



FCC PART 15 TEST REPORT No.I23Z60483-IOT15

for

OnePlus Technology (Shenzhen) Co., Ltd.

Mobile Phone

Model Name: CPH2551

FCC ID: 2ABZ2-AA541

with

Hardware Version: 11

Software Version: OxygenOS 13.2

Issued Date: 2023-08-04

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.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the U.S. Government.

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REPORT HISTORY

Report Number	Revision	Description	Issue Date
I23Z60483-IOT15	Rev.0	1st edition	2023-07-05
I23Z60483-IOT15	Rev.1	Update statement about antenna gain and testing strategy on page 11 to 12; Update ant1/2 and ant7/10 relationship.	2023-07-19
I23Z60483-IOT15	Rev.2	Add the limit of A.4/A.5. Update the result of 99% occupied bandwidth (160M/320M). Add the description about bandwidth reduction mechanisms supported on page 148.	2023-07-26
I23Z60483-IOT15	Rev.3	Update the result of in-band emissions(160M/320M) Update the result of emission bandwidth (320M)	2023-07-27
I23Z60483-IOT15	Rev.4	Update the limit of 99% occupied bandwidth and in-band emissions(P47/96).	2023-08-04
I23Z60483-IOT15	Rev.5	Add the description for the CBP test	2023-08-24

CONTENTS

CONTENTS	3
1. TEST LATORATORY	5
1.1. INTRODUCTION & ACCREDITATION	5
1.2. TESTING LOCATION	5
1.3. TESTING ENVIRONMENT	5
1.4. PROJECT DATE	5
1.5. SIGNATURE	5
2. CLIENT INFORMATION	6
2.1 APPLICANT INFORMATION	6
2.2 MANUFACTURER INFORMATION	6
3. EQUIPMENT UNDER TEST (EUT) AND ANCILLARYEQUIPMENT(AE)	7
3.1. ABOUT EUT	7
3.2. INTERNAL IDENTIFICATION OF EUT USED DURING THE TEST	7
3.3. INTERNAL IDENTIFICATION OF AE USED DURING THE TEST	7
3.4. GENERAL DESCRIPTION	8
3.5. INTERPRETATION OF THE TEST ENVIRONMENT	8
4. REFERENCE DOCUMENTS	8
4.1. DOCUMENTS SUPPLIED BY APPLICANT	8
4.2. REFERENCE DOCUMENTS FOR TESTING	8
5. LABORATORY ENVIRONMENT	9
6. SUMMARY OF TEST RESULTS	9
6.1. SUMMARY OF TEST RESULTS	9
6.2. FOR CONDUCTED RESULT :	9
6.3. ANTENNA GAIN	11
6.4. STATEMENTS	12
6.5. TEST CONDITIONS	12
7. TEST EQUIPMENTS UTILIZED	13
8. MEASUREMENT UNCERTAINTY	14
8.1 TRANSMITTER OUTPUT POWER	14
8.2 PEAK POWER SPECTRAL DENSITY	14
8.3 99% OCCUPIED BANDWIDTH	14
8.4 OCCUPIED CHANNEL BANDWIDTH	14
8.5 BAND EDGES COMPLIANCE	14
8.6 SPURIOUS EMISSIONS	14
8.7 AC POWER-LINE CONDUCTED EMISSION	14
ANNEX A: MEASUREMENT RESULTS	15



A.1. MEASUREMENT METHOD15

A.2. MAXIMUM OUTPUT POWER17

A.3. PEAK POWER SPECTRAL DENSITY (CONDUCTED) 35

A.4. EMISSION BANDWIDTH(CONDUCTED)47

A.5. 99% OCCUPIED BANDWIDTH 95

A.6. CONTENTION BASED PROTOCOL 144

A.7. IN-BAND EMISSIONS 154

A.8. TRANSMITTER SPURIOUS EMISSION467

A.9. BAND EDGES COMPLIANCE 564

A9.1 BAND EDGES - RADIATED564

A.10. AC POWERLINE CONDUCTED EMISSION (150kHz- 30MHz)578

ANNEX B: EUT PARAMETERS.....581

ANNEX C: ACCREDITATION CERTIFICATE..... 581

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. Testing Environment

Normal Temperature: 15-35°C

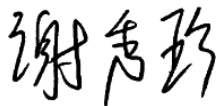
Relative Humidity: 20-75%

1.4. Project date

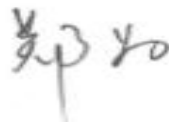
Testing Start Date: 2023-03-17

Testing End Date: 2023-07-05

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: OnePlus Technology (Shenzhen) Co., Ltd.
Address /Post: 18C02, 18C03, 18C04 and 18C05, Shum Yip Terra Building,
Binhe Avenue North, Futian District, Shenzhen
City: Shenzhen
Postal Code: /
Country: China
Telephone: (86)76986076999
Fax: /

2.2 Manufacturer Information

Company Name: OnePlus Technology (Shenzhen) Co., Ltd.
Address /Post: 18C02, 18C03, 18C04 and 18C05, Shum Yip Terra Building,
Binhe Avenue North, Futian District, Shenzhen
City: Shenzhen
Postal Code: /
Country: China
Telephone: (86)76986076999
Fax: /

3. EQUIPMENT UNDER TEST (EUT) AND

ANCILLARY EQUIPMENT (AE)

3.1. About EUT

Description	Mobile Phone
Model name	CPH2551
FCC ID	2ABZ2-AA541
WLAN Frequency Band	ISM Bands: 5925MHz~6425MHz 6425MHz~6525MHz 6525MHz~6875MHz 6875MHz~7125MHz
Type of modulation	OFDM/OFDMA
Antenna	Embedded Antenna
Voltage	3.91V
Equipment class	Dual Client

3.2. Internal Identification of EUT used during the test

EUT ID*	SN or IMEI	HW Version	SW Version
UT16a	354806760200495	11	OxygenOS 13.2
UT34a	868147060030277	11	OxygenOS 13.2
UT35a	868147060030673	11	OxygenOS 13.2

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

* UT34a/UT35a is used for Conduction test, UT16a is used for Radiation test.

3.3. Internal Identification of AE used during the test

AE ID*	Description	SN
AE1	Battery	/
AE2	Battery	/
AE3	Charger	/
AE4	USB Cable	/

AE1

Model	BLPA01
Manufacturer	Sunwoda Electronic Co., Ltd
Capacity	1470mAh
Nominal Voltage	/

AE2

Model	BLPA03
Manufacturer	Sunwoda Electronic Co., Ltd
Capacity	3210mAh

Nominal Voltage	/
AE3	
Model	VCB8JAUH
Manufacturer	Huizhou Jinhu Industrial Development Co.,Ltd
Length of cable	/
AE4	
Model	DL129
Manufacturer	OnePlus Technology(Shenzhen) Co.,.Ltd.
Length of cable	/

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

3.4. General Description

The Equipment under Test (EUT) is a model of Mobile Phone with embedded antenna and inbuilt battery.

It consists of normal options: travel charger, USB cable.

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

Samples undergoing test were selected by the client.

3.5. Interpretation of the Test Environment

For the test methods, the test environment uncertainty figures correspond to an expansion factor $k=2$.

Measurement Uncertainty

Parameter	Uncertainty
temperature	0.48°C
humidity	2 %
DC voltages	0.003V

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	Title 47 of the Code of Federal Regulations; Chapter I Part 15 - Radio frequency devices	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
KDB 987594 D02	GUIDELINES FOR COMPLIANCE TESTING OF UNLICENSED NATIONAL INFORMATION INFRASTRUCTURE 6 GHz (U-NII) DEVICES PART 15, SUBPART E	2021-02

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 Part15E	Sub-clause of IC	Verdict
Maximum Output Power	15.407	/	P
Peak Power Spectral Density	15.407	/	P
Occupied 26dB Bandwidth	15.403	/	P
99% Occupied bandwidth	/	/	P
Contention Based Protocol	/	/	P
In-Band Emissions	/	/	P
Band edge compliance (Radiated)	15.209,15.407	/	P
AC Powerline Conducted Emission (150kHz- 30MHz)	15.107, 15.207	/	P
Transmitter spurious emissions(Radiated)	15.407	/	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. For conducted result :

1. The standard client and indoor client are the same power level, thus test items according to indoor client standard to test, which is stringent limit.
2. EUT support 802.11a/ax/be modes on U-NII-5/-6/-7/-8, and can't transmit simultaneously in U-NII-5/-6/-7/-8.
3. As WLAN SISO(1x1) & MIMO(2x2) mode have the same power setting, the whole testing has assessed only MIMO mode.
4. 802.11ax support full RU and single RU modes.
5. 802.11be support full RU, single RU, small MRU, large MRU and puncturing modes.
6. For 802.11ax full RU and 802.11be full RU modes, the whole testing (includ PSD/In-band Emissions) has reported only 802.11be- EHT20/40/80/160MHz by referring to the higher output power.

7. For 802.11ax single RU and 802.11be single RU modes, the whole testing (includ PSD/In-band Emissions) has reported only 802.11be- EHT20-single RU by referring to the higher output power.
8. For 802.11be-EHT20/40MHz small MRU mode, the whole testing (includ PSD/In-band Emissions) has reported only 802.11be- EHT20 by referring to the higher output power.
 - a. For low channel : 52 Tone,index38 + 26Tone,index1 and 106 Tone,index53 + 26Tone,index4;
 - b. For high channel : 52 Tone,index39 + 26Tone,index7 and 106 Tone,index54 + 26Tone,index4.
9. For 802.11be-EHT80/160/320MHz large MRU and Puncturing modes are tested for conducted power/PSD/In-band Emissions.
10. CBP test with minimum antenna gain (Antenna 7 path, minimum gain= -4.5dBi)

Bandwidth	Pattern	index
80MHz		<p>484+242-tone Index 1 484+242-tone Index 2 484+242-tone Index 3 484+242-tone Index 4</p>
160MHz		<p>996+484+242-tone Index 1 996+484+242-tone Index 2 996+484+242-tone Index 3 996+484+242-tone Index 4 996+484+242-tone Index 5 996+484+242-tone Index 6 996+484+242-tone Index 7 996+484+242-tone Index 8</p>
160MHz		<p>996+484-tone Index1 996+484-tone Index 2 996+484-tone Index 3 996+484-tone Index 4</p>

320MHz		3×996+484-tone Index 1 3×996+484-tone Index 2 3×996+484-tone Index 3 3×996+484-tone Index 4 3×996+484-tone Index 5 3×996+484-tone Index 6 3×996+484-tone Index 7 3×996+484-tone Index 8
320MHz		3×996-tone Index 1 3×996-tone Index 2 3×996-tone Index 3 3×996-tone Index 4
320MHz		2×996+484-tone Index 1 2×996+484-tone Index 2 2×996+484-tone Index 3 2×996+484-tone Index 4 2×996+484-tone Index 5 2×996+484-tone Index 6 2×996+484-tone Index 7 2×996+484-tone Index 8 2×996+484-tone Index 9 2×996+484-tone Index 10 2×996+484-tone Index 11 2×996+484-tone Index 12

6.3. Antenna Gain

Mode	Ant7(dBi)	Ant10(dBi)	Power(dBi)	PSD(dBi)
CDD	-4.5	-0.5	-0.5	0.74
BF	-4.5	-0.5	0.74	0.74

1. For BF transmissions, power and PSD directional gain is calculated as:

Directional gain = $10 \log [(10^{G1/20} + 10^{G2/20} + \dots + 10^{Gn/20})^2 / \text{NANT}]$ dBi, as following table for PSD.

NANT = number of transmit antennas NSS = number of spatial streams. (The worst case directional gain will occur when NSS = 1)

2. For CDD transmissions, directional gain is calculated as:

a. For power, the directional gain GANT is set equal to the antenna having the highest gain, i.e., Directional gain = GANT MAX (Ant.1 Gain, Ant.2 Gain, ...) + Array Gain, where Array Gain = 0 dB (i.e., no array gain) for NANT ≤ 4.

b. For PSD, the directional gain calculation is following:

Directional gain = $10 \log [(10^{G1/20} + 10^{G2/20} + \dots + 10^{Gn/20})^2 / \text{NANT}]$ dBi. NANT = number of transmit antennas NSS = number of spatial streams. (The worst case directional gain will occur when NSS = 1).

3. 802.11a support CDD and STBC mode, as both of the STBC and CDD use the same power setting, only eirp results of CDD have been reported.

4. 802.11ax/be support CDD, BF and STBC mode, as they use the same power setting, only eirp results of BF have been reported.

5. The device what use a permanently attached antenna were considered sufficient to comply with the provisions of 15.203.

6.4. 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 4.2.

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

KDB 987594 is not accredited by the NVLAP.

6.5. 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	3.91V
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	Vector Signal Generator	SMW200A	103421	Rohde & Schwarz	1 year	2024-06-15
3	Test Receiver	ESCI	100344	Rohde & Schwarz	1 year	2024-02-21
4	LISN	ENV216	101200	Rohde & Schwarz	1 year	2023-06-29
5	Attenuator	10dB/2W	/	Rosenberger	/	/
6	Shielding Room	S81	/	ETS-Lindgren	/	/

Instrument	Software Version	Board Model
WLAN AP	IPQ9574.ILQ.12.1-00367-P-1	RDP433

Radiated emission test system

No.	Equipment	Model	Serial Number	Manufacturer	Calibration Period	Calibration Due date
1	Test Receiver	ESW44	103144	Rohde & Schwarz	1 year	2023-10-25
2	Dual-Ridge Waveguide Horn Antenna	VULB 9163	01223	Schwarzbeck	1 year	2023-07-25
3	Dual-Ridge Waveguide Horn Antenna	3115	00167250	ETS-Lindgren	1 year	2023-06-20
4	Dual-Ridge Waveguide Horn 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 99% Occupied bandwidth

Measurement Uncertainty: 60.80Hz, k=1.96

8.4 Occupied Channel Bandwidth

Measurement Uncertainty: 60.80Hz, k=1.96

8.5 Band Edges Compliance

Measurement Uncertainty : 0.62dB,k=1.96

8.6 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	/
$30\text{MHz} \leq f \leq 1\text{GHz}$	4.92
$1\text{GHz} \leq f \leq 18\text{GHz}$	5.15
$18\text{GHz} \leq f \leq 40\text{GHz}$	5.54

