TEST REPORT

CERTIFICATE OF CONFORMITY

Standard: **47 CFR FCC Part 15, Subpart E (Section 15.407)**
Report No.: RFBCMA-WTW-P25030859-1
FCC ID: RAXWE8214443
Product: Wi-Fi Extender
Brand: T-Mobile
Model No.: T-MOBILE V2 Wi-Fi MESH ACCESS POINT
Received Date: 2025/3/25
Test Date: 2025/5/13 ~ 2025/6/20
Issued Date: 2025/7/9

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FCC Registration / Designation Number: 723255 / TW2022

Approved by: Wen Yu , **Date:** 2025/7/9
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Prepared by : Phoenix Huang / Specialist

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Table of Contents

Release Control Record **4**

1 Certificate **5**

2 Summary of Test Results **6**

2.1 Measurement Uncertainty 6
2.2 Supplementary Information 6

3 General Information **7**

3.1 General Description of EUT 7
3.2 Antenna Description of EUT 9
3.3 Channel List 11
3.4 Test Mode Applicability and Tested Channel Detail 13
3.5 Duty Cycle of Test Signal 15
3.6 Test Program Used and Operation Descriptions 19
3.7 Connection Diagram of EUT and Peripheral Devices 19
3.8 Configuration of Peripheral Devices and Cable Connections 19

4 Test Instruments **20**

4.1 26 dB Bandwidth 20
4.2 RF Output Power 20
4.3 Power Spectral Density 20
4.4 6 dB Bandwidth 20
4.5 Occupied Bandwidth 20
4.6 AC Power Conducted Emissions 21
4.7 Unwanted Emissions below 1 GHz 21
4.8 Unwanted Emissions above 1 GHz 22

5 Limits of Test Items **23**

5.1 26 dB Bandwidth 23
5.2 RF Output Power 23
5.3 Power Spectral Density 23
5.4 6 dB Bandwidth 23
5.5 Occupied Bandwidth 23
5.6 AC Power Conducted Emissions 24
5.7 Unwanted Emissions below 1 GHz 24
5.8 Unwanted Emissions above 1 GHz 25

6 Test Arrangements **26**

6.1 26 dB Bandwidth 26
6.1.1 Test Setup 26
6.1.2 Test Procedure 26
6.2 RF Output Power 26
6.2.1 Test Setup 26
6.2.2 Test Procedure 26
6.3 Power Spectral Density 27
6.3.1 Test Setup 27
6.3.2 Test Procedure 27
6.4 6 dB Bandwidth 27
6.4.1 Test Setup 27
6.4.2 Test Procedure 27
6.5 Occupied Bandwidth 28
6.5.1 Test Setup 28
6.5.2 Test Procedure 28
6.6 AC Power Conducted Emissions 28
6.6.1 Test Setup 28
6.6.2 Test Procedure 28
6.7 Unwanted Emissions below 1 GHz 29
6.7.1 Test Setup 29
6.7.2 Test Procedure 30

6.8 Unwanted Emissions above 1 GHz 31
6.8.1 Test Setup 31
6.8.2 Test Procedure 31

7 Test Results of Test Item 32

7.1 26 dB Bandwidth 32
7.2 RF Output Power 37
7.3 Power Spectral Density 60
7.4 6 dB Bandwidth 67
7.5 Occupied Bandwidth 69
7.6 AC Power Conducted Emissions 78
7.7 Unwanted Emissions below 1 GHz 80
7.8 Unwanted Emissions above 1 GHz 82

8 Pictures of Test Arrangements 143

9 Information of the Testing Laboratories 144

Release Control Record

Issue No.	Description	Date Issued
RFBCMA-WTW-P25030859-1	Original release.	2025/7/9

1 Certificate

Product:	Wi-Fi Extender
Brand:	T-Mobile
Test Model:	T-MOBILE V2 Wi-Fi MESH ACCESS POINT
Sample Status:	Engineering sample
Applicant:	Arcadyan Technology Corporation
Test Date:	2025/5/13 ~ 2025/6/20
Standard:	47 CFR FCC Part 15, Subpart E (Section 15.407)
Measurement procedure:	ANSI C63.10-2013 KDB 789033 D02 General UNII Test Procedure New Rules v02r01 KDB 662911 D01 Multiple Transmitter Output v02r01

The above equipment has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's RF characteristics under the conditions specified in this report.

2 Summary of Test Results

47 CFR FCC Part 15, Subpart E (Section 15.407)			
Clause	Test Item	Result	Remark
15.407(a)(2)	26 dB Bandwidth	-	For U-NII-2A U-NII-2C Band output power limitation is determined based on 26dBc bandwidth.
15.407(a)(1) 15.407(a)(2) 15.407(a)(3)	RF Output Power	Pass	Meet the requirement of limit.
15.407(a)(1) 15.407(a)(2) 15.407(a)(3)	Power Spectral Density	Pass	Meet the requirement of limit.
15.407(e)	6 dB Bandwidth	Pass	Meet the requirement of limit. (U-NII-3 Band only)
---	Occupied Bandwidth	-	Reference only.
15.407(b)(9)	AC Power Conducted Emissions	Pass	Minimum passing margin is -5.32 dB at 0.66587 MHz
15.407(b)(9)	Unwanted Emissions below 1 GHz	Pass	Minimum passing margin is -6.4 dB at 64.31 MHz
15.407(b) (1/10) 15.407(b) (2/10) 15.407(b) (3/10) 15.407(b) (4(i)/10)	Unwanted Emissions above 1 GHz	Pass	Minimum passing margin is -0.1 dB at 5150.00 MHz
15.203	Antenna Requirement	Pass	Antenna connector is ipex(MHF) not a standard connector.

Notes:

1. Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.
2. The “Dynamic Frequency Selection measurement” was recorded in DFS test report.

2.1 Measurement Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

Measurement	Specification	Expanded Uncertainty (k=2) (±)
26 dB Bandwidth	-	1050.00 Hz
RF Output Power	-	1.1 dB
Power Spectral Density	-	1.3 dB
6 dB Bandwidth	-	1050.00 Hz
Occupied Bandwidth	-	1050.00 Hz
AC Power Conducted Emissions	150 kHz ~ 30 MHz	1.9 dB
Unwanted Emissions below 1 GHz	9 kHz ~ 30 MHz	3.1 dB
	30 MHz ~ 1 GHz	5.1 dB
Unwanted Emissions above 1 GHz	1 GHz ~ 18 GHz	5.1 dB
	18 GHz ~ 40 GHz	5.3 dB

The other instruments specified are routine verified to remain within the calibrated levels, no measurement uncertainty is required to be calculated.

2.2 Supplementary Information

There is not any deviation from the test standards for the test method, and no modifications required for compliance.

3 General Information

3.1 General Description of EUT

Product	Wi-Fi Extender
Brand	T-Mobile
Test Model	T-MOBILE V2 Wi-Fi MESH ACCESS POINT
Status of EUT	Engineering sample
Power Supply Rating	15 Vdc from power adapter
Modulation Type	64QAM, 16QAM, QPSK, BPSK for OFDM 256QAM for OFDM in 11ac mode 1024QAM for OFDMA in 11ax mode 4096QAM for OFDMA in 11be mode
Modulation Technology	OFDM, OFDMA
Transfer Rate	802.11a: up to 54 Mbps 802.11n: up to 600 Mbps 802.11ac: up to 3466.7 Mbps 802.11ax: up to 4803.9 Mbps 802.11be: up to 5764.7 Mbps
Operating Frequency	5.18 GHz ~ 5.25 GHz 5.25 GHz ~ 5.32 GHz 5.5 GHz ~ 5.72 GHz 5.745 GHz ~ 5.825 GHz
Number of Channel	802.11a, 802.11n (HT20), 802.11ac (VHT20), 802.11ax (HE20), 802.11be (EHT20): 25 802.11n (HT40), 802.11ac (VHT40), 802.11ax (HE40), 802.11be (EHT40): 12 802.11ac (VHT80), 802.11ax (HE80), 802.11be (EHT80): 6 802.11ac (VHT160), 802.11ax (HE160), 802.11be (EHT160): 2
Output Power	**CDD Mode:** 5.18 GHz ~ 5.25 GHz: 935.848 mW (29.71 dBm) 5.25 GHz ~ 5.32 GHz: 248.933 mW (23.96 dBm) 5.5 GHz ~ 5.72 GHz: 248.061 mW (23.95 dBm) 5.745 GHz ~ 5.825 GHz: 998.374 mW (29.99 dBm) **Beamforming Mode:** 5.18 GHz ~ 5.25 GHz: 904.624 mW (29.56 dBm) 5.25 GHz ~ 5.32 GHz: 239.562 mW (23.79 dBm) 5.5 GHz ~ 5.72 GHz: 245.691 mW (23.9 dBm) 5.745 GHz ~ 5.825 GHz: 971.162 mW (29.87 dBm)
EUT Category	Indoor Access Point

Note:

1. The EUT uses following accessories.

Item	Brand	Model	Specification
AC Adapter 1	Mass power	PD030E-A1C0AVU	AC Input: 100-240 Vac, 0.8 A, 50-60 Hz DC Output: 15 Vdc, 2 A DC Output Cable: 1.8 m, unshielded cable, w/o ferrite core
AC Adapter 2	MOSO	P40-V1500R200-030CC0-US	AC Input: 100-240 Vac, 0.8 A, 50-60 Hz DC Output: 15 Vdc, 2 A DC Output Cable: 1.8 m, unshielded cable, w/o ferrite core
RJ45 Cable	-	-	Signal Line: 2 meter, unshielded, w/o ferrite core

2. The EUT has below radios as following table:

Radio 1	Radio 2	Radio 3	Radio 4
WLAN (2.4GHz)	WLAN (5GHz)	BT-LE	BT-LE / 802.15.4 (Zigbee/Open Thread/Matter)

3. Simultaneously transmission combination.

Combination	Technology
1	WLAN (2.4 GHz) + WLAN (5 GHz) + 802.15.4 (Zigbee/Open Thread/Matter) + BT-LE
Note: The emission of the simultaneous operation has been evaluated and no non-compliance was found.	

4. The above EUT information is declared by manufacturer and for more detailed features description, please refers to the manufacturer's specifications or user's manual.

3.2 Antenna Description of EUT

1. The antenna information is listed as below.

Antenna NO.	RF Chain NO.	Brand	Model	Antenna Net Gain (dBi)	Frequency Range (GHz)	Antenna Type	Connector Type
1_DB	0	HONGBO	290-70562	3.6	2.4 ~ 2.4835	Monopole	ipex(MHF)
				3.8	5.15 ~ 5.25		
				3.5	5.25 ~ 5.35		
				3.4	5.47 ~ 5.725		
				3.5	5.725 ~ 5.85		
2_DB	1	HONGBO	290-70563	2.8	2.4 ~ 2.4835	Monopole	ipex(MHF)
				1.7	5.15 ~ 5.25		
				1.8	5.25 ~ 5.35		
				2	5.47 ~ 5.725		
				2.2	5.725 ~ 5.85		
3_DB	2	HONGBO	290-70564	3.1	2.4 ~ 2.4835	Monopole	ipex(MHF)
				1.5	5.15 ~ 5.25		
				1.3	5.25 ~ 5.35		
				1.5	5.47 ~ 5.725		
				1.3	5.725 ~ 5.85		
4_DB	3	HONGBO	290-70565	2.8	2.4 ~ 2.4835	Monopole	ipex(MHF)
				2.5	5.15 ~ 5.25		
				2	5.25 ~ 5.35		
				1.8	5.47 ~ 5.725		
				2.2	5.725 ~ 5.85		
5_RX	0	HONGBO	290-70566	3.2	5.15 ~ 5.25	Monopole	ipex(MHF)
				3	5.25 ~ 5.35		
				2.7	5.47 ~ 5.725		
				2.2	5.725 ~ 5.85		
6_BT	BJ1	HONGBO	290-70567	4.1	2.4 ~ 2.4835	Monopole	ipex(MHF)
7_ioT	ZJ1	HONGBO	290-70568	5.1	2.4 ~ 2.4835	Monopole	ipex(MHF)

* Detail antenna specification please refer to antenna datasheet and/or antenna measurement report.

2. The directional antenna gain, please refer to the following table:

Frequency Range (GHz)	Directional Gain (dBi)
2.4~2.4835	5.13
5.15~5.25	5.8
5.25~5.35	6.02
5.47~5.725	5.57
5.725~5.85	5.67

3. The EUT incorporates a MIMO function:

5 GHz Band		
Modulation Mode	**TX & RX Configuration**	
802.11a	4TX	4RX
802.11n (HT20)	4TX	4RX
802.11n (HT40)	4TX	4RX
802.11ac (VHT20)	4TX	4RX
802.11ac (VHT40)	4TX	4RX
802.11ac (VHT80)	4TX	4RX
802.11ac (VHT160)	4TX	4RX
802.11ax (HE20)	4TX	4RX
802.11ax (HE40)	4TX	4RX
802.11ax (HE80)	4TX	4RX
802.11ax (HE160)	4TX	4RX
802.11be (EHT20)	4TX	4RX
802.11be (EHT40)	4TX	4RX
802.11be (EHT80)	4TX	4RX
802.11be (EHT160)	4TX	4RX

Note:
1. All of modulation mode support beamforming function except 802.11a modulation mode.
2. The EUT support Beamforming and CDD mode, therefore both mode were investigated and the worst case scenario was identified. The worst case data were presented in test report.
3. The modulation and bandwidth are similar for 802.11n mode for 20 MHz (40 MHz), 802.11ac mode for 20 MHz (40 MHz, 80 MHz, 160 MHz), 802.11ax mode for 20 MHz (40 MHz, 80 MHz, 160 MHz) and 802.11be mode for 20 MHz (40 MHz, 80 MHz, 160 MHz). Therefore the investigated worst case is the representative mode in test report.

3.3 Channel List

FOR 5180 ~ 5320 MHz

8 channels are provided for 802.11a, 802.11n (HT20), 802.11ac (VHT20), 802.11ax (HE20), 802.11be (EHT20):

Channel	Frequency	Channel	Frequency
36	5180 MHz	52	5260 MHz
40	5200 MHz	56	5280 MHz
44	5220 MHz	60	5300 MHz
48	5240 MHz	64	5320 MHz

4 channels are provided for 802.11n (HT40), 802.11ac (VHT40), 802.11ax (HE40), 802.11be (EHT40):

Channel	Frequency	Channel	Frequency
38	5190 MHz	54	5270 MHz
46	5230 MHz	62	5310 MHz

2 channels are provided for 802.11ac (VHT80), 802.11ax (HE80), 802.11be (EHT80):

Channel	Frequency	Channel	Frequency
42	5210 MHz	58	5290 MHz

1 straddle channel is provided for 802.11ac (VHT160), 802.11ax (HE160), 802.11be (EHT160):

Channel	Frequency
50	5250 MHz

FOR 5500 ~ 5720 MHz

12 channels are provided for 802.11a, 802.11n (HT20), 802.11ac (VHT20), 802.11ax (HE20), 802.11be (EHT20):

Channel	Frequency	Channel	Frequency
100	5500 MHz	124	5620 MHz
104	5520 MHz	128	5640 MHz
108	5540 MHz	132	5660 MHz
112	5560 MHz	136	5680 MHz
116	5580 MHz	140	5700 MHz
120	5600 MHz	144	5720 MHz

6 channels are provided for 802.11n (HT40), 802.11ac (VHT40), 802.11ax (HE40), 802.11be (EHT40):

Channel	Frequency	Channel	Frequency
102	5510 MHz	126	5630 MHz
110	5550 MHz	134	5670 MHz
118	5590 MHz	142	5710 MHz

3 channels are provided for 802.11ac (VHT80), 802.11ax (HE80), 802.11be (EHT80):

Channel	Frequency	Channel	Frequency
106	5530 MHz	138	5690 MHz
122	5610 MHz		

1 channel is provided for 802.11ac (VHT160), 802.11ax (HE160), 802.11be (EHT160):

Channel	Frequency
114	5570 MHz

FOR 5745 ~ 5825 MHz:

5 channels are provided for 802.11a, 802.11n (HT20), 802.11ac (VHT20), 802.11ax (HE20), 802.11be (EHT20):

Channel	Frequency	Channel	Frequency
149	5745 MHz	161	5805 MHz
153	5765 MHz	165	5825 MHz
157	5785 MHz		

2 channels are provided for 802.11n (HT40), 802.11ac (VHT40), 802.11ax (HE40), 802.11be (EHT40):

Channel	Frequency	Channel	Frequency
151	5755 MHz	159	5795 MHz

1 channel is provided for 802.11ac (VHT80), 802.11ax (HE80), 802.11be (EHT80):

Channel	Frequency
155	5775 MHz

3.4 Test Mode Applicability and Tested Channel Detail

Pre-Scan:	1. The AC Adapter has the following models: AC Adapter 1 (MASS power)/ AC Adapter 2 (MOSO). Pre-scan these models of AC Adapters and find the worst case as a representative test condition. 2. Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
Worst Case:	1. AC Adapter worst condition: AC Adapter 2 (MOSO)

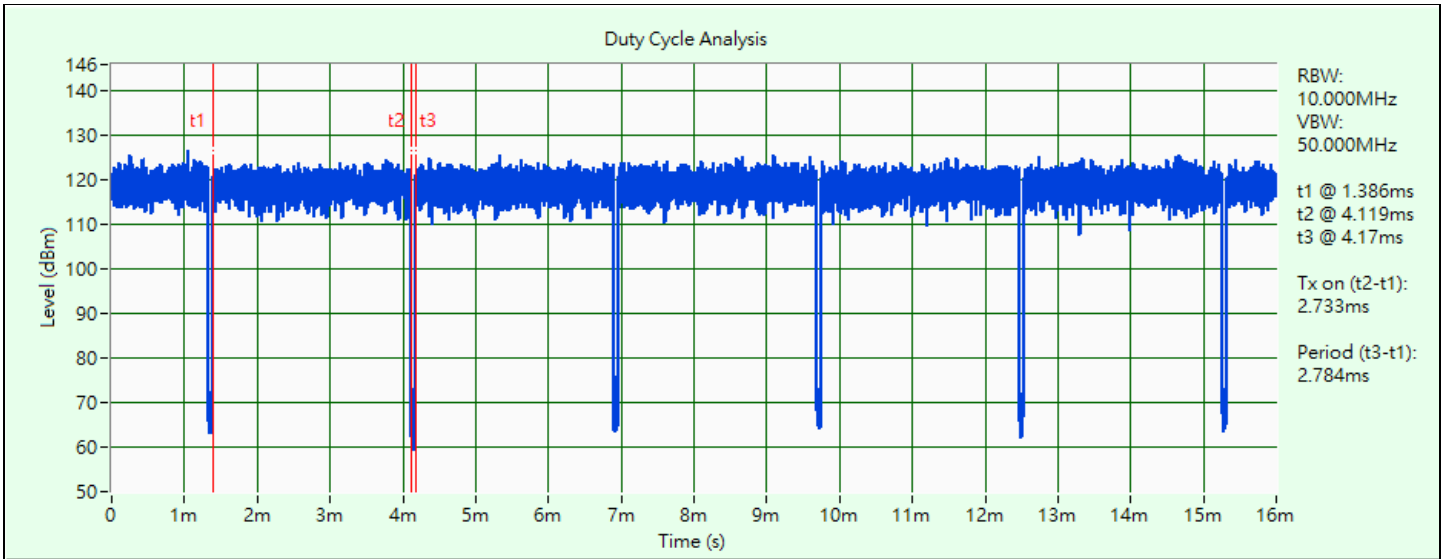
Following channel(s) was (were) selected for the final test as listed below:

Test Item	Mode	Signal Mode	Tested Channel	Modulation	Data Rate Parameter
26 dB Bandwidth	802.11a	CDD	52, 60, 64, 100, 116, 140, 144	BPSK	6Mb/s
	802.11be (EHT20)		52, 60, 64, 100, 116, 140, 144	BPSK	MCS0
	802.11be (EHT40)		54, 62, 102, 110, 134, 142	BPSK	MCS0
	802.11be (EHT80)		58, 106, 122, 138	BPSK	MCS0
	802.11be (EHT160)		50, 114	BPSK	MCS0
RF Output Power	802.11a	CDD	36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165	BPSK	6Mb/s
	802.11ac (VHT20)	CDD & Beamforming	36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165	BPSK	MCS0
	802.11ac (VHT40)		38, 46, 54, 62, 102, 110, 134, 142, 151, 159	BPSK	MCS0
	802.11ac (VHT80)		42, 58, 106, 122, 138, 155	BPSK	MCS0
	802.11ac (VHT160)		50, 114	BPSK	MCS0
	802.11be (EHT20)		36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165	BPSK	MCS0
	802.11be (EHT40)		38, 46, 54, 62, 102, 110, 134, 142, 151, 159	BPSK	MCS0
	802.11be (EHT80)		42, 58, 106, 122, 138, 155	BPSK	MCS0
	802.11be (EHT160)		50, 114	BPSK	MCS0
Power Spectral Density	802.11a	CDD	36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165	BPSK	6Mb/s
	802.11be (EHT20)		36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165	BPSK	MCS0
	802.11be (EHT40)		38, 46, 54, 62, 102, 110, 134, 142, 151, 159	BPSK	MCS0
	802.11be (EHT80)		42, 58, 106, 122, 138, 155	BPSK	MCS0
	802.11be (EHT160)		50, 114	BPSK	MCS0
6 dB Bandwidth	802.11a	CDD	144, 149, 157, 165	BPSK	6Mb/s
	802.11be (EHT20)		144, 149, 157, 165	BPSK	MCS0
	802.11be (EHT40)		142, 151, 159	BPSK	MCS0
	802.11be (EHT80)		138, 155	BPSK	MCS0
Occupied Bandwidth	802.11a	CDD	36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165	BPSK	6Mb/s
	802.11be (EHT20)		36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165	BPSK	MCS0
	802.11be (EHT40)		38, 46, 54, 62, 102, 110, 134, 142, 151, 159	BPSK	MCS0
	802.11be (EHT80)		42, 58, 106, 122, 138, 155	BPSK	MCS0
	802.11be (EHT160)		50, 114	BPSK	MCS0

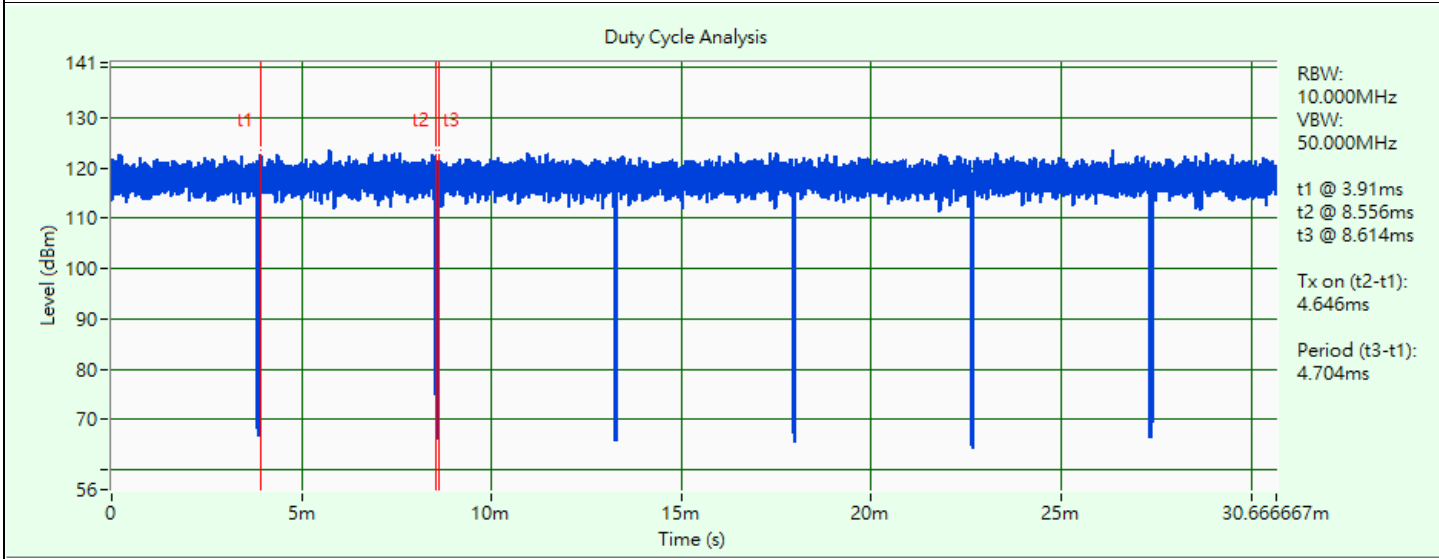
Test Item	Mode	Signal Mode	Tested Channel	Modulation	Data Rate Parameter
AC Power Conducted Emissions	802.11be (EHT20)	CDD	48	BPSK	MCS0
Unwanted Emissions below 1 GHz	802.11be (EHT20)	CDD	48	BPSK	MCS0
Unwanted Emissions above 1 GHz	802.11a	CDD	36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165	BPSK	6Mb/s
	802.11be (EHT20)		36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165	BPSK	MCS0
	802.11be (EHT40)		38, 46, 54, 62, 102, 110, 134, 142, 151, 159	BPSK	MCS0
	802.11be (EHT80)		42, 58, 106, 122, 138, 155	BPSK	MCS0
	802.11be (EHT160)		50, 114	BPSK	MCS0
Note: Partial RU (resource unit) mechanism is not supported.					

