

TEST REPORT

CERTIFICATE OF CONFORMITY

Standard: 47 CFR FCC Part 15, Subpart E (Section 15.407)

Report No.: RFBCMA-WTW-P24120364-2

FCC ID: RAXWE7224443B

Product: Verizon Wi-Fi Extender

Brand: Verizon

Model No.: CE1000A

Received Date: 2024/9/10

Test Date: 2024/9/23 ~ 2024/11/2

Issued Date: 2024/12/19

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Issued By: Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch
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FCC Registration / 723255 / TW2022

Designation Number:

Approved by: _____



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2024/12/19

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Release Control Record

Issue No.	Description	Date Issued
RFBCMA-WTW-P24120364-2	Original release.	2024/12/19

1 Certificate

Product: Verizon Wi-Fi Extender

Brand: Verizon

Test Model: CE1000A

Sample Status: Engineering sample

Applicant: Arcadyan Technology Corporation

Test Date: 2024/9/23 ~ 2024/11/2

Standard: 47 CFR FCC Part 15, Subpart E (Section 15.407)

Measurement ANSI C63.10-2013

procedure: 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 -7.88 dB at 0.49766 MHz
15.407(b)(9)	Unwanted Emissions below 1 GHz	Pass	Minimum passing margin is -10.2 dB at 373.55 and 376.73 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 and 5460.00 MHz
15.203	Antenna Requirement	Pass	Antenna connector is ipex(MHF) not a standard connector.

Notes:

- Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.
- 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	Verizon Wi-Fi Extender
Brand	Verizon
Test Model	CE1000A
Status of EUT	Engineering sample
Power Supply Rating	100 ~ 120 Vac
Modulation Type	64QAM, 16QAM, QPSK, BPSK for OFDM 256QAM for OFDM in 11ac mode 1024QAM for OFDMA in 11ax 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
Operating Frequency	5.18 GHz ~ 5.24 GHz 5.26 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): 25 802.11n (HT40), 802.11ac (VHT40), 802.11ax (HE40): 12 802.11ac (VHT80), 802.11ax (HE80): 6 802.11ac (VHT160), 802.11ax (HE160): 1
Output Power	CDD Mode: 5.18 GHz ~ 5.24 GHz: 991.477 mW (29.96 dBm) 5.26 GHz ~ 5.32 GHz: 248.809 mW (23.96 dBm) 5.5 GHz ~ 5.72 GHz: 246.654 mW (23.92 dBm) 5.745 GHz ~ 5.825 GHz: 997.642 mW (29.99 dBm) Beamforming Mode: 5.18 GHz ~ 5.24 GHz: 956.01 mW (29.80 dBm) 5.26 GHz ~ 5.32 GHz: 241.663 mW (23.83 dBm) 5.5 GHz ~ 5.72 GHz: 238.285 mW (23.77 dBm) 5.745 GHz ~ 5.825 GHz: 967.071 mW (29.85 dBm)
EUT Category	Indoor Access Point

Note:

1. The EUT uses following accessories.

Item	Brand	Model	Specification
AC Adapter 1	DELTA	ADH-60BW B	AC Input: 120V ,1.2A, 60Hz DC Output: 12V ,5A ,60W DC Output Cable: 1.8 M, non-shielded cable, W/O ferrite core Plug: US
AC Adapter 2	Lucent Trans	1A98-1250-02	AC Input: 100~120V ,1.2A, 50/60Hz DC Output: 12V ,5A ,60W DC Output Cable: 1.8 M, non-shielded cable, W/O ferrite core Plug: US
RJ45 Cable	-	-	Signal Line: 3 M, non-shielded cable

2. The EUT has below radios as following table:

Radios 1	Radios 2	Radios 3	Radios 4
WLAN 2.4GHz	WLAN 5GHz_Low + WLAN 5GHz_Full	WLAN (5 GHz)_High + WLAN (6 GHz)	WLAN 5GHz Sensor (RX)

3. Simultaneously transmission combination.

Combination	Technology		
1	WLAN (2.4 GHz)	WLAN (5 GHz)_ Full	---
2	WLAN (2.4 GHz)	WLAN (5 GHz)_ Low	WLAN (5 GHz)_ High
3	WLAN (2.4 GHz)	WLAN (5 GHz)_ Full	WLAN (6 GHz)

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 refer to the manufacturer's specifications or user's manual.

3.2 Antenna Description of EUT

1. The antenna information is listed as below.

RF Radio	Antenna No.	RF Chain No.	Brand	Model	Antenna Net Gain(dBi)	Frequency range (GHz)	Antenna Type	Connector Type	Cable Length (mm)
Radio 1	ANT 1	0	PSA	WE7224443B-VR	2.71	2.4 ~ 2.4835	Dipole	ipex(MHF)	150
	ANT 4	1	PSA	WE7224443B-VR	2.59	2.4 ~ 2.4835	Dipole	ipex(MHF)	130
	ANT 8	2	PSA	WE7224443B-VR	2.99	2.4 ~ 2.4835	Dipole	ipex(MHF)	110
	ANT 10	3	PSA	WE7224443B-VR	4.12	2.4 ~ 2.4835	Dipole	ipex(MHF)	150
Radio 2	ANT 2	0	PSA	WE7224443B-VR	4.61	5.15 ~ 5.25	Dipole	ipex(MHF)	100
					4.02	5.25 ~ 5.35			
					4.09	5.47 ~ 5.725			
					4.27	5.725 ~ 5.85			
	ANT 5	1	PSA	WE7224443B-VR	2.66	5.15 ~ 5.25	Dipole	ipex(MHF)	150
					3.12	5.25 ~ 5.35			
					4.65	5.47 ~ 5.725			
					3.73	5.725 ~ 5.85			
	ANT 9	2	PSA	WE7224443B-VR	3.71	5.15 ~ 5.25	Dipole	ipex(MHF)	150
					3.92	5.25 ~ 5.35			
					3.83	5.47 ~ 5.725			
					3.36	5.725 ~ 5.85			
	ANT 11	3	PSA	WE7224443B-VR	3.27	5.15 ~ 5.25	Dipole	ipex(MHF)	85
					3.49	5.25 ~ 5.35			
					2.96	5.47 ~ 5.725			
					2.93	5.725 ~ 5.85			
Radio 3	ANT 3	0	PSA	WE7224443B-VR	2.77	5.47 ~ 5.725	Dipole	ipex(MHF)	150
					4.04	5.725 ~ 5.85			
					3.43	5.925 ~ 6.425			
					3.81	6.425 ~ 6.525			
					3.39	6.525 ~ 6.875			
					3.05	6.875 ~ 7.125			
	ANT 6	1	PSA	WE7224443B-VR	2.65	5.47 ~ 5.725	Dipole	ipex(MHF)	150
					2.23	5.725 ~ 5.85			
					2.79	5.925 ~ 6.425			
					2.07	6.425 ~ 6.525			
					2.9	6.525 ~ 6.875			
					2.59	6.875 ~ 7.125			
	ANT 7	2	PSA	WE7224443B-VR	3.35	5.47 ~ 5.725	Dipole	ipex(MHF)	120
					3.54	5.725 ~ 5.85			
					2.48	5.925 ~ 6.425			
					3.44	6.425 ~ 6.525			
					2.81	6.525 ~ 6.875			
					4.15	6.525 ~ 6.875			
	ANT 12	3	PSA	WE7224443B-VR	2.79	5.47 ~ 5.725	Dipole	ipex(MHF)	150
					3.09	5.725 ~ 5.85			
					0.95	5.925 ~ 6.425			
					1.8	6.425 ~ 6.525			
					3.7	6.525 ~ 6.875			
					3.14	6.525 ~ 6.875			
Radio 4	DFS ANT 13	0	PSA	WE7224443B-VR	4.8	5.15 ~ 5.85	Dipole	ipex(MHF)	150

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

2. The EUT incorporates a MIMO function:

5 GHz_High Band (Radio 3)		
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
5 GHz_Low Band & Full Band (Radio 2)		
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
802.11ax (HE20)	4TX	4RX
802.11ax (HE40)	4TX	4RX
802.11ax (HE80)	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). 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):

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):

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):

Channel	Frequency	Channel	Frequency
42	5210 MHz	58	5290 MHz

FOR 5500 ~ 5720 MHz

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

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):

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):

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

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

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):

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):

Channel	Frequency	Channel	Frequency
151	5755 MHz	159	5795 MHz

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

Channel	Frequency
155	5775 MHz

3.4 Test Mode Applicability and Tested Channel Detail

Pre-Scan:	1. The AC Adapter has the following models: DELTA: ADH-60BW B / Lucent Trans: 1A98-1250-02. 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: Lucent Trans:1A98-1250-02

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

Test Item	EUT Configure Mode	Mode	Signal Mode	Tested Channel	Modulation	Data Rate Parameter
26 dB Bandwidth	A	802.11a	CDD	52, 60, 64	BPSK	6Mb/s
		802.11ax (HE20)		52, 60, 64	BPSK	MCS0
		802.11ax (HE40)		54, 62	BPSK	MCS0
		802.11ax (HE80)		58	BPSK	MCS0
	B	802.11a		52, 60, 64, 100, 116, 140, 144	BPSK	6Mb/s
		802.11ax (HE20)		52, 60, 64, 100, 116, 140, 144	BPSK	MCS0
		802.11ax (HE40)		54, 62, 102, 110, 134, 142	BPSK	MCS0
		802.11ax (HE80)		58, 106, 122, 138	BPSK	MCS0
	C	802.11a		100, 116, 140, 144	BPSK	6Mb/s
		802.11ax (HE20)		100, 116, 140, 144	BPSK	MCS0
		802.11ax (HE40)		102, 110, 134, 142	BPSK	MCS0
		802.11ax (HE80)		106, 122, 138	BPSK	MCS0
		802.11ax (HE160)		114	BPSK	MCS0

Test Item	EUT Configure Mode	Mode	Signal Mode	Tested Channel	Modulation	Data Rate Parameter
RF Output Power	A	802.11a	CDD	36, 40, 48, 52, 60, 64	BPSK	6Mb/s
		802.11ac (VHT20)	CDD & Beamforming	36, 40, 48, 52, 60, 64	BPSK	MCS0
		802.11ac (VHT40)		38, 46, 54, 62	BPSK	MCS0
		802.11ac (VHT80)		42, 58	BPSK	MCS0
		802.11ax (HE20)		36, 40, 48, 52, 60, 64	BPSK	MCS0
		802.11ax (HE40)		38, 46, 54, 62	BPSK	MCS0
		802.11ax (HE80)		42, 58	BPSK	MCS0
	B	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
		802.11ax (HE20)		36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165	BPSK	MCS0
		802.11ax (HE40)		38, 46, 54, 62, 102, 110, 134, 142, 151, 159	BPSK	MCS0
		802.11ax (HE80)		42, 58, 106, 122, 138, 155	BPSK	MCS0

Test Item	EUT Configure Mode	Mode	Signal Mode	Tested Channel	Modulation	Data Rate Parameter
RF Output Power	C	802.11a	CDD	100, 116, 140, 144, 149, 157, 165	BPSK	6Mb/s
		802.11ac (VHT20)	CDD & Beamforming	100, 116, 140, 144, 149, 157, 165	BPSK	MCS0
		802.11ac (VHT40)		102, 110, 134, 142, 151, 159	BPSK	MCS0
		802.11ac (VHT80)		106, 122, 138, 155	BPSK	MCS0
		802.11ac (VHT160)		114	BPSK	MCS0
		802.11ax (HE20)		100, 116, 140, 144, 149, 157, 165	BPSK	MCS0
		802.11ax (HE40)		102, 110, 134, 142, 151, 159	BPSK	MCS0
		802.11ax (HE80)		106, 122, 138, 155	BPSK	MCS0
		802.11ax (HE160)		114	BPSK	MCS0
Power Spectral Density	A	802.11a	CDD	36, 40, 48, 52, 60, 64	BPSK	6Mb/s
		802.11ax (HE20)		36, 40, 48, 52, 60, 64	BPSK	MCS0
		802.11ax (HE40)		38, 46, 54, 62	BPSK	MCS0
		802.11ax (HE80)		42, 58	BPSK	MCS0
	B	802.11a		36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165	BPSK	6Mb/s
		802.11ax (HE20)		36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165	BPSK	MCS0
		802.11ax (HE40)		38, 46, 54, 62, 102, 110, 134, 142, 151, 159	BPSK	MCS0
		802.11ax (HE80)		42, 58, 106, 122, 138, 155	BPSK	MCS0

Test Item	EUT Configure Mode	Mode	Signal Mode	Tested Channel	Modulation	Data Rate Parameter
Power Spectral Density	C	802.11a	CDD	100, 116, 140, 144, 149, 157, 165	BPSK	6Mb/s
		802.11ax (HE20)		100, 116, 140, 144, 149, 157, 165	BPSK	MCS0
		802.11ax (HE40)		102, 110, 134, 142, 151, 159	BPSK	MCS0
		802.11ax (HE80)		106, 122, 138, 155	BPSK	MCS0
		802.11ax (HE160)		114	BPSK	MCS0
6 dB Bandwidth	B	802.11a	CDD	144, 149, 157, 165	BPSK	6Mb/s
		802.11ax (HE20)		144, 149, 157, 165	BPSK	MCS0
		802.11ax (HE40)		142, 151, 159	BPSK	MCS0
		802.11ax (HE80)		138, 155	BPSK	MCS0
	C	802.11a		144, 149, 157, 165	BPSK	6Mb/s
		802.11ax (HE20)		144, 149, 157, 165	BPSK	MCS0
		802.11ax (HE40)		142, 151, 159	BPSK	MCS0
		802.11ax (HE80)		138, 155	BPSK	MCS0
Occupied Bandwidth	A	802.11a	CDD	36, 40, 48, 52, 60, 64	BPSK	6Mb/s
		802.11ax (HE20)		36, 40, 48, 52, 60, 64	BPSK	MCS0
		802.11ax (HE40)		38, 46, 54, 62	BPSK	MCS0
		802.11ax (HE80)		42, 58	BPSK	MCS0
	B	802.11a		36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165	BPSK	6Mb/s
		802.11ax (HE20)		36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165	BPSK	MCS0
		802.11ax (HE40)		38, 46, 54, 62, 102, 110, 134, 142, 151, 159	BPSK	MCS0
		802.11ax (HE80)		42, 58, 106, 122, 138, 155	BPSK	MCS0

Test Item	EUT Configure Mode	Mode	Signal Mode	Tested Channel	Modulation	Data Rate Parameter
Occupied Bandwidth	C	802.11a	CDD	100, 116, 140, 144, 149, 157, 165	BPSK	6Mb/s
		802.11ax (HE20)		100, 116, 140, 144, 149, 157, 165	BPSK	MCS0
		802.11ax (HE40)		102, 110, 134, 142, 151, 159	BPSK	MCS0
		802.11ax (HE80)		106, 122, 138, 155	BPSK	MCS0
		802.11ax (HE160)		114	BPSK	MCS0
AC Power Conducted Emissions	A	802.11a	CDD	40	BPSK	6Mb/s
	B	802.11a		48	BPSK	6Mb/s
	C	802.11ax (HE20)		157	BPSK	MCS0
Unwanted Emissions below 1 GHz	A	802.11a	CDD	40	BPSK	6Mb/s
	B	802.11a		48	BPSK	6Mb/s
	C	802.11ax (HE20)		157	BPSK	MCS0
Unwanted Emissions above 1 GHz	A	802.11a	CDD	36, 40, 48, 52, 60, 64	BPSK	6Mb/s
		802.11ax (HE20)		36, 40, 48, 52, 60, 64	BPSK	MCS0
		802.11ax (HE40)		38, 46, 54, 62	BPSK	MCS0
		802.11ax (HE80)		42, 58	BPSK	MCS0
	B	802.11a		36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165	BPSK	6Mb/s
		802.11ax (HE20)		36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165	BPSK	MCS0
		802.11ax (HE40)		38, 46, 54, 62, 102, 110, 134, 142, 151, 159	BPSK	MCS0
		802.11ax (HE80)		42, 58, 106, 122, 138, 155	BPSK	MCS0

Test Item	EUT Configure Mode	Mode	Signal Mode	Tested Channel	Modulation	Data Rate Parameter
Unwanted Emissions above 1 GHz	C	802.11a	CDD	100, 116, 140, 144, 149, 157, 165	BPSK	6Mb/s
		802.11ax (HE20)		100, 116, 140, 144, 149, 157, 165	BPSK	MCS0
		802.11ax (HE40)		102, 110, 134, 142, 151, 159	BPSK	MCS0
		802.11ax (HE80)		106, 122, 138, 155	BPSK	MCS0
		802.11ax (HE160)		114	BPSK	MCS0
EUT Configure Mode:	A	5GL-RADIO 2				
	B	5GF-RADIO 2				
	C	5GH-RADIO 3				
Note: Partial RU (resource unit) mechanism is not supported.						

3.5 Duty Cycle of Test Signal

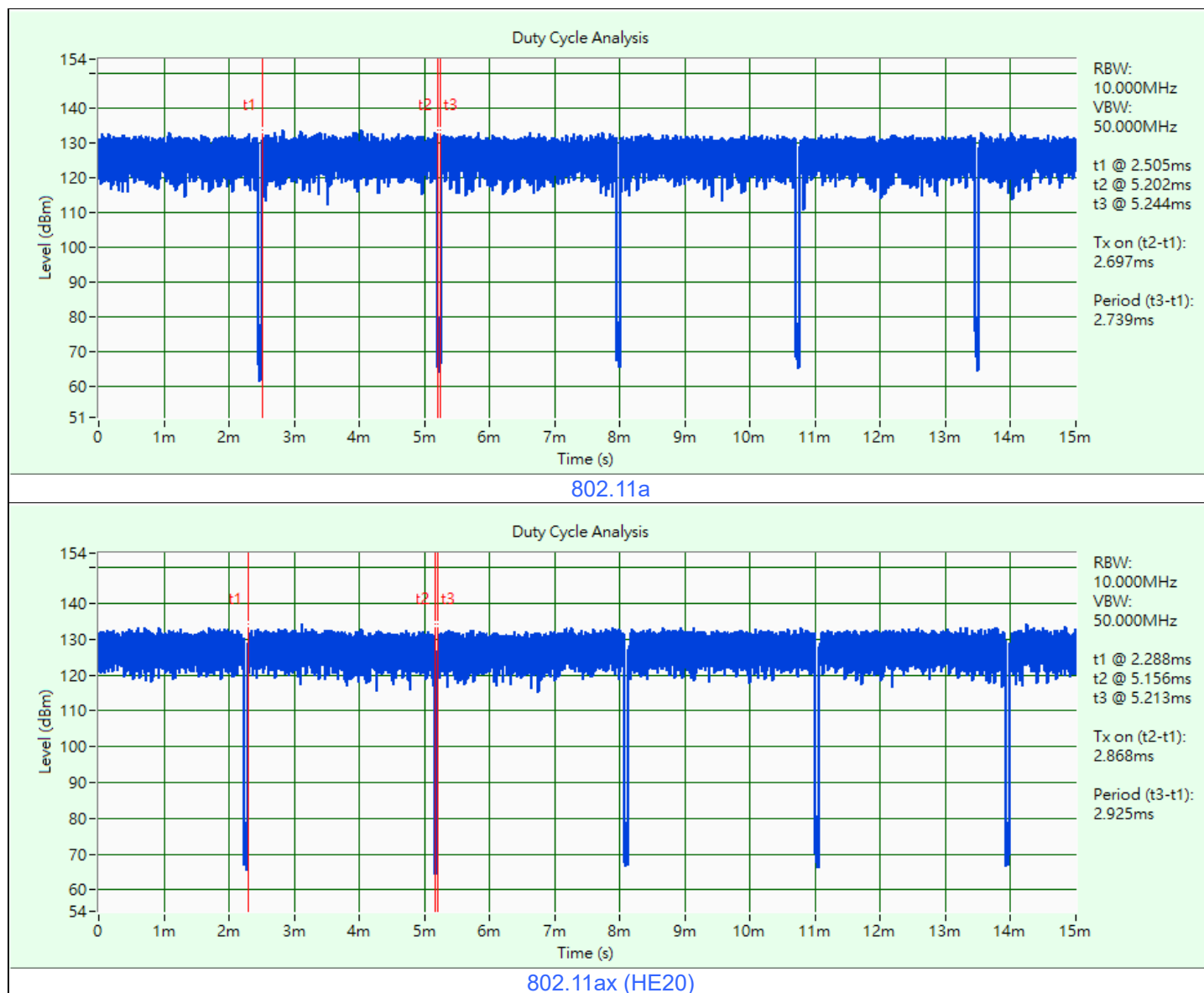
Mode A

802.11a: Duty cycle = 2.697 ms / 2.739 ms x 100% = 98.5%

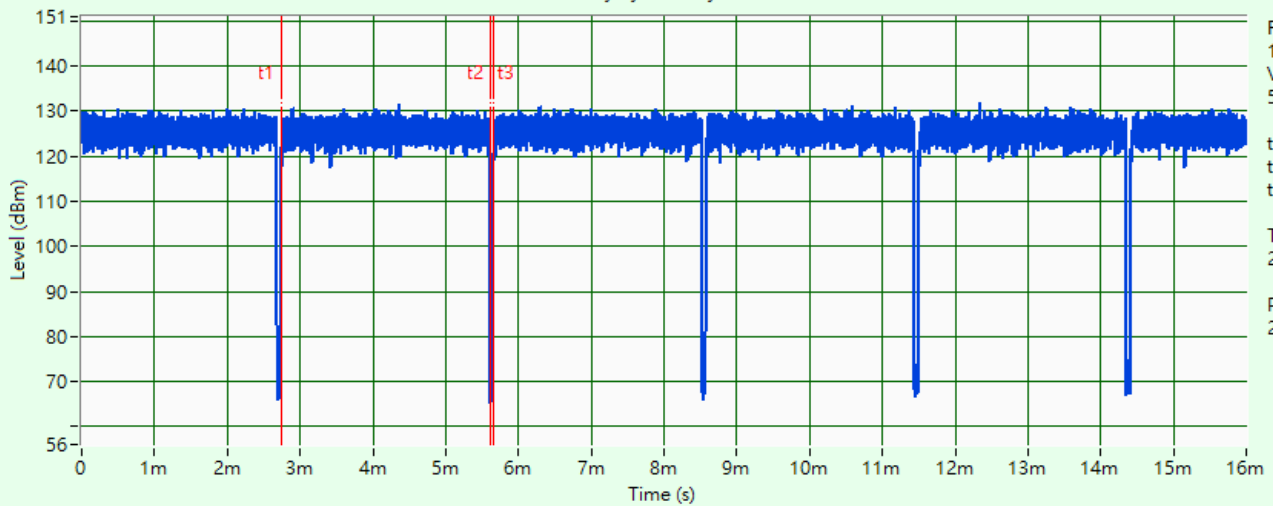
802.11ax (HE20): Duty cycle = 2.868 ms / 2.925 ms x 100% = 98.1%

802.11ax (HE40): Duty cycle = 2.861 ms / 2.917 ms x 100% = 98.1%

802.11ax (HE80): Duty cycle = 3.401 ms / 3.456 ms x 100% = 98.4%

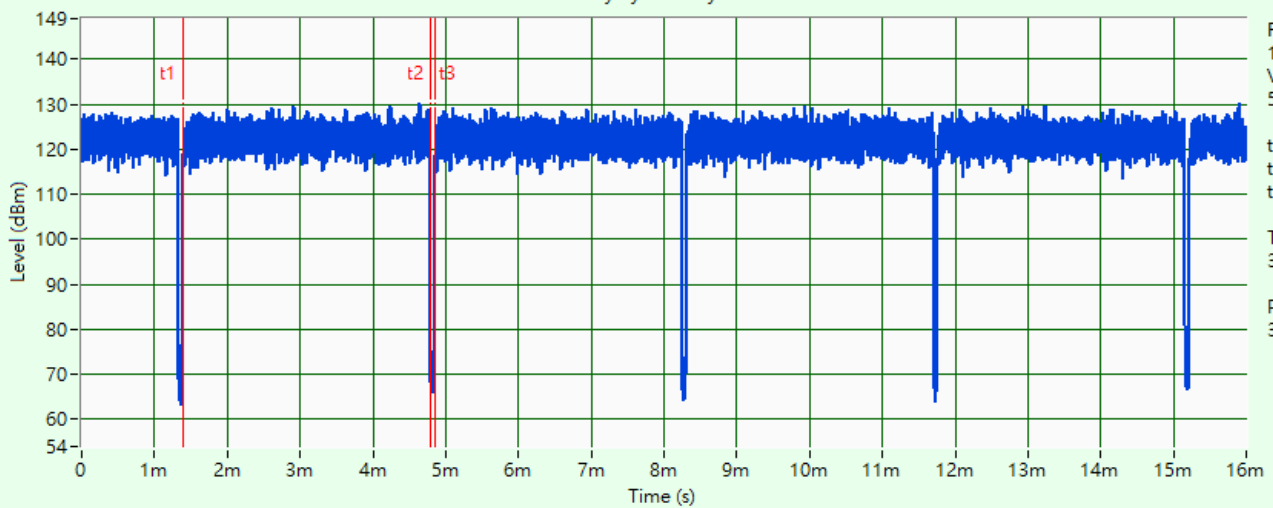


Duty Cycle Analysis



802.11ax (HE40)

Duty Cycle Analysis



802.11ax (HE80)

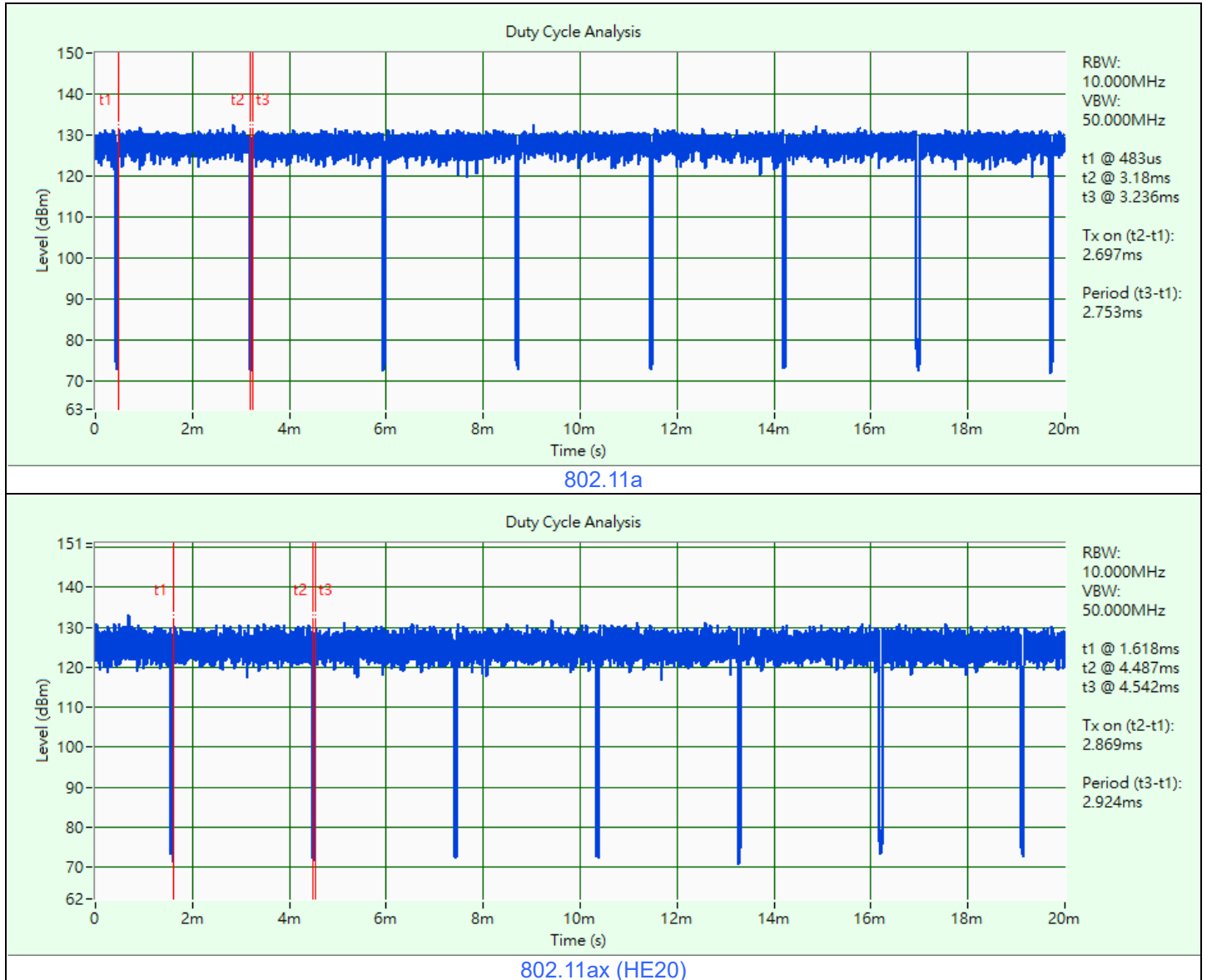
Mode B

802.11a: Duty cycle = 2.697 ms / 2.753 ms x 100% = 98.0%

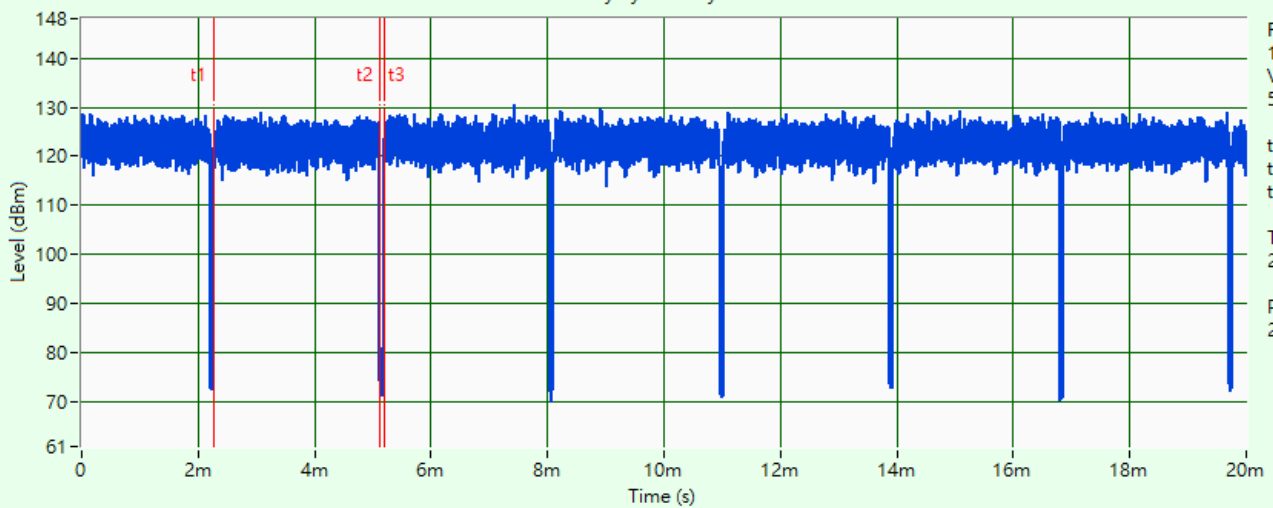
802.11ax (HE20): Duty cycle = 2.869 ms / 2.924 ms x 100% = 98.1%

802.11ax (HE40): Duty cycle = 2.861 ms / 2.916 ms x 100% = 98.1%

802.11ax (HE80): Duty cycle = 3.401 ms / 3.456 ms x 100% = 98.4%

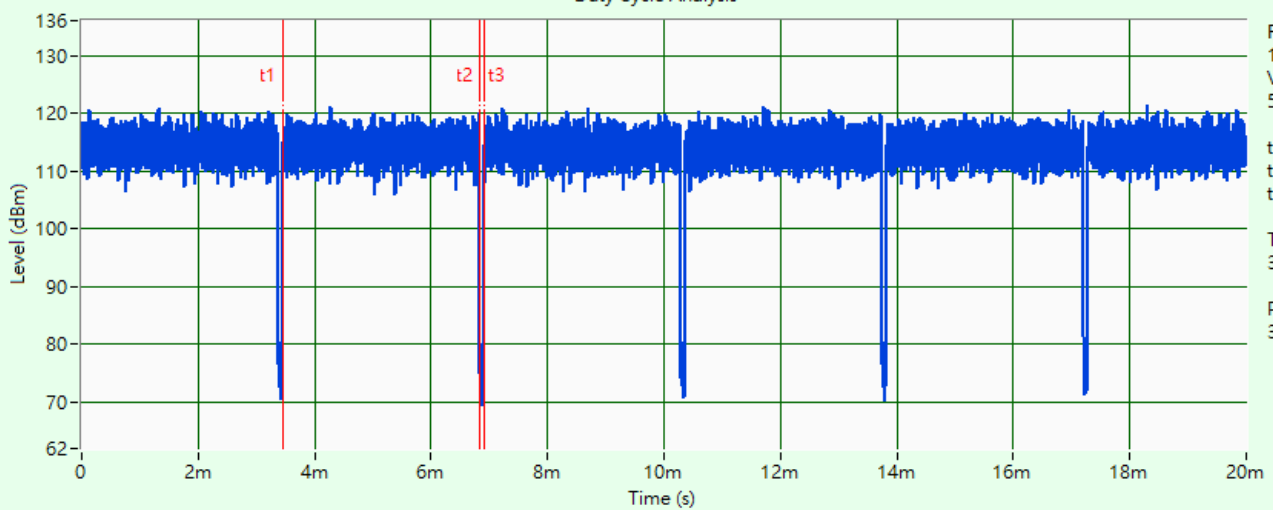


Duty Cycle Analysis



802.11ax (HE40)