8.7 AC Power-line Conducted Emission

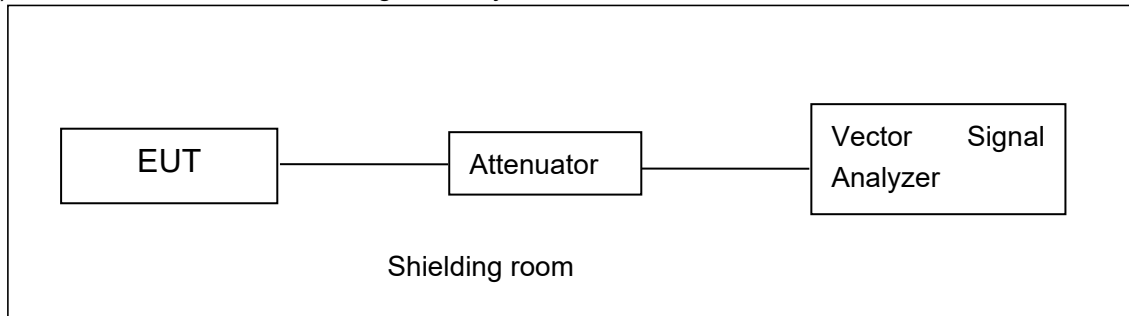
8.8 Measurement Uncertainty : 3.08,k=2

ANNEX A: MEASUREMENT RESULTS

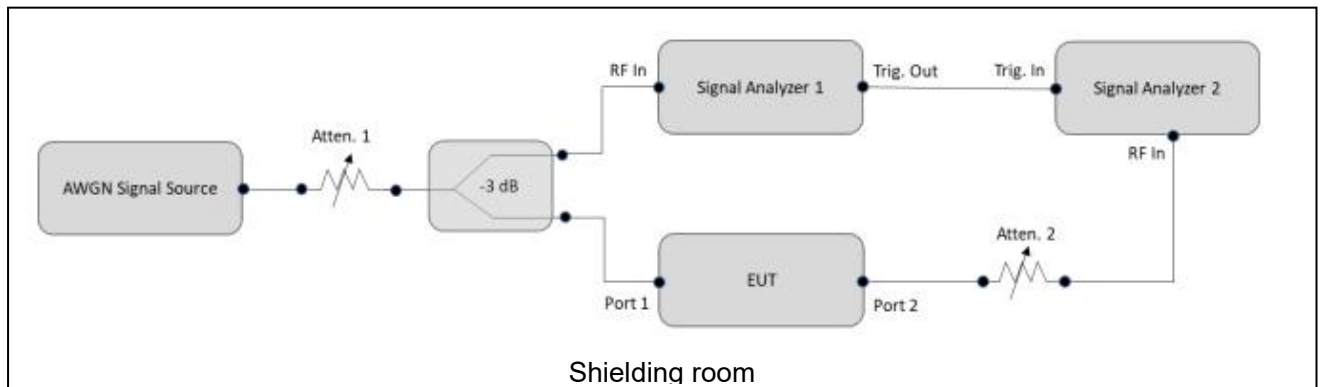
A.1. Measurement Method

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



Test Setup for Maximum Output Power, Peak Power Spectral Density, Occupied 26dB Bandwidth, 99% Occupied bandwidth, In-Band Emissions



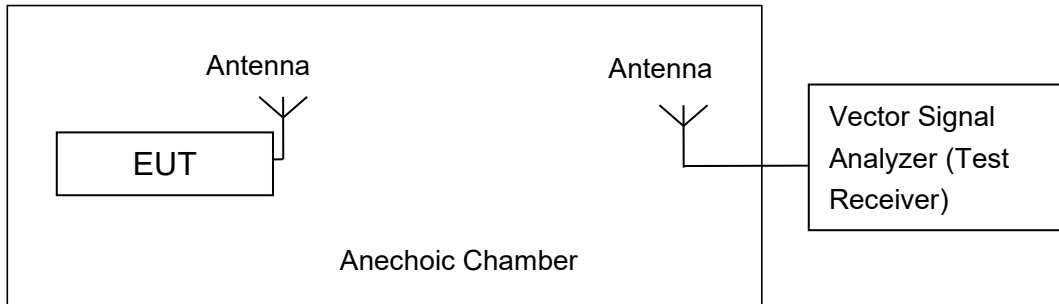
Test Setup for Contention Based Protocol

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 40GHz, RBW = 1MHz, VBW = 10Hz;



The measurement is made according to KDB 789033 and 987594

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 output Power

Measurement Limit and Method:

Standard	Frequency (MHz)	e.i.r.p Limit (dBm)
FCC CRF Part 15.407(a)	5925MHz~6425MHz	24dBm
	6425MHz~6525MHz	24dBm
	6525MHz~6875MHz	24dBm
	6875MHz~7125MHz	24dBm

The measurement method SA-2 is made according to KDB 987594 and KDB 789033.

Measurement Results:

MIMO

802.11a mode

Frequency	Test Result (dBm)			
	Data Rate			
	802.11a 6Mbps			
	Ant7	Ant10	Sum Conducted	Sum e.i.r.p
5955MHz (Ch1)	4.37	4.40	7.40	6.90
6175MHz (Ch45)	4.28	4.35	7.33	6.83
6415MHz (Ch93)	4.62	4.29	7.47	6.97
6435MHz (Ch97)	4.72	4.34	7.54	7.04
6475MHz (Ch105)	4.31	4.48	7.41	6.91
6515MHz (Ch113)	4.37	4.21	7.30	6.80
6535MHz (Ch117)	4.15	4.32	7.25	6.75
6695MHz (Ch149)	4.37	4.39	7.39	6.89
6855MHz (Ch181)	4.52	4.32	7.43	6.93
6875MHz (Ch185)	4.39	4.26	7.34	6.84
6895MHz (ch189)	4.25	4.14	7.21	6.71
6995MHz (Ch209)	4.47	4.50	7.50	7.00
7115MHz (Ch233)	-5.08	-4.94	-2.00	-2.50

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

802.11ax HE20(full RU) mode

Frequency	Test Result (dBm)			
	Data Rate			
	802.11ax HE20 MCS0			
	Ant7	Ant10	Sum Conducted	Sum e.i.r.p
5955MHz (Ch1)	4.69	4.55	7.63	8.37
6175MHz (Ch45)	4.52	4.60	7.57	8.31
6415MHz (Ch93)	4.97	4.54	7.77	8.51
6435MHz (Ch97)	5.22	4.63	7.95	8.69
6475MHz (Ch105)	4.81	4.81	7.82	8.56
6515MHz (Ch113)	4.87	4.61	7.75	8.49
6535MHz (Ch117)	4.66	4.72	7.70	8.44
6695MHz (Ch149)	5.00	4.75	7.89	8.63
6855MHz (Ch181)	4.90	4.70	7.81	8.55
6875MHz (Ch185)	4.75	4.59	7.68	8.42
6895MHz (ch189)	4.57	4.46	7.53	8.27
6995MHz (Ch209)	4.80	4.80	7.81	8.55
7115MHz (Ch233)	-5.45	-5.21	-2.32	-2.82

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

802.11ax-HE40(full RU) mode

Frequency	Test Result (dBm)			
	Data Rate			
	802.11ax HE40 MCS0			
	Ant7	Ant10	Sum Conducted	Sum e.i.r.p
5965MHz (Ch3)	7.75	8.41	11.10	11.84
6165MHz (Ch43)	7.27	7.43	10.36	11.10
6405MHz (Ch91)	7.32	7.95	10.66	11.40
6445MHz (Ch99)	8.16	8.05	11.12	11.86
6485MHz (Ch107)	8.37	8.35	11.37	12.11

6525MHz (Ch115)	8.13	8.47	11.31	12.05
6565MHz (Ch123)	7.97	8.58	11.30	12.04
6685MHz (Ch147)	8.20	8.15	11.19	11.93
6845MHz (Ch179)	7.06	7.68	10.39	11.13
6885MHz (Ch187)	7.46	7.51	10.50	11.24
6925MHz (ch195)	7.31	7.47	10.40	11.14
6965MHz (Ch203)	7.71	7.78	10.76	11.50
7085MHz (Ch227)	7.81	7.78	10.81	11.55

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

802.11ax-HE80(full RU) mode

Frequency	Test Result (dBm)			
	Data Rate			
	802.11ax HE80 MCS0			
	Ant7	Ant10	Sum Conducted	Sum e.i.r.p
5985MHz (Ch7)	9.10	9.65	12.39	13.13
6145MHz (Ch39)	9.13	9.28	12.22	12.96
6385MHz (Ch87)	9.26	10.25	12.79	13.53
6465MHz (Ch103)	9.32	9.62	12.48	13.22
6545MHz (Ch119)	9.32	9.66	12.50	13.24
6625MHz (Ch135)	9.47	9.62	12.56	13.30
6705MHz (Ch151)	9.43	9.96	12.71	13.45
6785MHz (Ch167)	9.33	9.67	12.51	13.25
6865MHz (Ch183)	9.49	9.49	12.50	13.24
6945MHz (Ch199)	9.39	9.85	12.64	13.38
7025MHz (Ch215)	9.36	9.93	12.66	13.40

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

802.11ax-HE160(full RU) mode

Frequency	Test Result (dBm)			
	Data Rate			
	802.11ax HE160 MCS0			
	Ant7	Ant10	Sum Conducted	Sum e.i.r.p
6025MHz (Ch15)	9.00	9.49	12.26	13.00
6185MHz (Ch47)	9.63	9.25	12.45	13.19
6345MHz (Ch79)	9.12	10.26	12.74	13.48
6505MHz (Ch111)	9.25	9.15	12.21	12.95
6665MHz (Ch143)	9.28	9.39	12.35	13.09
6825MHz (Ch175)	9.24	9.62	12.44	13.18
6985MHz (Ch207)	9.17	9.39	12.29	13.03

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

802.11be HE20(full RU) mode

Frequency	Test Result (dBm)			
	Data Rate			
	802.11be HE20 MCS0			
	Ant7	Ant10	Sum Conducted	Sum e.i.r.p
5955MHz (Ch1)	5.12	4.69	7.92	8.66
6175MHz (Ch45)	5.00	4.76	7.89	8.63
6415MHz (Ch93)	5.36	4.62	8.02	8.76
6435MHz (Ch97)	5.63	4.79	8.24	8.98
6475MHz (Ch105)	5.41	4.91	8.18	8.92
6515MHz (Ch113)	5.36	4.70	8.05	8.79
6535MHz (Ch117)	5.11	4.85	7.99	8.73
6695MHz (Ch149)	5.34	4.93	8.15	8.89
6855MHz (Ch181)	5.24	4.89	8.08	8.82
6875MHz (Ch185)	5.13	4.67	7.92	8.66

6895MHz (ch189)	5.02	4.63	7.84	8.58
6995MHz (Ch209)	5.15	4.92	8.05	8.79
7115MHz (Ch233)	-4.82	-4.72	-1.76	-2.26

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

802.11be-HE40(full RU) mode

Frequency	Test Result (dBm)			
	Data Rate			
	802.11be HE40 MCS0			
	Ant7	Ant10	Sum Conducted	Sum e.i.r.p
5965MHz (Ch3)	7.60	8.21	10.93	11.67
6165MHz (Ch43)	7.13	7.33	10.24	10.98
6405MHz (Ch91)	7.17	7.94	10.58	11.32
6445MHz (Ch99)	7.96	8.10	11.04	11.78
6485MHz (Ch107)	8.34	8.39	11.38	12.12
6525MHz (Ch115)	8.17	8.36	11.28	12.02
6565MHz (Ch123)	8.02	8.50	11.28	12.02
6685MHz (Ch147)	8.20	8.25	11.24	11.98
6845MHz (Ch179)	7.00	7.61	10.33	11.07
6885MHz (Ch187)	7.32	7.43	10.39	11.13
6925MHz (ch195)	7.23	7.33	10.29	11.03
6965MHz (Ch203)	7.70	7.74	10.73	11.47
7085MHz (Ch227)	7.67	7.68	10.69	11.43

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

802.11be-HE80(full RU) mode

Frequency	Test Result (dBm)			
	Data Rate			
	802.11be HE80 MCS0			

	Ant7	Ant10	Sum Conducted	Sum e.i.r.p
5985MHz (Ch7)	9.16	9.67	12.43	13.17
6145MHz (Ch39)	9.25	9.22	12.25	12.99
6385MHz (Ch87)	9.31	10.34	12.87	13.61
6465MHz (Ch103)	9.35	9.67	12.52	13.26
6545MHz (Ch119)	9.43	9.84	12.65	13.39
6625MHz (Ch135)	9.49	9.65	12.58	13.32
6705MHz (Ch151)	9.53	9.99	12.78	13.52
6785MHz (Ch167)	9.36	9.82	12.61	13.35
6865MHz (Ch183)	9.46	9.64	12.56	13.30
6945MHz (Ch199)	9.34	9.90	12.64	13.38
7025MHz (Ch215)	9.43	9.90	12.68	13.42

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

802.11be-HE160(full RU) mode

Frequency	Test Result (dBm)			
	Data Rate			
	802.11be HE160 MCS0			
	Ant7	Ant10	Sum Conducted	Sum e.i.r.p
6025MHz(Ch15)	9.19	9.71	12.47	13.21
6185MHz(Ch47)	9.43	9.14	12.30	13.04
6345MHz(Ch79)	9.05	10.01	12.57	13.31
6505MHz(Ch111)	9.54	9.98	12.78	13.52
6665MHz(Ch143)	9.66	9.68	12.68	13.42
6825MHz(Ch175)	9.08	9.41	12.26	13.00
6985MHz(Ch207)	9.19	9.80	12.52	13.26

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

802.11be-HE320(full RU) mode

Frequency	Test Result (dBm)			
	Data Rate			
	802.11be HE320 MCS0			
	Ant7	Ant10	Sum Conducted	Sum e.i.r.p
6105MHz (Ch31)	9.49	9.47	12.49	13.23
6265MHz (Ch63)	9.45	10.55	13.05	13.79
6425MHz (Ch95)	9.41	9.30	12.37	13.11
6585MHz (Ch127)	9.30	9.26	12.29	13.03
6745MHz (Ch159)	9.56	9.84	12.71	13.45
6905MHz (Ch191)	9.34	9.64	12.50	13.24

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

802.11ax-20 single RU

Mode	Channel	Test Result (dBm)			
		ant7	ant10	mimo	mimo eirp
		MCS0	MCS0	MCS0	MCS0
RU26-I	5955MHz (Ch1)	-4.22	-4.41	-1.30	-0.56
	6175MHz (Ch45)	-4.05	-4.39	-1.21	-0.47
	6415MHz (Ch93)	-4.14	-4.80	-1.45	-0.71
	6435MHz (Ch97)	-3.85	-5.03	-1.39	-0.65
	6475MHz (Ch105)	-4.58	-5.01	-1.78	-1.04
	6515MHz (Ch113)	-4.34	-4.97	-1.63	-0.89
RU26-R	6535MHz (Ch117)	-4.78	-4.91	-1.83	-1.09
	6695MHz (Ch149)	-4.75	-4.63	-1.68	-0.94
	6855MHz (Ch181)	-6.06	-4.97	-2.47	-1.73
	6875MHz (Ch185)	-6.01	-4.85	-2.38	-1.64
	6895MHz (ch189)	-6.06	-4.94	-2.45	-1.71
	6995MHz (Ch209)	-5.83	-4.98	-2.37	-1.63
	7115MHz (Ch233)	-5.29	-4.42	-1.82	-2.32
Mode	Channel	Test Result (dBm)			
		ant7	ant10	mimo	mimo eirp
		MCS0	MCS0	MCS0	MCS0
RU52-I	5955MHz (Ch1)	-1.27	-1.04	1.86	2.60