3.5 Duty Cycle of Test Signal

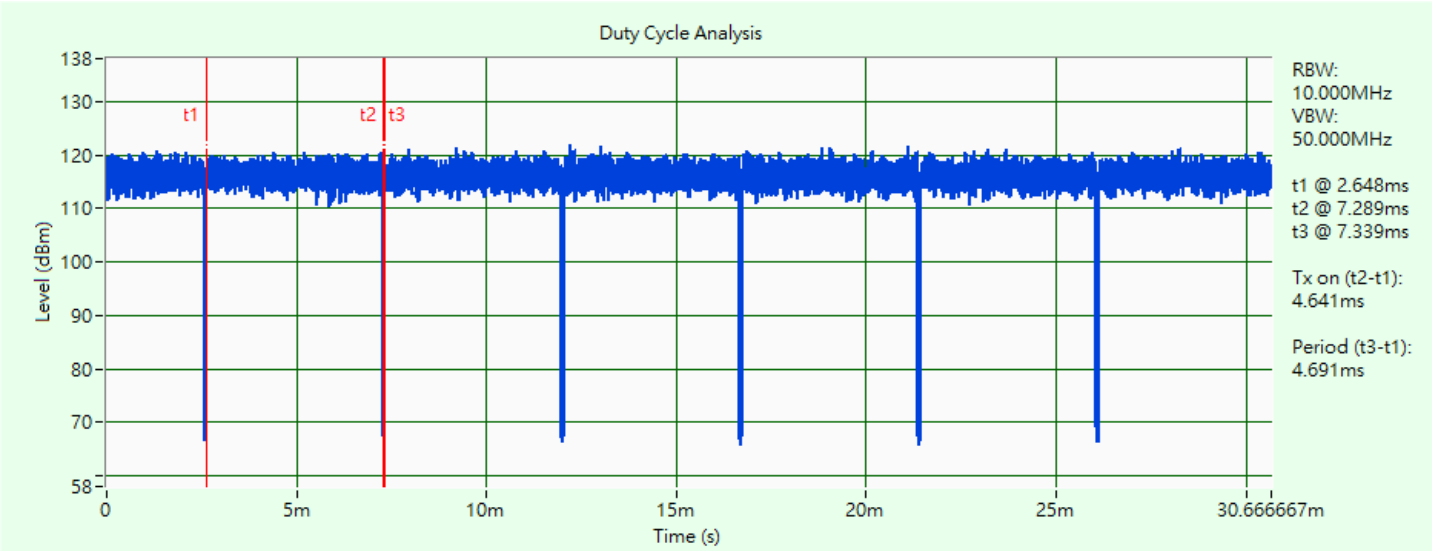
802.11a: Duty cycle = 2.733 ms / 2.784 ms x 100% = 98.2%
802.11ac (VHT20): Duty cycle = 4.646 ms / 4.704 ms x 100% = 98.8%
802.11ac (VHT40): Duty cycle = 4.641 ms / 4.691 ms x 100% = 98.9%
802.11ac (VHT80): Duty cycle = 3.261 ms / 3.321 ms x 100% = 98.2%
802.11ac (VHT160): Duty cycle = 3.265 ms / 3.316 ms x 100% = 98.5%
802.11be (EHT20): Duty cycle = 4.646 ms / 4.704 ms x 100% = 98.8%
802.11be (EHT40): Duty cycle = 4.641 ms / 4.691 ms x 100% = 98.9%
802.11be (EHT80): Duty cycle = 3.261 ms / 3.321 ms x 100% = 98.2%
802.11be (EHT160): Duty cycle = 3.265 ms / 3.316 ms x 100% = 98.5%



802.11a



802.11ac (VHT20)



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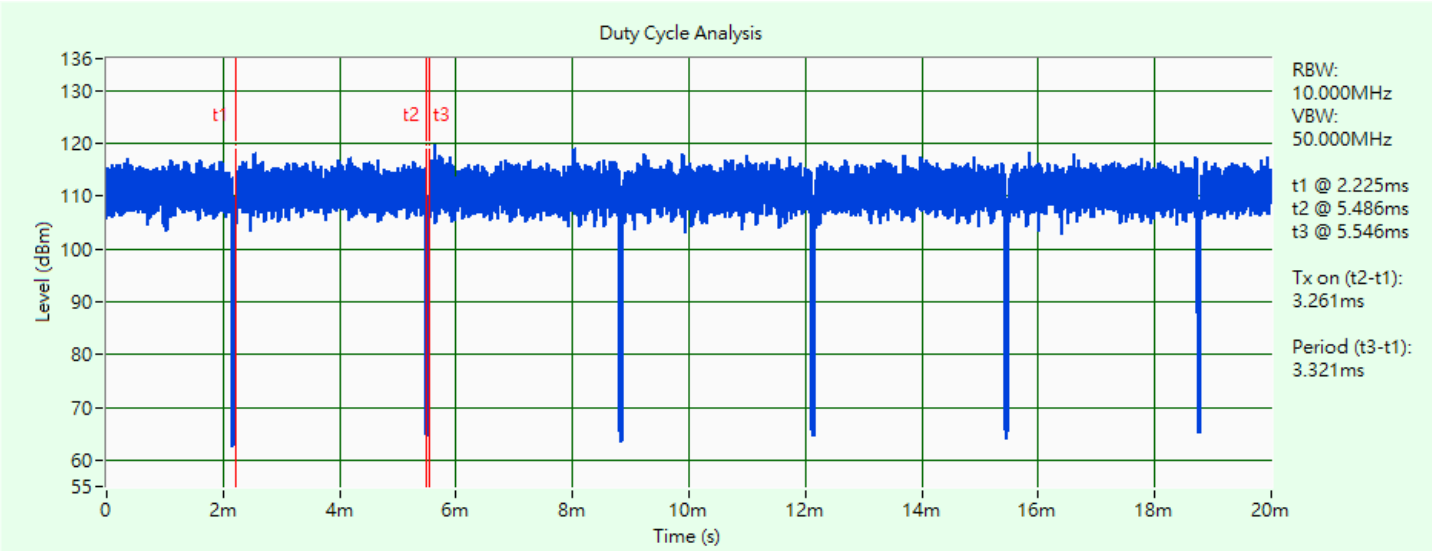

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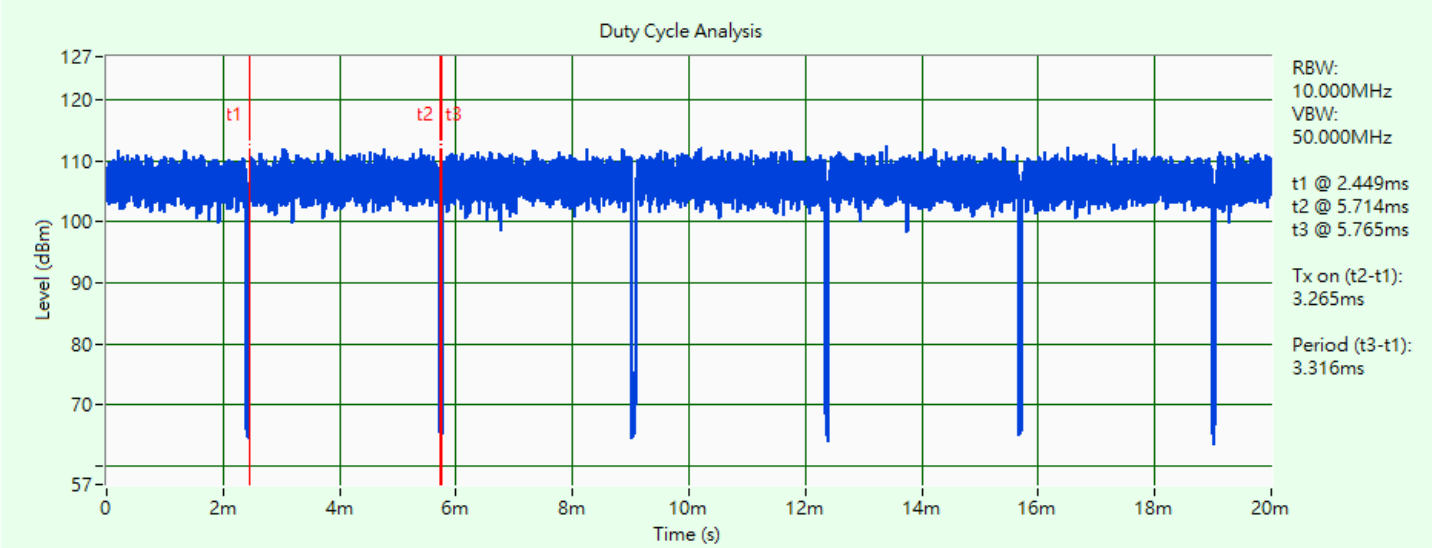

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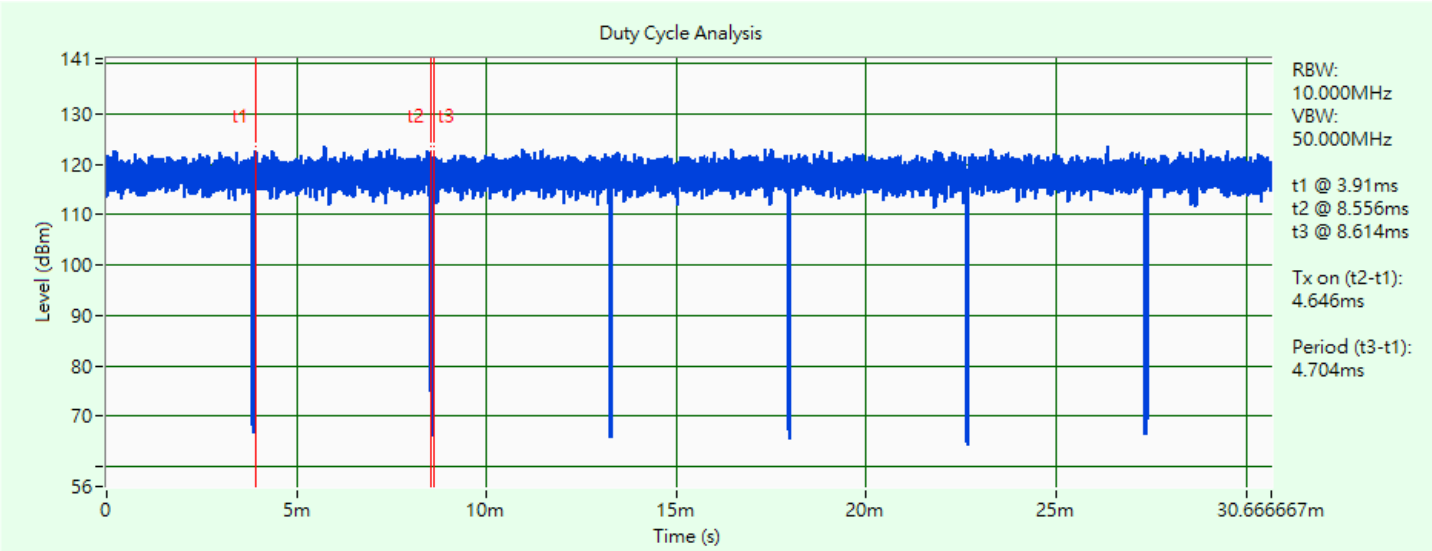
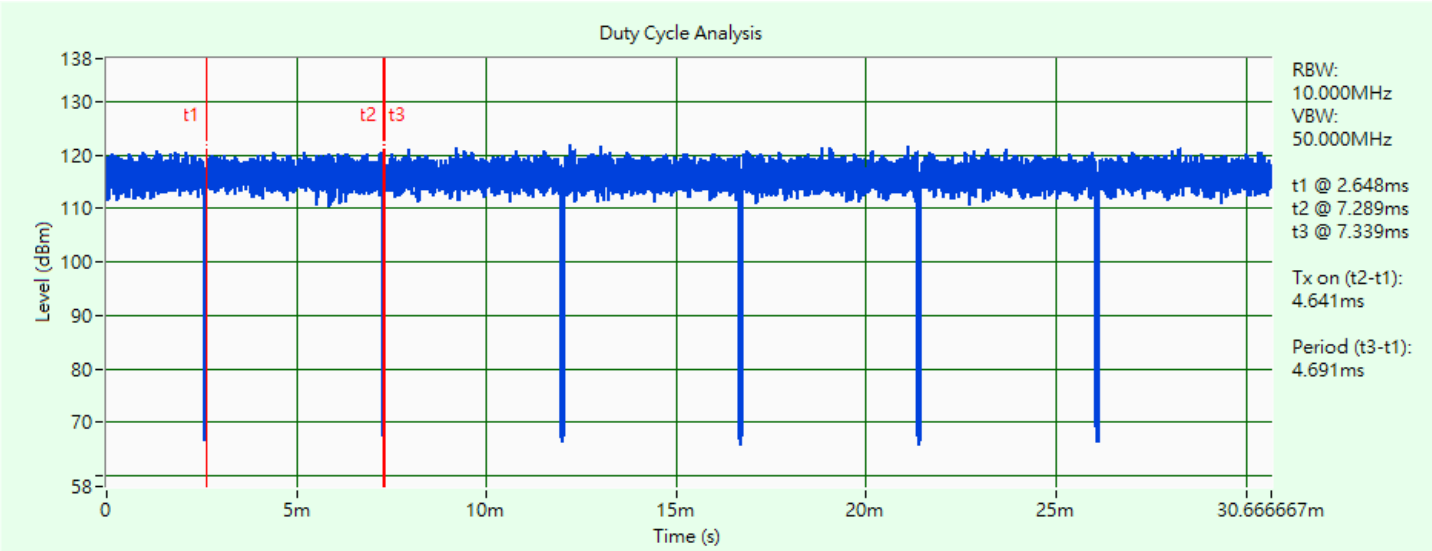
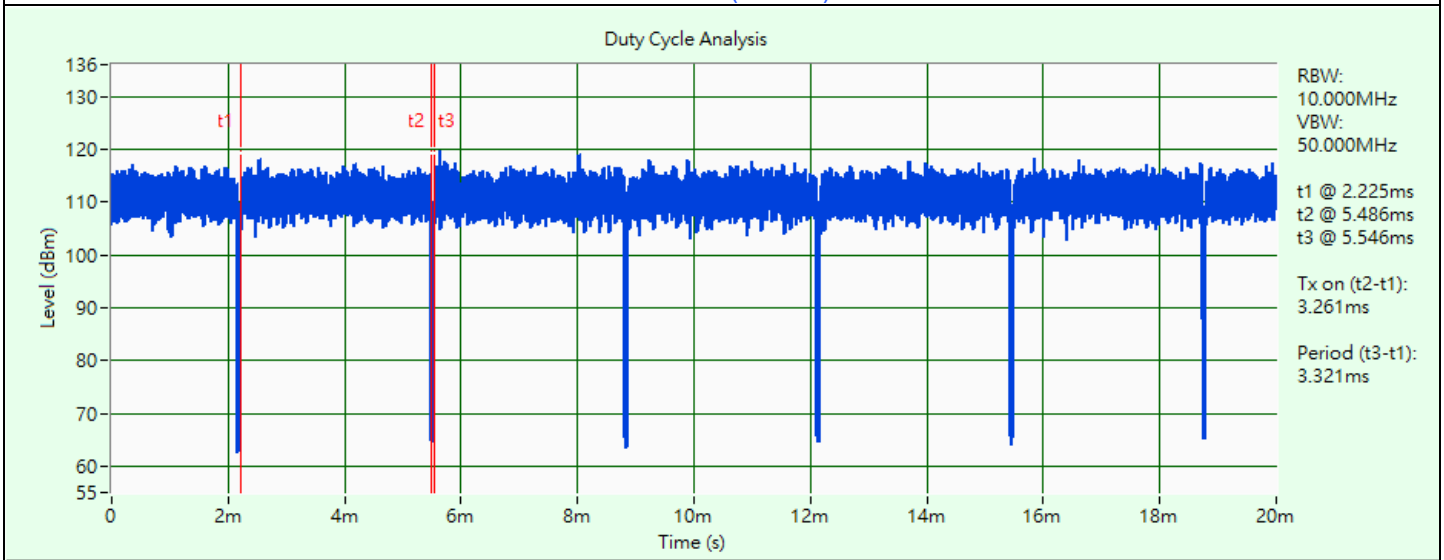


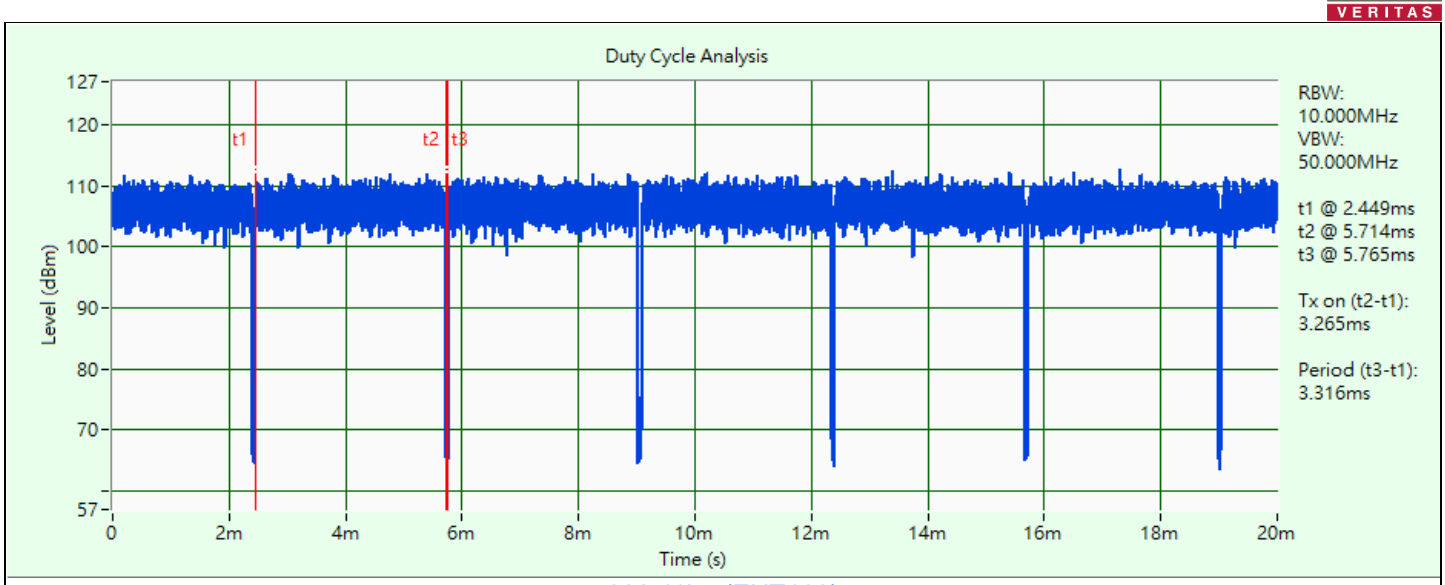
802.11be (EHT20)



802.11be (EHT40)



802.11be (EHT80)

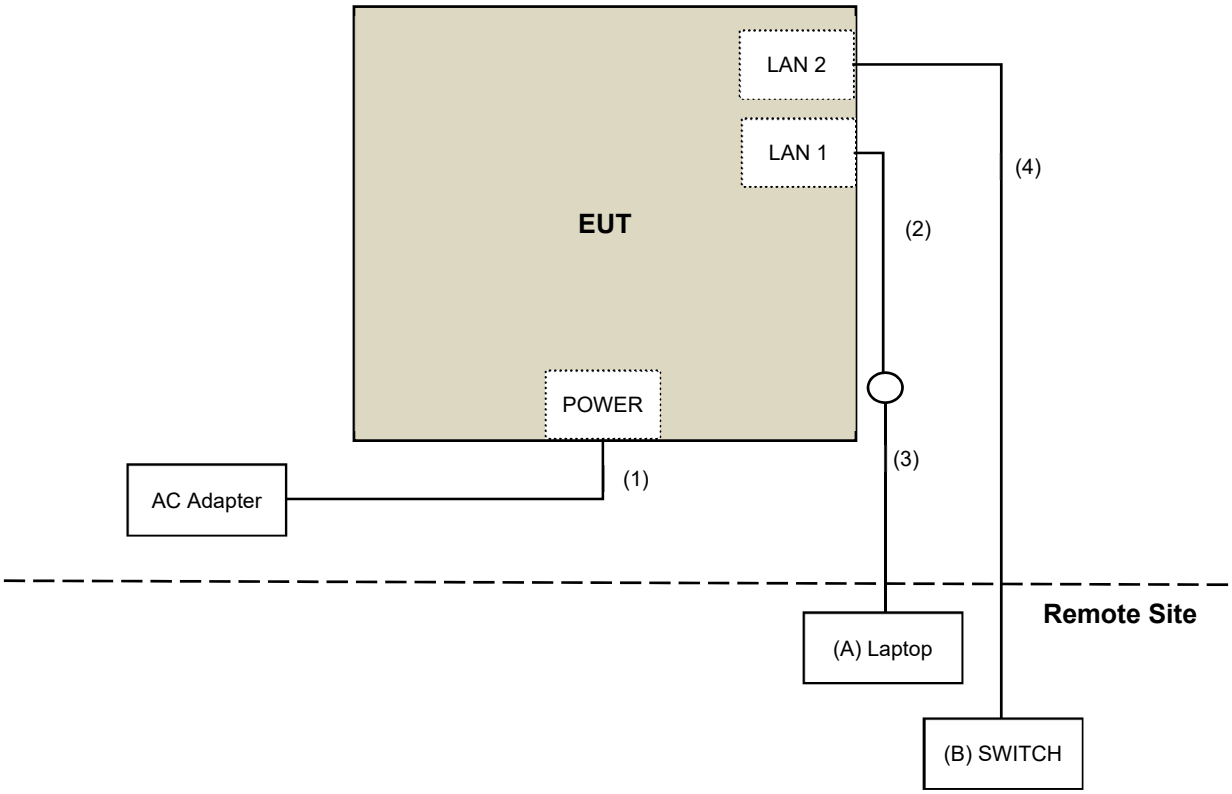


802.11be (EHT160)

3.6 Test Program Used and Operation Descriptions

Controlling software (QATool_20240327_External (MT7992 V0.0.2.106)) has been activated to set the EUT under transmission condition continuously at specific channel frequency.

3.7 Connection Diagram of EUT and Peripheral Devices



3.8 Configuration of Peripheral Devices and Cable Connections

ID	Product	Brand	Model No.	Serial No.	FCC ID	Remarks
A	Laptop	DELL	E6420	H62T3R1	DoC	Provided by Lab
B	SWITCH	D-Link	DGS-1005D	DR8WC92000523	N/A	Provided by Lab

ID	Cable Descriptions	Qty.	Length (m)	Shielding (Yes/No)	Cores (Qty.)	Remarks
1	DC Cable	1	1.8	No	0	Supplied by applicant
2	RJ-45 Cable	1	2	No	0	Supplied by applicant
3	RJ-45 Cable	1	10	No	0	Provided by Lab
4	RJ-45 Cable	1	10	No	0	Provided by Lab

4 Test Instruments

The calibration interval of the all test instruments are 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

4.1 26 dB Bandwidth

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Fixed Attenuator Woken	00800A1K01A-10	00800A1K01A-10-01	2024/5/29 2025/5/23	2025/5/28 2026/5/22
PXA Signal Analyzer Keysight	N9030A	MY55410176	2024/6/12	2025/6/11
Software	ADT_RF Test Software V8	N/A	N/A	N/A

Notes:

1. The test was performed in Oven room 2.
2. Tested Date: 2025/5/17 ~ 2025/6/10

4.2 RF Output Power

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Fixed Attenuator Woken	00800A1K01A-10	00800A1K01A-10-01	2024/5/29 2025/5/23	2025/5/28 2026/5/22
	00800A1K01A-20	00800A1K01A-20-02	2024/5/29 2025/5/23	2025/5/28 2026/5/22
Pulse Power Sensor Anritsu	MA2411B	1726434	2024/6/7 2025/5/28	2025/6/6 2026/5/27
PXA Signal Analyzer Keysight	N9030A	MY55410176	2024/6/12	2025/6/11
RF Power Meter Anritsu	ML2495A	1529002	2024/6/7 2025/6/3	2025/6/6 2026/6/2
Software	ADT_RF Test Software V8	N/A	N/A	N/A

Notes:

1. The test was performed in Oven room 2.
2. Tested Date: 2025/5/17 ~ 2025/6/10

4.3 Power Spectral Density

Refer to section 4.1 to get the tested date and information of the instruments.

4.4 6 dB Bandwidth

Refer to section 4.1 to get the tested date and information of the instruments.

4.5 Occupied Bandwidth

Refer to section 4.1 to get the tested date and information of the instruments.

