



FCC PART 15C TEST REPORT No.I21Z60790-IOT06

for

Honor Device Co., Ltd.

Smart Phone

NTH-NX9

With

FCC ID: 2AYGCNTH-NX9

Hardware Version: HN2NTHM

Software Version: 4.2.0.107 (C900E107R1P2)

Issued Date: 2021-08-20

Note:

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REPORT HISTORY

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I21Z60790-IOT06	Rev.0	1st edition	2021-08-20
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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

Location 1: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

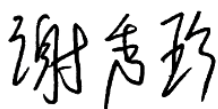
Relative Humidity: 20-75%

1.4. Project date

Testing Start Date: 2021-05-10

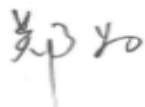
Testing End Date: 2021-08-20

1.5. Signature



Xie Xiuzhen

(Prepared this test report)



Zheng Wei

(Reviewed this test report)



Hu Xiaoyu

(Approved this test report)

2. CLIENT INFORMATION

2.1. Applicant Information

Company Name: Honor Device Co., Ltd.
Address: Shum Yip Sky Park, No. 8089, Hongli West Road, Shenzhen,
Guangdong, China
City: Shenzhen
Postal Code: /
Country: China
Telephone: 0755-61886688
Fax: /

2.2. Manufacturer Information

Company Name: Honor Device Co., Ltd.
Address: Shum Yip Sky Park, No. 8089, Hongli West Road, Shenzhen,
Guangdong, China
City: Shenzhen
Postal Code: /
Country: China
Telephone: 0755-61886688
Fax: /

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

3.1. About EUT

Description	Smart Phone
Model name	NTH-NX9
FCC ID	2AYGCNTH-NX9
WLAN Frequency Band	ISM Band: 5725MHz~5850MHz
Type of modulation	OFDM
Nominal voltages	3.87V
Maximum voltages	4.45V
Minimum voltages	3.6V

3.2. Internal Identification of EUT used during the test

EUT ID*	IMEI	HW Version	SW Version
EUT1	861997050026090/ 861997050029193	HN2NTHM	4.2.0.107 (C900E107R1P2)
EUT2	861997050038418/ 861997050042501	HN2NTHM	4.2.0.107 (C900E107R1P2)
EUT3	861997050038426	HN2NTHM	4.2.0.107 (C900E107R1P2)
EUT4	AXPM011428000074	HN2NTHM	4.2.0.107 (C900E107R1P2)

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

3.3. Internal Identification of AE used during the test

AE ID*	Description	SN	Note
AE1	Battery	/	EUT1
AE9	Battery	/	EUT2
AE2	Charger	/	NEW
AE3	Charger	/	OLD
AE4	USB Cable	/	LUXSHARE
AE5	USB Cable	/	Mingji
AE6	Headset	/	Foster
AE7	Headset	/	Lianchuang
AE8	Headset	/	Quancheng

AE1

Model	HB476489EFW
Manufacturer	Sunwoda
Capacitance	4200mAh
Nominal voltage	3.87V

AE9

Model	HB476489EFW
Manufacturer	SCUD
Capacitance	4200mAh
Nominal voltage	3.87V

AE2

Model	HW-110600X00
Manufacturer	Honor Device Co., Ltd
OUTPUT	5V DC 2A OR 10V DC 4A OR 11V DC 6A MAX
SN	YF91YEM3500036
Note	NEW

AE3

Model	HW-110600X00
Manufacturer	Honor Device Co., Ltd
OUTPUT	5V DC 2A OR 10V DC 4A OR 11V DC 6A MAX
SN	YF91LBLBL00158
Note	OLD

AE4

Model	L99UC139-CS-H
Manufacturer	LUXSHARE
Length	/

AE5

Model	213-01011-0
Manufacturer	Mingji
Length	/

AE6

Model	640958
Manufacturer	Foster
Length	/

AE7

Model	MEND1632B729012
Manufacturer	Lianchuang
Length	/

AE8

Model	1331-3301-6001-TC-347
Manufacturer	Quancheng
Length	/

*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;	2019
	15.209 Radiated emission limits, general requirements;	
	15.407 General technical requirements	
ANSI C63.10	Methods of Measurement of Radio-Noise Emissions from	
	Low-Voltage Electrical and Electronic Equipment in the	2013
	Range of 9 kHz to 40 GHz	
UNII: KDB 789033 D02	General U-NII Test Procedures New Rules v02r01	2017-12
KDB 558074 D01	Federal Communications Commission Office of	
	Engineering and Technology Laboratory Division	
	GUIDANCE FOR COMPLIANCE MEASUREMENTS ON	
	DIGITAL TRANSMISSION SYSTEM, FREQUENCY	2019
	HOPPING SPREAD SPECTRUM SYSTEM, AND HYBRID	
	SYSTEM DEVICES OPERATING UNDER SECTION	
	15.247 OF THE FCC RULES	

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/manufacture 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	2022-05-24
2	Vector Signal Analyzer	FSW67	104051	Rohde & Schwarz	1 year	2021-12-08
3	LISN	ENV216	101459	Rohde & Schwarz	1 year	2022-03-22
4	Test Receiver	ESCI	100766	Rohde & Schwarz	1 year	2022-03-09
5	Shielding Room	S81	/	ETS-Lindgren	/	/

Radiated emission test system

No.	Equipment	Model	Serial Number	Manufacturer	Calibration Period	Calibration Due date
1	Antenna	3117	139065	ETS	1 year	2021-09-22
2	Antenna	VULB 9163	9163-482	SCHWARZBECK	1 year	2021-11-04
3	Test Receiver	ESU26	100376	R&S	1 year	2021-09-04
4	Test Receiver	FSV40	101047	R&S	1 year	2022-06-02
5	Universal Radio Communication Tester	CMW500	159408	R&S	1 year	2022-03-08
6	Test Receiver	FSV30	101525	R&S	1 year	2022-02-20
7	Antenna	LB-7180-NF	J203001300005	A-INFO	1 year	2022-02-28
8	Antenna	HFH2-Z2	829324	R&S	1 year	2021-12-10
9	Antenna	LB-180400-25-C-KF	2110084000006	A-INFO	1 year	2022-02-28
10	Anechoic Chamber	FACT-3	Ct000332-1074	ETS	1 year	2022-01-21

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	/
$30\text{MHz} \leq f \leq 1\text{GHz}$	5.84
$1\text{GHz} \leq f \leq 18\text{GHz}$	5.82
$18\text{GHz} \leq f \leq 40\text{GHz}$	3.78

8.6. AC Power-line Conducted Emission

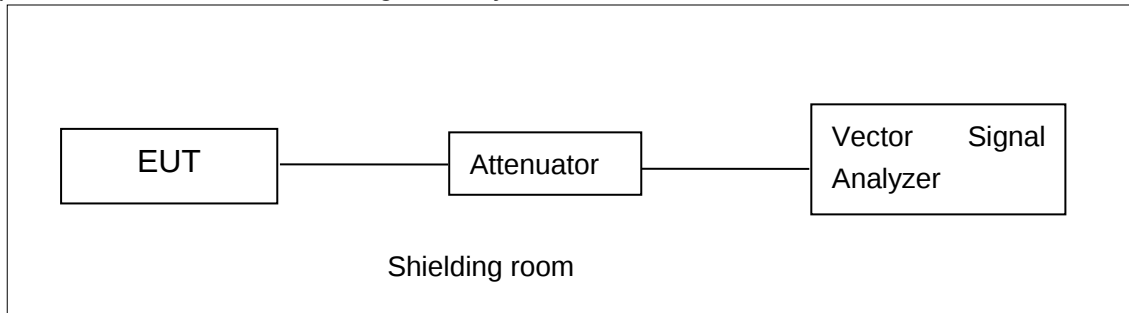
Measurement Uncertainty : 3.1dB,k=2

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

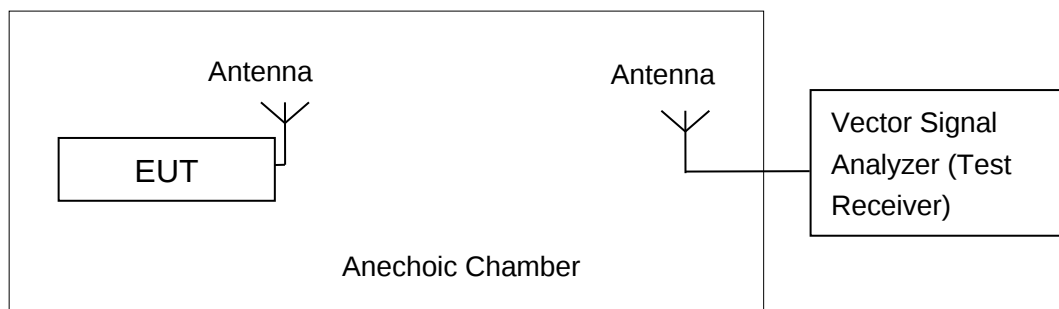


A.1.2. Radiated Emission Measurements

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 0.7dBi(core0) 0.4dBi(core1) and the value is supplied by the applicant or manufacturer.

A.2.2. Maximum Average Output Power-Conducted

Measurement Results:

SISO-core0

802.11a mode

Mode	Data Rate (Mbps)	Test Result (dBm)		
		5745MHz (Ch149)	5785MHz (Ch157)	5825MHz (Ch165)
802.11a	6	14.56	13.91	14.02

The data rate 6Mbps is selected as worse 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	14.24	13.53	13.67

The data rate MCS0 is selected as worse 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	14.21	13.54	13.63

The data rate MCS0 is selected as worse 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	14.72	13.43

The data rate MCS0 is selected as worse 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	14.73	14.40

The data rate MCS0 is selected as worse 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	13.05

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

802.11ax-HE20 mode

Mode	Data Rate (Index)	Test Result (dBm)		
		5745MHz (Ch149)	5785MHz (Ch157)	5825MHz (Ch165)
802.11ax(20MHz)	MCS0	14.49	13.77	13.89

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

802.11ax-HE40 mode

Mode	Data Rate (Index)	Test Result (dBm)	
		5755MHz (Ch151)	5795MHz (Ch159)
802.11ax(40MHz)	MCS0	14.44	14.14

802.11ax-HT80 mode

Mode	Data Rate (Index)	Test Result (dBm)
		5775MHz (Ch155)
802.11ax(80MHz)	MCS0	13.89

802.11ax-HE20 mode

Mode	Data Rate (Index)	Test Result (dBm)		
		5745MHz (Ch149)	5785MHz (Ch157)	5805MHz (Ch161)
802.11ax-HE20 (RU26-left)	MCS0	13.39	12.57	13.02
802.11ax-HE20	MCS0	13.54	12.68	12.68

(RU26-right)				
802.11ax-HE20 (RU52-left)	MCS0	13.22	12.44	12.87
802.11ax-HE20 (RU52-right)	MCS0	13.87	12.57	12.58
802.11ax-HE20 (RU106-left)	MCS0	13.35	12.58	12.95
802.11ax-HE20 (RU106-right)	MCS0	13.45	12.67	12.74
802.11ax-HE20 (RU242)	MCS0	13.32	12.55	12.79

802.11ax-HE40 mode

Mode	Data Rate (Index)	Test Result (dBm)	
		5755MHz (Ch151)	5795MHz (Ch159)
802.11ax-HE40 (RU26-left)	MCS0	13.24	12.53
802.11ax-HE40 (RU26-right)	MCS0	13.37	12.48
802.11ax-HE40 (RU52-left)	MCS0	13.35	12.58
802.11ax-HE40 (RU52-right)	MCS0	13.40	12.55
802.11ax-HE40 (RU106-left)	MCS0	13.45	12.67
802.11ax-HE40 (RU106-right)	MCS0	13.52	12.74
802.11ax-HE40 (RU242-left)	MCS0	13.32	12.56
802.11ax-HE40 (RU242-right)	MCS0	13.34	12.61
802.11ax-HE40 (RU484)	MCS0	13.29	12.56

802.11ax-HE80 mode

Mode	Data Rate (Index)	Test Result (dBm)
		5775MHz (Ch155)
802.11ax-HE80 (RU26-left)	MCS0	12.94
802.11ax-HE80 (RU26-right)	MCS0	14.78
802.11ax-HE80	MCS0	12.94

(RU52-left)		
802.11ax-HE80 (RU52-right)	MCS0	12.97
802.11ax-HE80 (RU106-left)	MCS0	13.04
802.11ax-HE80 (RU106-right)	MCS0	13.08
802.11ax-HE80 (RU242-left)	MCS0	13.03
802.11ax-HE80 (RU242-right)	MCS0	13.16
802.11ax-HE80 (RU484-left)	MCS0	12.86
802.11ax-HE80 (RU484-right)	MCS0	12.65
802.11ax-HE80 (RU996)	MCS0	12.80

SISO-core1

802.11a mode

Mode	Data Rate (Mbps)	Test Result (dBm)		
		5745MHz (Ch149)	5785MHz (Ch157)	5825MHz (Ch165)
802.11a	6	17.72	18.01	17.96

The data rate 6Mbps is selected as worse 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	16.94	17.25	17.09

The data rate MCS0 is selected as worse 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	17.14	16.64	17.48

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

802.11n-HT40 mode

Mode	Data	Test Result (dBm)
------	------	-------------------

	Rate (Index)	5755MHz (Ch151)	5795MHz (Ch159)
802.11n(40MHz)	MCS0	17.79	17.76

The data rate MCS0 is selected as worse 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	18.22	18.16

The data rate MCS0 is selected as worse 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	16.49

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

802.11ax-HE20 mode

Mode	Data Rate (Index)	Test Result (dBm)		
		5745MHz (Ch149)	5785MHz (Ch157)	5825MHz (Ch165)
802.11ax(20MHz)	MCS0	17.21	17.39	17.26

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

802.11ax-HE40 mode

Mode	Data Rate (Index)	Test Result (dBm)	
		5755MHz (Ch151)	5795MHz (Ch159)
802.11ax(40MHz)	MCS0	16.70	16.76

802.11ax-HT80 mode

Mode	Data Rate (Index)	Test Result (dBm)
		5775MHz (Ch155)
802.11ax(80MHz)	MCS0	16.35

802.11ax-HE20 mode

Mode	Data Rate (Index)	Test Result (dBm)		
		5745MHz (Ch149)	5785MHz (Ch157)	5805MHz (Ch161)
802.11ax-HE20 (RU26-left)	MCS0	13.98	14.24	13.95
802.11ax-HE20 (RU26-right)	MCS0	13.76	13.77	13.73
802.11ax-HE20 (RU52-left)	MCS0	13.88	14.11	13.84
802.11ax-HE20 (RU52-right)	MCS0	13.64	13.67	13.65
802.11ax-HE20 (RU106-left)	MCS0	14.08	14.29	13.85
802.11ax-HE20 (RU106-right)	MCS0	13.93	13.76	13.68
802.11ax-HE20 (RU242)	MCS0	13.95	13.88	13.71

