



FCC PART 15C TEST REPORT No.I23Z60833-IOT05

for

Wingtech Group (Hong Kong) Limited

REVVLTAB5G

TMRV5GTB

With

FCC ID: 2APXW-TMRV5GTB

Hardware Version: V1.1

Software Version: REVVLTAB5G_0.01.01

Issued Date: 2023-06-15

Note:

The test results in this test report relate only to the devices specified in this report. This report shall not be reproduced except in full without the written approval of CTTL.

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REPORT HISTORY

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1. TEST LABORATORY

1.1. Introduction & Accreditation

Telecommunication Technology Labs, CAICT is an ISO/IEC 17025:2017 accredited test laboratory under NATIONAL VOLUNTARY LABORATORY ACCREDITATION PROGRAM (NVLAP) with lab code 600118-0, and is also an FCC accredited test laboratory (CN5017), and ISED accredited test laboratory (ISED#: 24849). The detail accreditation scope can be found on NVLAP website.

1.2. Testing Location

Conducted testing Location: CTTL(huayuan North Road)

Address: No. 52, Huayuan North Road, Haidian District, Beijing,
P. R. China100191

Radiated testing Location: CTTL(huayuan North Road)

Address: No. 52, Huayuan North Road, Haidian District, Beijing,
100191, P. R. China

1.3. TestingEnvironment

Normal Temperature: 15-35°C

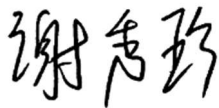
Relative Humidity: 20-75%

1.4. Project date

Testing Start Date: 2023-05-04

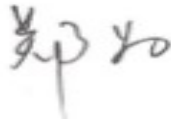
Testing End Date: 2023-06-14

1.5. Signature



Xie Xiuzhen

(Prepared this test report)



Zheng Wei

(Reviewed this test report)



Pang Shuai

(Approved this test report)



2. CLIENT INFORMATION

2.1. Applicant Information

Company Name: Wingtech Group (Hong Kong) Limited
Address: Flat/RM 1903 19/F, Podium Plaza, 5 Hanoi Road, Tsim Sha Tsui, KL,
HK
City: Hong Kong
Postal Code: /
Country: China
Telephone: +86-21-53529900
Fax: /

2.2. Manufacturer Information

Company Name: Wingtech Group (Hong Kong) Limited
Address: Flat/RM 1903 19/F, Podium Plaza, 5 Hanoi Road, Tsim Sha Tsui, KL,
HK
City: Hong Kong
Postal Code: /
Country: China
Telephone: +86-21-53529900
Fax: /

3. EQUIPMENT UNDER TEST (EUT) AND ANCILLARY EQUIPMENT(AE)

3.1. About EUT

Description	REVVLTAB5G
Model name	TMRV5GTB
FCC ID	2APXW-TMRV5GTB
WLAN Frequency Band	ISM Band: 5725MHz~5850MHz
Type of modulation	OFDM
Voltage	3.85V

3.2. Internal Identification of EUT used during the test

EUT ID*	IMEI	HW Version	SW Version
UT15a	864182060001568/	V1.1	REVVLTAB5G_0.01.01
	864182060001576		
UT07a	864182060000404	V1.1	REVVLTAB5G_0.01.01
	864182060000412		

*EUT ID: is used to identify the test sample in the lab internally.
 UT07a is used for Conduction test, UT15a is used for Radiation test.

3.3. Internal Identification of AE used during the test

AE ID*	Description	Remark
AE1	Battery	/
AE2	Charger	Provided by client for testing
AE3	USB Cable	/

AE1

Model	SGA35
Manufacturer	SCUD
Capacity	Typ7040
Nominal Voltage	

AE2

Model	/
Manufacturer	/
Length of cable	/

AE3

Model	711300002001
Manufacturer	washin
Length of cable	/

*AE ID: is used to identify the test sample in the lab internally.

3.4. General Description

Equipment Under Test (EUT) is a model of REVVLTA5G with integrated antenna. It consists of normal options: Battery and Charger.

Manual and specifications of the EUT were provided to fulfil the test.

Samples undergoing test were selected by the Client.

4. REFERENCE DOCUMENTS

4.1. Documents supplied by applicant

EUT feature information is supplied by the applicant or manufacturer, which is the basis of testing.

4.2. Reference Documents for testing

The following documents listed in this section are referred for testing.

FCC Part15	FCC CFR 47, Part 15, Subpart C and E: 15.205 Restricted bands of operation; 15.209 Radiated emission limits, general requirements; 15.407 General technical requirements	2021
ANSI C63.10	Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz	2013
UNII: KDB 789033 D02	General U-NII Test Procedures New Rules v02r01	2017-12

5. LABORATORY ENVIRONMENT

Conducted RF performance testing is performed in shielding room.

EMC performance testing is performed in Semi-anechoic chamber.

6. SUMMARY OF TEST RESULTS

6.1. Summary of Test Results

SUMMARY OF MEASUREMENT RESULTS	Sub-clause of Part15C	Sub-clause of IC	Verdict
Maximum Peak Output Power	15.407 (a)	/	P
Peak Power Spectral Density	15.407 (a)	/	P
Occupied 6dB Bandwidth	15.407 (e)	/	P
Band Edges Compliance - Conducted& Radiated	15.407 (b)	/	P
Transmitter Spurious Emission - Conducted	15.407	/	P
Transmitter Spurious Emission - Radiated	15.407, 15.205, 15.209	/	P
AC Powerline Conducted Emission	15.107, 15.207	/	P

Please refer to **ANNEX A** for detail.

Terms used in Verdict column

P	Pass, The EUT complies with the essential requirements in the standard.
NM	Not measured, The test was not measured by CTTL
NA	Not Applicable, The test was not applicable
F	Fail, The EUT does not comply with the essential requirements in the standard

6.2. Statements

CTTL has evaluated the test cases requested by the client/matrix manufacturer as listed in section 6.1 of this report for the EUT specified in section 3 according to the standards or reference documents listed in section 4.1.

This report only deals with the WLAN function among the features described in section 3.

6.3. Test Conditions

For this report, all the test cases are tested under normal temperature and normal voltage, and also under norm humidity, the specific condition is shown as follows:

Temperature	26°C
Voltage	3.85V
Humidity	44%

7. TEST EQUIPMENTS UTILIZED

Conducted test system

No.	Equipment	Model	Serial Number	Manufacturer	Calibration Period	Calibration Due date
1	Vector Signal Analyzer	FSQ40	200089	Rohde & Schwarz	1 year	2024-06-15
2	Test Receiver	ESCI	100344	R&S	1 year	2024-02-21
3	LISN	ENV216	101200	R&S	1 year	2023-06-29
4	Shielding Room	S81	/	ETS-Lindgren	/	/

Radiated emission test system

No.	Equipment	Model	Serial Number	Manufacturer	Calibration Period	Calibration Due date
1	Test Receiver	ESW44	103144	R&S	1 year	2023-10-25
2	EMI Antenna	VULB 9163	01223	SCHWARZBECK	1 year	2023-07-25
3	EMI Antenna	3115	00167250	ETS-Lindgren	1 year	2023-06-20
4	EMI Antenna	3116	2661	ETS-Lindgren	1 year	2024-01-30

8. Measurement Uncertainty

8.1. Transmitter Output Power

Measurement Uncertainty: 0.387dB,k=1.96

8.2. Peak Power Spectral Density

Measurement Uncertainty: 0.705dB,k=1.96

8.3. Occupied 6dB Bandwidth

Measurement Uncertainty: 60.80Hz,k=1.96

8.4. Band Edges Compliance

Measurement Uncertainty : 0.62dB,k=1.96

8.5. Spurious Emissions

Conducted (k=1.96)

Frequency Range	Uncertainty(dB)
$30\text{MHz} \leq f \leq 2\text{GHz}$	1.22
$2\text{GHz} \leq f \leq 3.6\text{GHz}$	1.22
$3.6\text{GHz} \leq f \leq 8\text{GHz}$	1.22
$8\text{GHz} \leq f \leq 12.75\text{GHz}$	1.51
$12.75\text{GHz} \leq f \leq 26\text{GHz}$	1.51
$26\text{GHz} \leq f \leq 40\text{GHz}$	1.59

Radiated (k=2)

Frequency Range	Uncertainty(dB)
9kHz-30MHz	/
$30\text{MHz} \leq f \leq 1\text{GHz}$	5.15
$1\text{GHz} \leq f \leq 18\text{GHz}$	5.54
$18\text{GHz} \leq f \leq 40\text{GHz}$	5.26

8.6. AC Power-line Conducted Emission

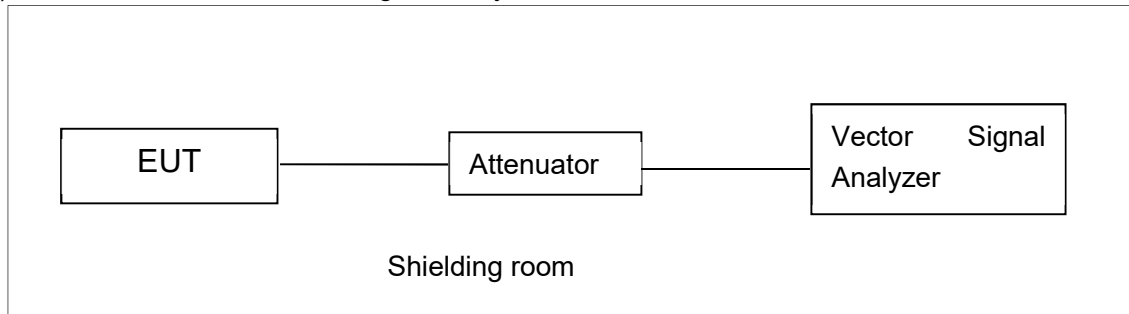
Measurement Uncertainty : 3.08dB,k=2

ANNEX A: MEASUREMENT RESULTS

A.1. Measurement Method

A.1.1. Conducted Measurements

- 1). Connect the EUT to the test system correctly.
- 2). Set the EUT to the required work mode.
- 3). Set the EUT to the required channel.
- 4). Set the spectrum analyzer to start measurement.
- 5). Record the values. Vector Signal Analyzer

