



FCC PART 15C TEST REPORT No.I23Z60212-IOT04

for

HMD Global Oy

Smart Phone

TA-1573

With

FCC ID: 2AJOTTA-1573

Hardware Version: V1.0

Software Version: 04US_0_170

Issued Date: 2023-05-11

Note:

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No.I23Z60212-IOT04

REPORT HISTORY

Report Number	Revision	Description	Issue Date
I23Z60212-IOT04	Rev.0	1st edition	2023-04-19
I23Z60212-IOT04	Rev.1	Update model of USB cable.	2023-05-11

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1. TEST LATORATORY

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(BDA)

Address: No.18A, Kangding Street, Beijing Economic-Technology
Development Area, Beijing, P. R. China 100176

1.3. TestingEnvironment

Normal Temperature: 15-35°C

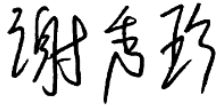
Relative Humidity: 20-75%

1.4. Project date

Testing Start Date: 2023-03-08

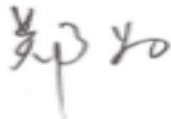
Testing End Date: 2023-04-19

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

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2.2. Manufacturer Information

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Telephone: +491735287964
Fax: /

3. EQUIPMENT UNDER TEST (EUT) AND ANCILLARY

EQUIPMENT(AE)

3.1. About EUT

Description	Smart Phone
Model name	TA-1573
FCC ID	2AJOTTA-1573
WLAN Frequency Band	ISM Band: 5725MHz~5850MHz
Type of modulation	OFDM
Voltage	3.87V

3.2. Internal Identification of EUT used during the test

EUT ID*	IMEI	HW Version	SW Version
UT18a	350547140005634	V1.0	04US_0_170
UT82a	350547140019668	V1.0	04US_0_170

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

UT18a is used for Conduction test, UT82a is used for Radiation test.

3.3. Internal Identification of AE used during the test

AE ID*	Description	Type	SN
AE1	Battery	/	/
AE2	Charger	/	/
AE3	USB Cable		

AE1

Model	HQ610
Manufacturer	Fenghua Lithium Battery Co., Ltd
Capacity	5000mAh
Nominal Voltage	

AE2

Model	AD-020U
Manufacturer	AOHAI
Length of cable	/

AE3

Model	SZN-A023A
Manufacturer	Saibao (Jiangxi) Industry Co.,Ltd.
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 Smart Phone 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	3.87V
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	2023-06-15
2	Test Receiver	ESCI	100766	R&S	1 year	2024-03-30
3	LISN	ENV216	101459	R&S	1 year	2024-03-29
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	103015	R&S	1 year	2024-01-11
2	EMI Antenna	VULB 9163	01177	SCHWARZBECK	1 year	2023-08-03
3	EMI Antenna	3117	00139065	ETS-Lindgren	1 year	2023-09-19
4	EMI Antenna	3116	2663	ETS-Lindgren	1 year	2023-11-22

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	/
$30\text{MHz} \leq f \leq 1\text{GHz}$	5.73
$1\text{GHz} \leq f \leq 18\text{GHz}$	5.58
$18\text{GHz} \leq f \leq 40\text{GHz}$	3.37

8.6. AC Power-line Conducted Emission

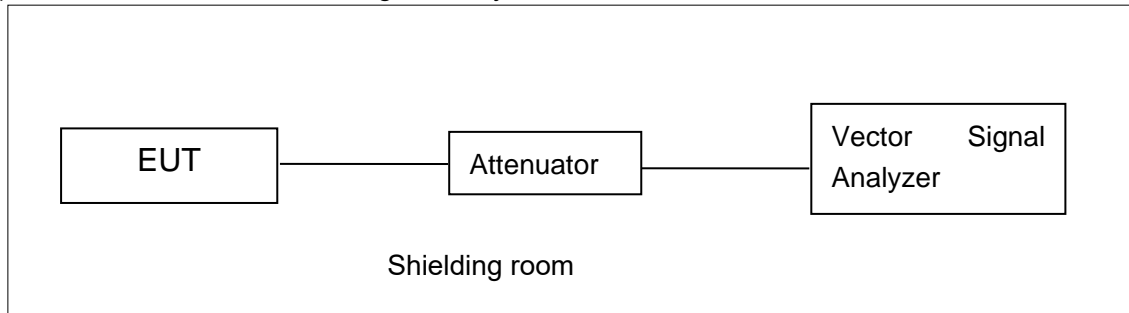
Measurement Uncertainty: 3.1dB, k=2

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

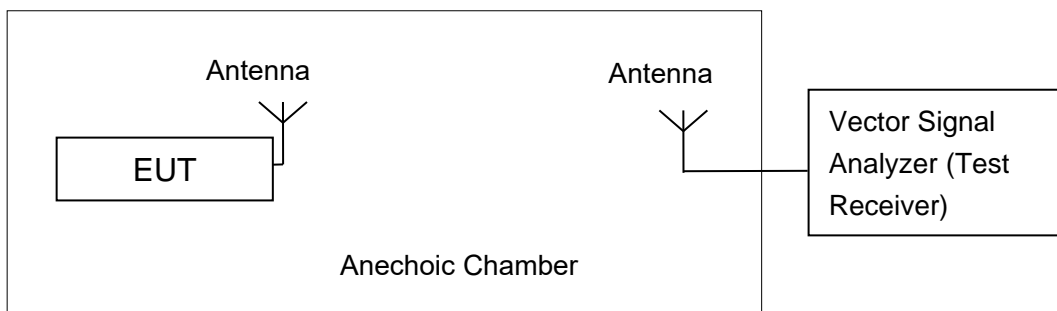


A.1.2. Radiated Emission Measurements

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 -0.5dBi 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	17.83	17.85	17.97

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	17.59	17.63	17.74

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	17.51	17.75	17.67

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	17.82	17.91

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	16.87	16.71

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	16.20

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

Duty Cycle

Mode	802.11a	802.11n20	802.11n40	802.11ac20	802.11ac40	802.11ac80
Duty Cycle	98%	98%	98%	98%	98%	99%

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	4.10	P
	157	4.25	P
	165	4.42	P
802.11ac HT20	149	3.62	P
	157	3.84	P
	165	3.95	P
802.11n HT40	151	0.69	P
	159	0.79	P
802.11ac HT80	155	-4.39	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	15.75	P
	157	Fig.2	15.80	P
	165	Fig.3	15.65	P
802.11ac HT20	149	Fig.4	15.80	P
	157	Fig.5	15.15	P
	165	Fig.6	15.15	P
802.11n HT40	151	Fig.7	35.60	P
	159	Fig.8	35.44	P
802.11ac HT80	155	Fig.9	75.52	P

Conclusion: PASS

Test graphs as below:

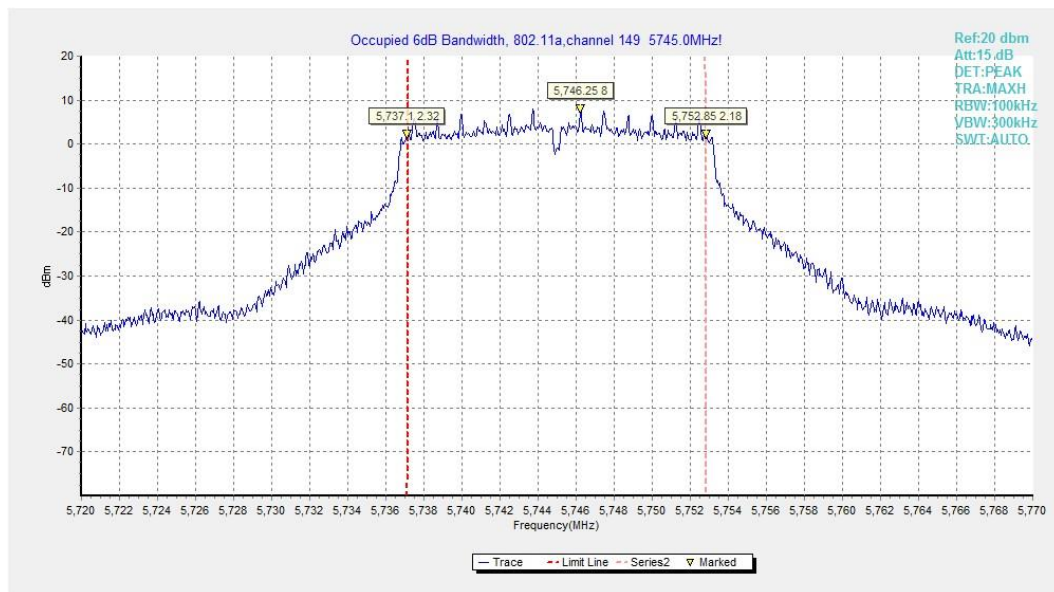


Fig. 1 Occupied 6dB Bandwidth (802.11a, Ch 149)