802.11ax-HE40 mode

Mode	Data Rate (Index)	Test Result (dBm)	
		5755MHz (Ch151)	5795MHz (Ch159)
802.11ax-HE40 (RU26-left)	MCS0	14.33	14.31
802.11ax-HE40 (RU26-right)	MCS0	13.91	13.66
802.11ax-HE40 (RU52-left)	MCS0	14.07	14.04
802.11ax-HE40 (RU52-right)	MCS0	13.99	13.71
802.11ax-HE40 (RU106-left)	MCS0	14.35	14.51
802.11ax-HE40 (RU106-right)	MCS0	14.01	13.77
802.11ax-HE40 (RU242-left)	MCS0	14.14	14.33
802.11ax-HE40 (RU242-right)	MCS0	13.95	13.71
802.11ax-HE40 (RU484)	MCS0	14.02	14.05

802.11ax-HE80 mode

Mode	Data Rate (Index)	Test Result (dBm)
		5775MHz (Ch155)
802.11ax-HE80 (RU26-left)	MCS0	14.45
802.11ax-HE80 (RU26-right)	MCS0	13.12
802.11ax-HE80 (RU52-left)	MCS0	14.32
802.11ax-HE80 (RU52-right)	MCS0	13.14
802.11ax-HE80 (RU106-left)	MCS0	14.51
802.11ax-HE80 (RU106-right)	MCS0	13.14
802.11ax-HE80 (RU242-left)	MCS0	14.29
802.11ax-HE80 (RU242-right)	MCS0	13.18
802.11ax-HE80 (RU484-left)	MCS0	14.07
802.11ax-HE80 (RU484-right)	MCS0	14.29
802.11ax-HE80 (RU996)	MCS0	13.63

MIMO

802.11a mode

Mode	Data Rate (Mbps)	Test Result (dBm)		
		5745MHz (Ch149)	5785MHz (Ch157)	5825MHz (Ch165)
802.11a	6	18.92	19.12	19.01

The data rate 6Mbps is selected as worse 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	18.52	18.00	18.30

The data rate MCS0 is selected as worse 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	18.48	18.36	18.35

The data rate MCS0 is selected as worse 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	18.92	18.91

The data rate MCS0 is selected as worse 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	19.34	19.20

The data rate MCS0 is selected as worse 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	17.79

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

802.11ax-HE20 mode

Mode	Data Rate (Index)	Test Result (dBm)		
		5745MHz (Ch149)	5785MHz (Ch157)	5825MHz (Ch165)
802.11ax(20MHz)	MCS0	18.39	18.44	18.39

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

802.11ax-HE40 mode

Mode	Data Rate (Index)	Test Result (dBm)	
		5755MHz (Ch151)	5795MHz (Ch159)
802.11ax(40MHz)	MCS0	18.26	18.34

802.11ax-HT80 mode

Mode	Data Rate (Index)	Test Result (dBm)
		5775MHz (Ch155)
802.11ax(80MHz)	MCS0	18.14

802.11ax-HE20 mode

Mode	Data Rate (Index)	Test Result (dBm)		
		5745MHz (Ch149)	5785MHz (Ch157)	5805MHz (Ch161)
802.11ax-HE20 (RU26-left)	MCS0	16.80	16.81	16.88
802.11ax-HE20 (RU26-right)	MCS0	17.28	17.00	16.89
802.11ax-HE20 (RU52-left)	MCS0	16.62	16.66	16.72
802.11ax-HE20 (RU52-right)	MCS0	17.11	16.92	16.82
802.11ax-HE20 (RU106-left)	MCS0	17.24	17.01	16.88
802.11ax-HE20 (RU106-right)	MCS0	17.08	16.95	16.81
802.11ax-HE20 (RU242)	MCS0	16.84	16.76	16.65

802.11ax-HE40 mode

Mode	Data Rate (Index)	Test Result (dBm)	
		5755MHz (Ch151)	5795MHz (Ch159)
802.11ax-HE40 (RU26-left)	MCS0	16.82	16.95
802.11ax-HE40 (RU26-right)	MCS0	17.45	16.92
802.11ax-HE40 (RU52-left)	MCS0	16.90	17.07
802.11ax-HE40	MCS0	17.43	16.94

(RU52-right)			
802.11ax-HE40 (RU106-left)	MCS0	17.31	17.21
802.11ax-HE40 (RU106-right)	MCS0	17.42	16.84
802.11ax-HE40 (RU242-left)	MCS0	17.07	16.94
802.11ax-HE40 (RU242-right)	MCS0	17.13	16.67
802.11ax-HE40 (RU484)	MCS0	17.04	16.76

802.11ax-HE80 mode

Mode	Data Rate (Index)	Test Result (dBm)
		5775MHz (Ch155)
802.11ax-HE80 (RU26-left)	MCS0	16.82
802.11ax-HE80 (RU26-right)	MCS0	16.95
802.11ax-HE80 (RU52-left)	MCS0	16.84
802.11ax-HE80 (RU52-right)	MCS0	16.81
802.11ax-HE80 (RU106-left)	MCS0	17.15
802.11ax-HE80 (RU106-right)	MCS0	16.94
802.11ax-HE80 (RU242-left)	MCS0	17.01
802.11ax-HE80 (RU242-right)	MCS0	16.81
802.11ax-HE80 (RU484-left)	MCS0	16.73
802.11ax-HE80 (RU484-right)	MCS0	16.90
802.11ax-HE80 (RU996)	MCS0	16.86

The duty cycle of all mode except RU are greater than or equal to 98%. The duty cycle of RU is 50%.

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:

SISO-core1

Mode	Channel	Power Spectral Density (dBm/500kHz)	Conclusion
802.11a	149	7.13	P
	157	7.45	P
	165	7.85	P
802.11ac HT20	149	6.12	P
	157	6.20	P
	165	6.77	P
802.11ac HT40	151	4.30	P
	159	4.33	P
802.11ac HT80	155	-0.40	P
802.11ax HE20	149	5.40	P
	157	5.95	P
	165	6.44	P
802.11ax HE40	151	2.07	P
	159	2.31	P
802.11ax-HE80	155	-0.48	P
802.11x-HE20 RU26-left	149	8.47	P
	157	6.39	P
	165	6.54	P
802.11x-HE20 RU26-right	149	6.01	P
	157	6.31	P
	165	6.37	P
802.11ax-HE40 RU26-left	151	6.39	P
	159	6.66	P
802.11ax-HE40 RU26-right	151	4.45	P
	159	5.16	P
802.11ax-HE80 RU26-left	155	6.93	P
802.11ax-HE80 RU26-right	155	7.25	P

MIMO

Mode	Channel	Power Spectral Density (dBm/500kHz)	Conclusion
802.11a	149	7.72	P
	157	7.73	P
	165	8.45	P
802.11n HT20	149	6.65	P
	157	6.53	P
	165	7.33	P
802.11ac HT40	151	5.11	P
	159	4.78	P
802.11ac HT80	155	1.44	P
802.11ax HE20	149	6.81	P
	157	6.44	P
	165	7.21	P
802.11ax HE40	151	4.36	P
	159	4.22	P
802.11ax-HE80	155	1.95	P
802.11x-HE20 RU26-left	149	13.96	P
	157	13.59	P
	165	13.45	P
802.11x-HE20 RU26-right	149	13.58	P
	157	13.04	P
	165	13.00	P
802.11ax-HE40 RU26-left	151	14.01	P
	159	13.73	P
802.11ax-HE40 RU26-right	151	13.65	P
	159	13.10	P
802.11ax-HE80 RU26-left	155	14.17	P
802.11ax-HE80 RU26-right	155	13.08	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:

SISO-core1

Mode	Channel	Occupied 6dB Bandwidth (MHz)		conclusion
802.11a	149	Fig.1	15.15	P
	157	Fig.2	15.15	P
	165	Fig.3	15.10	P
802.11ac HT20	149	Fig.4	15.10	P
	157	Fig.5	15.30	P
	165	Fig.6	15.05	P
802.11ac HT40	151	Fig.7	34.24	P
	159	Fig.8	33.68	P
802.11ac HT80	155	Fig.9	65.12	P
802.11ax-HE20 RU242	149	Fig.10	19.05	P
	157	Fig.11	19.05	P
	165	Fig.12	19.00	P
802.11ax-HE40 RU484	151	Fig.13	38.16	P
	159	Fig.14	38.08	P
802.11ax-HE80 RU996	155	Fig.15	77.76	P

MIMO-core1

Mode	Channel	Occupied 6dB Bandwidth (MHz)		conclusion
802.11a	149	Fig.16	15.10	P
	157	Fig.17	15.10	P
	165	Fig.18	15.10	P
802.11 HT20	149	Fig.19	15.05	P
	157	Fig.20	15.10	P
	165	Fig.21	15.05	P
802.11ac HT40	151	Fig.22	33.76	P
	159	Fig.23	35.68	P
802.11ac HT80	155	Fig.24	72.64	P
802.11ax-HE20 RU242	149	Fig.25	19.00	P
	157	Fig.26	18.95	P

	165	Fig.27	19.05	P
802.11ax-HE40 RU484	151	Fig.28	38.16	P
	159	Fig.29	37.92	P
802.11ax-HE80 RU996	155	Fig.30	76.64	P

Conclusion: PASS

Test graphs as below:

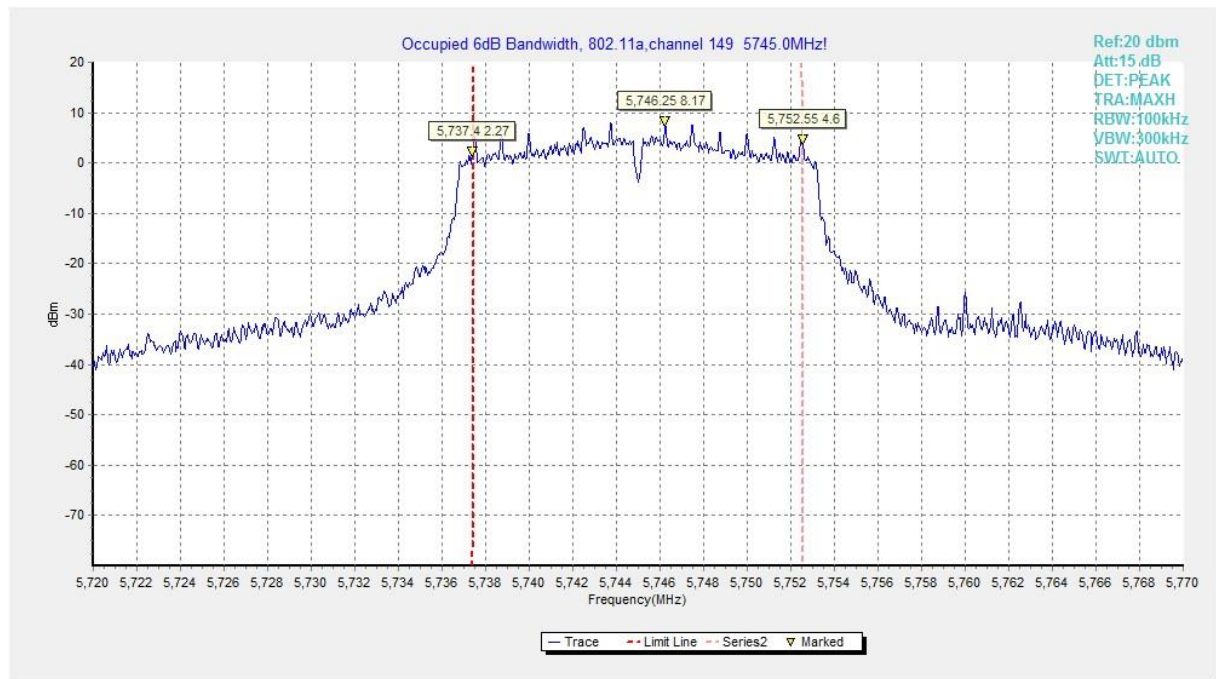


Fig. 1 Occupied 6dB Bandwidth (802.11a, Ch 149)

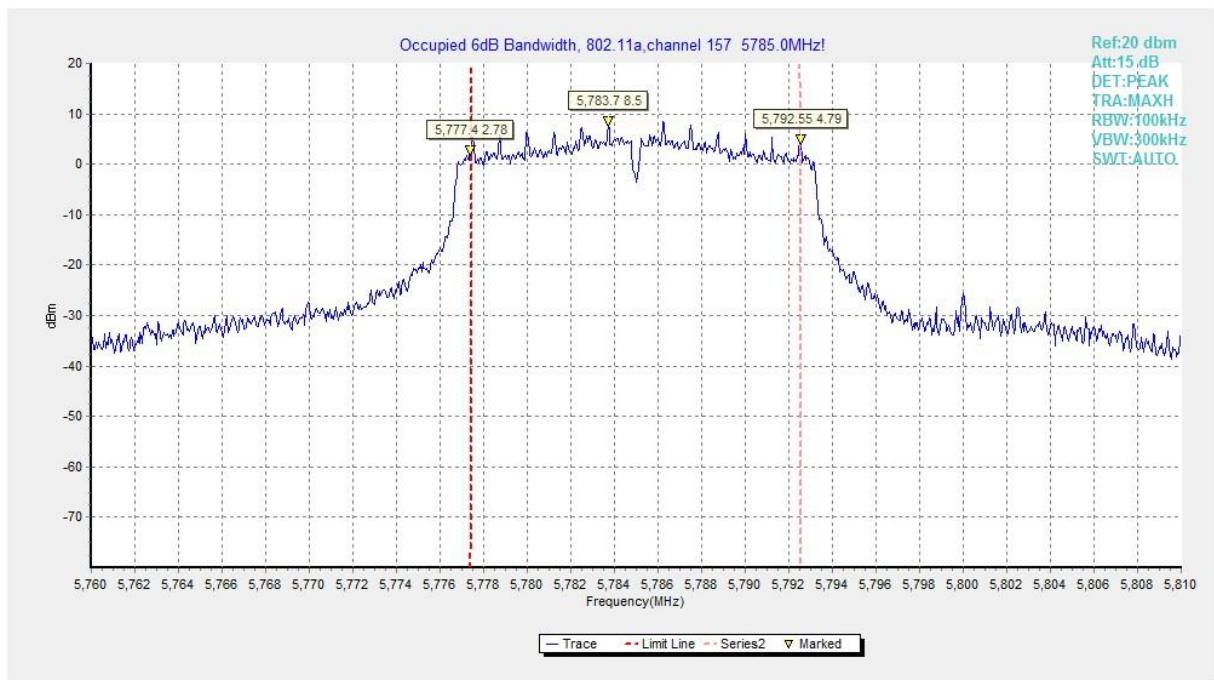


Fig. 2 Occupied 6dB Bandwidth (802.11a, Ch 157)