4.6 AC Power Conducted Emissions

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
50 ohm terminal resistance Telegartner	50 ohm	3	2024/11/1	2025/10/31
EMI Test Receiver R&S	ESCS 30	100375	2025/5/21	2026/5/20
Fixed Attenuator STI	STI02-2200-10	005	2025/2/17	2026/2/16
LISN R&S	ESH3-Z5	835239/001	2025/3/27	2026/3/26
		848773/004	2024/10/7	2025/10/6
RF Coaxial Cable JYEBAO	5D-FB	COCCAB-001	2025/2/17	2026/2/16
Software BVADT	BVADT_Cond_V7.3.7.4	N/A	N/A	N/A

Notes:

1. The test was performed in Conduction 1
2. Tested Date: 2025/5/26 ~ 2025/5/27

4.7 Unwanted Emissions below 1 GHz

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Bi_Log Antenna Schwarzbeck	VULB 9168	9168-0842	2024/10/8	2025/10/7
Boresight Antenna Tower & Turn Table Max-Full	MF-7802BS	MF780208530	N/A	N/A
EMI Test Receiver R&S	ESR7	102026	2025/3/25	2026/3/24
Fixed Attenuator Mini-Circuits	UNAT-5+	PAD-ATT5-02	2025/3/29	2026/3/28
Loop Antenna TESEQ	HLA 6121	63620	2024/10/17	2025/10/16
Preamplifier EMCI	EMC330N	980538	2025/3/29	2026/3/28
	EMC001340	980142	2025/2/17	2026/2/16
PXA Signal Analyzer Keysight	N9030B	MY57141948	2025/5/20	2026/5/19
RF Coaxial Cable PEWC	8D	966-5-1	2025/3/29	2026/3/28
		966-5-2	2025/3/29	2026/3/28
		966-5-3	2025/3/29	2026/3/28
Software	ADT_Radiated_V8.7.08	N/A	N/A	N/A

Notes:

1. The test was performed in 966 Chamber No. 5.
2. Tested Date: 2025/5/26

4.8 Unwanted Emissions above 1 GHz

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Boresight Antenna Tower & Turn Table Max-Full	MF-7802BS	MF780208530	N/A	N/A
EMI Test Receiver R&S	ESR7	102026	2025/3/25	2026/3/24
Horn Antenna Schwarzbeck	BBHA 9120D	9120D-1819	2024/11/10	2025/11/9
	BBHA 9170	9170-739	2024/11/10	2025/11/9
Preamplifier EMCI	EMC12630SE	980509	2025/1/18	2026/1/17
	EMC184045SE	980387	2024/8/8	2025/8/7
PXA Signal Analyzer Keysight	N9030B	MY57141948	2024/5/20 2025/5/20	2025/5/19 2026/5/19
RF Coaxial Cable EMCI	EMC102-KM-KM-1200	160924	2025/1/24	2026/1/23
	EMC102-KM-KM-4000	200214	2025/1/24	2026/1/23
	EMC104-SM-SM-1500	180503	2025/3/8	2026/3/7
	EMC104-SM-SM-2000	180501	2025/3/8	2026/3/7
	EMC104-SM-SM-6000	180506	2025/3/8	2026/3/7
Software	ADT_Radiated_V8.7.08	N/A	N/A	N/A

Notes:

1. The test was performed in 966 Chamber No. 5.
2. Tested Date: 2025/5/13 ~ 2025/6/20

5 Limits of Test Items

5.1 26 dB Bandwidth

The results are for reference only.

5.2 RF Output Power

Operation Band	EUT Category	Limit
U-NII-1	Outdoor Access Point	1 Watt (30 dBm) (Max. e.i.r.p ≦ 125mW(21 dBm) at any elevation angle above 30 degrees as measured from the horizon)
	Fixed point-to-point Access Points	1 Watt (30 dBm)
	Indoor Access Point	1 Watt (30 dBm)
	Client devices	250mW (24 dBm)

Operation Band	Limit
U-NII-2A	250 mW (24 dBm) or 11 dBm+10 log B*
U-NII-2C	250 mW (24 dBm) or 11 dBm+10 log B*
U-NII-3	1 Watt (30 dBm)

*B is the 26 dB emission bandwidth in megahertz

Per KDB 662911 D01 Multiple Transmitter Output Method of conducted output power measurement on IEEE 802.11 devices,

Array Gain = 0 dB (i.e., no array gain) for $N_{ANT} \leq 4$;
Array Gain = 0 dB (i.e., no array gain) for channel widths ≥ 40 MHz for any N_{ANT};
Array Gain = 5 log(N_{ANT}/N_{SS}) dB or 3 dB, whichever is less, for 20-MHz channel widths with $N_{ANT} \geq 5$.

For power measurements on all other devices: Array Gain = 10 log(N_{ANT}/N_{SS}) dB.

5.3 Power Spectral Density

Operation Band	EUT Category	Limit
U-NII-1	Outdoor Access Point	17 dBm/MHz
	Fixed point-to-point Access Points	
	Indoor Access Point	
	Client devices	11 dBm/MHz

Operation Band	Limit
U-NII-2A	11 dBm/MHz
U-NII-2C	11 dBm/MHz
U-NII-3	30 dBm/500 kHz

5.4 6 dB Bandwidth

Within the 5.725-5.850 GHz band, the minimum 6 dB bandwidth of U-NII devices shall be at least 500 kHz.

5.5 Occupied Bandwidth

The results are for reference only.

5.6 AC Power Conducted Emissions

Frequency (MHz)	Conducted Limit (dBuV)	
	Quasi-peak	Average
0.15 - 0.5	66 - 56	56 - 46
0.50 - 5.0	56	46
5.0 - 30.0	60	50

Notes:

1. The lower limit shall apply at the transition frequencies.
2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50 MHz.

5.7 Unwanted Emissions below 1 GHz

Radiated emissions which fall in the restricted bands must comply with the radiated emission limits specified as below table.

Frequencies (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009 ~ 0.490	2400/F(kHz)	300
0.490 ~ 1.705	24000/F(kHz)	30
1.705 ~ 30.0	30	30
30 ~ 88	100	3
88 ~ 216	150	3
216 ~ 960	200	3
Above 960	500	3

Notes:

1. The lower limit shall apply at the transition frequencies.
2. Emission level (dBuV/m) = 20 log Emission level (uV/m).

5.8 Unwanted Emissions above 1 GHz

Radiated emissions which fall in the restricted bands must comply with the radiated emission limits specified as below table.

Frequencies (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
Above 960	500	3

Notes:

1. The lower limit shall apply at the transition frequencies.
2. Emission level (dBuV/m) = 20 log Emission level (uV/m).
3. For frequencies above 1000 MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20 dB under any condition of modulation.

Limits of unwanted emission out of the restricted bands

Applicable To	Limit	
789033 D02 General UNII Test Procedure New Rules v02r01	Field Strength at 3 m	
	PK: 74 (dBμV/m)	AV: 54 (dBμV/m)

For transmitters operating in the 5.15-5.25 GHz band:

Applicable To	EIRP Limit	Equivalent Field Strength at 3 m
15.407(b)(1)	PK: -27 (dBm/MHz)	PK: 68.2 (dBμV/m)

For transmitters operating in the 5.25-5.35 GHz band:

Applicable To	EIRP Limit	Equivalent Field Strength at 3 m
15.407(b)(2)	PK: -27 (dBm/MHz)	PK: 68.2 (dBμV/m)

For transmitters operating in the 5.47-5.725 GHz band:

Applicable To	EIRP Limit	Equivalent Field Strength at 3 m
15.407(b)(3)	PK: -27 (dBm/MHz)	PK: 68.2 (dBμV/m)

For transmitters operating in the 5.725-5.850 GHz band:

Applicable To	EIRP Limit	Equivalent Field Strength at 3 m
15.407(b)(4)(i)	PK: -27 (dBm/MHz) *1 PK: 10 (dBm/MHz) *2 PK: 15.6 (dBm/MHz) *3 PK: 27 (dBm/MHz) *4	PK: 68.2 (dBμV/m) *1 PK: 105.2 (dBμV/m) *2 PK: 110.8 (dBμV/m) *3 PK: 122.2 (dBμV/m) *4
*1 beyond 75 MHz or more above of the band edge. *2 below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above. *3 below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above. *4 from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.		

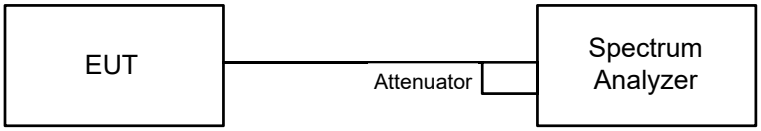
Note: The following formula is used to convert the equipment isotropic radiated power (eirp) to field strength:

$$E = \frac{1000000\sqrt{30P}}{3}$$ μV/m, where P is the eirp (Watts).

6 Test Arrangements

6.1 26 dB Bandwidth

6.1.1 Test Setup



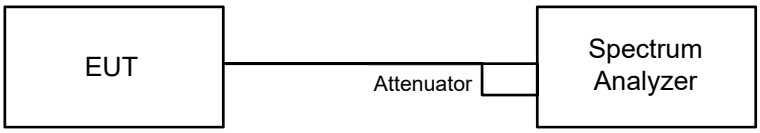
6.1.2 Test Procedure

a. Set RBW = approximately 1% of the emission bandwidth.
b. Set the VBW > RBW.
c. Detector = Peak.
d. Trace mode = max hold.
e. Measure the maximum width of the emission that is 26 dB down from the peak of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.

6.2 RF Output Power

6.2.1 Test Setup

For channel straddling:



6.2.2 Test Procedure

Method PM is used to perform output power measurement, trigger and gating function of wide band power meter is enabled to measure max output power of TX on burst and set the detector to average. Duty factor is not added to measured value.

For channel straddling:

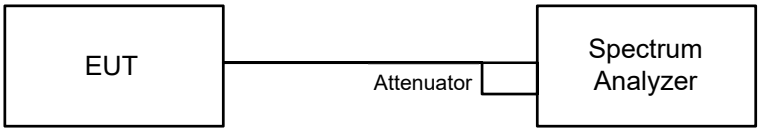
Method SA-1

a. Set span to encompass the entire emission bandwidth (EBW) of the signal.
b. Set RBW = 1 MHz, Set VBW ≥ 3 MHz, Detector = RMS
c. Sweep points ≥ [2 × span / RBW]. (This gives bin-to-bin spacing ≤ RBW / 2, so that narrowband signals are not lost between frequency bins.)
d. Sweep time = auto, trigger set to “free run”.
e. Trace average at least 100 traces in power averaging mode.
f. Record the max value

Note: When measuring straddle channel power, use compute power by integrating the spectrum across the 26 dB EBW or 99% OBW of the signal using the instrument’s band power measurement function, with band limits set equal to the EBW or OBW band edges. If the instrument does not have a band power function, then sum the spectrum levels (in power units) at 1 MHz intervals extending across the 26 dB EBW or 99% OBW of the spectrum.

6.3 Power Spectral Density

6.3.1 Test Setup



6.3.2 Test Procedure

For specified measurement bandwidth 1 MHz:
Method SA-1

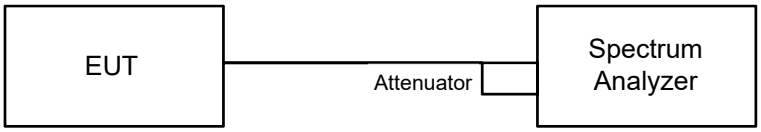
a. Set span to encompass the entire emission bandwidth (EBW) of the signal.
b. Set RBW = 1 MHz, Set VBW ≥ 3 MHz, Detector = RMS
c. Sweep points ≥ [2 × span / RBW]. (This gives bin-to-bin spacing ≤ RBW / 2, so that narrowband signals are not lost between frequency bins.)
d. Sweep time = auto, trigger set to “free run”.
e. Trace average at least 100 traces in power averaging mode.
f. Record the max value

For specified measurement bandwidth 500 kHz:
Method SA-1

a. Set span to encompass the entire emission bandwidth (EBW) of the signal.
b. Set RBW = 300 kHz, Set VBW ≥ 1 MHz, Detector = RMS
c. Scale the observed power level to an equivalent value in 500 kHz by adjusting (increasing) the measured power by a bandwidth correction factor (BWCF) where BWCF = 10log(500 kHz/300 kHz)
d. Sweep points ≥ [2 × span / RBW]. (This gives bin-to-bin spacing ≤ RBW / 2, so that narrowband signals are not lost between frequency bins.)
e. Sweep time = auto, trigger set to “free run”.
f. Trace average at least 100 traces in power averaging mode.
g. Record the max value

6.4 6 dB Bandwidth

6.4.1 Test Setup

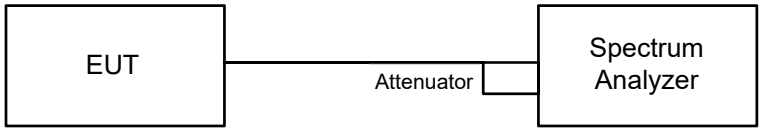


6.4.2 Test Procedure

a. Set resolution bandwidth (RBW) = 100 kHz.
b. Set the video bandwidth (VBW) ≥ 3 x RBW, Detector = Peak.
c. Trace mode = max hold.
d. Sweep = auto couple.
e. Measure the maximum width of the emission that is constrained by the frequencies associated with the two amplitude points (upper and lower) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

6.5 Occupied Bandwidth

6.5.1 Test Setup

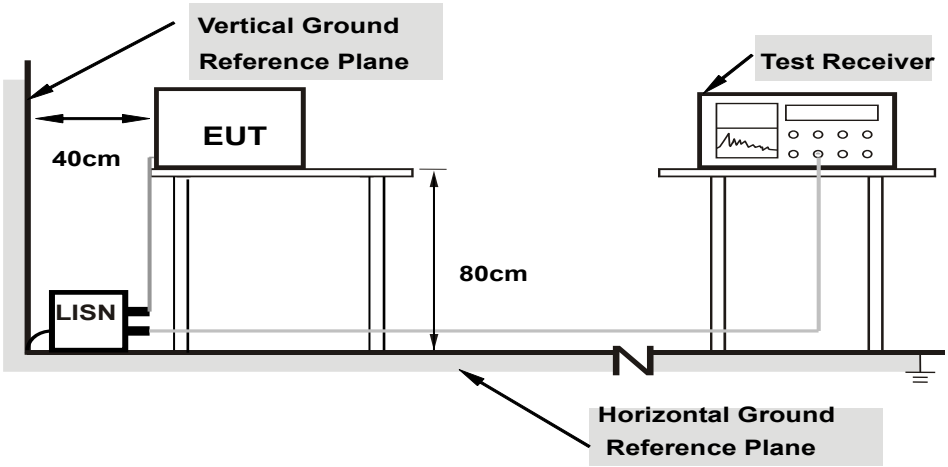


6.5.2 Test Procedure

The transmitter output was connected to the spectrum analyzer through an attenuator. The bandwidth of the fundamental frequency was measured by spectrum analyzer with resolution bandwidth in the range of 1% to 5% of the anticipated emission bandwidth, and a video bandwidth at least 3x the resolution bandwidth and set the detector to Sampling. The width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5% of the total mean power of a given emission.

6.6 AC Power Conducted Emissions

6.6.1 Test Setup



Note: 1.Support units were connected to second LISN.

For the actual test configuration, please refer to the attached file (Test Setup Photo).

6.6.2 Test Procedure

a. The EUT was placed on a 0.8 meter to the top of table and placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50 uH of coupling impedance for the measuring instrument.

b. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.

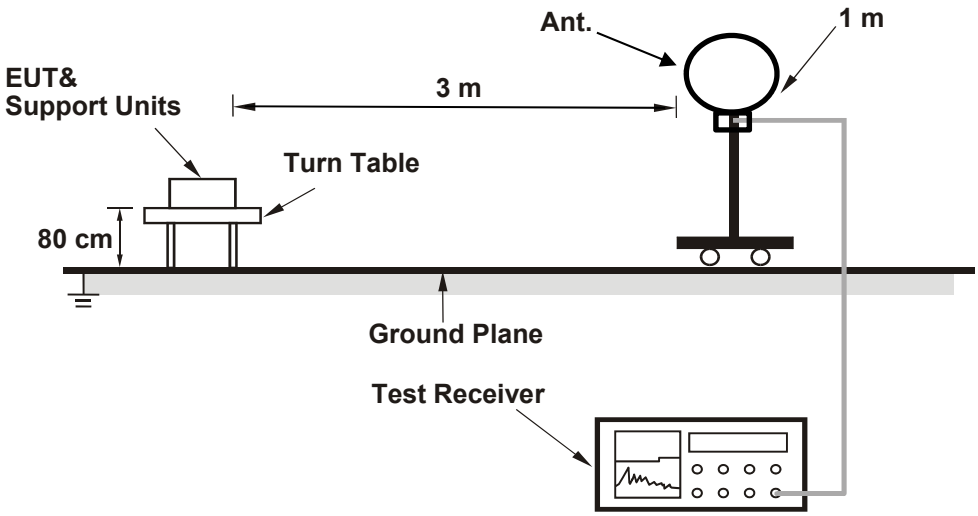
c. The frequency range from 150 kHz to 30 MHz was searched. Emission levels under (Limit – 20 dB) was not recorded.

Note: The resolution bandwidth and video bandwidth of test receiver is 9 kHz for quasi-peak detection (QP) and average detection (AV) at frequency 0.15 MHz-30 MHz.

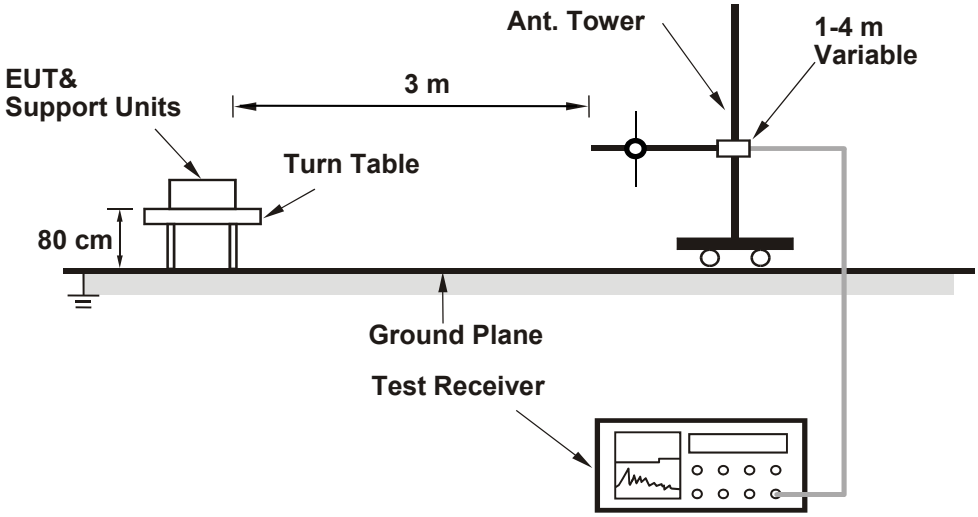
6.7 Unwanted Emissions below 1 GHz

6.7.1 Test Setup

For Radiated emission below 30 MHz



For Radiated emission above 30 MHz



For the actual test configuration, please refer to the attached file (Test Setup Photo).

6.7.2 Test Procedure

For Radiated emission below 30 MHz

a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.

b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.

c. Parallel, perpendicular, and ground-parallel orientations of the antenna are set to make the measurement.

d. For each suspected emission, the EUT was arranged to its worst case and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.

e. The test-receiver system was set to Quasi-Peak Detect Function and Specified Bandwidth with Maximum Hold Mode, except for the frequency band (9 kHz to 90 kHz and 110 kHz to 490 kHz) set to average detect function and peak detect function.

Notes:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 200 Hz at frequency below 150 kHz.
2. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 9 kHz or 10 kHz at frequency (150 kHz to 30 MHz).
3. All modes of operation were investigated and the worst-case emissions are reported.

For Radiated emission above 30 MHz

a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.

b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.

c. The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.

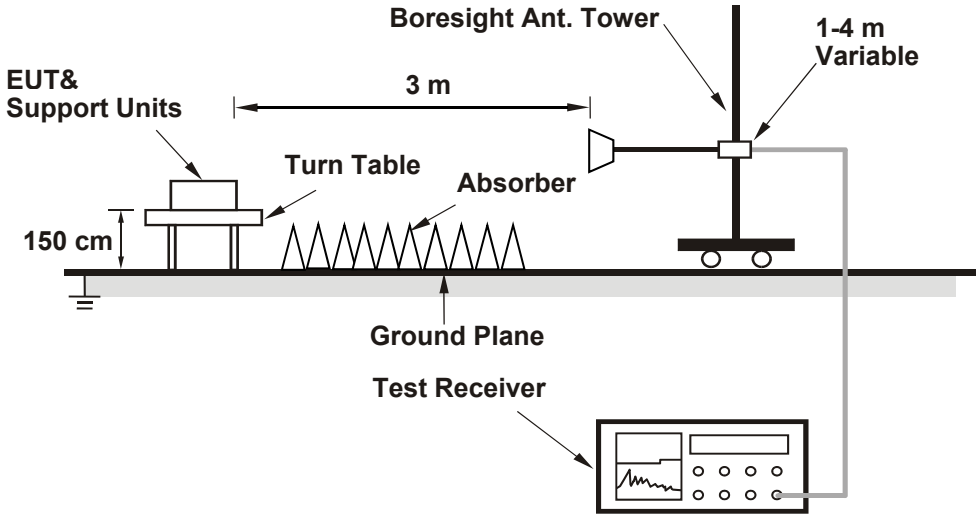
e. The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1 GHz.

Notes:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120 kHz for Quasi-peak detection (QP) at frequency below 1 GHz.
2. All modes of operation were investigated and the worst-case emissions are reported.

6.8 Unwanted Emissions above 1 GHz

6.8.1 Test Setup



For the actual test configuration, please refer to the attached file (Test Setup Photo).

6.8.2 Test Procedure

a. The EUT was placed on the top of a rotating table 1.5 meters above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.

b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.

c. The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.

e. The test-receiver system was set to peak and average detects function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz. If the peak reading value also meets average limit, measurement with the average detector is unnecessary.

Notes:

1. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) and Average detection (AV) at frequency above 1 GHz.
2. For fundamental and harmonic signal measurement, the resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is ≥ 1/T (Duty cycle < 98%) or 10 Hz (Duty cycle ≥ 98%) for Average detection (AV) at frequency above 1 GHz.
3. All modes of operation were investigated and the worst-case emissions are reported.

7 Test Results of Test Item

7.1 26 dB Bandwidth

Input Power:	120 Vac, 60 Hz	Environmental Conditions:	26°C, 63% RH	Tested By:	Dolly Chung

802.11a CDD

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
52	5260	18.37	18.47	18.26	18.28
60	5300	18.97	20.80	22.19	21.57
64	5320	20.35	19.98	21.74	21.31
100	5500	19.97	19.67	20.12	22.18
116	5580	18.32	18.41	18.37	18.45
140	5700	18.94	19.20	21.27	20.98
144 (U-NII-2C)	5720	14.15	14.19	14.14	14.22
144 (U-NII-3)	5720	4.16	4.16	4.05	4.13

Determined Output Power Limit					
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)		
52	5260	18.26	23.61	<	24
60	5300	18.97	23.78	<	24
64	5320	19.98	24	=	24
100	5500	19.67	23.93	<	24
116	5580	18.32	23.62	<	24
140	5700	18.94	23.77	<	24
144 (U-NII-2C)	5720	14.14	22.5	<	24

Note: For U-NII-2A, U-NII-2C Band output power limitation is determined based on 26dBc bandwidth.

802.11be (EHT20) CDD

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
52	5260	19.83	19.84	19.89	19.79
60	5300	21.62	22.40	19.97	21.08
64	5320	19.92	19.89	20.60	19.91
100	5500	24.62	23.35	19.87	21.76
116	5580	19.90	19.89	19.95	19.86
140	5700	19.93	20.09	19.82	19.74
144 (U-NII-2C)	5720	14.97	14.97	14.96	14.93
144 (U-NII-3)	5720	4.86	4.90	4.91	4.86

Determined Output Power Limit					
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)		
52	5260	19.79	23.96	<	24
60	5300	19.97	24	=	24
64	5320	19.89	23.98	<	24
100	5500	19.87	23.98	<	24
116	5580	19.86	23.97	<	24
140	5700	19.74	23.95	<	24
144 (U-NII-2C)	5720	14.93	22.74	<	24

Note: For U-NII-2A, U-NII-2C Band output power limitation is determined based on 26dBc bandwidth.

802.11be (EHT40) CDD

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
54	5270	39.27	39.24	39.24	39.34
62	5310	39.22	39.49	39.47	39.81
102	5510	39.50	39.23	39.33	39.43
110	5550	39.38	39.32	39.28	39.39
134	5670	40.33	39.39	39.35	39.32
142 (U-NII-2C)	5710	34.73	34.71	34.69	34.71
142 (U-NII-3)	5710	4.63	4.67	4.67	4.67

Determined Output Power Limit					
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)		
54	5270	39.24	26.93	>	24
62	5310	39.22	26.93	>	24
102	5510	39.23	26.93	>	24
110	5550	39.28	26.94	>	24
134	5670	39.32	26.94	>	24
142 (U-NII-2C)	5710	34.69	26.4	>	24

Note: For U-NII-2A, U-NII-2C Band output power limitation is determined based on 26dBc bandwidth.