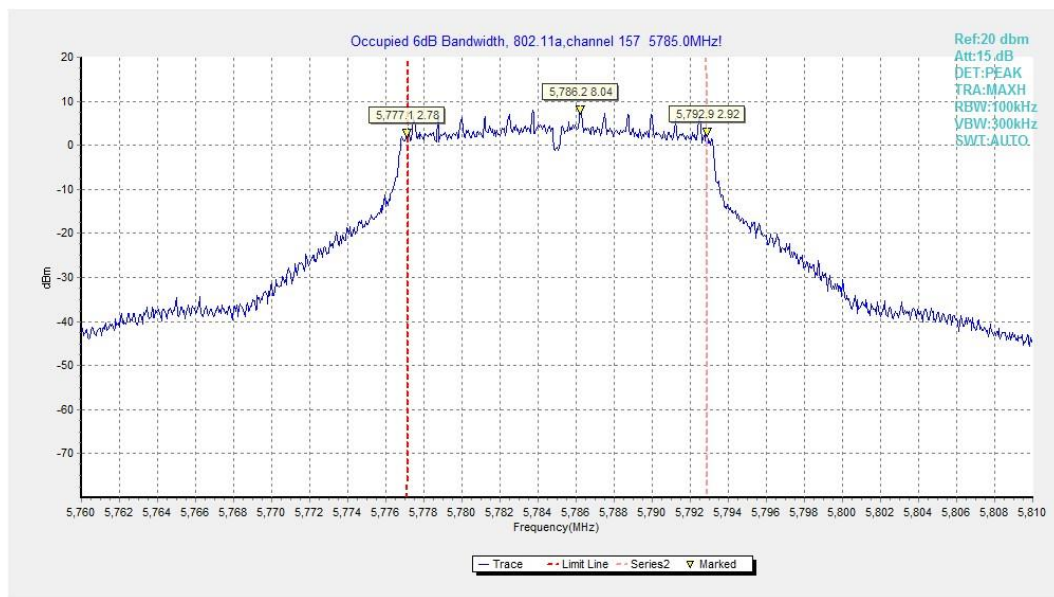


Fig. 2 Occupied 6dB Bandwidth (802.11a, Ch 157)

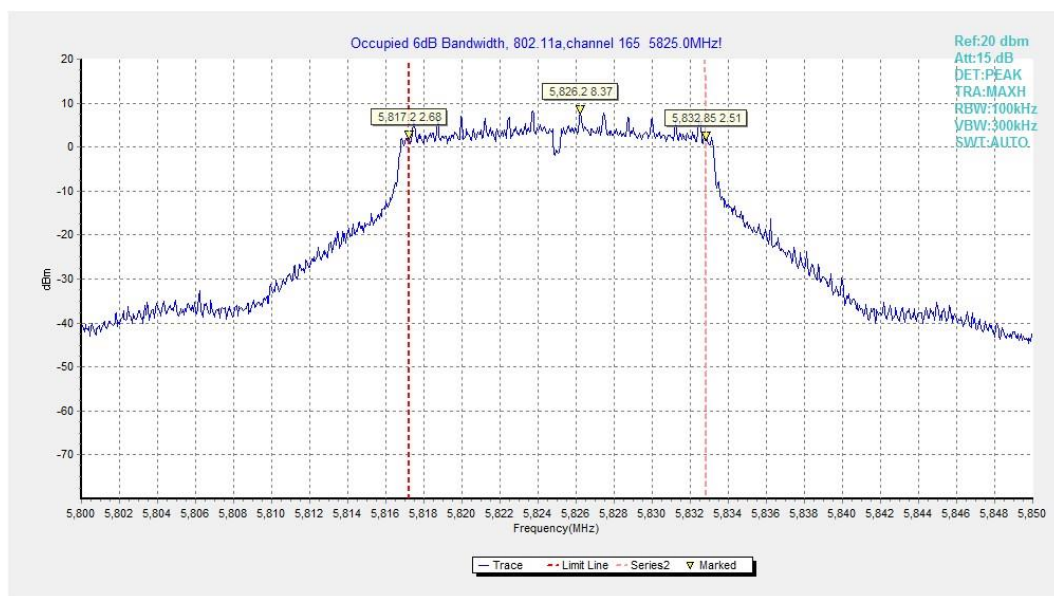


Fig. 3 Occupied 6dB Bandwidth (802.11a, Ch 165)

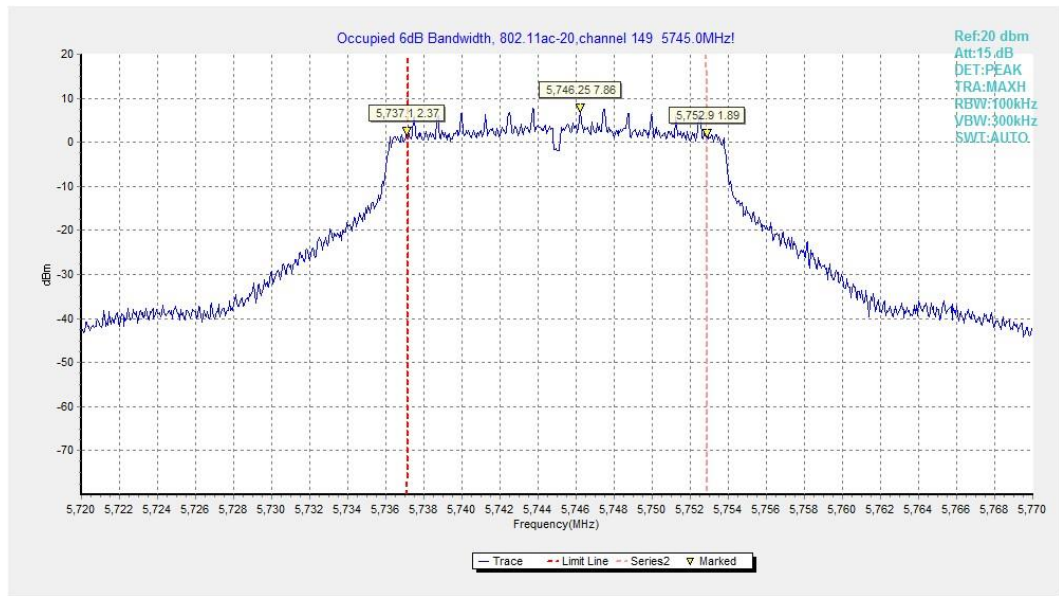


Fig. 4 Occupied 6dB Bandwidth (802.11ac-HT20, Ch 149)

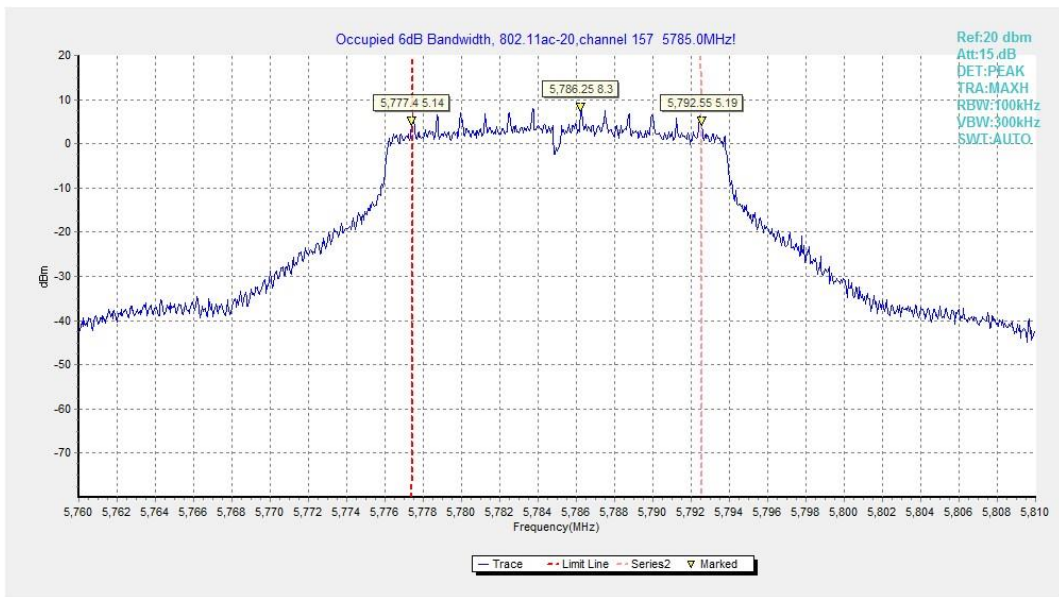


Fig. 5 Occupied 6dB Bandwidth (802.11ac-HT20, Ch 157)

