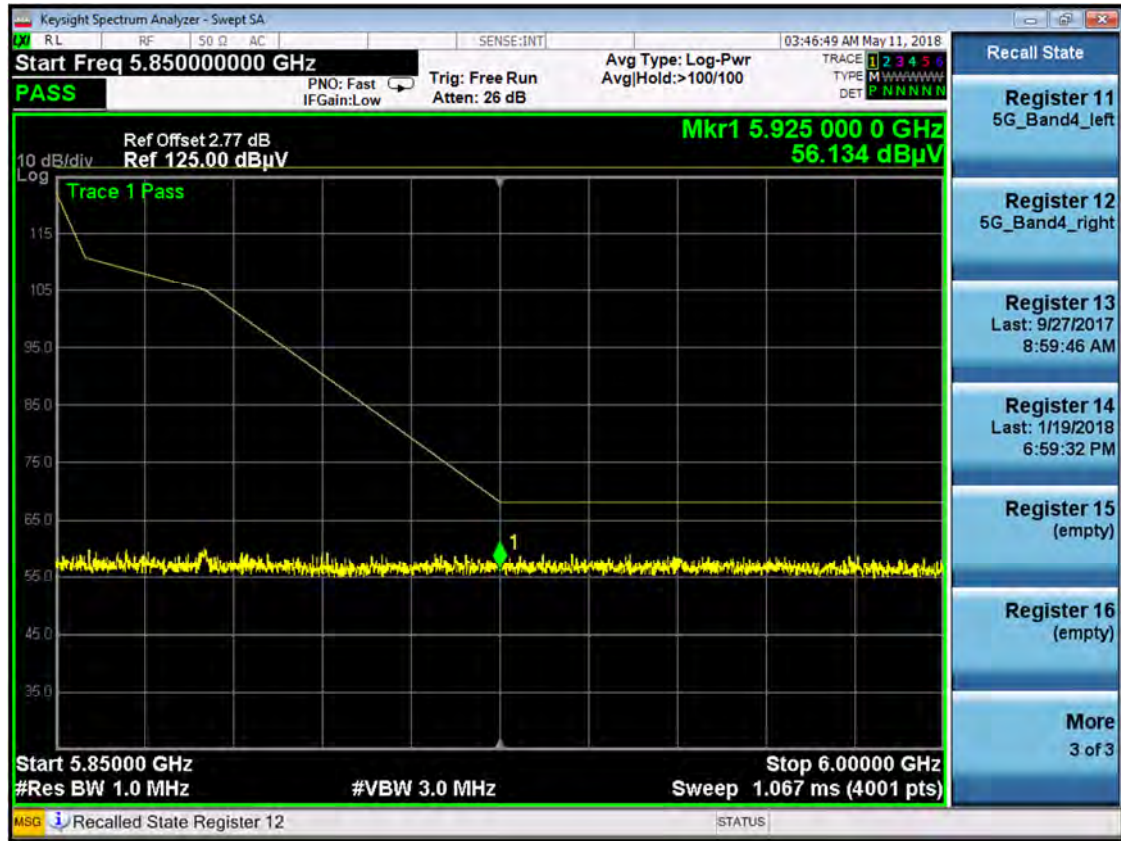
Band IV 11n(HT20) CH165



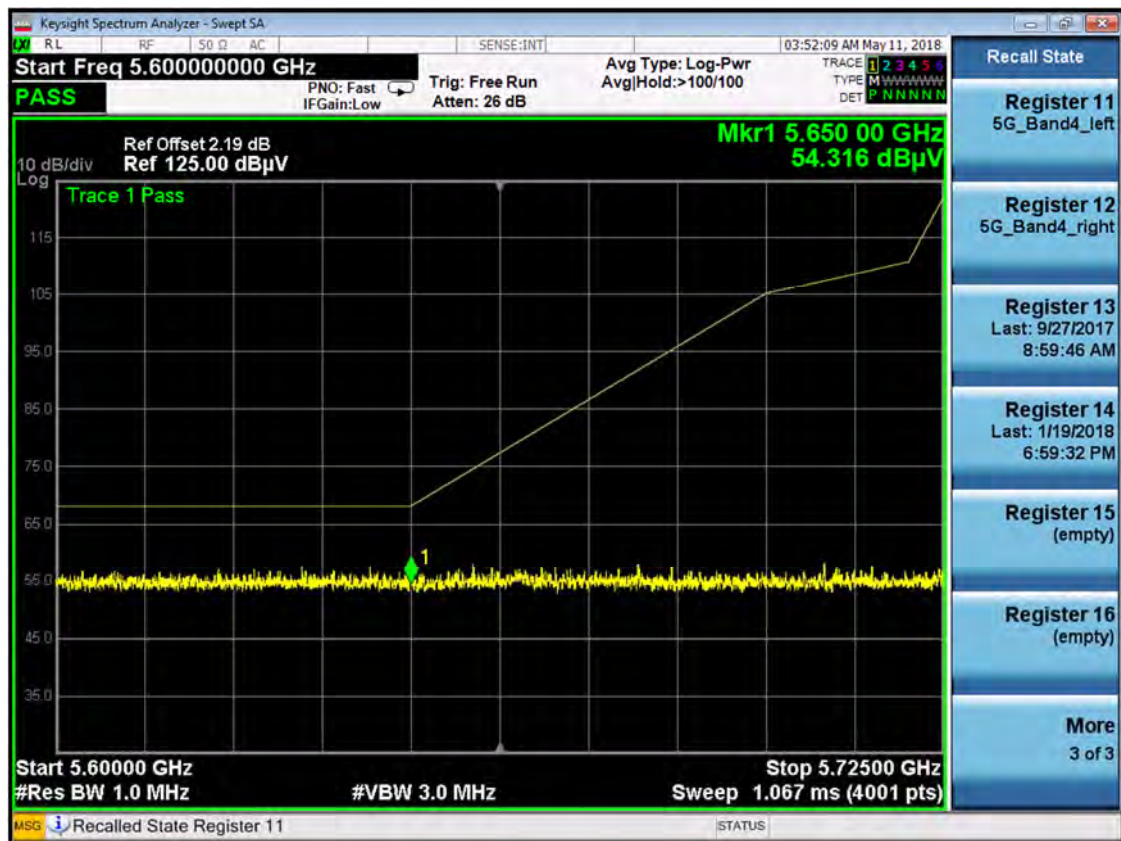
Band IV 11n(HT40) CH151



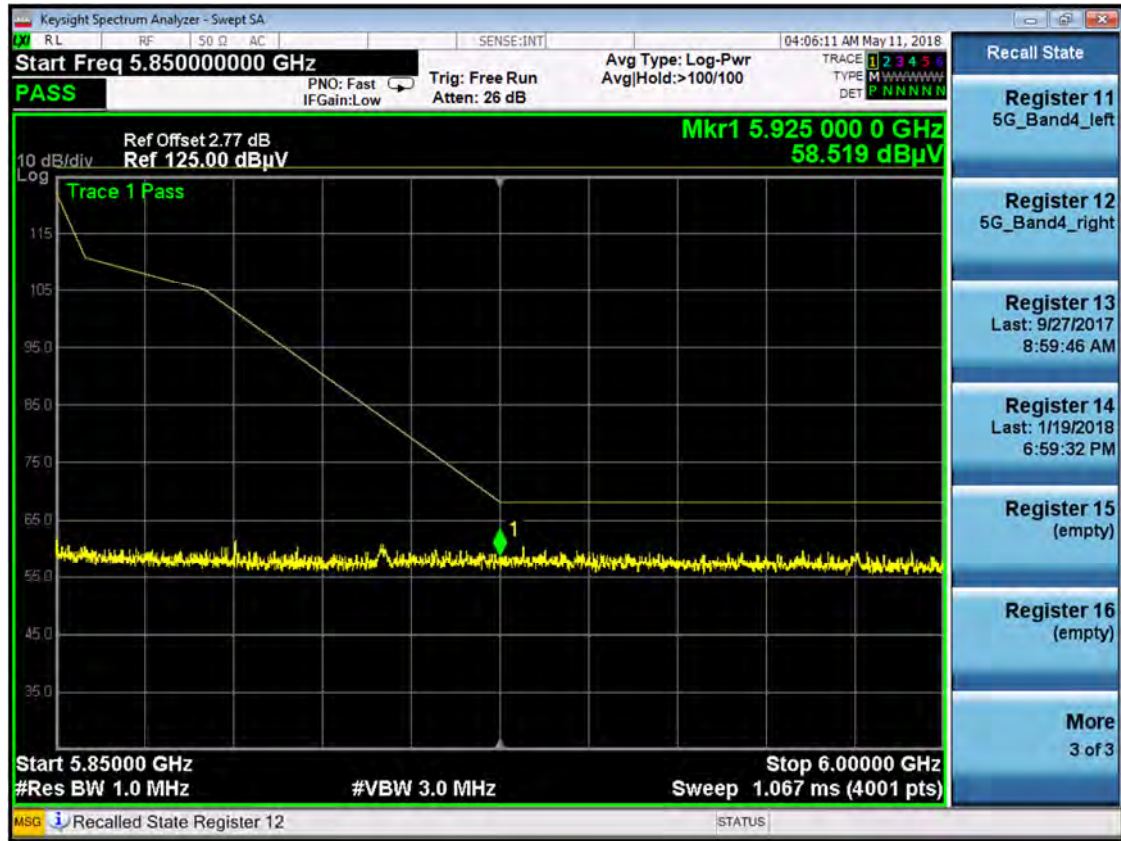
Band IV 11n(HT40) CH159



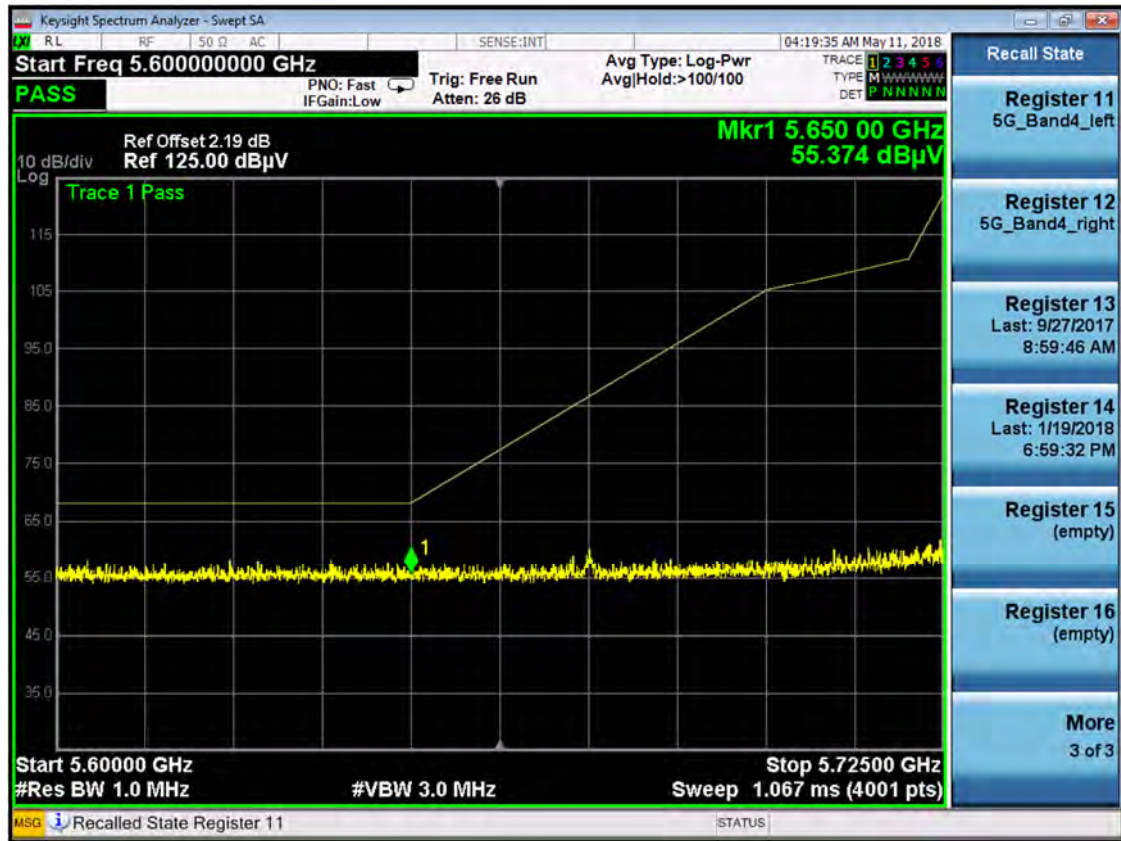
Band IV 11ac(HT20) CH149



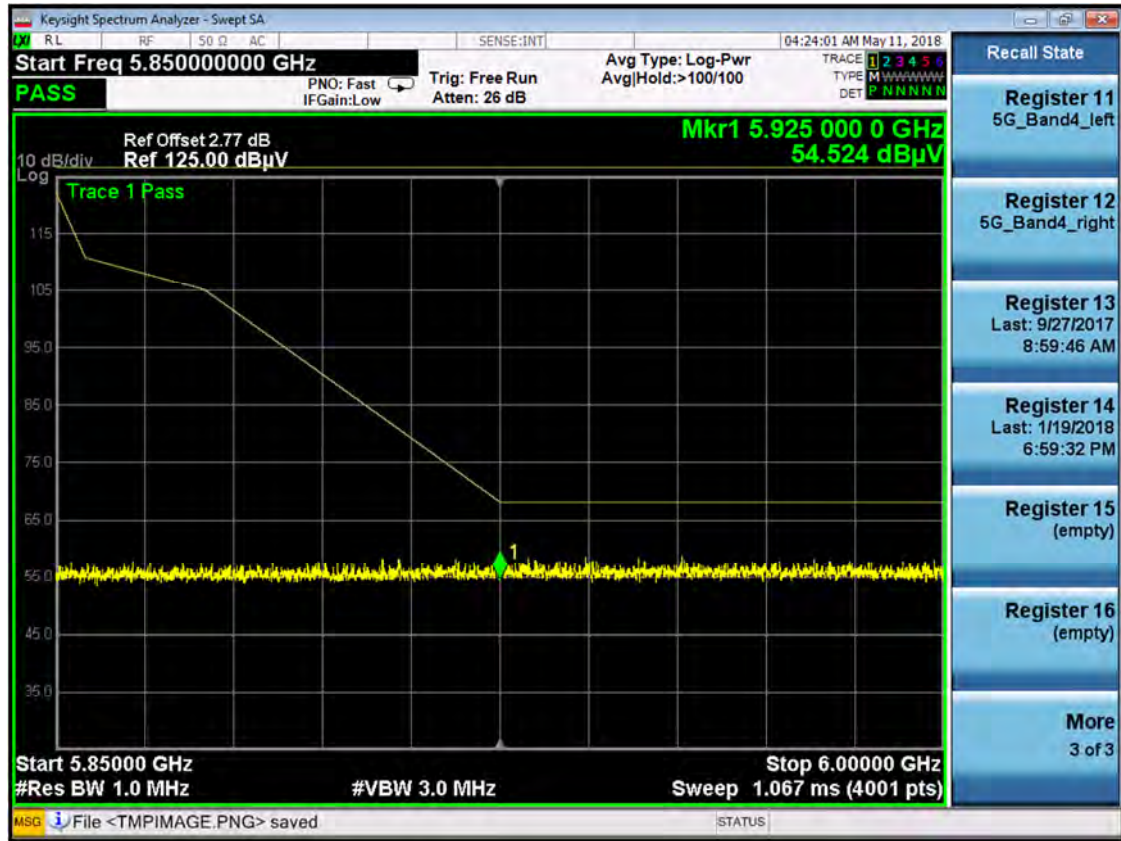
Band IV 11ac(HT20) CH165



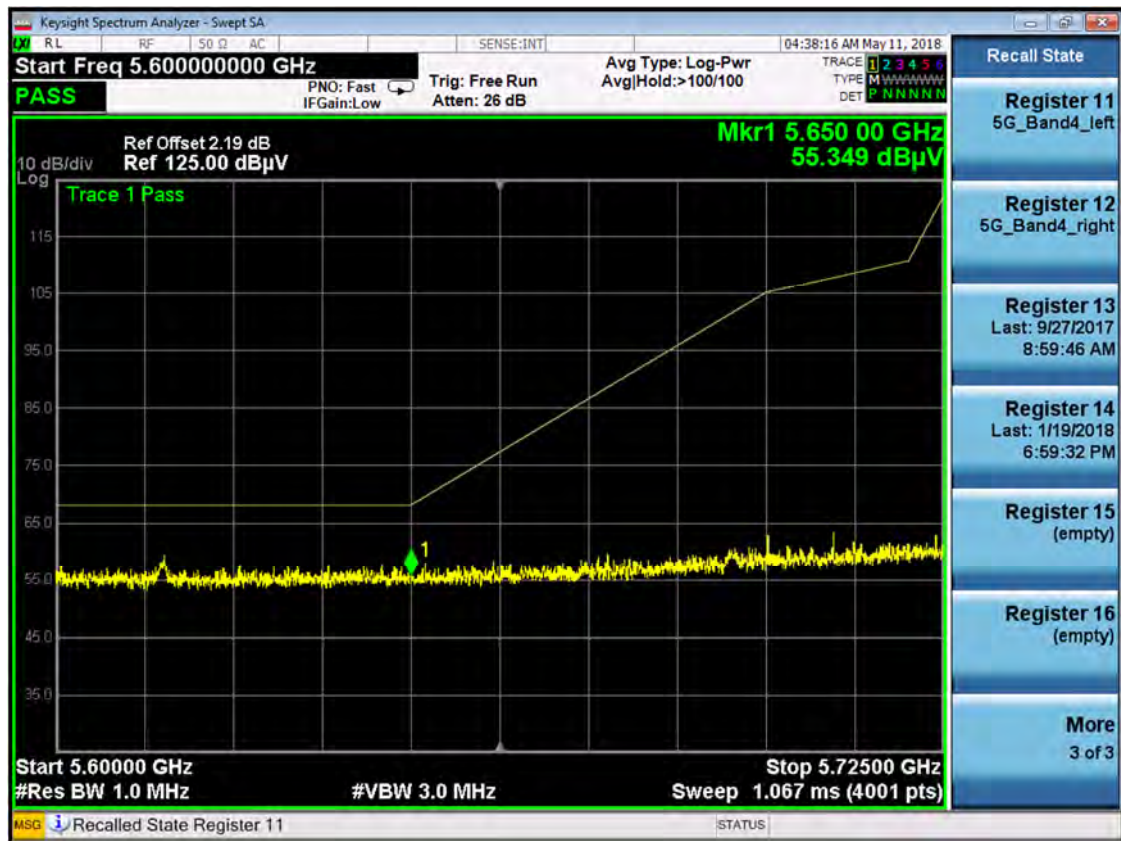
Band IV 11ac(HT40) CH151



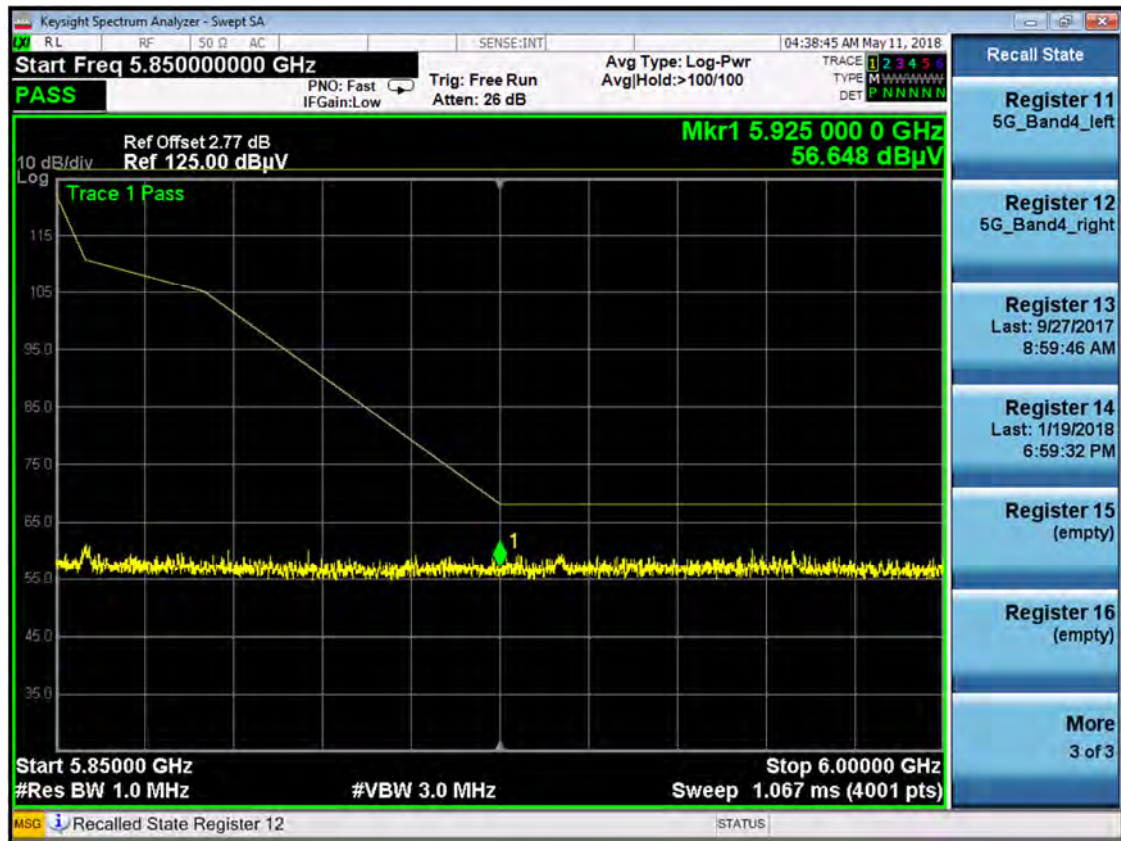
Band IV 11ac(HT40) CH159



Left Band IV 11ac(HT80) CH155