Duty Cycle Analysis



802.11ax (HE80)

Mode C

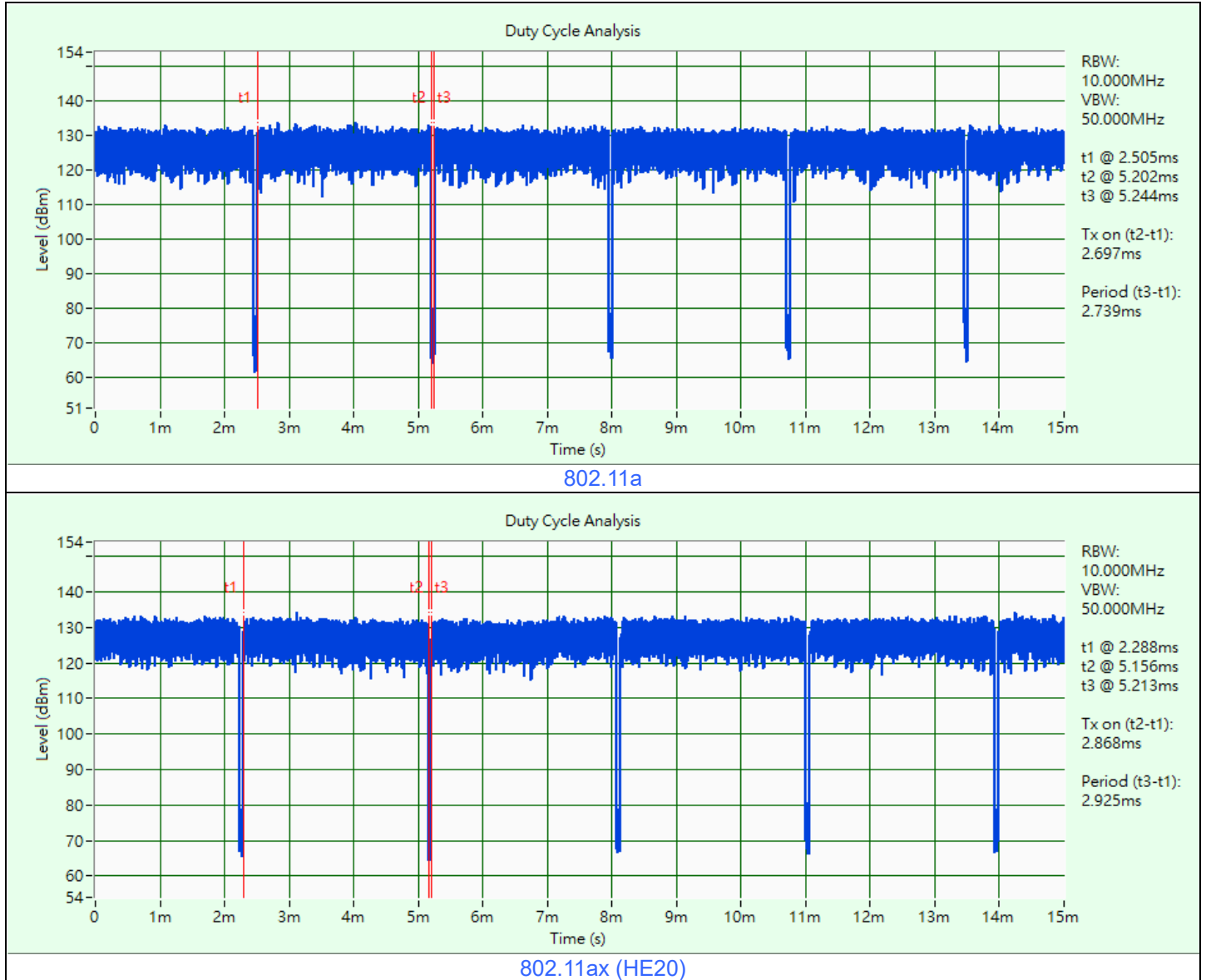
802.11a: Duty cycle = 2.697 ms / 2.739 ms x 100% = 98.5%

802.11ax (HE20): Duty cycle = 2.868 ms / 2.925 ms x 100% = 98.1%

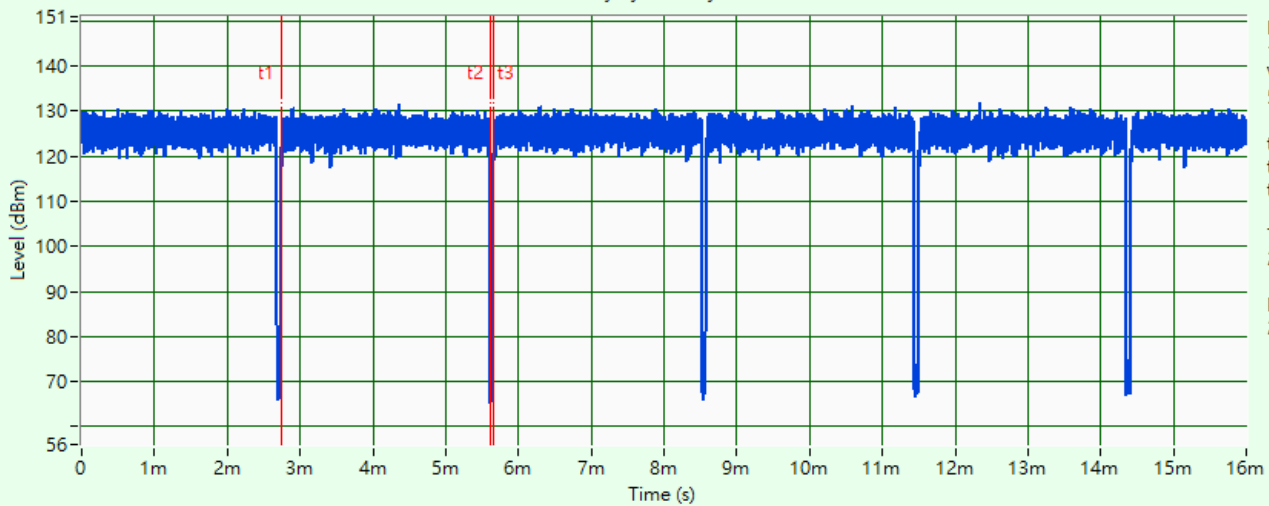
802.11ax (HE40): Duty cycle = 2.861 ms / 2.917 ms x 100% = 98.1%

802.11ax (HE80): Duty cycle = 3.401 ms / 3.456 ms x 100% = 98.4%

802.11ax (HE160): Duty cycle = 2.847 ms / 2.903 ms x 100% = 98.1%

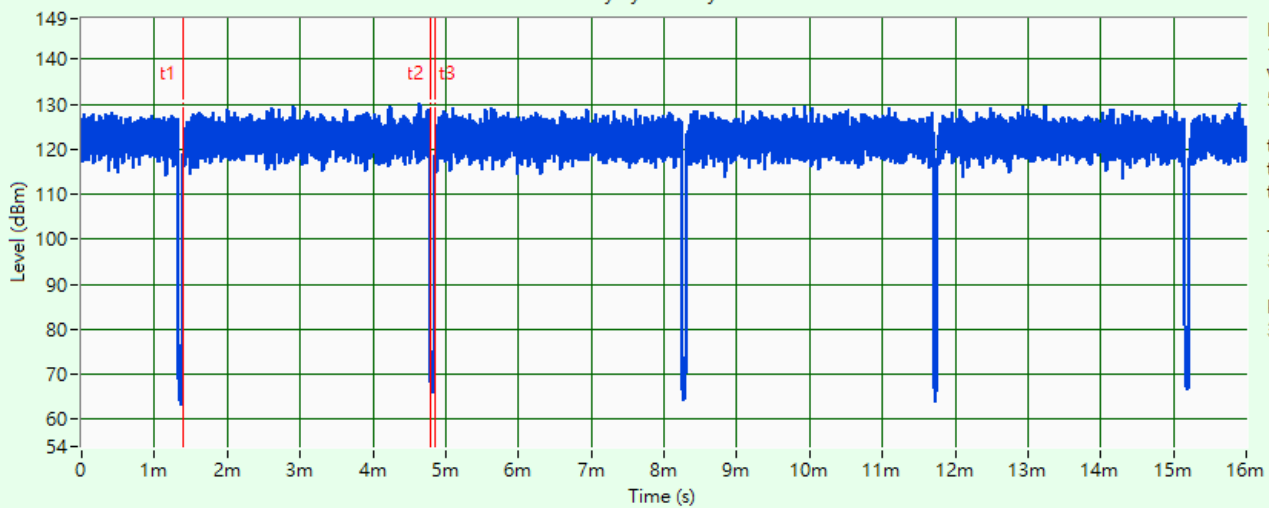


Duty Cycle Analysis



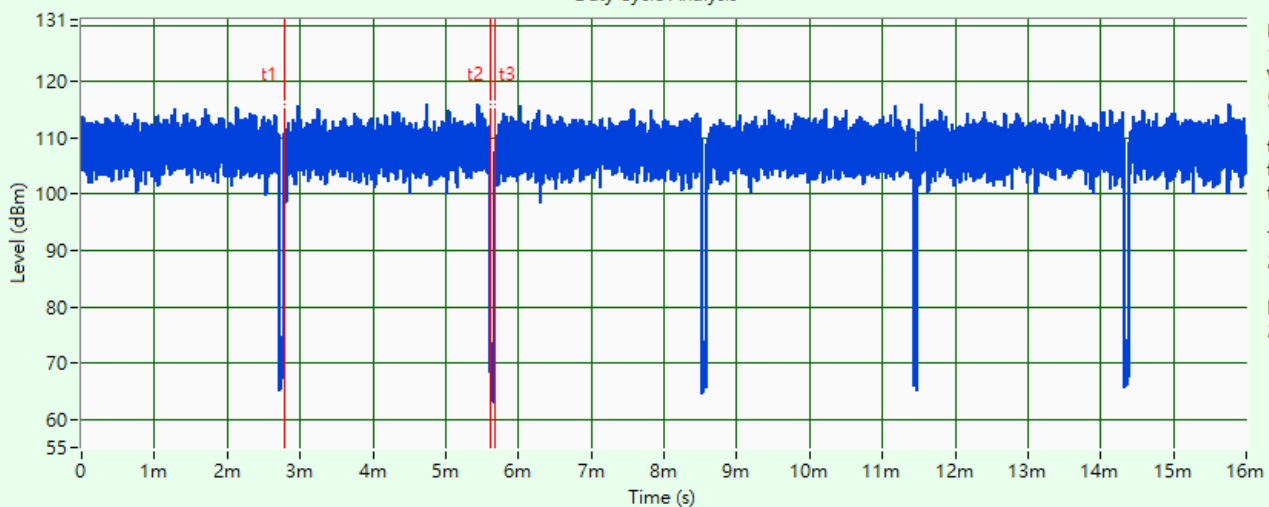
802.11ax (HE40)

Duty Cycle Analysis



802.11ax (HE80)

Duty Cycle Analysis

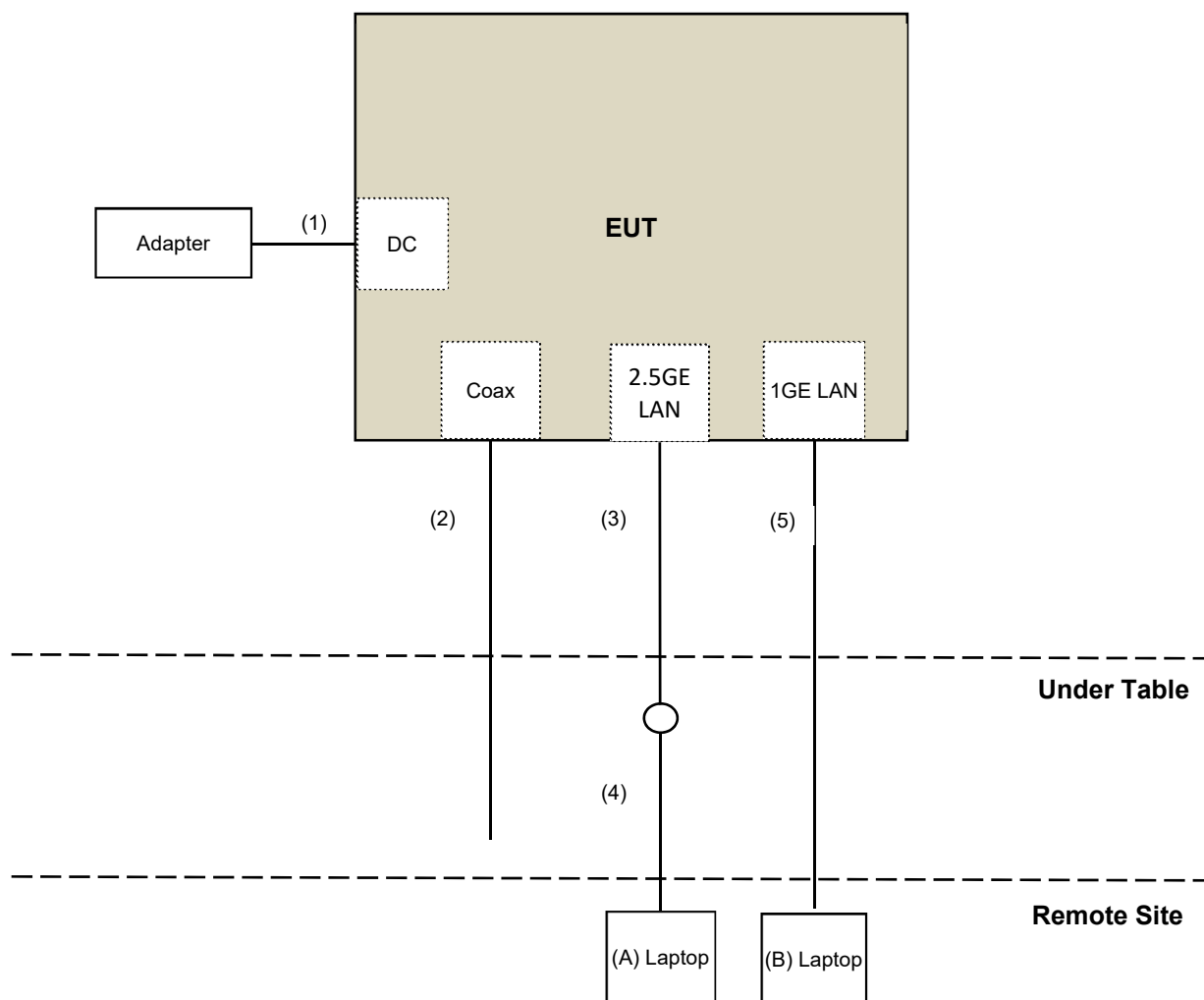


802.11ax (HE160)

3.6 Test Program Used and Operation Descriptions

Controlling software (QATool_Ulv2.88_DLLv6.93_ap_2022.01.04(V14)c) 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	Lenovo	20U5S01X00 L14	PF-1ANPYA	N/A	Provided by Lab
B	Laptop	DELL	E6420	H62T3R1	DoC	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	Coaxial Cable	1	10	Yes	0	Provided by Lab
3	RJ-45 Cable	1	3	No	0	Supplied by applicant
4	RJ-45 Cable	1	10	No	0	Provided by Lab
5	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
MXA Signal Analyzer Keysight	N9020B	MY60112408	2024/3/7	2025/3/6
Software	ADT_RF Test Software V7.6.5.4	N/A	N/A	N/A

Notes:

1. The test was performed in Oven room 2.
2. Tested Date: 2024/11/1 ~ 2024/11/2

4.2 RF Output Power

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
MXA Signal Analyzer Keysight	N9020B	MY60112408	2024/3/7	2025/3/6
Pulse Power Sensor Anritsu	MA2411B	1726434	2024/6/7	2025/6/6
RF Power Meter Anritsu	ML2495A	1529002	2024/6/7	2025/6/6
Software	ADT_RF Test Software V7.6.5.4	N/A	N/A	N/A

Notes:

1. The test was performed in Oven room 2.
2. Tested Date: 2024/11/1 ~ 2024/11/2

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	2023/10/20	2024/10/19
EMI Test Receiver R&S	ESCS 30	100375	2024/5/20	2025/5/19
Fixed Attenuator STI	STI02-2200-10	005	2024/2/19	2025/2/18
LISN R&S	ESH3-Z5	835239/001	2024/4/3	2025/4/2
		848773/004	2024/10/7	2025/10/6
RF Coaxial Cable JYEBAO	5D-FB	COCCAB-001	2024/2/19	2025/2/18
Software BVADT	BVADT_Conc_V7.3.7.4	N/A	N/A	N/A

Notes:

1. The test was performed in Conduction 1
2. Tested Date: 2024/10/11

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	2023/10/12	2024/10/11
Boresight Antenna Tower & Turn Table Max-Full	MF-7802BS	MF780208530	N/A	N/A
EMI Test Receiver R&S	ESR7	102026	2024/3/25	2025/3/24
Fixed Attenuator Mini-Circuits	UNAT-5+	PAD-ATT5-02	2024/3/30	2025/3/29
Loop Antenna TESEQ	HLA 6121	63620	2023/10/13	2024/10/12
Preamplifier EMCI	EMC330N	980538	2024/3/30	2025/3/29
	EMC001340	980142	2024/2/19	2025/2/18
PXA Signal Analyzer Keysight	N9030B	MY57141948	2024/5/20	2025/5/19
RF Coaxial Cable JYEBAO	5D-FB	LOOPCAB-001	2024/2/19	2025/2/18
		LOOPCAB-002	2024/2/19	2025/2/18
RF Coaxial Cable PEWC	8D	966-5-1	2024/3/30	2025/3/29
		966-5-2	2024/3/30	2025/3/29
		966-5-3	2024/3/30	2025/3/29
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: 2024/10/5

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	2024/3/25	2025/3/24
Horn Antenna Schwarzbeck	BBHA 9120D	9120D-1819	2023/11/12	2024/11/11
	BBHA 9170	9170-739	2023/11/12	2024/11/11
Preamplifier EMCI	EMC12630SE	980509	2024/1/29	2025/1/28
	EMC184045SE	980387	2024/8/8	2025/8/7
PXA Signal Analyzer Keysight	N9030B	MY57141948	2024/5/20	2025/5/19
RF Coaxial Cable EMCI	EMC102-KM-KM-1200	160924	2024/1/29	2025/1/28
	EMC102-KM-KM-4000	200214	2024/1/29	2025/1/28
	EMC104-SM-SM-1500	180503	2024/3/16	2025/3/15
	EMC104-SM-SM-2000	180501	2024/3/16	2025/3/15
	EMC104-SM-SM-6000	180506	2024/3/16	2025/3/15
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: 2024/9/23 ~ 2024/10/11

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 $\leq$ 125mW(21 dBm) at any elevation angle above 30 degrees as measured from the horizon)
	Fixed point-to-point Access Point	1 Watt (30 dBm)
	Indoor Access Point	1 Watt (30 dBm)
	Mobile and Portable client device	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 Point	
	Indoor Access Point	
	Mobile and Portable client device	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.		

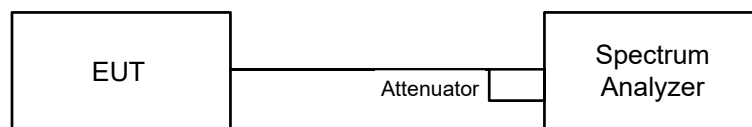
Note: The following formula is used to convert the equipment isotropic radiated power (eirp) to field strength:

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

6 Test Arrangements

6.1 26 dB Bandwidth

6.1.1 Test Setup

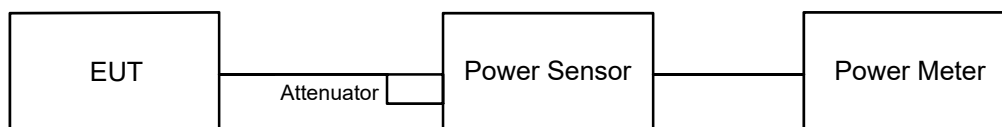


6.1.2 Test Procedure

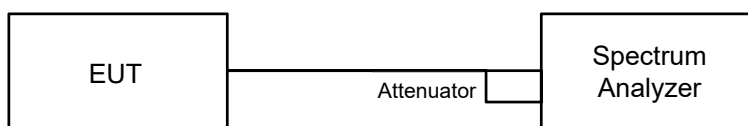
- Set RBW = approximately 1% of the emission bandwidth.
- Set the VBW > RBW.
- Detector = Peak.
- Trace mode = max hold.
- Measure the maximum width of the emission that is 26 dB down from the peak of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement 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:

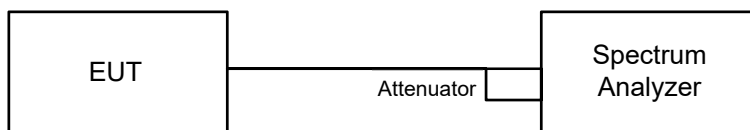
Method SA-1

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

- Set span to encompass the entire emission bandwidth (EBW) of the signal.
- Set RBW = 1 MHz, Set VBW $\geq$ 3 MHz, Detector = RMS
- Sweep points $\geq [2 \times \text{span} / \text{RBW}]$. (This gives bin-to-bin spacing $\leq \text{RBW} / 2$, so that narrowband signals are not lost between frequency bins.)
- Sweep time = auto, trigger set to “free run”.
- Trace average at least 100 traces in power averaging mode.
- Record the max value

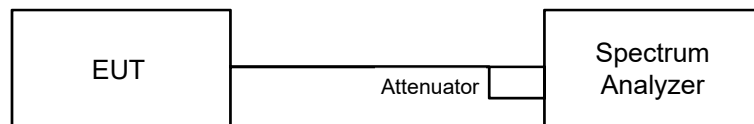
For specified measurement bandwidth 500 kHz:

Method SA-1

- Set span to encompass the entire emission bandwidth (EBW) of the signal.
- Set RBW = 300 kHz, Set VBW $\geq$ 1 MHz, Detector = RMS
- 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 $\text{BWCF} = 10\log(500 \text{ kHz}/300 \text{ kHz})$
- Sweep points $\geq [2 \times \text{span} / \text{RBW}]$. (This gives bin-to-bin spacing $\leq \text{RBW} / 2$, so that narrowband signals are not lost between frequency bins.)
- Sweep time = auto, trigger set to “free run”.
- Trace average at least 100 traces in power averaging mode.
- Record the max value

6.4 6 dB Bandwidth

6.4.1 Test Setup

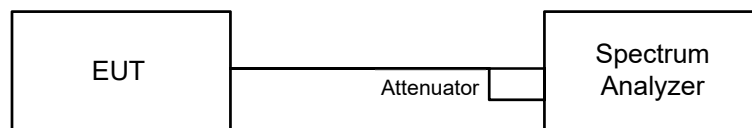


6.4.2 Test Procedure

- Set resolution bandwidth (RBW) = 100 kHz.
- Set the video bandwidth (VBW) $\geq 3 \times \text{RBW}$, Detector = Peak.
- Trace mode = max hold.
- Sweep = auto couple.
- 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

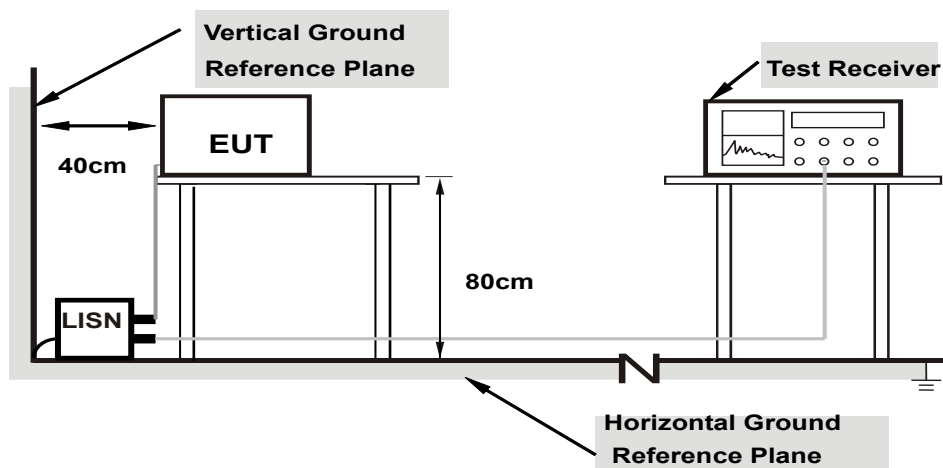


6.5.2 Test Procedure

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

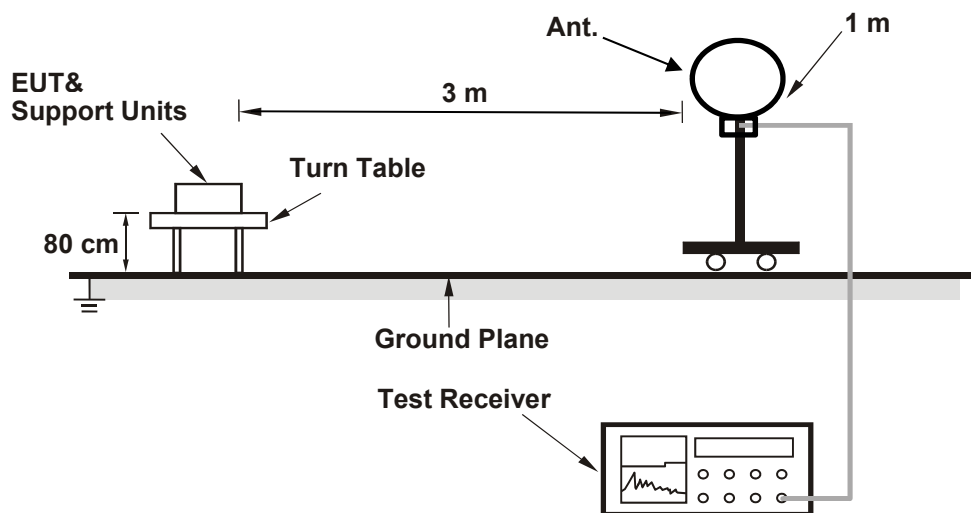
- The EUT was placed on a 0.8 meter to the top of table and placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The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

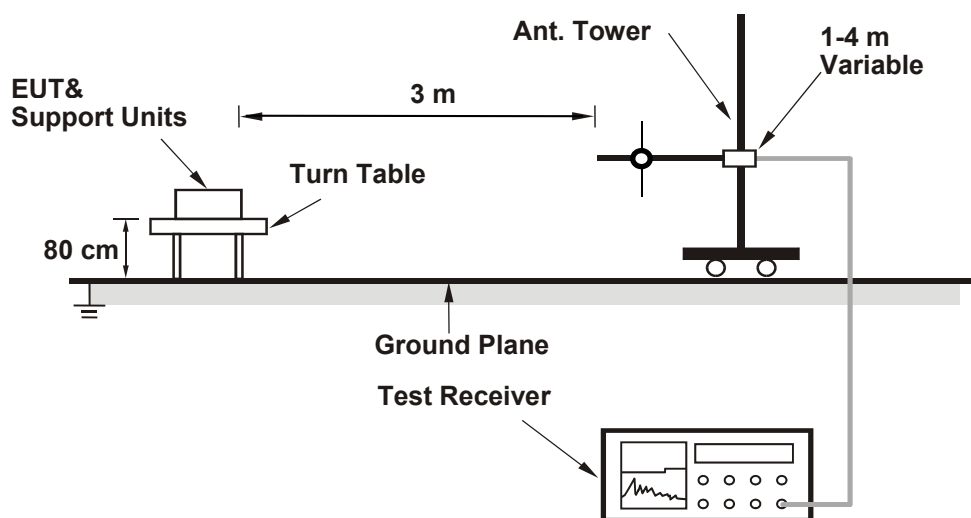
6.7 Unwanted Emissions below 1 GHz

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

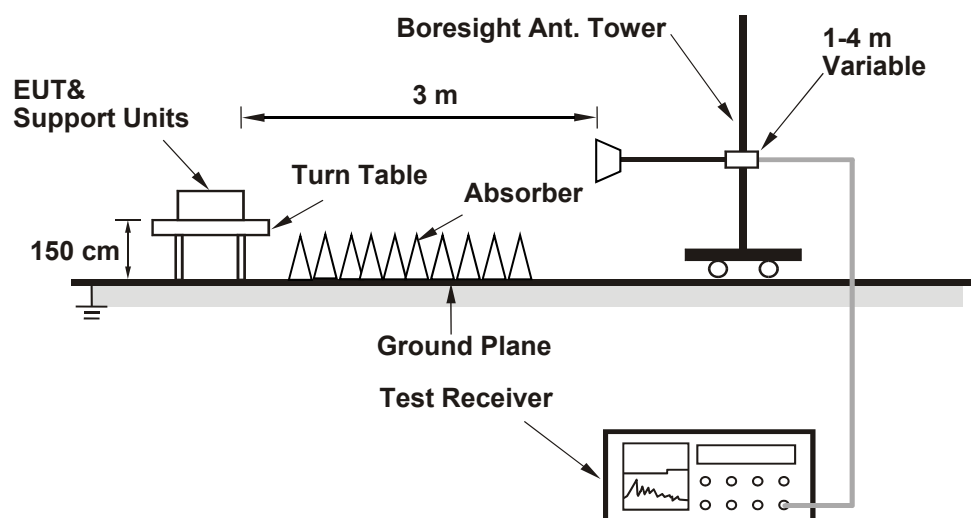
- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- a. 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.
- c. 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.
- d. 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

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

- 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.
- For fundamental and harmonic signal measurement, the resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is $\geq 1/T$ (Duty cycle $< 98\%$) or 10 Hz (Duty cycle $\geq 98\%$) for Average detection (AV) at frequency above 1 GHz.
- 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:	25°C, 60% RH	Tested By:	Willy Lin
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Mode A

802.11a

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
52	5260	19.87	19.66	19.64	19.73
60	5300	19.67	19.65	19.66	19.76
64	5320	19.86	19.70	19.60	19.61

Determined Output Power Limit					
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)		
52	5260	19.64	23.93	<	24
60	5300	19.65	23.93	<	24
64	5320	19.60	23.92	<	24

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

802.11ax (HE20)

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
52	5260	21.99	21.57	21.76	22.01
60	5300	21.49	22.01	21.65	22.00
64	5320	21.57	21.34	21.79	21.39

Determined Output Power Limit					
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)		
52	5260	21.57	24.33	>	24
60	5300	21.49	24.32	>	24
64	5320	21.34	24.29	>	24

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

802.11ax (HE40)

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
54	5270	39.77	39.63	39.66	39.65
62	5310	39.62	39.48	39.60	39.58

Determined Output Power Limit					
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)		
54	5270	39.63	26.98	>	24
62	5310	39.48	26.96	>	24