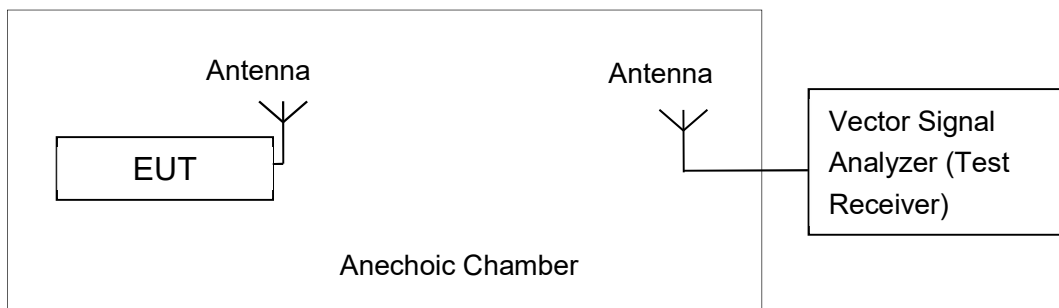


A.1.2. Radiated Emission Measurements

In the case of radiated emission, the used settings are as follows,

Sweep frequency from 30 MHz to 1GHz, RBW = 100 kHz, VBW = 300 kHz;

Sweep frequency from 1 GHz to 26GHz, RBW = 1MHz, VBW = 10Hz;



The measurement is made according to ANSI C63.10.

The radiated emission test is performed in semi-anechoic chamber. The distance from the EUT to the reference point of measurement antenna is 3m. The test is carried out on both vertical and horizontal polarization and only maximization result of both polarizations is kept. During the test, the turntable is rotated 360° and the measurement antenna is moved from 1m to 4m to get the maximization result.

A.2. Maximum Peak Output Power

Measurement Limit and Method:

Standard	Limit (dBm)
FCC CRF Part 15.407(a)	< 30

A.2.1 Antenna Gain

Antenna gain is 0.7dBi and the value is supplied by the applicant or manufacturer.

A.2.2. Maximum Average Output Power-Conducted

Measurement Results:

802.11a mode

Mode	Data Rate (Mbps)	Test Result (dBm)		
		5745MHz (Ch149)	5785MHz (Ch157)	5825MHz (Ch165)
802.11a	6	18.32	18.33	18.28

The data rate 6Mbps is selected as worst condition, and the following cases are performed with this condition.

802.11n-HT20 mode

Mode	Data Rate (Index)	Test Result (dBm)		
		5745MHz (Ch149)	5785MHz (Ch157)	5825MHz (Ch165)
802.11n (20MHz)	MCS0	18.12	18.26	18.17

The data rate MCS0 is selected as worst condition, and the following cases are performed with this condition.

802.11ac-HT20 mode

Mode	Data Rate (Index)	Test Result (dBm)		
		5745MHz (Ch149)	5785MHz (Ch157)	5825MHz (Ch165)
802.11ac (20MHz)	MCS0	16.69	16.72	16.99

The data rate MCS0 is selected as worst condition, and the following cases are performed with this condition.

802.11n-HT40 mode

Mode	Data Rate (Index)	Test Result (dBm)	
		5755MHz (Ch151)	5795MHz (Ch159)
802.11n (40MHz)	MCS0	17.10	17.32

The data rate MCS0 is selected as worst condition, and the following cases are performed with this condition.

802.11ac-HT40 mode

Mode	Data Rate (Index)	Test Result (dBm)	
		5755MHz (Ch151)	5795MHz (Ch159)
802.11ac (40MHz)	MCS0	17.43	17.33

The data rate MCS0 is selected as worst condition, and the following cases are performed with this condition.

802.11ac-HT80 mode

Mode	Data Rate (Index)	Test Result (dBm)
		5775MHz (Ch155)
802.11ac (80MHz)	MCS0	16.12

The data rate MCS0 is selected as worst condition, and the following cases are performed with this condition.

The duty cycle of all mode are 100%

Conclusion: PASS

A.3. Peak Power Spectral Density

Measurement Limit:

Standard	Limit
FCC 47 CFR Part 15.407(a)	< 30 dBm/500 kHz

The measurement is made according to ANSI C63.10 and KDB789033 D02

Measurement Uncertainty:

Measurement Uncertainty	0.75dB
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Measurement Results:

Mode	Channel	Power Spectral Density (dBm/500kHz)	Conclusion
802.11a	149	3.49	P
	157	3.41	P
	165	3.92	P
802.11n HT20	149	3.38	P
	157	3.12	P
	165	3.57	P
802.11ac HT40	151	-0.73	P
	159	-0.95	P
802.11ac HT80	155	-5.16	P

Conclusion: PASS

A.4. Occupied 6dB Bandwidth

Measurement Limit:

Standard	Limit (kHz)
FCC 47 CFR Part 15.407 (e)	≥ 500

The measurement is made according to KDB789033 D02 .

Measurement Uncertainty:

Measurement Uncertainty	60.80Hz
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Measurement Result:

Mode	Channel	Occupied 6dB Bandwidth (MHz)		conclusion
802.11a	149	Fig.1	16.35	P
	157	Fig.2	16.35	P
	165	Fig.3	16.35	P
802.11n HT20	149	Fig.4	17.55	P
	157	Fig.5	17.55	P
	165	Fig.6	17.60	P
802.11ac HT40	151	Fig.7	36.00	P
	159	Fig.8	35.92	P
802.11ac HT80	155	Fig.9	76.00	P

Conclusion: PASS

Test graphs as below:

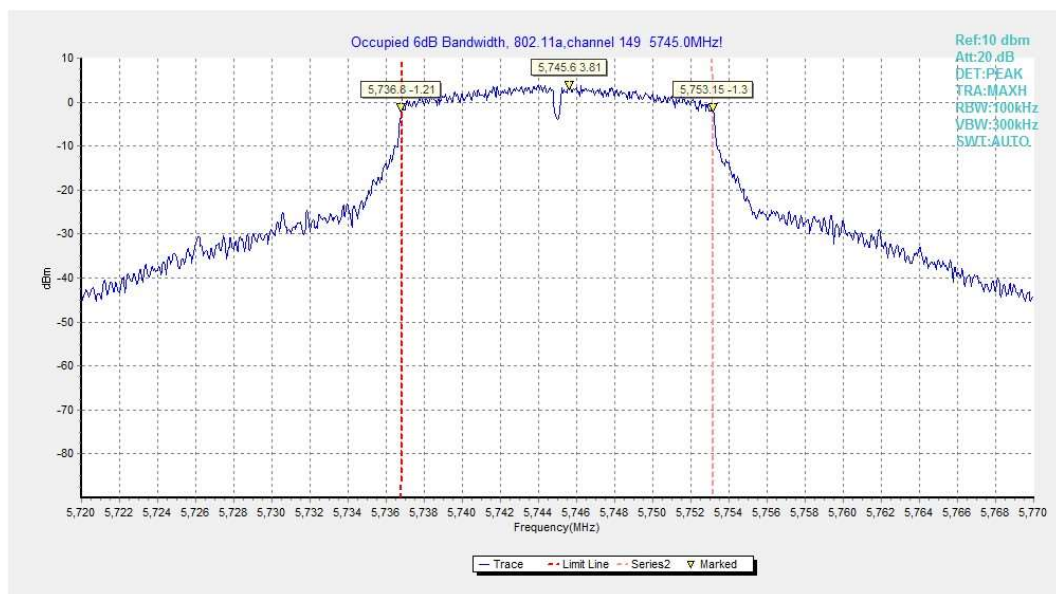


Fig. 1 Occupied 6dB Bandwidth (802.11a, Ch 149)

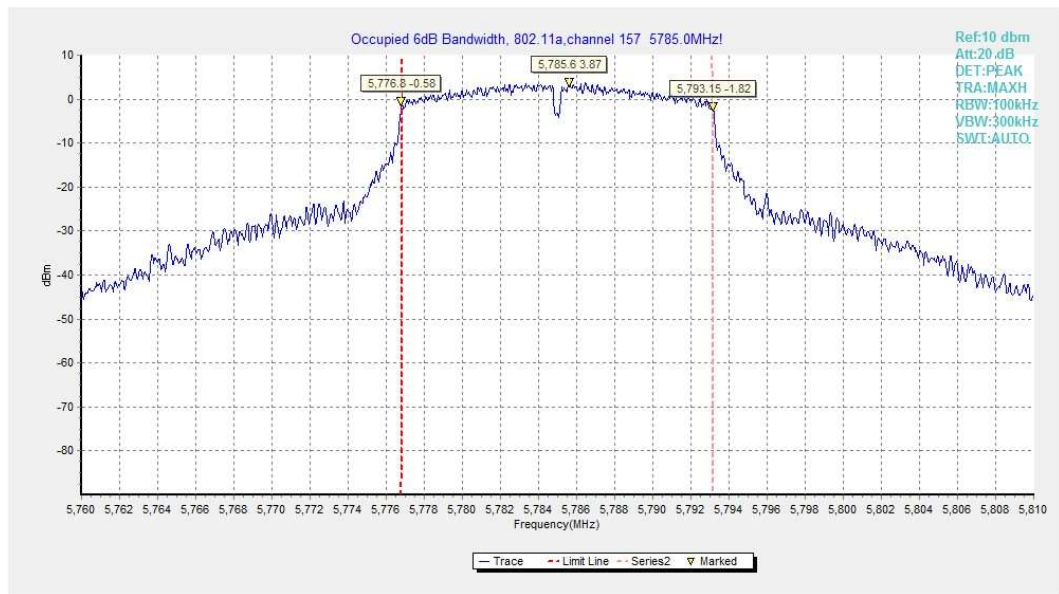


Fig. 2 Occupied 6dB Bandwidth (802.11a, Ch 157)