802.11be (EHT80) CDD

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
58	5290	79.89	79.79	79.99	83.31
106	5530	79.88	79.86	80.07	79.86
122	5610	79.81	79.79	79.83	79.91
138 (U-NII-2C)	5690	74.99	74.92	74.96	74.95
138 (U-NII-3)	5690	4.88	4.90	4.84	4.80

Determined Output Power Limit					
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)		
58	5290	79.79	30.01	>	24
106	5530	79.86	30.02	>	24
122	5610	79.79	30.01	>	24
138 (U-NII-2C)	5690	74.92	29.74	>	24

Note: For U-NII-2A, U-NII-2C Band output power limitation is determined based on 26dBc bandwidth.

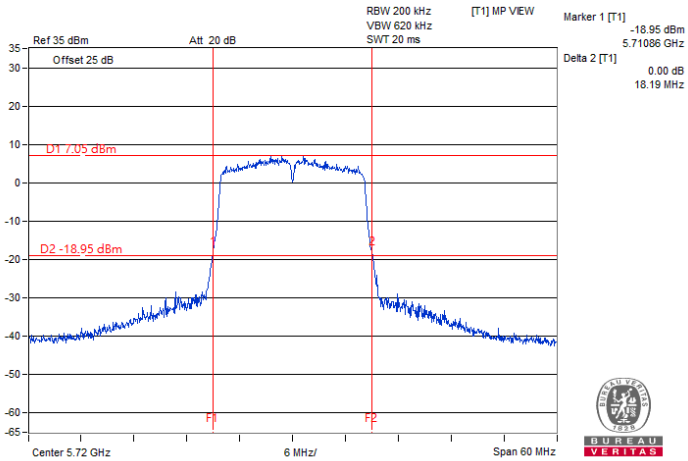
802.11be (EHT160) CDD

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
50 (U-NII-1)	5250	81.06	80.87	81.27	81.01
50 (U-NII-2A)	5250	80.98	80.77	82.11	80.91
114	5570	162.78	162.55	162.08	162.13

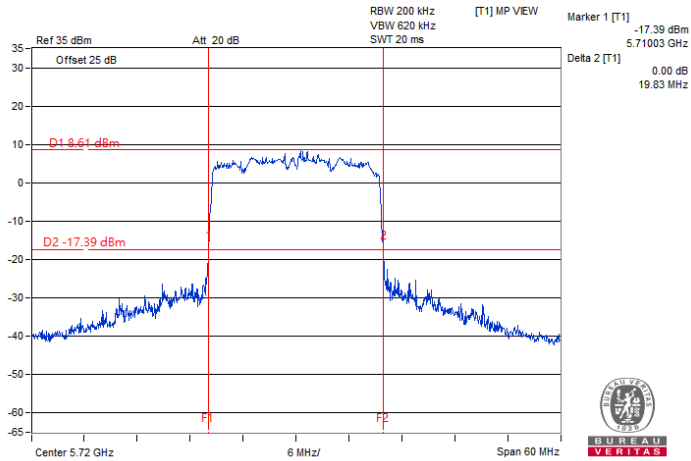
Determined Output Power Limit					
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)		
50 (U-NII-2A)	5250	80.77	30.07	>	24
114	5570	162.08	33.09	>	24

Note: For U-NII-2A, U-NII-2C Band output power limitation is determined based on 26dBc bandwidth.

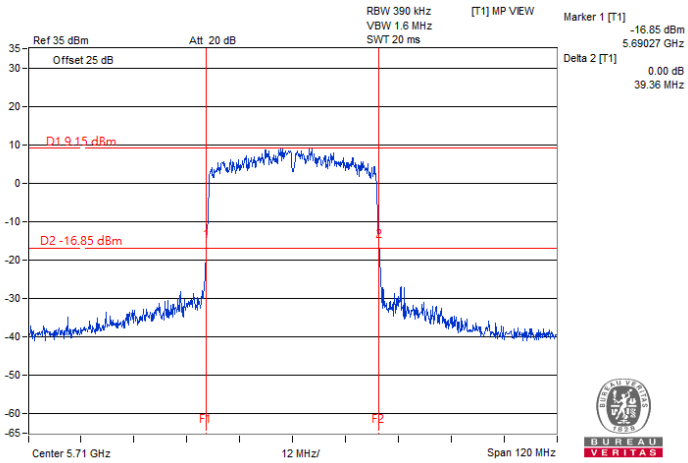
Spectrum Plot of Minimum Value



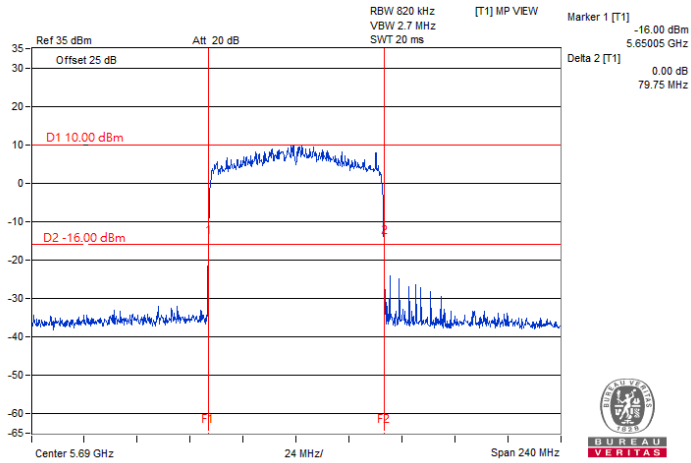
802.11a CDD / Chain 2 : CH 144 (U-NII-3)



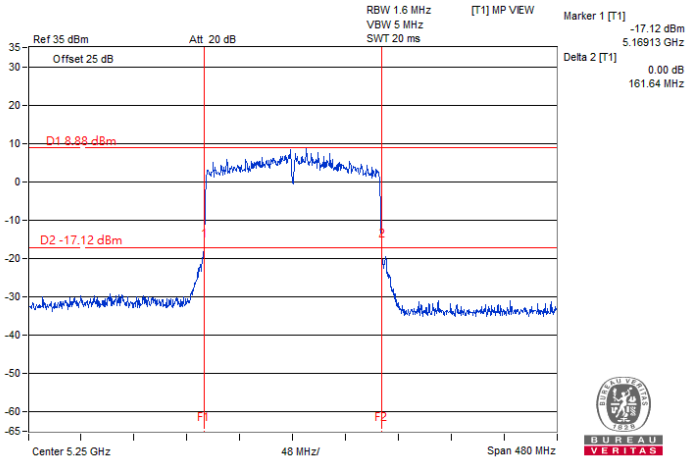
802.11be (EHT20) CDD / Chain 0 : CH 144 (U-NII-3)



802.11be (EHT40) CDD / Chain 0 : CH 142 (U-NII-3)



802.11be (EHT80) CDD / Chain 3 : CH 138 (U-NII-3)



802.11be (EHT160) CDD / Chain 1 : CH 50 (U-NII-2A)

Notes:

1. For U-NII-2C straddle channel = 5725 MHz - Marker 1
2. For U-NII-3 straddle channel = Marker 1 + Delta 2 - 5725 MHz
3. For U-NII-1 straddle channel = 5250 MHz - Marker 1
4. For U-NII-2A straddle channel = Marker 1 + Delta 2 - 5250 MHz

7.2 RF Output Power

Input Power:	120 Vac, 60 Hz	Environmental Conditions:	26°C, 63% RH	Tested By:	Dolly Chung

802.11a CDD

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
36	5180	23.28	23.32	23.31	23.28	854.7	29.32	30	Pass
40	5200	23.65	23.34	23.10	23.25	863.037	29.36	30	Pass
48	5240	23.53	23.73	22.69	22.97	845.405	29.27	30	Pass
52	5260	17.54	17.83	17.38	17.55	229.015	23.60	23.61	Pass
60	5300	17.38	17.97	17.22	17.33	224.161	23.51	23.78	Pass
64	5320	17.46	17.98	17.16	17.26	223.735	23.50	24	Pass
100	5500	17.81	17.57	17.48	17.36	227.969	23.58	23.93	Pass
116	5580	17.72	17.39	17.64	17.52	228.554	23.59	23.62	Pass
140	5700	17.73	17.48	17.59	17.16	224.68	23.52	23.77	Pass
*144 (U-NII-2C)	5720	16.59	16.54	16.43	16.22	176.519	22.47	22.5	Pass
*144 (U-NII-3)	5720	9.96	9.68	8.80	10.00	36.784	15.66	30	Pass
149	5745	24.08	23.62	23.53	23.98	961.461	29.83	30	Pass
157	5785	24.06	23.48	23.90	23.81	963.434	29.84	30	Pass
165	5825	24.25	24.20	23.52	23.33	969.283	29.86	30	Pass

Notes:

1. * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.
2. Directional gain is the maximum gain of antennas.
3. For U-NII-1, the maximum gain is 3.8 dBi < 6 dBi, so the output power limit shall not be reduced.
4. For U-NII-2A, the maximum gain is 3.5 dBi < 6 dBi, so the output power limit shall not be reduced.
5. For U-NII-2C, the maximum gain is 3.4 dBi < 6 dBi, so the output power limit shall not be reduced.
6. For U-NII-3, the maximum gain is 3.5 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11ac (VHT20) CDD

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
36	5180	20.42	20.42	20.00	20.04	421.233	26.25	30	Pass
40	5200	23.69	23.54	23.32	22.98	873.22	29.41	30	Pass
48	5240	24.05	23.89	23.15	22.86	898.738	29.54	30	Pass
52	5260	17.74	17.81	17.51	17.64	234.264	23.70	23.96	Pass
60	5300	17.46	17.75	17.35	17.36	224.06	23.50	24	Pass
64	5320	17.56	17.80	17.33	17.28	224.804	23.52	23.98	Pass
100	5500	17.90	17.40	17.33	17.29	224.269	23.51	23.98	Pass
116	5580	17.78	18.22	17.83	17.65	245.237	23.90	23.97	Pass
140	5700	17.57	17.36	17.68	17.37	224.788	23.52	23.95	Pass
*144 (U-NII-2C)	5720	16.71	16.78	16.59	16.48	184.591	22.66	22.74	Pass
*144 (U-NII-3)	5720	10.61	11.18	10.23	10.81	47.224	16.74	30	Pass
149	5745	23.73	23.42	23.23	23.62	896.356	29.52	30	Pass
157	5785	23.74	23.70	23.25	23.40	901.14	29.55	30	Pass
165	5825	23.97	23.64	23.15	23.09	890.908	29.50	30	Pass

Notes:

1. * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.
2. Directional gain is the maximum gain of antennas.
3. For U-NII-1, the maximum gain is 3.8 dBi < 6 dBi, so the output power limit shall not be reduced.
4. For U-NII-2A, the maximum gain is 3.5 dBi < 6 dBi, so the output power limit shall not be reduced.
5. For U-NII-2C, the maximum gain is 3.4 dBi < 6 dBi, so the output power limit shall not be reduced.
6. For U-NII-3, the maximum gain is 3.5 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11ac (VHT40) CDD

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
38	5190	19.22	19.27	18.94	19.00	325.864	25.13	30	Pass
46	5230	23.13	23.13	22.34	22.29	752.008	28.76	30	Pass
54	5270	17.70	18.01	17.67	17.73	239.897	23.80	24	Pass
62	5310	17.50	18.14	17.45	17.66	235.332	23.72	24	Pass
102	5510	17.97	17.63	17.64	17.53	235.305	23.72	24	Pass
110	5550	17.90	17.69	17.60	17.71	236.973	23.75	24	Pass
134	5670	17.86	18.10	17.65	17.52	240.364	23.81	24	Pass
*142 (U-NII-2C)	5710	17.40	17.19	17.29	17.24	213.86	23.30	24	Pass
*142 (U-NII-3)	5710	5.75	5.56	5.56	5.83	14.782	11.70	30	Pass
151	5755	24.14	23.46	23.68	23.70	949.006	29.77	30	Pass
159	5795	24.00	23.72	23.78	23.96	974.36	29.89	30	Pass

Notes:

1. * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.
2. Directional gain is the maximum gain of antennas.
3. For U-NII-1, the maximum gain is 3.8 dBi < 6 dBi, so the output power limit shall not be reduced.
4. For U-NII-2A, the maximum gain is 3.5 dBi < 6 dBi, so the output power limit shall not be reduced.
5. For U-NII-2C, the maximum gain is 3.4 dBi < 6 dBi, so the output power limit shall not be reduced.
6. For U-NII-3, the maximum gain is 3.5 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11ac (VHT80) CDD

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
42	5210	16.47	16.42	15.95	16.33	170.523	22.32	30	Pass
58	5290	17.32	18.00	17.39	17.61	229.551	23.61	24	Pass
106	5530	17.34	17.14	17.20	17.14	210.202	23.23	24	Pass
122	5610	17.21	17.80	17.46	17.42	223.784	23.50	24	Pass
*138 (U-NII-2C)	5690	17.62	17.81	17.63	17.32	230.098	23.62	24	Pass
*138 (U-NII-3)	5690	2.56	2.18	2.68	2.26	6.991	8.45	30	Pass
155	5775	22.76	22.40	22.63	22.55	725.698	28.61	30	Pass

Notes:

1. * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.
2. Directional gain is the maximum gain of antennas.
3. For U-NII-1, the maximum gain is 3.8 dBi < 6 dBi, so the output power limit shall not be reduced.
4. For U-NII-2A, the maximum gain is 3.5 dBi < 6 dBi, so the output power limit shall not be reduced.
5. For U-NII-2C, the maximum gain is 3.4 dBi < 6 dBi, so the output power limit shall not be reduced.
6. For U-NII-3, the maximum gain is 3.5 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11ac (VHT160) CDD

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
*50 (U-NII-1)	5250	12.67	12.60	12.21	12.62	71.605	18.55	30	Pass
*50 (U-NII-2A)	5250	12.63	12.47	11.75	12.40	68.324	18.35	24	Pass
114	5570	17.84	17.45	17.27	17.49	225.842	23.54	24	Pass

Notes:

1. * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.
2. Directional gain is the maximum gain of antennas.
3. For U-NII-1, the maximum gain is 3.8 dBi < 6 dBi, so the output power limit shall not be reduced.
4. For U-NII-2A, the maximum gain is 3.5 dBi < 6 dBi, so the output power limit shall not be reduced.
5. For U-NII-2C, the maximum gain is 3.4 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11be (EHT20) CDD

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
36	5180	20.53	20.56	20.17	20.17	434.726	26.38	30	Pass
40	5200	23.84	23.67	23.46	23.16	903.746	29.56	30	Pass
48	5240	24.22	24.00	23.34	23.11	935.848	29.71	30	Pass
52	5260	17.86	18.03	17.62	17.92	244.381	23.88	23.96	Pass
60	5300	17.60	17.82	17.36	17.56	229.545	23.61	24	Pass
64	5320	17.53	17.78	17.40	17.46	227.276	23.57	23.98	Pass
100	5500	17.95	17.47	17.46	17.39	228.767	23.59	23.98	Pass
116	5580	17.76	18.30	17.98	17.63	248.061	23.95	23.97	Pass
140	5700	17.73	17.55	17.73	17.43	230.805	23.63	23.95	Pass
*144 (U-NII-2C)	5720	16.81	16.92	16.54	16.46	186.518	22.71	22.74	Pass
*144 (U-NII-3)	5720	10.96	11.11	10.59	10.90	49.144	16.91	30	Pass
149	5745	23.88	23.58	23.23	23.70	917.178	29.62	30	Pass
157	5785	24.04	23.79	23.27	23.53	930.593	29.69	30	Pass
165	5825	24.17	23.83	22.98	23.10	905.546	29.57	30	Pass

Notes:

1. * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.
2. Directional gain is the maximum gain of antennas.
3. For U-NII-1, the maximum gain is 3.8 dBi < 6 dBi, so the output power limit shall not be reduced.
4. For U-NII-2A, the maximum gain is 3.5 dBi < 6 dBi, so the output power limit shall not be reduced.
5. For U-NII-2C, the maximum gain is 3.4 dBi < 6 dBi, so the output power limit shall not be reduced.
6. For U-NII-3, the maximum gain is 3.5 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11be (EHT40) CDD

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
38	5190	19.41	19.45	19.05	19.13	337.601	25.28	30	Pass
46	5230	23.27	23.23	22.52	22.48	778.362	28.91	30	Pass
54	5270	17.84	18.20	17.83	17.88	248.933	23.96	24	Pass
62	5310	17.70	18.26	17.60	17.77	243.258	23.86	24	Pass
102	5510	18.10	17.83	17.80	17.72	244.651	23.89	24	Pass
110	5550	18.02	17.85	17.73	17.85	244.587	23.88	24	Pass
134	5670	18.03	18.16	17.78	17.62	246.785	23.92	24	Pass
*142 (U-NII-2C)	5710	17.52	17.28	17.36	17.40	219.354	23.41	24	Pass
*142 (U-NII-3)	5710	5.93	5.94	5.80	5.83	15.474	11.90	30	Pass
151	5755	24.30	23.60	23.79	23.80	977.455	29.90	30	Pass
159	5795	24.20	23.82	23.90	23.96	998.374	29.99	30	Pass

Notes:

1. * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.
2. Directional gain is the maximum gain of antennas.
3. For U-NII-1, the maximum gain is 3.8 dBi < 6 dBi, so the output power limit shall not be reduced.
4. For U-NII-2A, the maximum gain is 3.5 dBi < 6 dBi, so the output power limit shall not be reduced.
5. For U-NII-2C, the maximum gain is 3.4 dBi < 6 dBi, so the output power limit shall not be reduced.
6. For U-NII-3, the maximum gain is 3.5 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11be (EHT80) CDD

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
42	5210	16.58	16.56	16.06	16.51	175.924	22.45	30	Pass
58	5290	17.43	18.12	17.56	17.73	236.507	23.74	24	Pass
106	5530	17.53	17.34	17.36	17.27	218.608	23.40	24	Pass
122	5610	17.38	17.83	17.42	17.48	226.559	23.55	24	Pass
*138 (U-NII-2C)	5690	17.88	18.02	17.76	17.19	236.827	23.74	24	Pass
*138 (U-NII-3)	5690	2.82	2.68	2.96	2.66	7.59	8.80	30	Pass
155	5775	22.87	22.53	22.82	22.73	751.628	28.76	30	Pass

Notes:

1. * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.
2. Directional gain is the maximum gain of antennas.
3. For U-NII-1, the maximum gain is 3.8 dBi < 6 dBi, so the output power limit shall not be reduced.
4. For U-NII-2A, the maximum gain is 3.5 dBi < 6 dBi, so the output power limit shall not be reduced.
5. For U-NII-2C, the maximum gain is 3.4 dBi < 6 dBi, so the output power limit shall not be reduced.
6. For U-NII-3, the maximum gain is 3.5 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11be (EHT160) CDD

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
*50 (U-NII-1)	5250	13.24	13.05	12.59	12.63	77.748	18.91	30	Pass
*50 (U-NII-2A)	5250	13.09	12.84	11.78	12.97	74.483	18.72	24	Pass
114	5570	17.92	17.65	17.30	17.58	231.137	23.64	24	Pass

Notes:

1. * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.
2. Directional gain is the maximum gain of antennas.
3. For U-NII-1, the maximum gain is 3.8 dBi < 6 dBi, so the output power limit shall not be reduced.
4. For U-NII-2A, the maximum gain is 3.5 dBi < 6 dBi, so the output power limit shall not be reduced.
5. For U-NII-2C, the maximum gain is 3.4 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11ac (VHT20) Beamforming

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
36	5180	20.40	20.41	19.98	20.01	419.319	26.23	30	Pass
40	5200	23.68	23.51	23.31	22.95	869.265	29.39	30	Pass
48	5240	23.95	23.70	23.02	22.74	871.115	29.40	30	Pass
52	5260	17.54	17.66	17.41	17.47	226.027	23.54	23.94	Pass
60	5300	17.33	17.55	17.22	17.22	216.407	23.35	23.98	Pass
64	5320	17.43	17.62	17.14	17.11	216.31	23.35	23.96	Pass
100	5500	17.71	17.26	17.20	17.14	216.472	23.35	23.98	Pass
116	5580	17.76	18.05	17.90	17.72	244.346	23.88	23.97	Pass
140	5700	17.41	17.17	17.55	17.19	216.446	23.35	23.95	Pass
*144 (U-NII-2C)	5720	16.70	16.68	16.60	16.42	182.894	22.62	22.74	Pass
*144 (U-NII-3)	5720	10.65	11.12	10.25	10.76	47.061	16.73	30	Pass
149	5745	23.59	23.24	23.04	23.42	860.581	29.35	30	Pass
157	5785	23.58	23.60	23.12	23.24	873.1	29.41	30	Pass
165	5825	23.82	23.44	23.00	22.91	856.751	29.33	30	Pass

Notes:

1. * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.
2. Directional gain is the measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
3. For U-NII-1, the directional gain is 5.8 dBi < 6 dBi, so the output power limit shall not be reduced.
4. For U-NII-2A, the directional gain is 6.02 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(6.02-6)].
5. For U-NII-2C, the directional gain is 5.57 dBi < 6 dBi, so the output power limit shall not be reduced.
6. For U-NII-3, the directional gain is 5.67 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11ac (VHT40) Beamforming

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
38	5190	19.21	19.25	18.91	18.99	324.561	25.11	30	Pass
46	5230	23.09	23.11	22.31	22.28	747.609	28.74	30	Pass
54	5270	17.54	17.86	17.51	17.57	231.36	23.64	23.98	Pass
62	5310	17.31	17.97	17.31	17.49	226.42	23.55	23.98	Pass
102	5510	17.82	17.52	17.53	17.36	228.102	23.58	24	Pass
110	5550	17.73	17.56	17.41	17.57	228.538	23.59	24	Pass
134	5670	17.68	17.95	17.53	17.32	231.562	23.65	24	Pass
*142 (U-NII-2C)	5710	17.38	17.20	17.24	17.18	212.388	23.27	24	Pass
*142 (U-NII-3)	5710	5.71	5.60	5.46	5.80	14.672	11.66	30	Pass
151	5755	24.00	23.36	23.58	23.53	921.417	29.64	30	Pass
159	5795	23.90	23.56	23.63	23.76	940.816	29.74	30	Pass

Notes:

1. * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.
2. Directional gain is the measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
3. For U-NII-1, the directional gain is 5.8 dBi < 6 dBi, so the output power limit shall not be reduced.
4. For U-NII-2A, the directional gain is 6.02 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(6.02-6)].
5. For U-NII-2C, the directional gain is 5.57 dBi < 6 dBi, so the output power limit shall not be reduced.
6. For U-NII-3, the directional gain is 5.67 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11ac (VHT80) Beamforming

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
42	5210	16.44	16.39	15.94	16.32	169.726	22.30	30	Pass
58	5290	17.15	17.85	17.36	17.52	223.778	23.50	23.98	Pass
106	5530	17.32	17.11	17.16	17.12	208.878	23.20	24	Pass
122	5610	17.28	17.61	17.42	17.35	220.666	23.44	24	Pass
*138 (U-NII-2C)	5690	17.66	17.72	17.90	17.29	232.74	23.67	24	Pass
*138 (U-NII-3)	5690	2.54	2.20	2.61	2.33	6.988	8.44	30	Pass
155	5775	22.75	22.38	22.61	22.52	722.385	28.59	30	Pass

Notes:

1. * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.
2. Directional gain is the measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
3. For U-NII-1, the directional gain is 5.8 dBi < 6 dBi, so the output power limit shall not be reduced.
4. For U-NII-2A, the directional gain is 6.02 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(6.02-6)].
5. For U-NII-2C, the directional gain is 5.57 dBi < 6 dBi, so the output power limit shall not be reduced.
6. For U-NII-3, the directional gain is 5.67 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11ac (VHT160) Beamforming

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
*50 (U-NII-1)	5250	12.64	12.58	12.30	12.56	71.491	18.54	30	Pass
*50 (U-NII-2A)	5250	12.59	12.44	11.80	12.30	67.812	18.31	23.98	Pass
114	5570	17.71	17.27	17.19	17.37	219.289	23.41	24	Pass

Notes:

1. * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.
2. Directional gain is the measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
3. For U-NII-1, the directional gain is 5.8 dBi < 6 dBi, so the output power limit shall not be reduced.
4. For U-NII-2A, the directional gain is 6.02 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(6.02-6)].
5. For U-NII-2C, the directional gain is 5.57 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11be (EHT20) Beamforming

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
36	5180	20.51	20.55	20.15	20.16	433.229	26.37	30	Pass
40	5200	23.81	23.64	23.42	23.14	897.492	29.53	30	Pass
48	5240	24.11	23.80	23.21	22.96	904.624	29.56	30	Pass
52	5260	17.66	17.88	17.45	17.81	235.706	23.72	23.94	Pass
60	5300	17.44	17.64	17.35	17.50	224.098	23.50	23.98	Pass
64	5320	17.46	17.68	17.32	17.49	224.388	23.51	23.96	Pass
100	5500	17.84	17.35	17.42	17.35	224.671	23.52	23.98	Pass
116	5580	17.65	18.24	18.10	17.50	245.691	23.90	23.97	Pass
140	5700	17.58	17.51	17.63	17.34	225.786	23.54	23.95	Pass
*144 (U-NII-2C)	5720	16.74	16.85	16.60	16.52	186.207	22.70	22.74	Pass
*144 (U-NII-3)	5720	10.92	11.05	10.64	10.82	48.76	16.88	30	Pass
149	5745	23.69	23.38	23.22	23.67	894.358	29.52	30	Pass
157	5785	23.87	23.60	23.18	23.40	899.614	29.54	30	Pass
165	5825	24.07	23.66	23.09	23.10	895.422	29.52	30	Pass

Notes:

1. * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.
2. Directional gain is the measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
3. For U-NII-1, the directional gain is 5.8 dBi < 6 dBi, so the output power limit shall not be reduced.
4. For U-NII-2A, the directional gain is 6.02 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(6.02-6)].
5. For U-NII-2C, the directional gain is 5.57 dBi < 6 dBi, so the output power limit shall not be reduced.
6. For U-NII-3, the directional gain is 5.67 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11be (EHT40) Beamforming

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
38	5190	19.39	19.42	19.02	19.11	335.664	25.26	30	Pass
46	5230	23.24	23.21	22.49	22.45	773.485	28.88	30	Pass
54	5270	17.65	18.07	17.65	17.71	239.562	23.79	23.98	Pass
62	5310	17.51	18.14	17.44	17.60	234.533	23.70	23.98	Pass
102	5510	17.94	17.71	17.61	17.57	236.075	23.73	24	Pass
110	5550	17.85	17.66	17.58	17.71	235.598	23.72	24	Pass
134	5670	17.92	17.99	17.67	17.46	239.092	23.79	24	Pass
*142 (U-NII-2C)	5710	17.48	17.30	17.26	17.45	218.48	23.39	24	Pass
*142 (U-NII-3)	5710	5.93	5.78	5.90	5.66	15.274	11.84	30	Pass
151	5755	24.17	23.47	23.68	23.61	946.508	29.76	30	Pass
159	5795	24.08	23.72	23.75	23.85	971.162	29.87	30	Pass

Notes:

1. * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.
2. Directional gain is the measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
3. For U-NII-1, the directional gain is 5.8 dBi < 6 dBi, so the output power limit shall not be reduced.
4. For U-NII-2A, the directional gain is 6.02 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(6.02-6)].
5. For U-NII-2C, the directional gain is 5.57 dBi < 6 dBi, so the output power limit shall not be reduced.
6. For U-NII-3, the directional gain is 5.67 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11be (EHT80) Beamforming

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
42	5210	16.55	16.54	16.02	16.48	174.725	22.42	30	Pass
58	5290	17.27	17.95	17.39	17.62	228.344	23.59	23.98	Pass
106	5530	17.51	17.32	17.33	17.25	217.479	23.37	24	Pass
122	5610	17.29	17.90	17.34	17.44	224.902	23.52	24	Pass
*138 (U-NII-2C)	5690	17.80	17.84	17.72	17.33	234.301	23.70	24	Pass
*138 (U-NII-3)	5690	2.77	2.51	2.79	2.54	7.371	8.68	30	Pass
155	5775	22.86	22.50	22.81	22.71	748.648	28.74	30	Pass

Notes:

1. * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.
2. Directional gain is the measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
3. For U-NII-1, the directional gain is 5.8 dBi < 6 dBi, so the output power limit shall not be reduced.
4. For U-NII-2A, the directional gain is 6.02 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(6.02-6)].
5. For U-NII-2C, the directional gain is 5.57 dBi < 6 dBi, so the output power limit shall not be reduced.
6. For U-NII-3, the directional gain is 5.67 dBi < 6 dBi, so the output power limit shall not be reduced.