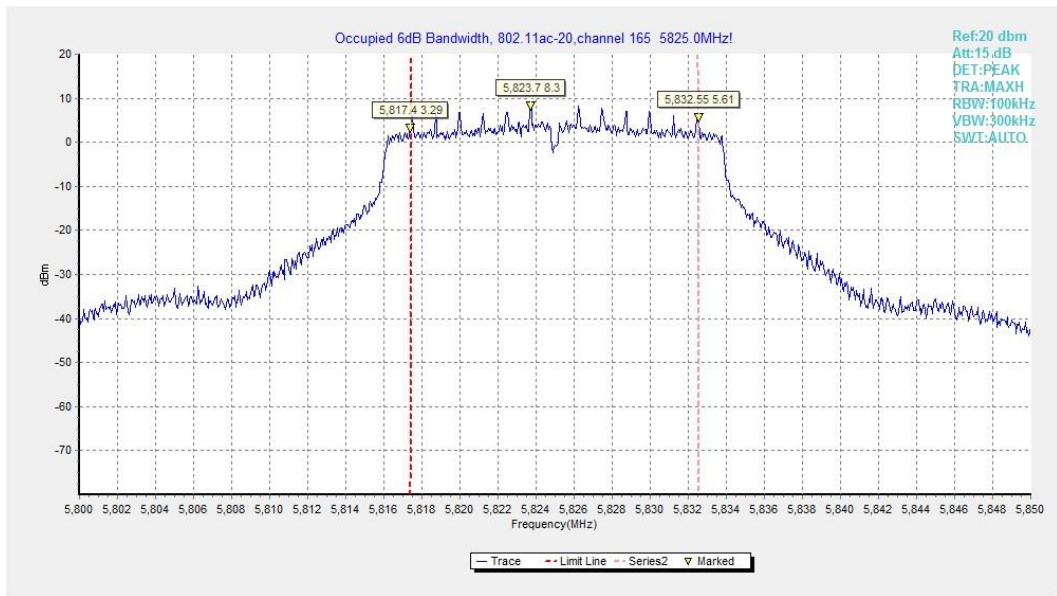


Fig. 6 Occupied 6dB Bandwidth (802.11ac-HT20, Ch 165)

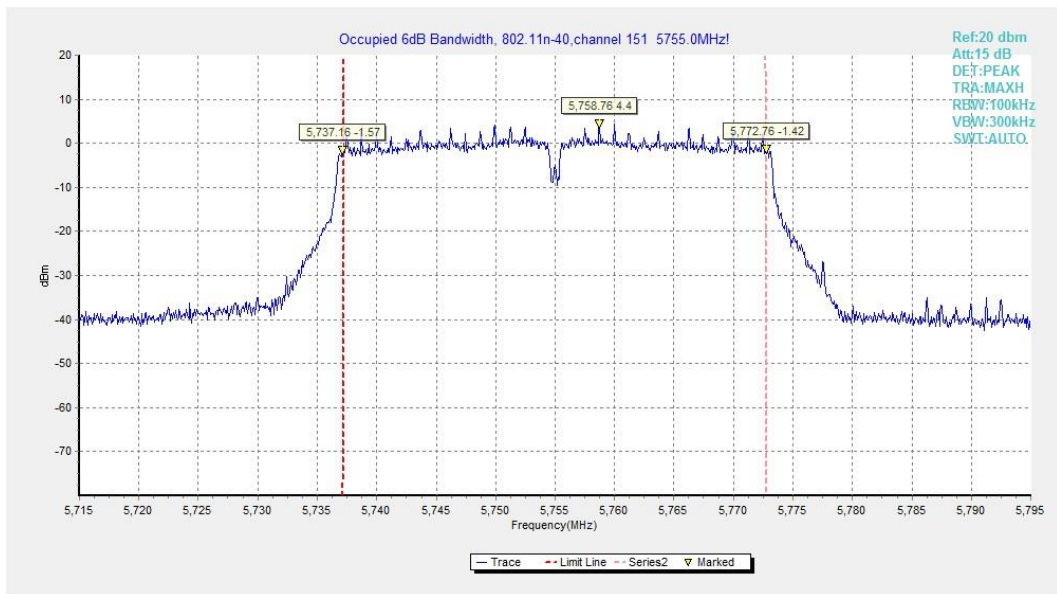


Fig. 7 Occupied 6dB Bandwidth (802.11n-HT40, Ch 151)

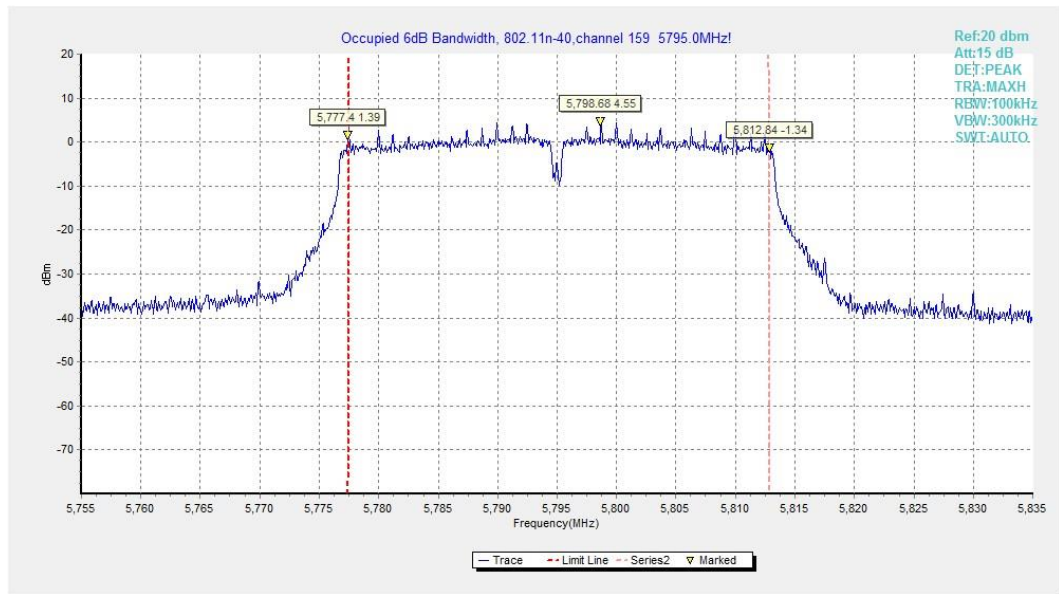


Fig. 8 Occupied 6dB Bandwidth (802.11n-HT40, Ch 159)

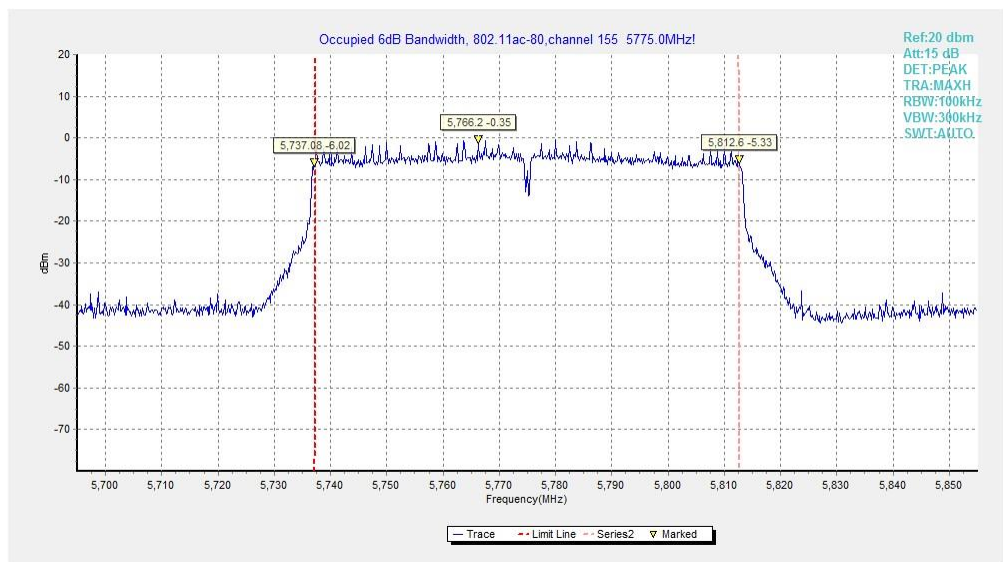


Fig. 9 Occupied 6dB Bandwidth (802.11ac-HT80, Ch 155)