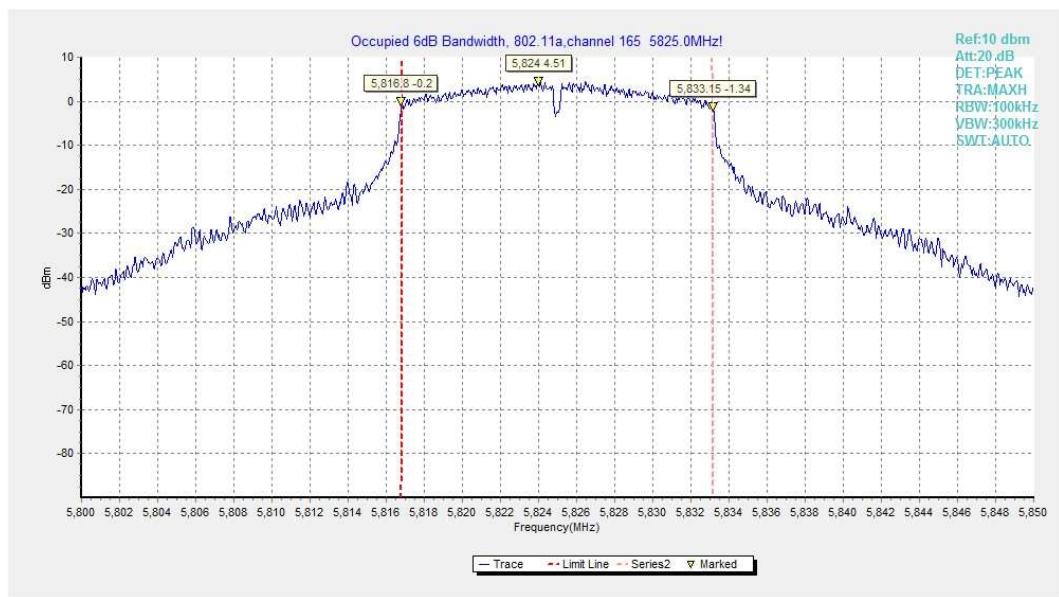


Fig. 3 Occupied 6dB Bandwidth (802.11a, Ch 165)

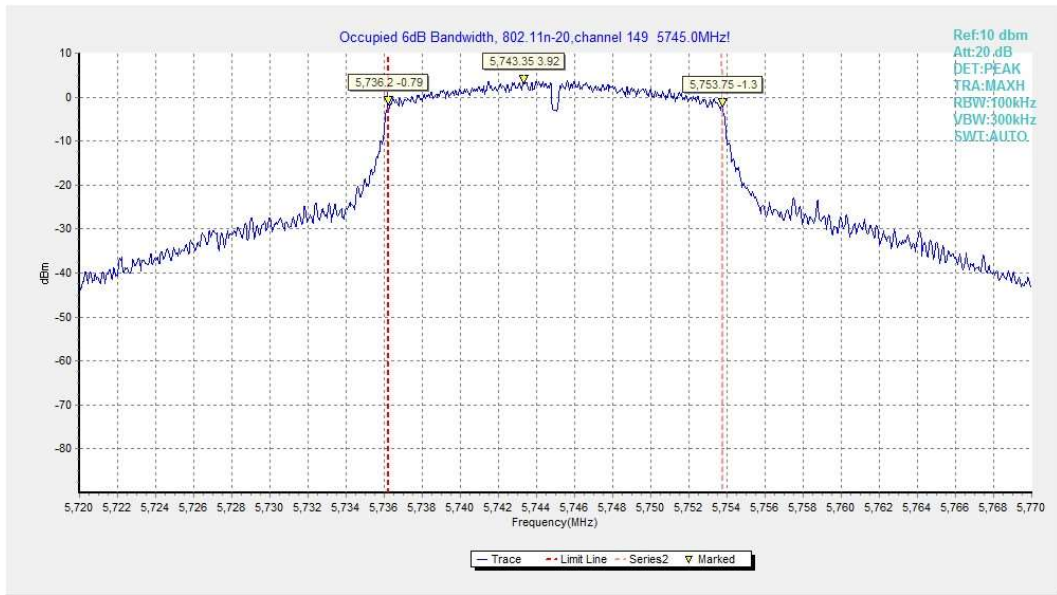


Fig. 4 Occupied 6dB Bandwidth (802.11n-HT20, Ch 149)

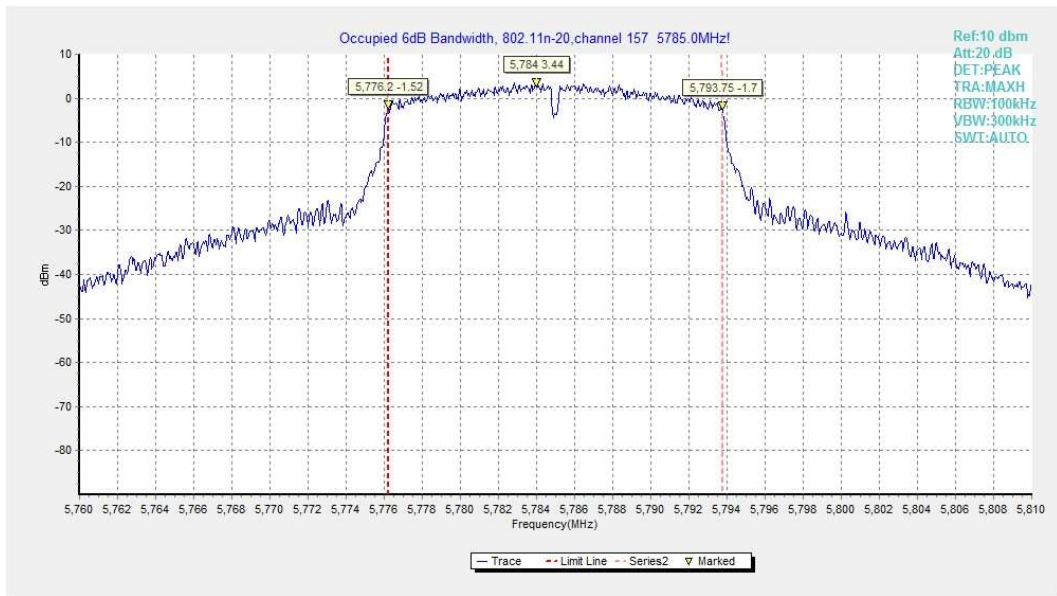


Fig. 5 Occupied 6dB Bandwidth (802.11n-HT20, Ch 157)

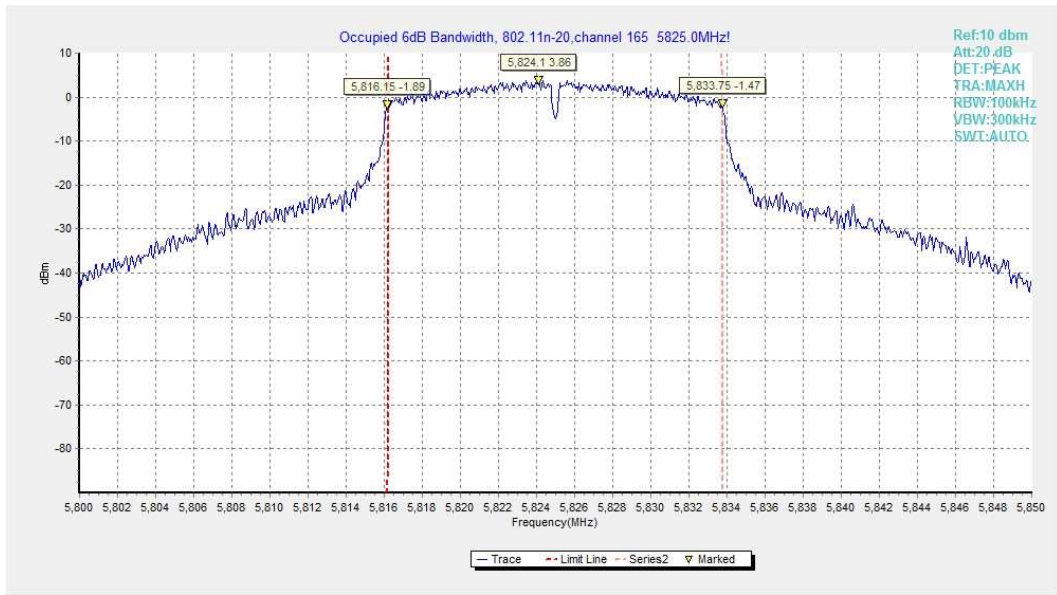


Fig. 6 Occupied 6dB Bandwidth (802.11n-HT20, Ch 165)