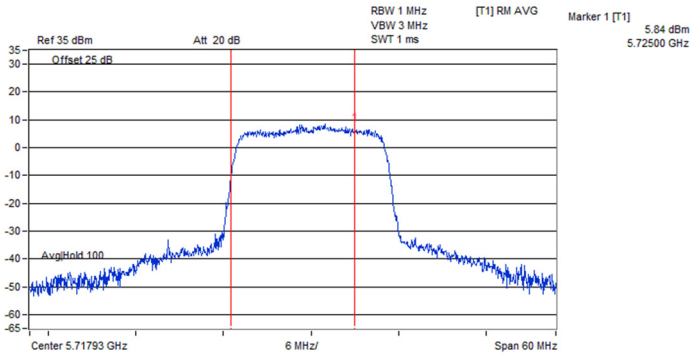
802.11be (EHT160) Beamforming

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
*50 (U-NII-1)	5250	13.13	13.02	12.55	12.70	77.213	18.88	30	Pass
*50 (U-NII-2A)	5250	13.10	12.74	11.80	12.80	73.401	18.66	23.98	Pass
114	5570	17.77	17.61	17.20	17.42	225.206	23.53	24	Pass

Notes:

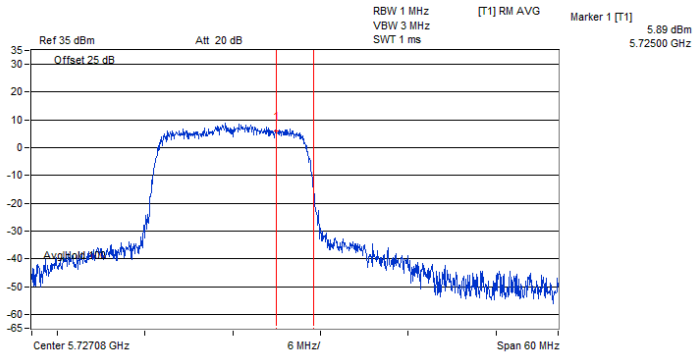
1. * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.
2. Directional gain is the measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
3. For U-NII-1, the directional gain is 5.8 dBi < 6 dBi, so the output power limit shall not be reduced.
4. For U-NII-2A, the directional gain is 6.02 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(6.02-6)].
5. For U-NII-2C, the directional gain is 5.57 dBi < 6 dBi, so the output power limit shall not be reduced.

Spectrum Plot for channel straddling



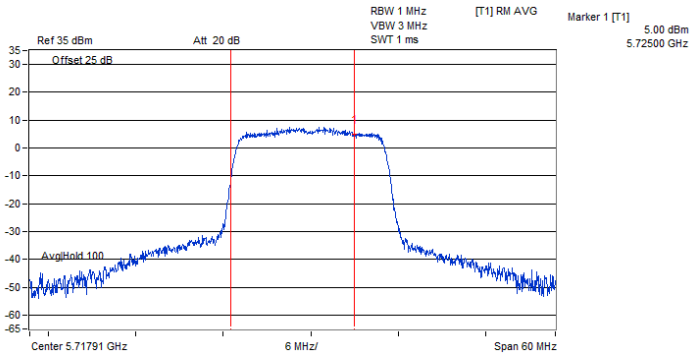
TX Channel Bandwidth 14.15 MHz Power 16.59 dBm

802.11a CDD / Chain 0 : CH 144 (U-NII-2C)



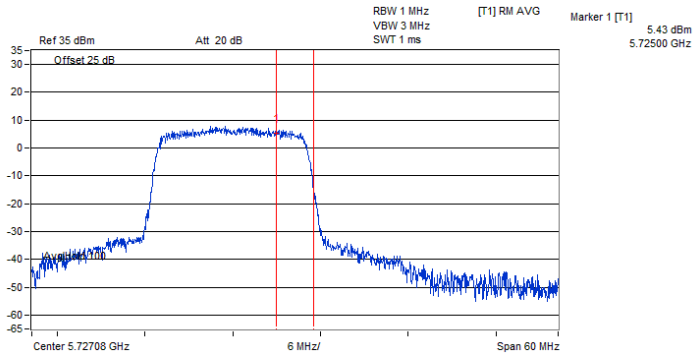
TX Channel Bandwidth 4.16 MHz Power 9.96 dBm

802.11a CDD / Chain 0 : CH 144 (U-NII-3)



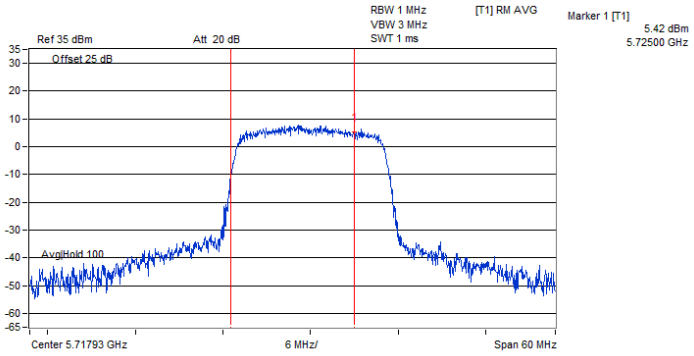
TX Channel Bandwidth 14.19 MHz Power 16.54 dBm

802.11a CDD / Chain 1 : CH 144 (U-NII-2C)



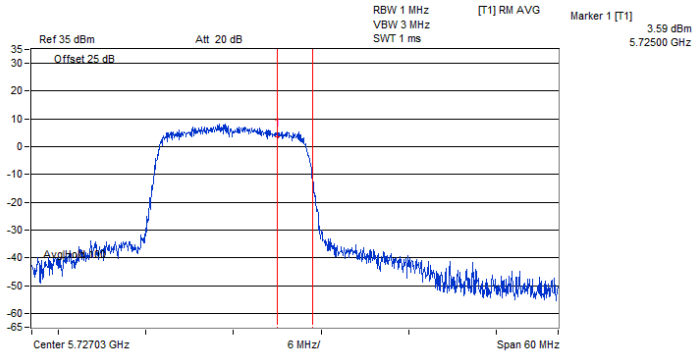
TX Channel Bandwidth 4.16 MHz Power 9.68 dBm

802.11a CDD / Chain 1 : CH 144 (U-NII-3)



TX Channel Bandwidth 14.14 MHz Power 16.43 dBm

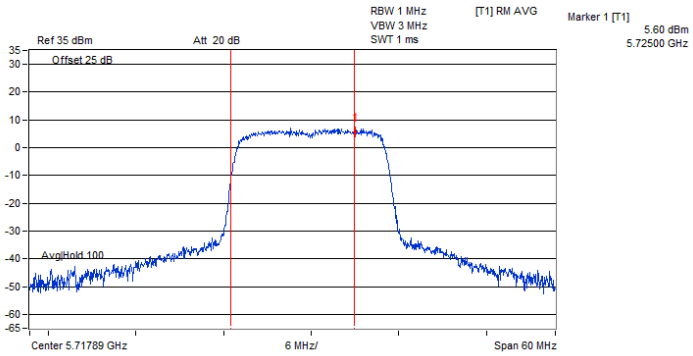
802.11a CDD / Chain 2 : CH 144 (U-NII-2C)



TX Channel Bandwidth 4.05 MHz Power 8.8 dBm

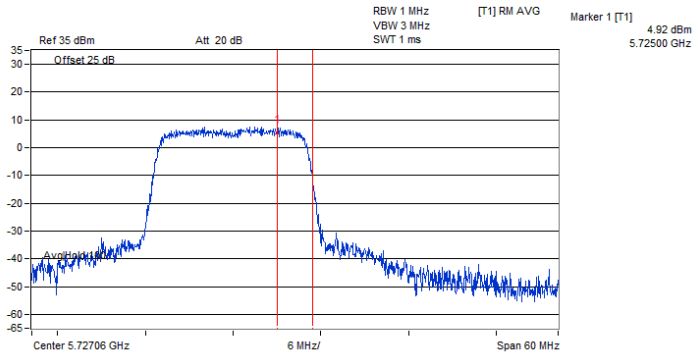
802.11a CDD / Chain 2 : CH 144 (U-NII-3)

Spectrum Plot for channel straddling



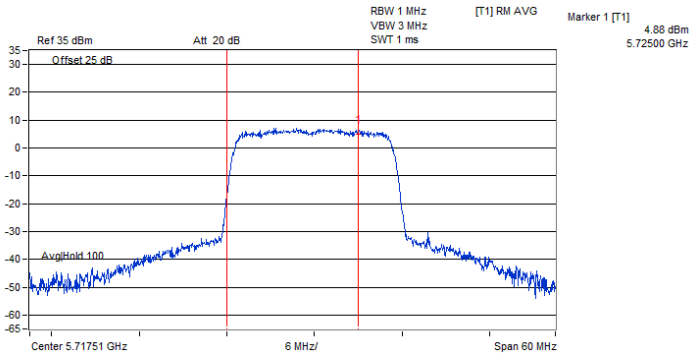
TX Channel Bandwidth 14.22 MHz Power 16.22 dBm

802.11a CDD / Chain 3 : CH 144 (U-NII-2C)



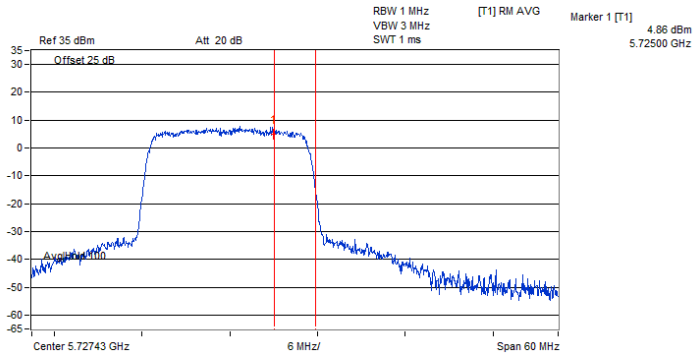
TX Channel Bandwidth 4.13 MHz Power 10 dBm

802.11a CDD / Chain 3 : CH 144 (U-NII-3)



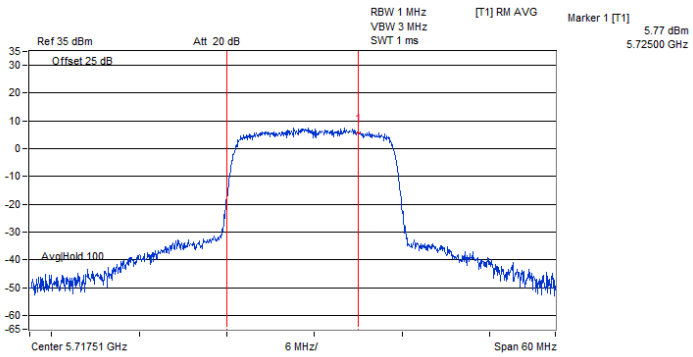
TX Channel Bandwidth 14.97 MHz Power 16.71 dBm

802.11ac (VHT20) CDD / Chain 0 : CH 144 (U-NII-2C)



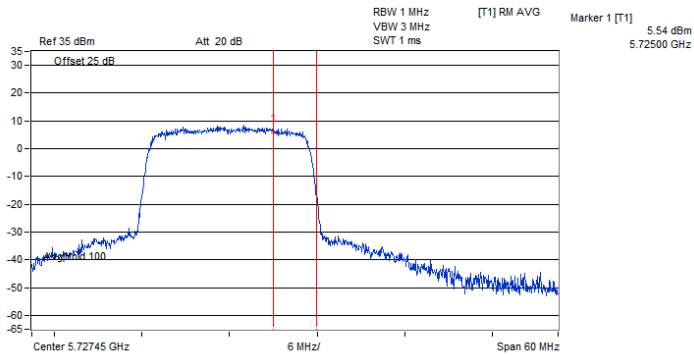
TX Channel Bandwidth 4.86 MHz Power 10.61 dBm

802.11ac (VHT20) CDD / Chain 0 : CH 144 (U-NII-3)



TX Channel Bandwidth 14.97 MHz Power 16.78 dBm

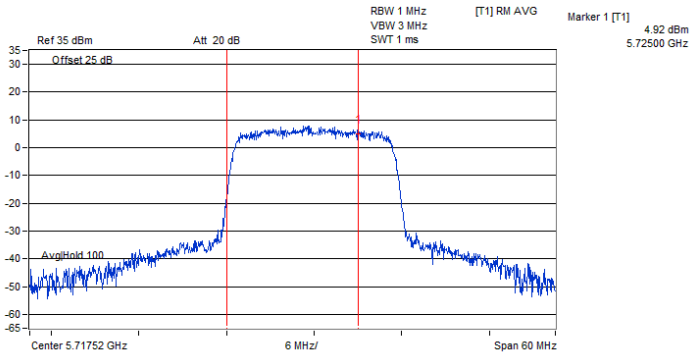
802.11ac (VHT20) CDD / Chain 1 : CH 144 (U-NII-2C)



TX Channel Bandwidth 4.9 MHz Power 11.18 dBm

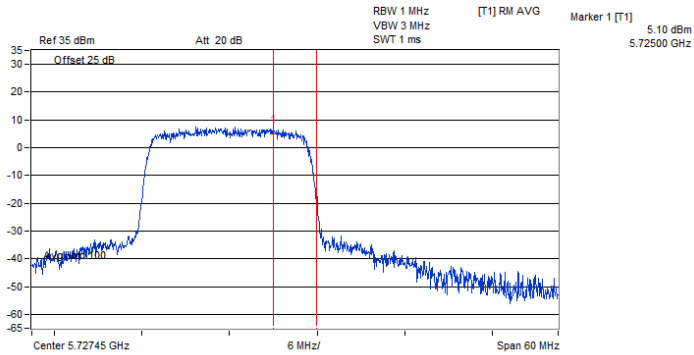
802.11ac (VHT20) CDD / Chain 1 : CH 144 (U-NII-3)

Spectrum Plot for channel straddling



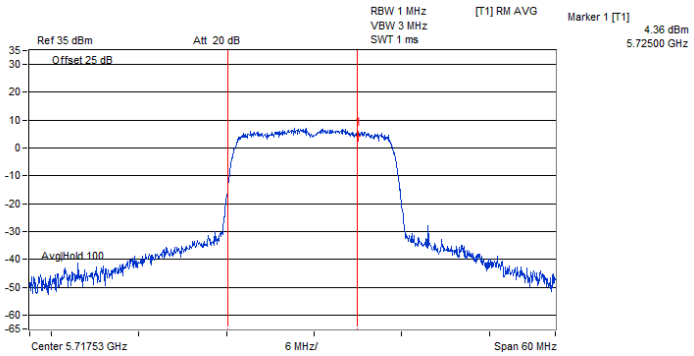
TX Channel Bandwidth 14.96 MHz Power 16.59 dBm

802.11ac (VHT20) CDD / Chain 2 : CH 144 (U-NII-2C)



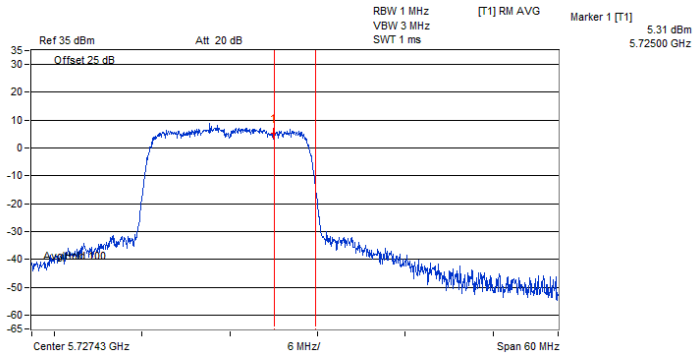
TX Channel Bandwidth 4.91 MHz Power 10.23 dBm

802.11ac (VHT20) CDD / Chain 2 : CH 144 (U-NII-3)



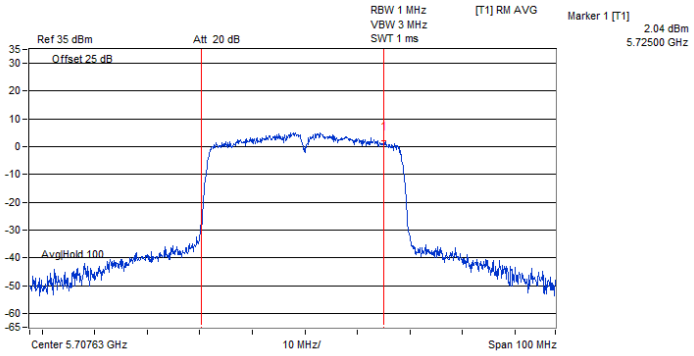
TX Channel Bandwidth 14.93 MHz Power 16.48 dBm

802.11ac (VHT20) CDD / Chain 3 : CH 144 (U-NII-2C)



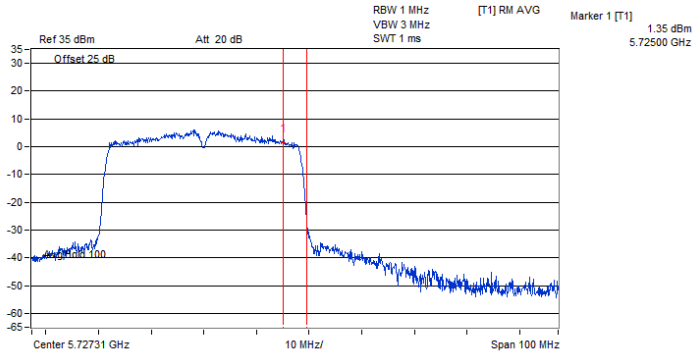
TX Channel Bandwidth 4.86 MHz Power 10.81 dBm

802.11ac (VHT20) CDD / Chain 3 : CH 144 (U-NII-3)



TX Channel Bandwidth 34.73 MHz Power 17.4 dBm

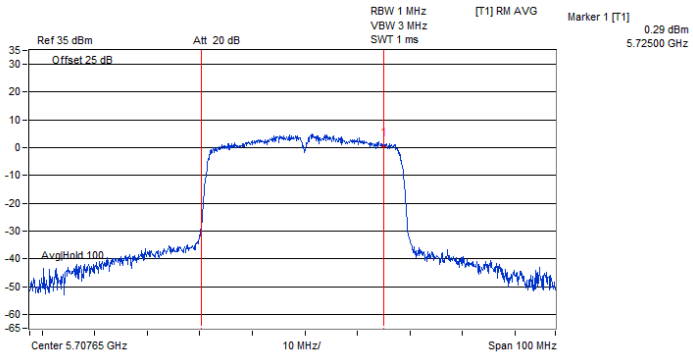
802.11ac (VHT40) CDD / Chain 0 : CH 142 (U-NII-2C)



TX Channel Bandwidth 4.63 MHz Power 5.75 dBm

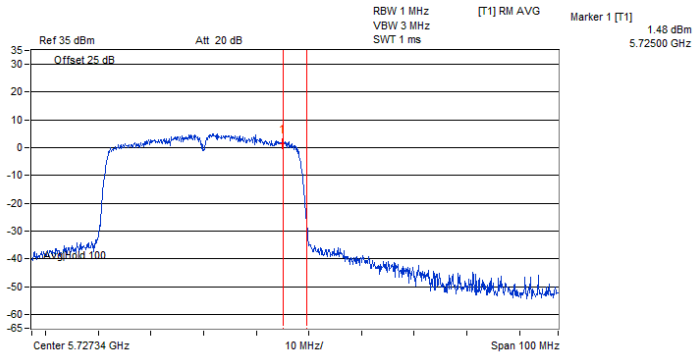
802.11ac (VHT40) CDD / Chain 0 : CH 142 (U-NII-3)

Spectrum Plot for channel straddling



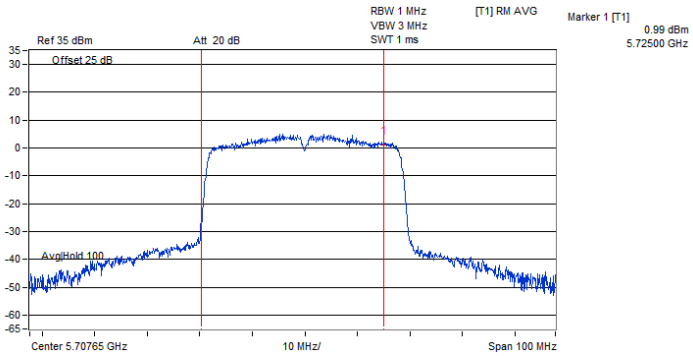
TX Channel Bandwidth 34.71 MHz Power 17.19 dBm

802.11ac (VHT40) CDD / Chain 1 : CH 142 (U-NII-2C)



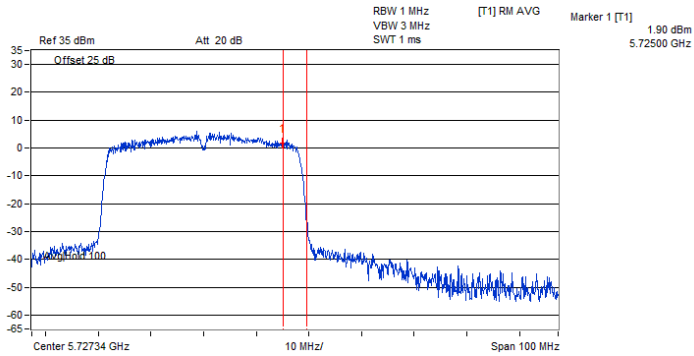
TX Channel Bandwidth 4.67 MHz Power 5.56 dBm

802.11ac (VHT40) CDD / Chain 1 : CH 142 (U-NII-3)