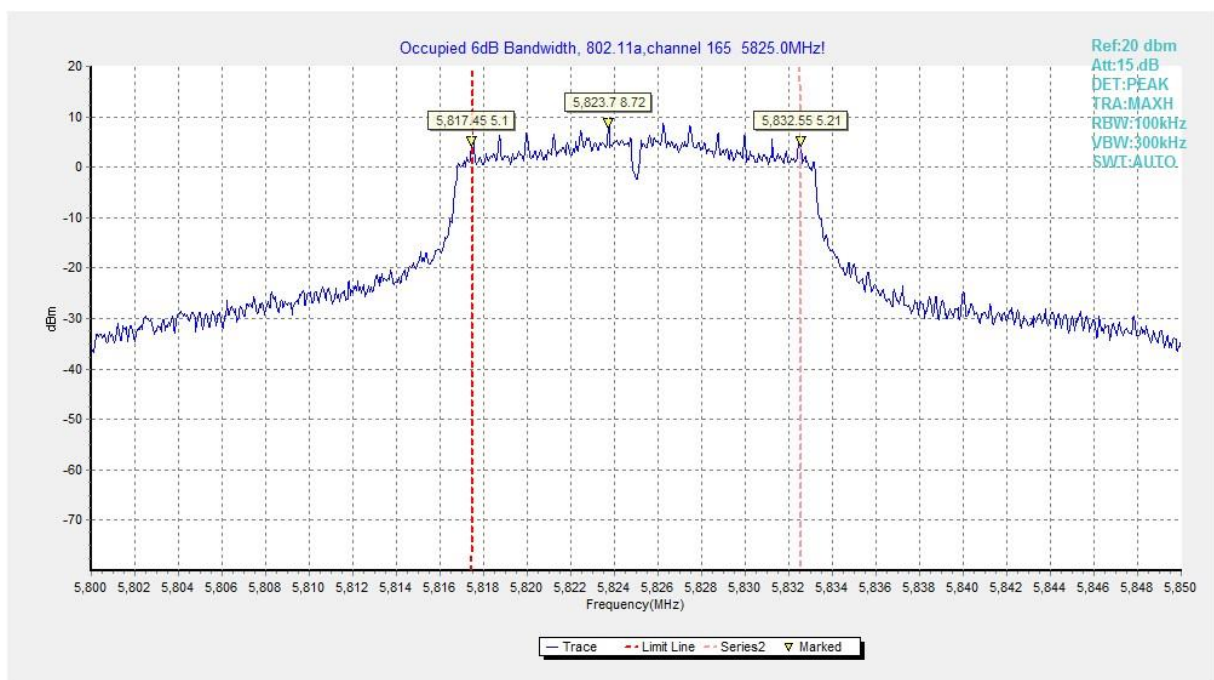


Fig. 3 Occupied 6dB Bandwidth (802.11a, Ch 165)

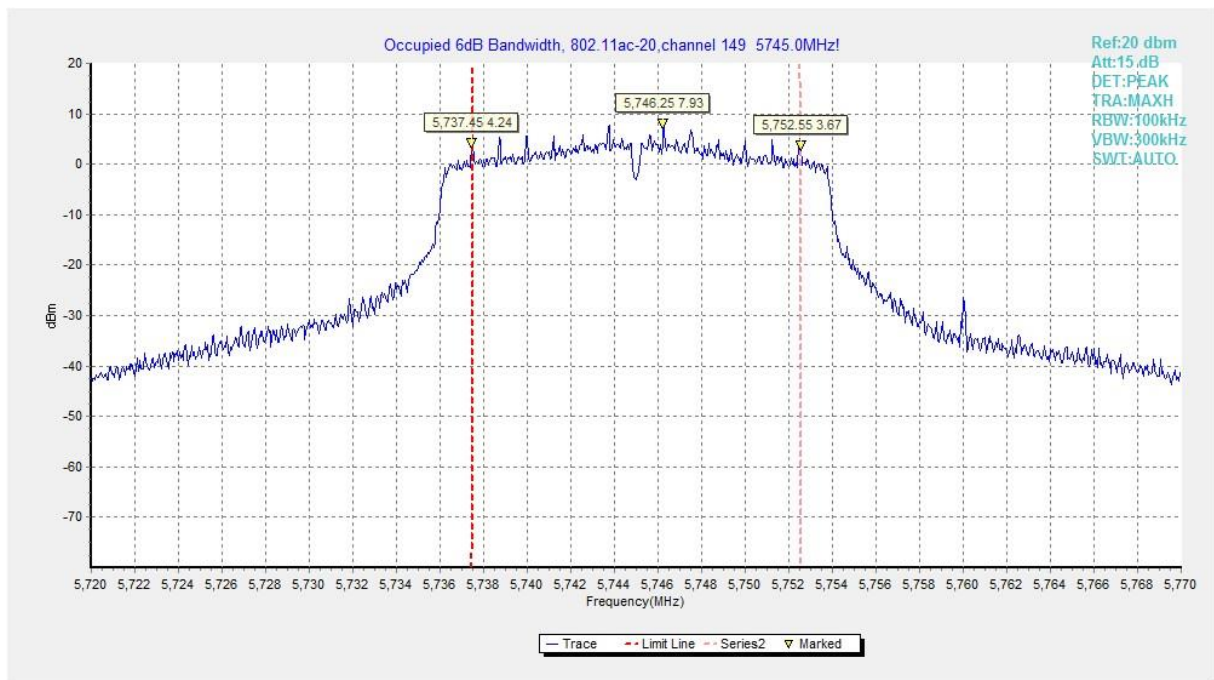


Fig. 4 Occupied 6dB Bandwidth (802.11ac-HT20, Ch 149)

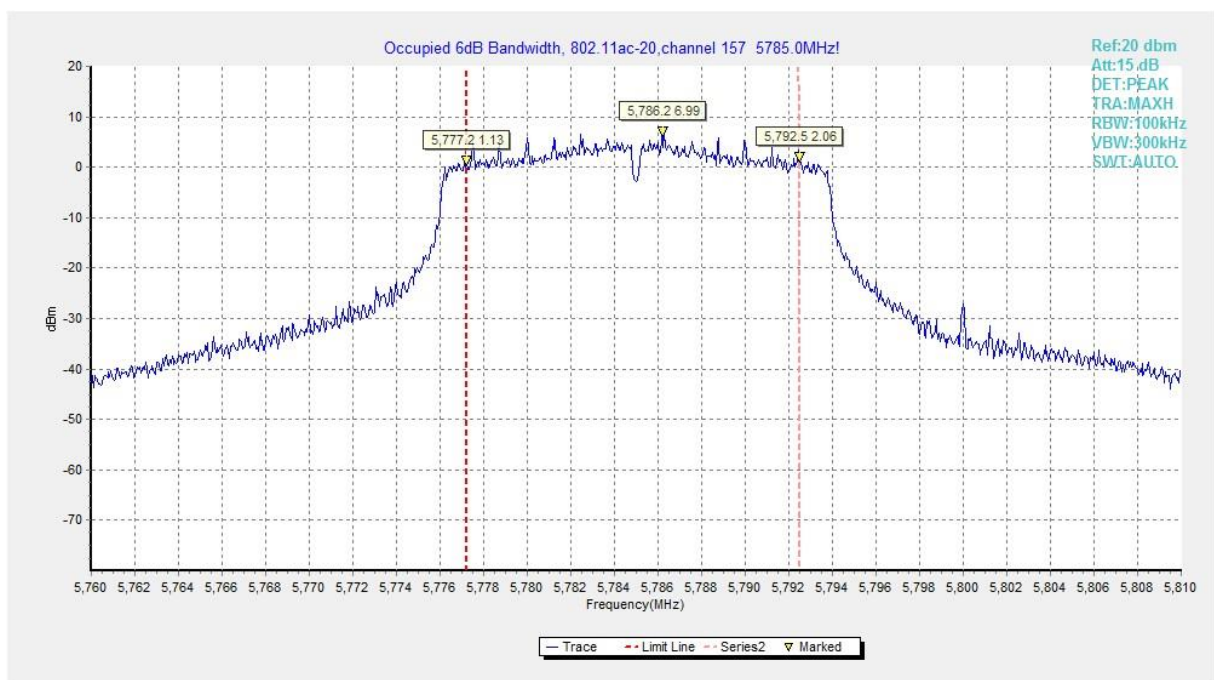


Fig. 5 Occupied 6dB Bandwidth (802.11ac-HT20, Ch 157)

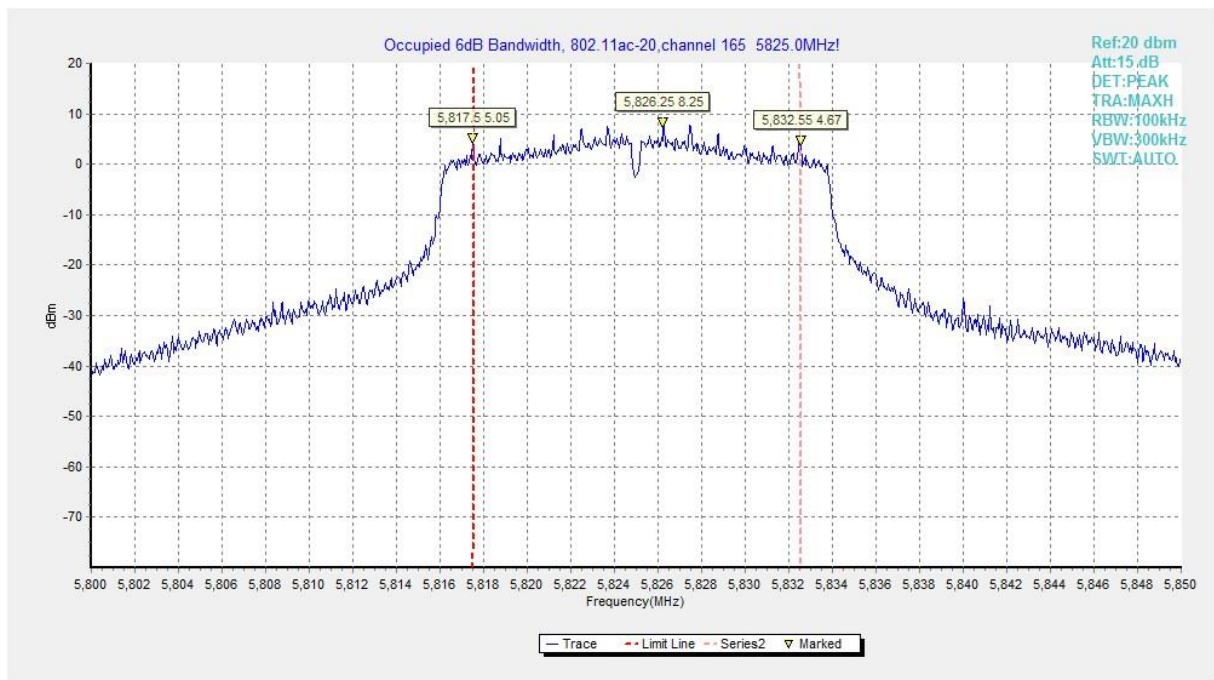


Fig. 6 Occupied 6dB Bandwidth (802.11ac-HT20, Ch 165)

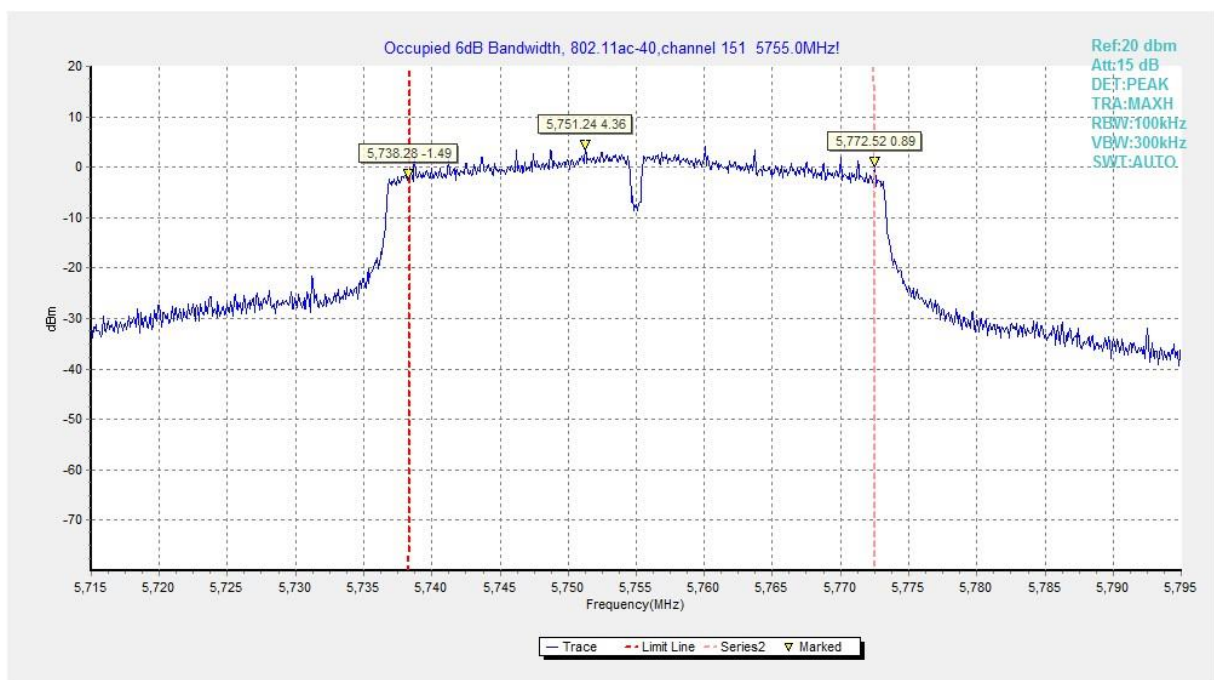


Fig. 7 Occupied 6dB Bandwidth (802.11ac-HT40, Ch 151)