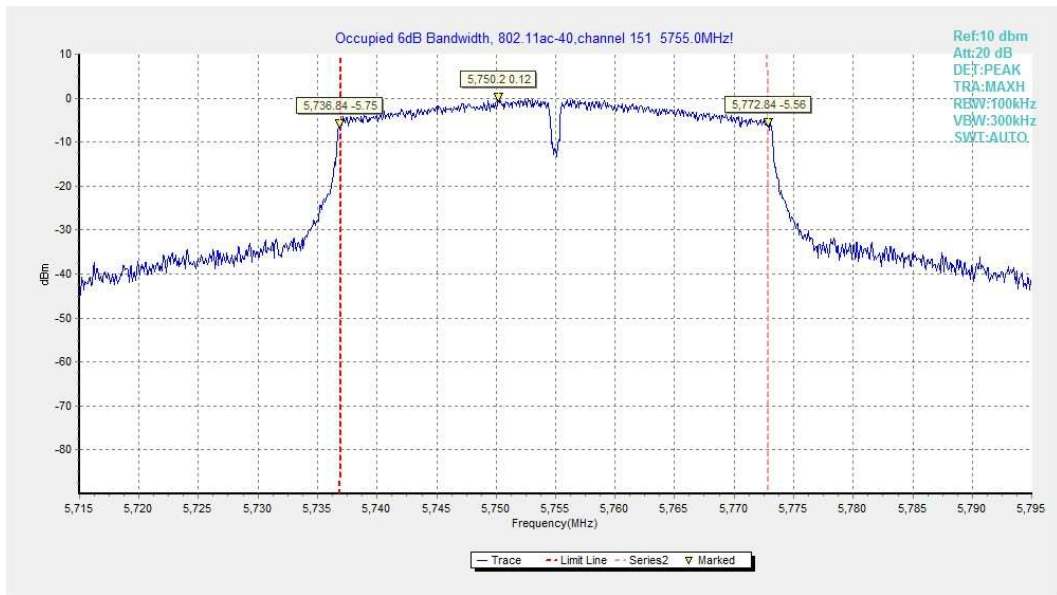


Fig. 7 Occupied 6dB Bandwidth (802.11ac-HT40, Ch 151)



Fig. 8 Occupied 6dB Bandwidth (802.11ac-HT40, Ch 159)

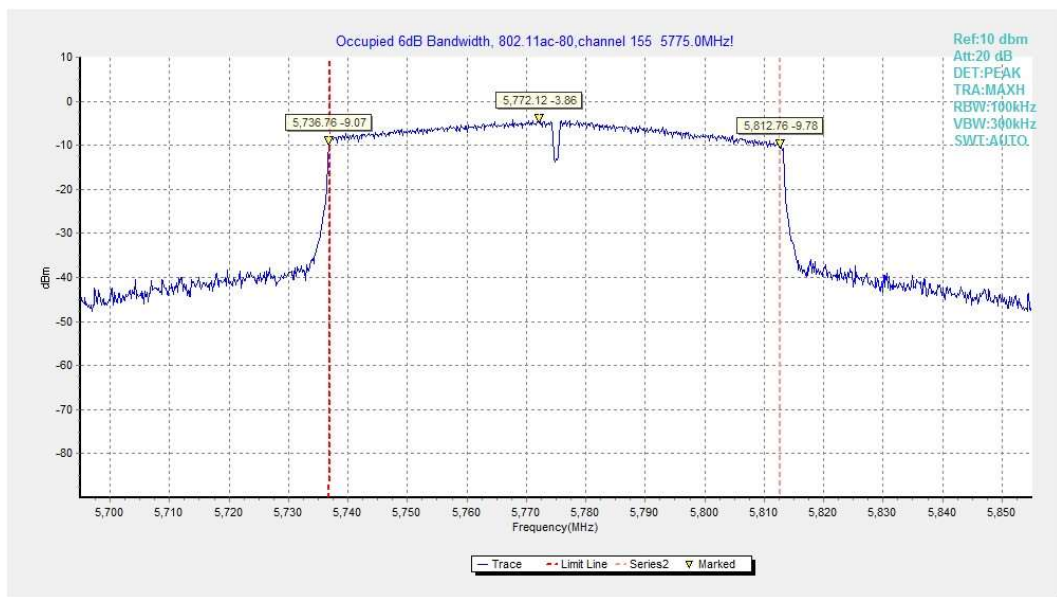


Fig. 9 Occupied 6dB Bandwidth (802.11ac-HT80, Ch 155)

A.5. Transmitter Spurious Emission

Measurement Limit:

Standard	Frequency (MHz)	Limit (dBm/MHz)
FCC 47 CFR Part 15.407	5725MHz~5850MHz	< -27

The measurement is made according to ANSI C63.10 .

In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a) (see § 15.205(c)).

Frequency of emission (MHz)	Field strength(uV/m)	Field strength(dBuV/m)
30-88	100	40
88-216	150	43.5
216-960	200	46
Above 960	500	54

Measurement Uncertainty:

Frequency Range	Uncertainty(dB)
30MHz ≤ f ≤ 2GHz	0.63
2GHz ≤ f ≤ 3.6GHz	0.82
3.6GHz ≤ f ≤ 8GHz	1.55
8GHz ≤ f ≤ 20GHz	1.86
20GHz ≤ f ≤ 22GHz	1.90
22GHz ≤ f ≤ 26GHz	2.20

A.5.1 Transmitter Spurious Emission - Radiated

Measurement Limit:

Standard	Limit (dBm/MHz)	
FCC 47 CFR Part 15.407	at the band edge	27
	at 5 MHz above or below the band edge	15.6
	at 25 MHz above or below the band edge	10
	at 75 MHz or more above or below the band edge	-27
	Note: Increasing linearly from point to point.	

The measurement is made according to KDB 789033

Measurement Results:

802.11a mode

Mode	Channel	Frequency Range	Test Results	Conclusion	
802.11a	149	1 GHz ~ 3 GHz	---	P	
		3 GHz ~ 7 GHz	---	P	
		7 GHz ~ 18 GHz	---	P	
	157	157	30 MHz ~1 GHz	---	P
			1 GHz ~ 3 GHz	---	P
			3 GHz ~ 7 GHz	---	P
			7 GHz ~ 18 GHz	---	P
			18 GHz ~ 26.5 GHz	---	P
	165	165	26.5 GHz~ 40 GHz	---	P
			1 GHz ~ 3 GHz	---	P
			3 GHz ~ 7 GHz	---	P
			7 GHz ~ 18 GHz	---	P

802.11n-HT20 mode

Mode	Channel	Frequency Range	Test Results	Conclusion	
802.11n (HT20)	149	1 GHz ~ 3 GHz	---	P	
		3 GHz ~ 7 GHz	---	P	
		7 GHz ~ 18 GHz	---	P	
	157	157	30 MHz ~1 GHz	---	P
			1 GHz ~ 3 GHz	---	P
			3 GHz ~ 7 GHz	---	P
			7 GHz ~ 18 GHz	---	P
			18 GHz ~ 26.5 GHz	---	P
	165	165	26.5 GHz~ 40 GHz	---	P
			1 GHz ~ 3 GHz	---	P
			3 GHz ~ 7 GHz	---	P
			7 GHz ~ 18 GHz	---	P

802.11n-HT40 mode

Mode	Channel	Frequency Range	Test Results	Conclusion	
802.11n (HT40)	151	30 MHz ~1 GHz	---	P	
		1 GHz ~ 3 GHz	---	P	
		3 GHz ~ 7 GHz	---	P	
		7 GHz ~ 18 GHz	---	P	
		18 GHz ~ 26.5 GHz	---	P	
		26.5 GHz~ 40 GHz	---	P	
	159	159	1 GHz ~ 3 GHz	---	P
			3 GHz ~ 7 GHz	---	P
			7 GHz ~ 18 GHz	---	P

802.11ac-HT20 mode

Mode	Channel	Frequency Range	Test Results	Conclusion
802.11ac (HT20)	149	1 GHz ~ 3 GHz	---	P
		3 GHz ~ 7 GHz	---	P
		7 GHz ~ 18 GHz	---	P
	157	30 MHz ~1 GHz	---	P
		1 GHz ~ 3 GHz	---	P
		3 GHz ~ 7 GHz	---	P
		7 GHz ~ 18 GHz	---	P
		18 GHz ~ 26.5 GHz	---	P
	165	26.5 GHz~ 40 GHz	---	P
		1 GHz ~ 3 GHz	---	P
		3 GHz ~ 7 GHz	---	P
		7 GHz ~ 18 GHz	---	P

802.11ac-HT40 mode

Mode	Channel	Frequency Range	Test Results	Conclusion
802.11ac (HT40)	151	30 MHz ~1 GHz	---	P
		1 GHz ~ 3 GHz	---	P
		3 GHz ~ 7 GHz	---	P
		7 GHz ~ 18 GHz	---	P
		18 GHz ~ 26.5 GHz	---	P
		26.5 GHz~ 40 GHz	---	P
	159	1 GHz ~ 3 GHz	---	P
		3 GHz ~ 7 GHz	---	P
		7 GHz ~ 18 GHz	---	P

802.11ac-HT80 mode

Mode	Channel	Frequency Range	Test Results	Conclusion
802.11ac (HT80)	155	30 MHz ~1 GHz	---	P
		1 GHz ~ 3 GHz	---	P
		3 GHz ~ 7 GHz	---	P
		7 GHz ~ 18 GHz	---	P
		18 GHz ~ 26.5 GHz	---	P
		26.5 GHz~ 40 GHz	---	P

Conclusion: PASS

Note:

A "reference path loss" is established and the A_{Rpl} is the attenuation of "reference path loss", and including the gain of receive antenna, the gain of the preamplifier, the cable loss.

P_{Mea} is the field strength recorded from the instrument.