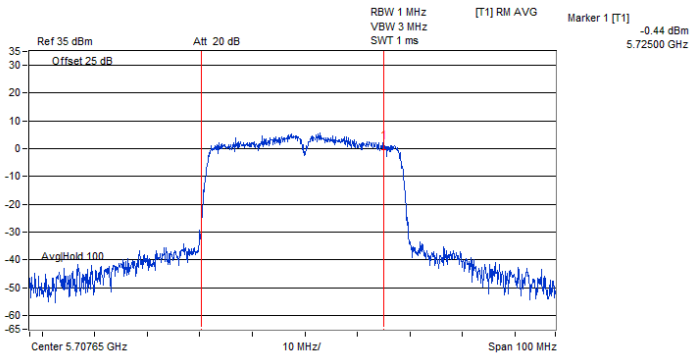
TX Channel Bandwidth 34.69 MHz Power 17.29 dBm

802.11ac (VHT40) CDD / Chain 2 : CH 142 (U-NII-2C)



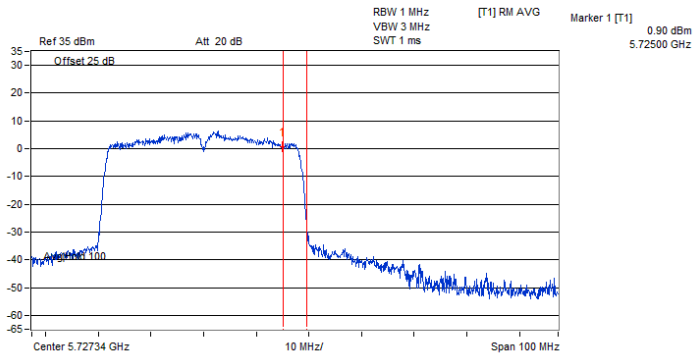
TX Channel Bandwidth 4.67 MHz Power 5.56 dBm

802.11ac (VHT40) CDD / Chain 2 : CH 142 (U-NII-3)



TX Channel Bandwidth 34.71 MHz Power 17.24 dBm

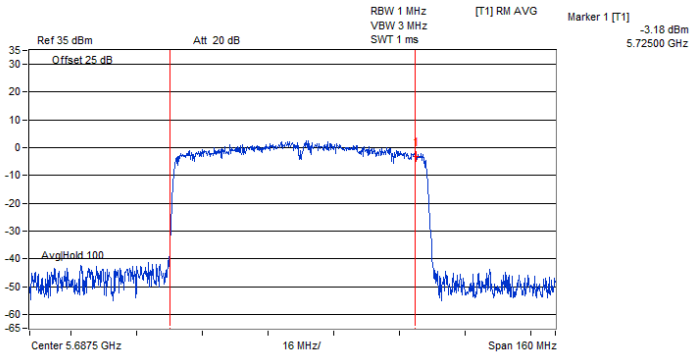
802.11ac (VHT40) CDD / Chain 3 : CH 142 (U-NII-2C)



TX Channel Bandwidth 4.67 MHz Power 5.83 dBm

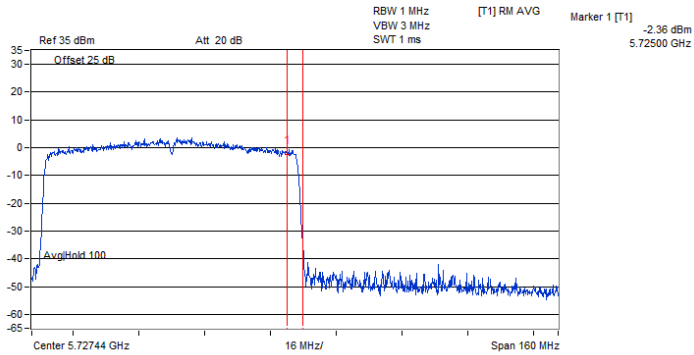
802.11ac (VHT40) CDD / Chain 3 : CH 142 (U-NII-3)

Spectrum Plot for channel straddling



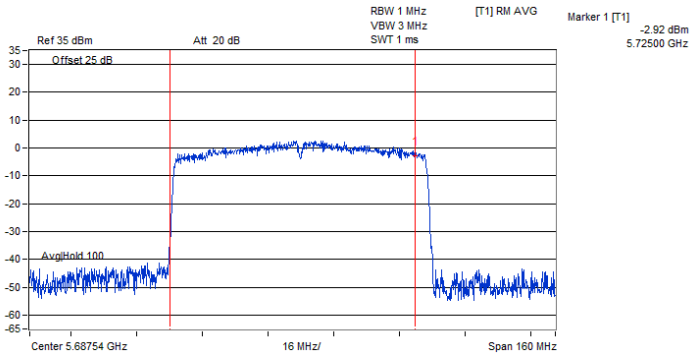
TX Channel Bandwidth 74.99 MHz Power 17.62 dBm

802.11ac (VHT80) CDD / Chain 0 : CH 138 (U-NII-2C)



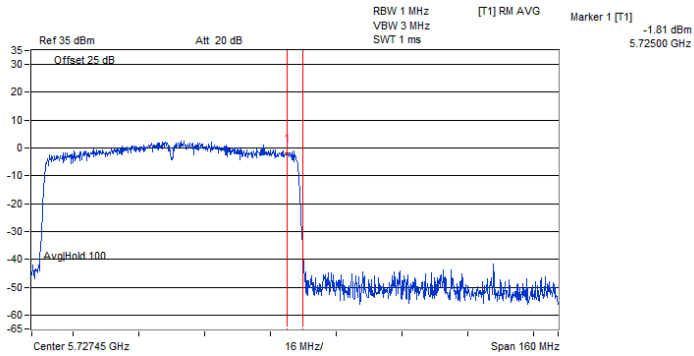
TX Channel Bandwidth 4.88 MHz Power 2.56 dBm

802.11ac (VHT80) CDD / Chain 0 : CH 138 (U-NII-3)



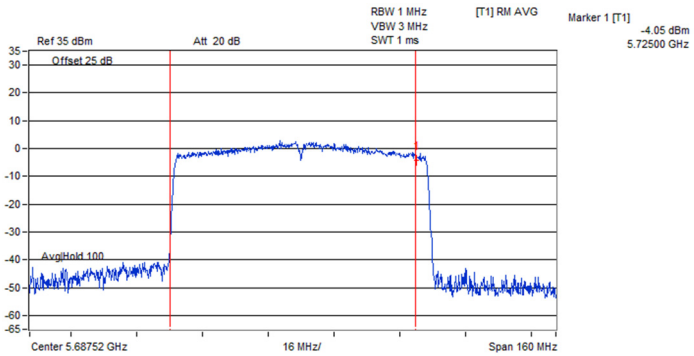
TX Channel Bandwidth 74.92 MHz Power 17.81 dBm

802.11ac (VHT80) CDD / Chain 1 : CH 138 (U-NII-2C)



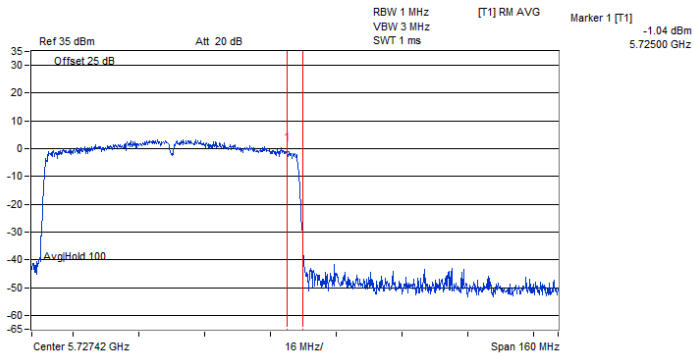
TX Channel Bandwidth 4.9 MHz Power 2.18 dBm

802.11ac (VHT80) CDD / Chain 1 : CH 138 (U-NII-3)



TX Channel Bandwidth 74.96 MHz Power 17.63 dBm

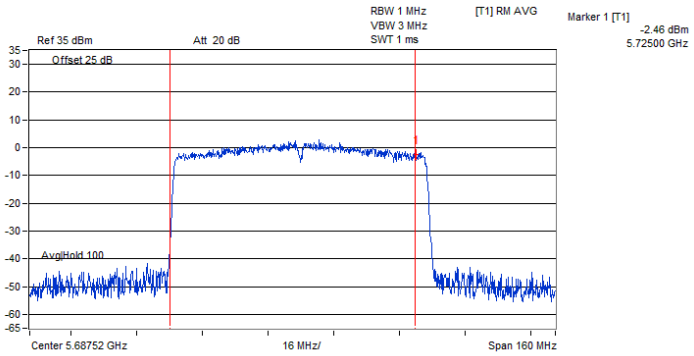
802.11ac (VHT80) CDD / Chain 2 : CH 138 (U-NII-2C)



TX Channel Bandwidth 4.84 MHz Power 2.68 dBm

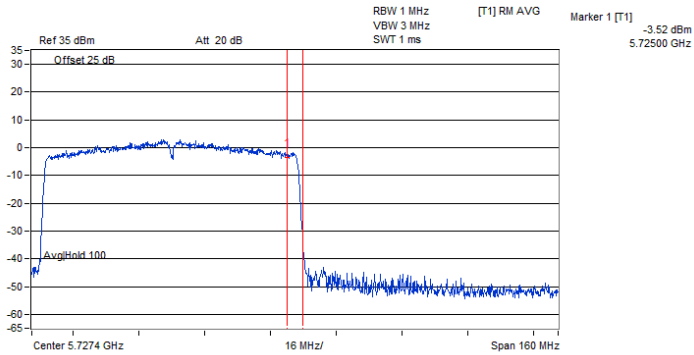
802.11ac (VHT80) CDD / Chain 2 : CH 138 (U-NII-3)

Spectrum Plot for channel straddling



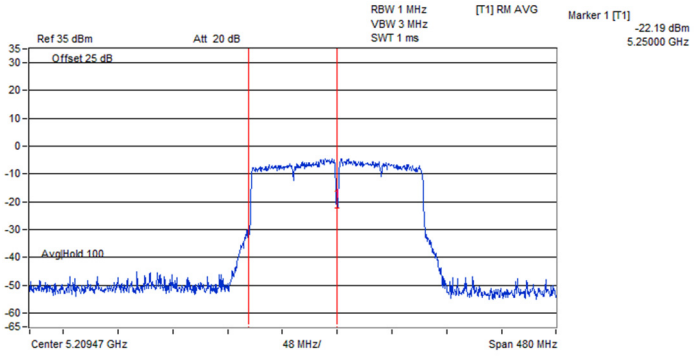
TX Channel Bandwidth 74.95 MHz Power 17.32 dBm

802.11ac (VHT80) CDD / Chain 3 : CH 138 (U-NII-2C)



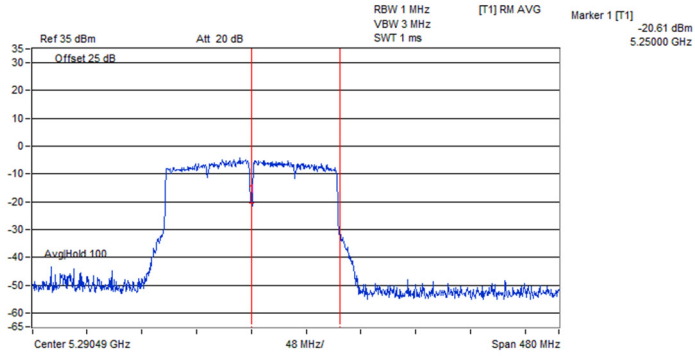
TX Channel Bandwidth 4.8 MHz Power 2.26 dBm

802.11ac (VHT80) CDD / Chain 3 : CH 138 (U-NII-3)



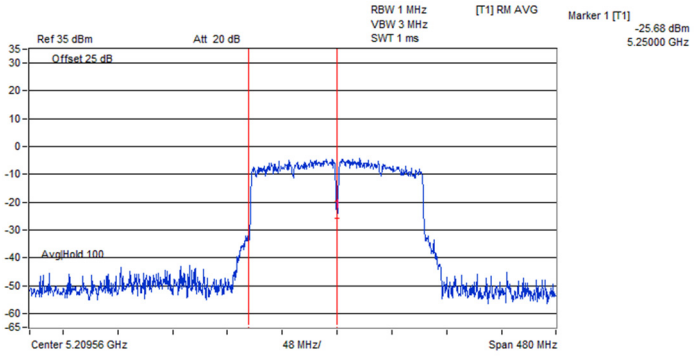
TX Channel Bandwidth 81.06 MHz Power 12.67 dBm

802.11ac (VHT160) CDD / Chain 0 : CH 50 (U-NII-1)



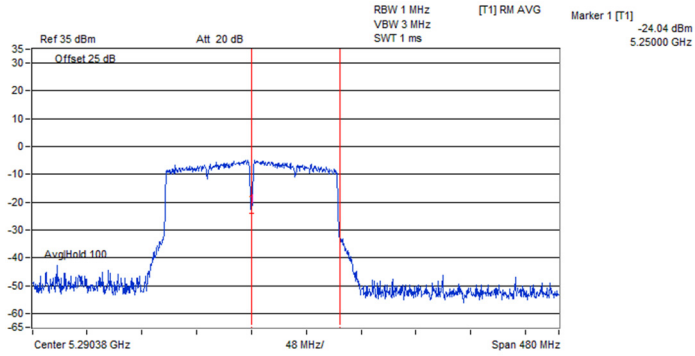
TX Channel Bandwidth 80.98 MHz Power 12.63 dBm

802.11ac (VHT160) CDD / Chain 0 : CH 50 (U-NII-2A)



TX Channel Bandwidth 80.87 MHz Power 12.6 dBm

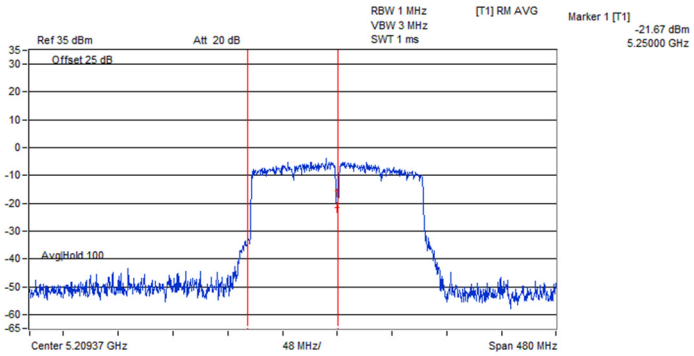
802.11ac (VHT160) CDD / Chain 1 : CH 50 (U-NII-1)



TX Channel Bandwidth 80.77 MHz Power 12.47 dBm

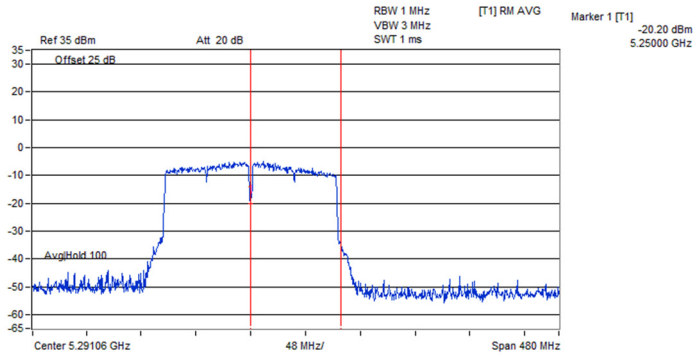
802.11ac (VHT160) CDD / Chain 1 : CH 50 (U-NII-2A)

Spectrum Plot for channel straddling



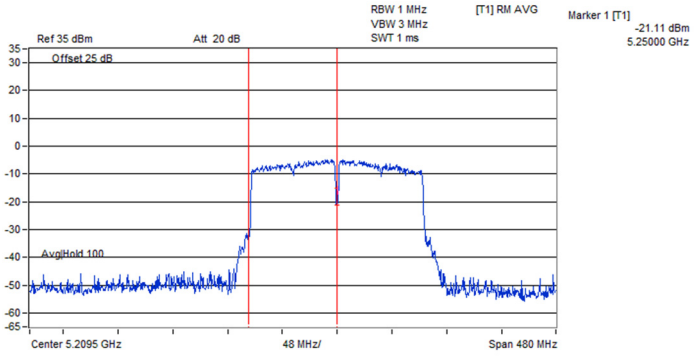
TX Channel Bandwidth 81.27 MHz Power 12.21 dBm

802.11ac (VHT160) CDD / Chain 2 : CH 50 (U-NII-1)



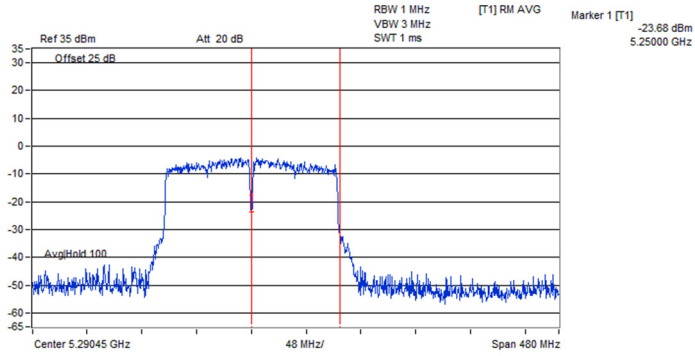
TX Channel Bandwidth 82.11 MHz Power 11.75 dBm

802.11ac (VHT160) CDD / Chain 2 : CH 50 (U-NII-2A)



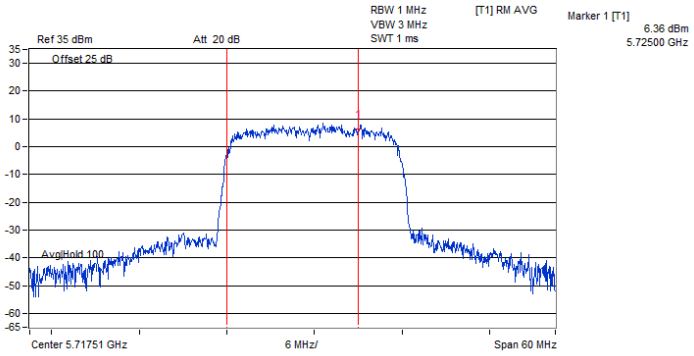
TX Channel Bandwidth 81.01 MHz Power 12.62 dBm

802.11ac (VHT160) CDD / Chain 3 : CH 50 (U-NII-1)



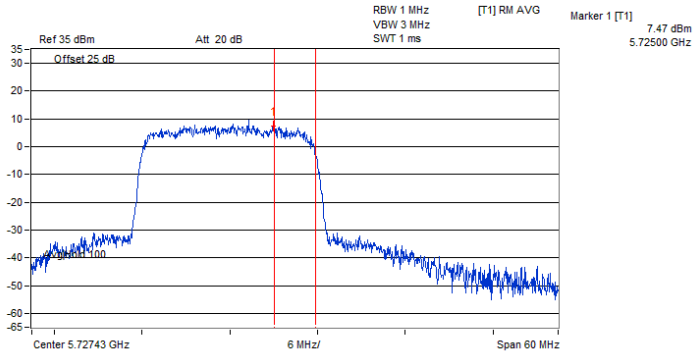
TX Channel Bandwidth 80.91 MHz Power 12.4 dBm

802.11ac (VHT160) CDD / Chain 3 : CH 50 (U-NII-2A)



TX Channel Bandwidth 14.97 MHz Power 16.81 dBm

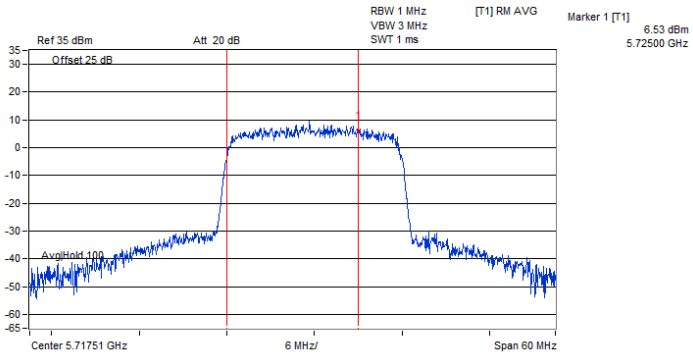
802.11be (EHT20) CDD / Chain 0 : CH 144 (U-NII-2C)



TX Channel Bandwidth 4.86 MHz Power 10.96 dBm

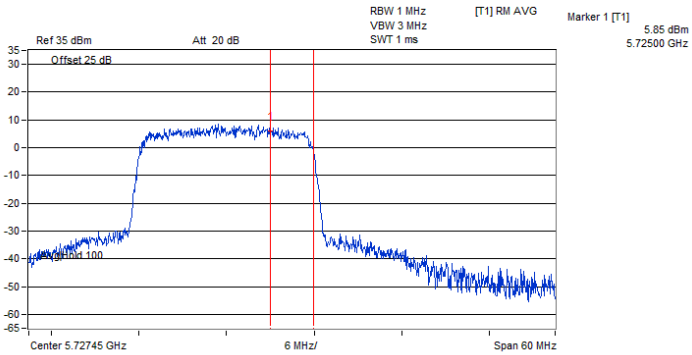
802.11be (EHT20) CDD / Chain 0 : CH 144 (U-NII-3)

Spectrum Plot for channel straddling



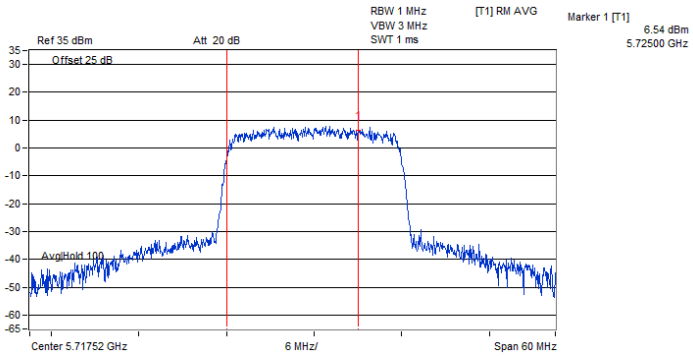
TX Channel Bandwidth 14.97 MHz Power 16.92 dBm

802.11be (EHT20) CDD / Chain 1 : CH 144 (U-NII-2C)



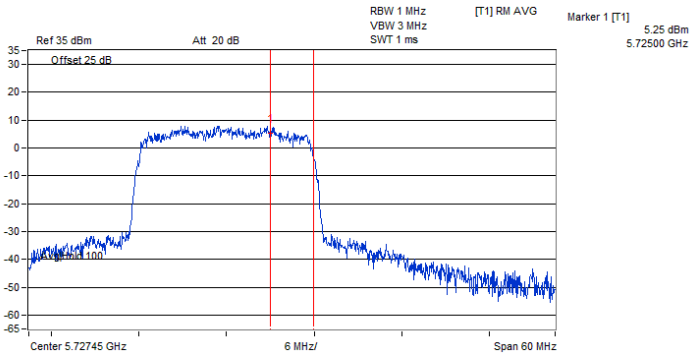
TX Channel Bandwidth 4.9 MHz Power 11.11 dBm

802.11be (EHT20) CDD / Chain 1 : CH 144 (U-NII-3)



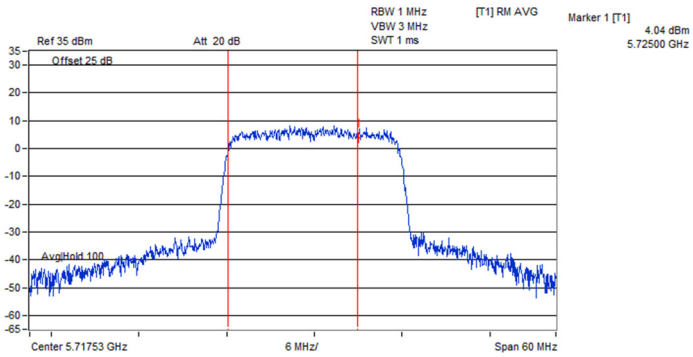
TX Channel Bandwidth 14.96 MHz Power 16.54 dBm

802.11be (EHT20) CDD / Chain 2 : CH 144 (U-NII-2C)



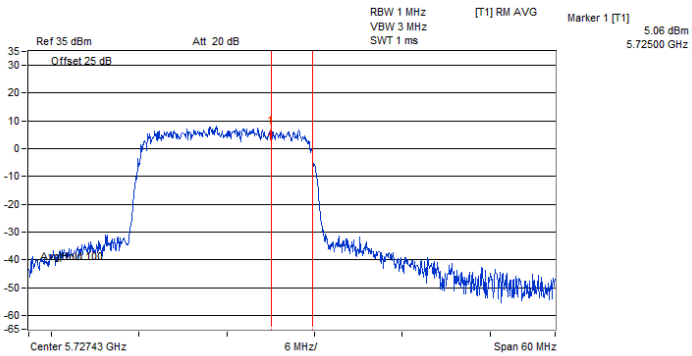
TX Channel Bandwidth 4.91 MHz Power 10.59 dBm

802.11be (EHT20) CDD / Chain 2 : CH 144 (U-NII-3)