A.5. Transmitter Spurious Emission

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	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

802.11n-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	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

802.11n-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	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	
		26.5 GHz~ 40 GHz	---	P	
		165	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)
5414.400	46.28	-21.17	34.47	32.98	54.00	7.72	V
5443.400	46.19	-21.22	34.41	33.00	54.00	7.81	V
11490.200	37.36	-31.73	38.19	30.90	54.00	16.64	H
17726.100	36.47	-25.68	41.30	20.84	54.00	17.53	V
17795.400	36.36	-25.71	41.30	20.78	54.00	17.64	V
17930.700	36.03	-25.80	41.20	20.63	54.00	17.97	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)
5375.200	46.37	-20.82	34.50	32.69	54.00	7.63	V
5400.800	45.95	-21.05	34.50	32.51	54.00	8.05	V
11569.400	37.06	-32.05	38.41	30.70	54.00	16.94	H
17720.600	36.38	-25.68	41.30	20.76	54.00	17.62	V
17750.300	36.49	-25.68	41.30	20.87	54.00	17.51	H
17983.500	35.95	-25.84	41.20	20.59	54.00	18.06	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)
5370.400	46.31	-20.83	34.50	32.64	54.00	7.69	V
5382.800	46.13	-20.89	34.50	32.52	54.00	7.87	V
11649.700	36.87	-31.42	38.60	29.69	54.00	17.13	V
17740.400	36.35	-25.68	41.30	20.73	54.00	17.65	H
17807.500	36.20	-25.72	41.29	20.63	54.00	17.80	H
17969.200	35.98	-25.83	41.20	20.61	54.00	18.02	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)
5403.400	45.70	-21.08	34.49	32.29	54.00	8.30	V
5416.800	45.61	-21.20	34.47	32.34	54.00	8.39	V
11490.200	36.72	-31.73	38.19	30.26	54.00	17.28	H
17726.100	36.55	-25.68	41.30	20.93	54.00	17.45	H
17749.200	36.60	-25.68	41.30	20.99	54.00	17.40	V
17975.800	36.24	-25.83	41.20	20.87	54.00	17.76	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)
5427.400	45.57	-21.29	34.45	32.42	54.00	8.43	V
5480.200	45.78	-21.02	34.46	32.34	54.00	8.22	V
11569.400	37.27	-32.05	38.41	30.91	54.00	16.73	V
17708.500	36.39	-25.68	41.30	20.77	54.00	17.61	H
17756.900	36.60	-25.69	41.30	20.99	54.00	17.40	V
17997.800	36.75	-25.85	41.20	21.40	54.00	17.25	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)
5410.000	45.60	-21.14	34.48	32.26	54.00	8.40	V
5427.800	45.37	-21.30	34.44	32.22	54.00	8.63	V
11649.700	38.03	-31.42	38.60	30.85	54.00	15.98	V
17720.600	36.47	-25.68	41.30	20.84	54.00	17.53	V
17755.800	36.64	-25.69	41.30	21.02	54.00	17.36	V
17926.300	36.31	-25.79	41.20	20.91	54.00	17.69	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)
5415.200	45.74	-21.18	34.47	32.46	54.00	8.26	V
5429.800	45.48	-21.29	34.44	32.33	54.00	8.52	V
11510.000	36.31	-31.83	38.23	29.92	54.00	17.69	V
17762.400	37.01	-25.69	41.30	21.40	54.00	16.99	V
17835.000	37.07	-25.74	41.26	21.54	54.00	16.93	V
17926.300	37.18	-25.79	41.20	21.77	54.00	16.82	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)
5428.800	45.56	-21.29	34.44	32.41	54.00	8.44	V
5442.800	45.60	-21.22	34.41	32.41	54.00	8.40	V
11589.200	36.70	-31.89	38.47	30.13	54.00	17.30	H
17730.500	36.73	-25.68	41.30	21.11	54.00	17.27	V
17811.900	36.41	-25.72	41.29	20.84	54.00	17.60	V
17985.700	36.63	-25.84	41.20	21.28	54.00	17.37	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)
5425.800	45.51	-21.28	34.45	32.33	54.00	8.50	V
5438.600	45.49	-21.24	34.42	32.31	54.00	8.51	V
11489.100	37.98	-31.73	38.19	31.52	54.00	16.02	V
17726.100	36.32	-25.68	41.30	20.70	54.00	17.68	H
17810.800	35.89	-25.72	41.29	20.32	54.00	18.11	H
17962.600	35.74	-25.82	41.20	20.37	54.00	18.26	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)
5429.400	45.65	-21.29	34.44	32.50	54.00	8.35	V
5446.000	45.68	-21.20	34.41	32.47	54.00	8.32	V
11570.500	37.40	-32.04	38.41	31.03	54.00	16.60	H
17704.100	36.41	-25.68	41.30	20.79	54.00	17.59	H
17763.500	36.53	-25.69	41.30	20.92	54.00	17.47	H
17964.800	36.34	-25.83	41.20	20.97	54.00	17.66	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)
5436.800	45.74	-21.25	34.43	32.56	54.00	8.26	V
5464.000	45.77	-21.11	34.43	32.44	54.00	8.24	V
11649.700	37.53	-31.42	38.60	30.35	54.00	16.47	H
17721.700	36.68	-25.68	41.30	21.06	54.00	17.32	H
17774.500	36.45	-25.70	41.30	20.85	54.00	17.55	H
17969.200	36.59	-25.83	41.20	21.22	54.00	17.41	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)
5423.000	45.59	-21.25	34.45	32.39	54.00	8.41	V
5464.400	45.72	-21.11	34.43	32.39	54.00	8.29	V
11510.000	36.41	-31.83	38.23	30.02	54.00	17.59	H
17744.800	36.86	-25.68	41.30	21.24	54.00	17.14	H
17797.600	36.90	-25.71	41.30	21.31	54.00	17.10	V
17980.200	37.11	-25.84	41.20	21.75	54.00	16.89	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)
5426.000	45.65	-21.28	34.45	32.48	54.00	8.35	V
5445.200	45.71	-21.21	34.41	32.51	54.00	8.29	V
11589.200	35.57	-31.89	38.47	29.00	54.00	18.43	V
17731.600	36.97	-25.68	41.30	21.34	54.00	17.03	V
17876.800	37.06	-25.76	41.22	21.60	54.00	16.94	V
17987.900	37.31	-25.84	41.20	21.95	54.00	16.69	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)
5350.000	46.2	-20.9	34.5	32.65	54.0	7.8	V
5471.600	45.8	-21.1	34.4	32.46	54.0	8.2	V
11549.600	34.5	-32.0	38.3	28.21	54.0	19.5	V
17731.600	36.9	-25.7	41.3	21.29	54.0	17.1	V
17875.700	36.9	-25.8	41.2	21.41	54.0	17.1	H
17964.800	37.1	-25.8	41.2	21.73	54.0	16.9	H