Average Results:
802.11a

Channel 149

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17938.033	41.22	-29.59	45.95	24.86	54.00	12.78	H
17954.533	40.75	-29.59	45.95	24.39	54.00	13.25	V
12220.600	36.95	-32.12	38.90	30.17	54.00	17.05	H
12308.600	36.87	-32.12	39.00	29.99	54.00	17.13	H
8359.600	34.34	-34.93	37.20	32.07	54.00	19.66	V
8498.933	34.12	-34.28	37.30	31.10	54.00	19.88	V

Channel 157

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17937.300	41.07	-29.59	45.95	24.71	54.00	12.93	H
17982.400	40.89	-29.59	45.95	24.53	54.00	13.11	V
12330.233	37.14	-32.39	38.95	30.58	54.00	16.86	H
12331.700	37.11	-32.39	38.95	30.55	54.00	16.89	V
8333.933	34.15	-34.93	37.20	31.88	54.00	19.85	H
8280.400	34.09	-34.84	37.10	31.82	54.00	19.91	V

Channel 165

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17975.800	41.02	-29.59	45.95	24.66	54.00	12.98	V
17840.133	40.96	-29.59	45.95	24.60	54.00	13.04	V
12311.167	37.43	-32.12	39.00	30.55	54.00	16.57	V
12310.800	37.25	-32.12	39.00	30.37	54.00	16.75	H
8277.833	34.26	-34.84	37.10	31.99	54.00	19.74	V
8035.467	34.17	-34.89	36.90	32.16	54.00	19.83	V

802.11n-HT20

Channel 149

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17942.433	40.88	-29.59	45.95	24.52	54.00	13.12	H
17937.300	40.86	-29.59	45.95	24.50	54.00	13.14	H
12329.500	36.97	-32.39	38.95	30.41	54.00	17.03	H
12330.600	36.97	-32.39	38.95	30.41	54.00	17.03	V
8499.667	34.06	-34.28	37.30	31.04	54.00	19.94	V
8498.200	33.94	-34.28	37.30	30.92	54.00	20.06	H

Channel 157

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17972.500	41.73	-29.59	45.95	25.37	54.00	12.27	V
17973.967	40.80	-29.59	45.95	24.44	54.00	13.20	H
12331.700	37.62	-32.39	38.95	31.06	54.00	16.38	H
12332.800	37.18	-32.39	38.95	30.62	54.00	16.82	V
8468.867	35.00	-34.28	37.30	31.98	54.00	19.00	H
8357.767	34.14	-34.93	37.20	31.87	54.00	19.86	V

Channel 165

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17979.100	40.97	-29.59	45.95	24.61	54.00	13.03	H
17934.000	40.96	-29.59	45.95	24.60	54.00	13.04	V
12308.600	37.97	-32.12	39.00	31.09	54.00	16.03	H
12333.167	37.54	-32.39	38.95	30.98	54.00	16.46	H
8357.767	34.04	-34.93	37.20	31.77	54.00	19.96	H
8311.567	34.02	-34.84	37.10	31.75	54.00	19.98	H

802.11n-HT40

Channel 151

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17971.767	41.31	-29.59	45.95	24.95	54.00	12.69	H
17976.533	40.99	-29.59	45.95	24.63	54.00	13.01	V
12289.533	37.73	-32.12	39.00	30.85	54.00	16.27	V
12332.067	37.42	-32.39	38.95	30.86	54.00	16.58	V
8290.667	34.02	-34.84	37.10	31.75	54.00	19.98	H
8361.433	33.93	-34.93	37.20	31.66	54.00	20.07	V

Channel 159

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17874.233	41.04	-29.59	45.95	24.68	54.00	12.96	H
17931.433	40.82	-29.59	45.95	24.46	54.00	13.18	V
12332.433	37.32	-32.39	38.95	30.76	54.00	16.68	H
12327.667	37.06	-32.39	38.95	30.50	54.00	16.94	V
9051.500	34.04	-34.00	37.80	30.24	54.00	19.96	V
8492.333	33.97	-34.28	37.30	30.95	54.00	20.03	H

802.11ac-HT20

Channel 149

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17941.333	41.09	-29.59	45.95	24.73	54.00	12.91	V
17971.033	40.95	-29.59	45.95	24.59	54.00	13.05	V
12310.433	37.74	-32.12	39.00	30.86	54.00	16.26	H
12264.600	37.56	-32.37	38.95	30.98	54.00	16.44	V
8232.367	34.44	-34.48	37.00	31.92	54.00	19.56	V
8192.033	33.77	-34.94	36.90	31.81	54.00	20.23	V

Channel 157

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17979.467	41.21	-29.59	45.95	24.85	54.00	12.79	V
17983.133	41.12	-29.59	45.95	24.76	54.00	12.88	V
12330.233	37.83	-32.39	38.95	31.27	54.00	16.17	V
12330.967	37.74	-32.39	38.95	31.18	54.00	16.26	V
9475.000	34.43	-34.40	37.70	31.13	54.00	19.57	V
8193.500	34.22	-34.94	36.90	32.26	54.00	19.78	H

Channel 165

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17978.367	41.12	-29.59	45.95	24.76	54.00	12.88	V
17932.167	40.94	-29.59	45.95	24.58	54.00	13.06	H
12264.600	38.16	-32.37	38.95	31.58	54.00	15.84	H
12332.433	37.20	-32.39	38.95	30.64	54.00	16.80	V
8219.167	33.98	-34.48	37.00	31.46	54.00	20.02	H
8329.900	33.78	-34.93	37.20	31.51	54.00	20.22	H

802.11ac-HT40

Channel 151

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17935.467	41.20	-29.59	45.95	24.84	54.00	12.80	V
17979.100	40.62	-29.59	45.95	24.26	54.00	13.38	V
12263.500	37.12	-32.37	38.95	30.54	54.00	16.88	V
12332.800	37.09	-32.39	38.95	30.53	54.00	16.91	H
9045.633	34.26	-34.00	37.80	30.46	54.00	19.74	V
8222.100	33.71	-34.48	37.00	31.19	54.00	20.29	V

Channel 159

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17945.367	41.35	-29.59	45.95	24.99	54.00	12.65	H
17934.000	41.33	-29.59	45.95	24.97	54.00	12.67	V
12333.167	37.47	-32.39	38.95	30.91	54.00	16.53	H
12308.967	37.16	-32.12	39.00	30.28	54.00	16.84	V
8238.600	34.51	-34.48	37.00	31.99	54.00	19.49	V
9477.567	33.97	-34.40	37.70	30.67	54.00	20.03	H

802.11ac-HT80

Channel 155

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17936.200	41.10	-29.59	45.95	24.74	54.00	12.90	V
17956.367	41.08	-29.59	45.95	24.72	54.00	12.92	H
12219.867	37.60	-32.12	38.90	30.82	54.00	16.40	V
12269.000	37.25	-32.37	38.95	30.67	54.00	16.75	H
8350.067	33.90	-34.93	37.20	31.63	54.00	20.10	V
8207.433	33.70	-34.94	36.90	31.74	54.00	20.30	V

Peak Results:
802.11a

Channel 149

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17958.200	49.45	-29.59	45.95	33.09	74.00	24.55	V
17948.300	49.31	-29.59	45.95	32.95	74.00	24.69	V
12333.167	46.15	-32.39	38.95	39.59	74.00	27.85	V
12312.633	45.86	-32.12	39.00	38.98	74.00	28.14	H
10267.367	43.65	-33.82	38.00	39.47	68.20	24.55	H
10247.933	43.59	-33.82	38.00	39.41	68.20	24.61	H

Channel 157

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17936.933	49.34	-29.59	45.95	32.98	74.00	24.66	V
17096.533	49.15	-29.25	41.40	37.00	68.20	19.05	V
12333.167	45.38	-32.39	38.95	38.82	74.00	28.62	V
12287.700	45.36	-32.12	39.00	38.48	74.00	28.64	V
10229.233	42.86	-34.09	38.00	38.95	68.20	25.34	V
10181.200	42.76	-33.67	38.05	38.38	68.20	25.44	H

Channel 165

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17096.533	49.71	-29.25	41.40	37.56	68.20	18.49	V
17932.533	49.66	-29.59	45.95	33.30	74.00	24.34	H
12292.833	46.38	-32.12	39.00	39.50	74.00	27.62	H
12190.167	45.65	-32.12	38.90	38.87	74.00	28.35	V
10274.700	43.63	-33.82	38.00	39.45	68.20	24.57	V
10061.667	43.49	-33.75	38.05	39.19	68.20	24.71	H

802.11n-HT20

Channel 149

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17943.533	48.98	-29.59	45.95	32.62	74.00	25.02	H
17896.233	48.83	-29.59	45.95	32.47	74.00	25.17	V
12270.100	45.76	-32.37	38.95	39.18	74.00	28.24	V
12285.867	45.72	-32.12	39.00	38.84	74.00	28.28	V
8497.833	43.39	-34.28	37.30	40.37	74.00	30.61	V
10245.367	43.03	-34.09	38.00	39.12	68.20	25.17	V

Channel 157

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17975.433	50.06	-29.59	45.95	33.70	74.00	23.94	V
17870.567	49.13	-29.59	45.95	32.77	74.00	24.87	V
12219.133	45.50	-32.12	38.90	38.72	74.00	28.50	H
12327.300	45.49	-32.39	38.95	38.93	74.00	28.51	H
8490.867	43.33	-34.28	37.30	40.31	74.00	30.67	V
10138.667	43.25	-34.28	38.10	39.43	68.20	24.95	H

Channel 165

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17943.533	49.37	-29.59	45.95	33.01	74.00	24.63	H
17991.933	49.32	-29.59	45.95	32.96	74.00	24.68	H
12332.433	45.97	-32.39	38.95	39.41	74.00	28.03	H
11765.567	45.92	-32.71	39.20	39.43	74.00	28.08	H
8610.767	43.32	-34.87	37.50	40.69	68.20	24.88	H
8940.033	42.93	-33.35	37.70	38.58	68.20	25.27	V