TX Channel Bandwidth 14.93 MHz Power 16.46 dBm

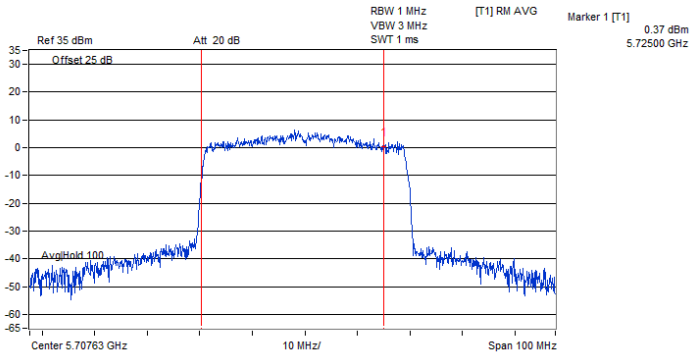
802.11be (EHT20) CDD / Chain 3 : CH 144 (U-NII-2C)



TX Channel Bandwidth 4.86 MHz Power 10.9 dBm

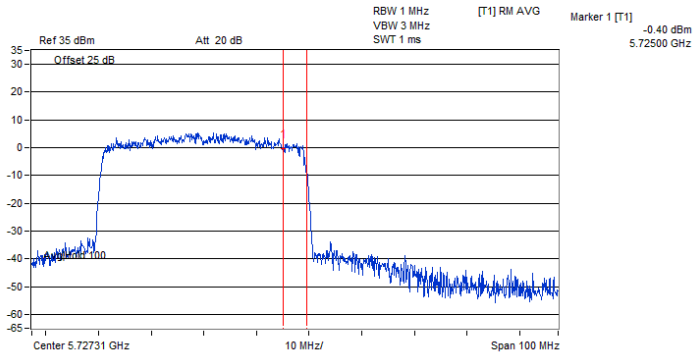
802.11be (EHT20) CDD / Chain 3 : CH 144 (U-NII-3)

Spectrum Plot for channel straddling



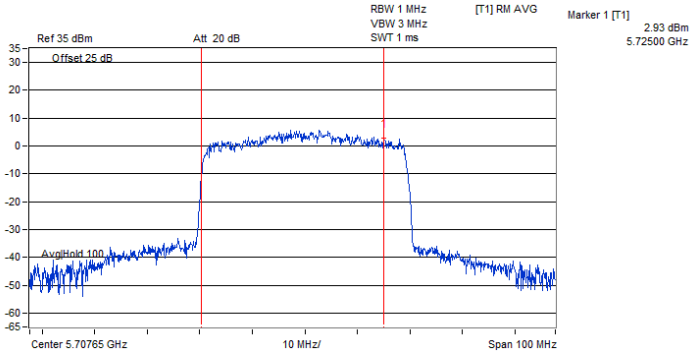
TX Channel Bandwidth 34.73 MHz Power 17.52 dBm

802.11be (EHT40) CDD / Chain 0 : CH 142 (U-NII-2C)



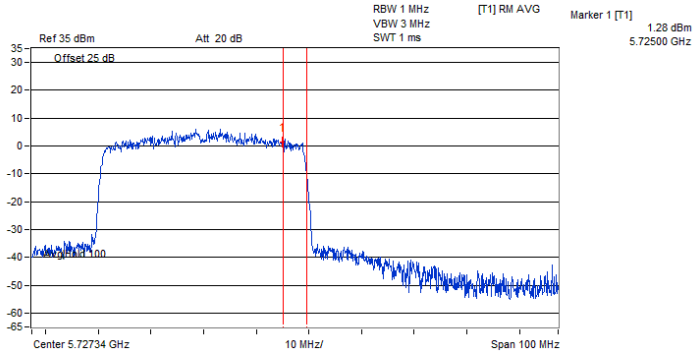
TX Channel Bandwidth 4.63 MHz Power 5.93 dBm

802.11be (EHT40) CDD / Chain 0 : CH 142 (U-NII-3)



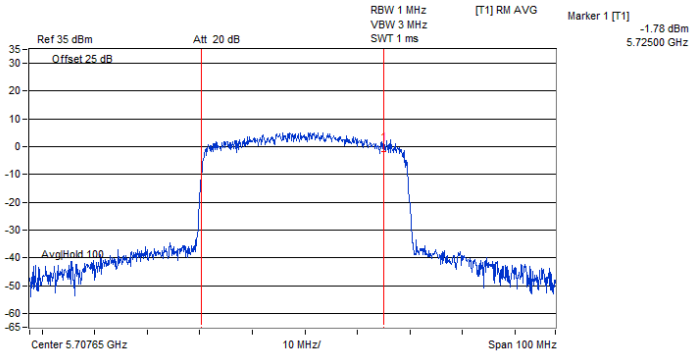
TX Channel Bandwidth 34.71 MHz Power 17.28 dBm

802.11be (EHT40) CDD / Chain 1 : CH 142 (U-NII-2C)



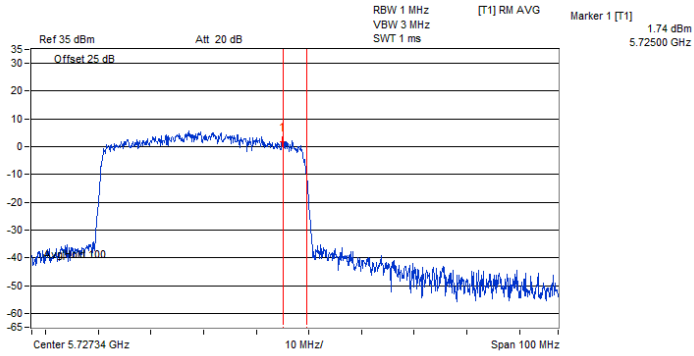
TX Channel Bandwidth 4.67 MHz Power 5.94 dBm

802.11be (EHT40) CDD / Chain 1 : CH 142 (U-NII-3)



TX Channel Bandwidth 34.69 MHz Power 17.36 dBm

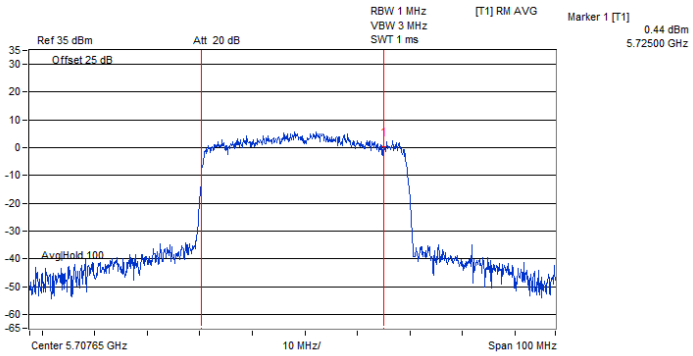
802.11be (EHT40) CDD / Chain 2 : CH 142 (U-NII-2C)



TX Channel Bandwidth 4.67 MHz Power 5.8 dBm

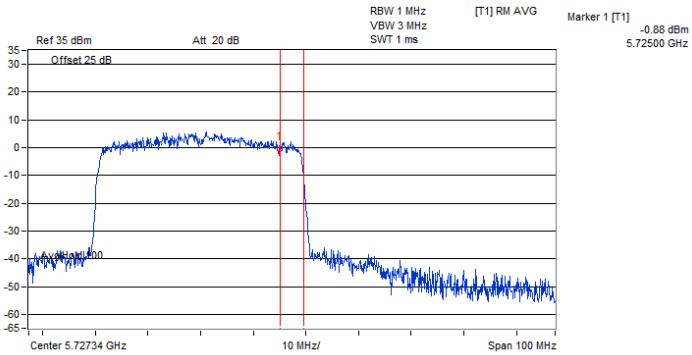
802.11be (EHT40) CDD / Chain 2 : CH 142 (U-NII-3)

Spectrum Plot for channel straddling



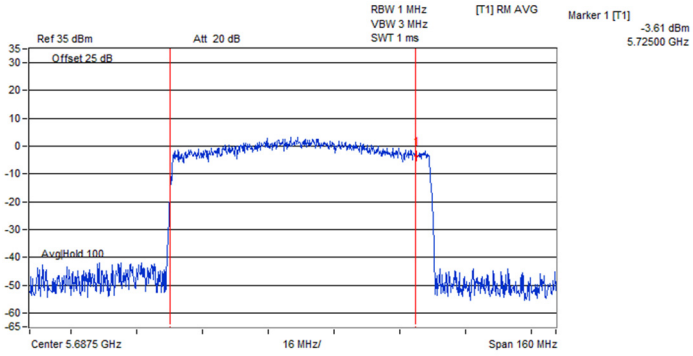
TX Channel Bandwidth 34.71 MHz Power 17.4 dBm

802.11be (EHT40) CDD / Chain 3 : CH 142 (U-NII-2C)



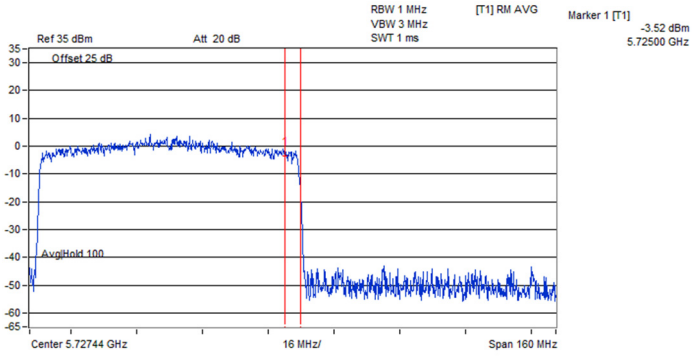
TX Channel Bandwidth 4.67 MHz Power 5.83 dBm

802.11be (EHT40) CDD / Chain 3 : CH 142 (U-NII-3)



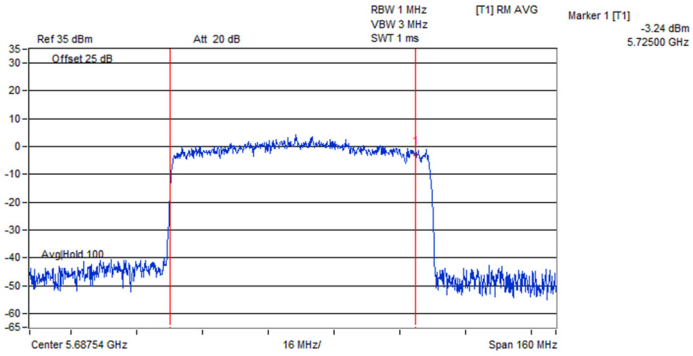
TX Channel Bandwidth 74.99 MHz Power 17.88 dBm

802.11be (EHT80) CDD / Chain 0 : CH 138 (U-NII-2C)



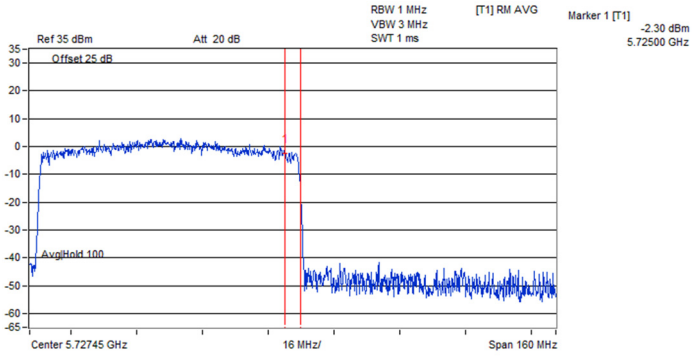
TX Channel Bandwidth 4.88 MHz Power 2.82 dBm

802.11be (EHT80) CDD / Chain 0 : CH 138 (U-NII-3)



TX Channel Bandwidth 74.92 MHz Power 18.02 dBm

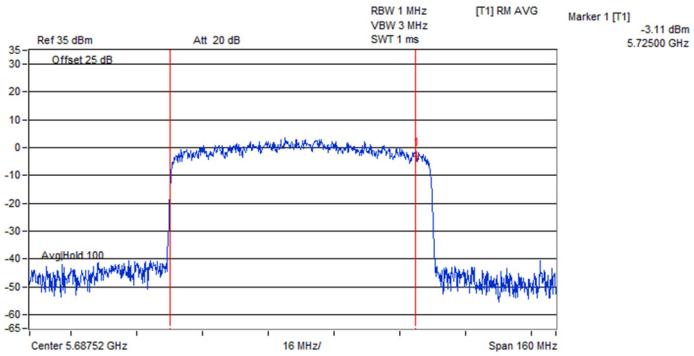
802.11be (EHT80) CDD / Chain 1 : CH 138 (U-NII-2C)



TX Channel Bandwidth 4.9 MHz Power 2.68 dBm

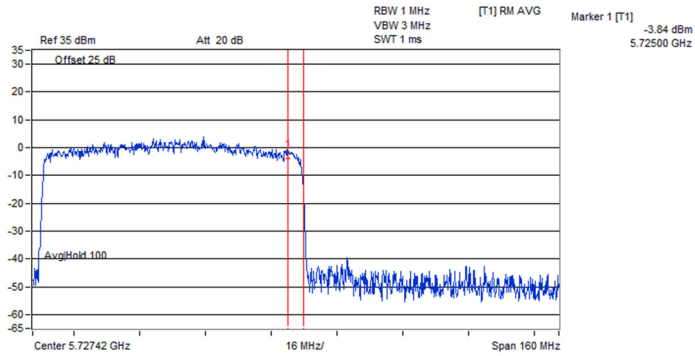
802.11be (EHT80) CDD / Chain 1 : CH 138 (U-NII-3)

Spectrum Plot for channel straddling



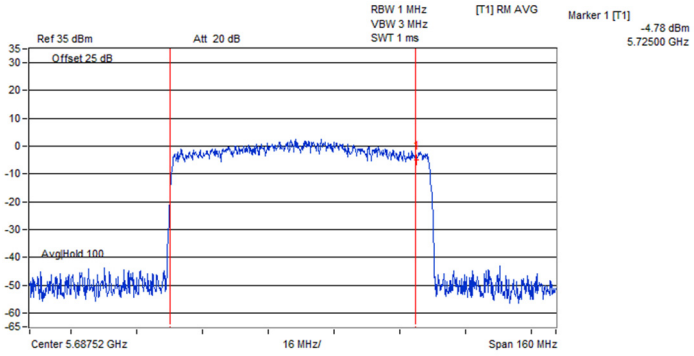
TX Channel Bandwidth 74.96 MHz Power 17.76 dBm

802.11be (EHT80) CDD / Chain 2 : CH 138 (U-NII-2C)



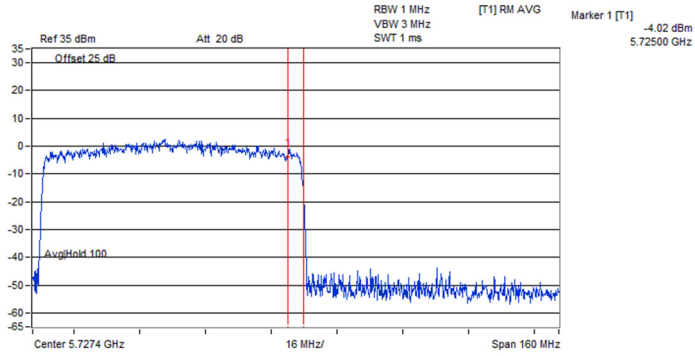
TX Channel Bandwidth 4.84 MHz Power 2.96 dBm

802.11be (EHT80) CDD / Chain 2 : CH 138 (U-NII-3)



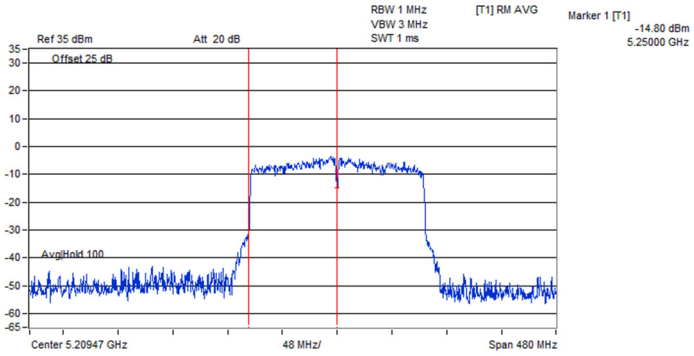
TX Channel Bandwidth 74.95 MHz Power 17.19 dBm

802.11be (EHT80) CDD / Chain 3 : CH 138 (U-NII-2C)



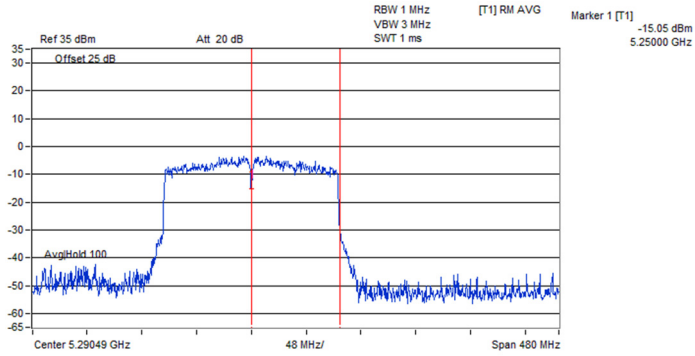
TX Channel Bandwidth 4.8 MHz Power 2.66 dBm

802.11be (EHT80) CDD / Chain 3 : CH 138 (U-NII-3)



TX Channel Bandwidth 81.06 MHz Power 13.24 dBm

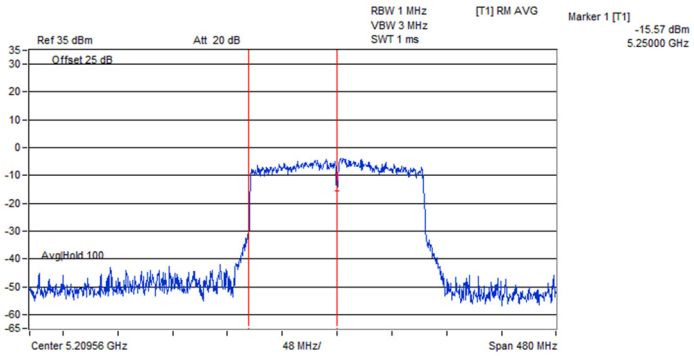
802.11be (EHT160) CDD / Chain 0 : CH 50 (U-NII-1)



TX Channel Bandwidth 80.98 MHz Power 13.09 dBm

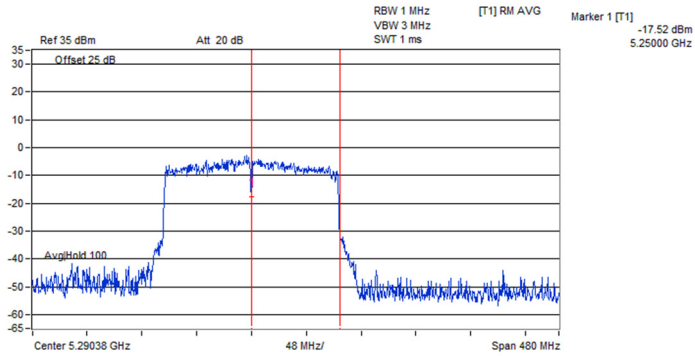
802.11be (EHT160) CDD / Chain 0 : CH 50 (U-NII-2A)

Spectrum Plot for channel straddling



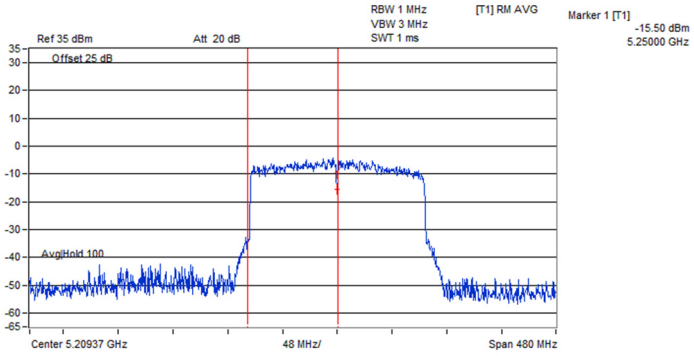
TX Channel Bandwidth 80.87 MHz Power 13.05 dBm

802.11be (EHT160) CDD / Chain 1 : CH 50 (U-NII-1)



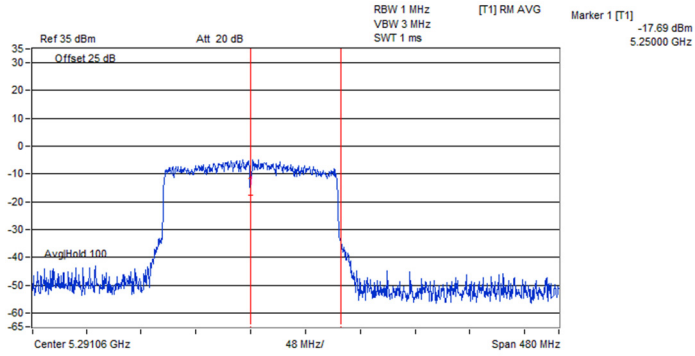
TX Channel Bandwidth 80.77 MHz Power 12.84 dBm

802.11be (EHT160) CDD / Chain 1 : CH 50 (U-NII-2A)



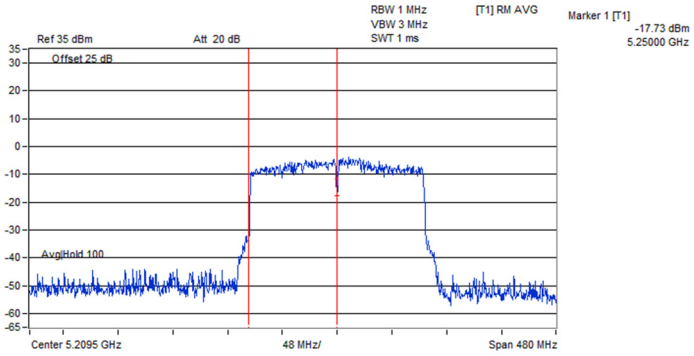
TX Channel Bandwidth 81.27 MHz Power 12.59 dBm

802.11be (EHT160) CDD / Chain 2 : CH 50 (U-NII-1)



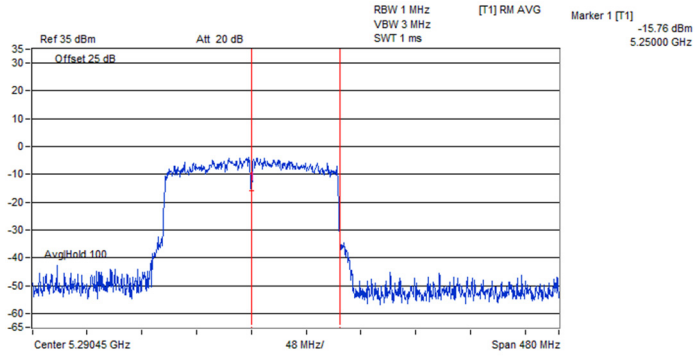
TX Channel Bandwidth 82.11 MHz Power 11.78 dBm

802.11be (EHT160) CDD / Chain 2 : CH 50 (U-NII-2A)



TX Channel Bandwidth 81.01 MHz Power 12.63 dBm

802.11be (EHT160) CDD / Chain 3 : CH 50 (U-NII-1)



TX Channel Bandwidth 80.91 MHz Power 12.97 dBm

802.11be (EHT160) CDD / Chain 3 : CH 50 (U-NII-2A)

7.3 Power Spectral Density

Input Power:	120 Vac, 60 Hz	Environmental Conditions:	26°C, 63% RH	Tested By:	Dolly Chung

802.11a CDD

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)				Total PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3			
36	5180	10.27	9.80	9.34	9.20	15.69	17	Pass
40	5200	11.21	10.73	10.60	10.70	16.84	17	Pass
48	5240	10.76	11.01	9.77	10.61	16.58	17	Pass
52	5260	5.08	5.29	4.70	4.63	10.95	10.98	Pass
60	5300	4.62	5.62	4.54	4.87	10.95	10.98	Pass
64	5320	4.97	5.60	4.55	4.53	10.96	10.98	Pass
100	5500	5.14	4.85	4.97	4.74	10.95	11	Pass
116	5580	3.91	4.29	4.02	3.91	10.06	11	Pass
140	5700	5.25	4.68	5.25	4.48	10.95	11	Pass
144 (U-NII-2C)	5720	4.81	4.27	4.33	3.69	10.31	11	Pass

Notes:

1. Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain is the measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
3. For U-NII-1, the directional gain is 5.8 dBi < 6dBi, so the power density limit shall not be reduced.
4. For U-NII-2A, the directional gain is 6.02 dBi > 6 dBi, so the power density limit shall be reduced to 11-(6.02-6) = 10.98 dBm/MHz.
5. For U-NII-2C, the directional gain is 5.57 dBi < 6 dBi, so the power density limit shall not be reduced.

802.11be (EHT20) CDD

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)				Total PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3			
36	5180	6.62	6.72	6.03	6.16	12.41	17	Pass
40	5200	9.93	9.83	9.36	9.39	15.66	17	Pass
48	5240	10.73	10.85	10.04	10.26	16.50	17	Pass
52	5260	4.57	4.68	4.38	4.71	10.61	10.98	Pass
60	5300	4.14	4.46	3.86	4.43	10.25	10.98	Pass
64	5320	4.05	4.51	3.70	4.46	10.21	10.98	Pass
100	5500	4.81	4.00	4.23	4.10	10.32	11	Pass
116	5580	4.81	5.23	4.34	4.42	10.74	11	Pass
140	5700	3.53	4.66	4.27	4.37	10.25	11	Pass
144 (U-NII-2C)	5720	4.64	4.08	4.20	4.58	10.40	11	Pass

Notes:

1. Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain is the measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
3. For U-NII-1, the directional gain is 5.8 dBi < 6dBi, so the power density limit shall not be reduced.
4. For U-NII-2A, the directional gain is 6.02 dBi > 6 dBi, so the power density limit shall be reduced to 11-(6.02-6) = 10.98 dBm/MHz.
5. For U-NII-2C, the directional gain is 5.57 dBi < 6 dBi, so the power density limit shall not be reduced.