Right Band IV 11ac(HT80) CH155



A.8 Frequency Stability

Measurement Data (the worst channel)

ANT 1

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	110	5180	5179.9998 85	-0.02	5180.040 529	7.82	5180.008 362	1.61	5180.017 661	3.41
	120	5180	5180.0394 17	7.61	5179.958 075	-8.09	5180.044 795	8.65	5180.027 009	5.21
	130	5180	5180.0079 63	1.54	5180.030 851	5.96	5180.014 077	2.72	5180.018 891	3.65

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)
120	-10	5180	5179.9879 1	-2.33	5180.013 545	2.61	5179.984 708	-2.95	5179.951 711	-9.32
	-5	5180	5180.0380 65	7.35	5180.017 414	3.36	5180.005 773	1.11	5180.031 435	6.07
	0	5180	5180.0122 46	2.36	5180.018 735	3.62	5180.043 125	8.33	5180.035 051	6.77
	5	5180	5180.0424 85	8.20	5179.965 182	-6.72	5180.039 537	7.63	5180.002 956	0.57
	10	5180	5179.9555 09	-8.59	5180.003 018	0.58	5179.999 393	-0.12	5179.968 19	-6.14
	15	5180	5180.0058 65	1.13	5180.048 564	9.38	5180.007 218	1.39	5180.029 262	5.65