802.11n-HT40

Channel 151

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17195.167	49.95	-29.08	42.05	36.98	68.20	18.25	V
17274.733	49.81	-29.33	42.40	36.74	68.20	18.39	H
12289.167	46.24	-32.12	39.00	39.36	74.00	27.76	H
12271.933	45.75	-32.37	38.95	39.17	74.00	28.25	H
8508.833	43.95	-34.28	37.30	40.93	68.20	24.25	V
8820.500	43.85	-33.97	37.80	40.02	68.20	24.35	H

Channel 159

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17082.967	49.92	-29.25	41.40	37.77	68.20	18.28	V
17941.700	49.73	-29.59	45.95	33.37	74.00	24.27	V
12332.433	45.92	-32.39	38.95	39.36	74.00	28.08	H
12308.600	45.81	-32.12	39.00	38.93	74.00	28.19	H
10123.267	43.39	-34.28	38.10	39.57	68.20	24.81	H
10204.300	43.32	-34.09	38.00	39.41	68.20	24.88	V

802.11ac-HT20

Channel 149

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17935.100	49.52	-29.59	45.95	33.16	74.00	24.48	H
17344.033	49.17	-28.74	43.40	34.51	68.20	19.03	H
12310.433	45.67	-32.12	39.00	38.79	74.00	28.33	H
11765.567	45.60	-32.71	39.20	39.11	74.00	28.40	H
10238.400	43.43	-34.09	38.00	39.52	68.20	24.77	H
10125.100	43.05	-34.28	38.10	39.23	68.20	25.15	V

Channel 157

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17956.000	50.05	-29.59	45.95	33.69	74.00	23.95	H
17979.467	49.82	-29.59	45.95	33.46	74.00	24.18	H
11766.300	45.91	-32.71	39.20	39.42	74.00	28.09	H
12312.633	45.70	-32.12	39.00	38.82	74.00	28.30	H
10112.267	43.97	-34.28	38.10	40.15	68.20	24.23	V
10108.967	43.96	-34.28	38.10	40.14	68.20	24.24	V

Channel 165

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17859.933	49.73	-29.59	45.95	33.37	74.00	24.27	H
17347.700	49.63	-28.74	43.40	34.97	68.20	18.57	H
12264.600	47.36	-32.37	38.95	40.78	74.00	26.64	H
12219.500	46.21	-32.12	38.90	39.43	74.00	27.79	H
8357.400	43.83	-34.93	37.20	41.56	74.00	30.17	H
10147.100	43.04	-34.28	38.10	39.22	68.20	25.16	V

802.11ac-HT40

Channel 151

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
16858.933	49.78	-29.50	40.00	39.28	68.20	18.42	V
17433.133	49.43	-28.70	44.20	33.93	68.20	18.77	H
12226.100	46.08	-32.12	38.90	39.30	74.00	27.92	V
12195.667	45.68	-32.12	38.90	38.90	74.00	28.32	H
8512.867	43.16	-34.28	37.30	40.14	68.20	25.04	H
9665.667	43.11	-33.86	37.70	39.27	68.20	25.09	H

Channel 159

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17841.233	50.06	-29.59	45.95	33.70	74.00	23.94	H
17939.867	49.44	-29.59	45.95	33.08	74.00	24.56	V
12332.433	46.51	-32.39	38.95	39.95	74.00	27.49	H
12333.167	46.48	-32.39	38.95	39.92	74.00	27.52	H
10082.567	43.67	-33.75	38.05	39.37	68.20	24.53	H
10227.767	43.15	-34.09	38.00	39.24	68.20	25.05	V

802.11ac-HT80

Channel 155

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17965.900	50.18	-29.59	45.95	33.82	74.00	23.82	H
17936.200	49.75	-29.59	45.95	33.39	74.00	24.25	V
12329.133	46.70	-32.39	38.95	40.14	74.00	27.30	V
12328.767	46.63	-32.39	38.95	40.07	74.00	27.37	H
8344.200	43.71	-34.93	37.20	41.44	74.00	30.29	H
10154.433	43.56	-33.67	38.05	39.18	68.20	24.64	V

A.6. Band Edges Compliance

A6.1 Band Edges - Radiated

Measurement Limit:

Standard	Limit (dBm/MHz)	
FCC 47 CFR Part 15.407	at the band edge	27
	at 5 MHz above or below the band edge	15.6
	at 25 MHz above or below the band edge	10
	at 75 MHz or more above or below the band edge	-27
	Note: increasing linearly from point to point.	

Measurement Result:

Mode	Channel	Test Results	Conclusion
802.11a	5745 MHz	Fig.10	P
	5825 MHz	Fig.11	P
802.11n HT20	5745 MHz	Fig.12	P
	5825 MHz	Fig.13	P
802.11n HT40	5755 MHz	Fig.14	P
	5795 MHz	Fig.15	P
802.11ac HT20	5745 MHz	Fig.16	P
	5825 MHz	Fig.17	P
802.11ac HT40	5755 MHz	Fig.18	P
	5795 MHz	Fig.19	P
802.11ac HT80	5775 MHz	Fig.20 Fig.21	P

Conclusion: PASS

Test graphs as below:

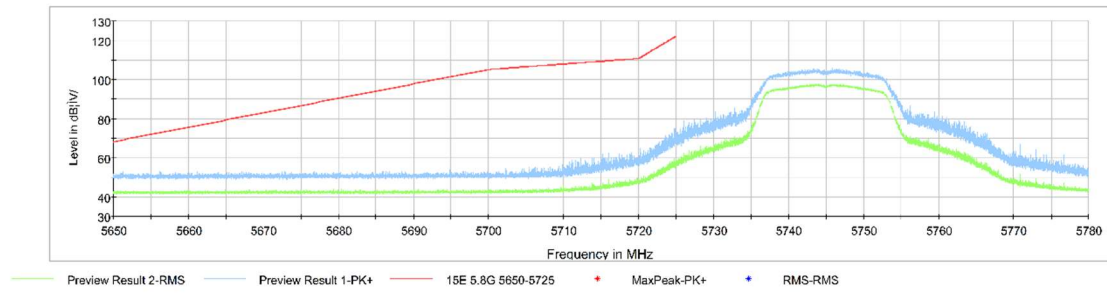


Fig. 10 Band Edges (802.11a Ch149,5745MHz)

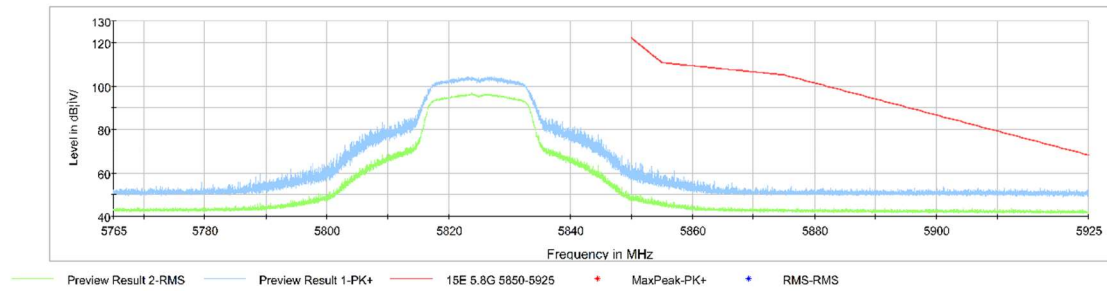


Fig. 11 Band Edges (802.11a Ch165, 5825MHz)

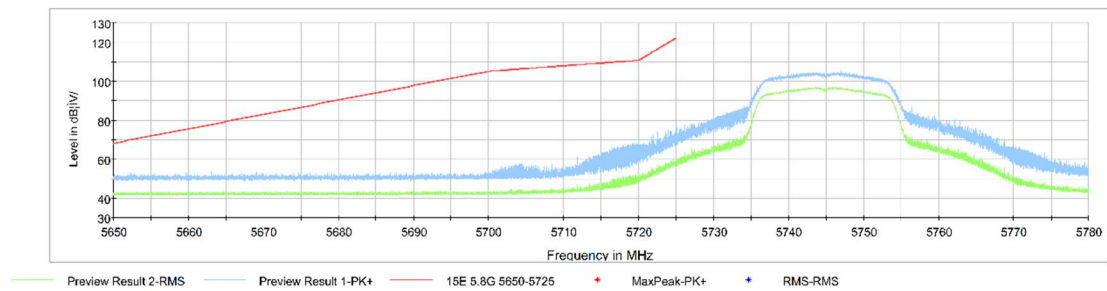


Fig. 12 Band Edges (802.11n-HT20 Ch149, 5745MHz)

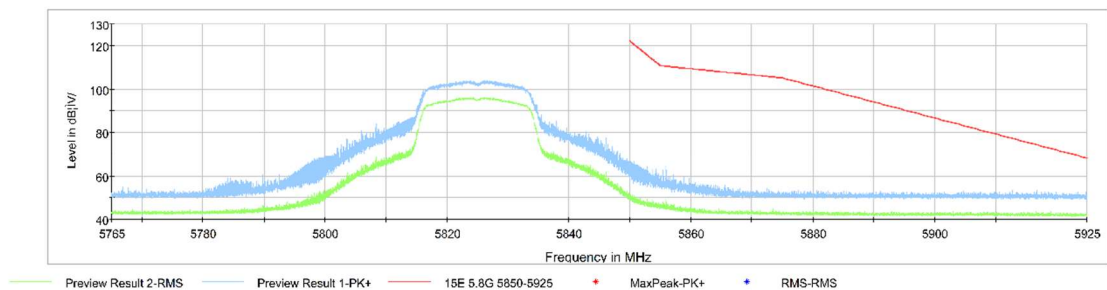


Fig. 13 Band Edges (802.11n-HT20 Ch165, 5825MHz)