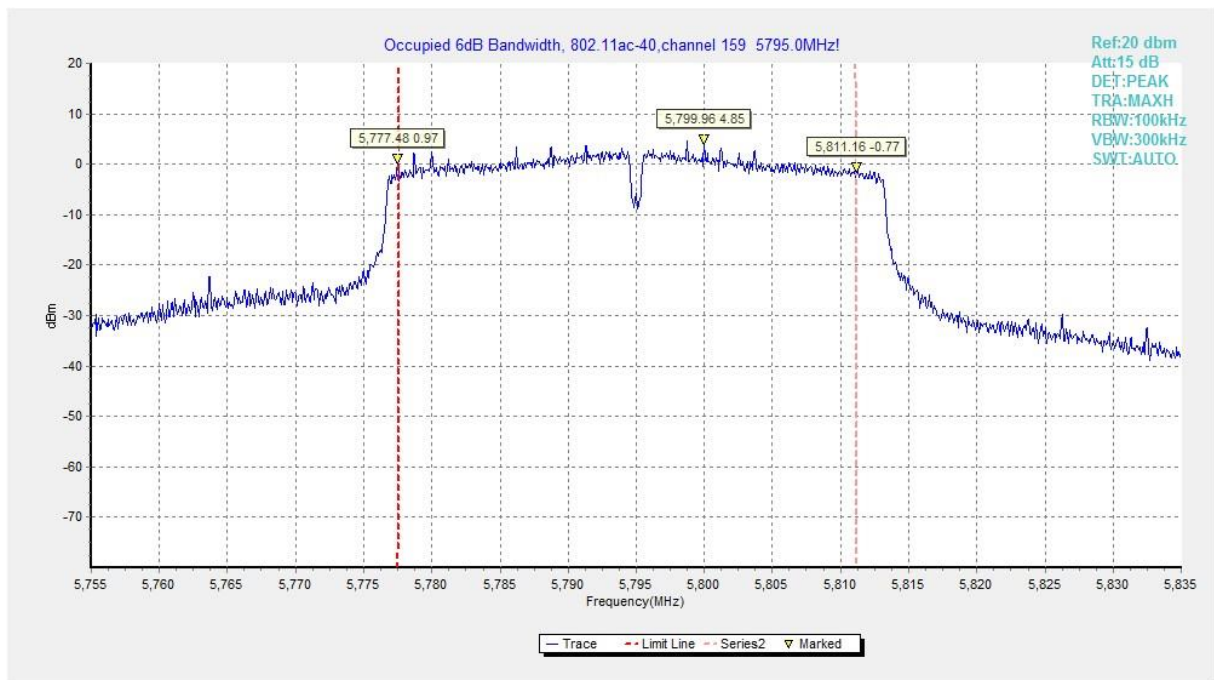


Fig. 8 Occupied 6dB Bandwidth (802.11ac-HT40, Ch 159)

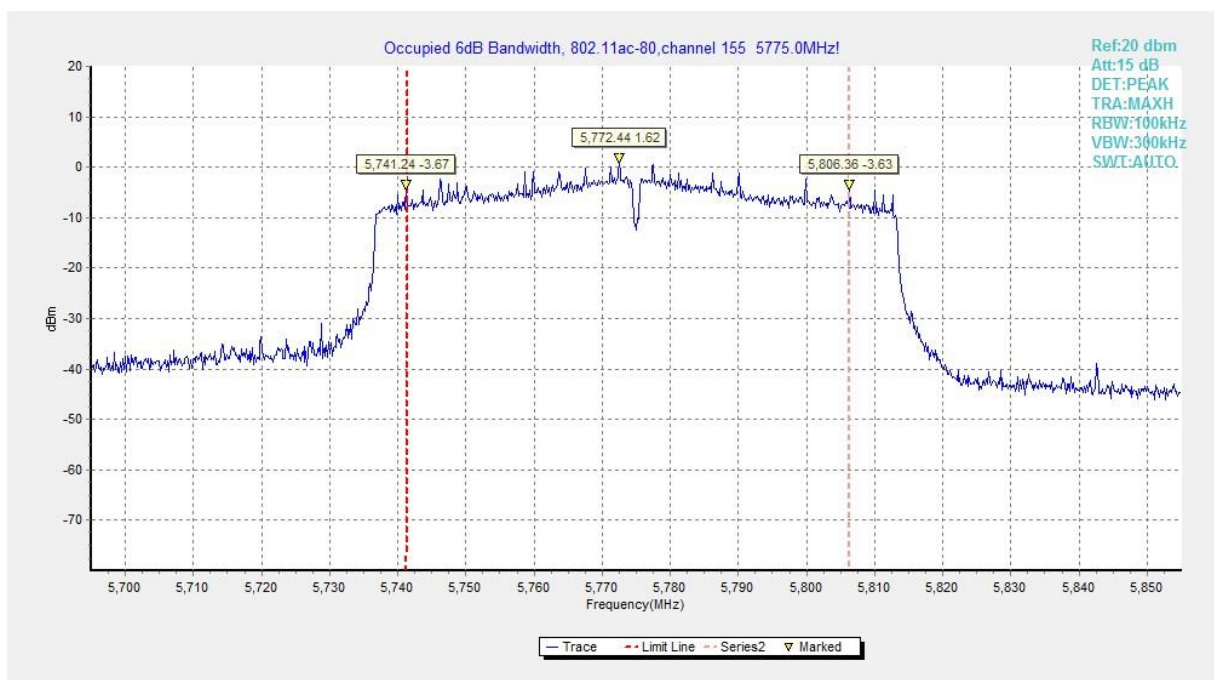


Fig. 9 Occupied 6dB Bandwidth (802.11ac-HT80, Ch 155)

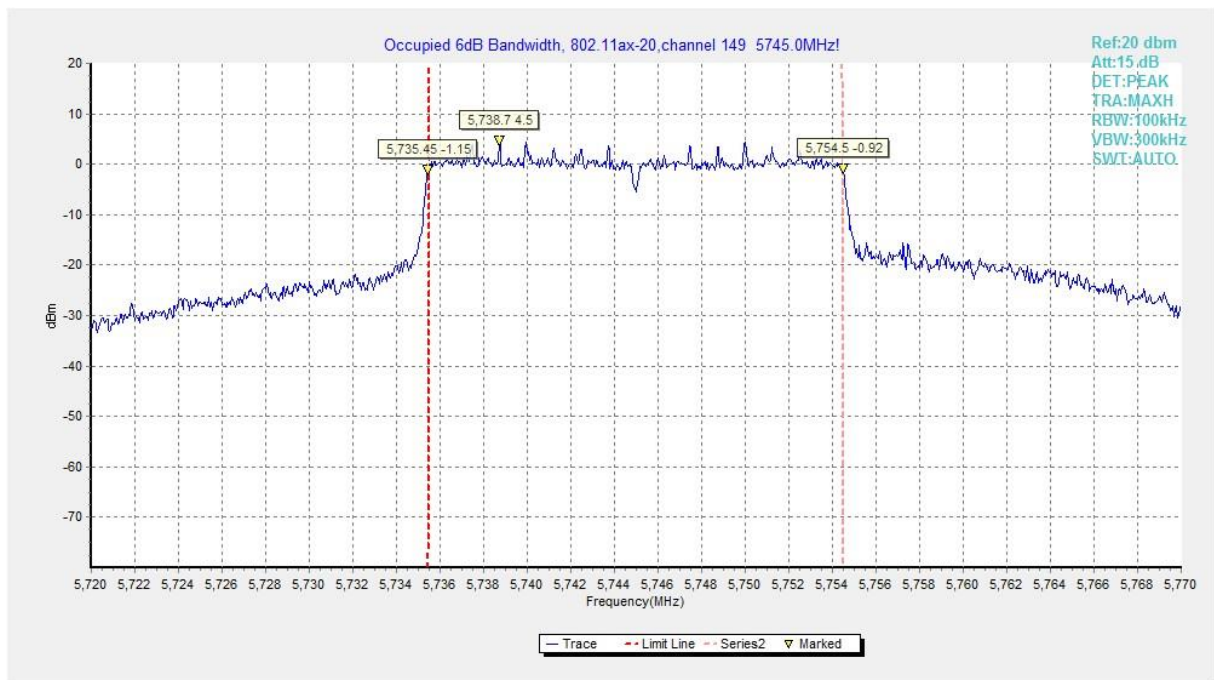


Fig. 10 Occupied 6dB Bandwidth (802.11ax-HE20, Ch 149)

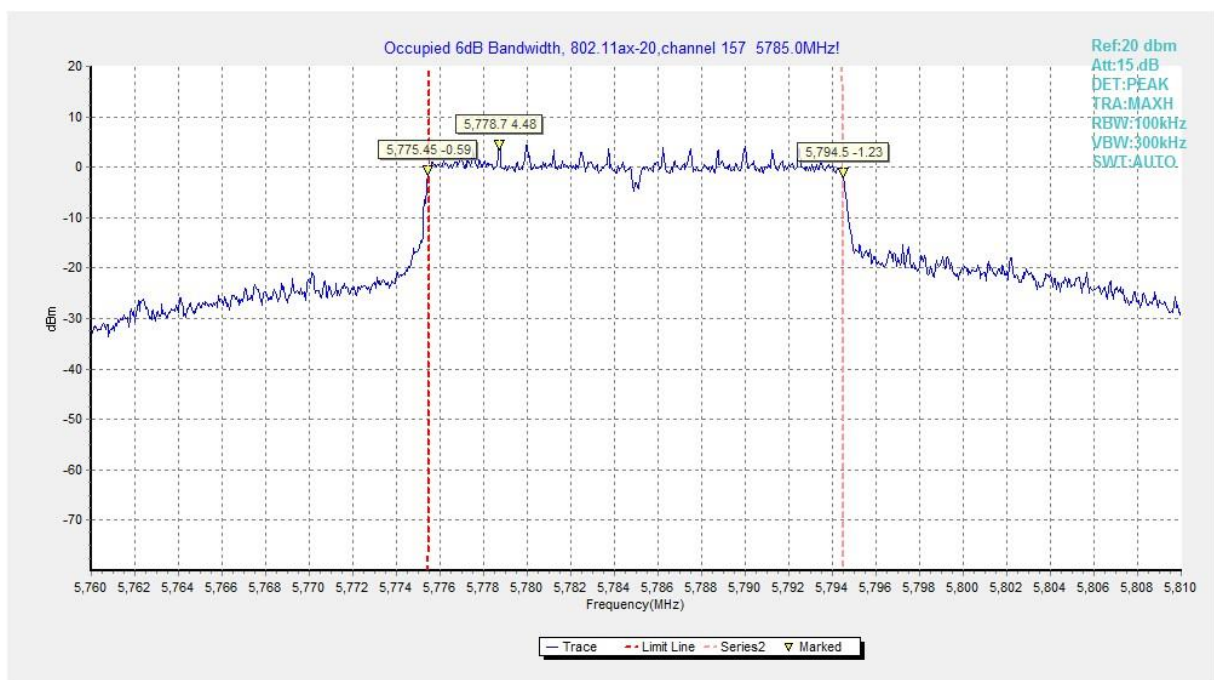


Fig. 11 Occupied 6dB Bandwidth (802.11ax-HE20, Ch 157)

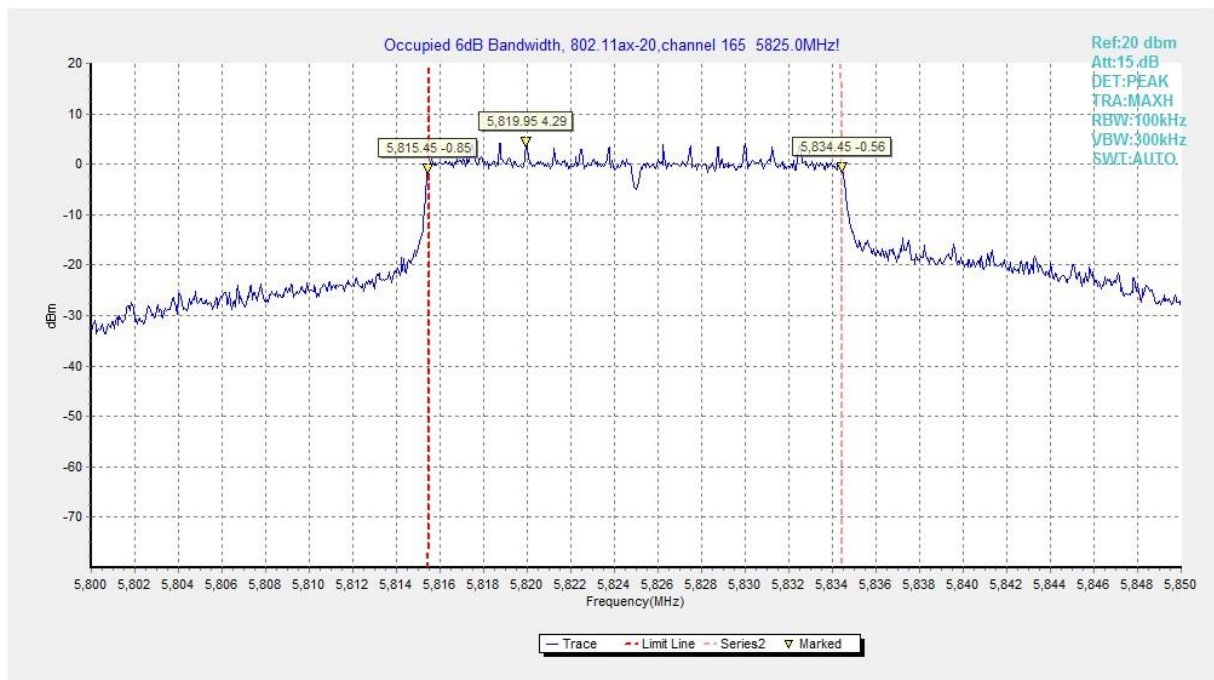


Fig. 12 Occupied 6dB Bandwidth (802.11ax-HE20, Ch 165)