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)
5650.367	61.46	-20.81	34.70	47.56	68.47	7.02	V
5650.136	60.35	-20.81	34.70	46.46	68.30	7.95	H
11490.200	48.90	-31.73	38.19	42.44	74.00	25.10	V
17234.950	49.00	-25.83	41.26	33.57	68.30	19.30	H
17279.500	50.40	-25.85	41.22	35.03	68.30	17.90	V
17480.800	49.17	-25.78	41.20	33.75	68.30	19.13	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)
5749.000	62.40	-20.31	34.90	47.81	68.30	5.90	H
5863.800	63.45	-20.11	35.16	48.41	68.30	4.85	H
11574.900	50.08	-32.01	38.42	43.66	74.00	23.92	H
17354.850	47.75	-25.89	41.20	32.43	68.30	20.55	H
17516.550	48.69	-25.73	41.20	33.22	68.30	19.61	H
17643.600	49.14	-25.68	41.24	33.57	68.30	19.16	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)
5924.956	60.27	-20.35	35.25	45.37	68.23	7.96	H
5924.980	60.51	-20.35	35.25	45.61	68.21	7.70	V
11650.250	49.30	-31.42	38.60	42.11	74.00	24.71	V
17450.000	47.36	-25.82	41.20	31.98	68.30	20.94	H
17547.000	49.44	-25.70	41.20	33.94	68.30	18.86	V
17670.550	50.28	-25.68	41.27	34.68	68.30	18.02	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)
5650.287	59.29	-20.81	34.70	45.39	68.41	9.13	H
5650.129	59.33	-20.81	34.70	45.44	68.30	8.96	H
11487.450	47.85	-31.72	38.19	41.38	74.00	26.15	V
17217.900	51.44	-25.83	41.28	35.98	68.30	16.86	H
17308.100	50.42	-25.87	41.20	35.08	68.30	17.88	V
17395.000	49.61	-25.89	41.20	34.30	68.30	18.69	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)
5718.000	62.45	-20.49	34.84	48.10	68.30	5.85	H
5852.600	64.05	-20.02	35.11	48.96	68.30	4.25	H
11569.400	49.38	-32.05	38.41	43.02	74.00	24.62	H
17354.850	48.72	-25.89	41.20	33.41	68.30	19.58	V
17337.250	50.20	-25.88	41.20	34.88	68.30	18.10	V
17507.750	50.23	-25.75	41.20	34.77	68.30	18.07	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)
5924.863	60.70	-20.35	35.25	45.80	68.30	7.60	V
5924.935	59.81	-20.35	35.25	44.91	68.25	8.44	H
11650.250	48.80	-31.42	38.60	41.61	74.00	25.21	H
17474.750	46.77	-25.79	41.20	31.36	68.30	21.53	H
17575.950	49.00	-25.68	41.20	33.48	68.30	19.30	H
17672.200	49.39	-25.68	41.27	33.80	68.30	18.91	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)
5650.107	59.65	-20.81	34.70	45.75	68.28	8.63	V
5650.230	60.64	-20.81	34.70	46.74	68.37	7.73	H
11510.000	48.65	-31.83	38.23	42.25	74.00	25.35	H
17265.200	49.57	-25.85	41.23	34.18	68.30	18.73	V
17520.950	50.50	-25.73	41.20	35.02	68.30	17.80	H
17632.500	50.35	-25.68	41.23	34.79	68.30	17.95	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)
5924.906	59.49	-20.35	35.25	44.59	68.27	8.78	V
5924.978	59.35	-20.35	35.25	44.46	68.22	8.86	V
11589.750	48.55	-31.89	38.47	41.97	74.00	25.45	V
17385.100	48.46	-25.90	41.20	33.16	68.30	19.84	H
17437.500	49.47	-25.84	41.20	34.10	68.30	18.83	H
17612.800	50.39	-25.68	41.21	34.85	68.30	17.91	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)
5650.231	60.25	-20.81	34.70	46.35	68.37	8.12	H
5650.301	59.50	-20.81	34.70	45.60	68.42	8.92	H
11488.000	49.65	-31.72	38.19	43.18	74.00	24.35	V
17232.200	50.94	-25.83	41.27	35.50	68.30	17.36	H
17337.250	50.34	-25.88	41.20	35.02	68.30	17.96	V
17649.650	50.45	-25.68	41.25	34.88	68.30	17.85	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)
5714.400	62.05	-20.51	34.83	47.73	68.30	6.25	H
5867.800	63.98	-20.14	35.17	48.94	68.30	4.32	H
11567.200	48.58	-32.07	38.40	42.25	74.00	25.42	V
17354.800	49.10	-25.89	41.20	33.79	68.30	19.20	V
17463.750	49.59	-25.80	41.20	34.19	68.30	18.72	V
17534.150	49.46	-25.71	41.20	33.97	68.30	18.84	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)
5924.885	59.72	-20.35	35.25	44.82	68.29	8.56	H
5924.978	60.05	-20.35	35.25	45.15	68.22	8.17	H
11649.700	49.03	-31.42	38.60	41.85	74.00	24.97	V
17474.750	47.36	-25.79	41.20	31.95	68.30	20.94	H
17582.000	48.98	-25.68	41.20	33.46	68.30	19.32	H
17665.050	49.08	-25.68	41.27	33.50	68.30	19.22	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)
5650.100	59.97	-20.81	34.70	46.07	68.27	8.31	H
5650.143	59.80	-20.81	34.70	45.90	68.31	8.51	V
11510.000	47.70	-31.83	38.23	41.30	74.00	26.30	H
17265.200	49.46	-25.85	41.23	34.07	68.30	18.84	H
17316.900	51.16	-25.87	41.20	35.83	68.30	17.14	H
17359.800	50.63	-25.89	41.20	35.32	68.30	17.67	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)
5924.971	59.42	-20.35	35.25	44.52	68.22	8.80	V
5925.000	60.85	-20.35	35.25	45.95	68.20	7.35	H
11590.300	48.32	-31.88	38.47	41.73	74.00	25.68	V
17385.100	49.16	-25.90	41.20	33.86	68.30	19.14	H
17420.850	50.58	-25.86	41.20	35.23	68.30	17.72	H
17507.750	49.53	-25.75	41.20	34.08	68.30	18.77	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)
5924.942	59.8	-20.4	35.3	44.93	68.2	8.4	V
5924.971	59.7	-20.4	35.2	44.78	68.2	8.5	V
11550.150	47.2	-32.0	38.4	40.88	74.0	26.8	V
17325.150	49.9	-25.9	41.2	34.57	68.3	18.4	H
17518.750	51.7	-25.7	41.2	36.20	68.3	16.6	V
17670.000	51.5	-25.7	41.3	35.86	68.3	16.8	H

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:

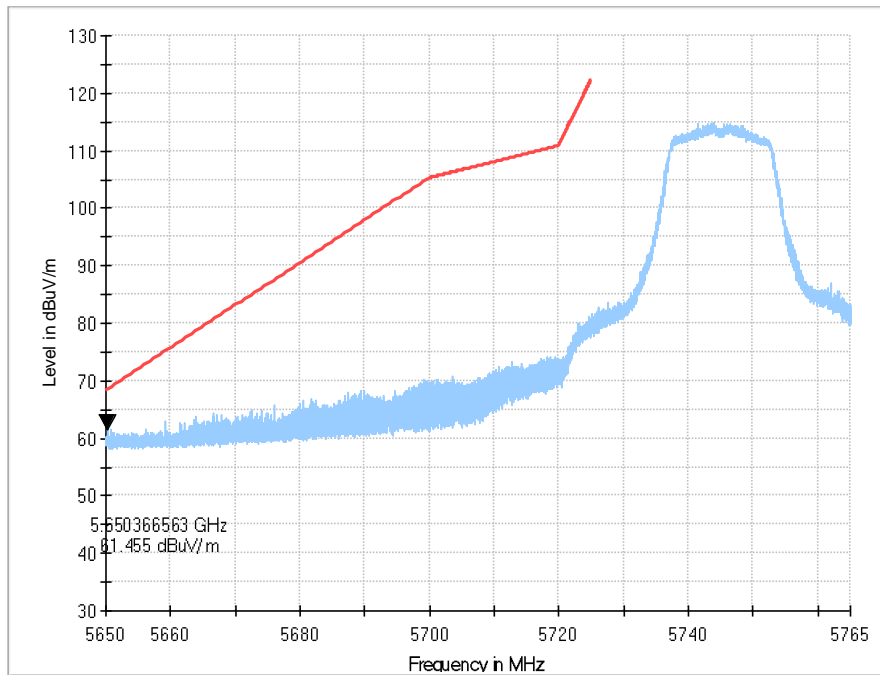


Fig. 10 Band Edges (802.11a Ch149,5745MHz)

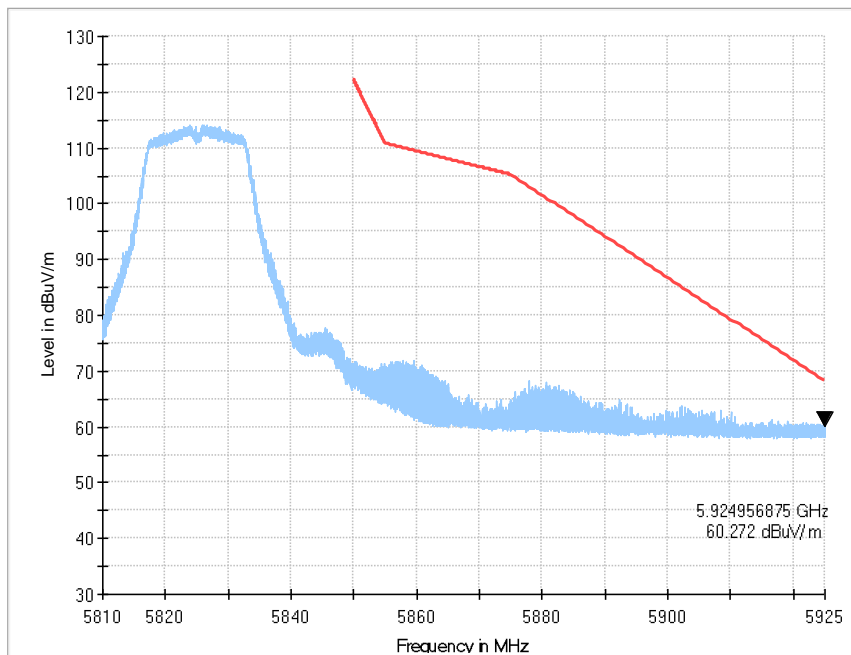


Fig. 11 Band Edges (802.11a Ch165, 5825MHz)