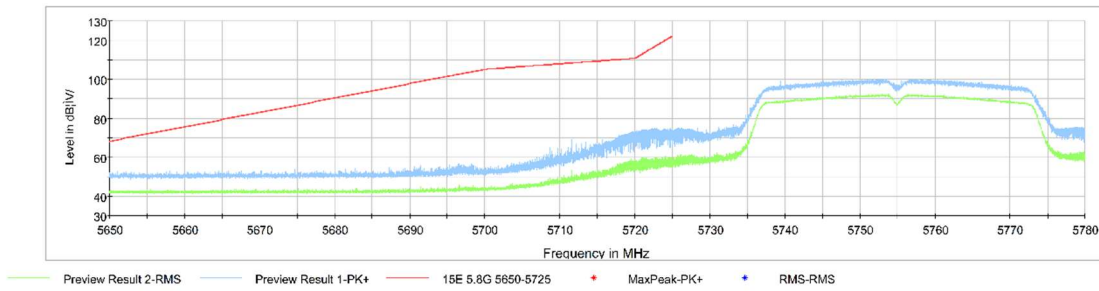


Fig. 14 Band Edges (802.11n-HT40 Ch151, 5755MHz)

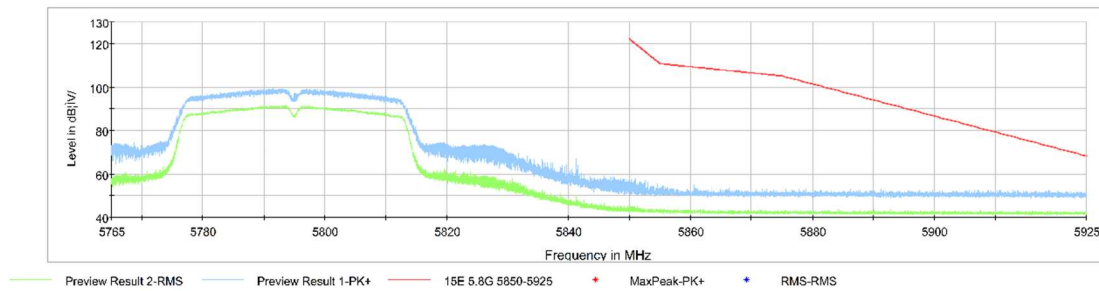


Fig. 15 Band Edges (802.11n-HT40 Ch159, 5795MHz)

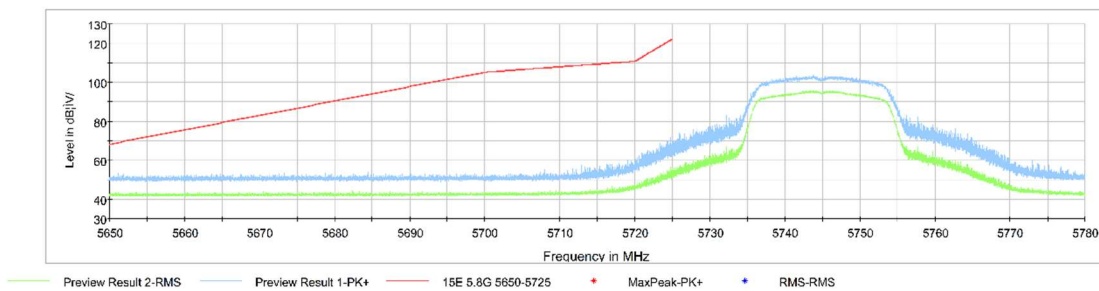


Fig. 16 Band Edges (802.11ac-HT20 Ch149, 5745MHz)

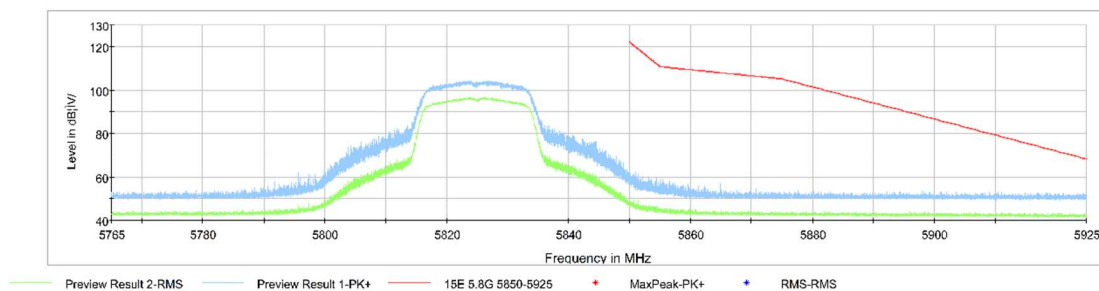


Fig. 17 Band Edges (802.11ac-HT20 Ch165, 5825MHz)

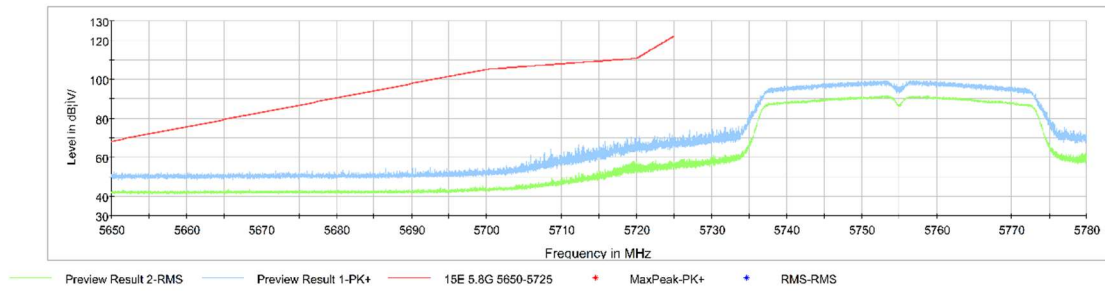


Fig. 18 Band Edges (802.11ac-HT40 Ch151, 5755MHz)

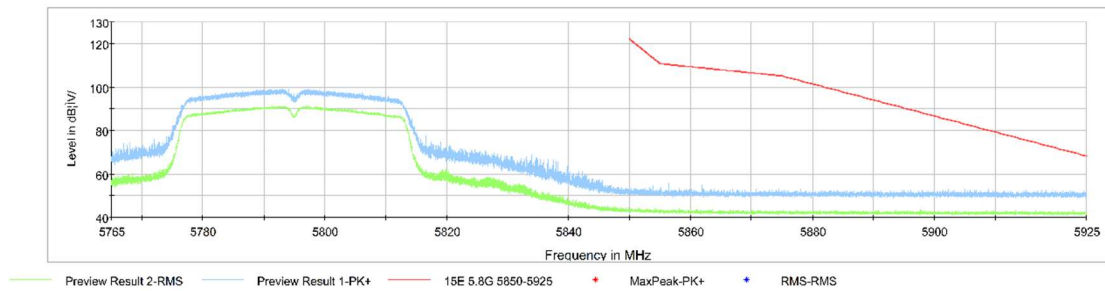


Fig. 19 Band Edges (802.11ac-HT40 Ch159, 5795MHz)

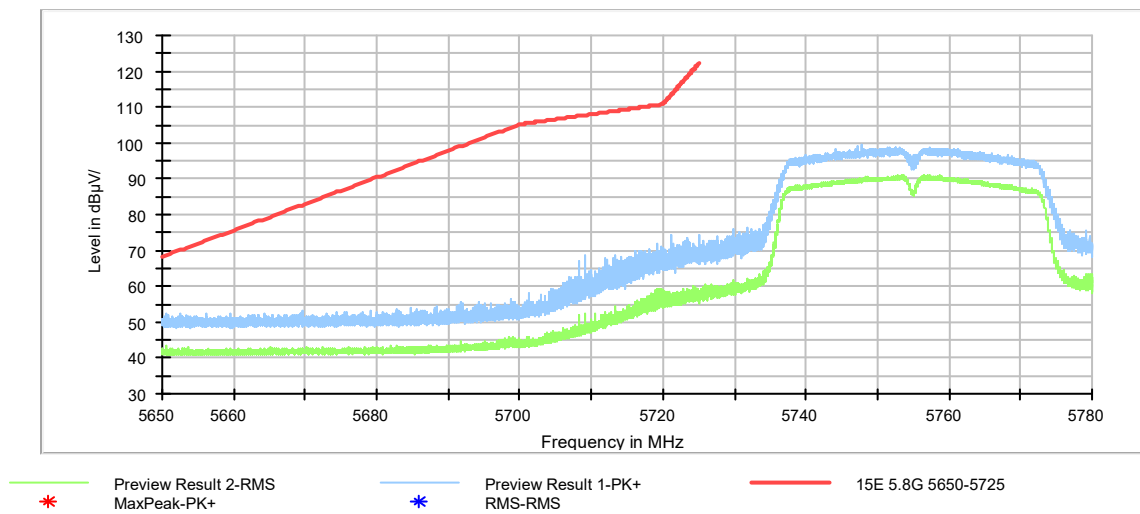


Fig. 20 Band Edges (802.11ac-HT80 Ch155, 5775MHz)

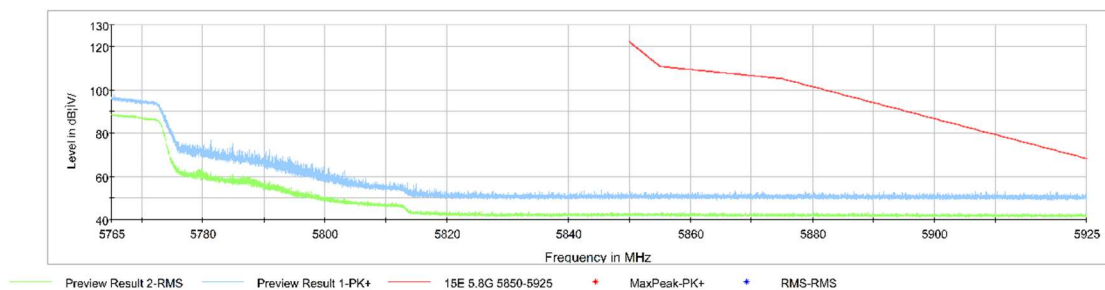


Fig. 21 Band Edges (802.11ac-HT80, 5775MHz)

A.7. AC Powerline Conducted Emission

Test Condition:

Voltage (V)	Frequency (Hz)
120	60

Measurement uncertainty:

Expanded measurement uncertainty for this test item is $U = 3.08\text{dB}$, $k=2$.