	6175MHz (Ch45)	-1.22	-0.92	1.94	2.68
	6415MHz (Ch93)	-1.12	-1.25	1.83	2.57
	6435MHz (Ch97)	-0.99	-1.65	1.70	2.44
	6475MHz (Ch105)	-1.58	-1.68	1.38	2.12
	6515MHz (Ch113)	-1.42	-1.62	1.49	2.23
RU52-R	6535MHz (Ch117)	-1.96	-1.29	1.40	2.14
	6695MHz (Ch149)	-1.94	-1.24	1.43	2.17
	6855MHz (Ch181)	-3.32	-2.07	0.36	1.10
	6875MHz (Ch185)	-2.86	-1.58	0.84	1.58
	6895MHz (ch189)	-3.10	-2.00	0.50	1.24
	6995MHz (Ch209)	-2.98	-2.38	0.34	1.08
	7115MHz (Ch233)	-4.91	-4.86	-1.87	-2.37
Mode	Channel	Test Result (dBm)			
		ant7	ant10	mimo	mimo eirp
		MCS0	MCS0	MCS0	MCS0
RU106-I	5955MHz (Ch1)	1.51	1.55	4.54	5.28
	6175MHz (Ch45)	1.97	1.93	4.96	5.70
	6415MHz (Ch93)	2.15	1.57	4.88	5.62
	6435MHz (Ch97)	1.95	1.27	4.63	5.37
	6475MHz (Ch105)	2.07	1.40	4.76	5.50
	6515MHz (Ch113)	2.24	1.22	4.77	5.51
RU106-R	6535MHz (Ch117)	0.51	1.42	4.00	4.74
	6695MHz (Ch149)	1.45	1.78	4.63	5.37
	6855MHz (Ch181)	0.49	0.84	3.68	4.42
	6875MHz (Ch185)	0.53	0.19	3.37	4.11
	6895MHz (ch189)	0.45	0.33	3.40	4.14
	6995MHz (Ch209)	1.12	0.71	3.93	4.67
	7115MHz (Ch233)	-4.86	-4.81	-1.82	-2.32

802.11be-20 single RU

Mode	Channel	Test Result (dBm)			
		ant7	ant10	mimo	mimo eirp
		MCS0	MCS0	MCS0	MCS0
RU26-I	5955MHz (Ch1)	-4.47	-4.49	-1.47	-0.73
	6175MHz (Ch45)	-4.34	-4.57	-1.44	-0.70
	6415MHz (Ch93)	-4.25	-4.94	-1.57	-0.83
	6435MHz (Ch97)	-4.25	-5.35	-1.75	-1.01
	6475MHz (Ch105)	-4.84	-5.32	-2.06	-1.32
	6515MHz (Ch113)	-4.52	-5.27	-1.87	-1.13

RU26-R	6535MHz (Ch117)	-4.77	-5.09	-1.92	-1.18
	6695MHz (Ch149)	-4.72	-4.75	-1.72	-0.98
	6855MHz (Ch181)	-6.15	-5.34	-2.72	-1.98
	6875MHz (Ch185)	-6.18	-5.28	-2.70	-1.96
	6895MHz (ch189)	-6.18	-5.41	-2.77	-2.03
	6995MHz (Ch209)	-5.95	-5.43	-2.67	-1.93
	7115MHz (Ch233)	-5.35	-4.83	-2.07	-2.57
Mode	Channel	Test Result (dBm)			
		ant7	ant10	mimo	mimo eirp
		MCS0	MCS0	MCS0	MCS0
RU52-I	5955MHz (Ch1)	-1.34	-1.59	1.55	2.29
	6175MHz (Ch45)	-1.20	-1.56	1.63	2.37
	6415MHz (Ch93)	-1.24	-1.96	1.43	2.17
	6435MHz (Ch97)	-1.08	-2.32	1.35	2.09
	6475MHz (Ch105)	-1.71	-2.24	1.04	1.78
	6515MHz (Ch113)	-1.30	-2.15	1.31	2.05
RU52-R	6535MHz (Ch117)	-1.94	-1.82	1.13	1.87
	6695MHz (Ch149)	-1.85	-1.66	1.26	2.00
	6855MHz (Ch181)	-3.32	-2.40	0.17	0.91
	6875MHz (Ch185)	-3.18	-2.31	0.29	1.03
	6895MHz (ch189)	-3.21	-2.51	0.16	0.90
	6995MHz (Ch209)	-2.86	-2.58	0.29	1.03
	7115MHz (Ch233)	-4.85	-4.65	-1.74	-2.24
Mode	Channel	Test Result (dBm)			
		ant7	ant10	mimo	mimo eirp
		MCS0	MCS0	MCS0	MCS0
RU106-I	5955MHz (Ch1)	2.09	1.87	4.99	5.73
	6175MHz (Ch45)	2.06	2.00	5.04	5.78
	6415MHz (Ch93)	1.99	1.53	4.78	5.52
	6435MHz (Ch97)	2.28	1.21	4.79	5.53
	6475MHz (Ch105)	1.71	1.27	4.51	5.25
	6515MHz (Ch113)	2.04	1.37	4.73	5.47
RU106-R	6535MHz (Ch117)	1.45	1.63	4.55	5.29
	6695MHz (Ch149)	1.68	1.87	4.79	5.53
	6855MHz (Ch181)	0.34	1.10	3.75	4.49
	6875MHz (Ch185)	0.59	1.29	3.96	4.70
	6895MHz (ch189)	0.50	1.02	3.78	4.52

	6995MHz (Ch209)	0.80	0.90	3.86	4.60
	7115MHz (Ch233)	-4.64	-4.50	-1.56	-2.06

802.11be-20 MRU(small)

Mode	Channel	Test Result (dBm)			
		ant7	ant10	mimo	mimo eirp
		MCS0	MCS0	MCS0	MCS0
52 Tone,index38 + 26Tone,index1	5955MHz (Ch1)	-1.59	-1.82	1.31	2.05
	6175MHz (Ch45)	-1.63	-1.67	1.36	2.10
	6415MHz (Ch93)	-1.56	-1.99	1.24	1.98
	6435MHz (Ch97)	-1.13	-2.42	1.28	2.02
	6475MHz (Ch105)	-1.68	-2.32	1.02	1.76
	6515MHz (Ch113)	-1.49	-2.24	1.16	1.90
52 Tone,index39 + 26Tone,index7	6535MHz (Ch117)	-2.16	-1.83	1.02	1.76
	6695MHz (Ch149)	-1.86	-1.64	1.26	2.00
	6855MHz (Ch181)	-2.82	-2.51	0.35	1.09
	6875MHz (Ch185)	-2.52	-2.28	0.61	1.35
	6895MHz (ch189)	-2.66	-2.53	0.42	1.16
	6995MHz (Ch209)	-2.64	-2.65	0.37	1.11
	7115MHz (Ch233)	-4.58	-4.66	-1.61	-2.11
Mode	Channel	Test Result (dBm)			
		ant7	ant10	mimo	mimo eirp
		MCS0	MCS0	MCS0	MCS0
106 Tone,index53 + 26Tone,index4	5955MHz (Ch1)	2.11	1.68	4.91	5.65
	6175MHz (Ch45)	2.00	1.75	4.89	5.63
	6415MHz (Ch93)	1.91	1.40	4.67	5.41
	6435MHz (Ch97)	2.24	1.07	4.70	5.44
	6475MHz (Ch105)	1.64	1.20	4.44	5.18
	6515MHz (Ch113)	1.92	1.31	4.64	5.38
106 Tone,index54 + 26Tone,index4	6535MHz (Ch117)	1.45	1.60	4.54	5.28
	6695MHz (Ch149)	1.72	1.75	4.75	5.49
	6855MHz (Ch181)	0.63	0.98	3.82	4.56
	6875MHz (Ch185)	0.90	1.18	4.05	4.79
	6895MHz (ch189)	0.72	0.95	3.85	4.59
	6995MHz (Ch209)	0.87	0.78	3.84	4.58
	7115MHz (Ch233)	-4.68	-4.67	-1.66	-2.16

802.11be-80 MRU(large) & punctured

Mode	Channel	Tone	Test Result (dBm)				
			configure	ant7	ant10	mimo	mimo eirp
				MCS0	MCS0	MCS0	MCS0
802.11be-80	5985MHz (Ch7)	484+242 Tone	1	8.66	8.46	11.57	12.31
			2	8.59	8.48	11.55	12.29
			3	8.53	8.45	11.50	12.24
			4	8.60	8.40	11.51	12.25
	6145MHz (Ch39)	484+242 Tone	1	8.63	8.36	11.51	12.25
			2	8.58	8.43	11.52	12.26
			3	8.52	8.42	11.48	12.22
			4	8.62	8.48	11.56	12.30
	6385MHz (Ch87)	484+242 Tone	1	8.24	8.55	11.41	12.15
			2	8.08	8.33	11.22	11.96
			3	7.99	8.34	11.18	11.92
			4	8.13	8.34	11.25	11.99
	6465MHz (Ch103)	484+242 Tone	1	8.11	8.19	11.16	11.90
			2	8.13	8.15	11.15	11.89
			3	8.11	8.04	11.09	11.83
			4	7.94	8.04	11.00	11.74
	6545MHz (Ch119)	484+242 Tone	1	8.20	8.30	11.26	12.00
			2	8.21	8.25	11.24	11.98
			3	8.06	8.29	11.19	11.93
			4	8.24	8.28	11.27	12.01
	6625MHz (Ch135)	484+242 Tone	1	8.89	8.44	11.68	12.42
			2	8.92	8.39	11.67	12.41
			3	8.92	8.37	11.66	12.40
			4	8.78	8.35	11.58	12.32
	6705MHz (Ch151)	484+242 Tone	1	8.96	8.40	11.70	12.44
			2	8.83	8.40	11.63	12.37
			3	8.88	8.43	11.67	12.41
			4	8.94	8.50	11.74	12.48
	6785MHz (Ch167)	484+242 Tone	1	7.39	7.50	10.46	11.20
			2	7.52	7.58	10.56	11.30
			3	7.52	7.65	10.60	11.34
			4	7.61	7.70	10.67	11.41
	6865MHz (Ch183)	484+242 Tone	1	7.77	7.92	10.86	11.60
			2	7.70	7.93	10.83	11.57
			3	7.77	7.88	10.84	11.58
			4	7.71	7.92	10.83	11.57

	6945MHz (Ch199)	484+242 Tone	1	7.92	8.10	11.02	11.76
			2	7.93	8.13	11.04	11.78
			3	7.84	8.06	10.96	11.70
			4	7.87	8.05	10.97	11.71
	7025MHz (Ch215)	484+242 Tone	1	8.40	7.75	11.10	11.84
			2	8.19	7.64	10.93	11.67
			3	8.30	7.70	11.02	11.76
			4	8.16	7.64	10.92	11.66

802.11be-160 MRU(large) & punctured

Mode	Channel	Tone	Test Result (dBm)				
			configure	ant7	ant10	mimo	mimo eirp
				MCS0	MCS0	MCS0	MCS0
802.11be-160	6025MHz (Ch15)	996+484+242 Tone	1	9.67	10.71	13.23	13.97
			2	9.56	10.73	13.19	13.93
			3	9.67	10.70	13.23	13.97
			4	9.67	10.68	13.21	13.95
			5	9.65	10.79	13.27	14.01
			6	9.61	10.67	13.18	13.92
			7	9.64	10.62	13.17	13.91
			8	9.58	10.66	13.16	13.90
	6185MHz (Ch47)	996+484+242 Tone	1	10.06	10.60	13.35	14.09
			2	10.04	10.56	13.32	14.06
			3	10.01	10.66	13.36	14.10
			4	10.11	10.67	13.41	14.15
			5	10.10	10.75	13.45	14.19
			6	10.09	10.73	13.43	14.17
			7	10.04	10.71	13.40	14.14
			8	10.07	10.65	13.38	14.12
	6345MHz (Ch79)	996+484+242 Tone	1	9.62	10.48	13.08	13.82
			2	9.55	10.50	13.06	13.80
			3	9.64	10.54	13.12	13.86
			4	9.61	10.57	13.13	13.87
			5	9.66	10.52	13.12	13.86
			6	9.63	10.53	13.11	13.85
			7	9.57	10.49	13.06	13.80
			8	9.58	10.46	13.05	13.79
	6505MHz (Ch111)	996+484+242 Tone	1	9.65	10.32	13.01	13.75
			2	9.59	10.30	12.97	13.71
			3	9.64	10.28	12.98	13.72
			4	9.52	10.29	12.93	13.67

			5	9.65	10.22	12.95	13.69
			6	9.62	10.24	12.95	13.69
			7	9.60	10.30	12.97	13.71
			8	9.59	10.21	12.92	13.66
	6665MHz (Ch143)	996+484+242 Tone	1	10.42	10.54	13.49	14.23
			2	10.36	10.56	13.47	14.21
			3	10.45	10.51	13.49	14.23
			4	10.32	10.54	13.44	14.18
			5	10.47	10.58	13.54	14.28
			6	10.40	10.48	13.45	14.19
			7	10.39	10.50	13.46	14.20
			8	10.43	10.53	13.49	14.23
	6825MHz (Ch175)	996+484+242 Tone	1	9.19	9.65	12.44	13.18
			2	9.20	9.64	12.44	13.18
			3	9.26	9.70	12.50	13.24
			4	9.33	9.72	12.54	13.28
			5	9.38	9.74	12.57	13.31
			6	9.28	9.75	12.53	13.27
			7	9.30	9.72	12.53	13.27
			8	9.26	9.71	12.50	13.24
	6985MHz (Ch207)	996+484+242 Tone	1	9.82	9.66	12.75	13.49
			2	9.88	9.66	12.78	13.52
			3	9.80	9.71	12.77	13.51
			4	9.85	9.63	12.75	13.49
			5	9.87	9.69	12.79	13.53
			6	9.74	9.70	12.73	13.47
			7	9.83	9.65	12.75	13.49
			8	9.75	9.59	12.68	13.42
Mode	Channel	Tone	Test Result (dBm)				
			configure	ant7 MCS0	ant10 MCS0	mimo MCS0	mimo eirp MCS0
802.11be-160	6025MHz (Ch15)	996+484 Tone	1	10.37	10.66	13.53	14.27
			2	10.38	10.69	13.55	14.29
			3	10.27	10.73	13.52	14.26
			4	10.29	10.57	13.44	14.18
	6185MHz (Ch47)	996+484 Tone	1	10.64	10.49	13.58	14.32
			2	10.65	10.52	13.60	14.34
			3	10.75	10.66	13.72	14.46
			4	10.74	10.70	13.73	14.47
	6345MHz	996+484 Tone	1	10.18	10.44	13.32	14.06

	(Ch79)		2	10.24	10.52	13.39	14.13
	3		10.29	10.38	13.35	14.09	
	4		10.21	10.36	13.30	14.04	
	6505MHz (Ch111)	996+484 Tone	1	10.20	10.32	13.27	14.01
			2	10.15	10.31	13.24	13.98
			3	10.16	10.14	13.16	13.90
			4	10.09	10.23	13.17	13.91
	6665MHz (Ch143)	996+484 Tone	1	10.87	10.41	13.66	14.40
			2	10.88	10.41	13.66	14.40
			3	10.90	10.44	13.69	14.43
			4	10.85	10.47	13.67	14.41
	6825MHz (Ch175)	996+484 Tone	1	9.59	9.50	12.56	13.30
			2	9.74	9.59	12.68	13.42
			3	9.82	9.70	12.77	13.51
			4	9.77	9.65	12.72	13.46
	6985MHz (Ch207)	996+484 Tone	1	10.36	9.62	13.02	13.76
2			10.31	9.64	13.00	13.74	
3			10.37	9.66	13.04	13.78	
4			10.30	9.58	12.97	13.71	

802.11be-320 MRU(large) & punctured

Mode	Channel	Tone	Test Result (dBm)				
			configure	ant7	ant10	mimo	mimo eirp
				MCS0	MCS0	MCS0	MCS0
802.11be-320	6105MHz (Ch31)	2x996+484 Tone	1	9.71	9.57	12.65	13.39
			2	9.57	9.39	12.49	13.23
			3	9.61	9.56	12.60	13.34
			4	9.71	9.68	12.71	13.45
			5	9.71	9.66	12.70	13.44
			6	9.65	9.66	12.67	13.41
			7	9.54	9.32	12.44	13.18
			8	9.5	9.32	12.42	13.16
			9	9.43	9.21	12.33	13.07
			10	9.37	9.31	12.35	13.09
			11	9.44	9.23	12.35	13.09
			12	9.48	9.28	12.39	13.13
		3x996 Tone	1	9.59	9.38	12.50	13.24
			2-	9.61	9.37	12.50	13.24
			3	9.79	9.56	12.69	13.43
			4	9.6	9.52	12.57	13.31
3x996+484	1	9.54	9.42	12.49	13.23		