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

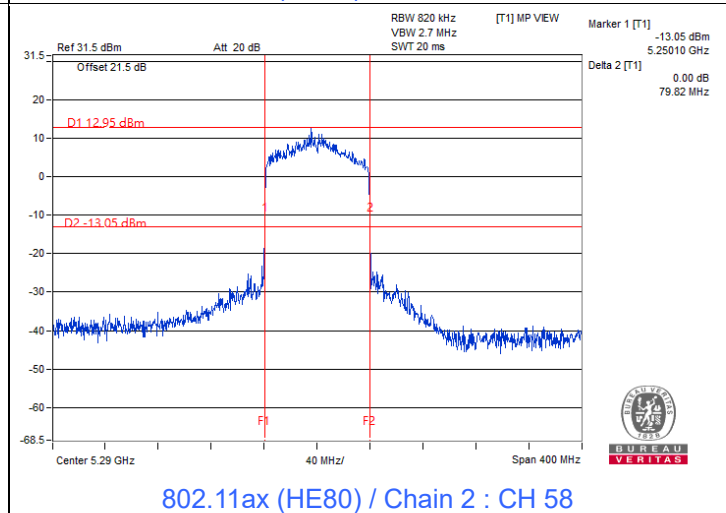
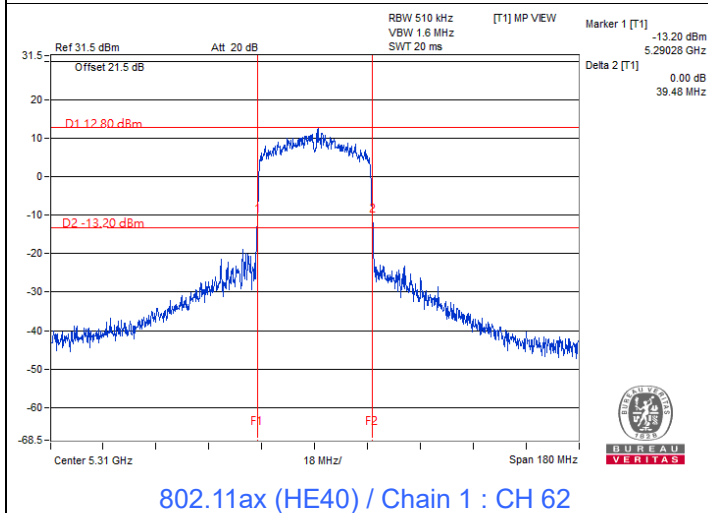
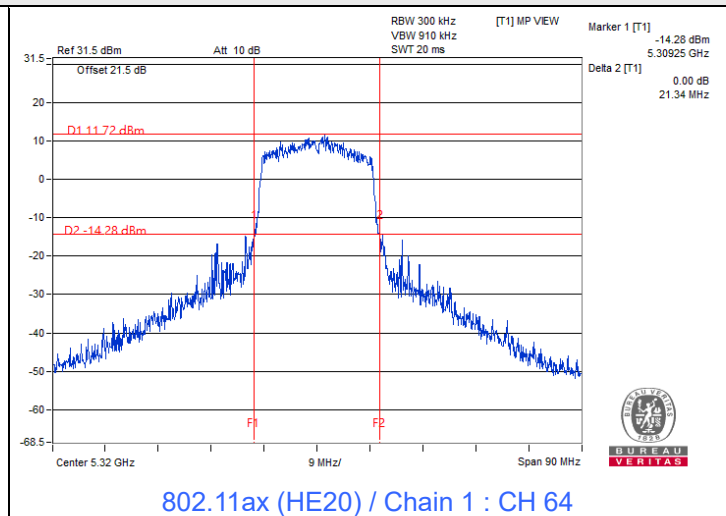
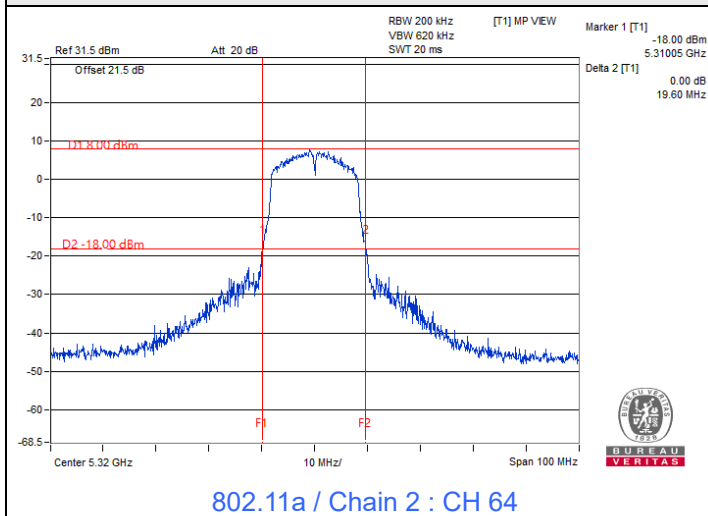
802.11ax (HE80)

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
58	5290	80.02	80.13	79.82	80.14

Determined Output Power Limit					
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)		
58	5290	79.82	30.02	>	24

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

Spectrum Plot of Minimum Value



Input Power:	120 Vac, 60 Hz	Environmental Conditions:	25°C, 65% RH	Tested By:	Katina Lu
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Mode B

802.11a

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
52	5260	19.54	19.70	19.47	19.57
60	5300	19.54	19.62	19.43	19.54
64	5320	19.55	19.57	19.50	19.52
100	5500	19.58	19.42	19.45	19.74
116	5580	19.40	19.45	19.62	19.57
140	5700	19.82	19.41	19.29	19.47
144 (U-NII-2C)	5720	14.89	14.82	14.82	14.86
144 (U-NII-3)	5720	4.77	4.53	4.72	4.66

Determined Output Power Limit					
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)		
52	5260	19.47	23.89	<	24
60	5300	19.43	23.88	<	24
64	5320	19.50	23.9	<	24
100	5500	19.42	23.88	<	24
116	5580	19.40	23.87	<	24
140	5700	19.29	23.85	<	24
144 (U-NII-2C)	5720	14.82	22.7	<	24

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

802.11ax (HE20)

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
52	5260	21.89	21.33	22.15	21.77
60	5300	21.67	21.24	21.89	21.54
64	5320	21.89	21.25	22.04	22.38
100	5500	21.63	22.44	21.50	22.06
116	5580	21.56	21.80	21.76	21.45
140	5700	21.33	21.30	21.09	21.63
144 (U-NII-2C)	5720	16.52	15.64	15.75	15.83
144 (U-NII-3)	5720	5.81	5.81	5.73	5.94

Determined Output Power Limit					
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)		
52	5260	21.33	24.28	>	24
60	5300	21.24	24.27	>	24
64	5320	21.25	24.27	>	24
100	5500	21.50	24.32	>	24
116	5580	21.45	24.31	>	24
140	5700	21.09	24.24	>	24
144 (U-NII-2C)	5720	15.64	22.94	<	24

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

802.11ax (HE40)

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
54	5270	39.67	39.62	39.62	39.54
62	5310	39.52	39.58	39.78	39.59
102	5510	39.64	39.60	39.56	39.60
110	5550	39.58	39.60	39.58	39.64
134	5670	39.63	39.60	39.56	39.55
142 (U-NII-2C)	5710	34.86	34.91	34.87	34.88
142 (U-NII-3)	5710	4.77	4.75	4.72	4.77

Determined Output Power Limit					
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)		
54	5270	39.54	26.97	>	24
62	5310	39.52	26.96	>	24
102	5510	39.56	26.97	>	24
110	5550	39.58	26.97	>	24
134	5670	39.55	26.97	>	24
142 (U-NII-2C)	5710	34.86	26.42	>	24

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

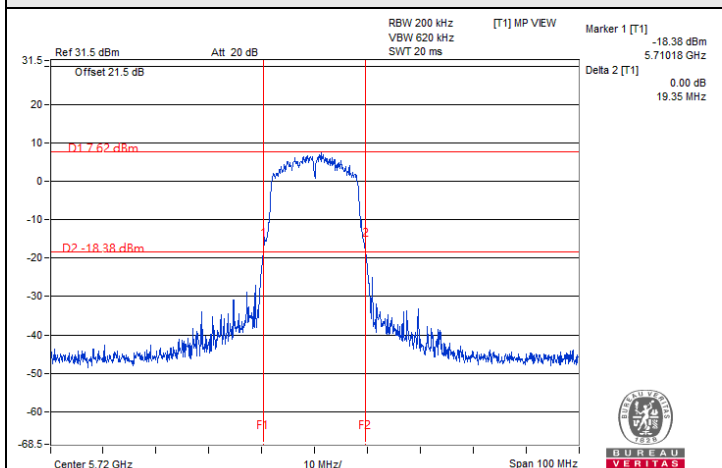
802.11ax (HE80)

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
58	5290	80.04	80.13	80.44	80.20
106	5530	80.21	80.06	80.31	80.18
122	5610	80.12	80.16	80.33	80.18
138 (U-NII-2C)	5690	75.14	75.08	75.11	75.09
138 (U-NII-3)	5690	4.90	4.88	4.88	4.89

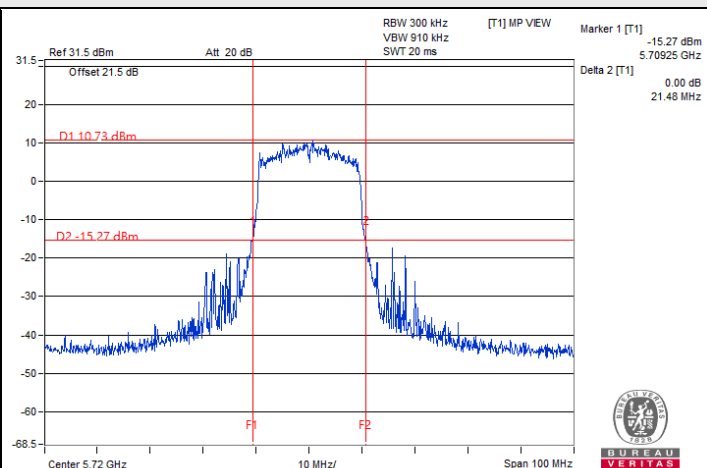
Determined Output Power Limit					
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)		
58	5290	80.04	30.03	>	24
106	5530	80.06	30.03	>	24
122	5610	80.12	30.03	>	24
138 (U-NII-2C)	5690	75.08	29.75	>	24

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

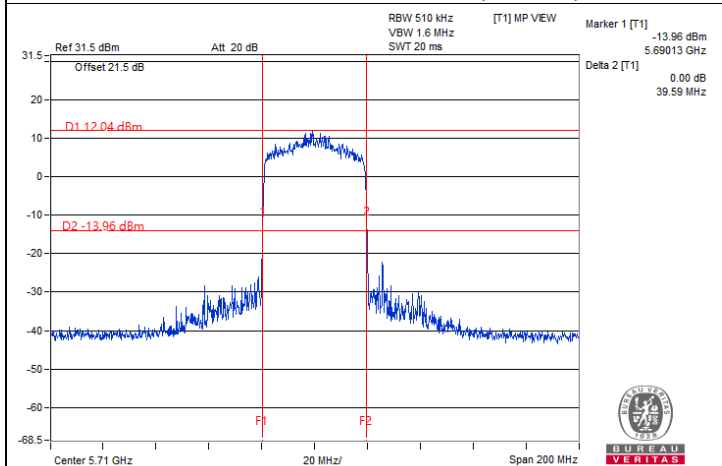
Spectrum Plot of Minimum Value



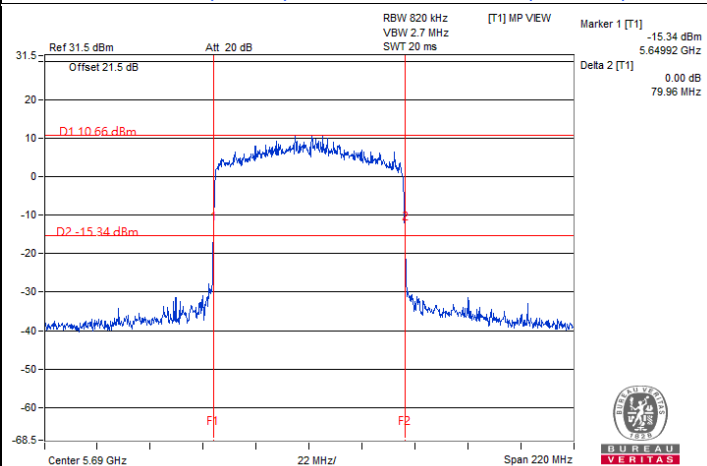
802.11a / Chain 1 : CH 144 (U-NII-3)



802.11ax (HE20) / Chain 2 : CH 144 (U-NII-3)



802.11ax (HE40) / Chain 2 : CH 142 (U-NII-3)



802.11ax (HE80) / Chain 1 : CH 138 (U-NII-3)

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

Input Power:	120 Vac, 60 Hz	Environmental Conditions:	25°C, 60% RH	Tested By:	Willy Lin
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Mode C

802.11a

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
100	5500	22.91	22.47	22.56	21.42
116	5580	21.33	20.67	20.40	20.25
140	5700	21.62	23.78	21.53	22.69
144 (U-NII-2C)	5720	15.33	15.55	15.30	14.72
144 (U-NII-3)	5720	5.54	5.41	5.44	4.99

Determined Output Power Limit					
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)		
100	5500	21.42	24.3	>	24
116	5580	20.25	24.06	>	24
140	5700	21.53	24.33	>	24
144 (U-NII-2C)	5720	14.72	22.67	<	24

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

802.11ax (HE20)

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
100	5500	22.27	23.16	23.86	22.49
116	5580	21.46	21.77	21.71	21.88
140	5700	23.82	21.79	22.55	21.87
144 (U-NII-2C)	5720	16.38	15.80	15.75	16.26
144 (U-NII-3)	5720	5.93	5.93	5.90	5.99

Determined Output Power Limit					
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)		
100	5500	22.27	24.47	>	24
116	5580	21.46	24.31	>	24
140	5700	21.79	24.38	>	24
144 (U-NII-2C)	5720	15.75	22.97	<	24

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

802.11ax (HE40)

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
102	5510	39.70	40.01	39.96	42.87
110	5550	39.75	39.77	39.79	39.82
134	5670	42.86	44.06	45.65	40.47
142 (U-NII-2C)	5710	34.92	34.95	35.01	35.02
142 (U-NII-3)	5710	4.91	4.95	4.94	4.94

Determined Output Power Limit					
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)		
102	5510	39.70	26.98	>	24
110	5550	39.75	26.99	>	24
134	5670	40.47	27.07	>	24
142 (U-NII-2C)	5710	34.92	26.43	>	24

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

802.11ax (HE80)

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
106	5530	80.40	80.82	80.49	80.71
122	5610	80.61	80.69	80.69	80.45
138 (U-NII-2C)	5690	75.29	75.24	75.35	75.22
138 (U-NII-3)	5690	5.25	5.34	5.16	5.13

Determined Output Power Limit					
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)		
106	5530	80.40	30.05	>	24
122	5610	80.45	30.05	>	24
138 (U-NII-2C)	5690	75.22	29.76	>	24

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

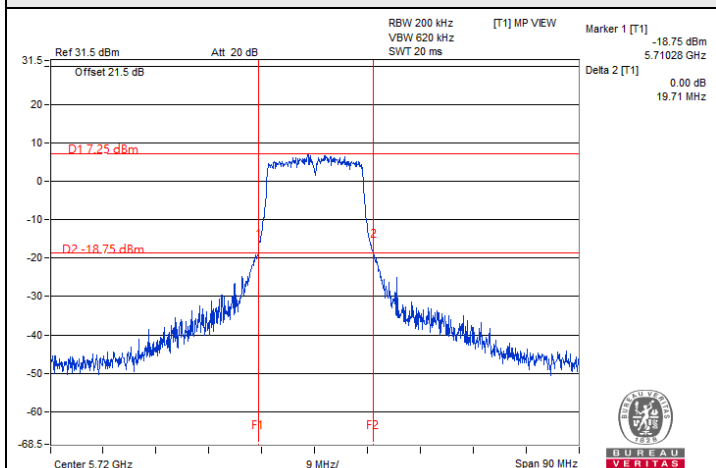
802.11ax (HE160)

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
114	5570	164.05	166.53	166.08	163.76

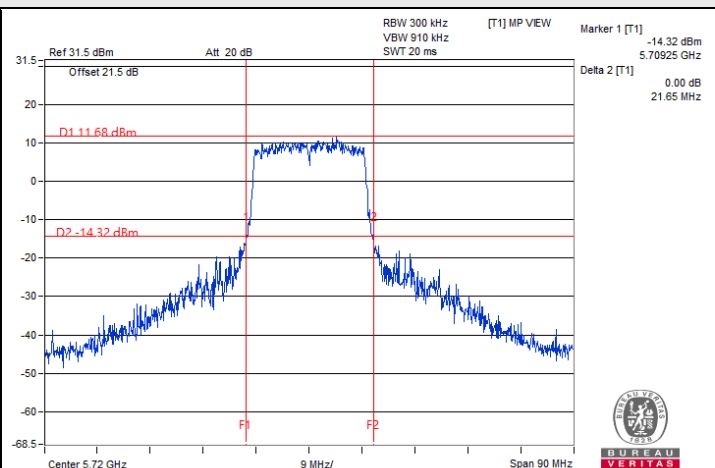
Determined Output Power Limit					
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)		
114	5570	163.76	33.14	>	24

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

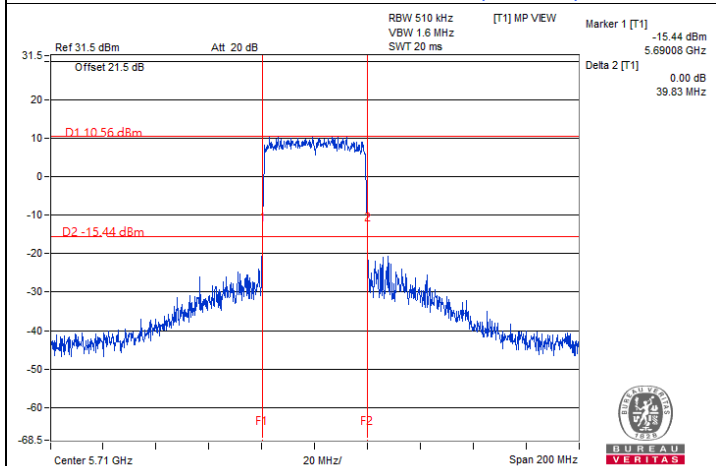
Spectrum Plot of Minimum Value



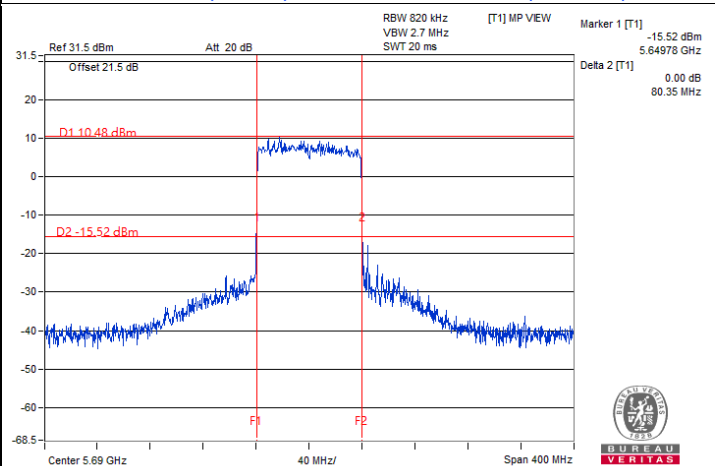
802.11a / Chain 3 : CH 144 (U-NII-3)



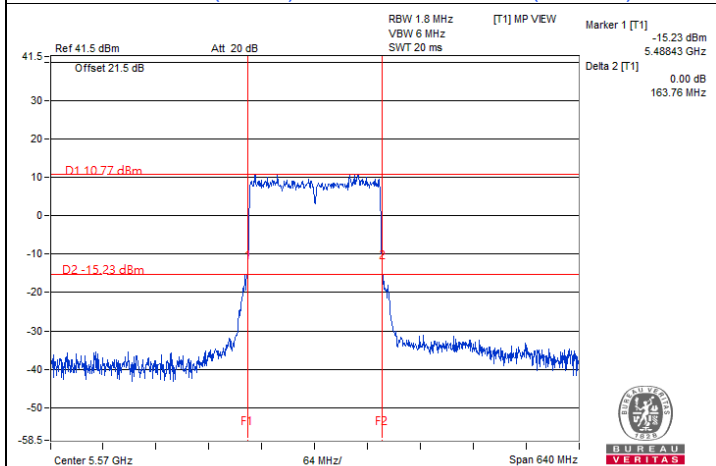
802.11ax (HE20) / Chain 2 : CH 144 (U-NII-3)



802.11ax (HE40) / Chain 0 : CH 142 (U-NII-3)



802.11ax (HE80) / Chain 3 : CH 138 (U-NII-3)



802.11ax (HE160) / Chain 3 : CH 114

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

7.2 RF Output Power

Input Power:	120 Vac, 60 Hz	Environmental Conditions:	25°C, 60% RH	Tested By:	Willy Lin
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Mode A

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	22.10	21.65	22.50	22.64	669.881	28.26	30	Pass
40	5200	23.86	23.51	23.94	24.25	981.423	29.92	30	Pass
48	5240	23.87	23.22	23.95	23.86	945.209	29.76	30	Pass
52	5260	17.75	17.54	18.13	18.16	246.797	23.92	23.93	Pass
60	5300	17.76	17.66	18.12	18.03	246.445	23.92	23.93	Pass
64	5320	17.86	17.44	18.11	18.09	245.688	23.90	23.92	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. For U-NII-1, the maximum gain is 4.61 dBi < 6 dBi, so the output power limit shall not be reduced.
3. For U-NII-2A, the maximum gain is 4.02 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	20.92	20.69	21.22	20.91	496.559	26.96	30	Pass
40	5200	23.69	23.37	23.84	23.68	926.603	29.67	30	Pass
48	5240	23.67	23.36	23.76	23.75	924.401	29.66	30	Pass
52	5260	17.69	17.27	18.03	17.97	238.277	23.77	24	Pass
60	5300	17.74	17.32	17.98	18.02	239.573	23.79	24	Pass
64	5320	17.66	17.30	17.92	17.99	236.942	23.75	24	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. For U-NII-1, the maximum gain is 4.61 dBi < 6 dBi, so the output power limit shall not be reduced.
3. For U-NII-2A, the maximum gain is 4.02 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	20.03	20.01	20.54	20.64	430.041	26.34	30	Pass
46	5230	23.66	22.99	23.59	23.65	891.64	29.50	30	Pass
54	5270	17.54	17.20	17.92	17.83	231.853	23.65	24	Pass
62	5310	17.60	17.42	17.96	17.77	235.11	23.71	24	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. For U-NII-1, the maximum gain is 4.61 dBi < 6 dBi, so the output power limit shall not be reduced.
3. For U-NII-2A, the maximum gain is 4.02 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	18.65	18.13	18.85	18.45	285.016	24.55	30	Pass
58	5290	17.65	17.75	17.84	17.65	236.8	23.74	24	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. For U-NII-1, the maximum gain is 4.61 dBi < 6 dBi, so the output power limit shall not be reduced.
3. For U-NII-2A, the maximum gain is 4.02 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11ax (HE20) 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	21.02	20.77	21.32	21.09	509.92	27.08	30	Pass
40	5200	23.84	23.51	23.96	23.88	959.72	29.82	30	Pass
48	5240	23.85	23.54	23.96	23.85	960.151	29.82	30	Pass
52	5260	17.86	17.45	18.19	18.13	247.615	23.94	24	Pass
60	5300	17.89	17.51	18.16	18.16	248.809	23.96	24	Pass
64	5320	17.85	17.46	18.06	18.12	245.509	23.90	24	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. For U-NII-1, the maximum gain is 4.61 dBi < 6 dBi, so the output power limit shall not be reduced.
3. For U-NII-2A, the maximum gain is 4.02 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11ax (HE40) 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	20.13	20.17	20.95	20.82	452.263	26.55	30	Pass
46	5230	23.86	23.22	23.84	23.95	943.531	29.75	30	Pass
54	5270	17.81	17.46	18.12	18.05	244.803	23.89	24	Pass
62	5310	17.88	17.66	18.17	18.02	248.722	23.96	24	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. For U-NII-1, the maximum gain is 4.61 dBi < 6 dBi, so the output power limit shall not be reduced.
3. For U-NII-2A, the maximum gain is 4.02 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11ax (HE80) 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	18.73	18.24	18.95	18.63	292.795	24.67	30	Pass
58	5290	17.98	17.86	17.97	17.85	247.515	23.94	24	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. For U-NII-1, the maximum gain is 4.61 dBi < 6 dBi, so the output power limit shall not be reduced.
3. For U-NII-2A, the maximum gain is 4.02 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	20.77	20.55	21.07	20.79	480.788	26.82	30	Pass
40	5200	23.52	23.20	23.64	23.53	890.465	29.50	30	Pass
48	5240	23.52	23.21	23.62	23.61	894.076	29.51	30	Pass
52	5260	17.58	17.11	17.85	17.80	229.894	23.62	24	Pass
60	5300	17.59	17.17	17.84	17.86	231.439	23.64	24	Pass
64	5320	17.51	17.17	17.76	17.84	229	23.60	24	Pass

Notes:

1. Directional gain is the measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
2. For U-NII-1, the directional gain is 5.58 dBi < 6 dBi, so the output power limit shall not be reduced.
3. For U-NII-2A, the directional gain is 5.81 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	19.89	19.90	20.37	20.52	416.835	26.20	30	Pass
46	5230	23.54	22.81	23.48	23.45	861.082	29.35	30	Pass
54	5270	17.39	17.07	17.81	17.71	225.176	23.53	24	Pass
62	5310	17.42	17.31	17.82	17.61	227.245	23.56	24	Pass

Notes:

1. Directional gain is the measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
2. For U-NII-1, the directional gain is 5.58 dBi < 6 dBi, so the output power limit shall not be reduced.
3. For U-NII-2A, the directional gain is 5.81 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	18.47	18.00	18.74	18.33	276.297	24.41	30	Pass
58	5290	17.49	17.59	17.68	17.54	228.885	23.60	24	Pass

Notes:

1. Directional gain is the measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
2. For U-NII-1, the directional gain is 5.58 dBi < 6 dBi, so the output power limit shall not be reduced.
3. For U-NII-2A, the directional gain is 5.81 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11ax (HE20) 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	20.83	20.62	21.15	20.99	492.325	26.92	30	Pass
40	5200	23.68	23.38	23.86	23.77	932.569	29.70	30	Pass
48	5240	23.68	23.34	23.79	23.71	923.415	29.65	30	Pass
52	5260	17.71	17.31	18.06	17.97	239.482	23.79	24	Pass
60	5300	17.78	17.35	18.04	18.04	241.663	23.83	24	Pass
64	5320	17.71	17.27	17.91	17.97	236.817	23.74	24	Pass

Notes:

1. Directional gain is the measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
2. For U-NII-1, the directional gain is 5.58 dBi < 6 dBi, so the output power limit shall not be reduced.
3. For U-NII-2A, the directional gain is 5.81 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11ax (HE40) 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	20.02	20.07	20.85	20.63	439.316	26.43	30	Pass
46	5230	23.74	23.11	23.68	23.84	916.685	29.62	30	Pass
54	5270	17.62	17.29	17.96	17.89	235.424	23.72	24	Pass
62	5310	17.76	17.46	18.00	17.92	240.462	23.81	24	Pass

Notes:

1. Directional gain is the measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
2. For U-NII-1, the directional gain is 5.58 dBi < 6 dBi, so the output power limit shall not be reduced.
3. For U-NII-2A, the directional gain is 5.81 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11ax (HE80) 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	18.62	18.13	18.75	18.45	282.765	24.51	30	Pass
58	5290	17.80	17.66	17.79	17.68	237.332	23.75	24	Pass

Notes:

1. Directional gain is the measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
2. For U-NII-1, the directional gain is 5.58 dBi < 6 dBi, so the output power limit shall not be reduced.
3. For U-NII-2A, the directional gain is 5.81 dBi < 6 dBi, so the output power limit shall not be reduced.

Input Power:	120 Vac, 60 Hz	Environmental Conditions:	25°C, 65% RH	Tested By:	Katina Lu
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Mode B

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	24.12	23.89	23.69	23.91	983.053	29.93	30	Pass
40	5200	24.10	23.91	23.75	23.84	982.317	29.92	30	Pass
48	5240	24.15	23.96	23.77	23.88	991.477	29.96	30	Pass
52	5260	17.96	17.95	17.66	17.69	241.984	23.84	23.89	Pass
60	5300	17.98	17.96	17.68	17.75	243.503	23.87	23.88	Pass
64	5320	17.99	17.95	17.65	17.77	243.376	23.86	23.9	Pass
100	5500	17.95	17.98	17.64	17.76	242.959	23.86	23.88	Pass
116	5580	17.96	17.95	17.62	17.71	241.72	23.83	23.87	Pass
140	5700	17.96	17.89	17.64	17.74	241.541	23.83	23.85	Pass
*144 (U-NII-2C)	5720	16.77	16.57	16.52	16.69	184.468	22.66	22.7	Pass
*144 (U-NII-3)	5720	8.74	8.04	8.19	7.86	26.551	14.24	30	Pass
149	5745	24.16	23.89	23.70	23.95	988.258	29.95	30	Pass
157	5785	24.11	23.84	23.78	23.96	987.402	29.94	30	Pass
165	5825	24.15	23.85	23.79	23.94	989.751	29.96	30	Pass

Notes:

- * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.
- Directional gain is the maximum gain of antennas.
- For U-NII-1, the maximum gain is 4.61 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the maximum gain is 4.02 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the maximum gain is 4.65 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the maximum gain is 4.27 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	22.16	22.05	22.11	22.23	654.426	28.16	30	Pass
40	5200	23.94	23.69	23.67	23.73	950.483	29.78	30	Pass
48	5240	23.96	23.66	23.69	23.79	954.375	29.80	30	Pass
52	5260	17.76	17.68	17.64	17.77	236.235	23.73	24	Pass
60	5300	17.82	17.70	17.59	17.76	236.534	23.74	24	Pass
64	5320	17.83	17.73	17.56	17.70	235.867	23.73	24	Pass
100	5500	17.77	17.73	17.65	17.78	237.323	23.75	24	Pass
116	5580	17.80	17.67	17.53	17.77	235.2	23.71	24	Pass
140	5700	17.81	17.63	17.54	17.75	234.658	23.70	24	Pass
*144 (U-NII-2C)	5720	16.90	16.35	16.75	16.80	187.308	22.73	22.94	Pass
*144 (U-NII-3)	5720	9.12	8.81	8.68	9.01	31.11	14.93	30	Pass
149	5745	23.97	23.70	23.77	23.75	959.252	29.82	30	Pass
157	5785	23.97	23.72	23.81	23.66	957.674	29.81	30	Pass
165	5825	24.03	23.66	23.77	23.64	954.642	29.80	30	Pass

Notes:

- * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.
- Directional gain is the maximum gain of antennas.
- For U-NII-1, the maximum gain is 4.61 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the maximum gain is 4.02 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the maximum gain is 4.65 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the maximum gain is 4.27 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	20.01	19.54	19.64	19.66	374.695	25.74	30	Pass
46	5230	23.94	23.62	23.64	24.00	960.282	29.82	30	Pass
54	5270	17.78	17.74	17.65	17.67	236.098	23.73	24	Pass
62	5310	17.87	17.72	17.55	17.74	236.706	23.74	24	Pass
102	5510	17.80	17.69	17.54	17.78	235.738	23.72	24	Pass
110	5550	17.76	17.55	17.53	17.70	232.097	23.66	24	Pass
134	5670	17.88	17.70	17.58	17.70	236.425	23.74	24	Pass
*142 (U-NII-2C)	5710	17.14	16.91	17.14	17.38	207.314	23.17	24	Pass
*142 (U-NII-3)	5710	3.39	3.26	3.64	4.05	9.154	9.62	30	Pass
151	5755	23.89	23.59	23.74	23.97	959.518	29.82	30	Pass
159	5795	23.92	23.58	23.74	23.98	961.265	29.83	30	Pass

Notes:

- * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.
- Directional gain is the maximum gain of antennas.
- For U-NII-1, the maximum gain is 4.61 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the maximum gain is 4.02 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the maximum gain is 4.65 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the maximum gain is 4.27 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	19.36	19.43	19.37	19.38	347.191	25.41	30	Pass
58	5290	17.12	17.01	17.21	17.54	211.113	23.25	24	Pass
106	5530	17.75	17.65	17.74	17.79	237.323	23.75	24	Pass
122	5610	17.84	17.69	17.74	17.77	238.833	23.78	24	Pass
*138 (U-NII-2C)	5690	16.94	16.61	16.75	16.91	191.651	22.83	24	Pass
*138 (U-NII-3)	5690	-0.45	0.00	-0.21	0.33	3.9333	5.95	30	Pass
155	5775	23.11	23.21	23.24	22.85	817.671	29.13	30	Pass

Notes:

- * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.
- Directional gain is the maximum gain of antennas.
- For U-NII-1, the maximum gain is 4.61 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the maximum gain is 4.02 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the maximum gain is 4.65 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the maximum gain is 4.27 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11ax (HE20) 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	22.40	22.38	22.46	22.54	702.433	28.47	30	Pass
40	5200	24.12	23.85	23.84	23.86	986.21	29.94	30	Pass
48	5240	24.10	23.86	23.81	23.94	988.438	29.95	30	Pass
52	5260	17.95	17.85	17.79	17.88	244.821	23.89	24	Pass
60	5300	17.96	17.86	17.75	17.89	244.695	23.89	24	Pass
64	5320	17.99	17.85	17.74	17.86	244.428	23.88	24	Pass
100	5500	17.97	17.84	17.76	17.97	245.84	23.91	24	Pass
116	5580	17.98	17.81	17.73	17.95	244.867	23.89	24	Pass
140	5700	17.95	17.82	17.65	17.94	243.348	23.86	24	Pass
*144 (U-NII-2C)	5720	17.06	16.73	16.68	17.07	195.405	22.91	22.94	Pass
*144 (U-NII-3)	5720	10.26	10.04	9.69	10.02	40.067	16.03	30	Pass
149	5745	24.15	23.87	23.94	23.89	996.446	29.98	30	Pass
157	5785	24.16	23.89	23.96	23.85	997.068	29.99	30	Pass
165	5825	24.15	23.85	23.94	23.84	992.522	29.97	30	Pass

Notes:

- * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.
- Directional gain is the maximum gain of antennas.
- For U-NII-1, the maximum gain is 4.61 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the maximum gain is 4.02 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the maximum gain is 4.65 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the maximum gain is 4.27 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11ax (HE40) 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	20.15	19.76	19.97	19.88	394.724	25.96	30	Pass
46	5230	24.05	23.74	23.75	24.12	986.053	29.94	30	Pass
54	5270	17.96	17.84	17.76	17.81	243.429	23.86	24	Pass
62	5310	17.97	17.85	17.73	17.85	243.861	23.87	24	Pass
102	5510	17.95	17.88	17.71	17.94	245	23.89	24	Pass
110	5550	17.90	17.75	17.70	17.83	240.784	23.82	24	Pass
134	5670	17.99	17.85	17.76	17.85	244.562	23.88	24	Pass
*142 (U-NII-2C)	5710	17.45	17.19	17.36	17.66	220.745	23.44	24	Pass
*142 (U-NII-3)	5710	5.75	5.62	5.30	5.81	14.605	11.65	30	Pass
151	5755	24.01	23.76	23.84	24.16	992.17	29.97	30	Pass
159	5795	24.05	23.74	23.85	24.11	990.982	29.96	30	Pass

Notes:

- * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.
- Directional gain is the maximum gain of antennas.
- For U-NII-1, the maximum gain is 4.61 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the maximum gain is 4.02 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the maximum gain is 4.65 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the maximum gain is 4.27 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11ax (HE80) 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	19.50	19.61	19.52	19.53	359.816	25.56	30	Pass
58	5290	17.23	17.26	17.36	17.85	221.459	23.45	24	Pass
106	5530	17.91	17.84	17.86	17.96	246.227	23.91	24	Pass
122	5610	17.95	17.85	17.85	17.95	246.654	23.92	24	Pass
*138 (U-NII-2C)	5690	17.44	17.27	17.11	17.37	214.776	23.32	24	Pass
*138 (U-NII-3)	5690	0.76	0.90	0.76	0.95	4.857	6.86	30	Pass
155	5775	23.39	23.45	23.53	22.91	860.44	29.35	30	Pass

Notes:

- * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.
- Directional gain is the maximum gain of antennas.
- For U-NII-1, the maximum gain is 4.61 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the maximum gain is 4.02 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the maximum gain is 4.65 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the maximum gain is 4.27 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	22.00	21.85	22.00	22.08	631.523	28.00	30	Pass
40	5200	23.84	23.49	23.51	23.56	916.835	29.62	30	Pass
48	5240	23.78	23.51	23.57	23.66	922.953	29.65	30	Pass
52	5260	17.63	17.48	17.49	17.59	227.435	23.57	24	Pass
60	5300	17.65	17.56	17.42	17.57	227.582	23.57	24	Pass
64	5320	17.68	17.62	17.46	17.59	229.554	23.61	24	Pass
100	5500	17.67	17.54	17.46	17.60	228.496	23.59	24	Pass
116	5580	17.66	17.57	17.40	17.66	228.791	23.59	24	Pass
140	5700	17.67	17.50	17.42	17.62	227.73	23.57	24	Pass
*144 (U-NII-2C)	5720	16.90	16.35	16.75	16.80	187.308	22.73	22.94	Pass
*144 (U-NII-3)	5720	9.12	8.81	8.68	9.01	31.11	14.93	30	Pass
149	5745	23.83	23.57	23.62	23.63	929.875	29.68	30	Pass
157	5785	23.87	23.56	23.70	23.49	928.548	29.68	30	Pass
165	5825	23.91	23.54	23.61	23.47	923.926	29.66	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 5.58 dBi < 6 dBi, so the output power limit shall not be reduced.
4. For U-NII-2A, the directional gain is 5.81 dBi < 6 dBi, so the output power limit shall not be reduced.
5. For U-NII-2C, the directional gain is 5.7 dBi < 6 dBi, so the output power limit shall not be reduced.
6. For U-NII-3, the directional gain is 5.88 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	19.85	19.44	19.52	19.55	364.201	25.61	30	Pass
46	5230	23.75	23.47	23.49	23.80	922.709	29.65	30	Pass
54	5270	17.64	17.64	17.50	17.52	228.881	23.60	24	Pass
62	5310	17.70	17.53	17.38	17.62	228.019	23.58	24	Pass
102	5510	17.61	17.52	17.35	17.60	226.039	23.54	24	Pass
110	5550	17.63	17.38	17.35	17.50	223.204	23.49	24	Pass
134	5670	17.71	17.55	17.43	17.51	227.604	23.57	24	Pass
*142 (U-NII-2C)	5710	17.14	16.91	17.14	17.38	207.314	23.17	24	Pass
*142 (U-NII-3)	5710	3.39	3.26	3.64	4.05	9.154	9.62	30	Pass
151	5755	23.70	23.48	23.60	23.78	925.134	29.66	30	Pass
159	5795	23.78	23.48	23.63	23.85	934.96	29.71	30	Pass

Notes:

- * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.
- Directional gain is the measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
- For U-NII-1, the directional gain is 5.58 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the directional gain is 5.81 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the directional gain is 5.7 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the directional gain is 5.88 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	19.15	19.23	19.09	19.06	327.611	25.15	30	Pass
58	5290	17.01	16.85	17.10	17.40	204.892	23.12	24	Pass
106	5530	17.62	17.50	17.61	17.62	229.53	23.61	24	Pass
122	5610	17.72	17.57	17.61	17.65	232.191	23.66	24	Pass
*138 (U-NII-2C)	5690	16.94	16.61	16.75	16.91	191.651	22.83	24	Pass
*138 (U-NII-3)	5690	-0.45	0.00	-0.21	0.33	3.9333	5.95	30	Pass
155	5775	22.93	23.06	23.10	22.72	789.88	28.98	30	Pass

Notes:

- * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.
- Directional gain is the measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
- For U-NII-1, the directional gain is 5.58 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the directional gain is 5.81 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the directional gain is 5.7 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the directional gain is 5.88 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11ax (HE20) 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	22.29	22.21	22.35	22.37	680.15	28.33	30	Pass
40	5200	23.96	23.66	23.73	23.71	952.171	29.79	30	Pass
48	5240	23.96	23.66	23.68	23.81	954.941	29.80	30	Pass
52	5260	17.79	17.66	17.65	17.73	235.965	23.73	24	Pass
60	5300	17.85	17.73	17.60	17.75	237.356	23.75	24	Pass
64	5320	17.80	17.74	17.62	17.69	236.244	23.73	24	Pass
100	5500	17.84	17.72	17.60	17.79	237.631	23.76	24	Pass
116	5580	17.85	17.69	17.56	17.77	236.56	23.74	24	Pass
140	5700	17.84	17.69	17.54	17.75	235.883	23.73	24	Pass
*144 (U-NII-2C)	5720	17.06	16.73	16.68	17.07	195.405	22.91	22.94	Pass
*144 (U-NII-3)	5720	10.26	10.04	9.69	10.02	40.067	16.03	30	Pass
149	5745	23.96	23.73	23.84	23.70	961.459	29.83	30	Pass
157	5785	24.01	23.72	23.85	23.75	967.071	29.85	30	Pass
165	5825	23.99	23.70	23.79	23.71	959.329	29.82	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 5.58 dBi < 6 dBi, so the output power limit shall not be reduced.
4. For U-NII-2A, the directional gain is 5.81 dBi < 6 dBi, so the output power limit shall not be reduced.
5. For U-NII-2C, the directional gain is 5.7 dBi < 6 dBi, so the output power limit shall not be reduced.
6. For U-NII-3, the directional gain is 5.88 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11ax (HE40) 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	20.00	19.65	19.80	19.71	381.297	25.81	30	Pass
46	5230	23.93	23.58	23.61	24.00	956.01	29.80	30	Pass
54	5270	17.80	17.69	17.58	17.63	234.227	23.70	24	Pass
62	5310	17.82	17.65	17.62	17.66	234.899	23.71	24	Pass
102	5510	17.78	17.72	17.57	17.80	236.539	23.74	24	Pass
110	5550	17.72	17.55	17.54	17.64	230.872	23.63	24	Pass
134	5670	17.87	17.66	17.57	17.73	236.02	23.73	24	Pass
*142 (U-NII-2C)	5710	17.45	17.19	17.36	17.66	220.745	23.44	24	Pass
*142 (U-NII-3)	5710	5.75	5.62	5.30	5.81	14.605	11.65	30	Pass
151	5755	23.84	23.65	23.67	23.96	955.537	29.80	30	Pass
159	5795	23.93	23.58	23.66	23.92	954.084	29.80	30	Pass

Notes:

- * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.
- Directional gain is the measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
- For U-NII-1, the directional gain is 5.58 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the directional gain is 5.81 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the directional gain is 5.7 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the directional gain is 5.88 dBi < 6 dBi, so the output power limit shall not be reduced.

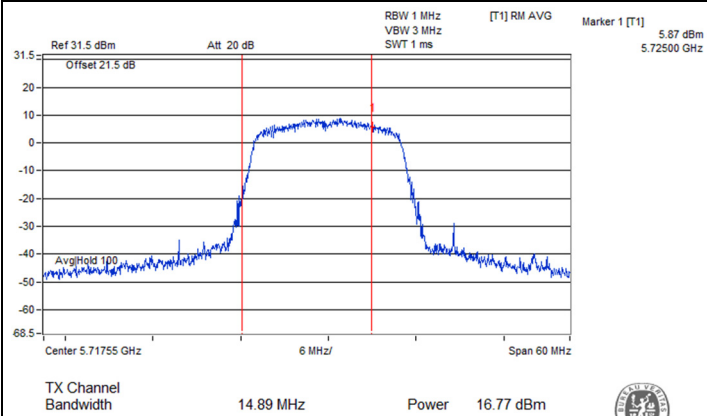
802.11ax (HE80) Beamforming

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	19.28	19.39	19.25	19.24	339.704	25.31	30	Pass
58	5290	17.08	17.11	17.25	17.68	214.157	23.31	24	Pass
106	5530	17.78	17.66	17.75	17.81	238.285	23.77	24	Pass
122	5610	17.76	17.73	17.67	17.79	237.592	23.76	24	Pass
*138 (U-NII-2C)	5690	17.44	17.27	17.11	17.37	214.776	23.32	24	Pass
*138 (U-NII-3)	5690	0.76	0.90	0.76	0.95	4.857	6.86	30	Pass
155	5775	23.22	23.27	23.34	22.80	828.539	29.18	30	Pass

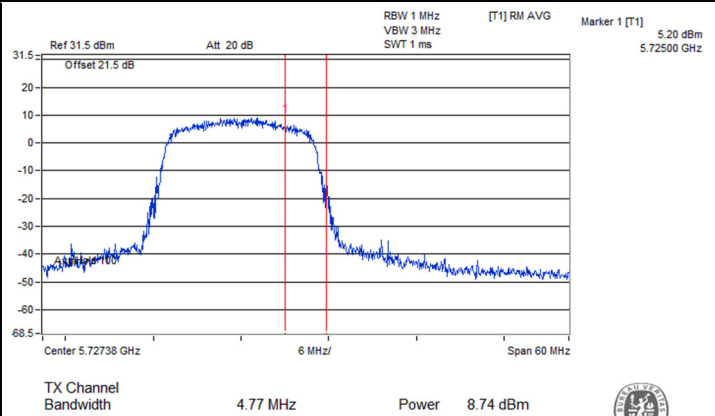
Notes:

- * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.
- Directional gain is the measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
- For U-NII-1, the directional gain is 5.58 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the directional gain is 5.81 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the directional gain is 5.7 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the directional gain is 5.88 dBi < 6 dBi, so the output power limit shall not be reduced.

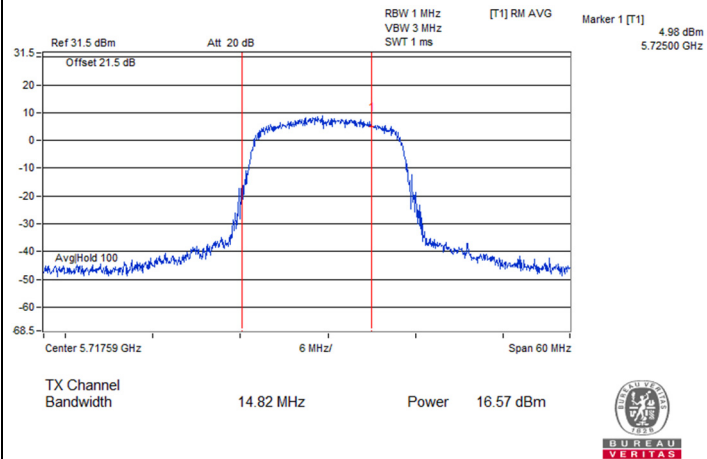
Spectrum Plot for channel straddling



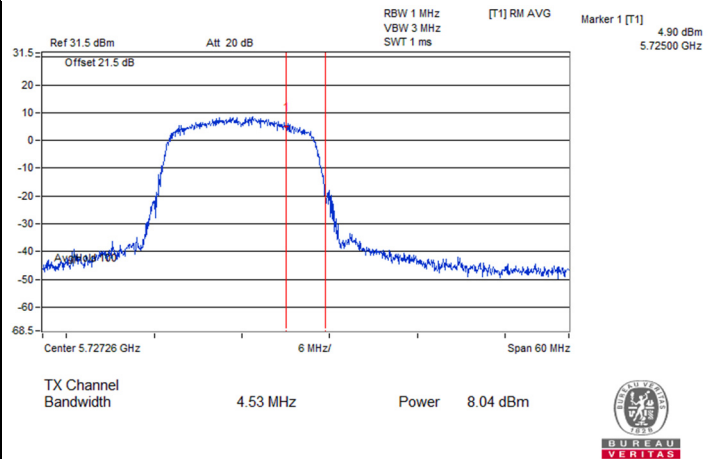
802.11a CDD / Chain 0 : CH 144 (U-NII-2C)



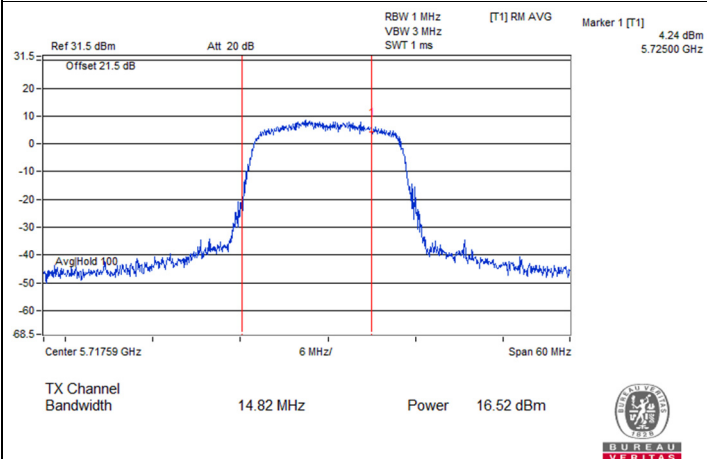
802.11a CDD / Chain 0 : CH 144 (U-NII-3)



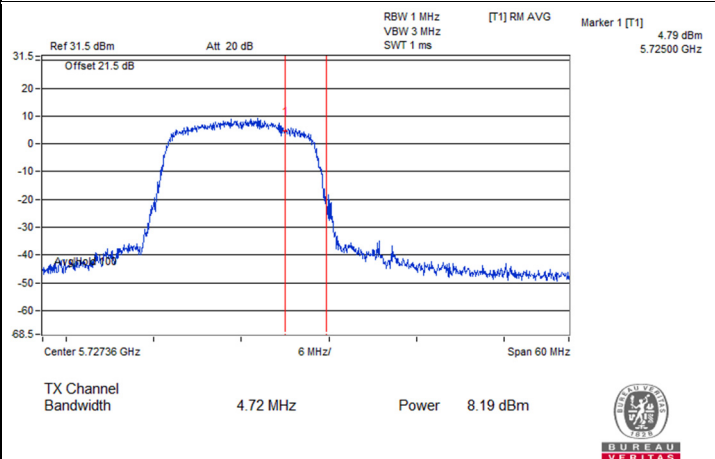
802.11a CDD / Chain 1 : CH 144 (U-NII-2C)



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

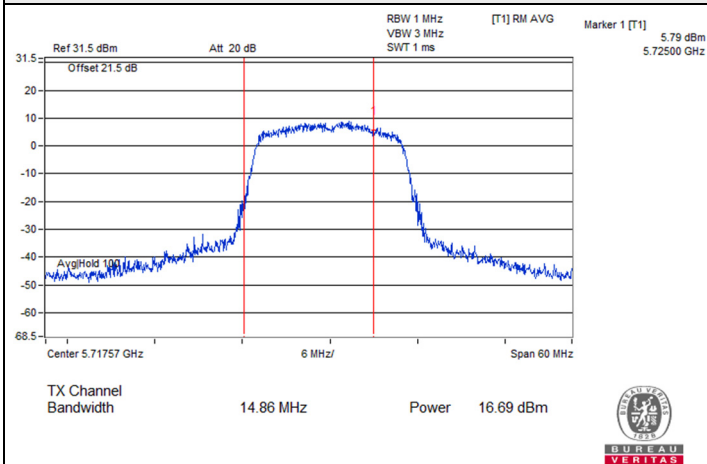


802.11a CDD / Chain 2 : CH 144 (U-NII-2C)

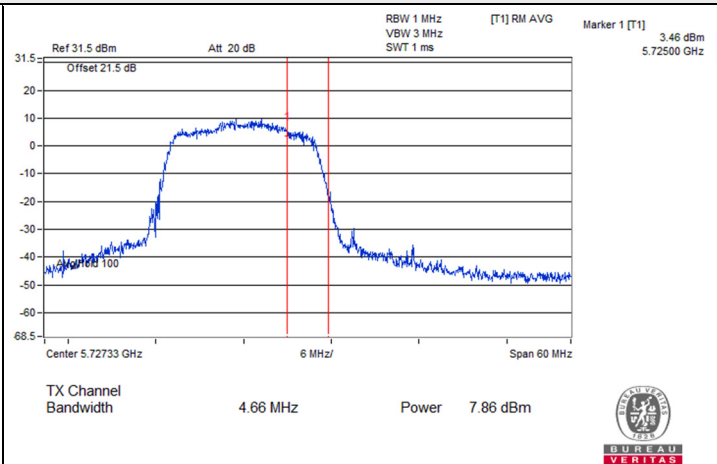


802.11a CDD / Chain 2 : CH 144 (U-NII-3)

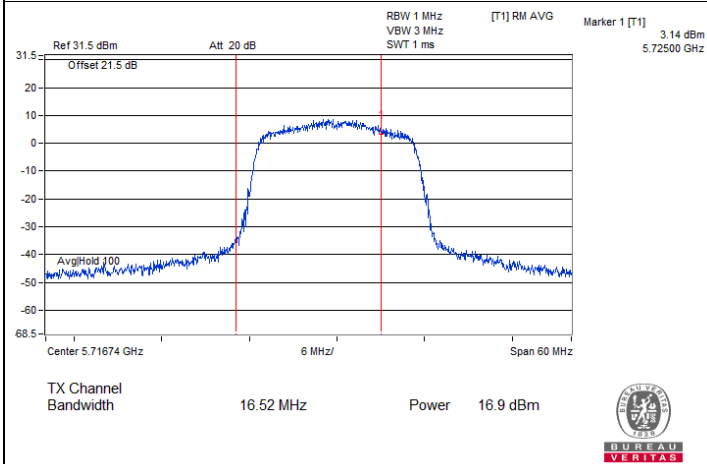
Spectrum Plot for channel straddling



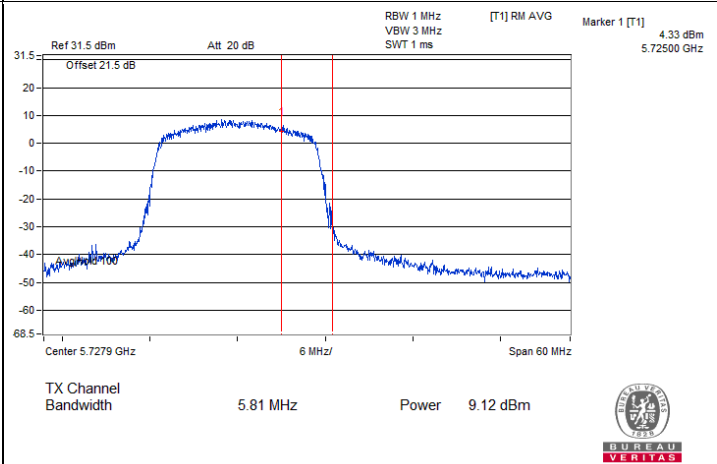
802.11a CDD / Chain 3 : CH 144 (U-NII-2C)



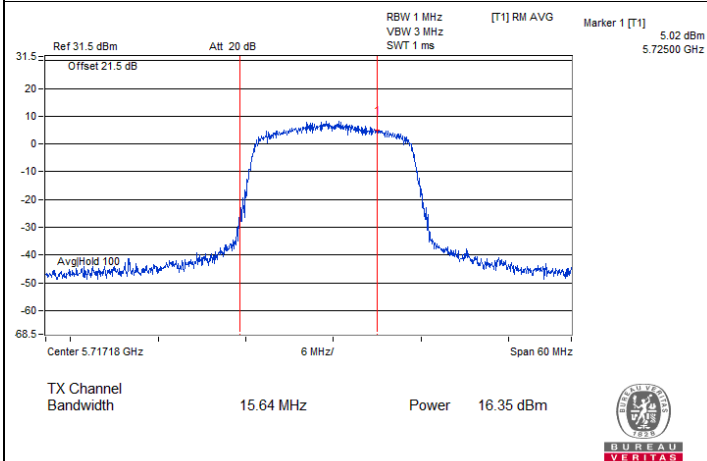
802.11a CDD / Chain 3 : CH 144 (U-NII-3)



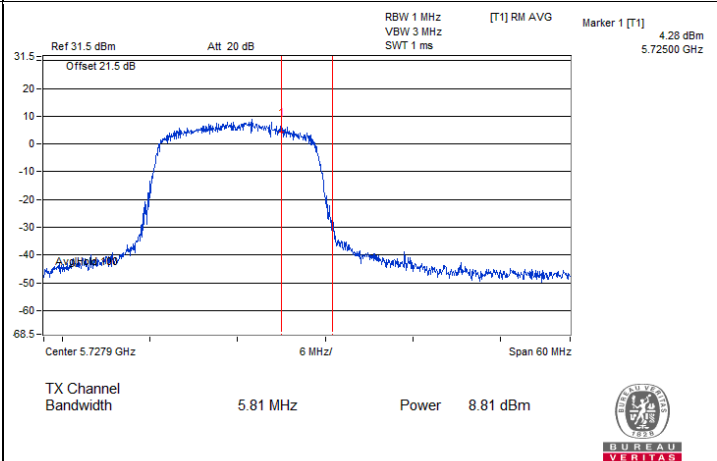
802.11ac (VHT20) CDD / Chain 0 : CH 144 (U-NII-2C)



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

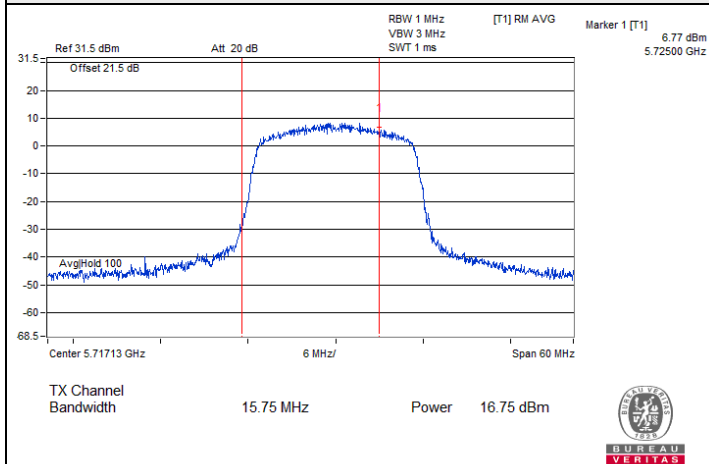


802.11ac (VHT20) CDD / Chain 1 : CH 144 (U-NII-2C)

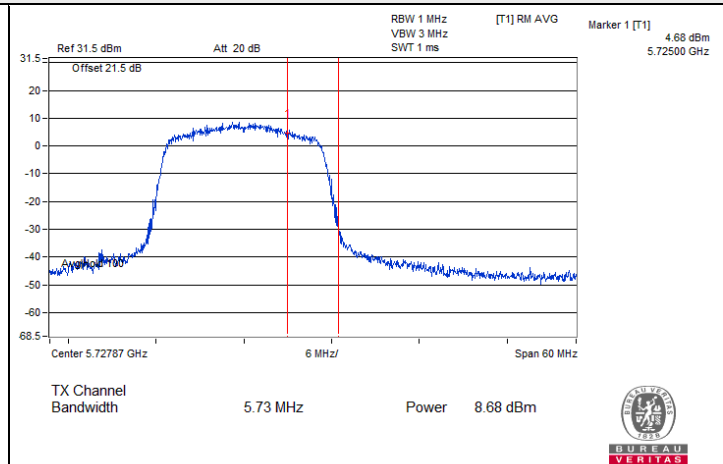


802.11ac (VHT20) CDD / Chain 1 : CH 144 (U-NII-3)

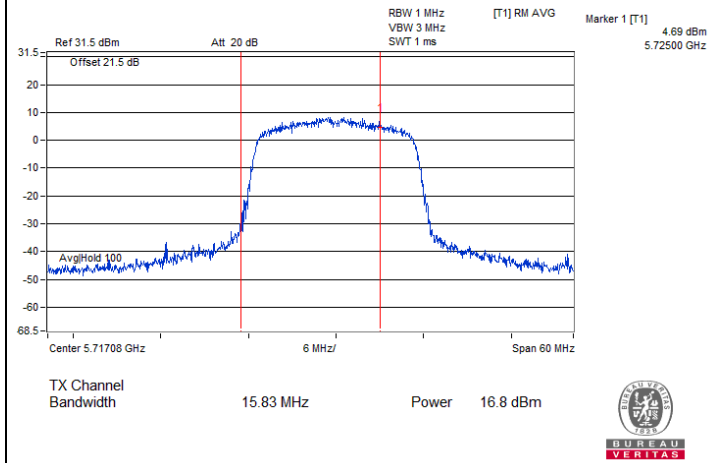
Spectrum Plot for channel straddling



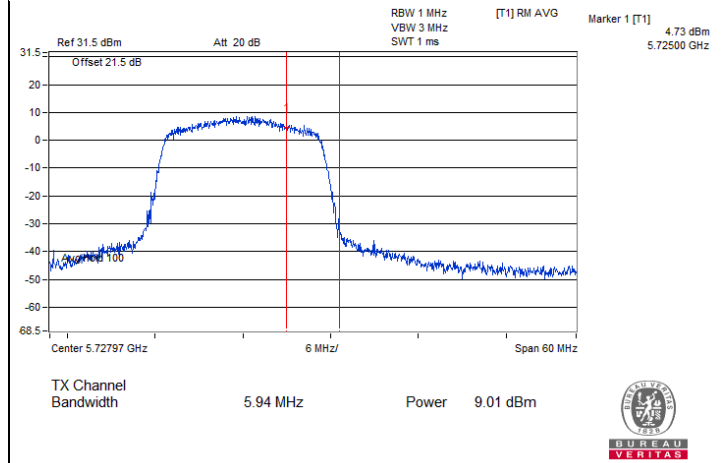
802.11ac (VHT20) CDD / Chain 2 : CH 144 (U-NII-2C)



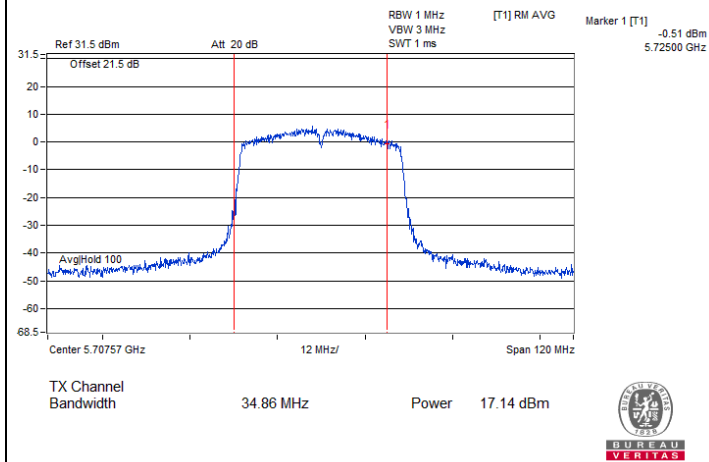
802.11ac (VHT20) CDD / Chain 2 : CH 144 (U-NII-3)



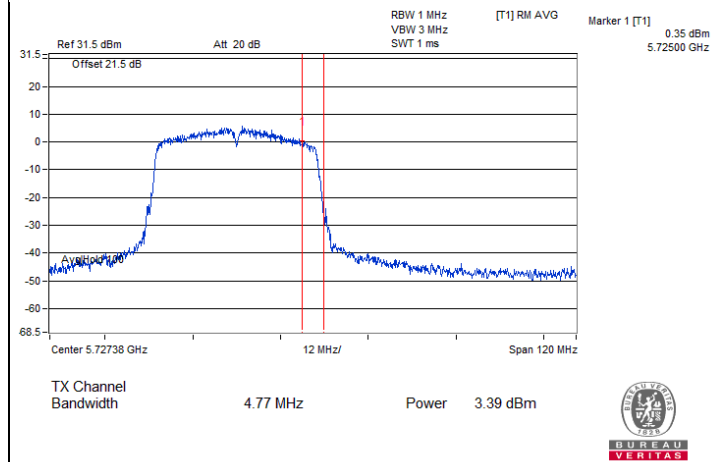
802.11ac (VHT20) CDD / Chain 3 : CH 144 (U-NII-2C)



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

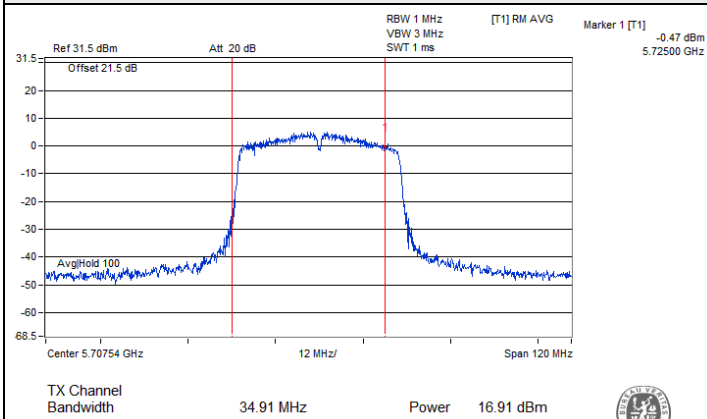


802.11ac (VHT40) CDD / Chain 0 : CH 142 (U-NII-2C)