Measurement Result and limit:

WLAN (Quasi-peak Limit)

Frequency range (MHz)	Quasi-peak Limit (dB μ V)	Result (dB μ V)		Conclusion
		With charger		
		802.11a	Idle	
0.15 to 0.5	66 to 56	Fig.22	Fig.23	P
0.5 to 5	56			
5 to 30	60			

NOTE: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.

WLAN (Average Limit)

Frequency range (MHz)	Average Limit (dB μ V)	Result (dB μ V)		Conclusion
		With charger		
		802.11a	Idle	
0.15 to 0.5	56 to 46	Fig.22	Fig.23	P
0.5 to 5	46			
5 to 30	50			

NOTE: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.

The measurement is made according to ANSI C63.10 .

Conclusion: PASS

Test graphs as below:

Traffic:

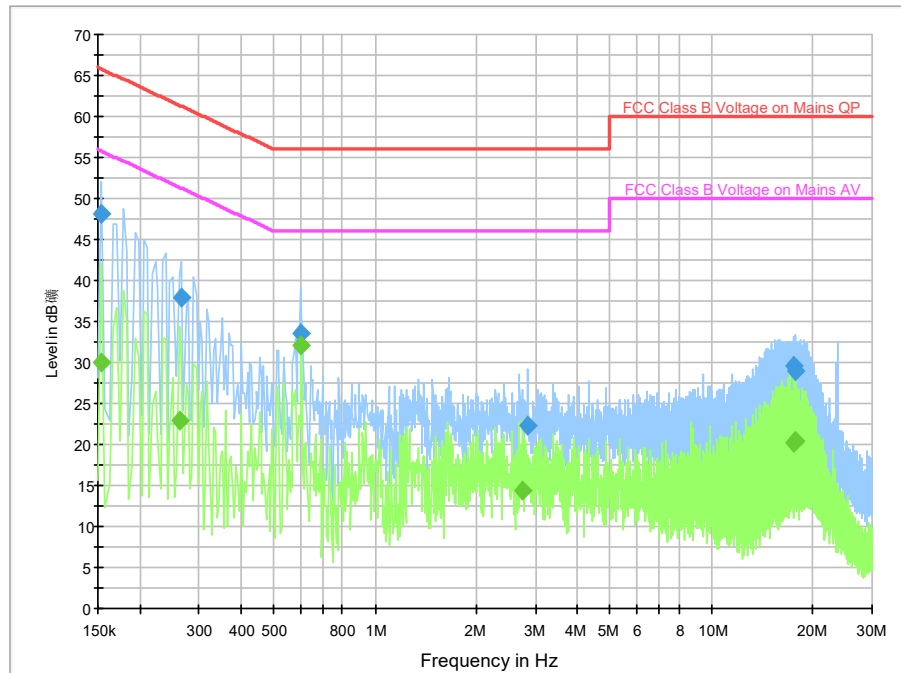


Fig. 22 AC Power line Conducted Emission-802.11a

Note1: The graphic result above is the maximum of the measurements for both phase line and neutral line.

Final Result 1

Frequency (MHz)	QuasiPeak (dBµV)	Meas. Time	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)	Comment
0.154000	48.0	2000.	9.000	On	N	19.9	17.7	65.8	
0.266000	37.9	2000.	9.000	On	N	19.7	23.3	61.2	
0.598000	33.5	2000.	9.000	On	N	19.6	22.5	56.0	
2.830000	22.2	2000.	9.000	On	N	19.6	33.8	56.0	
17.534000	29.7	2000.	9.000	On	L1	19.7	30.3	60.0	
17.770000	29.0	2000.	9.000	On	L1	19.7	31.0	60.0	

Final Result 2

Frequency (MHz)	QuasiPeak (dBµV)	Meas. Time	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)	Comment
0.154000	29.9	2000.	9.000	On	N	19.9	25.8	55.8	
0.262000	22.9	2000.	9.000	On	L1	19.7	28.5	51.4	
0.602000	32.2	2000.	9.000	On	L1	19.7	13.8	46.0	
2.742000	14.5	2000.	9.000	On	N	19.6	31.5	46.0	
17.534000	20.2	2000.	9.000	On	L1	19.7	29.8	50.0	
17.798000	20.4	2000.	9.000	On	L1	19.7	29.6	50.0	

Note2: The measurement results showed here are worst cases of the combinations of different cables and chargers

Idle:

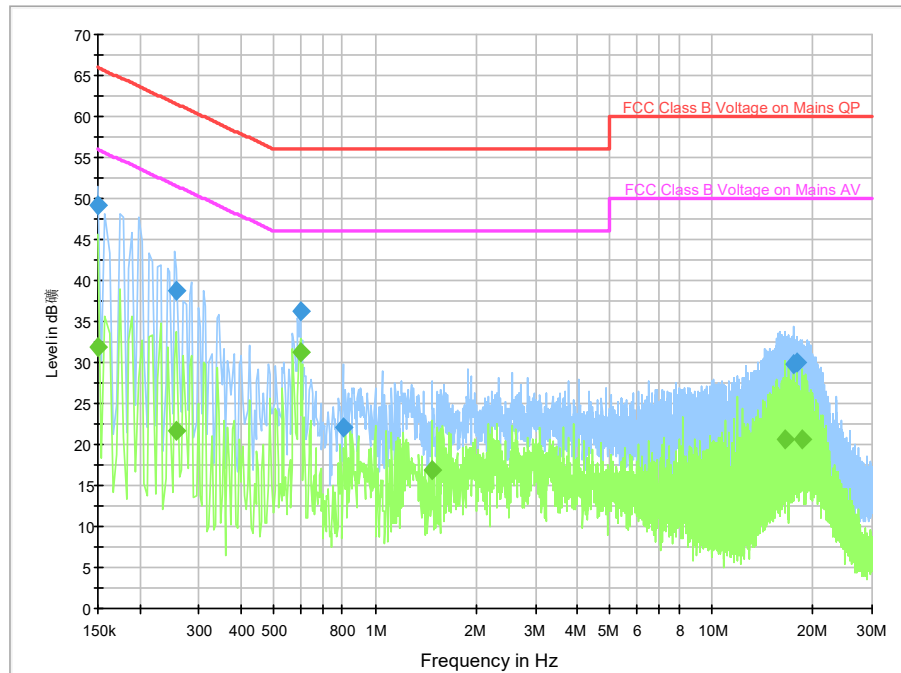


Fig. 23 AC Power line Conducted Emission-Idle

Note1: The graphic result above is the maximum of the measurements for both phase line and neutral line.

Final Result 1

Frequency (MHz)	QuasiPeak (dBµV)	Meas. Time	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)	Comment
0.150000	49.1	2000.	9.000	On	L1	20.0	16.9	66.0	
0.258000	38.7	2000.	9.000	On	N	19.7	22.8	61.5	
0.598000	36.3	2000.	9.000	On	L1	19.7	19.7	56.0	
0.802000	22.0	2000.	9.000	On	L1	19.7	34.0	56.0	
17.634000	29.7	2000.	9.000	On	L1	19.7	30.3	60.0	
17.962000	30.0	2000.	9.000	On	L1	19.7	30.0	60.0	

Final Result 2

Frequency (MHz)	QuasiPeak (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)	Comment
0.150000	31.9	2000.0	9.000	On	N	20.0	24.1	56.0	
0.258000	21.7	2000.0	9.000	On	N	19.7	29.8	51.5	
0.598000	31.2	2000.0	9.000	On	L1	19.7	14.8	46.0	
1.482000	16.9	2000.0	9.000	On	L1	19.7	29.1	46.0	
16.482000	20.7	2000.0	9.000	On	L1	19.7	29.3	50.0	
18.602000	20.6	2000.0	9.000	On	L1	19.7	29.4	50.0	

Note2: The measurement results showed here are worst cases of the combinations of different cables and chargers

ANNEX B: EUT parameters

Disclaimer: The antenna gain and worse case provided by the client may affect the validity of the measurement results in this report, and the client shall bear the impact and consequences arising therefrom.

ANNEX C: Accreditation Certificate

<p>United States Department of Commerce National Institute of Standards and Technology</p>  	
<hr/> Certificate of Accreditation to ISO/IEC 17025:2017 <hr/>	
NVLAP LAB CODE: 600118-0	
Telecommunication Technology Labs, CAICT Beijing China	
<i>is accredited by the National Voluntary Laboratory Accreditation Program for specific services, listed on the Scope of Accreditation, for:</i>	
Electromagnetic Compatibility & Telecommunications	
<i>This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communique dated January 2009).</i>	
<hr/> 2022-10-01 through 2023-09-30 <i>Effective Dates</i>	  <i>For the National Voluntary Laboratory Accreditation Program</i>

*** END OF REPORT BODY ***