	Tone	2	9.59	9.43	12.52	13.26	
		3	9.65	9.53	12.60	13.34	
		4	9.58	9.42	12.51	13.25	
		5	10.07	9.58	12.84	13.58	
		6	9.76	9.57	12.68	13.42	
		7	9.69	9.54	12.63	13.37	
		8	9.51	9.52	12.53	13.27	
		6265MHz (Ch63)	2x996+484 Tone	1	9.54	10.61	13.12
	2			9.57	10.52	13.08	13.82
	3			9.58	10.58	13.12	13.86
	4			9.54	10.64	13.14	13.88
	5			9.51	10.55	13.07	13.81
	6			9.45	10.47	13.00	13.74
	7			9.69	10.7	13.23	13.97
	8			9.57	10.67	13.17	13.91
	9			9.28	10.32	12.84	13.58
	10			9.2	10.35	12.82	13.56
	11			9.27	10.31	12.83	13.57
	12			9.24	10.36	12.85	13.59
	3x996 Tone	1	9.59	10.6	13.13	13.87	
		2	9.54	10.64	13.14	13.88	
		3	9.44	10.6	13.07	13.81	
		4	9.44	10.47	13.00	13.74	
		3x996+484 Tone	1	9.44	10.54	13.04	13.78
			2	9.49	10.55	13.06	13.80
			3	9.53	10.58	13.10	13.84
			4	9.44	10.55	13.04	13.78
	5		9.35	10.62	13.04	13.78	
	6		9.57	10.6	13.13	13.87	
	7		9.54	10.55	13.08	13.82	
	8		9.27	10.45	12.91	13.65	
	6425MHz (Ch95)	2x996+484 Tone	1	9.97	10.09	13.04	13.78
			2	9.86	9.98	12.93	13.67
3			9.91	9.97	12.95	13.69	
4			10.05	10.15	13.11	13.85	
5			10.11	10.08	13.11	13.85	
6			10	10.02	13.02	13.76	
7			9.89	10.07	12.99	13.73	
8			9.87	10.11	13.00	13.74	
9			9.57	9.87	12.73	13.47	
10			9.67	9.84	12.77	13.51	

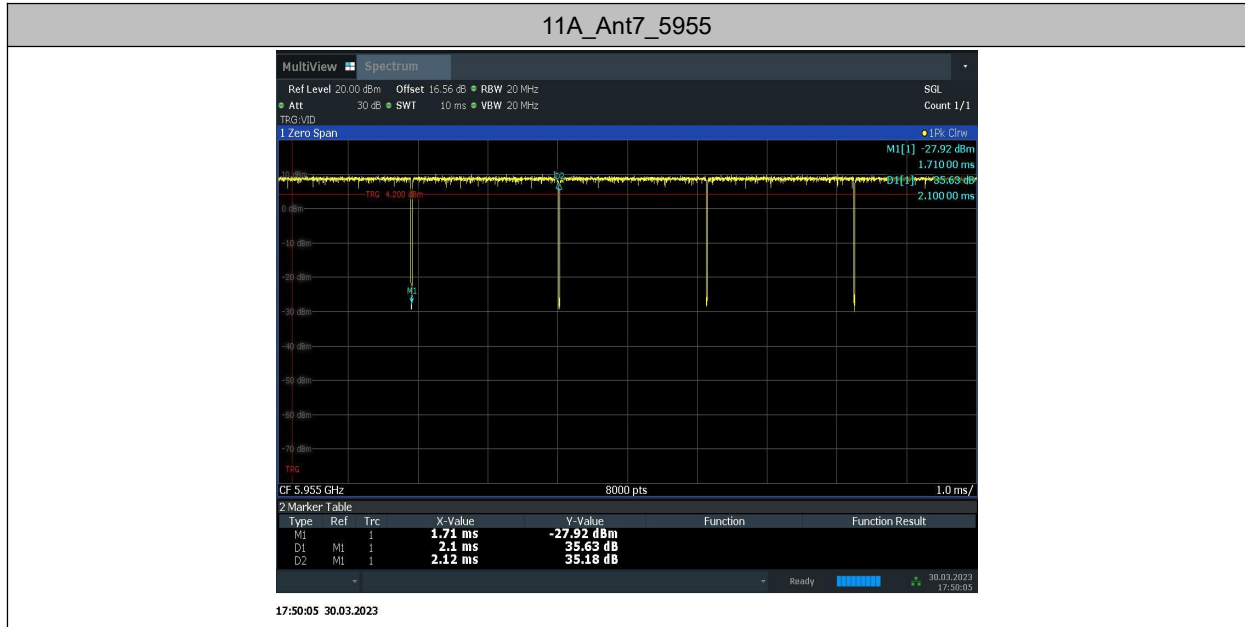
			11	9.68	9.94	12.82	13.56
			12	9.72	9.95	12.85	13.59
		3x996 Tone	1	9.89	10.09	13.00	13.74
			2	9.9	10.05	12.99	13.73
			3	10.13	10.14	13.15	13.89
			4	9.93	9.96	12.96	13.70
		3x996+484 Tone	1	9.79	10.02	12.92	13.66
			2	9.91	10.05	12.99	13.73
			3	9.95	10.06	13.02	13.76
			4	9.92	10.02	12.98	13.72
	5		10.01	10.14	13.09	13.83	
	6		10.06	10.17	13.13	13.87	
	6585MHz (Ch127)	2x996+484 Tone	1	9.89	10.23	13.07	13.81
			2	9.87	10.18	13.04	13.78
			3	9.74	10.17	12.97	13.71
			4	9.82	10.18	13.01	13.75
			5	9.72	9.95	12.85	13.59
			6	9.68	10.1	12.91	13.65
			7	9.81	10.17	13.00	13.74
			8	9.71	10.15	12.95	13.69
9			9.27	9.71	12.51	13.25	
10			9.22	9.73	12.49	13.23	
11			9.29	9.69	12.50	13.24	
12			9.22	9.72	12.49	13.23	
	3x996 Tone	1	9.8	10.11	12.97	13.71	
		2	9.65	10.03	12.85	13.59	
		3	9.63	9.97	12.81	13.55	
		4	9.66	10.07	12.88	13.62	
	3x996+484 Tone	1	9.65	10.07	12.88	13.62	
		2	9.66	10.1	12.90	13.64	
		3	9.71	10.08	12.91	13.65	
		4	9.56	9.97	12.78	13.52	
		5	10.05	10.05	13.06	13.80	
		6	9.71	10.14	12.94	13.68	
		7	9.76	10.1	12.94	13.68	
		8	9.36	9.81	12.60	13.34	
6745MHz (Ch159)	2x996+484 Tone	1	9.97	10.27	13.13	13.87	
		2	9.91	10.17	13.05	13.79	
		3	9.93	10.23	13.09	13.83	

			4	10.09	10.35	13.23	13.97	
			5	10.16	10.51	13.35	14.09	
			6	10.13	10.37	13.26	14.00	
			7	9.72	9.84	12.79	13.53	
			8	9.76	9.89	12.84	13.58	
			9	9.55	9.79	12.68	13.42	
			10	9.49	9.82	12.67	13.41	
			11	9.58	9.83	12.72	13.46	
			12	9.65	9.81	12.74	13.48	
			3x996 Tone	1	9.74	10	12.88	13.62
				2	9.86	10.01	12.95	13.69
				3	10.07	10.31	13.20	13.94
4	9.96	10.25		13.12	13.86			
3x996+484 Tone	1	9.82	10.6	13.24	13.98			
	2	9.8	10.07	12.95	13.69			
	3	9.82	10.1	12.97	13.71			
	4	9.79	10.12	12.97	13.71			
	5	10.01	10.23	13.13	13.87			
	6	9.95	10.26	13.12	13.86			
	7	9.94	10.19	13.08	13.82			
	8	9.81	10.09	12.96	13.70			
6905MHz (Ch191)	2x996+484 Tone	1	9.83	10.17	13.01	13.75		
		2	9.71	9.99	12.86	13.60		
		3	9.71	10.08	12.91	13.65		
		4	9.85	10.15	13.01	13.75		
		5	9.68	9.97	12.84	13.58		
		6	9.78	9.99	12.90	13.64		
		7	9.81	10.14	12.99	13.73		
		8	9.77	10.14	12.97	13.71		
		9	9.48	9.84	12.67	13.41		
		10	9.42	9.87	12.66	13.40		
		11	9.46	9.82	12.65	13.39		
		12	9.37	9.88	12.64	13.38		
3x996 Tone	1	9.75	10.11	12.94	13.68			
	2	9.72	10.12	12.93	13.67			
	3	9.72	10.05	12.90	13.64			
	4	9.73	10.03	12.89	13.63			
3x996+484 Tone	1	9.7	10.05	12.89	13.63			
	2	9.61	10.05	12.85	13.59			
	3	9.69	10.06	12.89	13.63			
	4	9.65	10.08	12.88	13.62			

			5	10.08	10.14	13.12	13.86
			6	9.74	10.13	12.95	13.69
			7	9.63	10.07	12.87	13.61
			8	9.58	9.96	12.78	13.52

Duty Cycle

Mode	11a						
Duty Cycle	99%						
Mode	11ax-HE 20M	11ax-HE 40M	11ax-HE 80M	11ax-HE 160M			
Duty Cycle	90%	90%	90%	90%			
Mode	11ax-HE 20M RU	11ax-HE 40M RU	11ax-HE 80M RU	11ax-HE 160M RU			
Duty Cycle	95%	94%	94%	95%			
Mode	11be-EHT 20M	11be-EHT 40M	11be-EHT 80M	11be-EHT 160M	11be-EHT 320M		
Duty Cycle	89%	89%	89%	90%	90%		
Mode	11be-EHT 20M RU	11be-EHT 40M RU	11be-EHT 80M RU	11be-EHT 160M RU	11be-EHT 320M RU	11be-EHT 20M 52+26 MRU	
Duty Cycle	95%	95%	94%	95%	95%	94%	
Mode	11be-EHT 20M 106+26 MRU	11be-EHT 80M 484+242 MRU	11be-EHT 160M 996+484+242 MRU	11be-EHT 160M 996+484 MRU	11be-EHT 320M 2*996+484 MRU	11be-EHT 320M 3*996 MRU	11be-EHT 320M 3*996+484 MRU
Duty Cycle	95%	94%	90%	90%	90%	89%	90%



Conclusion: PASS

A.3. Peak Power Spectral Density (conducted)

Measurement Limit and Method:

Standard	Frequency (MHz)	e.i.r.p Limit (dBm/MHz)
FCC CRF Part 15.407(a)	5925MHz~6425MHz	-1
	6425MHz~6525MHz	-1
	6525MHz~6875MHz	-1
	6875MHz~7125MHz	-1

The output power measurement method Section F is made according to KDB 987594 and KDB 789033.

Measurement Results:

MIMO:

Mode	Channel	Test Result (dBm)			
		ant7	ant10	mimo	mimo eirp
		MCS0	MCS0	MCS0	MCS0
802.11a	5955MHz (Ch1)	-6.12	-7.27	-3.65	-2.91
	6175MHz (Ch45)	-6.39	-7.16	-3.75	-3.01
	6415MHz (Ch93)	-6.05	-7.29	-3.62	-2.88
	6435MHz (Ch97)	-5.97	-7.11	-3.49	-2.75
	6475MHz (Ch105)	-6.27	-6.97	-3.60	-2.86
	6515MHz (Ch113)	-6.29	-7.19	-3.71	-2.97
	6535MHz (Ch117)	-6.50	-7.07	-3.77	-3.03

	6695MHz (Ch149)	-6.22	-6.87	-3.52	-2.78
	6855MHz (Ch181)	-6.49	-7.05	-3.75	-3.01
	6875MHz (Ch185)	-6.63	-7.10	-3.85	-3.11
	6895MHz (ch189)	-6.77	-7.23	-3.98	-3.24
	6995MHz (Ch209)	-6.85	-6.88	-3.85	-3.11
	7115MHz (Ch233)	-7.34	-7.08	-4.20	-3.46
Mode	Channel	Test Result (dBm)			
		ant7	ant10	mimo	mimo eirp
		MCS0	MCS0	MCS0	MCS0
802.11be-20 full RU	5955MHz (Ch1)	-6.03	-7.47	-3.68	-2.94
	6175MHz (Ch45)	-6.18	-7.27	-3.68	-2.94
	6415MHz (Ch93)	-6.28	-7.64	-3.90	-3.16
	6435MHz (Ch97)	-5.97	-7.42	-3.62	-2.88
	6475MHz (Ch105)	-6.09	-7.30	-3.64	-2.90
	6515MHz (Ch113)	-6.19	-7.63	-3.84	-3.10
	6535MHz (Ch117)	-6.34	-7.42	-3.84	-3.10
	6695MHz (Ch149)	-6.03	-7.07	-3.51	-2.77
	6855MHz (Ch181)	-6.44	-7.12	-3.76	-3.02
	6875MHz (Ch185)	-6.59	-7.17	-3.86	-3.12
	6895MHz (ch189)	-6.74	-7.36	-4.03	-3.29
	6995MHz (Ch209)	-6.72	-7.11	-3.90	-3.16
	7115MHz (Ch233)	-6.92	-7.37	-4.13	-3.39
Mode	Channel	Test Result (dBm)			
		ant7	ant10	mimo	mimo eirp
		MCS0	MCS0	MCS0	MCS0
802.11be-40 full RU	5965MHz (Ch3)	-6.33	-6.65	-3.48	-2.74
	6165MHz (Ch43)	-6.74	-7.48	-4.08	-3.34
	6405MHz (Ch91)	-6.77	-7.05	-3.90	-3.16
	6445MHz (Ch99)	-6.00	-7.00	-3.46	-2.72
	6485MHz (Ch107)	-5.75	-6.68	-3.18	-2.44
	6525MHz (Ch115)	-5.89	-6.48	-3.16	-2.42
	6565MHz (Ch123)	-5.94	-6.34	-3.13	-2.39
	6685MHz (Ch147)	-5.98	-6.73	-3.33	-2.59
	6845MHz (Ch179)	-7.38	-7.27	-4.31	-3.57
	6885MHz (Ch187)	-7.03	-7.41	-4.21	-3.47
	6925MHz (ch195)	-7.25	-7.55	-4.39	-3.65
	6965MHz (Ch203)	-6.97	-6.90	-3.92	-3.18
	7085MHz (Ch227)	-6.95	-7.33	-4.13	-3.39