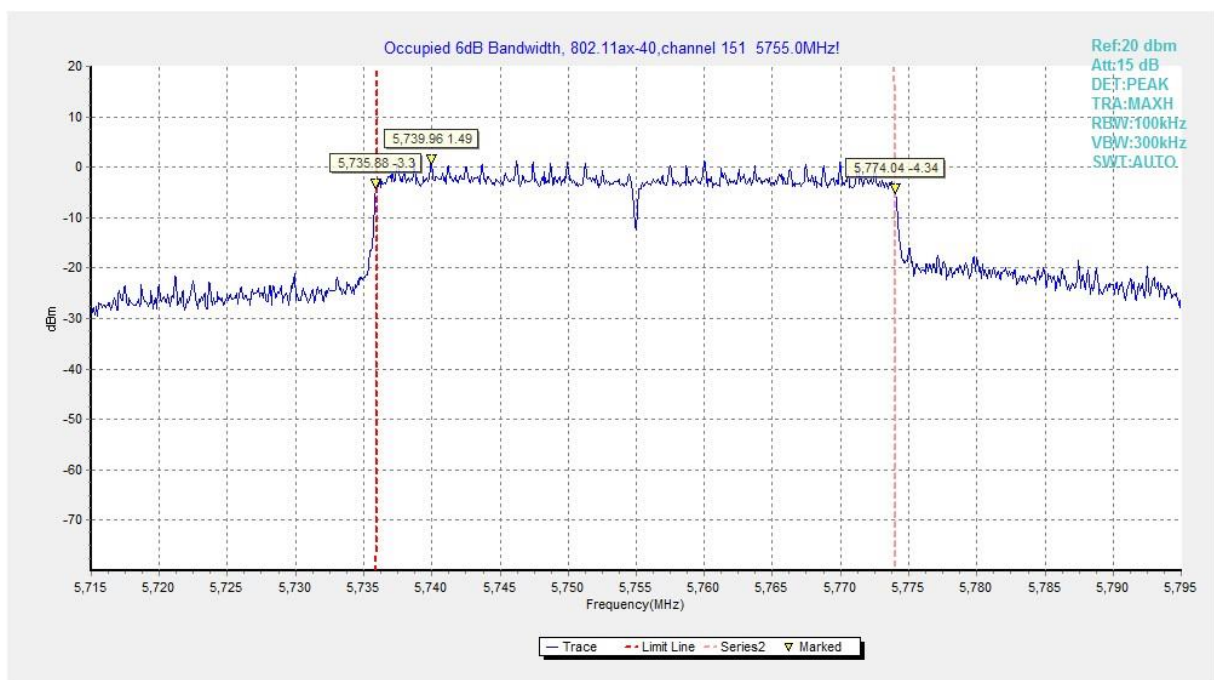


Fig. 13 Occupied 6dB Bandwidth (802.11ax-HE40, Ch 151)

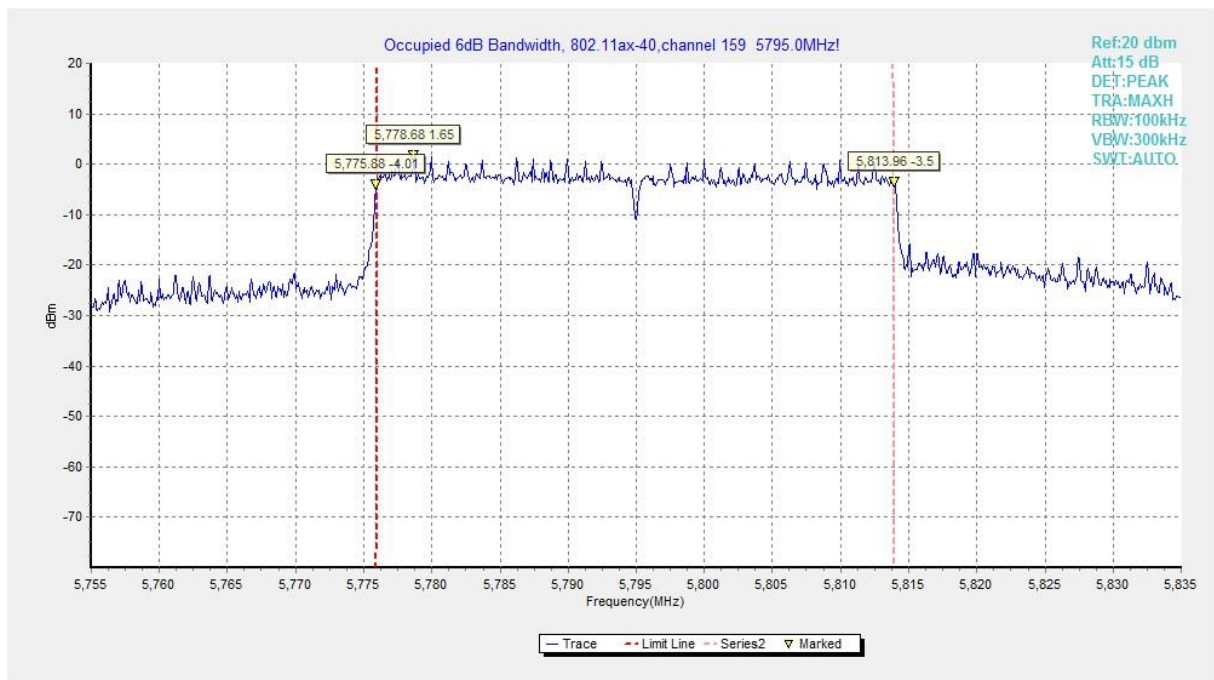


Fig. 14 Occupied 6dB Bandwidth (802.11ax-HE40, Ch 159)

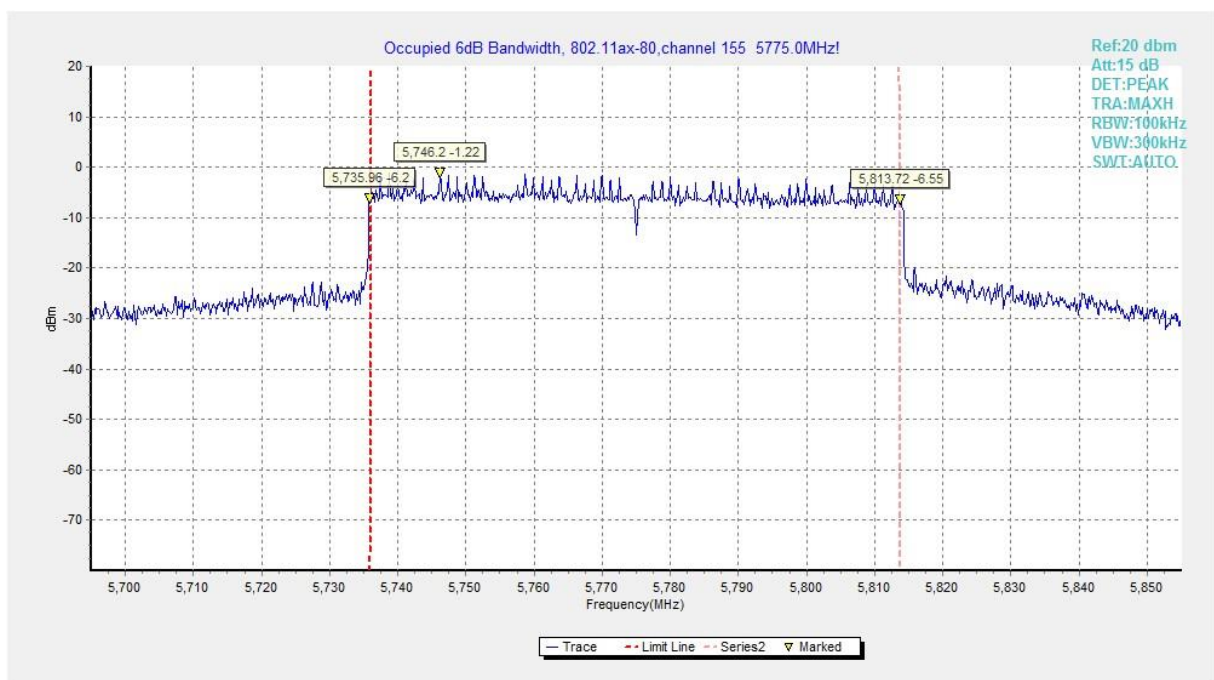


Fig. 15 Occupied 6dB Bandwidth (802.11ax-HE80, Ch 155)

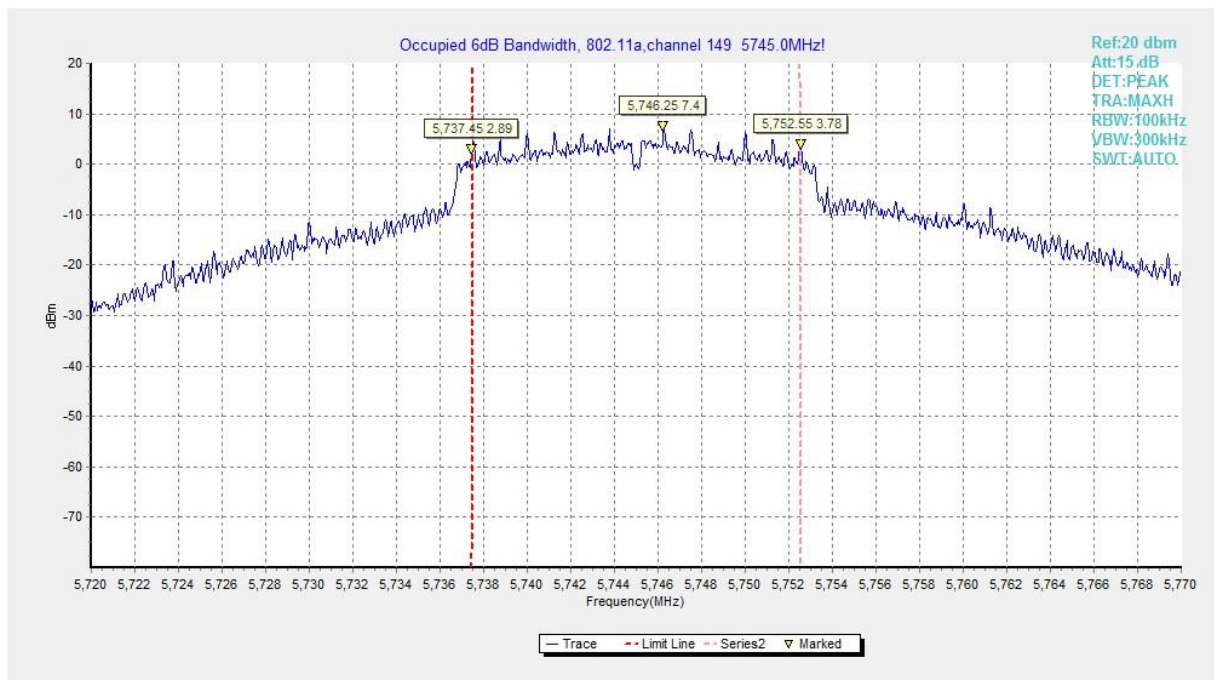


Fig. 16 Occupied 6dB Bandwidth (802.11a, Ch 149)

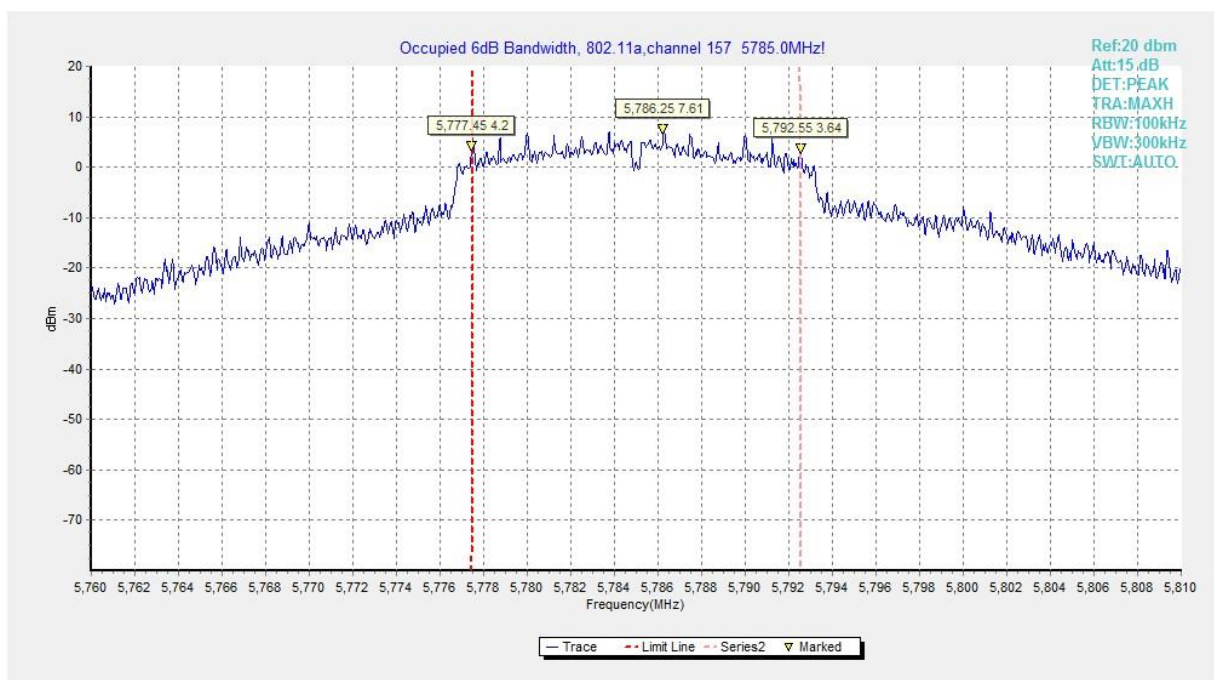


Fig. 17 Occupied 6dB Bandwidth (802.11a, Ch 157)

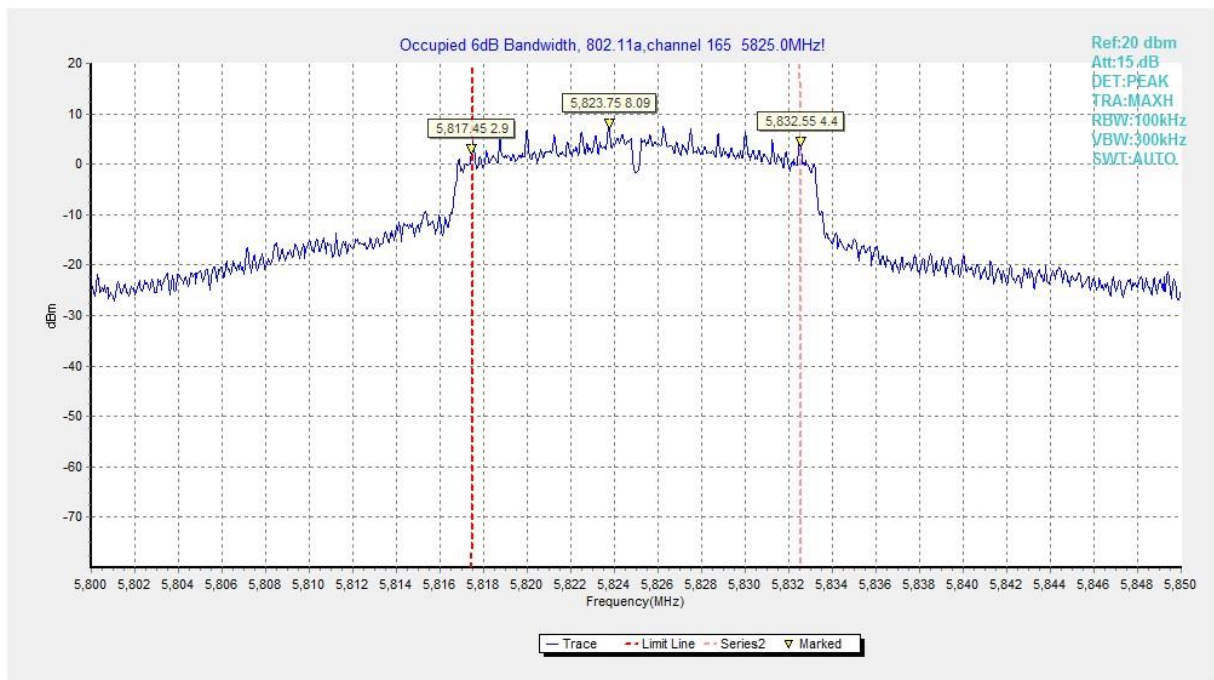


Fig. 18 Occupied 6dB Bandwidth (802.11a, Ch 165)