	20	5180	5180.0467 64	9.03	5179.958 876	-7.94	5180.005 563	1.07	5179.971 203	-5.56
	30	5180	5179.9916 45	-1.61	5180.044 142	8.52	5180.009 686	1.87	5180.031 657	6.11
	40	5180	5180.0297 8	5.75	5180.029 779	5.75	5180.033 658	6.50	5180.002 949	0.57

ANT 2
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	110	5180	5179.997185	-0.54	5180.036192	6.99	5179.96685	-6.40	5180.031039	5.99
	120	5180	5180.029637	5.72	5180.012161	2.35	5180.018931	3.65	5180.0006	0.12
	130	5180	5180.002229	0.43	5180.042745	8.25	5180.02463	4.75	5180.032593	6.29

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)
120	-10	5180	5180.01922	3.71	5179.968387	-6.10	5180.032918	6.35	5179.991254	-1.69
	-5	5180	5180.046794	9.03	5180.046109	8.90	5180.044904	8.67	5180.042677	8.24
	0	5180	5180.047554	9.18	5180.015094	2.91	5180.018738	3.62	5180.034334	6.63
	5	5180	5179.982264	-3.42	5180.007061	1.36	5179.98848	-2.22	5180.027948	5.40
	10	5180	5180.024869	4.80	5179.954085	-8.86	5180.031341	6.05	5179.990601	-1.81
	15	5180	5180.011232	2.17	5180.013393	2.59	5180.015204	2.94	5180.048201	9.31
	20	5180	5180.048268	9.32	5180.036858	7.12	5180.022423	4.33	5180.030476	5.88
	30	5180	5180.00222	0.43	5180.031767	6.13	5180.023132	4.47	5180.047814	9.23
	40	5180	5180.03215	6.21	5180.026914	5.20	5180.005628	1.09	5179.958069	-8.09

ANNEX B TEST SETUP PHOTOS

Please refer the document "BL-SZ1840394-AR.PDF".

ANNEX C EUT EXTERNAL PHOTOS

Please refer the document "BL- SZ1840394-AW.PDF".

ANNEX D EUT INTERNAL PHOTOS

Please refer the document "BL- SZ1840394-AI.PDF".

--END OF REPORT--