Mode	Channel	Tone	Test Result (dBm)				
			configure	ant7	ant10	mimo	mimo eirp
				MCS0	MCS0	MCS0	MCS0
802.11be-80 full RU	5985MHz (Ch7)	/	/	-7.67	-8.36	-4.99	-4.25
	6145MHz (Ch39)	/	/	-7.44	-8.43	-4.90	-4.16
	6385MHz (Ch87)	/	/	-7.73	-7.66	-4.68	-3.94
	6465MHz (Ch103)	/	/	-7.52	-8.39	-4.92	-4.18
	6545MHz (Ch119)	/	/	-7.63	-7.97	-4.79	-4.05
	6625MHz (Ch135)	/	/	-7.59	-8.12	-4.84	-4.10
	6705MHz (Ch151)	/	/	-7.71	-7.81	-4.75	-4.01
	6785MHz (Ch167)	/	/	-8.01	-7.99	-4.99	-4.25
	6865MHz (Ch183)	/	/	-7.92	-8.32	-5.11	-4.37
	6945MHz (Ch199)	/	/	-8.17	-8.03	-5.09	-4.35
7025MHz (Ch215)	/	/	-7.82	-7.81	-4.80	-4.06	
Mode	Channel	Tone	Test Result (dBm)				
			configure	ant7	ant10	mimo	mimo eirp
				MCS0	MCS0	MCS0	MCS0
802.11be-160 full RU	6025MHz (Ch15)	/	/	-9.92	-10.00	-6.95	-6.21
	6185MHz (Ch47)	/	/	-9.56	-10.81	-7.13	-6.39
	6345MHz (Ch79)	/	/	-10.05	-9.69	-6.86	-6.12
	6505MHz (Ch111)	/	/	-9.16	-9.70	-6.41	-5.67
	6665MHz (Ch143)	/	/	-9.62	-10.08	-6.83	-6.09
	6825MHz (Ch175)	/	/	-10.23	-10.45	-7.33	-6.59
	6985MHz (Ch207)	/	/	-10.00	-9.71	-6.84	-6.10
Mode	Channel	Tone	Test Result (dBm)				
			configure	ant7	ant10	mimo	mimo eirp
				MCS0	MCS0	MCS0	MCS0
802.11be-320 full RU	6105MHz (Ch31)	/	/	-12.12	-13.24	-9.63	-8.89
	6265MHz (Ch63)	/	/	-12.15	-12.34	-9.23	-8.49
	6425MHz (Ch95)	/	/	-12.62	-13.35	-9.96	-9.22
	6585MHz (Ch127)	/	/	-12.53	-13.34	-9.91	-9.17
	6745MHz (Ch159)	/	/	-12.46	-12.80	-9.62	-8.88
	6905MHz (Ch191)	/	/	-12.99	-12.99	-9.98	-9.24

11BE-20 single RU

Mode	Channel	Test Result (dBm)			
		ant7	ant10	mimo	mimo eirp
		MCS0	MCS0	MCS0	MCS0
RU26-I	5955MHz (Ch1)	-7.04	-7.44	-4.23	-3.49
	6175MHz (Ch45)	-7.37	-7.80	-4.57	-3.83
	6415MHz (Ch93)	-7.04	-7.85	-4.42	-3.68
	6435MHz (Ch97)	-6.89	-8.32	-4.54	-3.80
	6475MHz (Ch105)	-7.52	-8.45	-4.95	-4.21
	6515MHz (Ch113)	-7.50	-8.43	-4.93	-4.19
RU26-R	6535MHz (Ch117)	-7.76	-8.14	-4.94	-4.20
	6695MHz (Ch149)	-7.70	-7.90	-4.79	-4.05
	6855MHz (Ch181)	-8.43	-7.97	-5.18	-4.44
	6875MHz (Ch185)	-8.50	-7.85	-5.15	-4.41
	6895MHz (ch189)	-8.69	-8.10	-5.37	-4.63
	6995MHz (Ch209)	-8.53	-8.37	-5.44	-4.70
	7115MHz (Ch233)	-7.78	-7.61	-4.68	-3.94
Mode	Channel	Test Result (dBm)			
		ant7	ant10	mimo	mimo eirp
		MCS0	MCS0	MCS0	MCS0
RU52-I	5955MHz (Ch1)	-6.82	-7.49	-4.13	-3.39
	6175MHz (Ch45)	-7.09	-7.71	-4.38	-3.64
	6415MHz (Ch93)	-6.99	-7.81	-4.37	-3.63
	6435MHz (Ch97)	-6.64	-8.10	-4.30	-3.56
	6475MHz (Ch105)	-7.32	-8.11	-4.69	-3.95
	6515MHz (Ch113)	-7.17	-8.07	-4.59	-3.85
RU52-R	6535MHz (Ch117)	-7.66	-7.81	-4.72	-3.98
	6695MHz (Ch149)	-7.77	-7.75	-4.75	-4.01
	6855MHz (Ch181)	-8.52	-7.83	-5.15	-4.41
	6875MHz (Ch185)	-8.40	-7.72	-5.04	-4.30
	6895MHz (ch189)	-8.54	-7.98	-5.24	-4.50
	6995MHz (Ch209)	-8.42	-8.27	-5.33	-4.59
	7115MHz (Ch233)	-7.68	-7.48	-4.57	-3.83
Mode	Channel	Test Result (dBm)			
		ant7	ant10	mimo	mimo eirp
		MCS0	MCS0	MCS0	MCS0
RU106-I	5955MHz (Ch1)	-6.38	-6.97	-3.65	-2.91

	6175MHz (Ch45)	-6.69	-7.13	-3.89	-3.15
	6415MHz (Ch93)	-6.52	-7.23	-3.85	-3.11
	6435MHz (Ch97)	-6.32	-7.60	-3.90	-3.16
	6475MHz (Ch105)	-6.99	-7.67	-4.31	-3.57
	6515MHz (Ch113)	-6.76	-7.56	-4.13	-3.39
RU106-R	6535MHz (Ch117)	-7.19	-7.26	-4.21	-3.47
	6695MHz (Ch149)	-7.28	-7.25	-4.25	-3.51
	6855MHz (Ch181)	-7.83	-7.28	-4.54	-3.80
	6875MHz (Ch185)	-7.32	-7.02	-4.16	-3.42
	6895MHz (ch189)	-7.62	-7.33	-4.46	-3.72
	6995MHz (Ch209)	-7.60	-7.63	-4.60	-3.86
	7115MHz (Ch233)	-7.02	-6.87	-3.93	-3.19

11BE-20 MRU(small)

Mode	Channel	Test Result (dBm)			
		ant7	ant10	mimo	mimo eirp
		MCS0	MCS0	MCS0	MCS0
52 Tone,index38 + 26Tone,index1	5955MHz (Ch1)	-8.91	-9.20	-6.04	-5.30
	6175MHz (Ch45)	-9.26	-9.44	-6.34	-5.60
	6415MHz (Ch93)	-8.92	-9.47	-6.18	-5.44
	6435MHz (Ch97)	-8.60	-9.81	-6.15	-5.41
	6475MHz (Ch105)	-9.13	-9.82	-6.45	-5.71
	6515MHz (Ch113)	-9.03	-9.86	-6.41	-5.67
52 Tone,index39 + 26Tone,index7	6535MHz (Ch117)	-9.79	-9.60	-6.68	-5.94
	6695MHz (Ch149)	-9.78	-9.62	-6.69	-5.95
	6855MHz (Ch181)	-9.82	-9.54	-6.67	-5.93
	6875MHz (Ch185)	-9.53	-9.32	-6.41	-5.67
	6895MHz (ch189)	-9.85	-9.69	-6.76	-6.02
	6995MHz (Ch209)	-9.82	-10.06	-6.93	-6.19
	7115MHz (Ch233)	-9.32	-9.29	-6.29	-5.55
Mode	Channel	Test Result (dBm)			
		ant7	ant10	mimo	mimo eirp
		MCS0	MCS0	MCS0	MCS0
106 Tone,index53 + 26Tone,index4	5955MHz (Ch1)	-7.58	-8.05	-4.80	-4.06
	6175MHz (Ch45)	-7.77	-8.16	-4.95	-4.21
	6415MHz (Ch93)	-7.60	-8.17	-4.87	-4.13
	6435MHz (Ch97)	-7.36	-8.56	-4.91	-4.17
	6475MHz (Ch105)	-8.02	-8.58	-5.28	-4.54
	6515MHz (Ch113)	-7.79	-8.54	-5.14	-4.40

106 Tone,index54 + 26Tone,index4	6535MHz (Ch117)	-8.23	-8.24	-5.22	-4.48
	6695MHz (Ch149)	-8.33	-8.18	-5.24	-4.50
	6855MHz (Ch181)	-8.57	-8.14	-5.34	-4.60
	6875MHz (Ch185)	-8.21	-8.00	-5.09	-4.35
	6895MHz (ch189)	-8.49	-8.28	-5.37	-4.63
	6995MHz (Ch209)	-8.62	-8.71	-5.65	-4.91
	7115MHz (Ch233)	-7.99	-7.83	-4.90	-4.16

11BE-80 MRU(large) & punctured

Mode	Channel	Tone	Test Result (dBm)				
			configure	ant7	ant10	mimo	mimo
				MCS0	MCS0	MCS0	eirp MCS0
802.11be-80	5985MHz (Ch7)	484+242 Tone	1	-7.65	-8.33	-4.97	-4.23
			2	-7.64	-8.31	-4.95	-4.21
			3	-7.81	-8.44	-5.10	-4.36
			4	-7.72	-8.41	-5.04	-4.30
	6145MHz (Ch39)	484+242 Tone	1	-7.90	-8.92	-5.37	-4.63
			2	-7.94	-8.71	-5.30	-4.56
			3	-8.30	-8.76	-5.51	-4.77
			4	-7.94	-8.75	-5.32	-4.58
	6385MHz (Ch87)	484+242 Tone	1	-8.20	-8.62	-5.39	-4.65
			2	-8.21	-8.79	-5.48	-4.74
			3	-8.27	-8.67	-5.46	-4.72
			4	-8.28	-8.75	-5.50	-4.76
	6465MHz (Ch103)	484+242 Tone	1	-8.19	-8.79	-5.47	-4.73
			2	-8.29	-8.82	-5.54	-4.80
			3	-8.26	-8.91	-5.56	-4.82
			4	-8.28	-8.94	-5.59	-4.85
	6545MHz (Ch119)	484+242 Tone	1	-7.70	-8.57	-5.10	-4.36
			2	-7.73	-8.48	-5.08	-4.34
			3	-7.84	-8.49	-5.14	-4.40
			4	-7.72	-8.52	-5.09	-4.35
	6625MHz (Ch135)	484+242 Tone	1	-6.83	-8.44	-4.55	-3.81
			2	-6.91	-8.51	-4.63	-3.89
			3	-6.92	-8.50	-4.63	-3.89
			4	-7.24	-8.56	-4.84	-4.10
	6705MHz (Ch151)	484+242 Tone	1	-6.94	-8.52	-4.65	-3.91
			2	-6.97	-8.60	-4.70	-3.96
			3	-7.19	-8.54	-4.80	-4.06
			4	-6.95	-8.50	-4.65	-3.91
	6785MHz	484+242	1	-8.10	-8.99	-5.51	-4.77

	(Ch167)	Tone	2	-7.94	-8.68	-5.28	-4.54
			3	-7.96	-8.70	-5.30	-4.56
			4	-7.93	-8.65	-5.26	-4.52
	6865MHz (Ch183)	484+242 Tone	1	-7.65	-8.53	-5.06	-4.32
			2	-7.73	-8.55	-5.11	-4.37
			3	-7.75	-8.52	-5.11	-4.37
			4	-7.82	-8.44	-5.11	-4.37
	6945MHz (Ch199)	484+242 Tone	1	-7.47	-8.49	-4.94	-4.20
			2	-7.79	-8.47	-5.11	-4.37
			3	-7.61	-8.46	-5.00	-4.26
			4	-7.65	-8.51	-5.05	-4.31
	7025MHz (Ch215)	484+242 Tone	1	-7.64	-8.89	-5.21	-4.47
			2	-7.61	-8.91	-5.20	-4.46
			3	-7.63	-8.91	-5.21	-4.47
			4	-7.72	-8.94	-5.28	-4.54

11BE-160 MRU(large) & punctured

Mode	Channel	Tone	Test Result (dBm)				
			configure	ant7	ant10	mimo	mimo eirp
				MCS0	MCS0	MCS0	MCS0
802.11be-160	6025MHz (Ch15)	996+484+242 Tone	1	-9.49	-9.18	-6.32	-5.58
			2	-9.49	-9.23	-6.35	-5.61
			3	-9.43	-9.21	-6.31	-5.57
			4	-9.26	-9.04	-6.14	-5.40
			5	-9.88	-9.04	-6.43	-5.69
			6	-9.43	-9.14	-6.27	-5.53
			7	-9.42	-9.28	-6.34	-5.60
			8	-9.49	-9.30	-6.38	-5.64
	6185MHz (Ch47)	996+484+242 Tone	1	-9.37	-9.34	-6.34	-5.60
			2	-9.38	-9.34	-6.35	-5.61
			3	-9.24	-9.31	-6.26	-5.52
			4	-9.15	-9.26	-6.19	-5.45
			5	-9.40	-9.21	-6.29	-5.55
			6	-9.29	-9.34	-6.30	-5.56
			7	-9.30	-9.44	-6.36	-5.62
			8	-9.42	-9.48	-6.44	-5.70
	6345MHz (Ch79)	996+484+242 Tone	1	-9.73	-9.38	-6.54	-5.80
			2	-9.74	-9.46	-6.59	-5.85
			3	-9.71	-9.39	-6.54	-5.80
			4	-9.74	-9.39	-6.55	-5.81
			5	-9.53	-9.22	-6.36	-5.62

			6	-9.73	-9.34	-6.52	-5.78
			7	-9.76	-9.41	-6.57	-5.83
			8	-9.80	-9.53	-6.65	-5.91
	6505MHz (Ch111)	996+484+242 Tone	1	-9.31	-9.47	-6.38	-5.64
			2	-9.29	-9.39	-6.33	-5.59
			3	-9.21	-9.39	-6.29	-5.55
			4	-9.15	-9.23	-6.18	-5.44
			5	-9.10	-9.41	-6.24	-5.50
			6	-9.27	-9.44	-6.34	-5.60
			7	-9.31	-9.53	-6.41	-5.67
			8	-9.37	-9.57	-6.46	-5.72
	6665MHz (Ch143)	996+484+242 Tone	1	-7.86	-9.19	-5.46	-4.72
			2	-7.89	-9.15	-5.46	-4.72
			3	-7.74	-9.13	-5.37	-4.63
			4	-8.55	-9.01	-5.76	-5.02
			5	-7.63	-9.13	-5.31	-4.57
			6	-7.74	-9.09	-5.35	-4.61
			7	-7.81	-9.25	-5.46	-4.72
			8	-7.93	-9.19	-5.50	-4.76
	6825MHz (Ch175)	996+484+242 Tone	1	-8.68	-9.62	-6.11	-5.37
			2	-8.70	-9.62	-6.13	-5.39
			3	-8.61	-9.55	-6.04	-5.30
			4	-8.58	-9.50	-6.01	-5.27
			5	-8.46	-9.49	-5.93	-5.19
			6	-8.60	-9.54	-6.03	-5.29
			7	-8.67	-9.55	-6.08	-5.34
			8	-8.77	-9.64	-6.17	-5.43
	6985MHz (Ch207)	996+484+242 Tone	1	-8.73	-9.92	-6.27	-5.53
			2	-8.79	-9.87	-6.29	-5.55
			3	-8.74	-9.88	-6.26	-5.52
			4	-8.65	-9.78	-6.17	-5.43
			5	-8.89	-9.62	-6.23	-5.49
			6	-8.75	-9.79	-6.23	-5.49
			7	-8.82	-9.95	-6.34	-5.60
			8	-8.84	-9.90	-6.33	-5.59
Mode	Channel	Tone	Test Result (dBm)				
			configure	ant7 MCS0	ant10 MCS0	mimo MCS0	mimo eirp MCS0
802.11be-160	6025MHz (Ch15)	996+484 Tone	1	-9.16	-8.13	-5.60	-4.86
			2	-8.68	-8.23	-5.44	-4.70