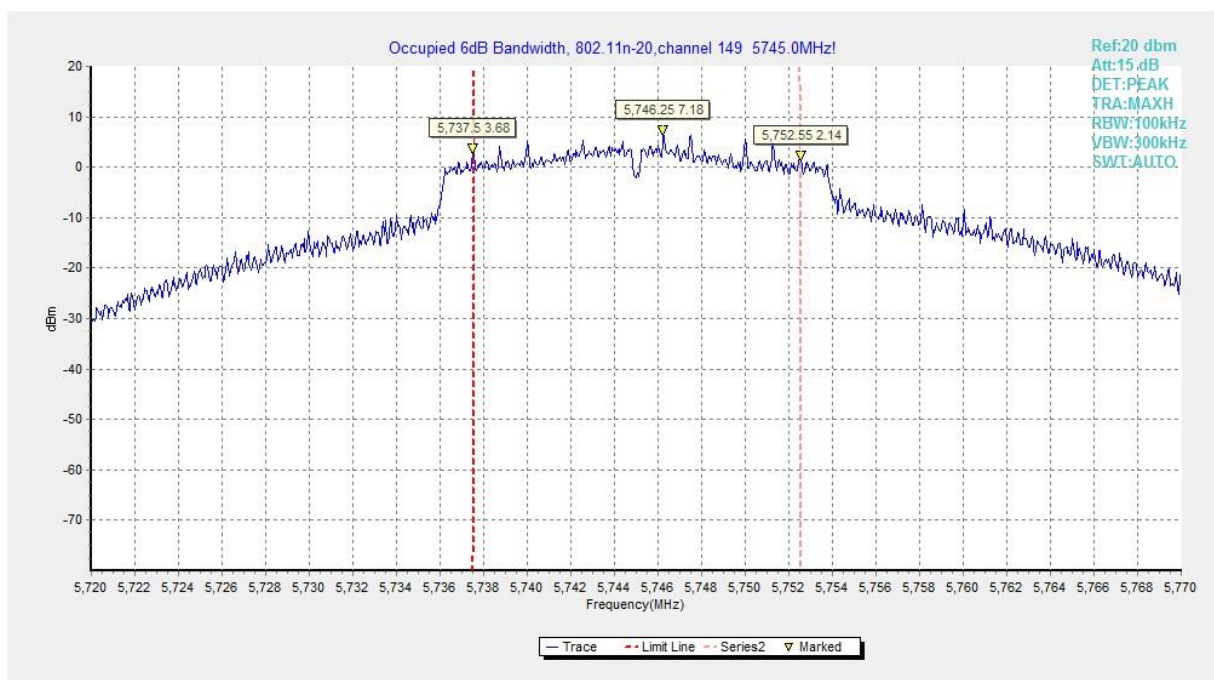


Fig. 19 Occupied 6dB Bandwidth (802.11n-HT20, Ch 149)

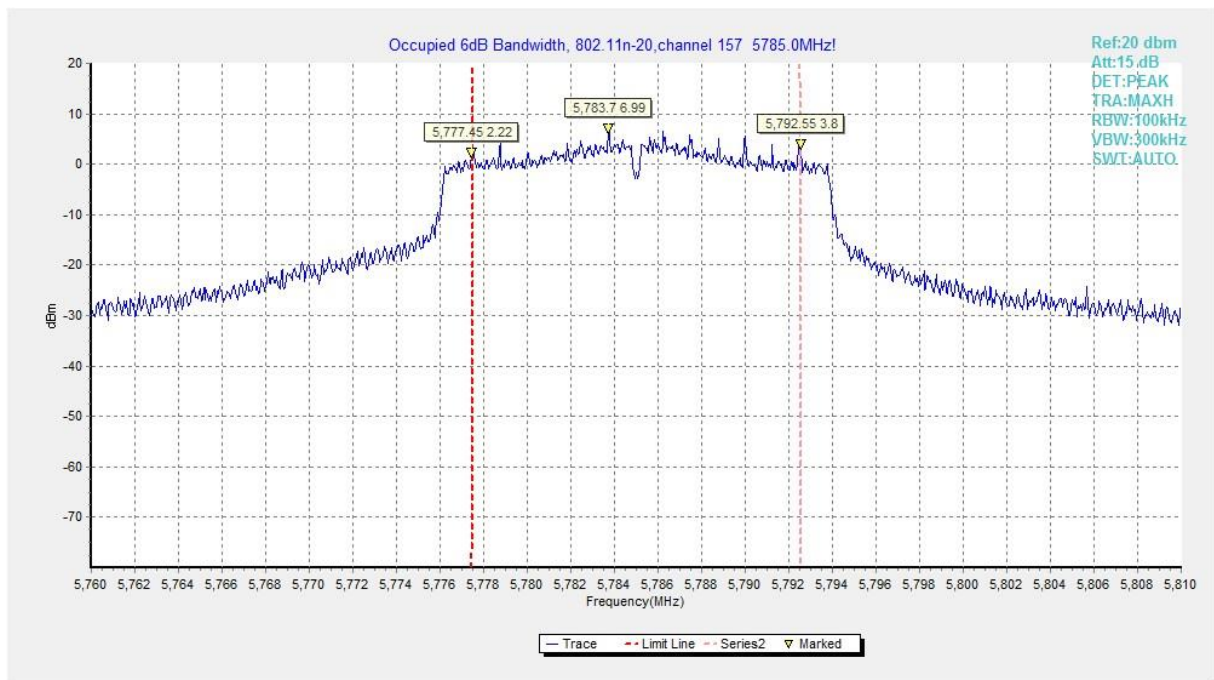


Fig. 20 Occupied 6dB Bandwidth (802.11n-HT20, Ch 157)

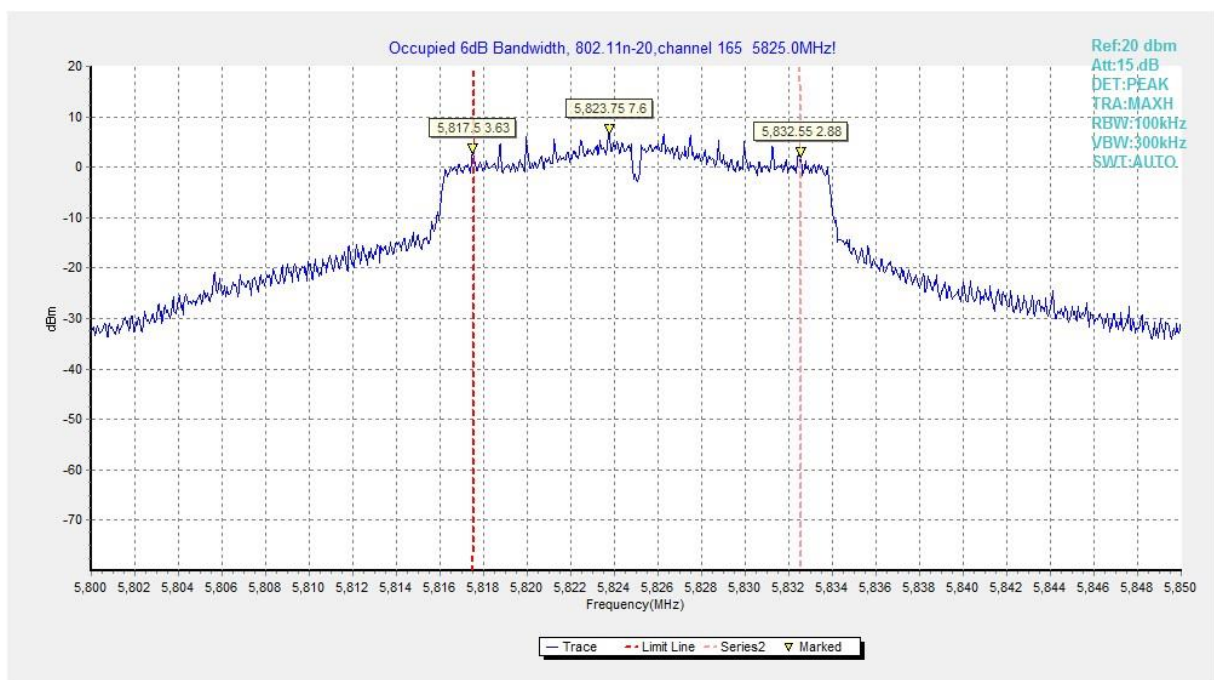


Fig. 21 Occupied 6dB Bandwidth (802.11n-HT20, Ch 165)

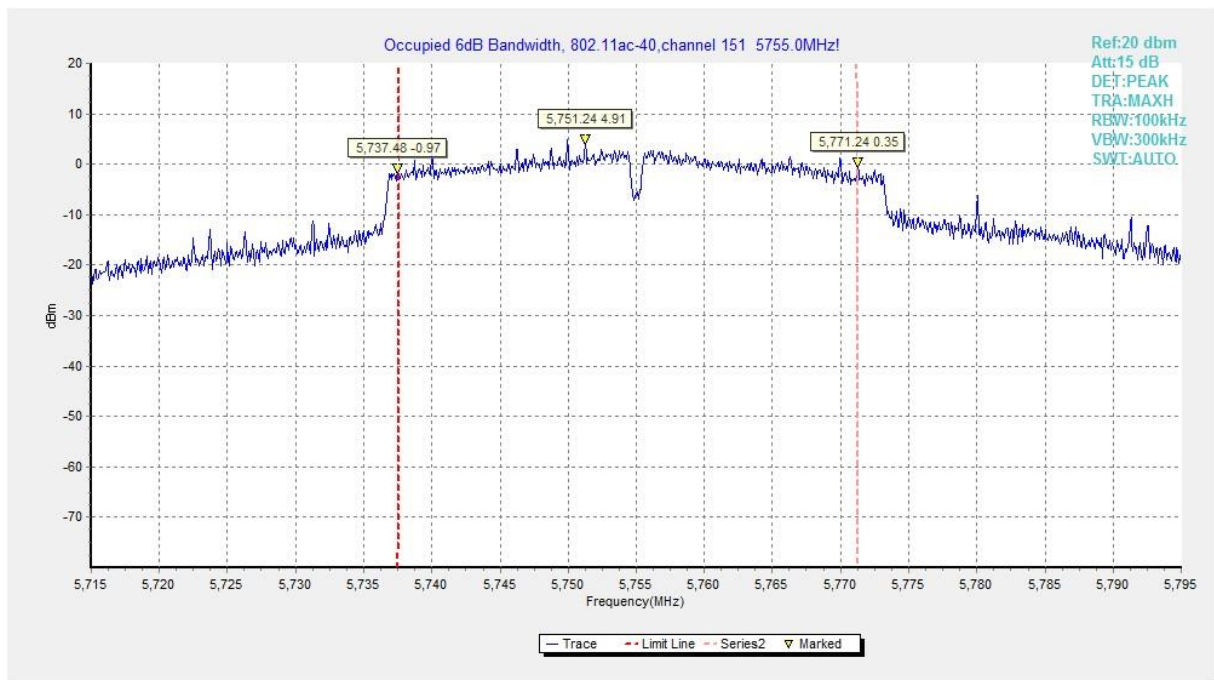


Fig. 22 Occupied 6dB Bandwidth (802.11ac-HT40, Ch 151)

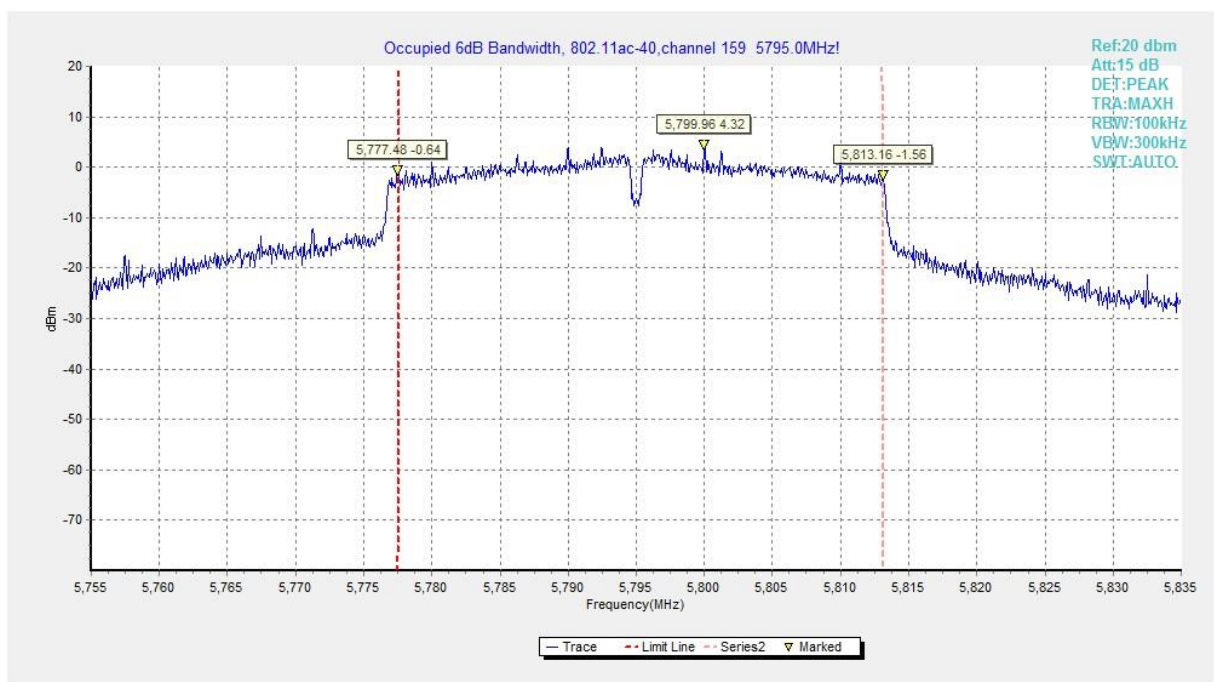


Fig. 23 Occupied 6dB Bandwidth (802.11ac-HT40, Ch 159)