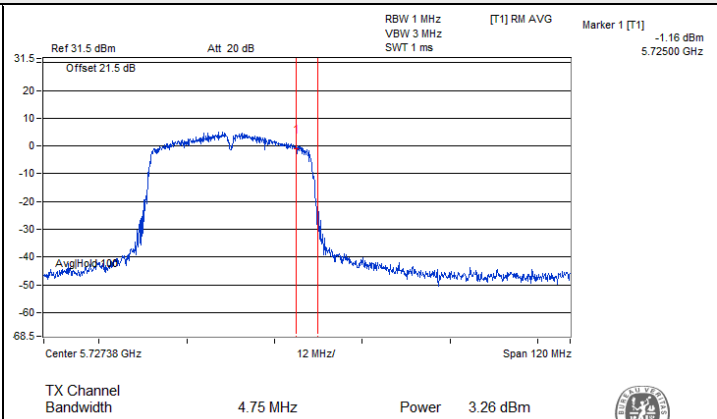


802.11ac (VHT40) CDD / Chain 0 : CH 142 (U-NII-3)

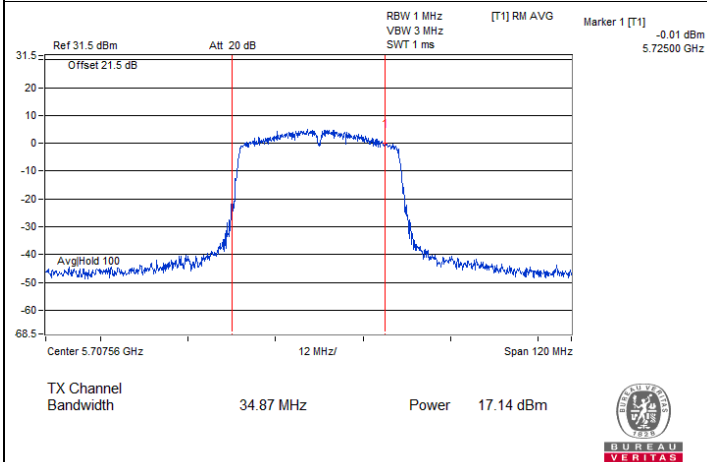
Spectrum Plot for channel straddling



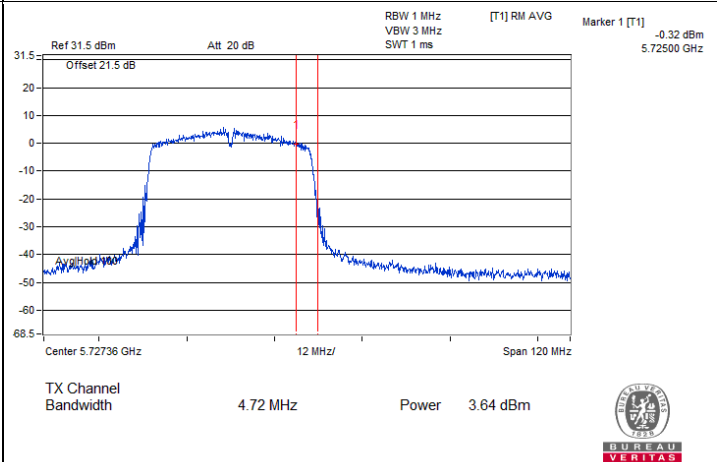
802.11ac (VHT40) CDD / Chain 1 : CH 142 (U-NII-2C)



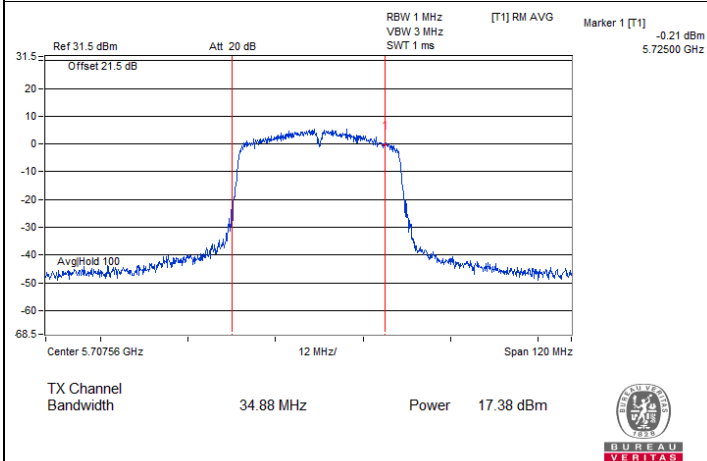
802.11ac (VHT40) CDD / Chain 1 : CH 142 (U-NII-3)



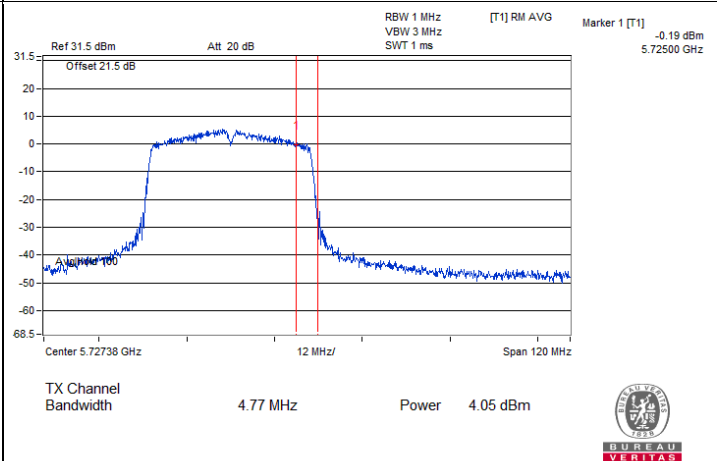
802.11ac (VHT40) CDD / Chain 2 : CH 142 (U-NII-2C)



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

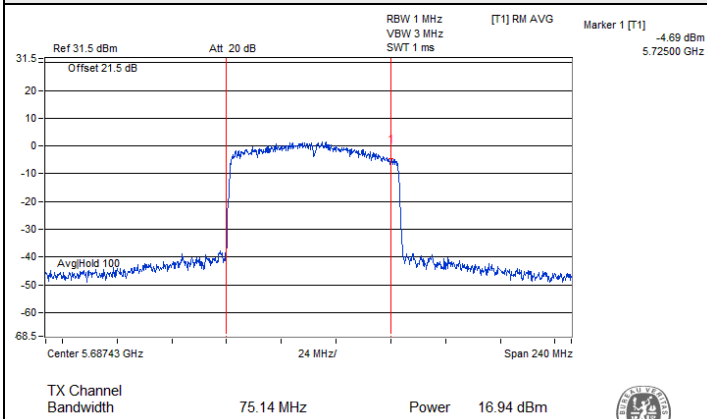


802.11ac (VHT40) CDD / Chain 3 : CH 142 (U-NII-2C)

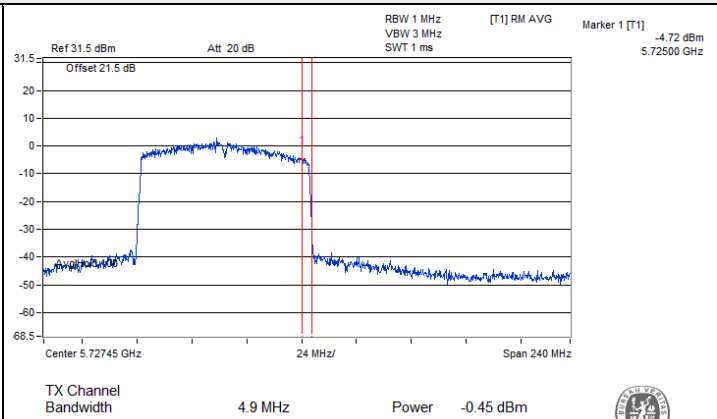


802.11ac (VHT40) CDD / Chain 3 : CH 142 (U-NII-3)

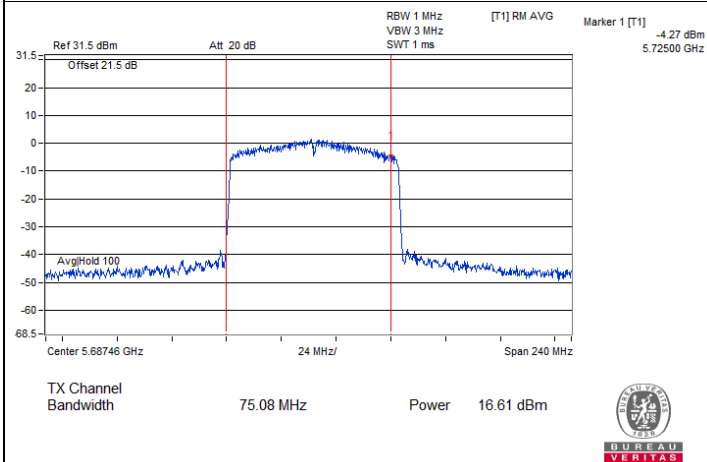
Spectrum Plot for channel straddling



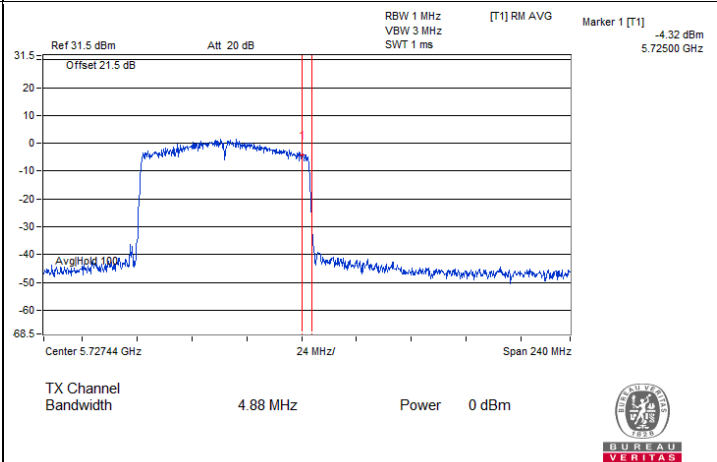
802.11ac (VHT80) CDD / Chain 0 : CH 138 (U-NII-2C)



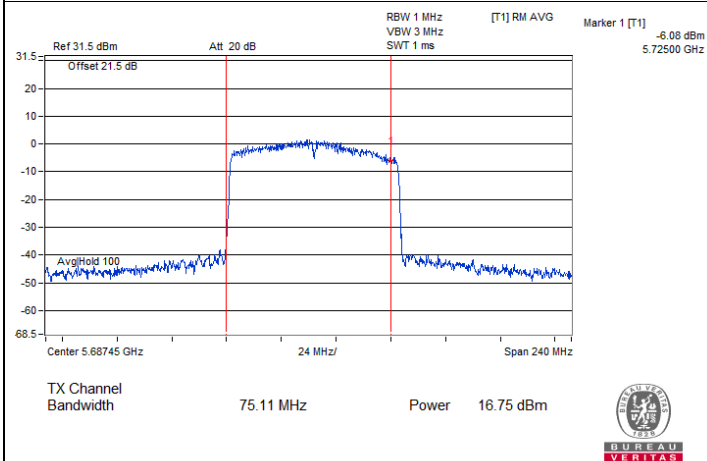
802.11ac (VHT80) CDD / Chain 0 : CH 138 (U-NII-3)



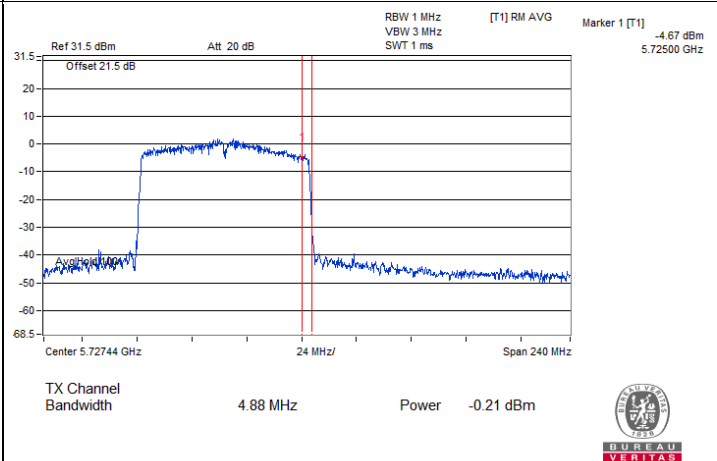
802.11ac (VHT80) CDD / Chain 1 : CH 138 (U-NII-2C)



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

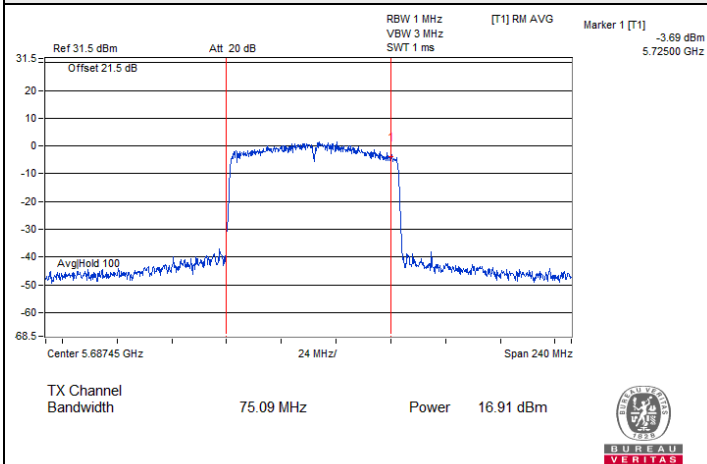


802.11ac (VHT80) CDD / Chain 2 : CH 138 (U-NII-2C)

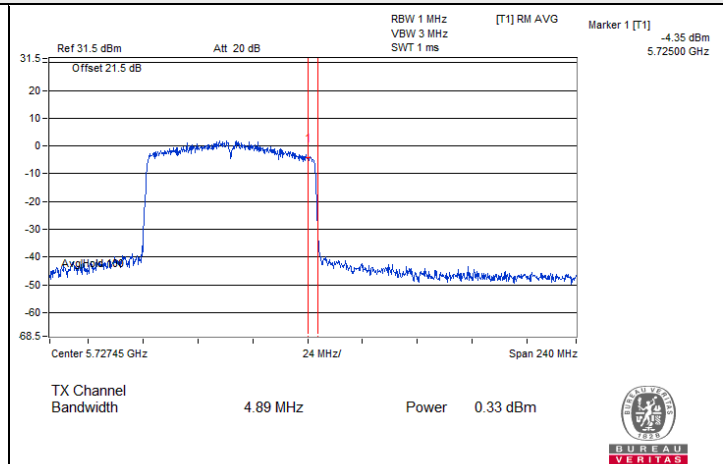


802.11ac (VHT80) CDD / Chain 2 : CH 138 (U-NII-3)

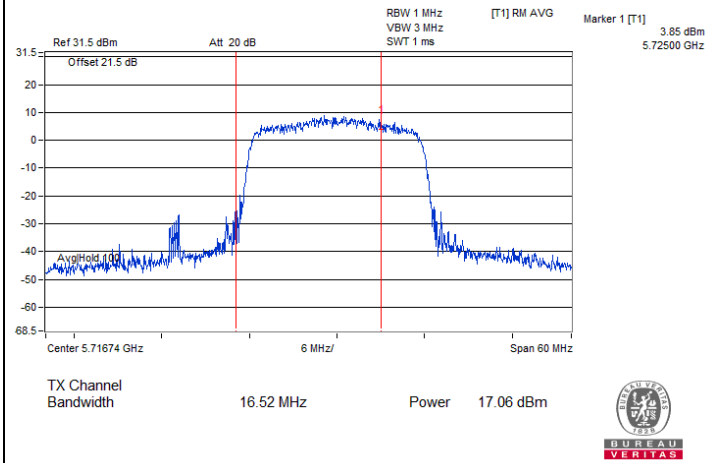
Spectrum Plot for channel straddling



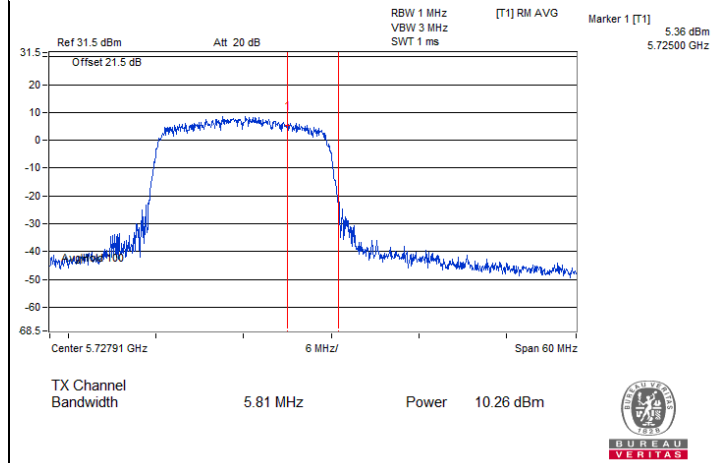
802.11ac (VHT80) CDD / Chain 3 : CH 138 (U-NII-2C)



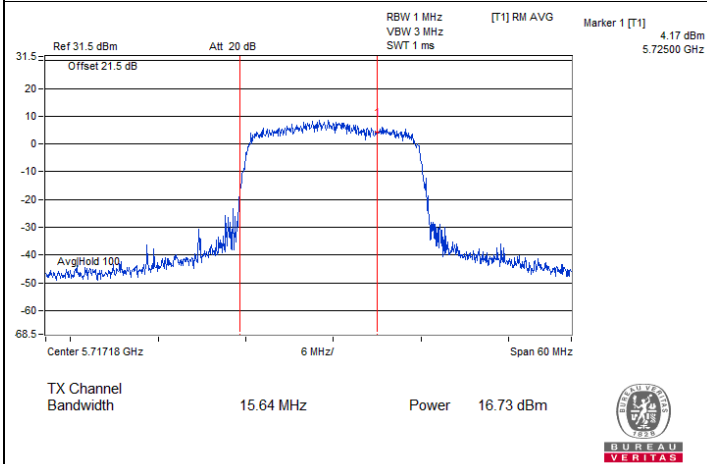
802.11ac (VHT80) CDD / Chain 3 : CH 138 (U-NII-3)



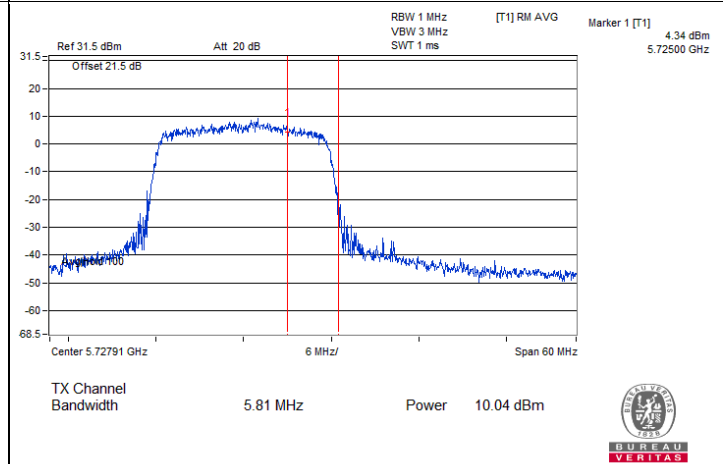
802.11ax (HE20) CDD / Chain 0 : CH 144 (U-NII-2C)



802.11ax (HE20) CDD / Chain 0 : CH 144 (U-NII-3)

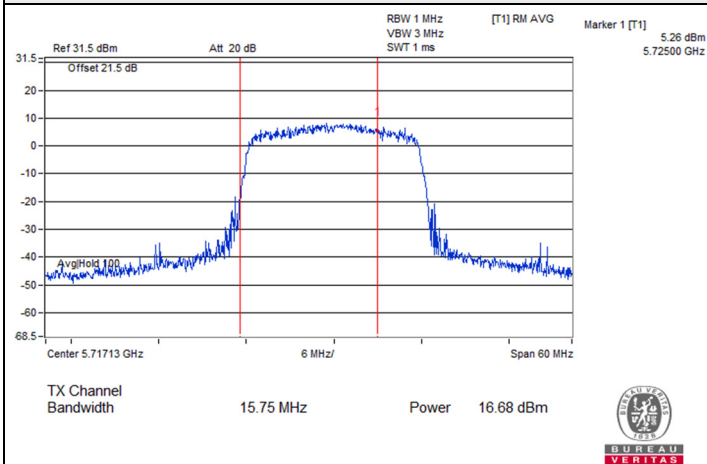


802.11ax (HE20) CDD / Chain 1 : CH 144 (U-NII-2C)

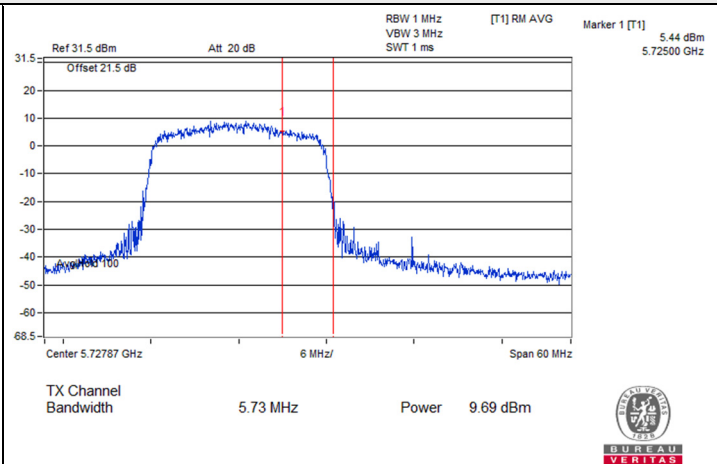


802.11ax (HE20) CDD / Chain 1 : CH 144 (U-NII-3)

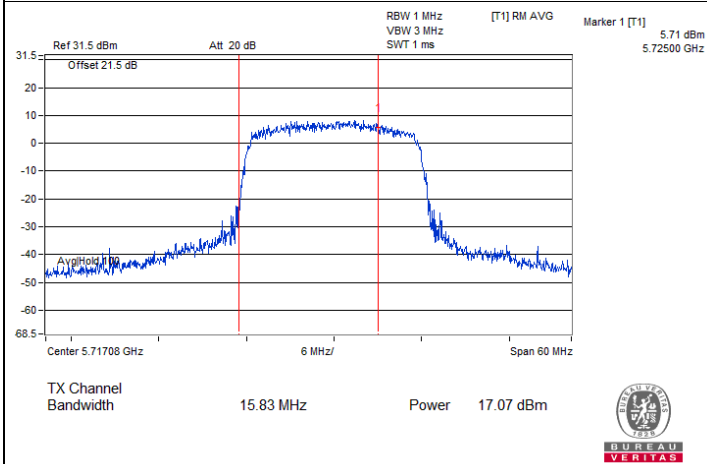
Spectrum Plot for channel straddling



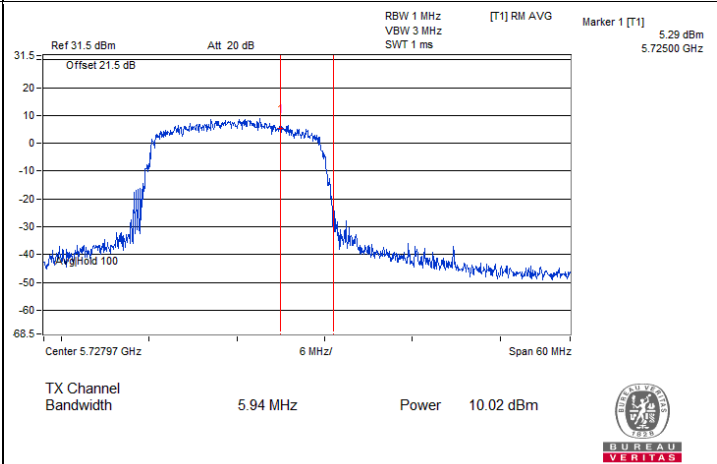
802.11ax (HE20) CDD / Chain 2 : CH 144 (U-NII-2C)



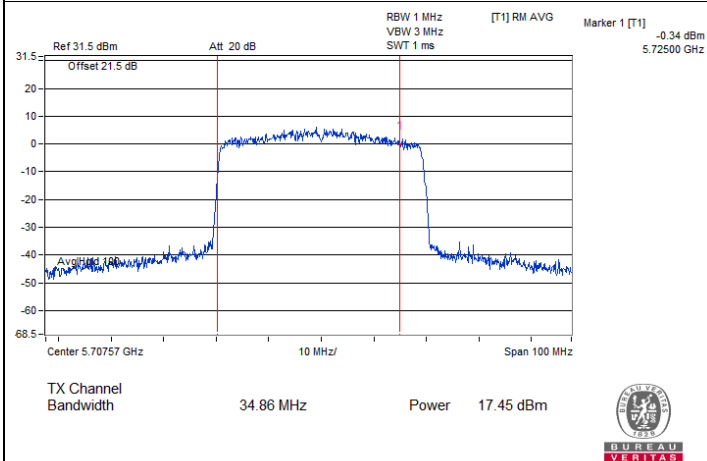
802.11ax (HE20) CDD / Chain 2 : CH 144 (U-NII-3)



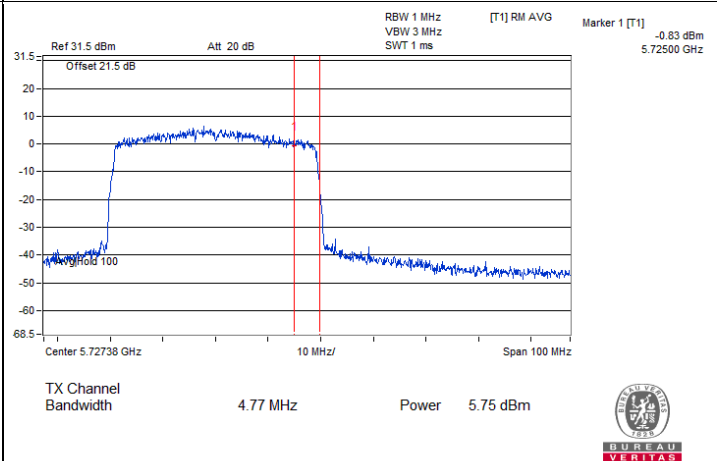
802.11ax (HE20) CDD / Chain 3 : CH 144 (U-NII-2C)



802.11ax (HE20) CDD / Chain 3 : CH 144 (U-NII-3)

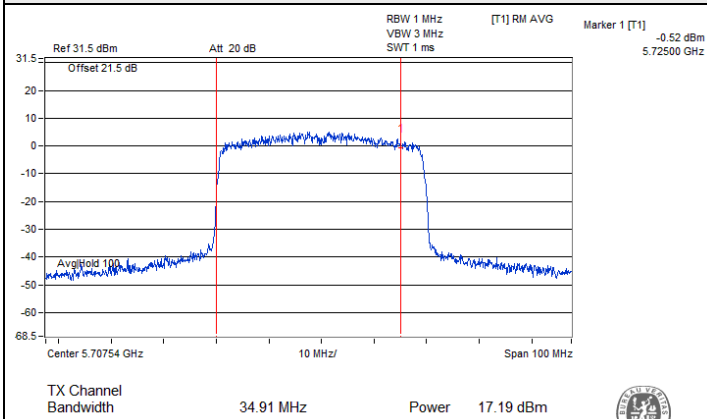


802.11ax (HE40) CDD / Chain 0 : CH 142 (U-NII-2C)

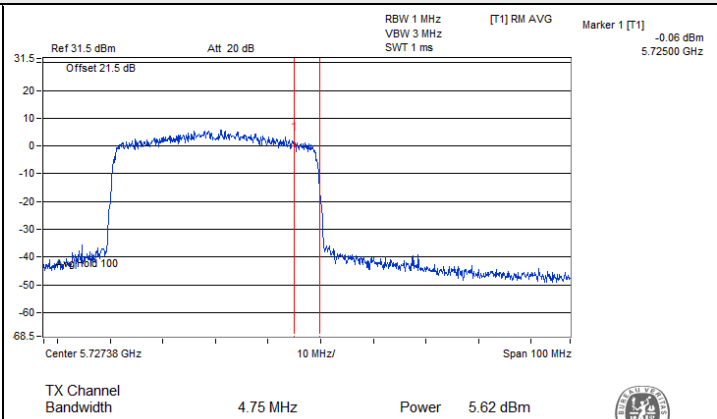


802.11ax (HE40) CDD / Chain 0 : CH 142 (U-NII-3)

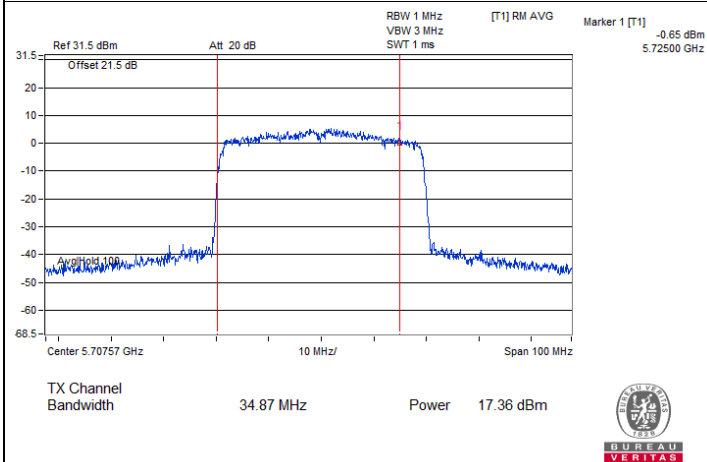
Spectrum Plot for channel straddling



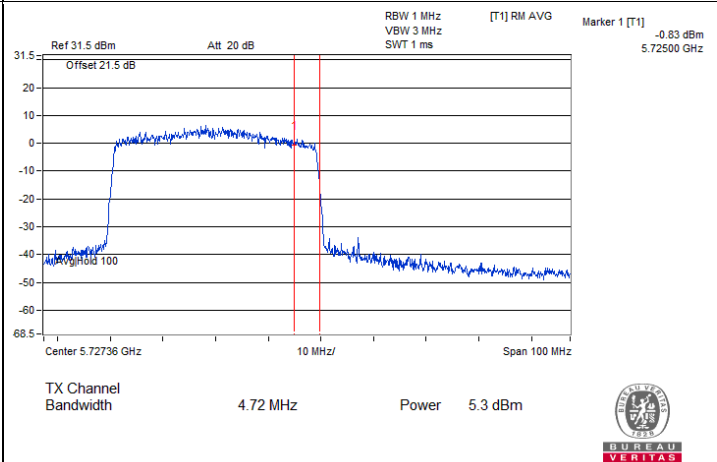
802.11ax (HE40) CDD / Chain 1 : CH 142 (U-NII-2C)



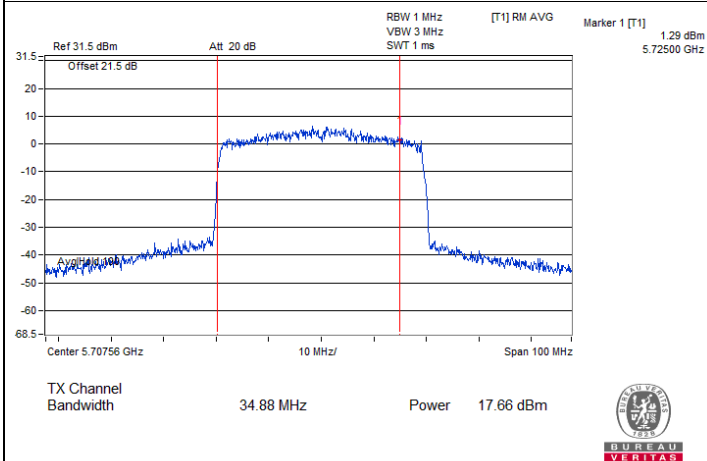
802.11ax (HE40) CDD / Chain 1 : CH 142 (U-NII-3)



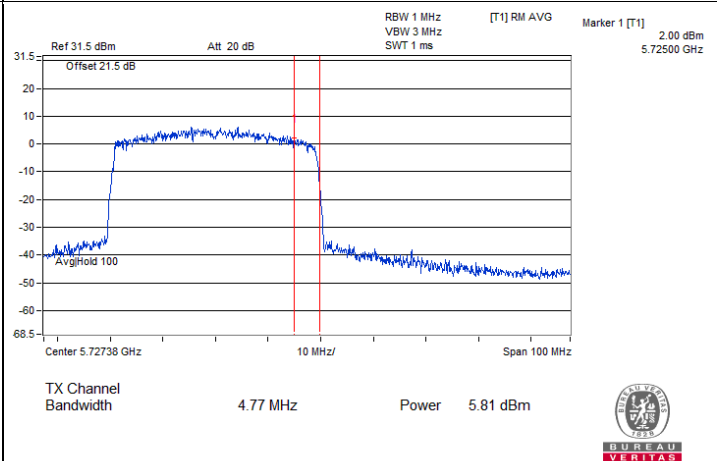
802.11ax (HE40) CDD / Chain 2 : CH 142 (U-NII-2C)