		3	-9.38	-8.16	-5.72	-4.98
		4	-9.18	-8.56	-5.85	-5.11
6185MHz (Ch47)	996+484 Tone	1	-8.55	-8.54	-5.53	-4.79
		2	-8.30	-8.61	-5.44	-4.70
		3	-8.56	-8.55	-5.54	-4.80
		4	-8.64	-8.85	-5.73	-4.99
6345MHz (Ch79)	996+484 Tone	1	-8.65	-8.67	-5.65	-4.91
		2	-8.65	-8.74	-5.68	-4.94
		3	-8.39	-8.74	-5.55	-4.81
		4	-8.67	-9.03	-5.84	-5.10
6505MHz (Ch111)	996+484 Tone	1	-8.24	-8.62	-5.42	-4.68
		2	-8.02	-8.56	-5.27	-4.53
		3	-8.22	-8.81	-5.49	-4.75
		4	-8.30	-8.92	-5.59	-4.85
6665MHz (Ch143)	996+484 Tone	1	-7.13	-8.34	-4.68	-3.94
		2	-7.74	-8.26	-4.98	-4.24
		3	-7.03	-8.43	-4.66	-3.92
		4	-7.34	-8.48	-4.86	-4.12
6825MHz (Ch175)	996+484 Tone	1	-7.71	-8.85	-5.23	-4.49
		2	-7.75	-8.89	-5.27	-4.53
		3	-7.76	-8.85	-5.26	-4.52
		4	-8.08	-9.13	-5.56	-4.82
6985MHz (Ch207)	996+484 Tone	1	-8.26	-8.98	-5.59	-4.85
		2	-8.14	-9.05	-5.56	-4.82
		3	-8.49	-8.94	-5.70	-4.96
		4	-8.59	-9.27	-5.91	-5.17

11BE-320 MRU(large) & punctured

Mode	Channel	Tone	Test Result (dBm)				
			configure	ant7	ant10	mimo	mimo eirp
				MCS0	MCS0	MCS0	MCS0
802.11be -320	6105MHz (Ch31)	2x996+484 Tone	1	-10.43	-11.67	-8.00	-7.26
			2	-10.50	-11.69	-8.04	-7.30
			3	-10.23	-11.50	-7.81	-7.07
			4	-10.38	-11.44	-7.87	-7.13
			5	-10.09	-11.40	-7.69	-6.95
			6	-10.22	-11.63	-7.86	-7.12
			7	-10.31	-11.13	-7.69	-6.95
			8	-10.46	-11.17	-7.79	-7.05
			9	-10.73	-11.68	-8.17	-7.43
			10	-10.87	-11.82	-8.31	-7.57

			11	-10.95	-12.01	-8.44	-7.70
			12	-11.05	-12.10	-8.53	-7.79
		3x996 Tone	1	-11.26	-12.20	-8.69	-7.95
			2	-11.09	-11.96	-8.49	-7.75
			3	-10.72	-11.87	-8.25	-7.51
			4	-11.10	-12.48	-8.73	-7.99
		3x996+484 Tone	1	-11.98	-13.16	-9.52	-8.78
			2	-11.92	-13.15	-9.48	-8.74
			3	-11.82	-13.17	-9.43	-8.69
			4	-11.85	-13.14	-9.44	-8.70
			5	-11.66	-13.09	-9.31	-8.57
			6	-11.83	-13.15	-9.43	-8.69
	7		-11.91	-13.26	-9.52	-8.78	
	8		-11.92	-13.30	-9.55	-8.81	
	6265MHz (Ch63)	2x996+484 Tone	1	-10.31	-10.54	-7.41	-6.67
			2	-10.25	-10.47	-7.35	-6.61
			3	-10.11	-10.32	-7.20	-6.46
			4	-10.00	-10.35	-7.16	-6.42
			5	-9.98	-10.8	-7.36	-6.62
			6	-10.02	-10.52	-7.25	-6.51
			7	-9.97	-10.00	-6.97	-6.23
			8	-10.07	-10.12	-7.08	-6.34
			9	-10.74	-10.61	-7.66	-6.92
			10	-10.95	-10.71	-7.82	-7.08
			11	-11.02	-10.93	-7.96	-7.22
			12	-11.17	-11.08	-8.11	-7.37
		3x996 Tone	1	-10.97	-11.10	-8.02	-7.28
			2	-10.77	-10.76	-7.75	-7.01
3			-10.49	-10.8	-7.63	-6.89	
4			-10.95	-11.26	-8.09	-7.35	
3x996+484 Tone		1	-12.41	-12.08	-9.23	-8.49	
		2	-12.40	-12.15	-9.26	-8.52	
		3	-12.18	-12.07	-9.11	-8.37	
		4	-12.31	-12.09	-9.19	-8.45	
		5	-12.14	-11.93	-9.02	-8.28	
		6	-12.19	-12.09	-9.13	-8.39	
		7	-12.36	-12.18	-9.26	-8.52	
		8	-12.36	-12.20	-9.27	-8.53	
6425MHz (Ch95)	2x996+484 Tone	1	-10.35	-10.98	-7.64	-6.90	
		2	-10.42	-11.00	-7.69	-6.95	
		3	-10.28	-10.84	-7.54	-6.80	

			4	-10.49	-10.79	-7.63	-6.89	
			5	-10.13	-10.72	-7.40	-6.66	
			6	-10.15	-11.01	-7.55	-6.81	
			7	-10.08	-10.38	-7.22	-6.48	
			8	-10.43	-10.48	-7.44	-6.70	
			9	-10.25	-11.06	-7.63	-6.89	
			10	-10.63	-11.07	-7.83	-7.09	
			11	-10.69	-11.39	-8.02	-7.28	
			12	-10.81	-11.43	-8.10	-7.36	
			3x996 Tone	1	-11.07	-11.43	-8.24	-7.50
				2	-11.15	-11.20	-8.16	-7.42
				3	-10.52	-11.22	-7.85	-7.11
		4		-11.02	-11.70	-8.34	-7.60	
		3x996+484 Tone	1	-11.92	-12.48	-9.18	-8.44	
			2	-11.86	-12.55	-9.18	-8.44	
			3	-11.71	-12.44	-9.05	-8.31	
			4	-12.00	-12.37	-9.17	-8.43	
			5	-11.68	-12.32	-8.98	-8.24	
			6	-11.86	-12.46	-9.14	-8.40	
			7	-11.89	-12.55	-9.20	-8.46	
			8	-11.93	-12.61	-9.25	-8.51	
		6585MHz (Ch127)	2x996+484 Tone	1	-10.23	-10.75	-7.47	-6.73
				2	-10.20	-10.87	-7.51	-6.77
				3	-10.05	-10.59	-7.30	-6.56
				4	-9.99	-10.50	-7.23	-6.49
				5	-9.87	-10.81	-7.30	-6.56
				6	-9.98	-10.76	-7.34	-6.60
				7	-10.10	-10.34	-7.21	-6.47
				8	-10.10	-10.18	-7.13	-6.39
				9	-10.91	-11.37	-8.12	-7.38
				10	-11.08	-11.28	-8.17	-7.43
				11	-11.14	-11.50	-8.31	-7.57
				12	-11.20	-11.55	-8.36	-7.62
			3x996 Tone	1	-11.00	-11.26	-8.12	-7.38
				2	-10.78	-10.99	-7.87	-7.13
				3	-10.63	-11.29	-7.94	-7.20
				4	-10.97	-11.53	-8.23	-7.49
			3x996+484 Tone	1	-12.34	-12.77	-9.54	-8.80
				2	-12.31	-12.78	-9.53	-8.79
				3	-12.18	-12.74	-9.44	-8.70
4	-12.34			-12.65	-9.48	-8.74		

			5	-12.24	-12.73	-9.47	-8.73		
			6	-12.25	-12.84	-9.52	-8.78		
			7	-12.31	-12.77	-9.52	-8.78		
			8	-12.33	-12.96	-9.62	-8.88		
			6745MHz (Ch159)	2x996+484 Tone	1	-10.62	-10.94	-7.77	-7.03
					2	-10.63	-11.01	-7.81	-7.07
					3	-10.57	-10.84	-7.69	-6.95
					4	-10.19	-10.65	-7.40	-6.66
					5	-10.27	-10.67	-7.46	-6.72
					6	-10.42	-10.90	-7.64	-6.90
					7	-10.59	-10.82	-7.69	-6.95
					8	-10.38	-10.74	-7.55	-6.81
9	-10.88	-11.30			-8.07	-7.33			
10	-10.92	-11.15			-8.02	-7.28			
11	-10.98	-11.33			-8.14	-7.40			
12	-11.13	-11.44			-8.27	-7.53			
	3x996 Tone	1	-11.36	-11.76	-8.55	-7.81			
		2	-10.97	-11.31	-8.13	-7.39			
		3	-10.99	-11.32	-8.14	-7.40			
		4	-11.40	-11.77	-8.57	-7.83			
6745MHz (Ch159)	3x996+484 Tone	1	-12.19	-12.41	-9.29	-8.55			
		2	-12.09	-12.43	-9.25	-8.51			
		3	-11.91	-12.28	-9.08	-8.34			
		4	-11.84	-12.15	-8.98	-8.24			
		5	-11.98	-12.29	-9.12	-8.38			
		6	-11.89	-12.37	-9.11	-8.37			
		7	-12.08	-12.33	-9.19	-8.45			
		8	-12.10	-12.52	-9.29	-8.55			
6905MHz (Ch191)	2x996+484 Tone	1	-10.89	-10.72	-7.79	-7.05			
		2	-10.92	-10.73	-7.81	-7.07			
		3	-10.74	-10.54	-7.63	-6.89			
		4	-10.42	-10.42	-7.41	-6.67			
		5	-10.74	-10.4	-7.56	-6.82			
		6	-10.59	-10.55	-7.56	-6.82			
		7	-10.37	-10.37	-7.36	-6.62			
		8	-10.25	-10.33	-7.28	-6.54			
		9	-11.23	-10.98	-8.09	-7.35			
		10	-11.37	-11.20	-8.27	-7.53			
		11	-11.50	-11.31	-8.39	-7.65			
		12	-11.65	-11.41	-8.52	-7.78			
		3x996	1	-11.26	-11.33	-8.28	-7.54		

	Tone	2	-11.06	-10.91	-7.97	-7.23
		3	-11.30	-10.98	-8.13	-7.39
		4	-11.64	-11.47	-8.54	-7.80
	3x996+484 Tone	1	-12.76	-12.59	-9.66	-8.92
		2	-12.72	-12.59	-9.64	-8.90
		3	-12.62	-12.56	-9.58	-8.84
		4	-12.50	-12.64	-9.56	-8.82
		5	-12.55	-12.37	-9.45	-8.71
		6	-12.67	-12.52	-9.58	-8.84
		7	-12.82	-12.58	-9.69	-8.95
		8	-12.72	-12.72	-9.71	-8.97

Conclusion: PASS

A.4. Emission Bandwidth(conducted)

Measurement Limit and Method:

The limit is 320 MHz for all channels except the 320 MHz.

The measurement is made according to KDB 987594 and KDB 789033

Measurement Result:

TestMode	Antenna	Channel	26db EBW [MHz]	FL[MHz]	FH[MHz]
11a	Ant2	5955	23.40	5943.20	5966.60
	Ant2	6175	23.32	6163.24	6186.56
	Ant2	6415	23.44	6403.24	6426.68
	Ant2	6435	23.56	6423.04	6446.60
	Ant2	6475	23.60	6463.28	6486.88
	Ant2	6515	23.40	6503.24	6526.64
	Ant2	6535	23.48	6523.24	6546.72
	Ant2	6695	23.64	6683.24	6706.88
	Ant2	6855	23.56	6843.16	6866.72
	Ant2	6875	23.48	6863.24	6886.72
	Ant2	6895	23.68	6883.20	6906.88
	Ant2	6995	23.72	6983.20	7006.92
Ant2	7115	39.48	7095.08	7134.56	
TestMode	Antenna	Channel	26db EBW [MHz]	FL[MHz]	FH[MHz]
11BE20MIMO full RU	Ant1	5955	23.52	5943.40	5966.92
	Ant2	5955	23.44	5943.24	5966.68
	Ant1	6175	23.20	6163.60	6186.80
	Ant2	6175	23.32	6163.32	6186.64

	Ant1	6415	23.56	6403.32	6426.88
	Ant2	6415	23.60	6403.36	6426.96
	Ant1	6435	23.52	6423.48	6447.00
	Ant2	6435	23.72	6423.24	6446.96
	Ant1	6475	22.88	6463.56	6486.44
	Ant2	6475	23.36	6463.36	6486.72
	Ant1	6515	23.24	6503.16	6526.40
	Ant2	6515	23.88	6503.12	6527.00
	Ant1	6535	23.08	6523.56	6546.64
	Ant2	6535	23.48	6523.44	6546.92
	Ant1	6695	22.76	6683.64	6706.40
	Ant2	6695	23.68	6683.24	6706.92
	Ant1	6855	23.12	6843.52	6866.64
	Ant2	6855	23.48	6843.40	6866.88
	Ant1	6875	22.60	6863.68	6886.28
	Ant2	6875	24.04	6862.92	6886.96
	Ant1	6895	23.08	6883.68	6906.76
	Ant2	6895	23.60	6883.20	6906.80
	Ant1	6995	23.36	6983.40	7006.76
	Ant2	6995	23.96	6983.00	7006.96
11BE40MIMO full RU	Ant1	7115	22.88	7103.64	7126.52
	Ant2	7115	24.92	7102.60	7127.52
	Ant1	5965	45.60	5942.28	5987.88
	Ant2	5965	45.36	5942.20	5987.56
	Ant1	6165	43.76	6143.48	6187.24
	Ant2	6165	44.80	6142.36	6187.16
	Ant1	6405	44.72	6383.32	6428.04
	Ant2	6405	44.64	6382.28	6426.92
	Ant1	6445	44.96	6422.60	6467.56
	Ant2	6445	44.32	6422.76	6467.08
	Ant1	6485	43.76	6463.80	6507.56
	Ant2	6485	44.56	6462.68	6507.24
	Ant1	6525	44.08	6503.08	6547.16
	Ant2	6525	44.48	6502.92	6547.40
	Ant1	6565	44.16	6543.00	6587.16
	Ant2	6565	43.92	6542.68	6586.60
	Ant1	6685	44.32	6663.00	6707.32
	Ant2	6685	45.52	6662.60	6708.12
	Ant1	6845	44.32	6822.60	6866.92
	Ant2	6845	44.56	6822.76	6867.32
Ant1	6885	45.28	6862.28	6907.56	
Ant2	6885	44.48	6862.92	6907.40	
Ant1	6925	44.64	6902.52	6947.16	