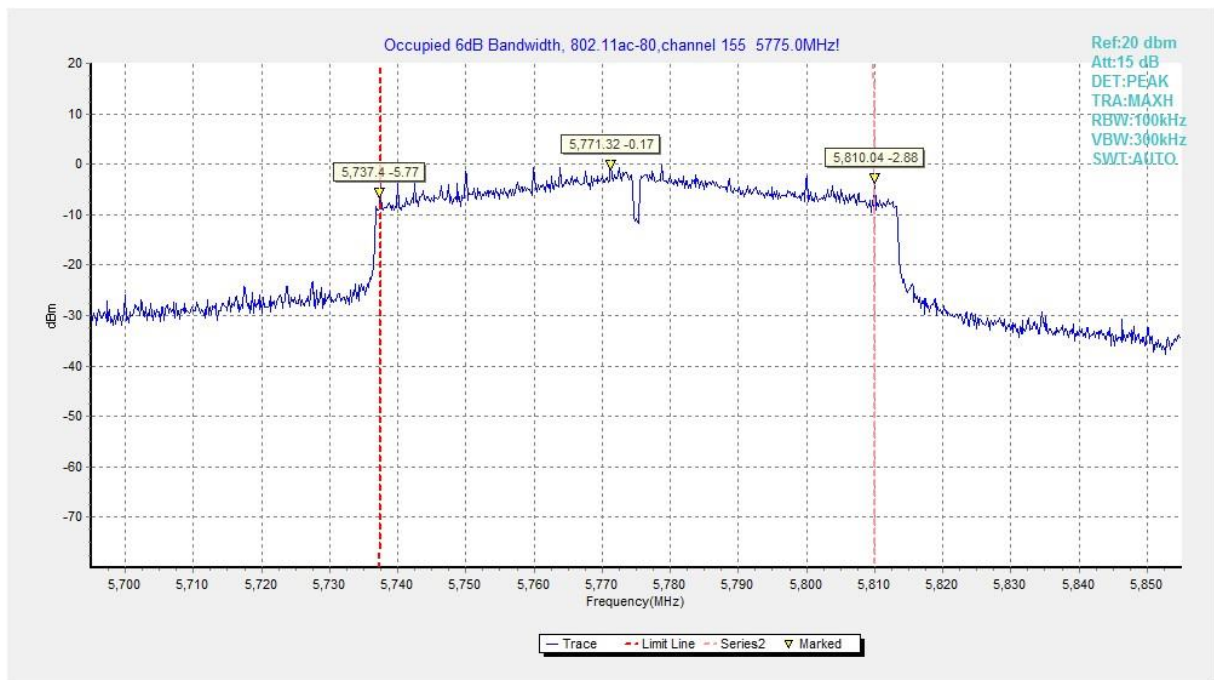


Fig. 24 Occupied 6dB Bandwidth (802.11ac-HT80, Ch 155)

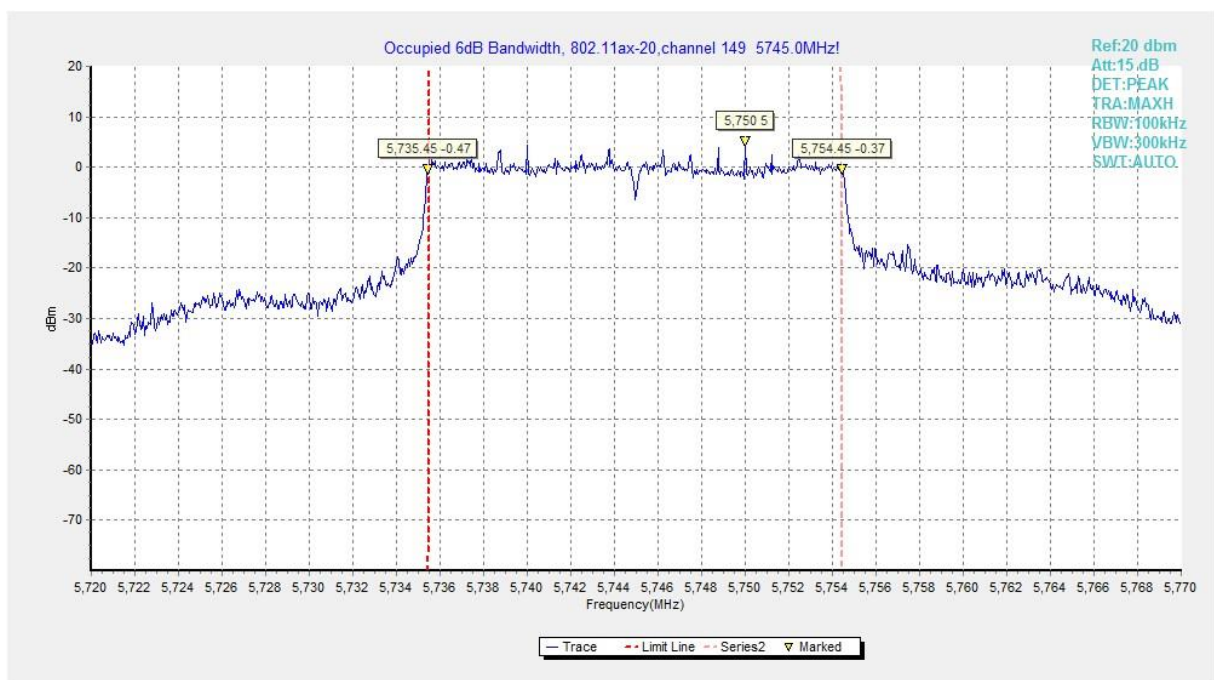


Fig. 25 Occupied 6dB Bandwidth (802.11ax-HE20, Ch 149)

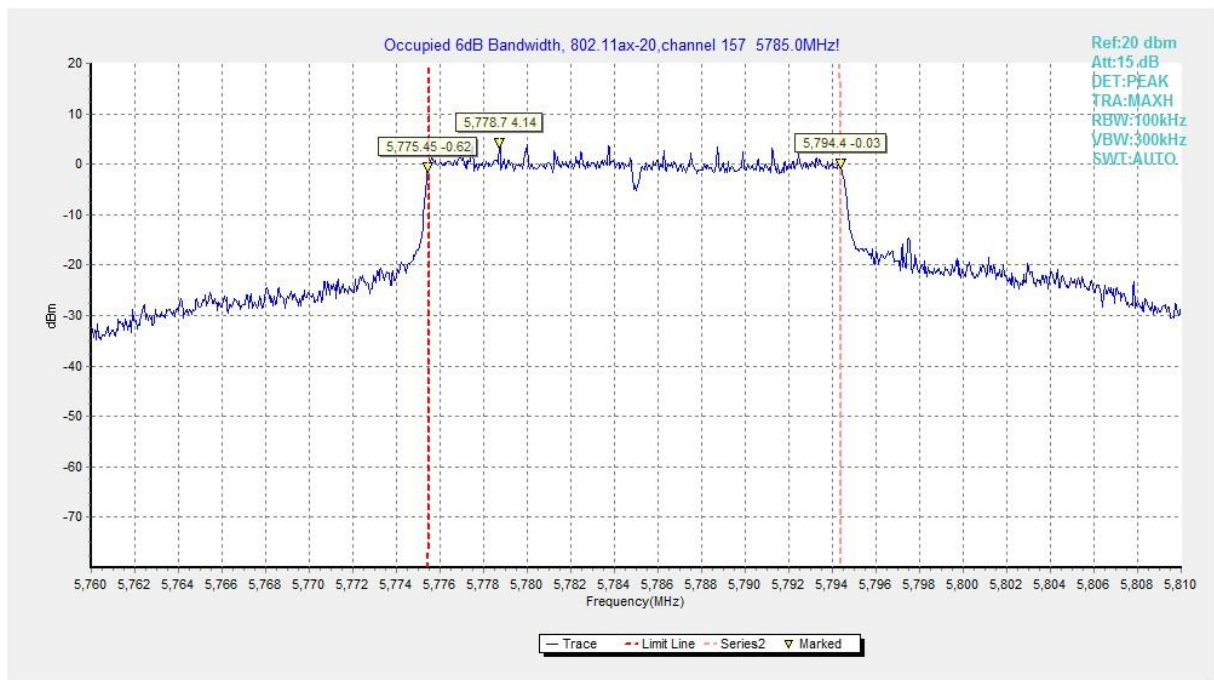


Fig. 26 Occupied 6dB Bandwidth (802.11ax-HE20, Ch 157)

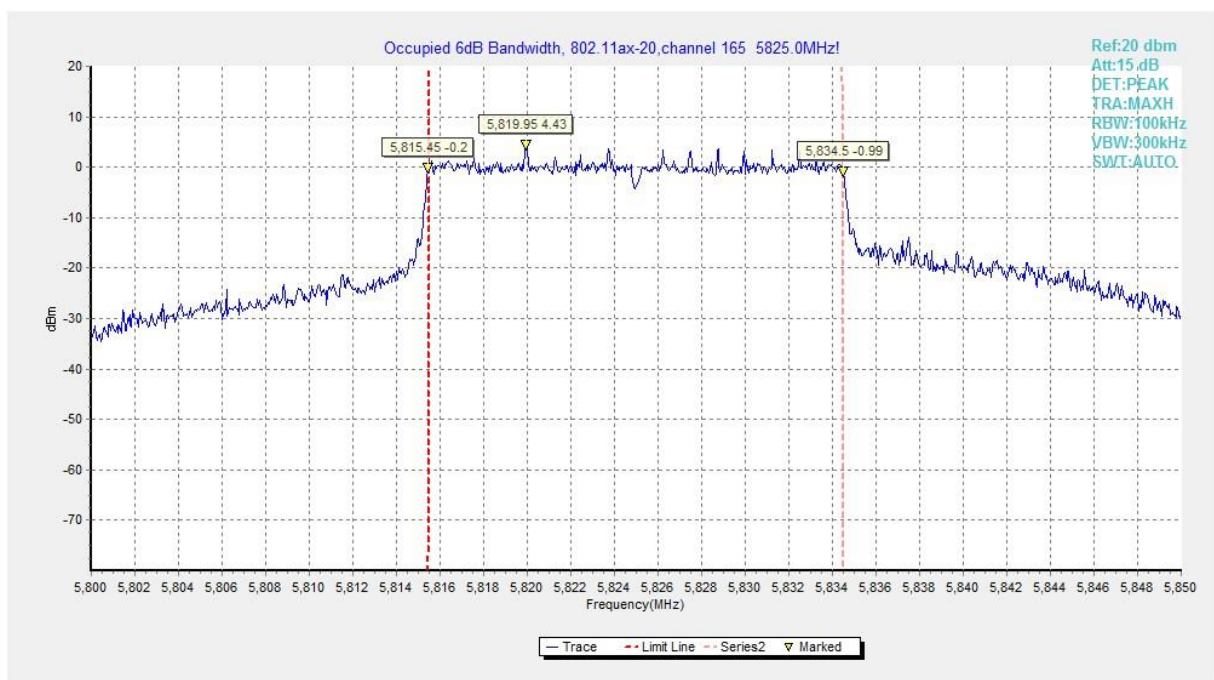


Fig. 27 Occupied 6dB Bandwidth (802.11ax-HE20, Ch 165)

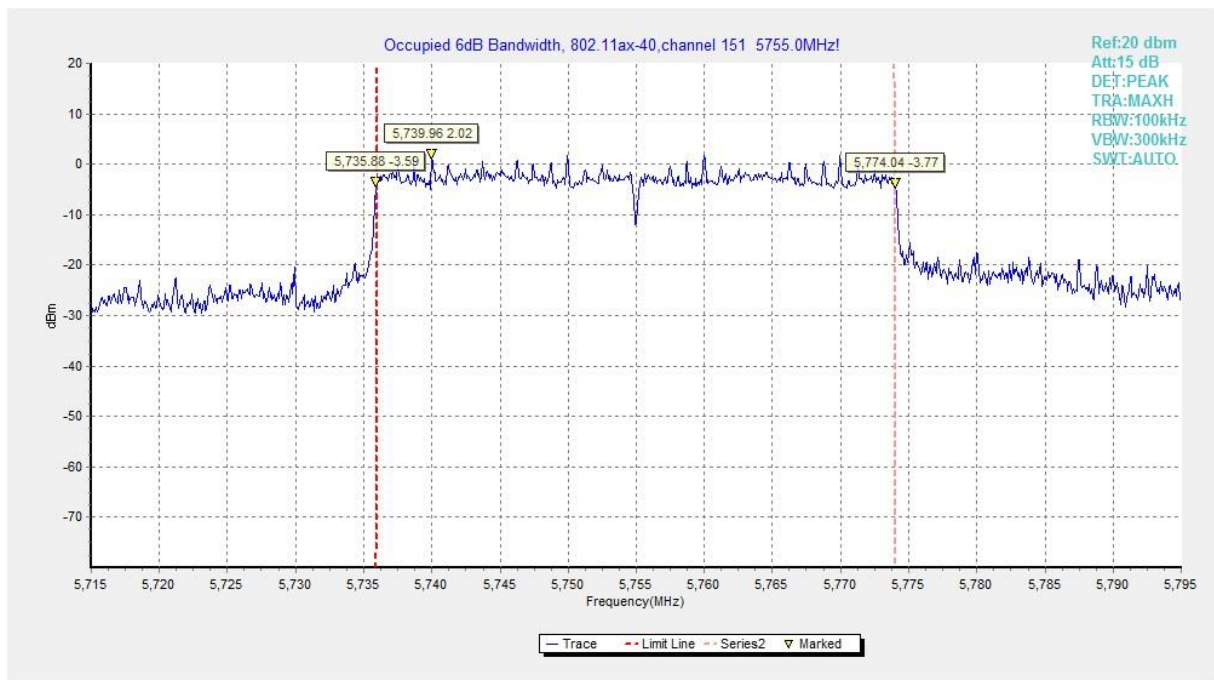


Fig. 28 Occupied 6dB Bandwidth (802.11ax-HE40, Ch 151)