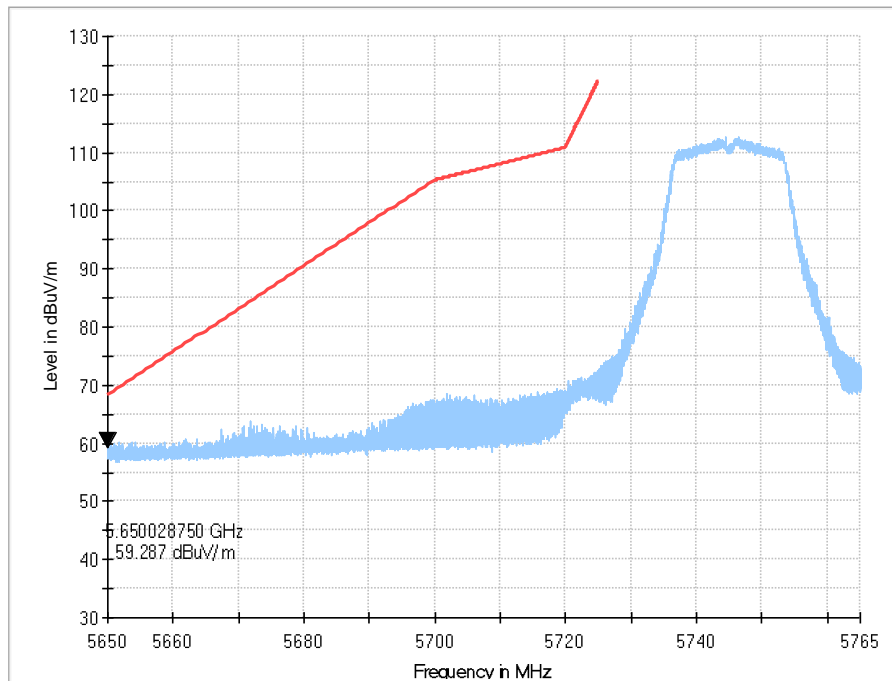


Fig. 12 Band Edges (802.11n-HT20 Ch149, 5745MHz)

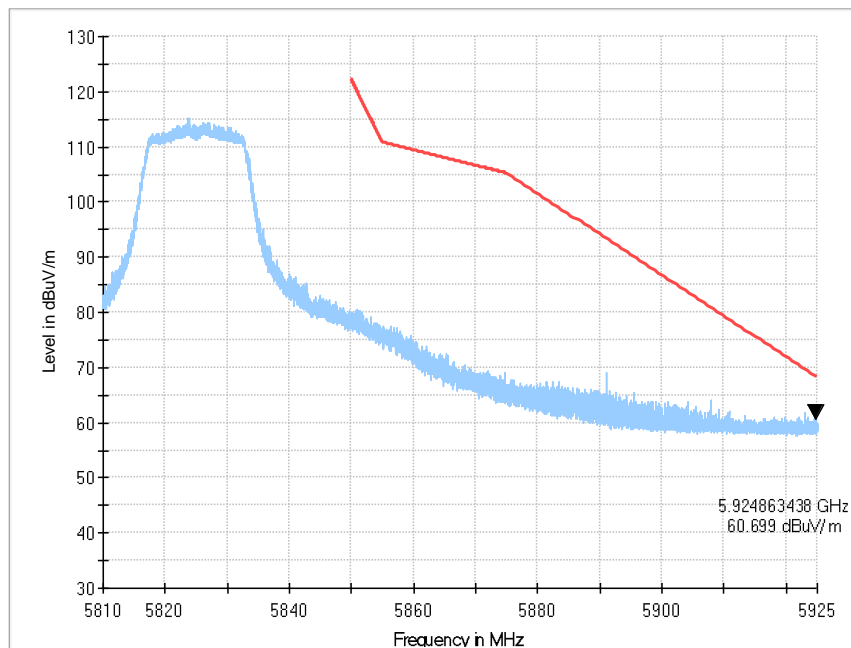


Fig. 13 Band Edges (802.11n-HT20 Ch165, 5825MHz)

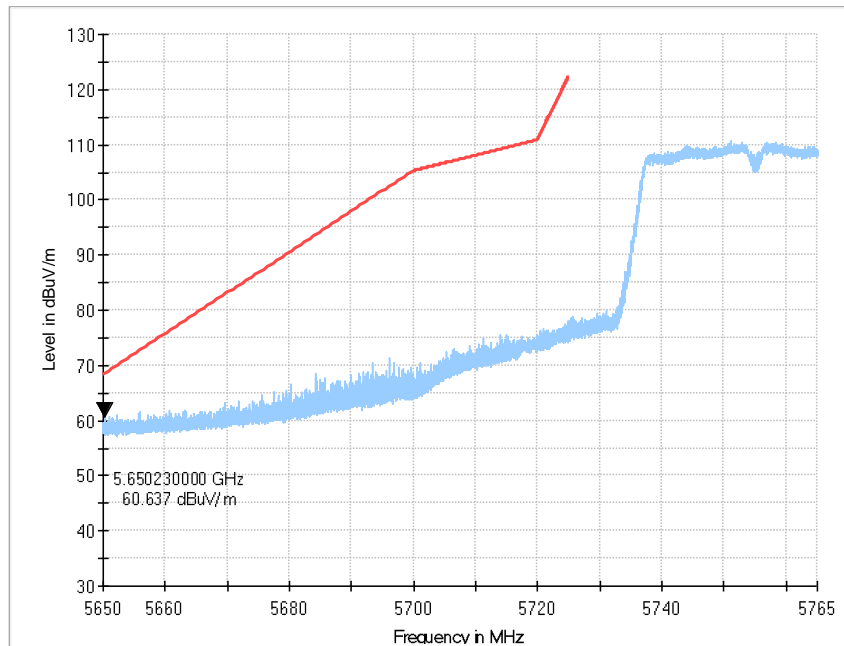


Fig. 14 Band Edges (802.11n-HT40 Ch151, 5755MHz)

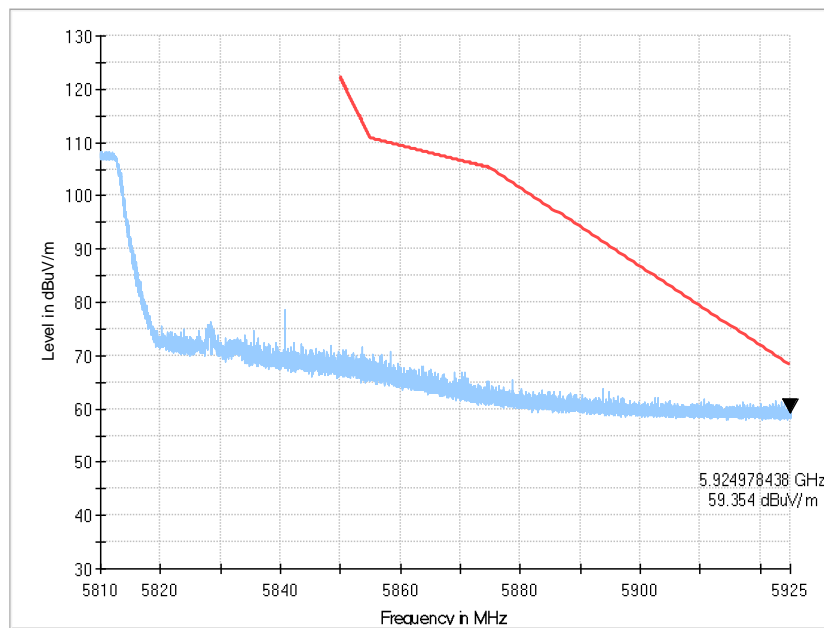


Fig. 15 Band Edges (802.11n-HT40 Ch159, 5795MHz)