802.11ax (HE40) CDD / Chain 2 : CH 142 (U-NII-3)

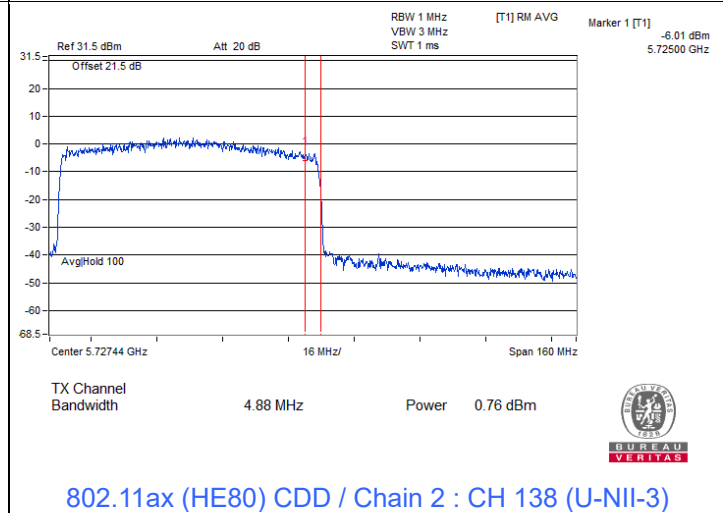
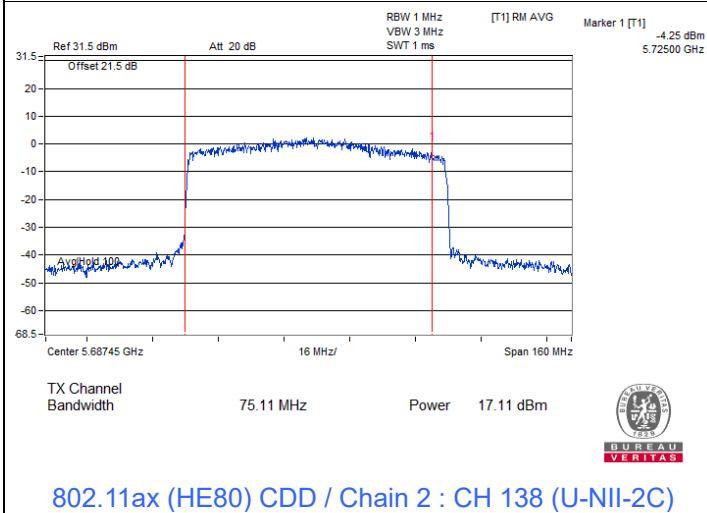
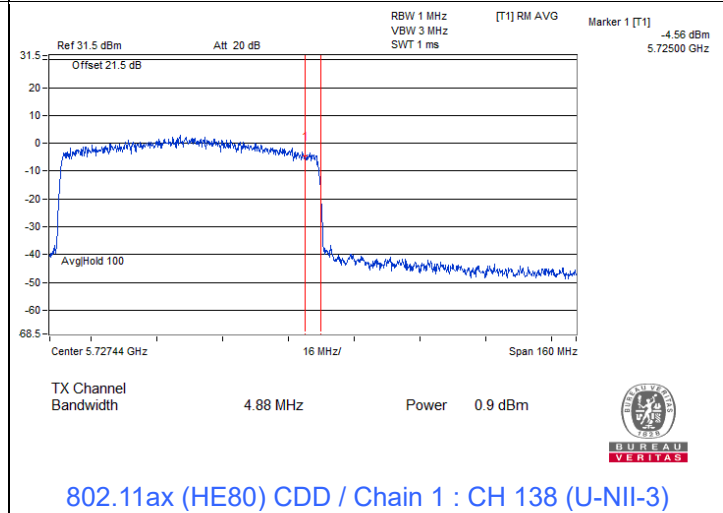
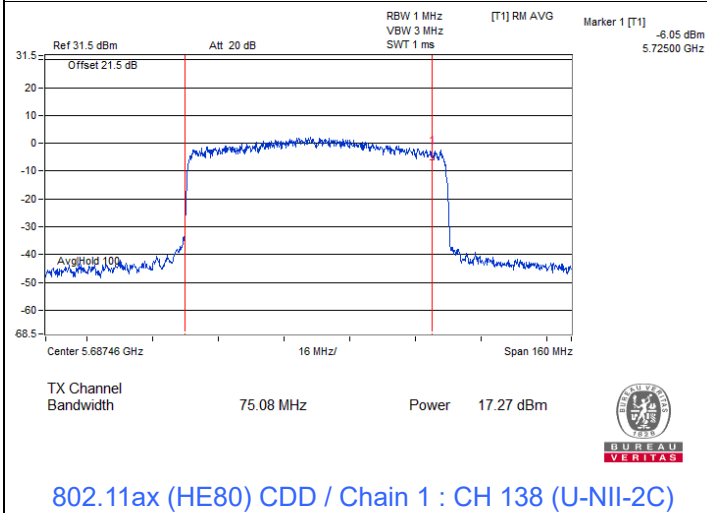
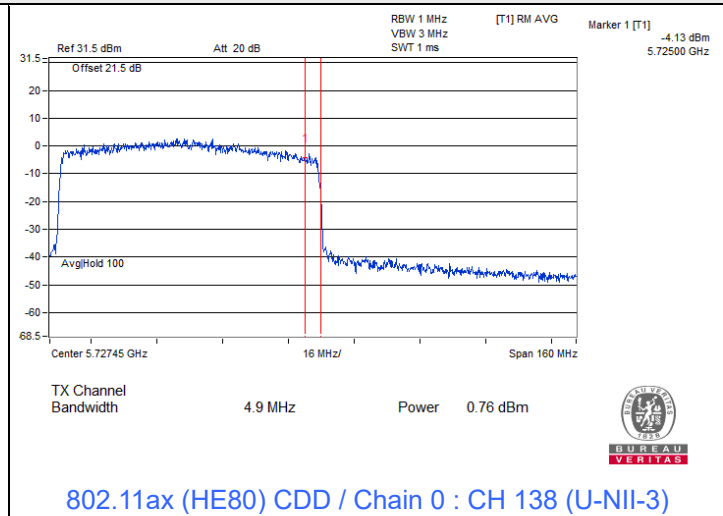
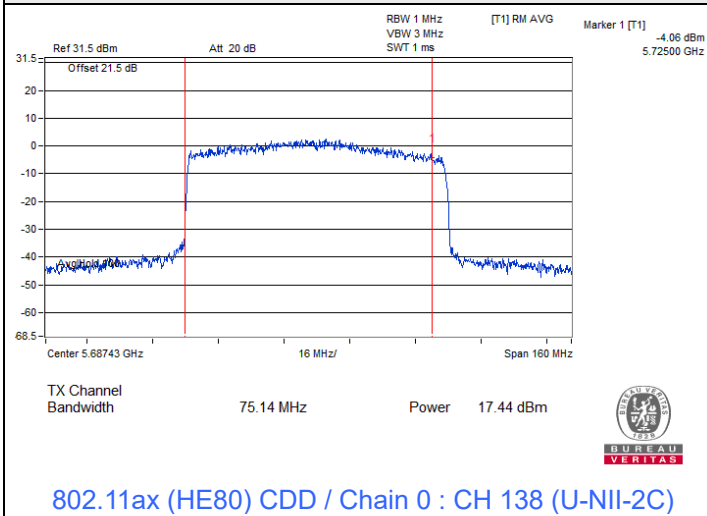


802.11ax (HE40) CDD / Chain 3 : CH 142 (U-NII-2C)

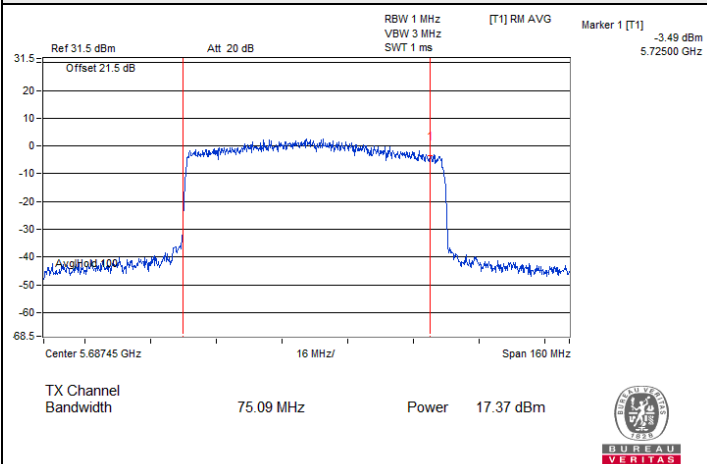


802.11ax (HE40) CDD / Chain 3 : CH 142 (U-NII-3)

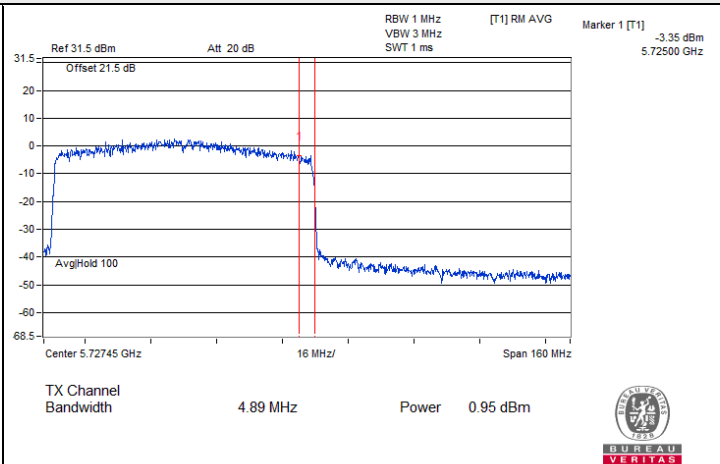
Spectrum Plot for channel straddling



Spectrum Plot for channel straddling



802.11ax (HE80) CDD / Chain 3 : CH 138 (U-NII-2C)



802.11ax (HE80) CDD / Chain 3 : CH 138 (U-NII-3)

Input Power:	120 Vac, 60 Hz	Environmental Conditions:	25°C, 60% RH	Tested By:	Willy Lin
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Mode C

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				
100	5500	17.86	17.54	17.96	17.84	241.179	23.82	24	Pass
116	5580	17.85	17.61	17.99	17.86	242.675	23.85	24	Pass
140	5700	17.75	17.56	17.84	17.81	237.791	23.76	24	Pass
*144 (U-NII-2C)	5720	16.23	16.34	16.65	16.64	177.398	22.49	22.67	Pass
*144 (U-NII-3)	5720	9.92	9.97	10.16	10.22	40.644	16.09	30	Pass
149	5745	24.13	23.22	24.12	24.12	985.167	29.94	30	Pass
157	5785	24.11	23.16	24.16	24.23	990.112	29.96	30	Pass
165	5825	24.16	23.12	24.10	24.15	982.787	29.92	30	Pass

Notes:

- * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.
- Directional gain is the maximum gain of antennas.
- For U-NII-2C, the maximum gain is 3.35 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the maximum gain is 4.04 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				
100	5500	17.65	17.38	17.78	17.60	230.435	23.63	24	Pass
116	5580	17.58	17.42	17.68	17.68	229.715	23.61	24	Pass
140	5700	17.64	17.43	17.63	17.65	229.565	23.61	24	Pass
*144 (U-NII-2C)	5720	15.83	16.19	16.18	15.96	160.815	22.06	22.97	Pass
*144 (U-NII-3)	5720	10.01	10.43	10.26	10.29	42.371	16.27	30	Pass
149	5745	24.01	22.99	24.05	24.02	957.28	29.81	30	Pass
157	5785	23.87	23.06	24.04	24.16	960.211	29.82	30	Pass
165	5825	23.94	23.10	24.03	24.09	961.294	29.83	30	Pass

Notes:

- * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.
- Directional gain is the maximum gain of antennas.
- For U-NII-2C, the maximum gain is 3.35 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the maximum gain is 4.04 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				
102	5510	17.65	17.32	17.61	17.75	229.404	23.61	24	Pass
110	5550	17.72	17.37	17.60	17.59	228.688	23.59	24	Pass
134	5670	17.72	17.39	17.57	17.54	227.886	23.58	24	Pass
*142 (U-NII-2C)	5710	16.59	16.27	16.84	16.24	178.347	22.51	24	Pass
*142 (U-NII-3)	5710	5.83	6.25	6.46	6.05	16.498	12.17	30	Pass
151	5755	23.86	23.02	24.02	24.13	954.837	29.80	30	Pass
159	5795	23.94	23.01	23.91	23.97	943.225	29.75	30	Pass

Notes:

- * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.
- Directional gain is the maximum gain of antennas.
- For U-NII-2C, the maximum gain is 3.35 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the maximum gain is 4.04 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				
106	5530	17.64	17.04	17.56	17.63	223.618	23.50	24	Pass
122	5610	17.67	17.30	17.56	17.84	230.012	23.62	24	Pass
*138 (U-NII-2C)	5690	16.90	16.11	17.10	17.10	192.382	22.84	24	Pass
*138 (U-NII-3)	5690	2.91	2.14	2.73	3.04	7.48	8.74	30	Pass
155	5775	22.95	22.97	23.06	23.15	804.235	29.05	30	Pass

Notes:

- * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.
- Directional gain is the maximum gain of antennas.
- For U-NII-2C, the maximum gain is 3.35 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the maximum gain is 4.04 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				
114	5570	17.23	17.11	17.24	17.56	214.232	23.31	24	Pass

Notes:

- Directional gain is the maximum gain of antennas.
- For U-NII-2C, the maximum gain is 3.35 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11ax (HE20) 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				
100	5500	17.89	17.61	17.99	17.87	243.38	23.86	24	Pass
116	5580	17.85	17.63	17.96	17.95	243.787	23.87	24	Pass
140	5700	17.91	17.69	17.86	17.89	243.162	23.86	24	Pass
*144 (U-NII-2C)	5720	16.35	16.41	16.55	16.30	174.748	22.42	22.97	Pass
*144 (U-NII-3)	5720	10.77	10.62	11.12	10.41	47.406	16.76	30	Pass
149	5745	24.12	23.15	24.18	24.22	990.823	29.96	30	Pass
157	5785	24.05	23.25	24.19	24.31	997.642	29.99	30	Pass
165	5825	24.06	23.21	24.16	24.21	988.343	29.95	30	Pass

Notes:

- * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.
- Directional gain is the maximum gain of antennas.
- For U-NII-2C, the maximum gain is 3.35 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the maximum gain is 4.04 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11ax (HE40) 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				
102	5510	17.94	17.54	17.86	17.96	242.596	23.85	24	Pass
110	5550	17.96	17.64	17.85	17.84	242.361	23.84	24	Pass
134	5670	17.93	17.61	17.85	17.83	241.391	23.83	24	Pass
*142 (U-NII-2C)	5710	16.86	16.54	17.02	16.72	190.95	22.81	24	Pass
*142 (U-NII-3)	5710	6.48	7.01	7.04	6.73	19.238	12.84	30	Pass
151	5755	23.95	23.15	24.12	24.16	973.693	29.88	30	Pass
159	5795	23.99	23.15	24.01	24.15	968.933	29.86	30	Pass

Notes:

- * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.
- Directional gain is the maximum gain of antennas.
- For U-NII-2C, the maximum gain is 3.35 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the maximum gain is 4.04 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11ax (HE80) 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				
106	5530	17.82	17.13	17.84	17.86	234.083	23.69	24	Pass
122	5610	17.81	17.55	17.85	17.95	240.607	23.81	24	Pass
*138 (U-NII-2C)	5690	17.44	16.53	17.58	17.45	213.311	23.29	24	Pass
*138 (U-NII-3)	5690	3.69	3.31	3.14	3.94	9.02	9.55	30	Pass
155	5775	23.14	23.09	23.17	23.32	832.042	29.20	30	Pass

Notes:

- * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.
- Directional gain is the maximum gain of antennas.
- For U-NII-2C, the maximum gain is 3.35 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the maximum gain is 4.04 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11ax (HE160) 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				
114	5570	17.36	17.35	17.51	17.74	224.568	23.51	24	Pass

Notes:

- Directional gain is the maximum gain of antennas.
- For U-NII-2C, the maximum gain is 3.35 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				
100	5500	17.53	17.22	17.59	17.42	221.966	23.46	23.94	Pass
116	5580	17.42	17.22	17.51	17.57	221.442	23.45	23.94	Pass
140	5700	17.49	17.31	17.51	17.49	222.4	23.47	23.94	Pass
*144 (U-NII-2C)	5720	15.83	16.19	16.18	15.96	160.815	22.06	22.91	Pass
*144 (U-NII-3)	5720	10.01	10.43	10.26	10.29	42.371	16.27	29.24	Pass
149	5745	22.88	22.83	22.96	22.88	777.741	28.91	29.24	Pass
157	5785	22.74	22.87	22.98	22.81	771.169	28.87	29.24	Pass
165	5825	22.82	22.77	22.95	22.88	771.991	28.88	29.24	Pass

Notes:

- * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.
- Directional gain is the measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
- For U-NII-2C, the directional gain is 6.06 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(6.06-6)].
- For U-NII-3, the directional gain is 6.76 dBi > 6 dBi, so the output power limit shall be reduced to 30-(6.76-6) = 29.24 dBm.

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				
102	5510	17.54	17.20	17.46	17.62	222.763	23.48	23.94	Pass
110	5550	17.53	17.22	17.49	17.49	221.557	23.45	23.94	Pass
134	5670	17.56	17.19	17.43	17.34	218.912	23.40	23.94	Pass
*142 (U-NII-2C)	5710	16.59	16.27	16.84	16.24	178.347	22.51	23.94	Pass
*142 (U-NII-3)	5710	5.83	6.25	6.46	6.05	16.498	12.17	29.24	Pass
151	5755	22.79	22.86	22.98	22.87	775.556	28.90	29.24	Pass
159	5795	22.78	22.72	23.00	22.85	769.018	28.86	29.24	Pass

Notes:

- * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.
- Directional gain is the measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
- For U-NII-2C, the directional gain is 6.06 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(6.06-6)].
- For U-NII-3, the directional gain is 6.76 dBi > 6 dBi, so the output power limit shall be reduced to 30-(6.76-6) = 29.24 dBm.

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				
106	5530	17.47	16.86	17.39	17.46	214.922	23.32	23.94	Pass
122	5610	17.50	17.19	17.39	17.67	221.901	23.46	23.94	Pass
*138 (U-NII-2C)	5690	16.90	16.11	17.10	17.10	192.382	22.84	23.94	Pass
*138 (U-NII-3)	5690	2.91	2.14	2.73	3.04	7.48	8.74	29.24	Pass
155	5775	22.69	22.62	22.68	22.84	746.253	28.73	29.24	Pass

Notes:

- * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.
- Directional gain is the measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
- For U-NII-2C, the directional gain is 6.06 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(6.06-6)].
- For U-NII-3, the directional gain is 6.76 dBi > 6 dBi, so the output power limit shall be reduced to 30-(6.76-6) = 29.24 dBm.

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				
114	5570	17.13	16.97	17.06	17.43	207.566	23.17	23.94	Pass

Notes:

1. Directional gain is the measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
2. For U-NII-2C, the directional gain is 6.06 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(6.06-6)].

802.11ax (HE20) 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				
100	5500	17.72	17.43	17.81	17.69	233.635	23.69	23.94	Pass
116	5580	17.66	17.51	17.85	17.82	236.196	23.73	23.94	Pass
140	5700	17.77	17.54	17.70	17.78	235.459	23.72	23.94	Pass
*144 (U-NII-2C)	5720	16.35	16.41	16.55	16.30	174.748	22.42	22.91	Pass
*144 (U-NII-3)	5720	10.77	10.62	11.12	10.41	47.406	16.76	29.24	Pass
149	5745	23.01	22.99	23.11	23.01	803.684	29.05	29.24	Pass
157	5785	22.99	22.93	23.09	22.95	796.35	29.01	29.24	Pass
165	5825	23.01	22.94	23.10	23.00	800.475	29.03	29.24	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-2C, the directional gain is 6.06 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(6.06-6)].
4. For U-NII-3, the directional gain is 6.76 dBi > 6 dBi, so the output power limit shall be reduced to 30-(6.76-6) = 29.24 dBm.

802.11ax (HE40) 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				
102	5510	17.76	17.43	17.75	17.82	235.139	23.71	23.94	Pass
110	5550	17.86	17.48	17.73	17.66	234.707	23.71	23.94	Pass
134	5670	17.82	17.44	17.66	17.66	232.686	23.67	23.94	Pass
*142 (U-NII-2C)	5710	16.86	16.54	17.02	16.72	190.95	22.81	23.94	Pass
*142 (U-NII-3)	5710	6.48	7.01	7.04	6.73	19.238	12.84	29.24	Pass
151	5755	22.94	23.05	23.10	23.04	804.171	29.05	29.24	Pass
159	5795	22.97	22.95	23.06	23.04	799.069	29.03	29.24	Pass

Notes:

- * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.
- Directional gain is the measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
- For U-NII-2C, the directional gain is 6.06 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(6.06-6)].
- For U-NII-3, the directional gain is 6.76 dBi > 6 dBi, so the output power limit shall be reduced to 30-(6.76-6) = 29.24 dBm.

802.11ax (HE80) 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				
106	5530	17.64	17.00	17.66	17.73	225.832	23.54	23.94	Pass
122	5610	17.69	17.38	17.67	17.81	232.324	23.66	23.94	Pass
*138 (U-NII-2C)	5690	17.44	16.53	17.58	17.45	213.311	23.29	23.94	Pass
*138 (U-NII-3)	5690	3.69	3.31	3.14	3.94	9.02	9.55	29.24	Pass
155	5775	22.91	22.85	22.89	23.04	784.095	28.94	29.24	Pass

Notes:

- * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.
- Directional gain is the measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
- For U-NII-2C, the directional gain is 6.06 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(6.06-6)].
- For U-NII-3, the directional gain is 6.76 dBi > 6 dBi, so the output power limit shall be reduced to 30-(6.76-6) = 29.24 dBm.

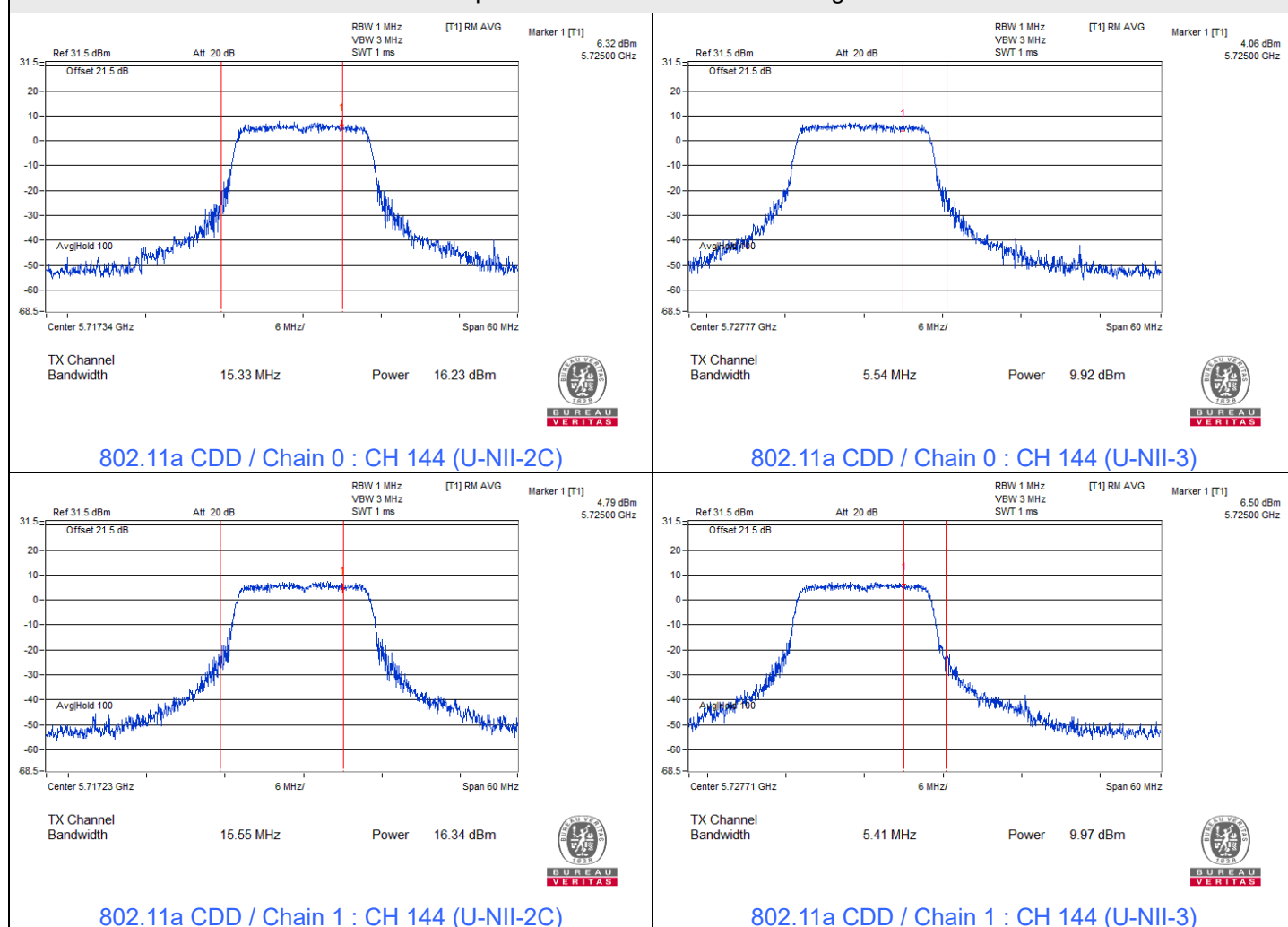
802.11ax (HE160) Beamforming

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				
114	5570	17.26	17.31	17.48	17.68	221.627	23.46	23.94	Pass

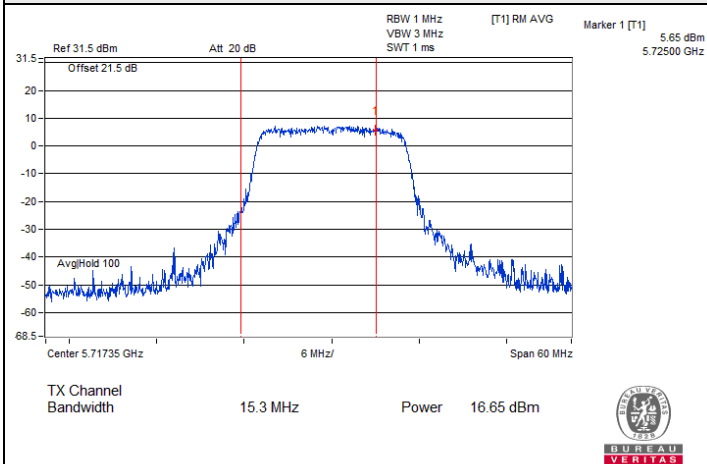
Notes:

1. Directional gain is the measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
2. For U-NII-2C, the directional gain is 6.06 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(6.06-6)].

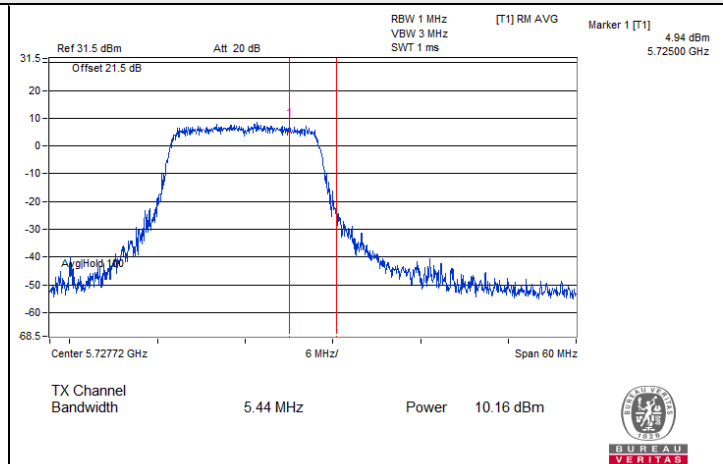
Spectrum Plot for channel straddling



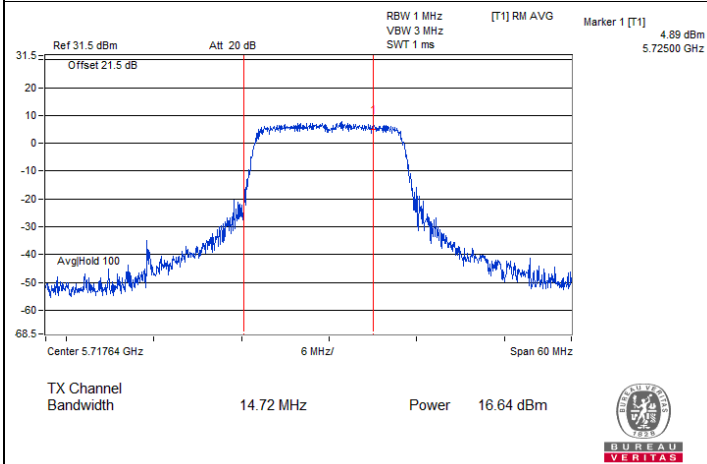
Spectrum Plot for channel straddling



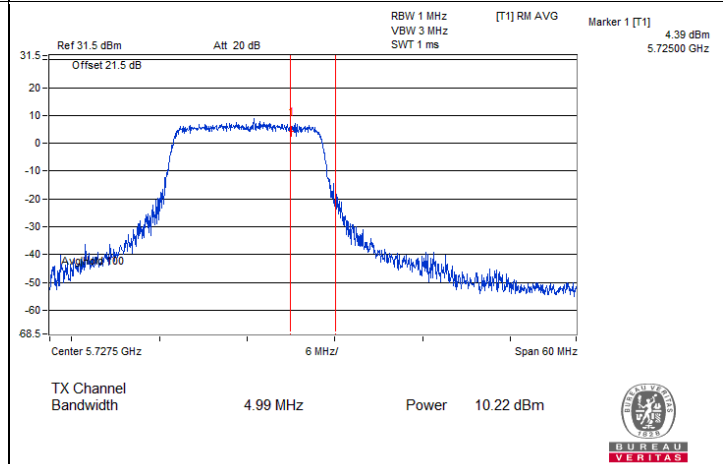
802.11a CDD / Chain 2 : CH 144 (U-NII-2C)



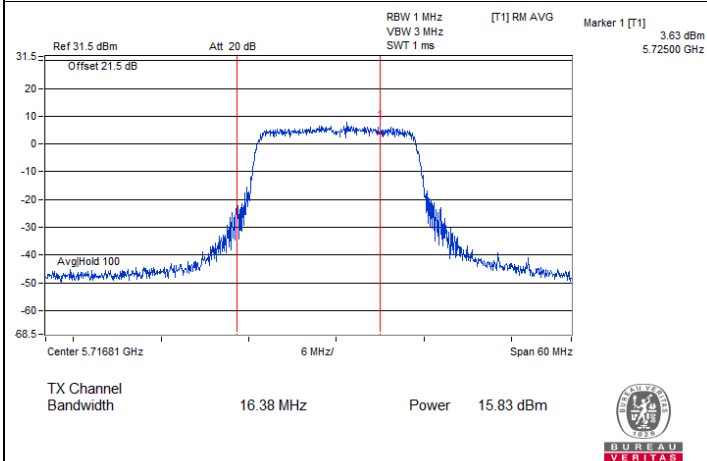
802.11a CDD / Chain 2 : CH 144 (U-NII-3)



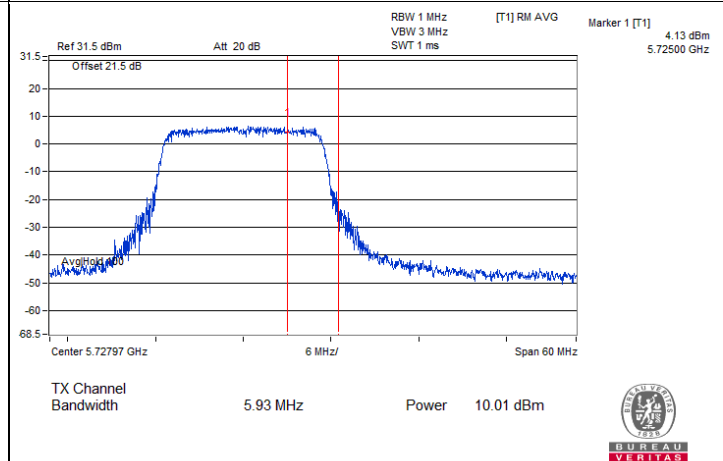
802.11a CDD / Chain 3 : CH 144 (U-NII-2C)