	Ant2	6925	44.72	6902.44	6947.16
	Ant1	6965	46.24	6941.48	6987.72
	Ant2	6965	44.96	6942.60	6987.56
	Ant1	7085	45.20	7062.44	7107.64
	Ant2	7085	44.40	7063.08	7107.48
11BE80MIMO full RU	Ant1	5985	88.32	5940.68	6029.00
	Ant2	5985	89.28	5940.36	6029.64
	Ant1	6145	87.36	6101.00	6188.36
	Ant2	6145	88.16	6100.36	6188.52
	Ant1	6385	90.08	6339.72	6429.80
	Ant2	6385	88.80	6340.36	6429.16
	Ant1	6465	89.44	6420.84	6510.28
	Ant2	6465	88.48	6420.84	6509.32
	Ant1	6545	87.84	6501.32	6589.16
	Ant2	6545	89.44	6500.36	6589.80
	Ant1	6625	89.60	6580.04	6669.64
	Ant2	6625	88.48	6581.00	6669.48
	Ant1	6705	88.64	6661.00	6749.64
	Ant2	6705	89.28	6660.84	6750.12
	Ant1	6785	89.12	6740.04	6829.16
	Ant2	6785	88.96	6740.36	6829.32
	Ant1	6865	89.76	6820.04	6909.80
	Ant2	6865	89.92	6819.88	6909.80
	Ant1	6945	88.96	6900.84	6989.80
	Ant2	6945	89.12	6899.72	6988.84
Ant1	7025	89.12	6980.04	7069.16	
Ant2	7025	91.36	6979.40	7070.76	
11BE160MIMO full RU	Ant1	6025	176.00	5938.28	6114.28
	Ant2	6025	173.44	5938.60	6112.04
	Ant1	6185	173.44	6098.28	6271.72
	Ant2	6185	174.72	6097.32	6272.04
	Ant1	6345	174.72	6258.28	6433.00
	Ant2	6345	176.96	6255.08	6432.04
	Ant1	6505	172.80	6418.92	6591.72
	Ant2	6505	172.48	6417.96	6590.44
	Ant1	6665	173.76	6578.60	6752.36
	Ant2	6665	172.80	6577.96	6750.76
	Ant1	6825	176.32	6737.00	6913.32
	Ant2	6825	175.04	6737.00	6912.04
	Ant1	6985	174.72	6897.64	7072.36
	Ant2	6985	173.12	6898.92	7072.04
11BE320MIMO full RU	Ant1	6105	337.92	5936.04	6273.96
	Ant2	6105	340.48	5933.48	6273.96

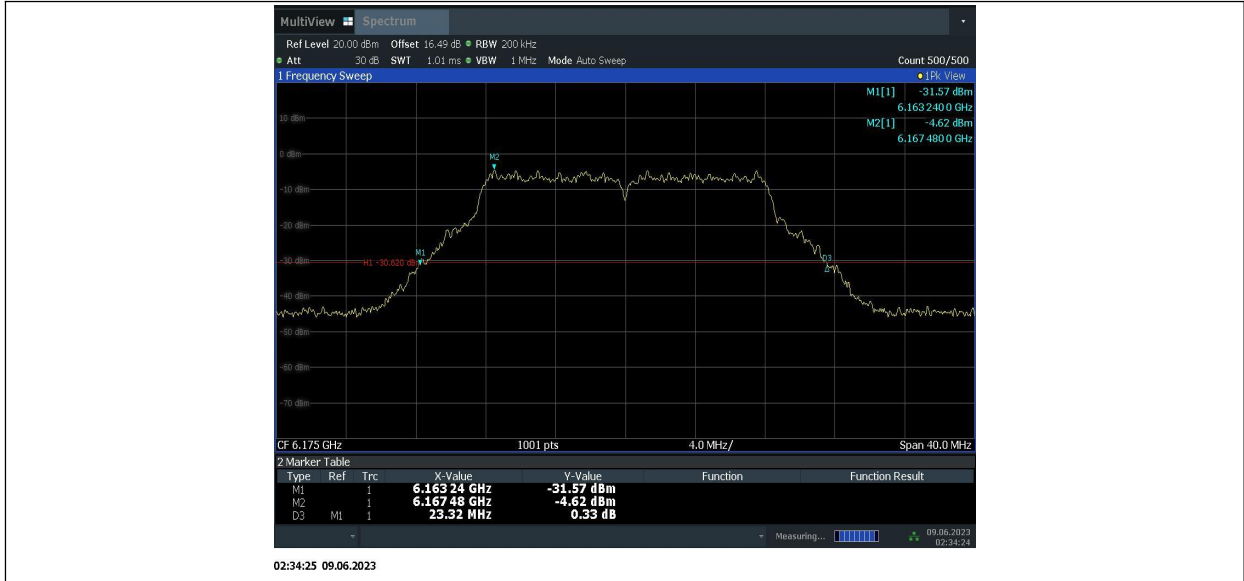
	Ant1	6265	338.56	6095.40	6433.96
	Ant2	6265	337.92	6095.40	6433.32
	Ant1	6425	337.28	6256.68	6593.96
	Ant2	6425	336.00	6256.68	6592.68
	Ant1	6585	339.20	6416.04	6755.24
	Ant2	6585	338.56	6414.76	6753.32
	Ant1	6745	339.20	6574.76	6913.96
	Ant2	6745	337.28	6576.04	6913.32
	Ant1	6905	343.04	6732.84	7075.88
	Ant2	6905	343.04	6732.20	7075.24

Note: Ant1 of the result table and result graph corresponds to ant7 of the EUT, ant2 of the result table and result graph corresponds to ant10 of the EUT.

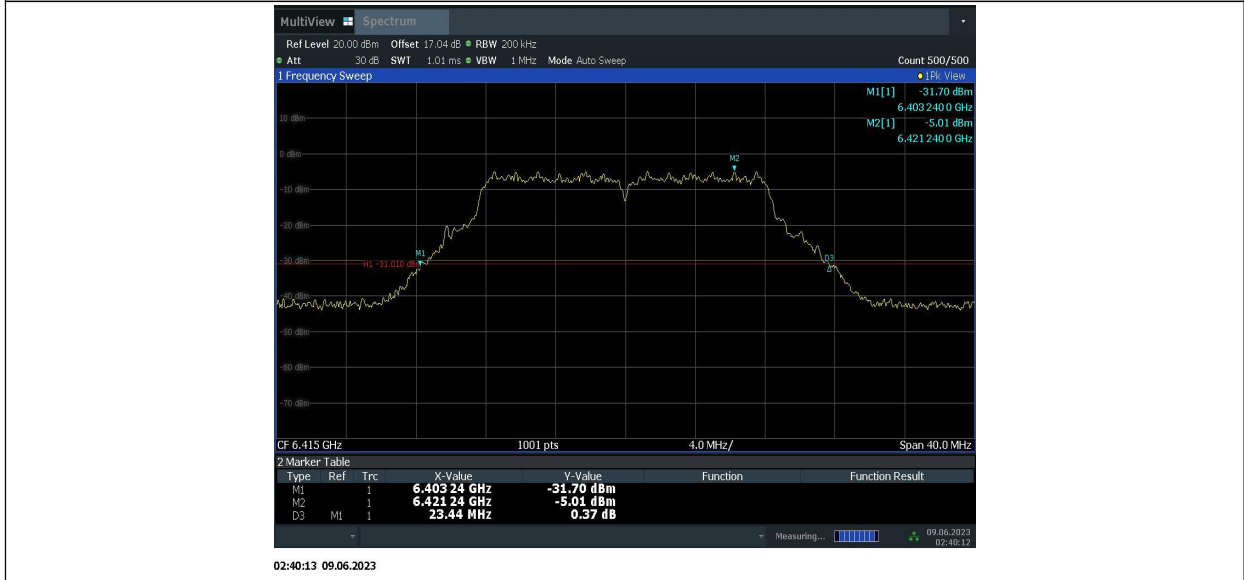
Conclusion: PASS

Test graphs as below:

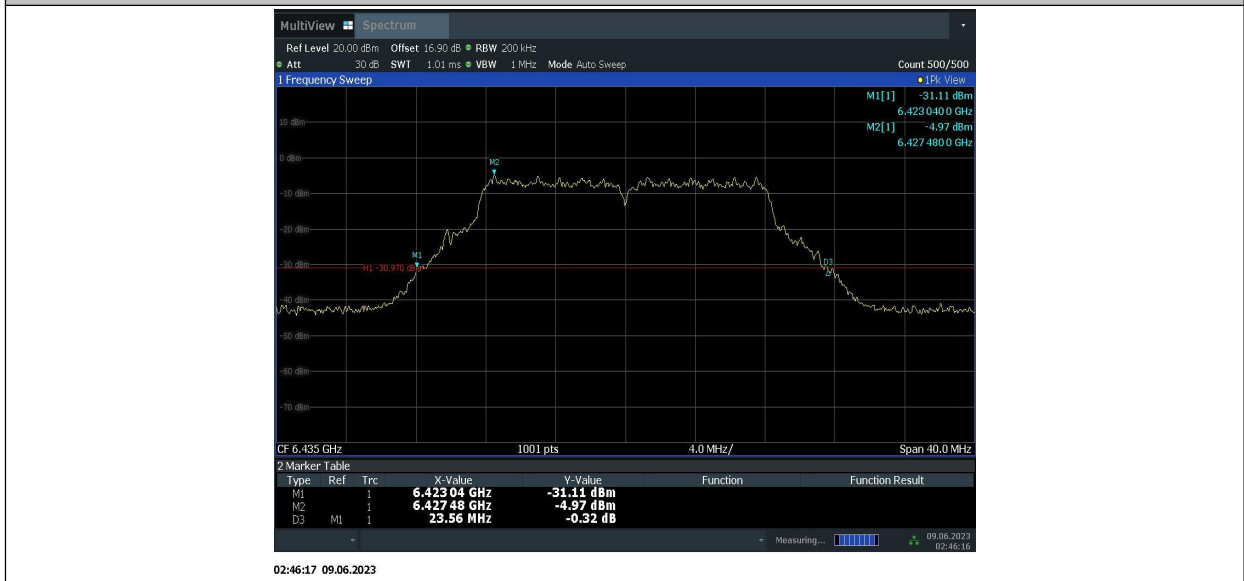




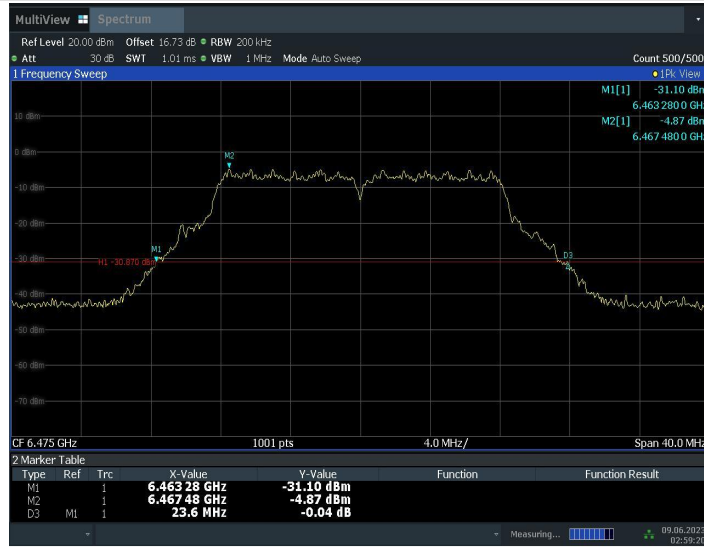
11A_Ant2_6415



11A_Ant2_6435



11A_Ant2_6475



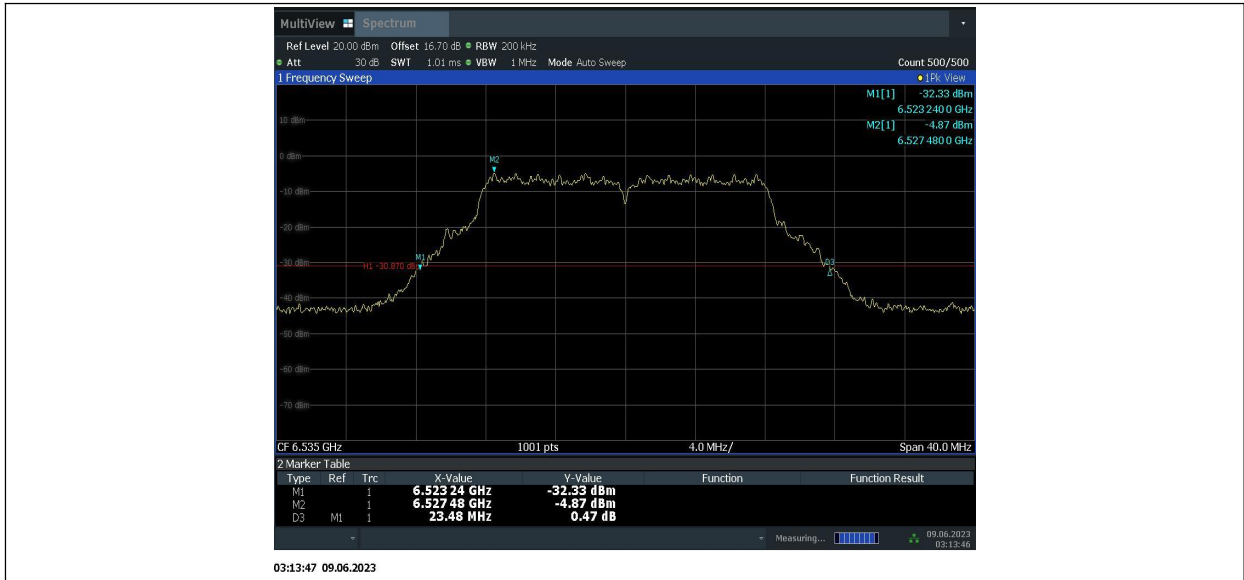
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11A_Ant2_6515