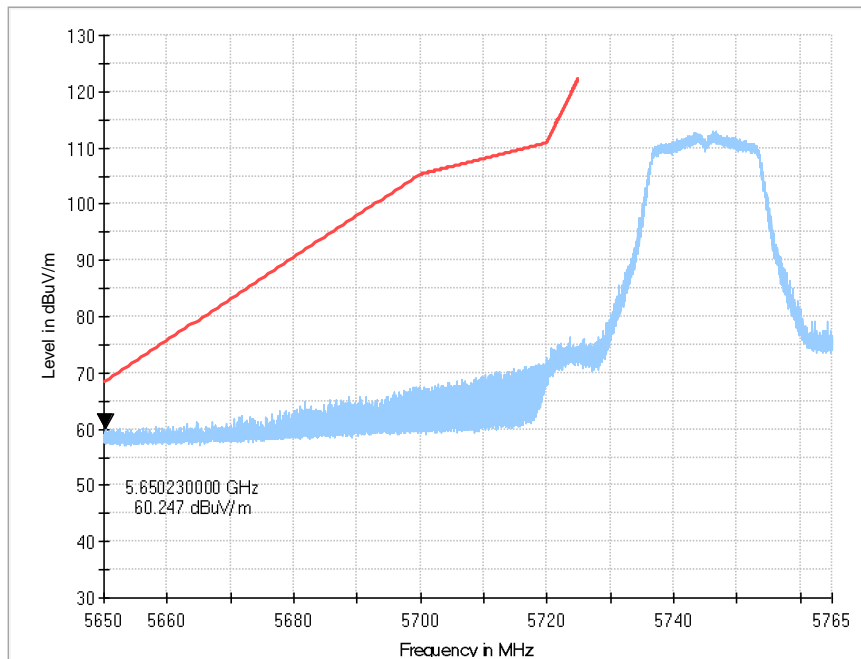


Fig. 16 Band Edges (802.11ac-HT20 Ch149, 5745MHz)

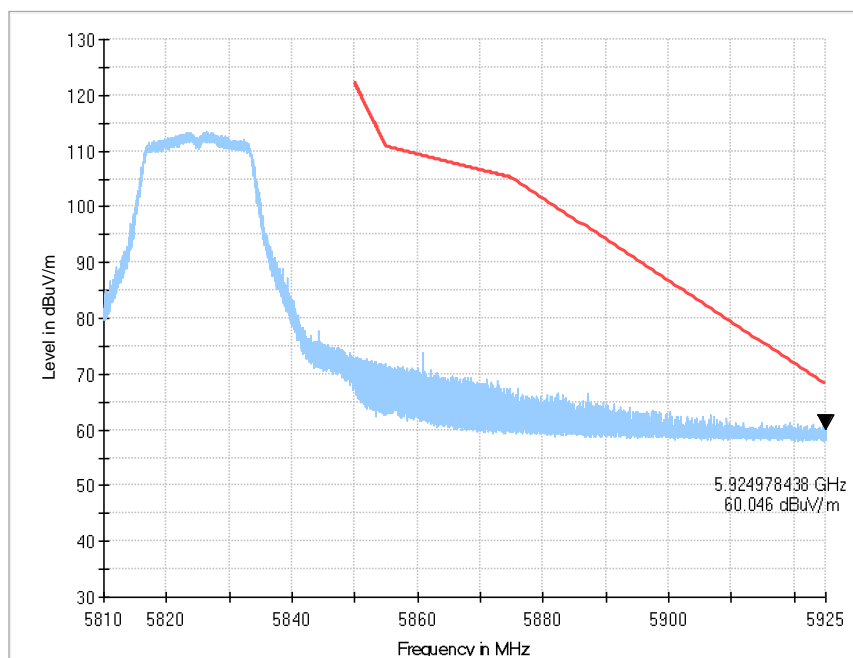


Fig. 17 Band Edges (802.11ac-HT20 Ch165, 5825MHz)

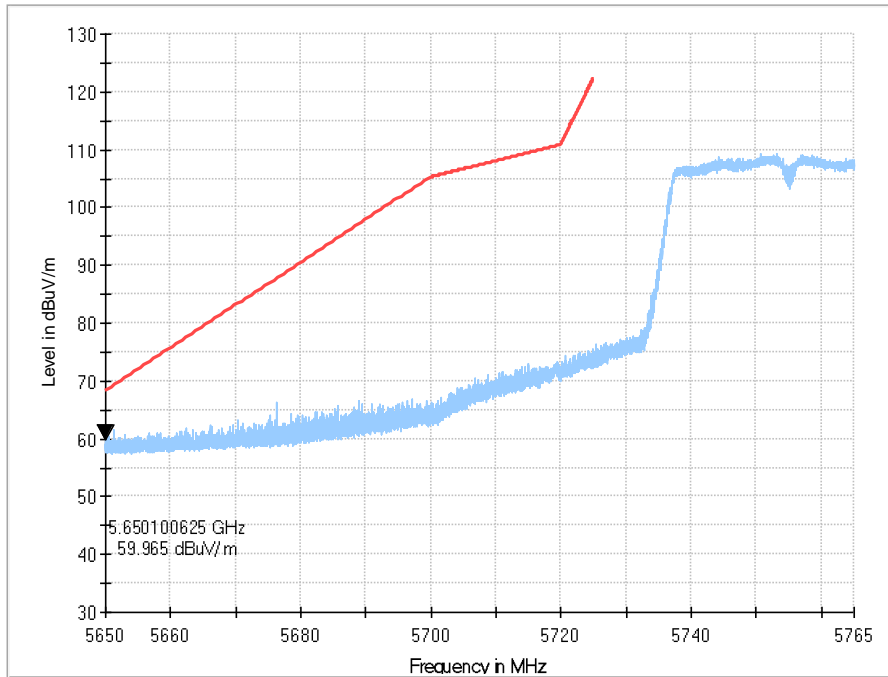


Fig. 18 Band Edges (802.11ac-HT40 Ch151, 5755MHz)

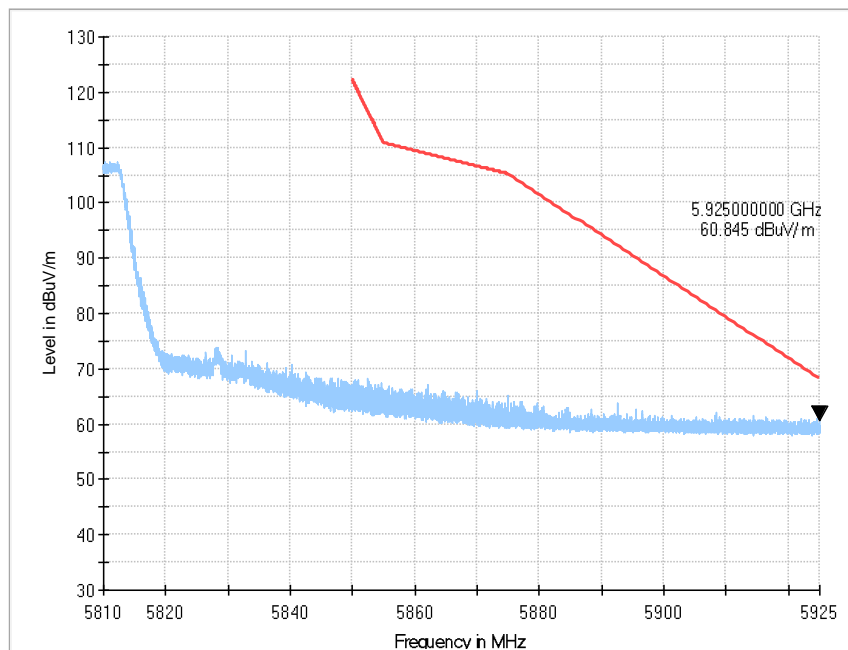


Fig. 19 Band Edges (802.11ac-HT40 Ch159, 5795MHz)

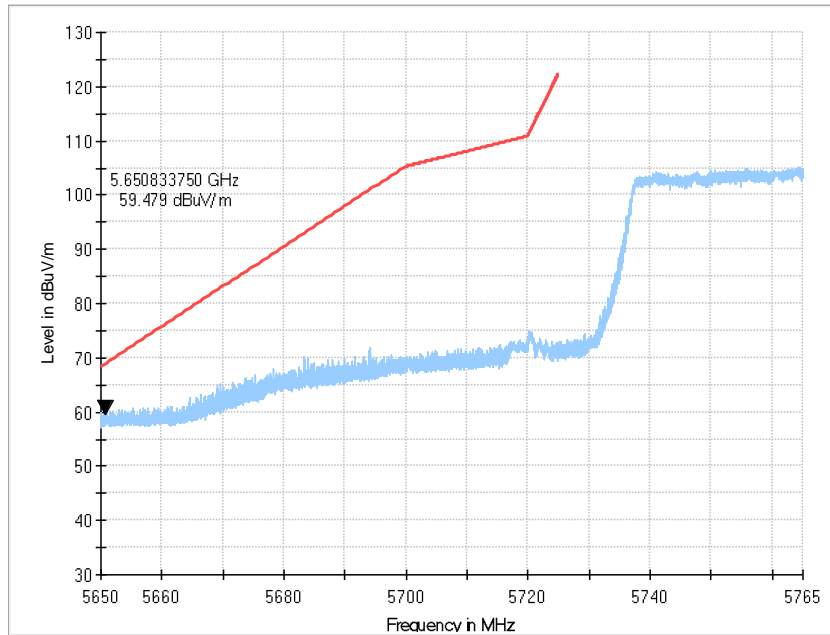


Fig. 20 Band Edges (802.11ac-HT80 Ch155, 5775MHz)