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

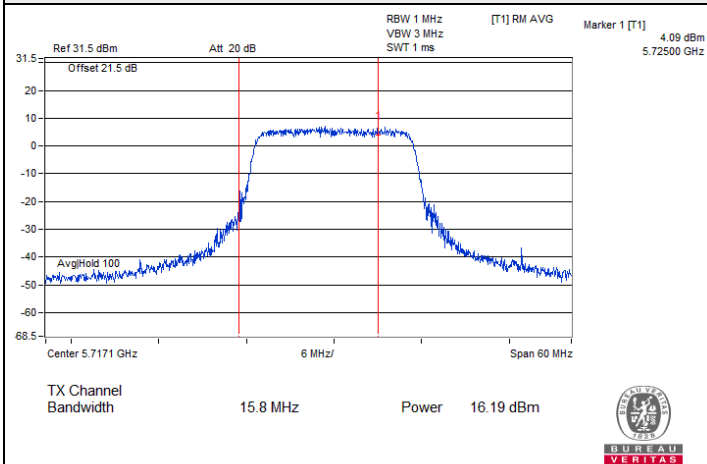


802.11ac (VHT20) CDD / Chain 0 : CH 144 (U-NII-2C)

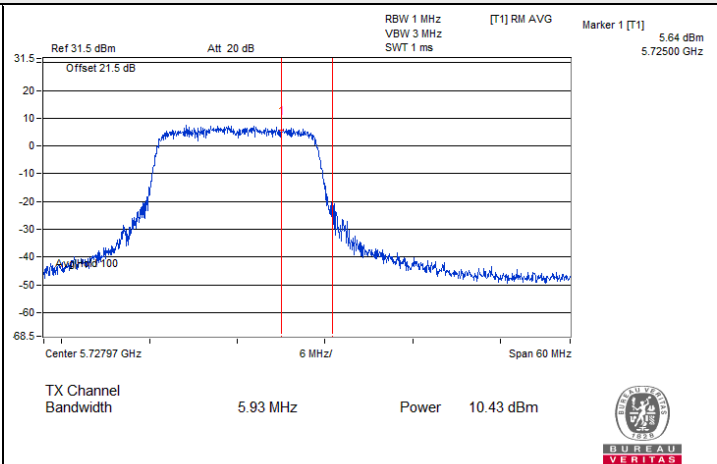


802.11ac (VHT20) CDD / Chain 0 : CH 144 (U-NII-3)

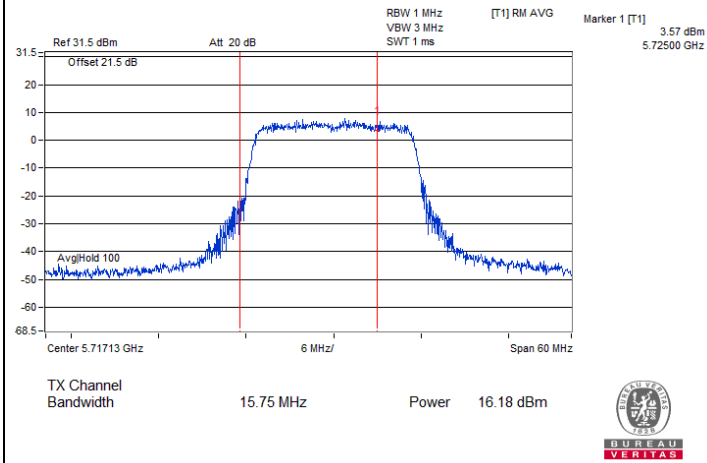
Spectrum Plot for channel straddling



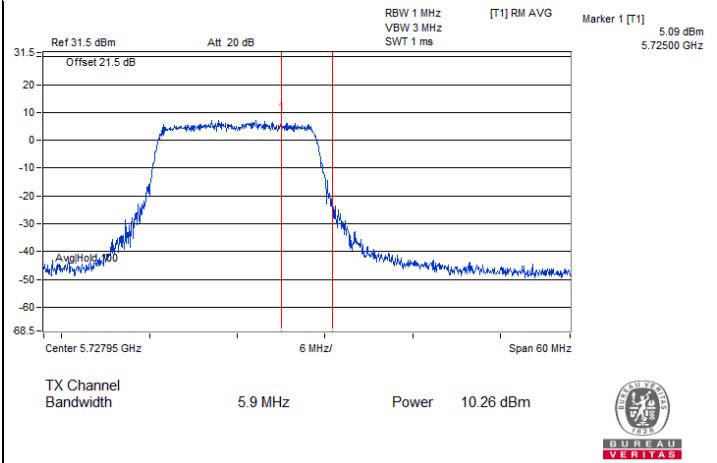
802.11ac (VHT20) CDD / Chain 1 : CH 144 (U-NII-2C)



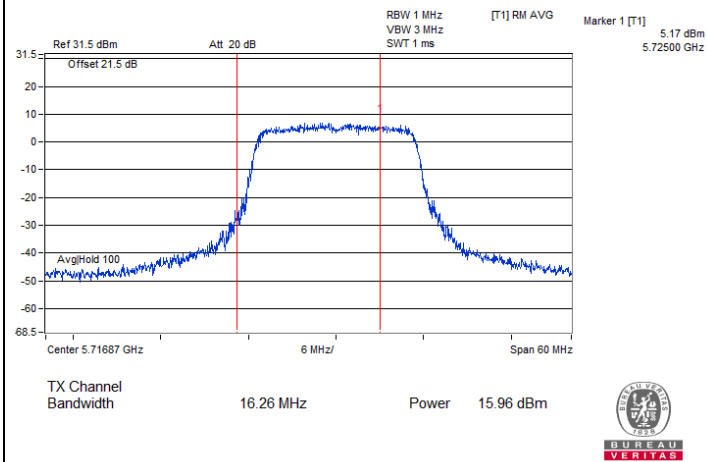
802.11ac (VHT20) CDD / Chain 1 : CH 144 (U-NII-3)



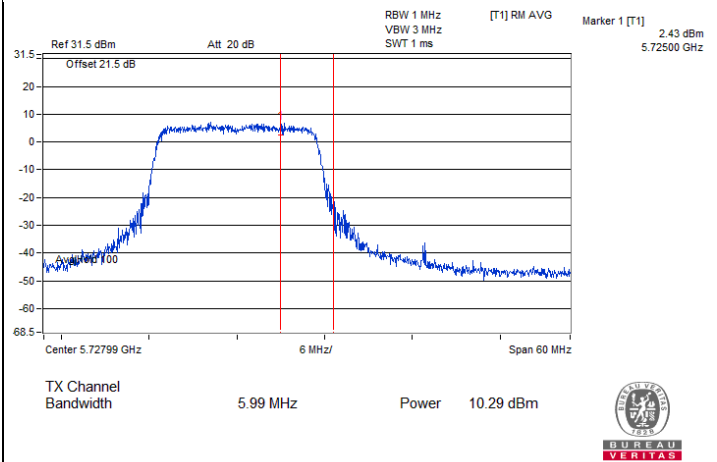
802.11ac (VHT20) CDD / Chain 2 : CH 144 (U-NII-2C)



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

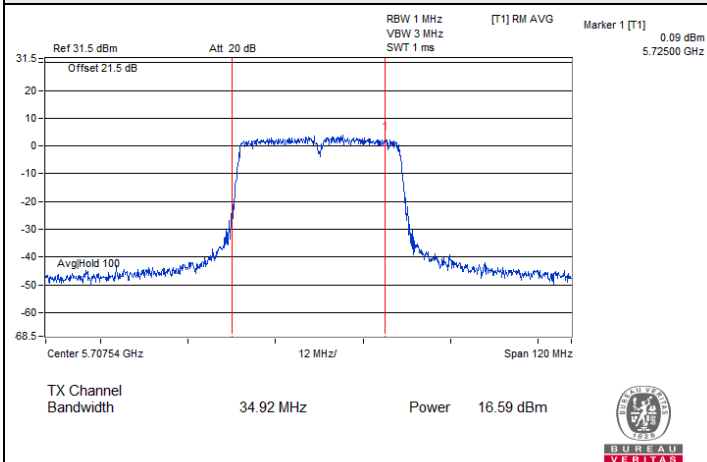


802.11ac (VHT20) CDD / Chain 3 : CH 144 (U-NII-2C)

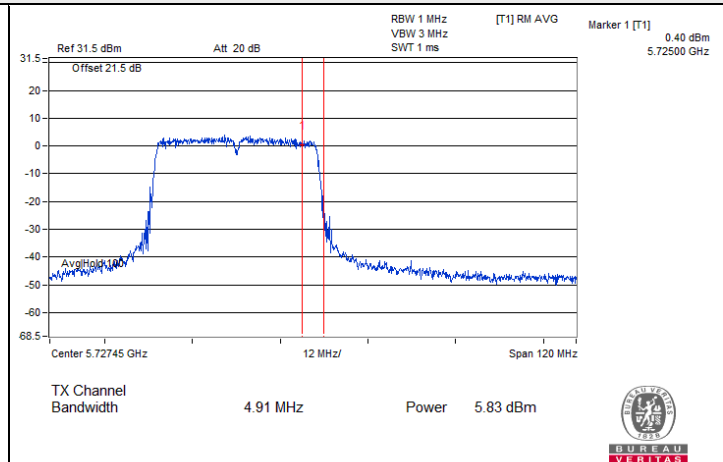


802.11ac (VHT20) CDD / Chain 3 : CH 144 (U-NII-3)

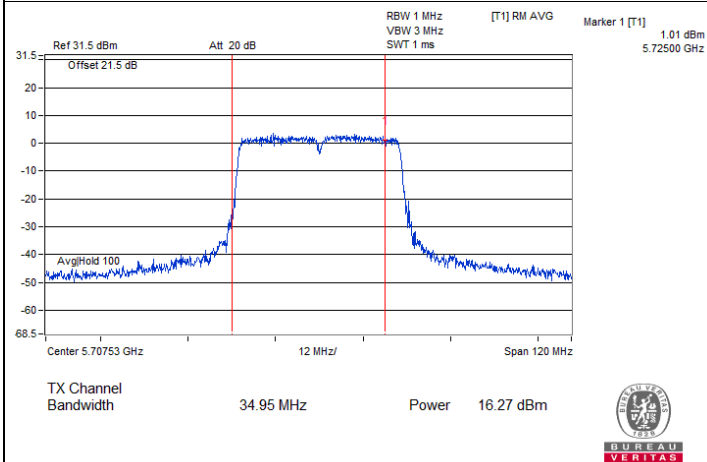
Spectrum Plot for channel straddling



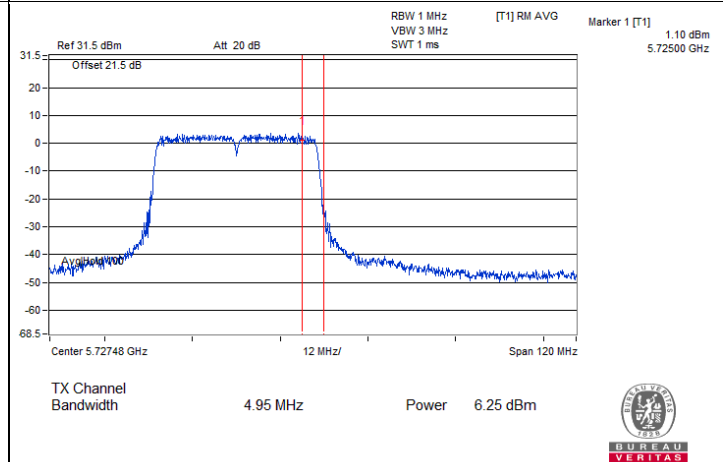
802.11ac (VHT40) CDD / Chain 0 : CH 142 (U-NII-2C)



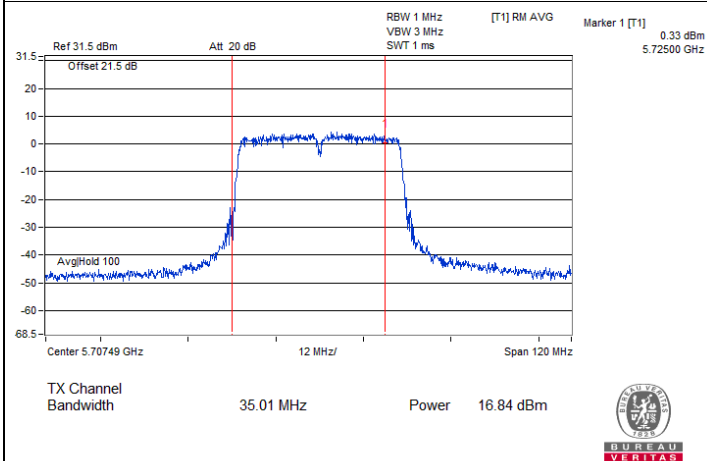
802.11ac (VHT40) CDD / Chain 0 : CH 142 (U-NII-3)



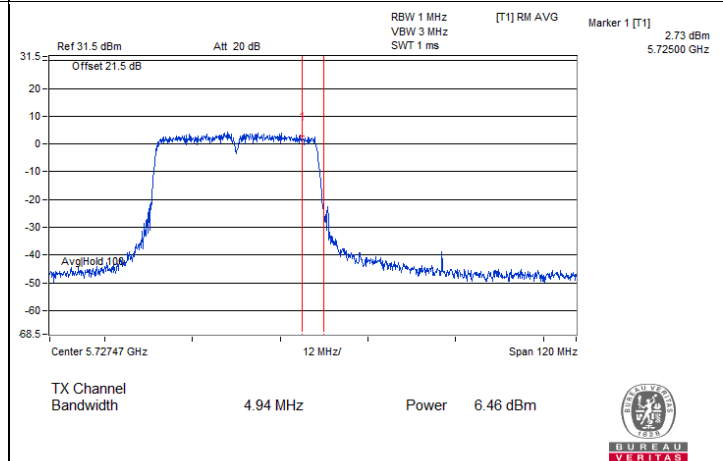
802.11ac (VHT40) CDD / Chain 1 : CH 142 (U-NII-2C)



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

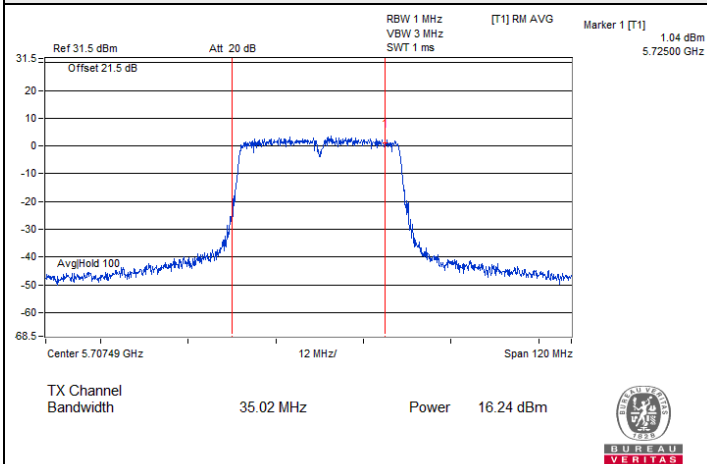


802.11ac (VHT40) CDD / Chain 2 : CH 142 (U-NII-2C)

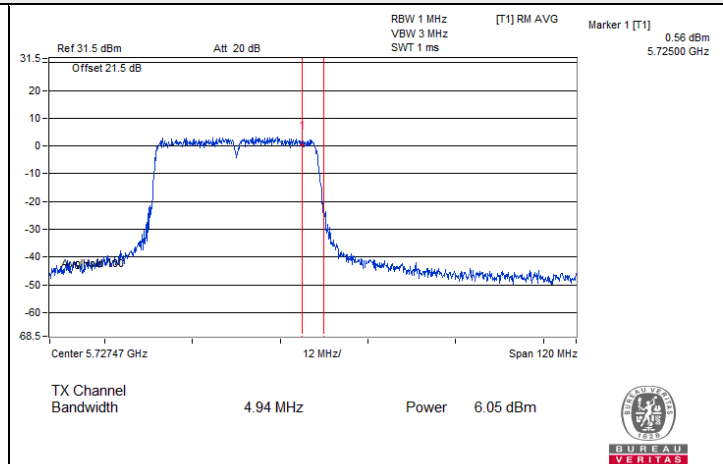


802.11ac (VHT40) CDD / Chain 2 : CH 142 (U-NII-3)

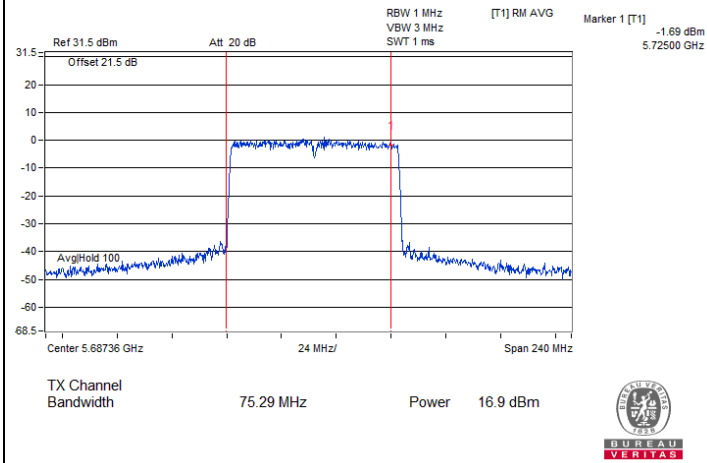
Spectrum Plot for channel straddling



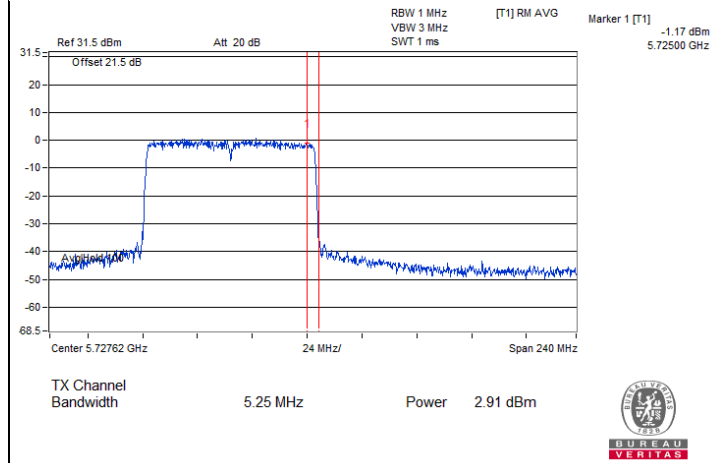
802.11ac (VHT40) CDD / Chain 3 : CH 142 (U-NII-2C)



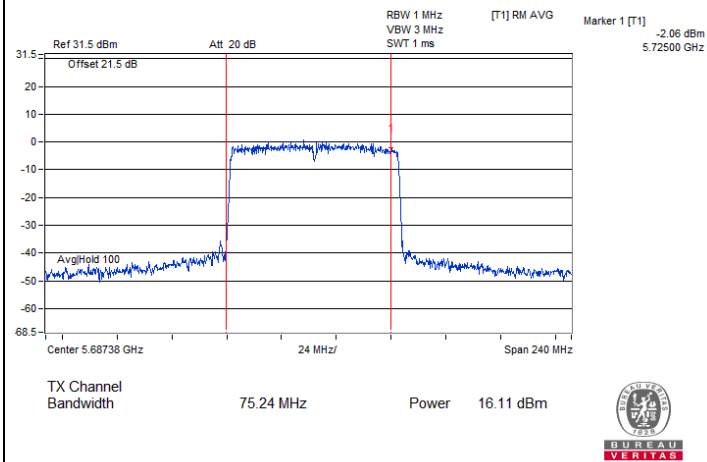
802.11ac (VHT40) CDD / Chain 3 : CH 142 (U-NII-3)



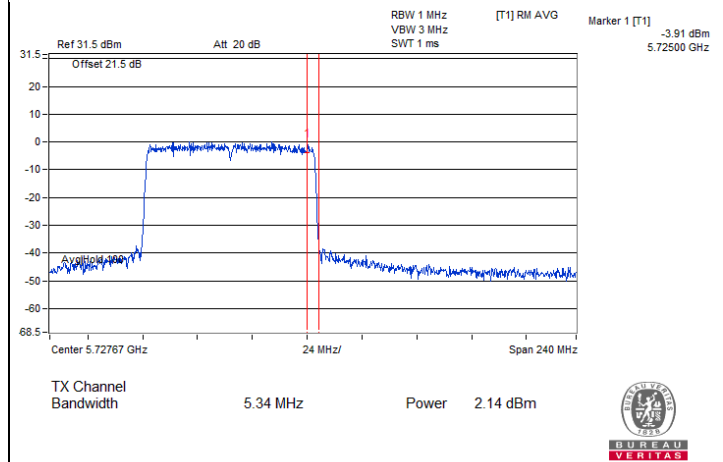
802.11ac (VHT80) CDD / Chain 0 : CH 138 (U-NII-2C)



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

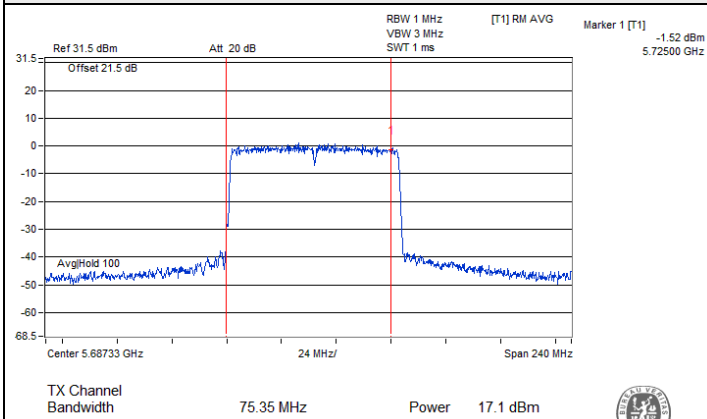


802.11ac (VHT80) CDD / Chain 1 : CH 138 (U-NII-2C)

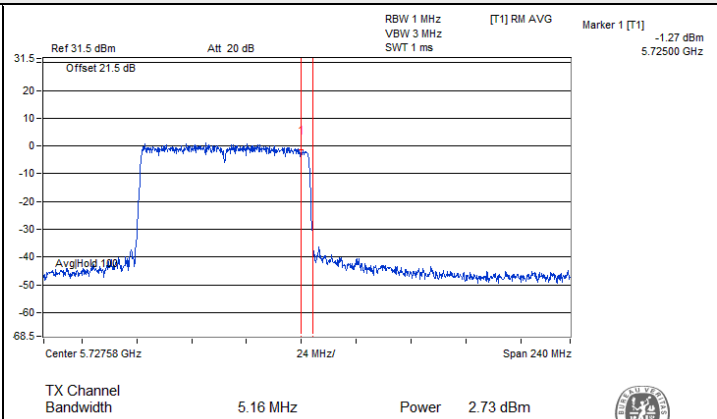


802.11ac (VHT80) CDD / Chain 1 : CH 138 (U-NII-3)

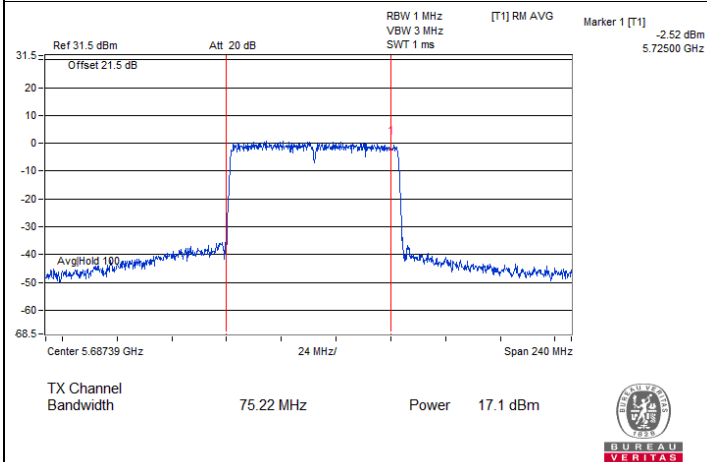
Spectrum Plot for channel straddling



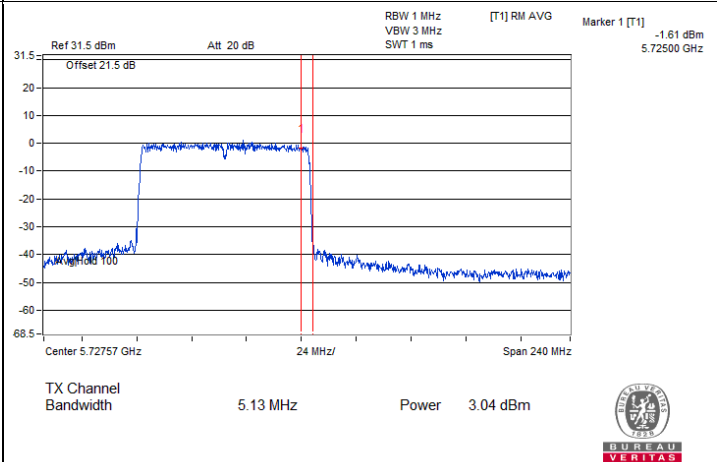
802.11ac (VHT80) CDD / Chain 2 : CH 138 (U-NII-2C)



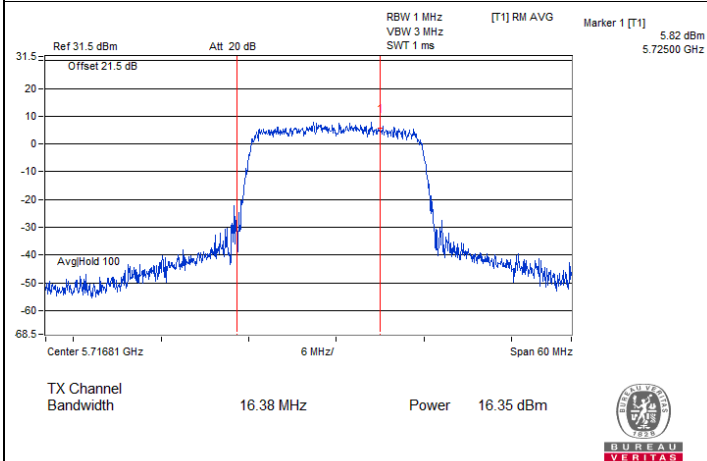
802.11ac (VHT80) CDD / Chain 2 : CH 138 (U-NII-3)



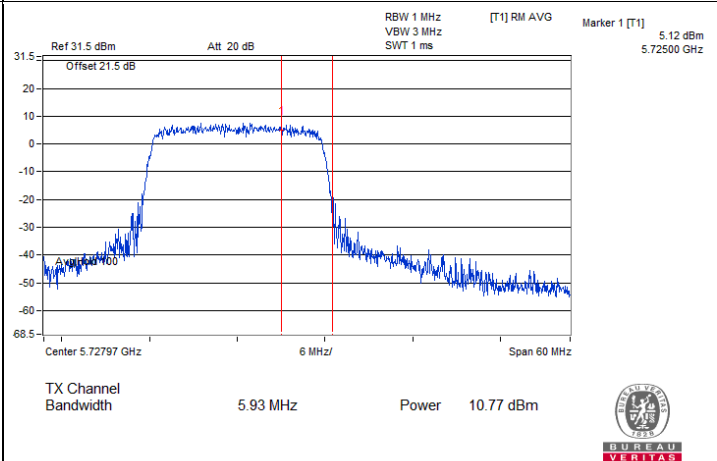
802.11ac (VHT80) CDD / Chain 3 : CH 138 (U-NII-2C)



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

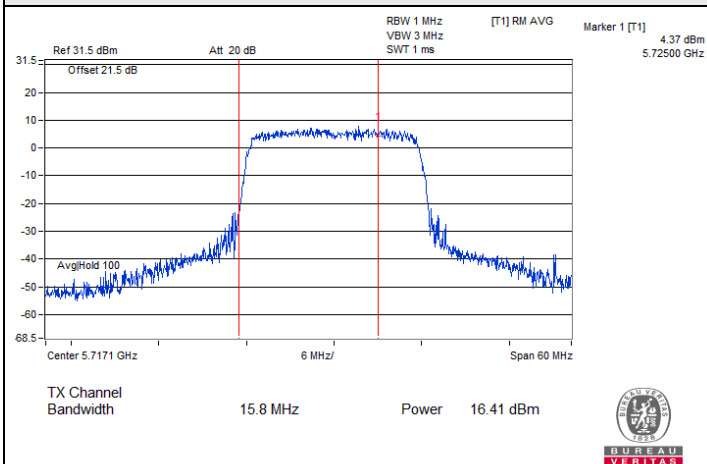


802.11ax (HE20) CDD / Chain 0 : CH 144 (U-NII-2C)

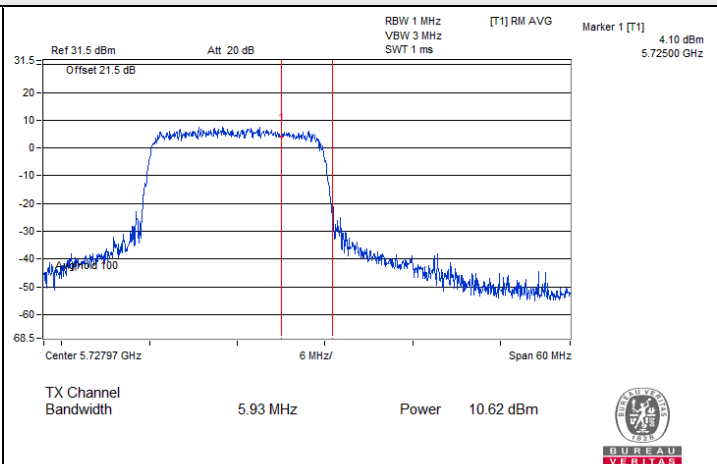


802.11ax (HE20) CDD / Chain 0 : CH 144 (U-NII-3)

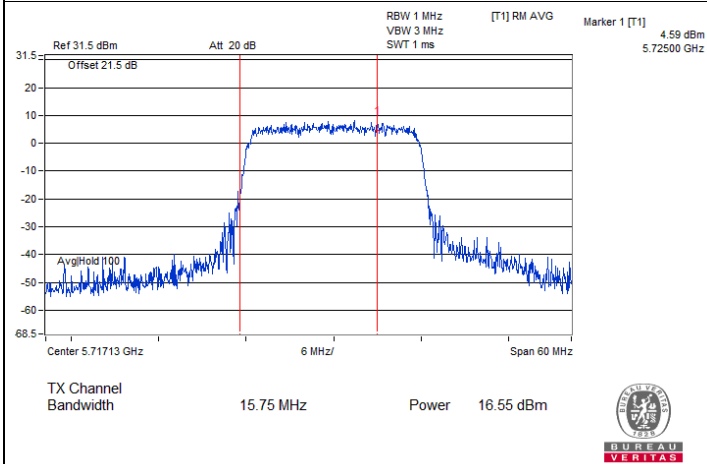
Spectrum Plot for channel straddling



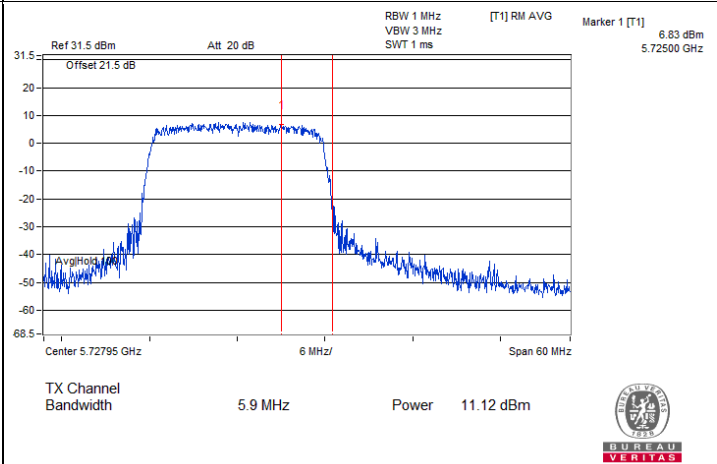
802.11ax (HE20) CDD / Chain 1 : CH 144 (U-NII-2C)