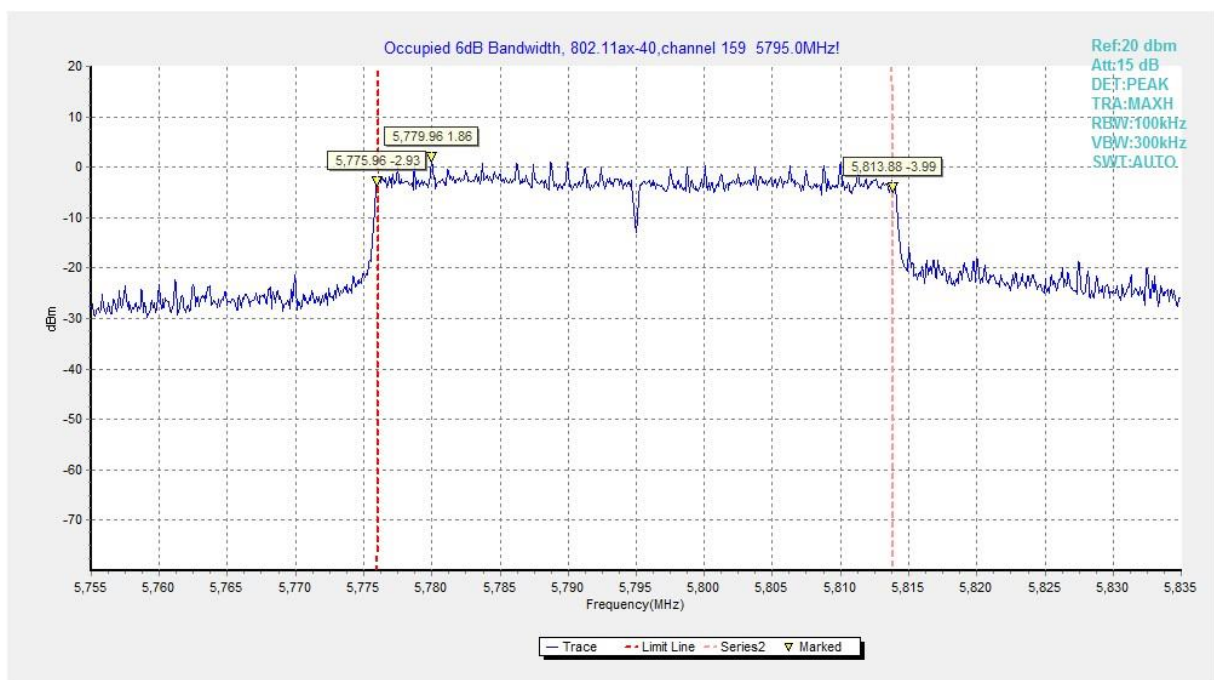


Fig. 29 Occupied 6dB Bandwidth (802.11ax-HE40, Ch 159)

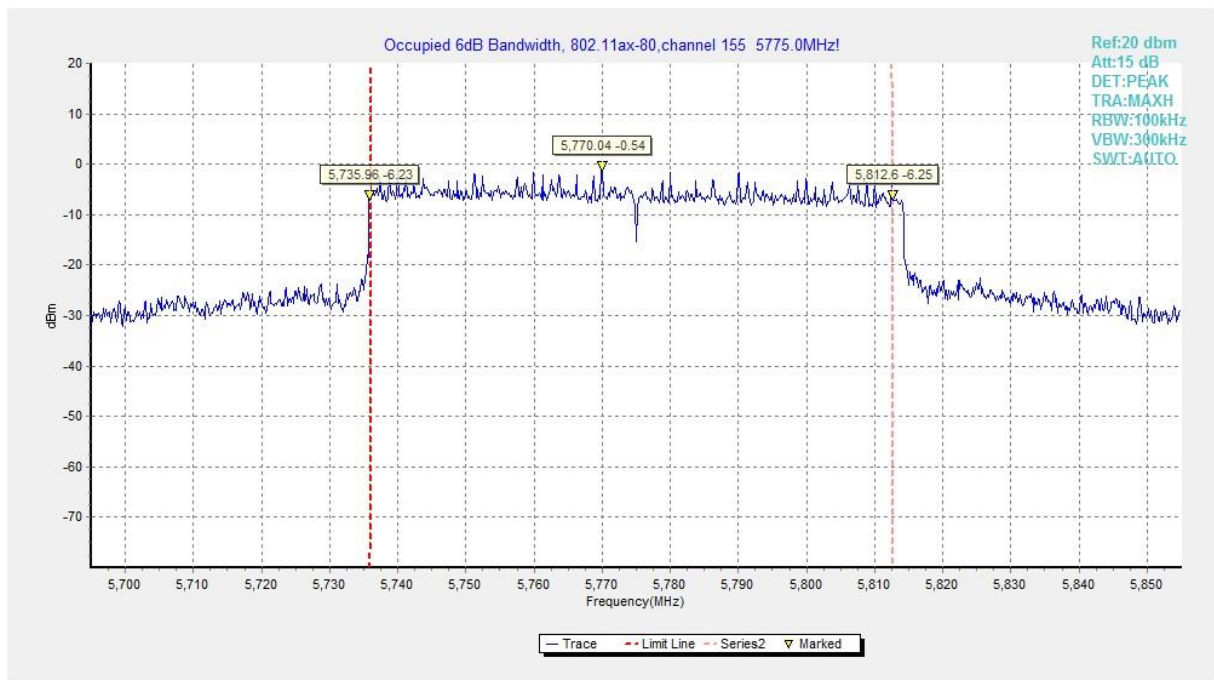


Fig. 30 Occupied 6dB Bandwidth (802.11ax-HE80, Ch 155)

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

Test Condition

The EUT was placed on a non-conductive table. The measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the antenna height and the EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. This maximization process was repeated with the EUT positioned in each of its three orthogonal orientations.

Measurement Results:

EUT1 & EUT2

802.11a mode

Mode	Channel	Frequency Range	Test Results	Conclusion
802.11a Core 0	149 157 165	9 kHz ~30 MHz	---	P
		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
802.11a Core 1	149 157 165	9 kHz ~30 MHz	---	P
		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
802.11a CCD	149 157 165	9 kHz ~30 MHz	---	P
		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

802.11n-HT20 mode

Mode	Channel	Frequency Range	Test Results	Conclusion
802.11n Core 0	149 157 165	9 kHz ~30 MHz	---	P
		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
802.11n Core 1	149 157 165	9 kHz ~30 MHz	---	P
		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
802.11n MIMO	149 157 165	9 kHz ~30 MHz	---	P
		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

802.11ac-HT20 mode

Mode	Channel	Frequency Range	Test Results	Conclusion
802.11ac Core 0	149 157 165	9 kHz ~30 MHz	---	P
		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
802.11ac Core 1	149 157 165	9 kHz ~30 MHz	---	P
		30 MHz ~1 GHz	---	P
		1 GHz ~ 3 GHz	---	P
		3 GHz ~ 7 GHz	---	P
		7 GHz ~ 18 GHz	---	P

802.11ac MIMO	149 157 165	18 GHz ~ 26.5 GHz	---	P
		26.5 GHz ~ 40 GHz	---	P
		9 kHz ~30 MHz	---	P
		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

802.11ax-HT20 mode

Mode	Channel	Frequency Range	Test Results	Conclusion
802.11ax Core 0	149 157 165	9 kHz ~30 MHz	---	P
		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
802.11ax Core 1	149 157 165	9 kHz ~30 MHz	---	P
		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
802.11ax MIMO	149 157 165	9 kHz ~30 MHz	---	P
		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

802.11n-HT40 mode

Mode	Channel	Frequency Range	Test Results	Conclusion
802.11n (HT40) Core 0	151 159	9 kHz ~30 MHz	---	P
		30 MHz ~1 GHz	---	P
		1 GHz ~ 3 GHz	---	P
		3 GHz ~ 7 GHz	---	P
		7 GHz ~ 18 GHz	---	P

802.11n (HT40) Core 1	151 159	18 GHz ~ 26.5 GHz	---	P
		26.5 GHz~ 40 GHz	---	P
		9 kHz ~30 MHz	---	P
		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
802.11n (HT40) MIMO	151 159	26.5 GHz~ 40 GHz	---	P
		9 kHz ~30 MHz	---	P
		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

802.11ac-HT40 mode

Mode	Channel	Frequency Range	Test Results	Conclusion
802.11ac (HT40) Core 0	151 159	9 kHz ~30 MHz	---	P
		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
802.11ac (HT40) Core 1	151 159	9 kHz ~30 MHz	---	P
		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
802.11ac (HT40) MIMO	151 159	9 kHz ~30 MHz	---	P
		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

802.11ax-HT40 mode

Mode	Channel	Frequency Range	Test Results	Conclusion
802.11ax (HT40) Core 0	151 159	9 kHz ~30 MHz	---	P
		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
802.11ax (HT40) Core 1	151 159	9 kHz ~30 MHz	---	P
		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
802.11ax (HT40) MIMO	151 159	9 kHz ~30 MHz	---	P
		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

802.11ac-HT80 mode

Mode	Channel	Frequency Range	Test Results	Conclusion
802.11ac (HT80) Core 0	155	9 kHz ~30 MHz	---	P
		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
802.11ac (HT80) Core 0	155	9 kHz ~30 MHz	---	P
		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
802.11ac (HT80)	155	9 kHz ~30 MHz	---	P
		30 MHz ~1 GHz	---	P

Core 0		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

802.11ax-HT80 mode

Mode	Channel	Frequency Range	Test Results	Conclusion
802.11ax (HT80) Core 0	155	9 kHz ~30 MHz	---	P
		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
802.11ax (HT80) Core 0	155	9 kHz ~30 MHz	---	P
		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
802.11ax (HT80) Core 0	155	9 kHz ~30 MHz	---	P
		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

Conclusion: PASS

Note1:

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 cable loss.

Receiver Reading is the field strength recorded from the instrument.

The measurement results are obtained as described below:

Result=Receiver Reading+ A_{Rpl} = Receiver Reading+Cable Loss+Antenna Factor

Note2:

Note: All combinations were tested, and only the worst results are shown in this report.

EUT2, MIMO

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)
5431.500	42.81	-27.71	32.76	37.76	48.30	5.49	H
5451.000	42.72	-27.75	32.77	37.70	48.30	5.58	H
11490.062	36.30	-35.09	39.20	32.20	54.00	17.70	V
15737.438	40.56	-33.12	39.05	34.64	54.00	13.44	H
17828.812	44.61	-31.51	41.94	34.19	54.00	9.39	H
17920.938	44.15	-31.28	41.81	33.62	54.00	9.85	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)
5440.000	42.75	-27.73	32.77	37.71	48.30	5.55	V
5451.500	42.94	-27.75	32.77	37.91	48.30	5.36	V
11569.812	37.34	-34.94	39.19	33.10	54.00	16.66	V
15915.500	41.27	-32.90	39.08	35.09	54.00	12.73	V
17793.750	44.46	-31.54	41.99	34.01	54.00	9.54	H
17929.875	44.44	-31.25	41.80	33.90	54.00	9.56	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)
5423.000	42.92	-27.69	32.76	37.85	48.30	5.38	H
5444.500	42.76	-27.74	32.77	37.73	48.30	5.54	H
11650.250	37.49	-34.73	39.17	33.04	54.00	16.51	V
15904.500	41.44	-32.91	39.08	35.27	54.00	12.56	H
17822.625	44.74	-31.53	41.95	34.32	54.00	9.26	V
17926.438	44.55	-31.26	41.80	34.01	54.00	9.45	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)
5650.374	56.34	-27.57	33.02	50.89	68.48	12.14	H
5652.746	56.86	-27.57	33.02	51.41	70.23	13.37	H
11490.062	36.99	-35.09	39.20	32.89	54.00	17.00	H
15914.812	41.45	-32.90	39.08	35.27	54.00	12.55	H
17826.750	44.46	-31.52	41.94	34.04	54.00	9.54	V
17943.625	44.37	-31.22	41.78	33.80	54.00	9.63	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)
5452.500	42.79	-27.74	32.77	37.76	48.30	5.51	V
5458.000	42.93	-27.71	32.78	37.86	48.30	5.37	V
11569.812	37.37	-34.94	39.19	33.13	54.00	16.63	H
15917.562	41.54	-32.90	39.08	35.35	54.00	12.46	V
17740.812	44.01	-31.46	42.06	33.40	54.00	9.99	V
17918.875	44.20	-31.28	41.81	33.67	54.00	9.80	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)
5426.500	42.87	-27.70	32.76	37.81	48.30	5.43	H
5435.500	42.85	-27.72	32.76	37.80	48.30	5.45	H
11650.250	37.17	-34.73	39.17	32.73	54.00	16.83	H
16069.500	40.98	-32.97	39.30	34.65	54.00	13.02	H
17837.750	44.51	-31.49	41.92	34.07	54.00	9.49	V
17932.625	44.38	-31.25	41.79	33.84	54.00	9.62	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)
5421.500	42.91	-27.68	32.75	37.84	48.30	5.38	H
5441.000	42.91	-27.73	32.77	37.88	48.30	5.39	H
11490.062	36.93	-35.09	39.20	32.83	54.00	17.07	V
16082.562	41.20	-32.99	39.33	34.85	54.00	12.80	V
17727.062	43.67	-31.43	42.08	33.03	54.00	10.33	V
17966.312	44.00	-31.16	41.75	33.42	54.00	10.00	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)
5434.000	42.76	-27.72	32.76	37.72	48.30	5.54	V
5442.500	42.81	-27.74	32.77	37.78	48.30	5.49	V
11569.812	36.62	-34.94	39.19	32.38	54.00	17.38	V
15922.375	41.15	-32.89	39.08	34.95	54.00	12.85	H
17777.938	43.63	-31.51	42.01	33.13	54.00	10.37	H

17872.125	44.29	-31.40	41.88	33.82	54.00	9.71	H
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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)
5428.000	42.83	-27.70	32.76	37.78	48.30	5.47	H
5446.500	42.67	-27.75	32.77	37.65	48.30	5.63	H
11650.250	37.30	-34.73	39.17	32.85	54.00	16.70	V
15938.875	41.43	-32.87	39.09	35.21	54.00	12.57	V
17843.250	44.64	-31.47	41.92	34.20	54.00	9.36	V
17945.000	44.51	-31.21	41.78	33.95	54.00	9.49	V

802.11ax-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)
5430.000	42.99	-27.70	32.76	37.94	48.30	5.31	H
5448.500	42.72	-27.75	32.77	37.70	48.30	5.58	H
11490.063	36.78	-35.09	39.20	32.67	54.00	17.23	V
16123.813	41.45	-33.03	39.45	35.03	54.00	12.55	V
17725.000	44.10	-31.43	42.08	33.45	54.00	9.90	H
17865.938	44.30	-31.42	41.89	33.83	54.00	9.70	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)
5441.500	42.78	-27.73	32.77	37.74	48.30	5.52	V
5451.000	42.69	-27.75	32.77	37.67	48.30	5.61	V
11569.813	36.96	-34.94	39.19	32.72	54.00	17.04	V
15440.438	41.37	-33.35	39.02	35.70	54.00	12.63	V
17816.438	44.55	-31.54	41.95	34.14	54.00	9.45	V
17938.813	44.34	-31.23	41.78	33.79	54.00	9.66	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)
5419.500	42.90	-27.70	32.80	37.79	48.30	5.40	H
5437.500	42.90	-27.70	32.80	37.87	48.30	5.40	H