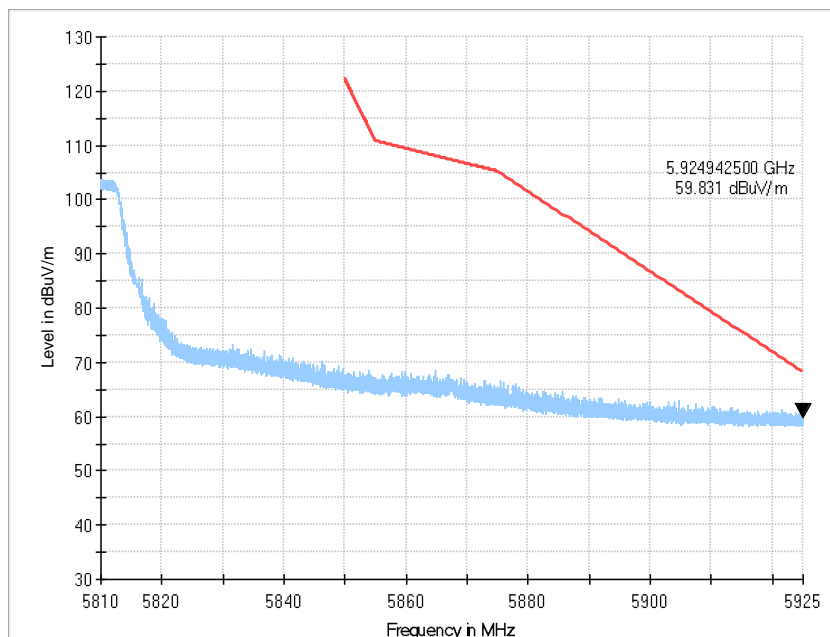


Fig. 21 Band Edges (802.11ac-HT80, 5775MHz)

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:

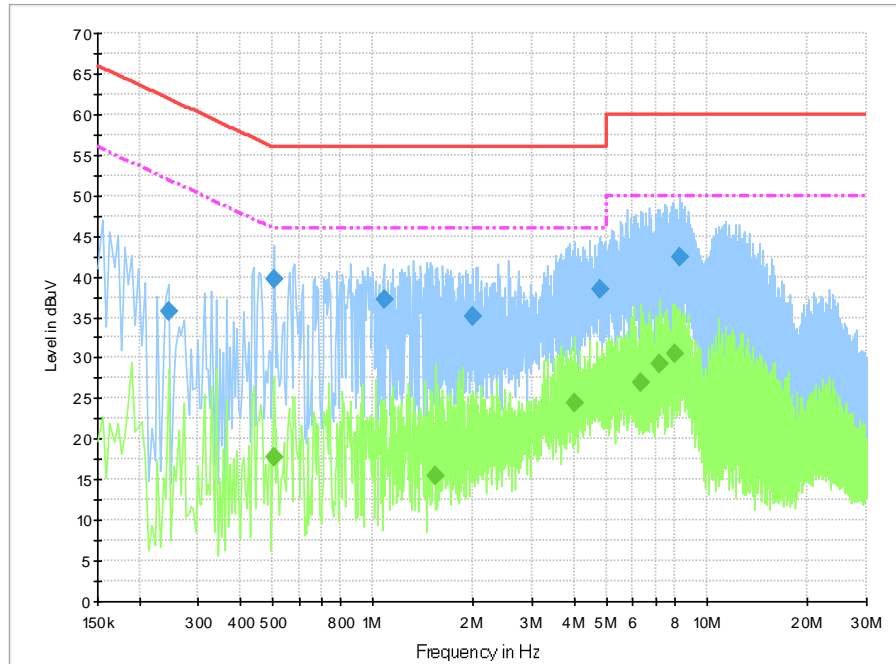


Fig. 22 AC Power line Conducted Emission-802.11a

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
0.244500	35.7	2000.	9.000	On	L1	19.8	26.2	61.9	
0.505500	39.7	2000.	9.000	On	L1	19.8	16.3	56.0	
1.077000	37.3	2000.	9.000	On	N	19.7	18.7	56.0	
1.986000	35.1	2000.	9.000	On	N	19.6	20.9	56.0	
4.758000	38.5	2000.	9.000	On	L1	19.7	17.5	56.0	
8.259000	42.4	2000.	9.000	On	N	19.7	17.6	60.0	

Final Result 2

Frequency (MHz)	QuasiPeak (dBµV)	Meas. Time	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)	Comment
0.505500	17.8	2000.	9.000	On	L1	19.8	28.2	46.0	
1.545000	15.4	2000.	9.000	On	L1	19.6	30.6	46.0	
3.997500	24.4	2000.	9.000	On	L1	19.6	21.6	46.0	
6.328500	26.9	2000.	9.000	On	N	19.7	23.1	50.0	
7.215000	29.2	2000.	9.000	On	L1	19.7	20.8	50.0	
8.002500	30.4	2000.	9.000	On	N	19.7	19.6	50.0	

Idle:

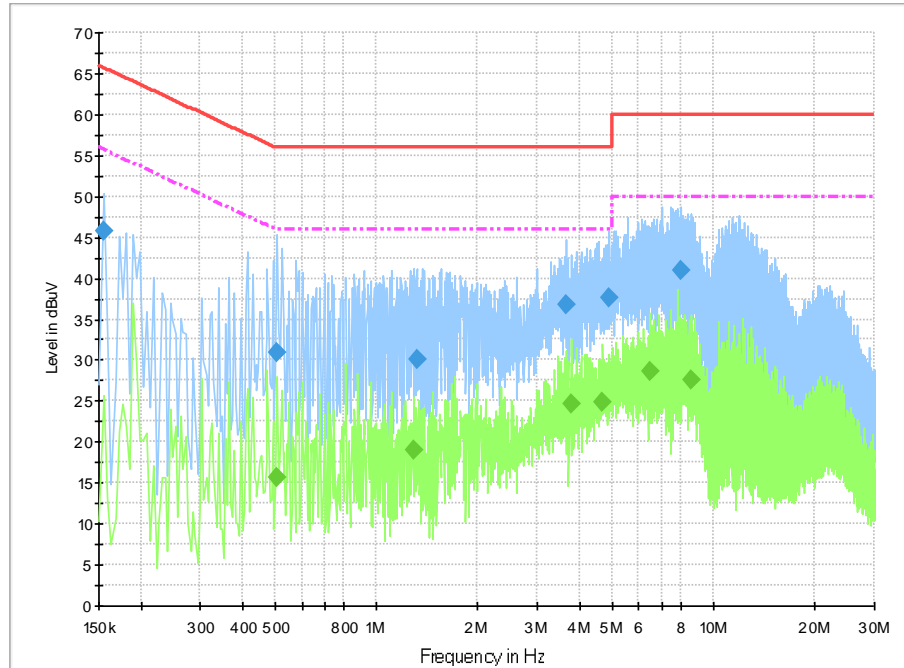


Fig. 23 AC Power line Conducted Emission-Idle

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
0.154500	45.8	2000.	9.000	On	L1	20.0	20.0	65.8	
0.505500	31.0	2000.	9.000	On	N	19.8	25.0	56.0	
1.315500	30.2	2000.	9.000	On	L1	19.6	25.8	56.0	
3.642000	36.8	2000.	9.000	On	L1	19.6	19.2	56.0	
4.902000	37.7	2000.	9.000	On	L1	19.7	18.3	56.0	
7.998000	41.0	2000.	9.000	On	L1	19.7	19.0	60.0	

Final Result 2

Frequency (MHz)	QuasiPeak (dBμV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)	Comment
0.505500	15.6	2000.0	9.000	On	N	19.8	30.4	46.0	
1.293000	19.0	2000.0	9.000	On	N	19.6	27.0	46.0	
3.772500	24.8	2000.0	9.000	On	N	19.6	21.2	46.0	
4.695000	24.8	2000.0	9.000	On	N	19.7	21.2	46.0	
6.450000	28.5	2000.0	9.000	On	N	19.7	21.5	50.0	
8.547000	27.7	2000.0	9.000	On	N	19.7	22.3	50.0	

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>	
2022-10-01 through 2023-09-30 <i>Effective Dates</i>	  <i>For the National Voluntary Laboratory Accreditation Program</i>

*** END OF REPORT BODY ***