802.11be (EHT40) CDD

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)				Total PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3			
38	5190	3.40	3.83	3.00	3.45	9.45	17	Pass
46	5230	7.20	7.38	6.49	6.03	12.83	17	Pass
54	5270	2.43	3.23	2.44	2.58	8.70	10.98	Pass
62	5310	2.38	2.98	2.02	2.27	8.45	10.98	Pass
102	5510	2.93	2.73	2.52	2.10	8.60	11	Pass
110	5550	3.09	2.88	2.28	2.70	8.77	11	Pass
134	5670	2.72	2.58	2.38	1.68	8.38	11	Pass
142 (U-NII-2C)	5710	2.91	2.64	2.37	2.13	8.54	11	Pass

Notes:

1. Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain is the measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
3. For U-NII-1, the directional gain is 5.8 dBi < 6dBi, so the power density limit shall not be reduced.
4. For U-NII-2A, the directional gain is 6.02 dBi > 6 dBi, so the power density limit shall be reduced to 11-(6.02-6) = 10.98 dBm/MHz.
5. For U-NII-2C, the directional gain is 5.57 dBi < 6 dBi, so the power density limit shall not be reduced.

802.11be (EHT80) CDD

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)				Total PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3			
42	5210	-1.92	-1.98	-2.46	-1.67	4.02	17	Pass
58	5290	-0.16	0.02	-0.42	-0.34	5.80	10.98	Pass
106	5530	-1.17	-1.30	-1.37	-1.66	4.65	11	Pass
122	5610	-0.09	0.17	-0.61	-0.54	5.77	11	Pass
138 (U-NII-2C)	5690	0.01	0.67	0.06	-0.68	6.06	11	Pass

Notes:

1. Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain is the measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
3. For U-NII-1, the directional gain is 5.8 dBi < 6dBi, so the power density limit shall not be reduced.
4. For U-NII-2A, the directional gain is 6.02 dBi > 6 dBi, so the power density limit shall be reduced to 11-(6.02-6) = 10.98 dBm/MHz.
5. For U-NII-2C, the directional gain is 5.57 dBi < 6 dBi, so the power density limit shall not be reduced.

802.11be (EHT160) CDD

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)				Total PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3			
50 (U-NII-1)	5250	-6.74	-6.66	-7.26	-7.37	-0.98	17	Pass
50 (U-NII-2A)	5250	-6.73	-6.73	-7.30	-7.44	-1.02	10.98	Pass
114	5570	-3.50	-3.90	-4.68	-4.01	2.02	11	Pass

Notes:

1. Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain is the measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
3. For U-NII-1, the directional gain is 5.8 dBi < 6dBi, so the power density limit shall not be reduced.
4. For U-NII-2A, the directional gain is 6.02 dBi > 6 dBi, so the power density limit shall be reduced to 11-(6.02-6) = 10.98 dBm/MHz.
5. For U-NII-2C, the directional gain is 5.57 dBi < 6 dBi, so the power density limit shall not be reduced.

802.11a CDD

Chan.	Chan. Freq. (MHz)	PSD (dBm/300kHz)				Total PSD (dBm/300kHz)	Total PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
144 (U-NII-3)	5720	-1.68	-2.25	-2.66	-1.83	3.93	6.15	30	Pass
149	5745	6.79	6.25	5.39	6.49	12.28	14.50	30	Pass
157	5785	7.75	5.44	7.01	6.03	12.67	14.89	30	Pass
165	5825	7.29	6.96	7.09	6.07	12.9	15.12	30	Pass

Notes:

1. Method E) 2) b) Measure and sum spectral maxima across the outputs of KDB 662911 is using for calculating total power density.
2. Directional gain is the measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
3. For U-NII-3, the directional gain is 5.67 dBi < 6 dBi, so the power density limit shall not be reduced.

802.11be (EHT20) CDD

Chan.	Chan. Freq. (MHz)	PSD (dBm/300kHz)				Total PSD (dBm/300kHz)	Total PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
144 (U-NII-3)	5720	-1.10	-1.59	-1.56	-1.55	4.58	6.80	30	Pass
149	5745	5.78	5.73	5.66	5.31	11.64	13.86	30	Pass
157	5785	6.71	5.29	5.32	5.17	11.69	13.91	30	Pass
165	5825	6.92	6.45	5.89	5.12	12.17	14.39	30	Pass

Notes:

1. Method E) 2) b) Measure and sum spectral maxima across the outputs of KDB 662911 is using for calculating total power density.
2. Directional gain is the measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
3. For U-NII-3, the directional gain is 5.67 dBi < 6 dBi, so the power density limit shall not be reduced.

802.11be (EHT40) CDD

Chan.	Chan. Freq. (MHz)	PSD (dBm/300kHz)				Total PSD (dBm/300kHz)	Total PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
142 (U-NII-3)	5710	-5.58	-5.75	-6.27	-6.42	0.03	2.25	30	Pass
151	5755	5.06	4.04	3.85	3.25	10.12	12.34	30	Pass
159	5795	5.20	4.74	5.30	3.82	10.82	13.04	30	Pass

Notes:

1. Method E) 2) b) Measure and sum spectral maxima across the outputs of KDB 662911 is using for calculating total power density.
2. Directional gain is the measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
3. For U-NII-3, the directional gain is 5.67 dBi < 6 dBi, so the power density limit shall not be reduced.

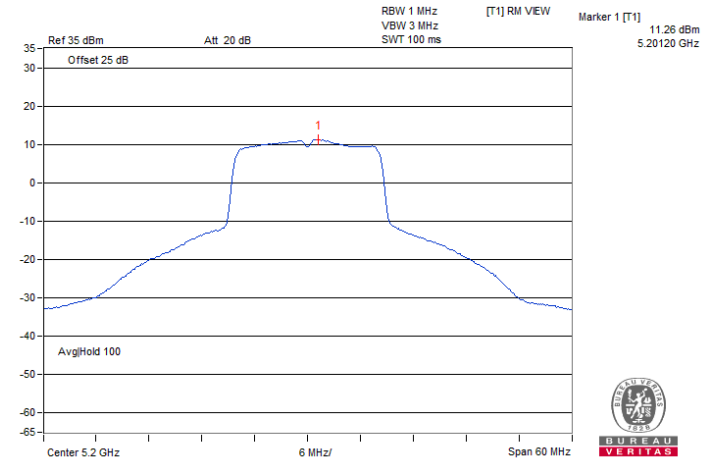
802.11be (EHT80) CDD

Chan.	Chan. Freq. (MHz)	PSD (dBm/300kHz)				Total PSD (dBm/300kHz)	Total PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
138 (U-NII-3)	5690	-9.62	-9.14	-9.05	-10.05	-3.43	-1.21	30	Pass
155	5775	-0.44	-1.06	-0.79	-1.48	5.09	7.31	30	Pass

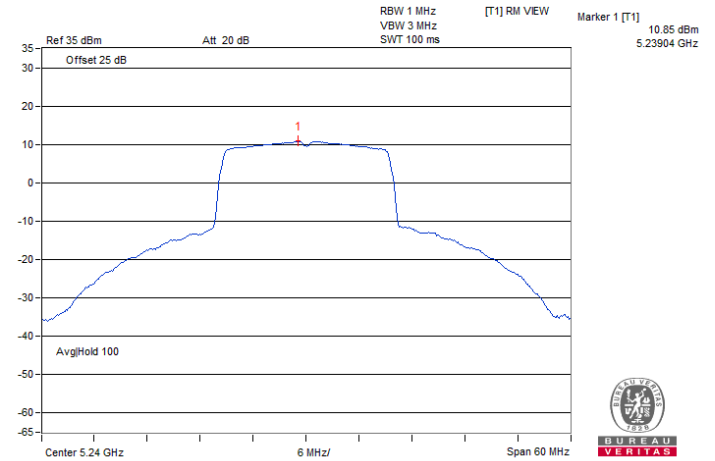
Notes:

1. Method E) 2) b) Measure and sum spectral maxima across the outputs of KDB 662911 is using for calculating total power density.
2. Directional gain is the measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
3. For U-NII-3, the directional gain is 5.67 dBi < 6 dBi, so the power density limit shall not be reduced.

Spectrum Plot of Maximum Value

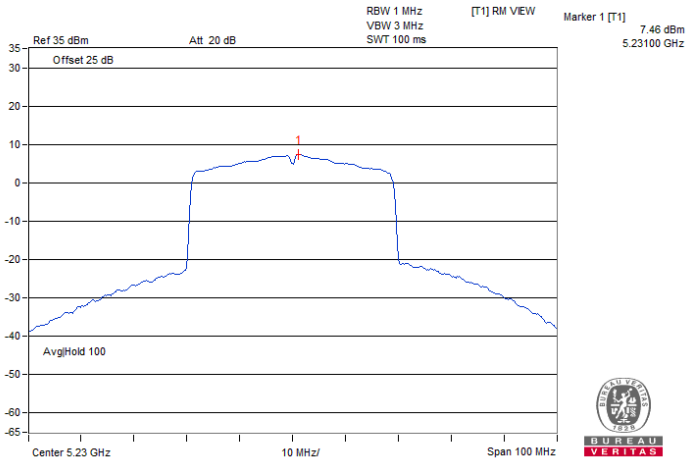


802.11a CDD / Chain 0 : CH 40

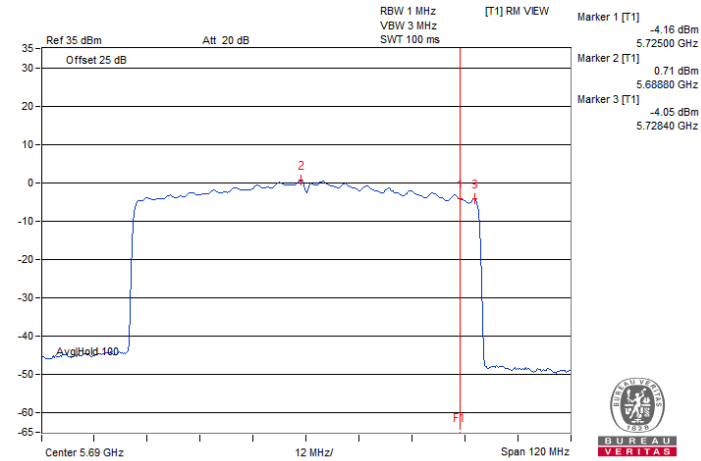


802.11be (EHT20) CDD / Chain 1 : CH 48

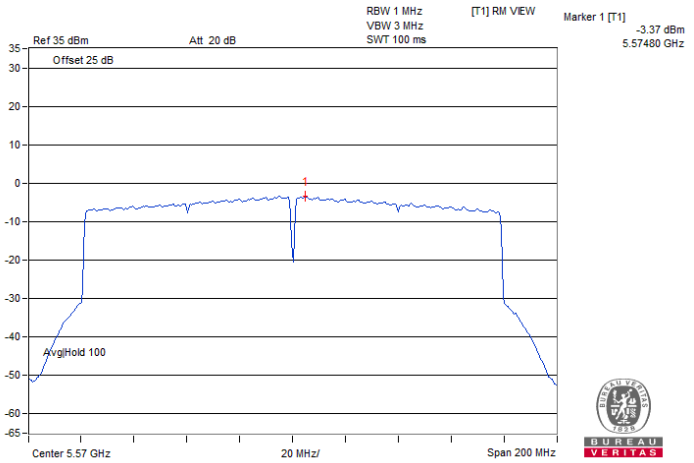
Spectrum Plot of Maximum Value



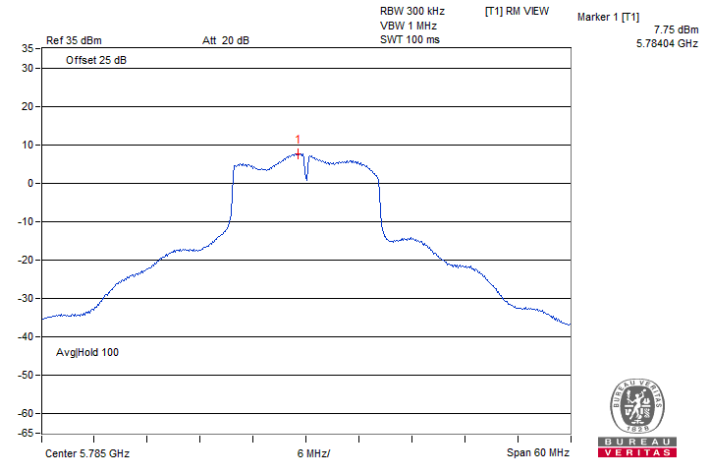
802.11be (EHT40) CDD / Chain 1 : CH 46



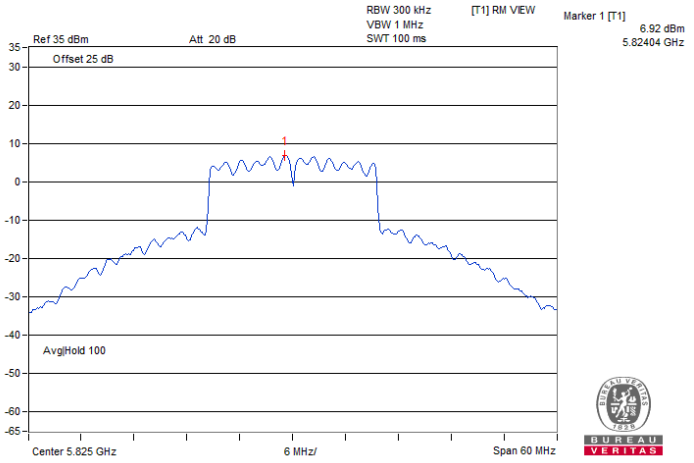
802.11be (EHT80) CDD / Chain 1 : CH 138 (U-NII-2C)



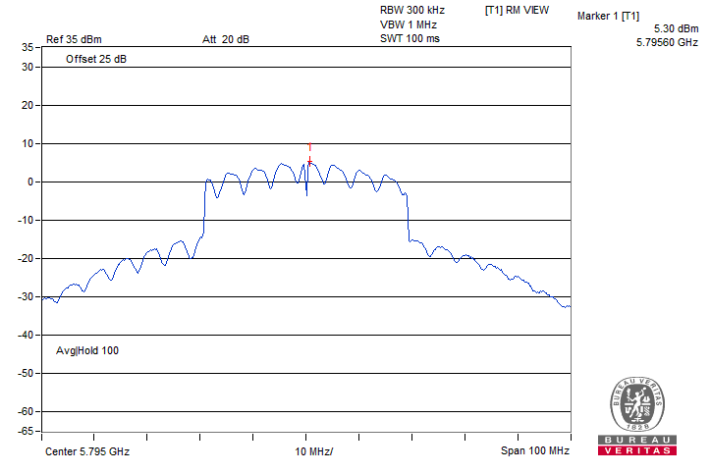
802.11be (EHT160) CDD / Chain 0 : CH 114



802.11a CDD / Chain 0 : CH 157

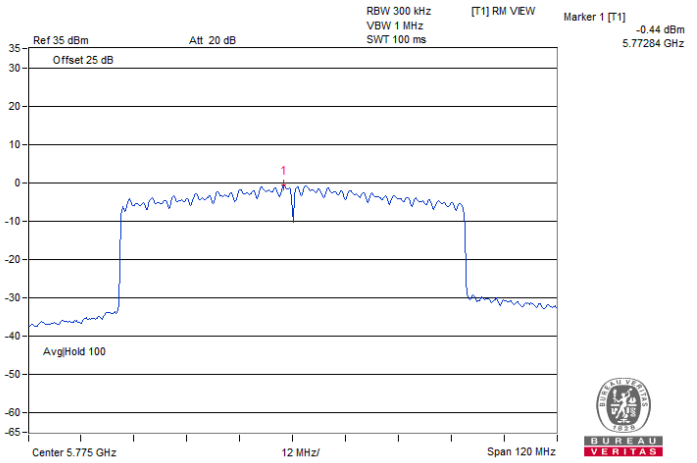


802.11be (EHT20) CDD / Chain 0 : CH 165



802.11be (EHT40) CDD / Chain 2 : CH 159

Spectrum Plot of Maximum Value



802.11be (EHT80) CDD / Chain 0 : CH 155

7.4 6 dB Bandwidth

Input Power:	120 Vac, 60 Hz	Environmental Conditions:	26°C, 63% RH	Tested By:	Dolly Chung

802.11a CDD

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)				Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3		
144 (U-NII-3)	5720	2.80	3.11	2.81	3.12	0.5	Pass
149	5745	15.99	16.35	16.37	14.20	0.5	Pass
157	5785	15.20	16.30	15.35	12.77	0.5	Pass
165	5825	15.99	15.46	13.76	14.72	0.5	Pass

802.11be (EHT20) CDD

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)				Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3		
144 (U-NII-3)	5720	3.70	4.48	4.15	4.14	0.5	Pass
149	5745	17.84	17.67	18.80	18.87	0.5	Pass
157	5785	18.99	17.06	19.08	17.83	0.5	Pass
165	5825	18.57	18.14	18.43	18.84	0.5	Pass

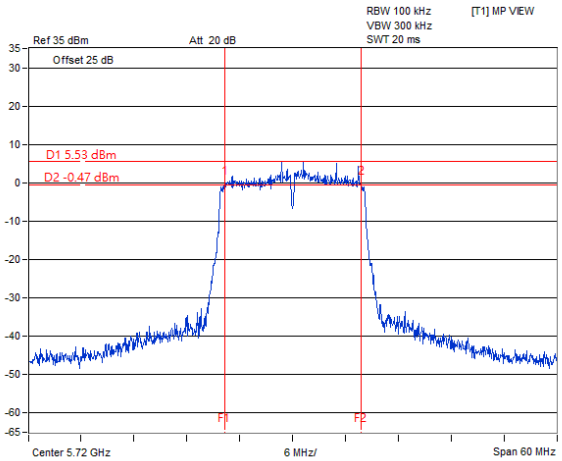
802.11be (EHT40) CDD

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)				Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3		
142 (U-NII-3)	5710	1.24	3.75	1.34	3.42	0.5	Pass
151	5755	32.61	35.74	37.63	32.62	0.5	Pass
159	5795	37.00	36.10	35.86	34.68	0.5	Pass

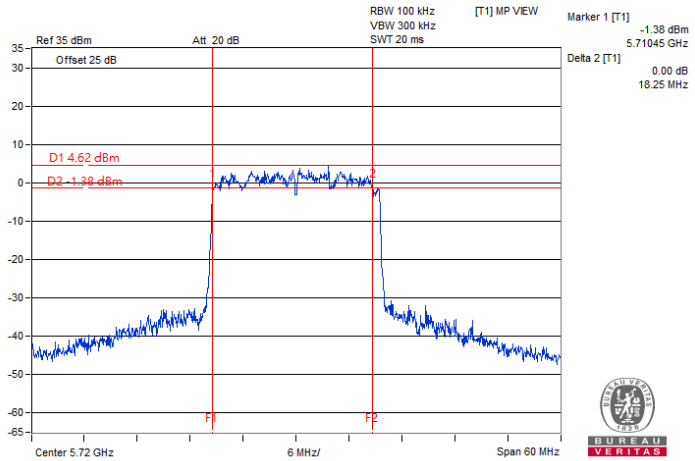
802.11be (EHT80) CDD

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)				Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3		
138 (U-NII-3)	5690	3.28	3.62	1.84	2.22	0.5	Pass
155	5775	74.24	73.47	76.89	73.88	0.5	Pass

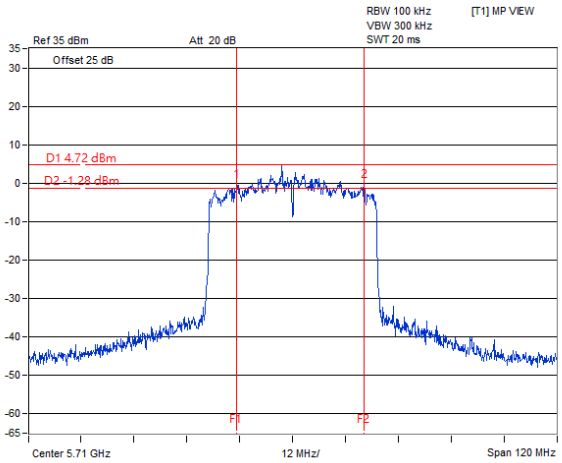
Spectrum Plot of Minimum Value



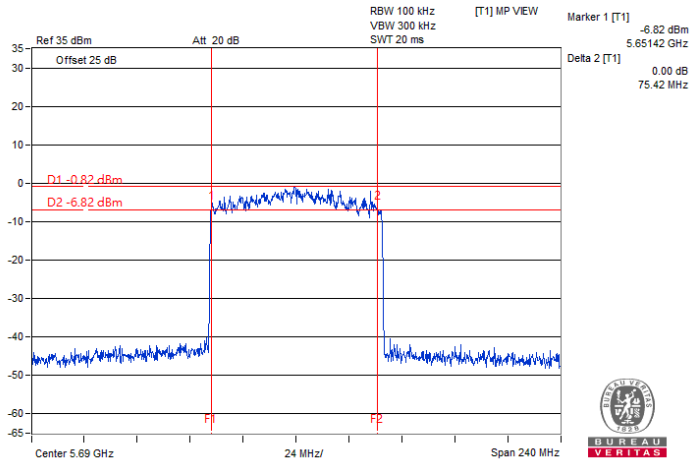
802.11a CDD / Chain 0 : CH 144 (U-NII-3)



802.11be (EHT20) CDD / Chain 0 : CH 144 (U-NII-3)



802.11be (EHT40) CDD / Chain 0 : CH 142 (U-NII-3)



802.11be (EHT80) CDD / Chain 2 : CH 138 (U-NII-3)

Note: For U-NII-3 straddle channel = Marker 1 + Delta 2 - 5725 MHz

7.5 Occupied Bandwidth

Input Power:	120 Vac, 60 Hz	Environmental Conditions:	26°C, 63% RH	Tested By:	Dolly Chung

802.11a CDD

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
36	5180	16.56	16.56	16.50	16.44
40	5200	16.62	16.74	16.80	16.62
48	5240	16.62	16.56	16.56	16.50
52	5260	16.38	16.44	16.38	16.38
60	5300	16.44	16.44	16.44	16.44
64	5320	16.44	16.44	16.44	16.38
100	5500	16.44	16.44	16.44	16.50
116	5580	16.32	16.44	16.38	16.32
140	5700	16.38	16.50	16.50	16.44
144 (U-NII-2C)	5720	13.28	13.28	13.22	13.22
144 (U-NII-3)	5720	3.10	3.16	3.10	3.16
149	5745	17.40	16.74	17.04	16.98
157	5785	20.16	18.00	19.08	18.36
165	5825	22.68	19.74	16.62	18.30

802.11be (EHT20) CDD

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
36	5180	18.84	18.90	18.90	18.96
40	5200	19.08	19.08	18.96	18.90
48	5240	19.02	19.20	19.02	18.96
52	5260	18.84	18.84	18.90	18.78
60	5300	18.90	18.84	18.90	18.84
64	5320	18.90	18.90	18.84	18.90
100	5500	18.90	18.96	18.84	18.90
116	5580	18.96	18.84	18.84	18.84
140	5700	18.90	18.90	18.78	18.78
144 (U-NII-2C)	5720	14.48	14.54	14.54	14.48
144 (U-NII-3)	5720	4.30	4.42	4.42	4.36
149	5745	20.58	19.14	19.08	19.32
157	5785	22.62	20.04	23.94	20.16
165	5825	22.86	20.82	19.20	19.44

802.11be (EHT40) CDD

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
38	5190	37.80	37.68	37.80	37.68
46	5230	37.68	37.80	37.68	37.56
54	5270	37.56	37.56	37.56	37.68
62	5310	37.80	37.68	37.56	37.56
102	5510	37.68	37.80	37.80	37.56
110	5550	37.56	37.80	37.68	37.68
134	5670	37.68	37.68	37.68	37.80
142 (U-NII-2C)	5710	33.96	33.72	33.96	34.08
142 (U-NII-3)	5710	3.84	3.84	3.72	3.72
151	5755	38.76	37.92	38.04	38.04
159	5795	40.20	38.64	38.88	39.00

802.11be (EHT80) CDD

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
42	5210	76.80	76.80	76.80	76.80
58	5290	77.04	76.56	77.04	76.56
106	5530	76.80	76.80	76.80	76.80
122	5610	76.80	76.80	76.56	76.80
138 (U-NII-2C)	5690	73.64	73.40	73.40	73.40
138 (U-NII-3)	5690	3.16	3.40	2.92	3.40
155	5775	77.04	76.80	77.04	77.28

802.11be (EHT160) CDD

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
50 (U-NII-1)	5250	78.24	77.76	78.24	78.24
50 (U-NII-2A)	5250	78.24	78.24	77.76	78.24
114	5570	156.48	156.00	156.48	156.48