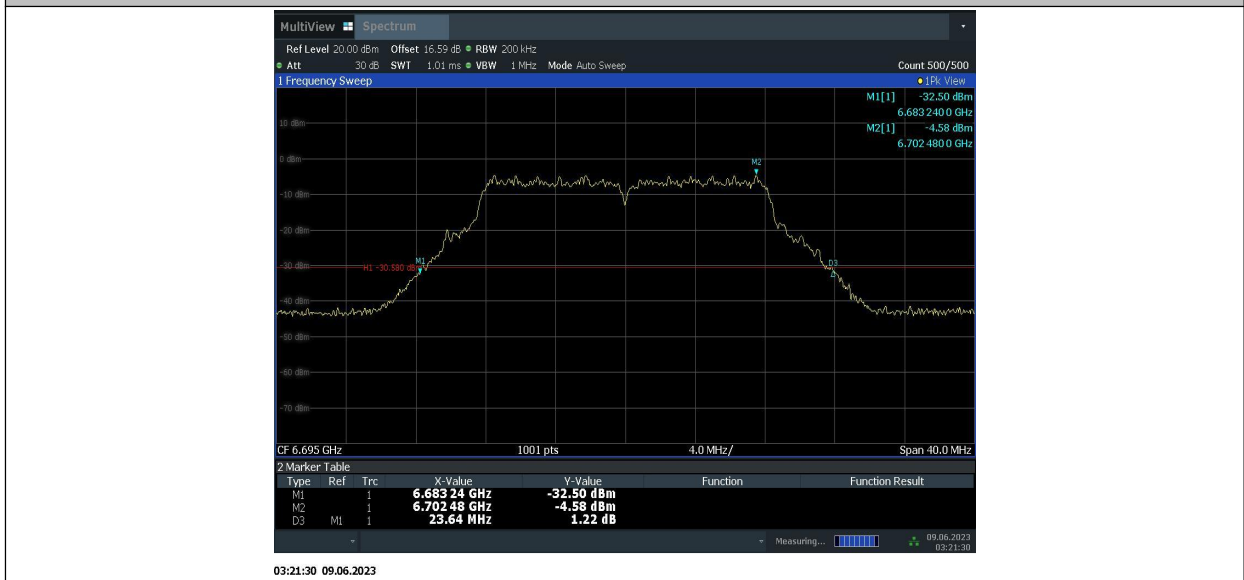


03:07:40 09.06.2023

11A_Ant2_6535



11A_Ant2_6695



11A_Ant2_6855

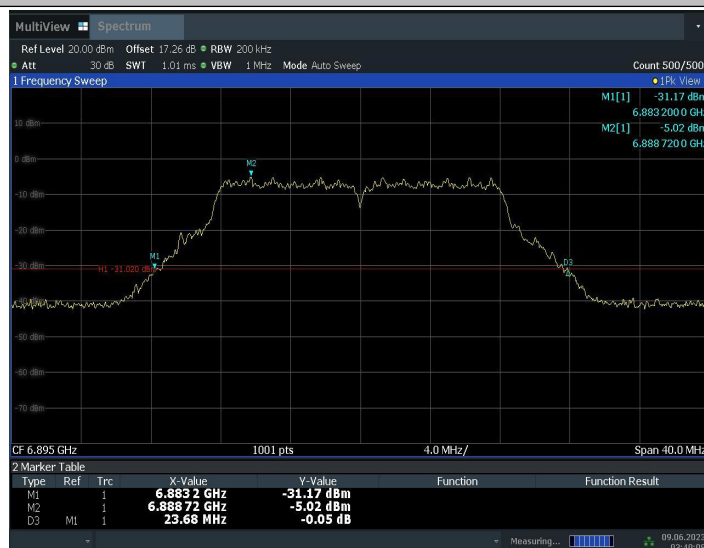


11A_Ant2_6875



03:34:04 09.06.2023

11A_Ant2_6895



03:40:08 09.06.2023

11A_Ant2_6995



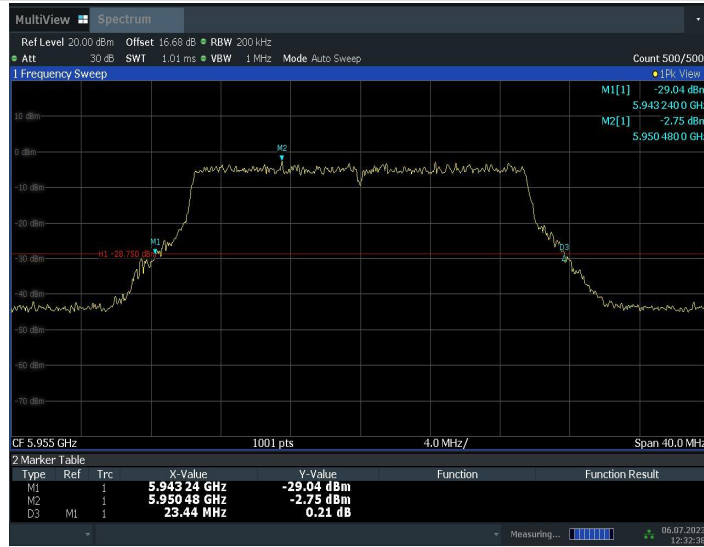
11A_Ant2_7115



11BE20MIMO_Ant1_5955



11BE20MIMO_Ant2_5955



12:32:39 06.07.2023

11BE20MIMO_Ant1_6175



12:36:16 06.07.2023

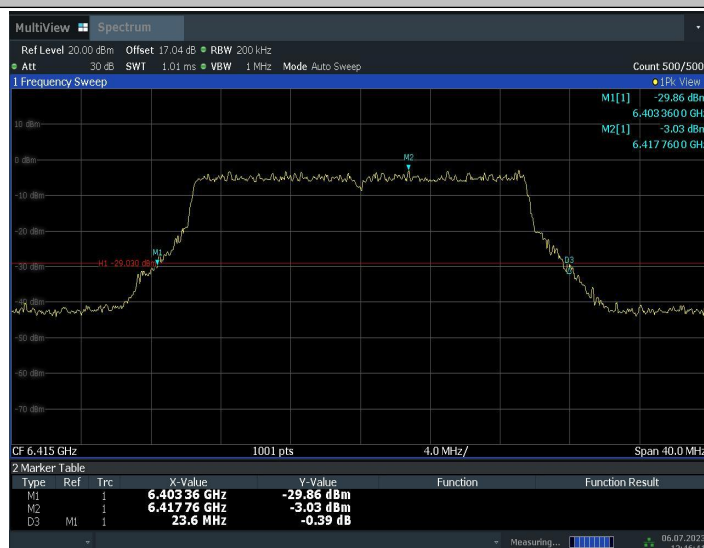
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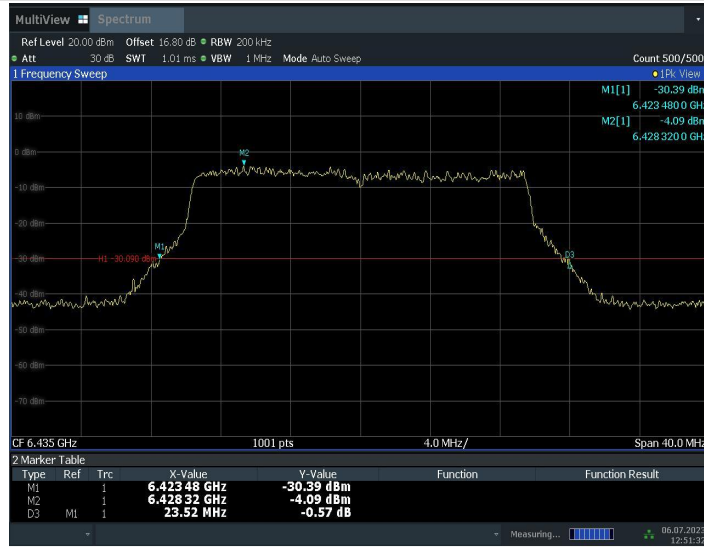
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11BE20MIMO_Ant2_6415

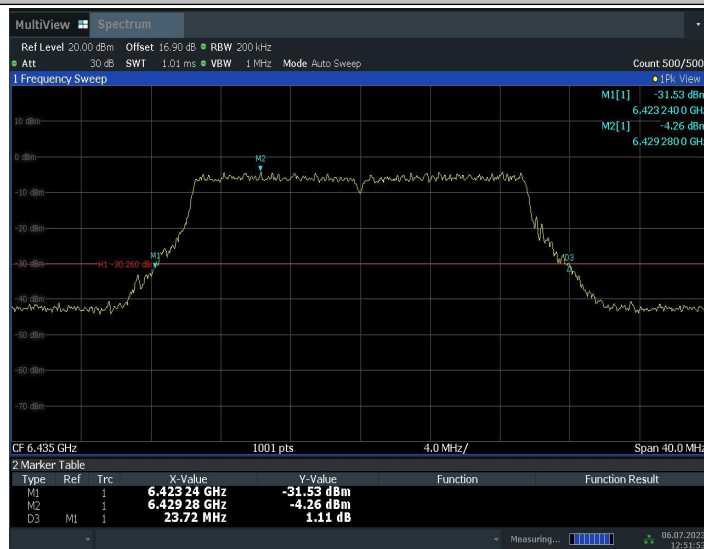


11BE20MIMO_Ant1_6435



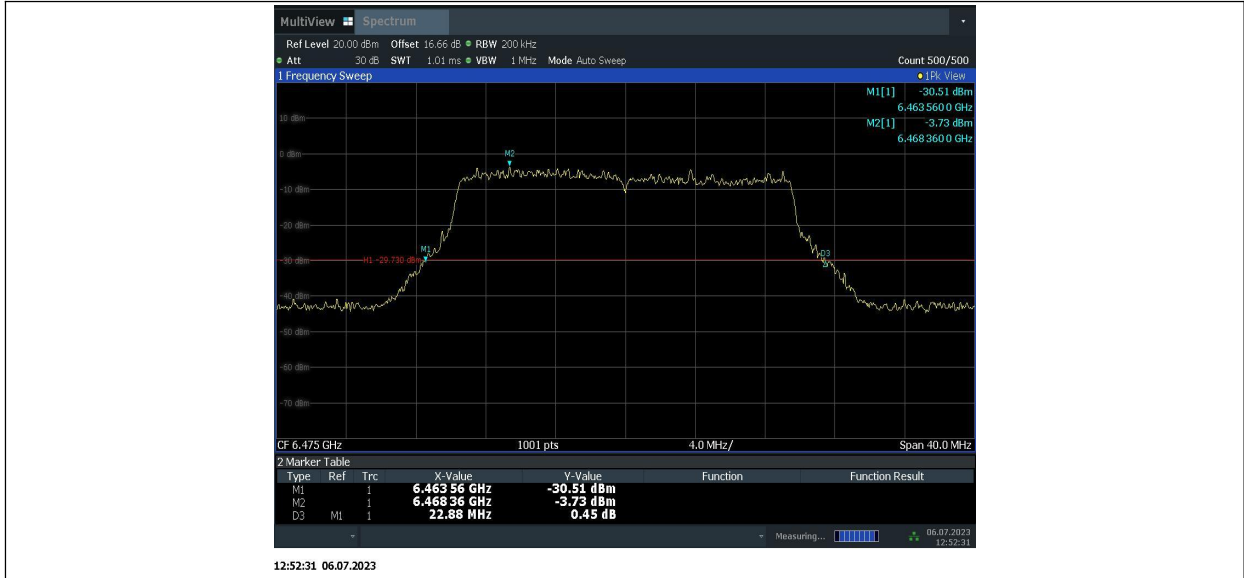
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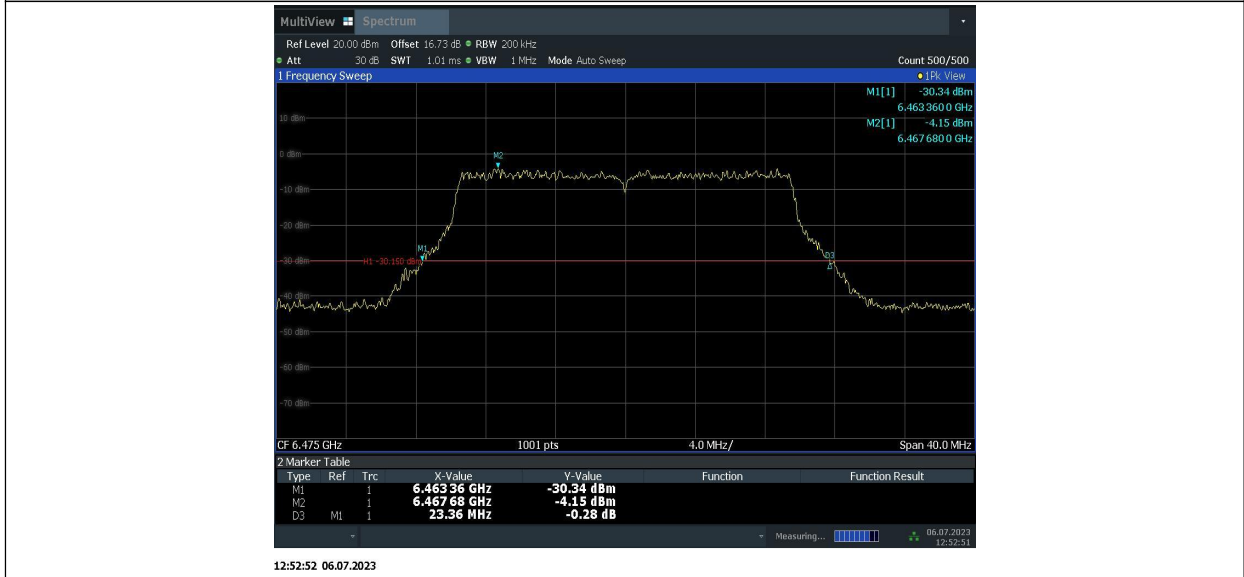


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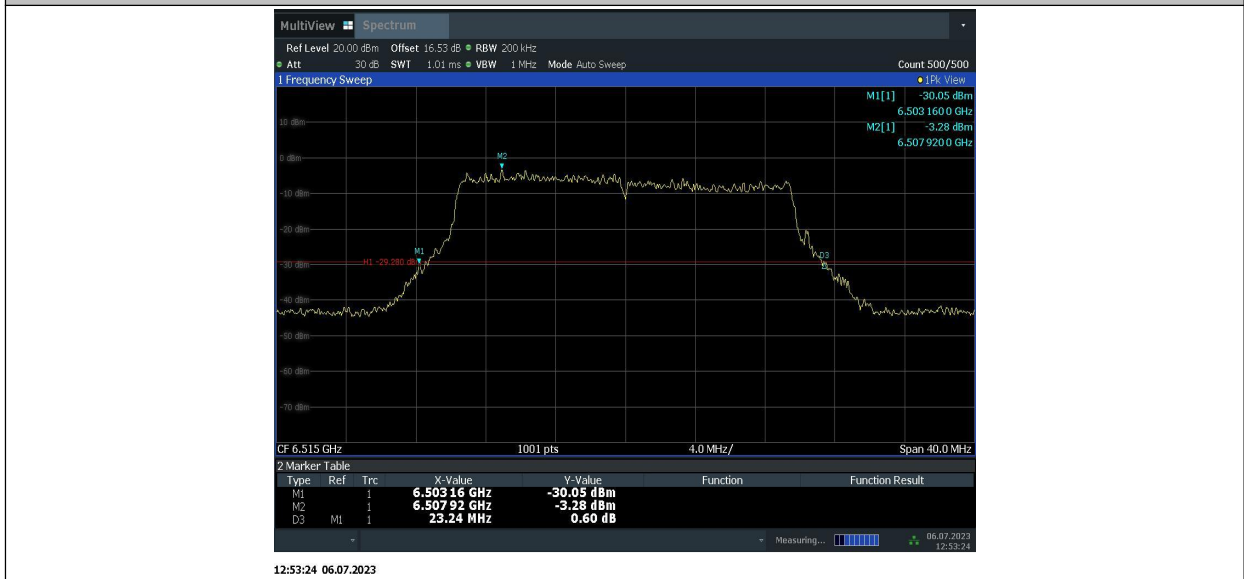
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11BE20MIMO_Ant2_6475



11BE20MIMO_Ant1_6515

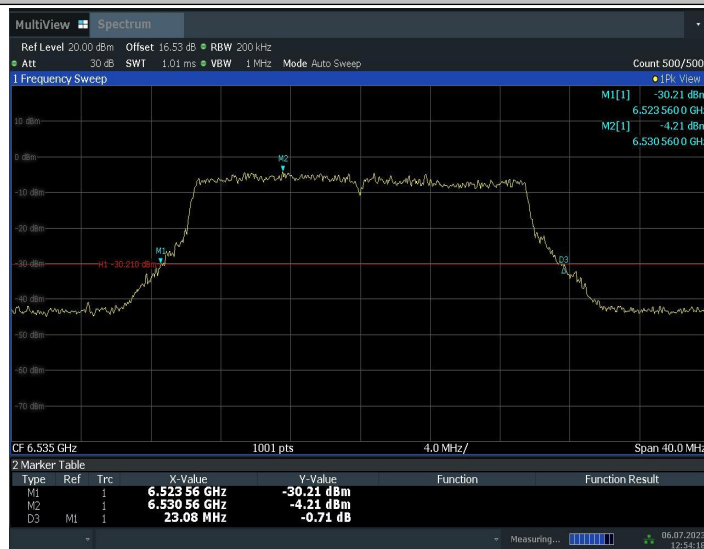


11BE20MIMO_Ant2_6515



12:53:45 06.07.2023

11BE20MIMO_Ant1_6535



12:54:19 06.07.2023

11BE20MIMO_Ant2_6535