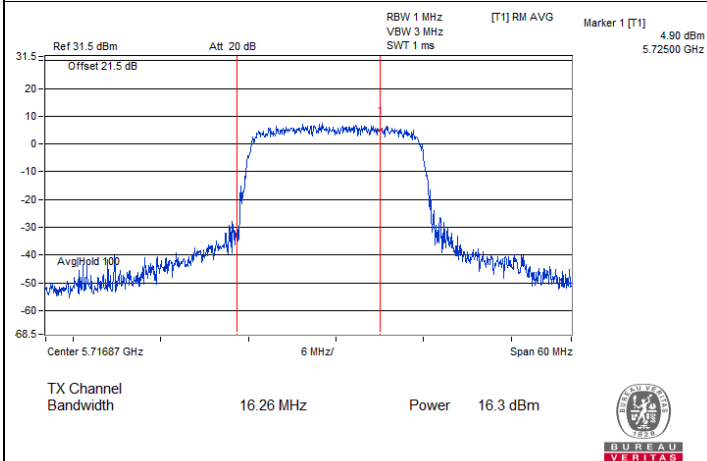
802.11ax (HE20) CDD / Chain 1 : CH 144 (U-NII-3)



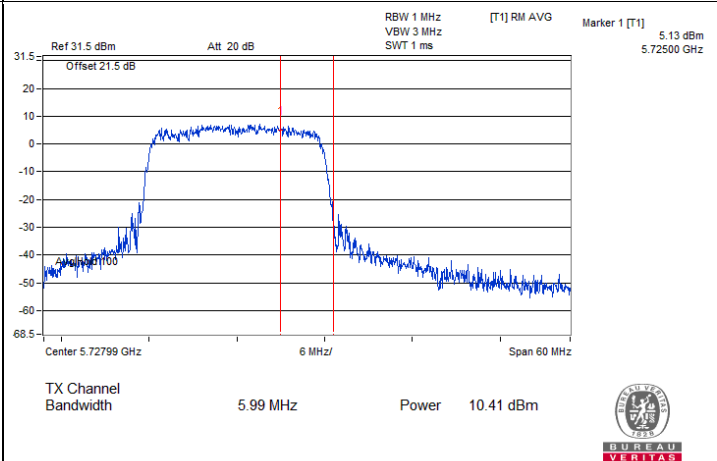
802.11ax (HE20) CDD / Chain 2 : CH 144 (U-NII-2C)



802.11ax (HE20) CDD / Chain 2 : CH 144 (U-NII-3)

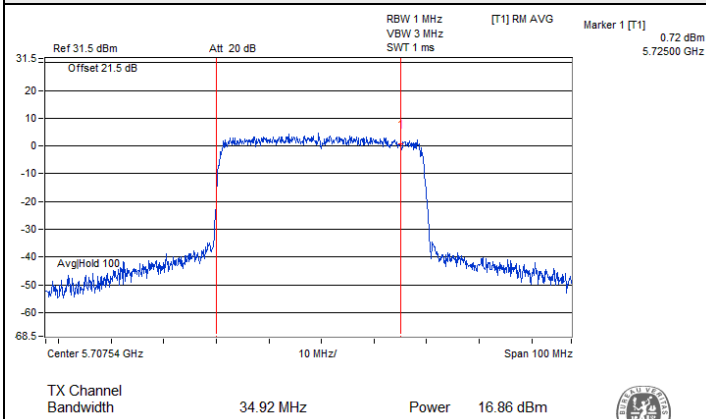


802.11ax (HE20) CDD / Chain 3 : CH 144 (U-NII-2C)

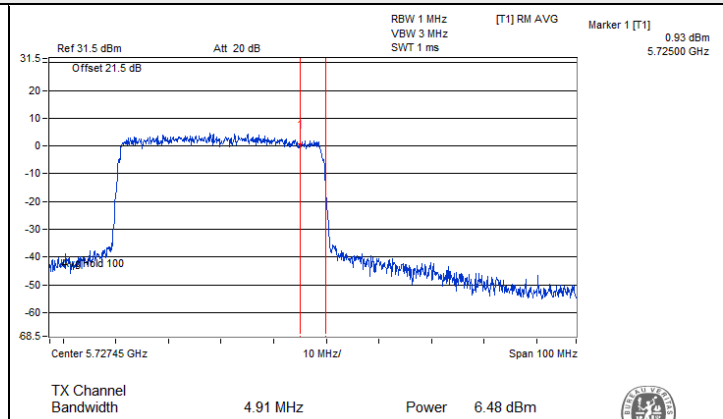


802.11ax (HE20) CDD / Chain 3 : CH 144 (U-NII-3)

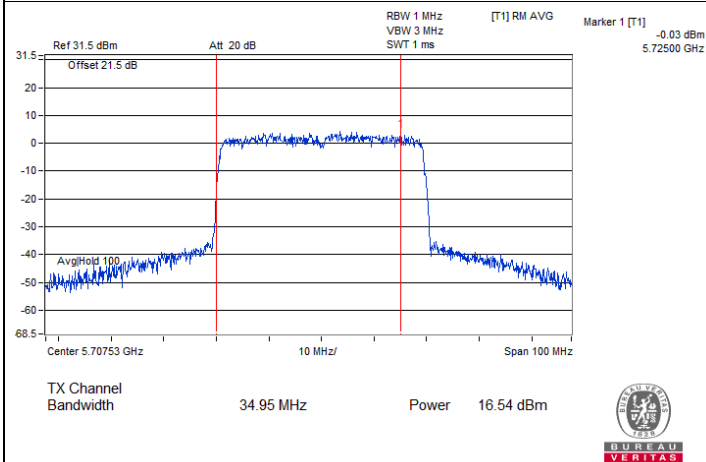
Spectrum Plot for channel straddling



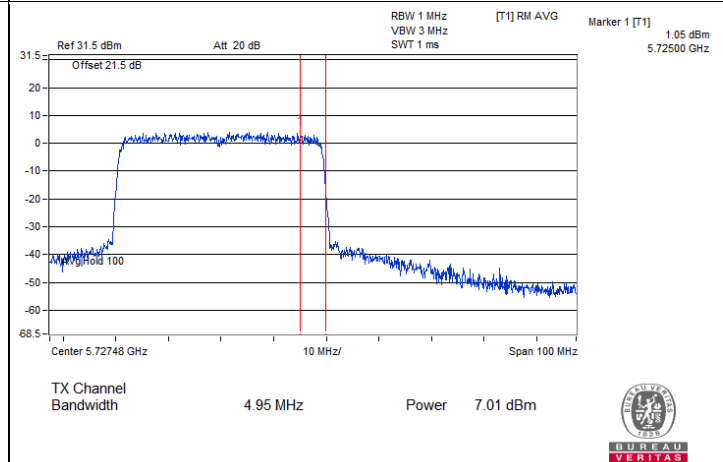
802.11ax (HE40) CDD / Chain 0 : CH 142 (U-NII-2C)



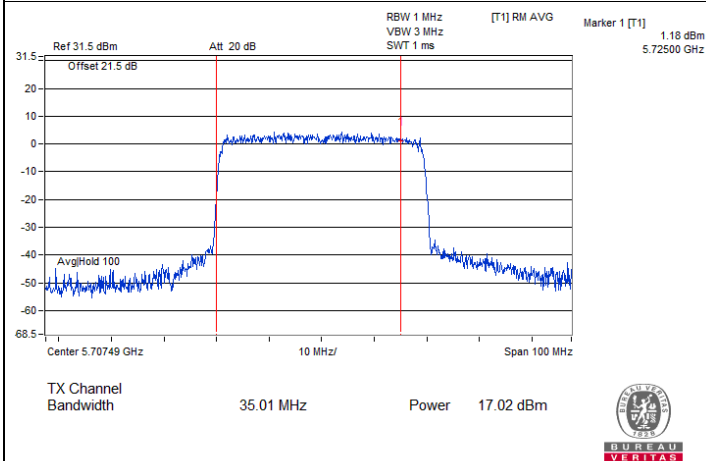
802.11ax (HE40) CDD / Chain 0 : CH 142 (U-NII-3)



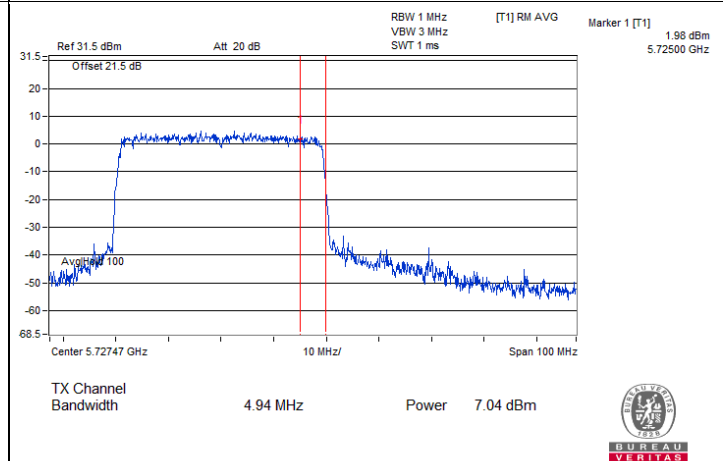
802.11ax (HE40) CDD / Chain 1 : CH 142 (U-NII-2C)



802.11ax (HE40) CDD / Chain 1 : CH 142 (U-NII-3)

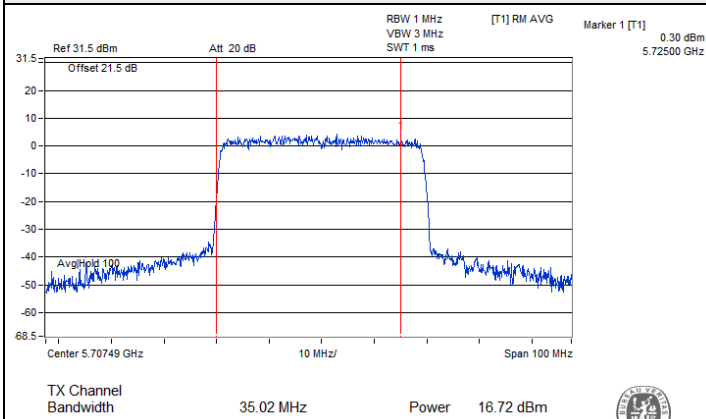


802.11ax (HE40) CDD / Chain 2 : CH 142 (U-NII-2C)

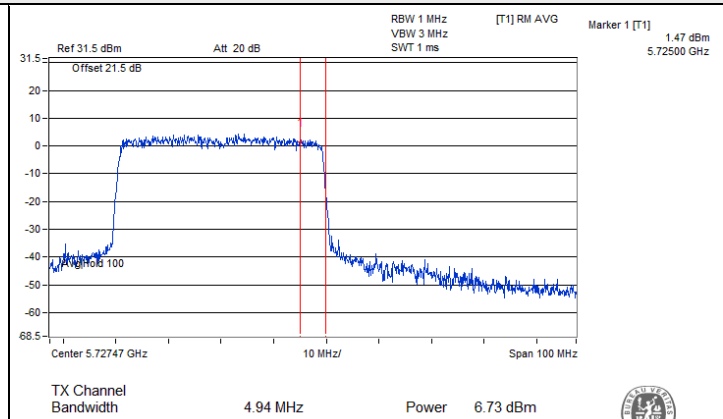


802.11ax (HE40) CDD / Chain 2 : CH 142 (U-NII-3)

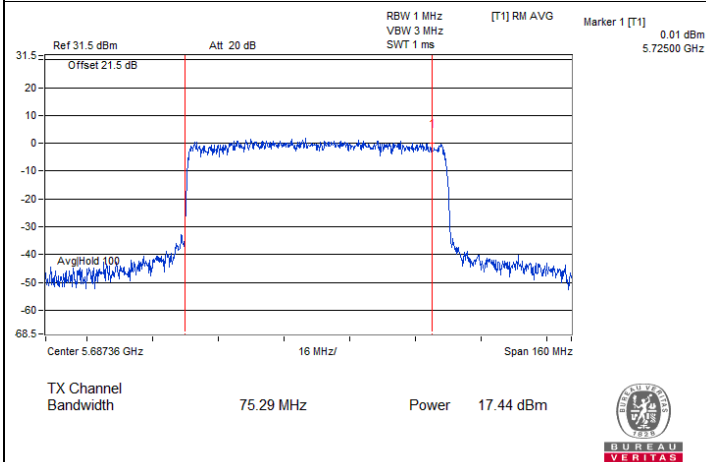
Spectrum Plot for channel straddling



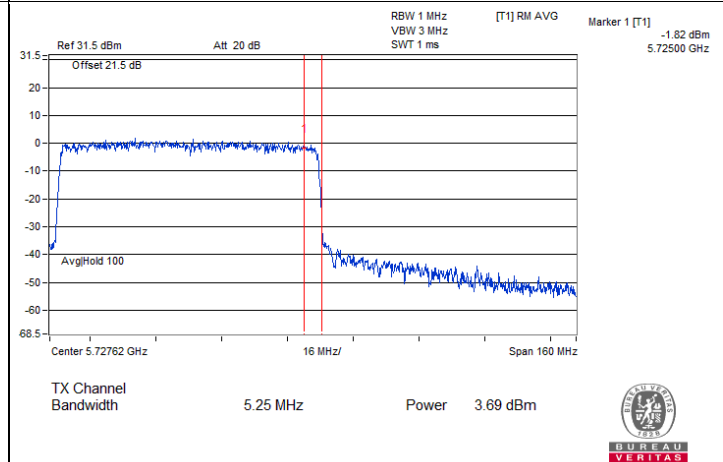
802.11ax (HE40) CDD / Chain 3 : CH 142 (U-NII-2C)



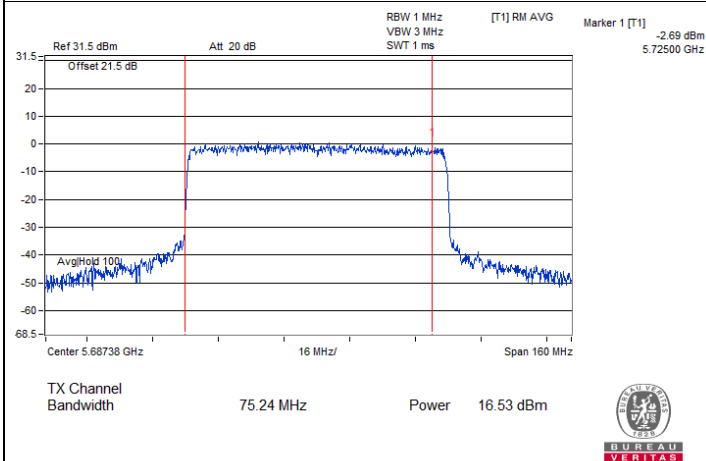
802.11ax (HE40) CDD / Chain 3 : CH 142 (U-NII-3)



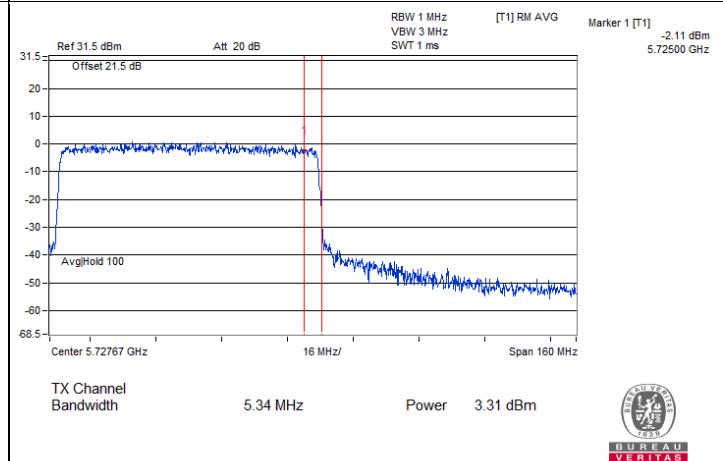
802.11ax (HE80) CDD / Chain 0 : CH 138 (U-NII-2C)



802.11ax (HE80) CDD / Chain 0 : CH 138 (U-NII-3)

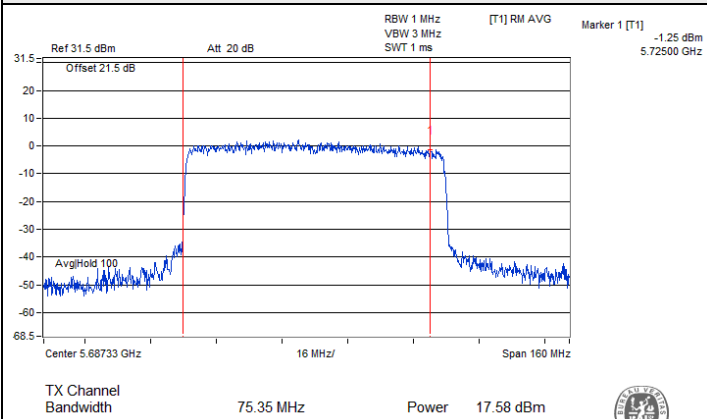


802.11ax (HE80) CDD / Chain 1 : CH 138 (U-NII-2C)

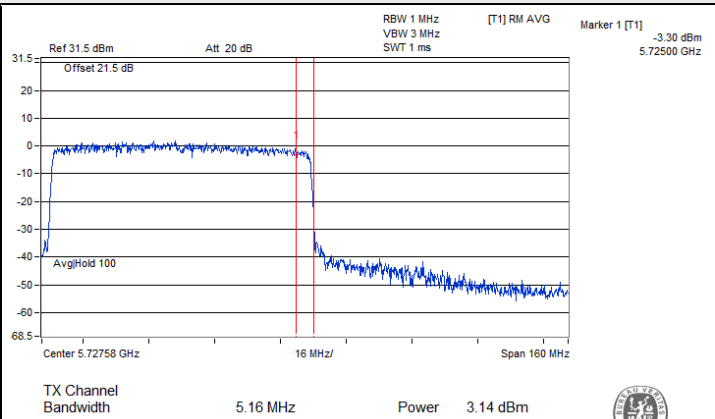


802.11ax (HE80) CDD / Chain 1 : CH 138 (U-NII-3)

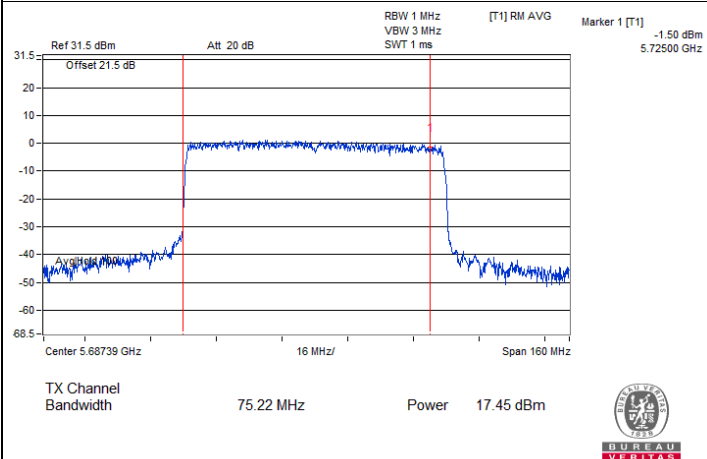
Spectrum Plot for channel straddling



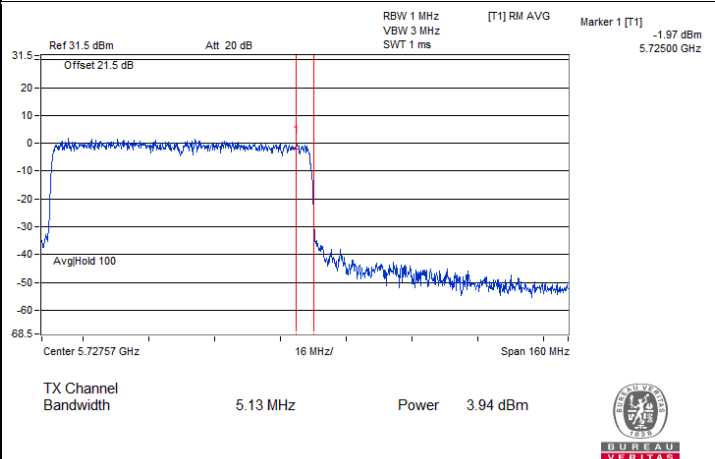
802.11ax (HE80) CDD / Chain 2 : CH 138 (U-NII-2C)



802.11ax (HE80) CDD / Chain 2 : CH 138 (U-NII-3)



802.11ax (HE80) CDD / Chain 3 : CH 138 (U-NII-2C)



802.11ax (HE80) CDD / Chain 3 : CH 138 (U-NII-3)

7.3 Power Spectral Density

Input Power:	120 Vac, 60 Hz	Environmental Conditions:	25°C, 60% RH	Tested By:	Willy Lin
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Mode A

802.11a

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	10.09	10.81	11.40	10.99	16.87	17	Pass
40	5200	11.00	10.96	10.95	10.62	16.91	17	Pass
48	5240	10.90	10.72	11.24	10.93	16.97	17	Pass
52	5260	4.05	4.26	4.53	4.83	10.45	11	Pass
60	5300	5.00	4.82	4.92	4.95	10.94	11	Pass
64	5320	4.72	4.70	4.58	4.75	10.71	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 5.58 dBi < 6dBi, so the power density limit shall not be reduced.
4. For U-NII-2A, the directional gain is 5.81 dBi < 6 dBi, so the power density limit shall not be reduced.

802.11ax (HE20)

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	7.18	8.18	8.54	8.14	14.06	17	Pass
40	5200	10.11	10.67	10.91	10.72	16.63	17	Pass
48	5240	9.80	10.58	11.18	11.11	16.72	17	Pass
52	5260	4.51	4.54	4.97	5.14	10.82	11	Pass
60	5300	4.82	4.63	4.93	4.81	10.82	11	Pass
64	5320	5.07	4.91	4.74	5.10	10.98	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 5.58 dBi < 6dBi, so the power density limit shall not be reduced.
4. For U-NII-2A, the directional gain is 5.81 dBi < 6 dBi, so the power density limit shall not be reduced.

802.11ax (HE40)

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	4.22	4.85	5.35	5.14	10.93	17	Pass
46	5230	7.50	7.76	8.64	7.67	13.94	17	Pass
54	5270	2.99	3.68	4.00	3.49	9.58	11	Pass
62	5310	2.81	3.39	3.49	3.02	9.21	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 5.58 dBi < 6dBi, so the power density limit shall not be reduced.
4. For U-NII-2A, the directional gain is 5.81 dBi < 6 dBi, so the power density limit shall not be reduced.

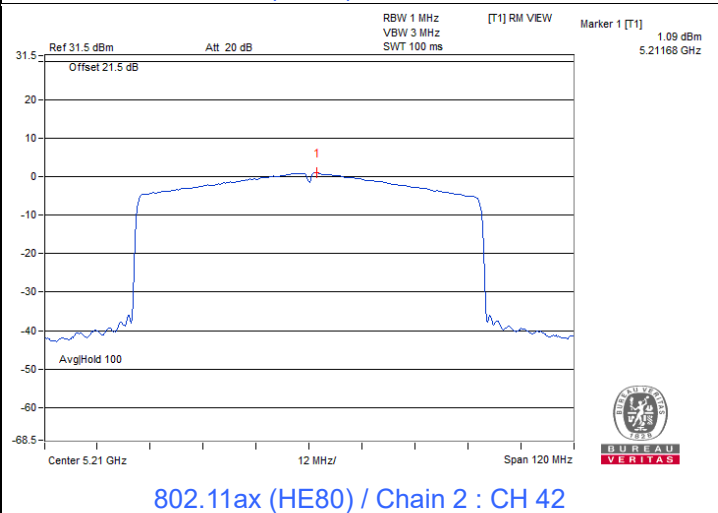
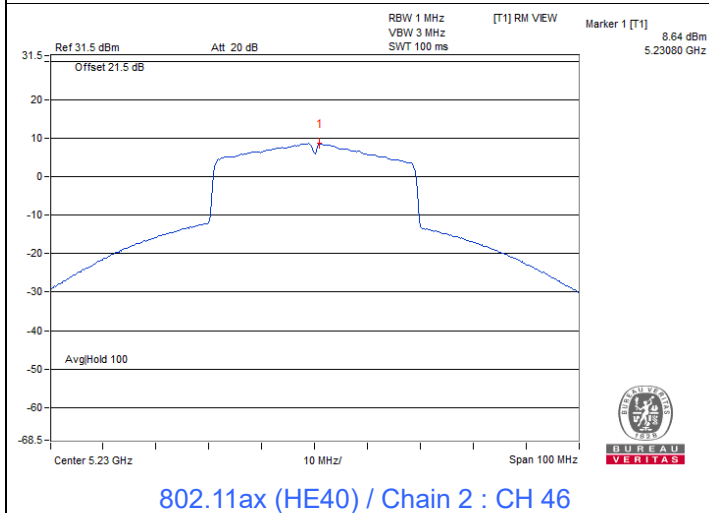
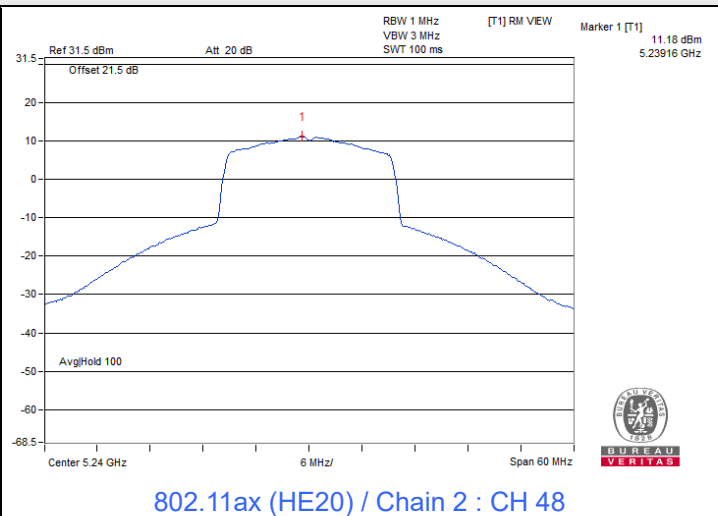
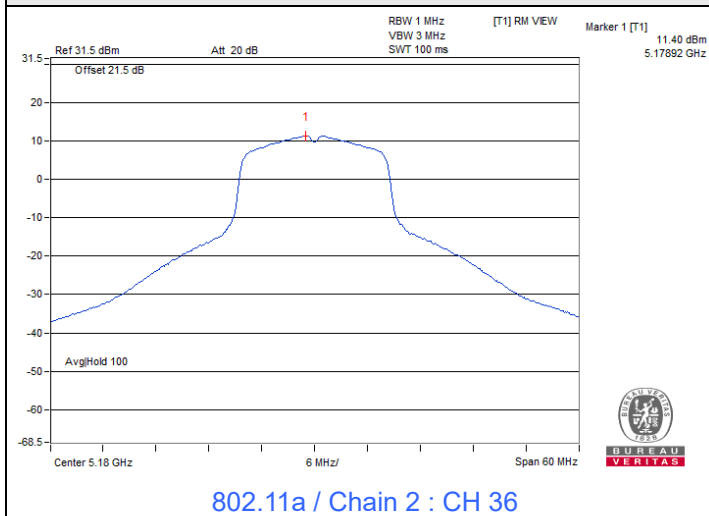
802.11ax (HE80)

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	-0.58	-0.31	1.07	0.33	6.20	17	Pass
58	5290	-1.13	-0.74	-0.23	-0.81	5.31	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 5.58 dBi < 6dBi, so the power density limit shall not be reduced.
4. For U-NII-2A, the directional gain is 5.81 dBi < 6 dBi, so the power density limit shall not be reduced.

Spectrum Plot of Maximum Value



Input Power:	120 Vac, 60 Hz	Environmental Conditions:	25°C, 65% RH	Tested By:	Katina Lu
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Mode B

802.11a

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	10.90	10.99	10.71	10.90	16.90	17	Pass
40	5200	10.68	10.91	10.99	10.92	16.90	17	Pass
48	5240	10.61	10.96	11.16	11.09	16.98	17	Pass
52	5260	4.29	4.48	4.63	5.18	10.68	11	Pass
60	5300	4.66	4.14	4.62	4.70	10.56	11	Pass
64	5320	4.78	4.23	4.69	4.52	10.58	11	Pass
100	5500	4.40	4.21	5.11	4.78	10.66	11	Pass
116	5580	4.64	4.20	5.23	4.80	10.75	11	Pass
140	5700	4.88	4.65	5.08	5.20	10.98	11	Pass
144 (U-NII-2C)	5720	4.88	4.53	4.90	5.08	10.87	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 5.58 dBi < 6dBi, so the power density limit shall not be reduced.
4. For U-NII-2A, the directional gain is 5.81 dBi < 6 dBi, so the power density limit shall not be reduced.
5. For U-NII-2C, the directional gain is 5.7 dBi < 6 dBi, so the power density limit shall not be reduced.

802.11ax (HE20)

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	8.88	9.16	9.38	8.84	15.09	17	Pass
40	5200	10.58	10.60	10.77	10.63	16.67	17	Pass
48	5240	10.57	11.04	10.97	11.00	16.92	17	Pass
52	5260	4.26	4.48	4.71	5.23	10.71	11	Pass
60	5300	5.06	4.72	4.86	5.05	10.95	11	Pass
64	5320	5.00	4.71	4.96	4.88	10.91	11	Pass
100	5500	4.52	4.18	4.92	4.85	10.65	11	Pass
116	5580	4.88	4.50	5.29	5.05	10.96	11	Pass
140	5700	4.83	4.59	4.95	5.16	10.91	11	Pass
144 (U-NII-2C)	5720	4.81	4.40	4.74	4.97	10.76	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 5.58 dBi < 6dBi, so the power density limit shall not be reduced.
4. For U-NII-2A, the directional gain is 5.81 dBi < 6 dBi, so the power density limit shall not be reduced.
5. For U-NII-2C, the directional gain is 5.7 dBi < 6 dBi, so the power density limit shall not be reduced.

802.11ax (HE40)

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	4.00	3.57	3.61	3.69	9.74	17	Pass
46	5230	9.05	8.83	8.91	9.07	14.99	17	Pass
54	5270	2.55	2.57	2.68	2.93	8.71	11	Pass
62	5310	2.80	2.45	2.59	2.60	8.63	11	Pass
102	5510	2.66	2.38	3.06	2.99	8.80	11	Pass
110	5550	3.05	2.39	2.89	2.47	8.73	11	Pass
134	5670	2.85	2.47	2.74	3.13	8.82	11	Pass
142 (U-NII-2C)	5710	2.56	2.35	2.42	2.75	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 5.58 dBi < 6dBi, so the power density limit shall not be reduced.
4. For U-NII-2A, the directional gain is 5.81 dBi < 6 dBi, so the power density limit shall not be reduced.
5. For U-NII-2C, the directional gain is 5.7 dBi < 6 dBi, so the power density limit shall not be reduced.

802.11ax (HE80)

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	0.52	0.24	0.38	0.37	6.40	17	Pass
58	5290	-1.83	-1.71	-1.57	-1.07	4.49	11	Pass
106	5530	-1.29	-1.17	-0.83	-0.87	4.98	11	Pass
122	5610	-0.69	-1.00	-0.52	-0.69	5.30	11	Pass
138 (U-NII-2C)	5690	-1.12	-1.30	-1.17	-0.78	4.93	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 5.58 dBi < 6dBi, so the power density limit shall not be reduced.
4. For U-NII-2A, the directional gain is 5.81 dBi < 6 dBi, so the power density limit shall not be reduced.
5. For U-NII-2C, the directional gain is 5.7 dBi < 6 dBi, so the power density limit shall not be reduced.

802.11a

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	-2.85	-2.94	-2.69	-2.63	3.24	5.46	30	Pass
149	5745	6.51	6.83	6.96	6.17	12.65	14.87	30	Pass
157	5785	5.94	6.30	6.52	5.83	12.18	14.40	30	Pass
165	5825	6.01	6.29	6.52	5.92	12.21	14.43	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 5.88 dBi < 6 dBi, so the power density limit shall not be reduced.

802.11ax (HE20)

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	-2.64	-2.92	-2.61	-2.40	3.38	5.60	30	Pass
149	5745	6.12	6.59	6.54	5.98	12.34	14.56	30	Pass
157	5785	5.76	6.01	6.07	5.63	11.89	14.11	30	Pass
165	5825	5.68	5.92	5.78	5.63	11.77	13.99	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 5.88 dBi < 6 dBi, so the power density limit shall not be reduced.

802.11ax (HE40)

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	-6.96	-6.86	-6.85	-6.53	-0.78	1.44	30	Pass
151	5755	3.73	3.79	3.82	3.69	9.78	12.00	30	Pass
159	5795	3.27	3.52	3.69	3.15	9.43	11.65	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 5.88 dBi < 6 dBi, so the power density limit shall not be reduced.

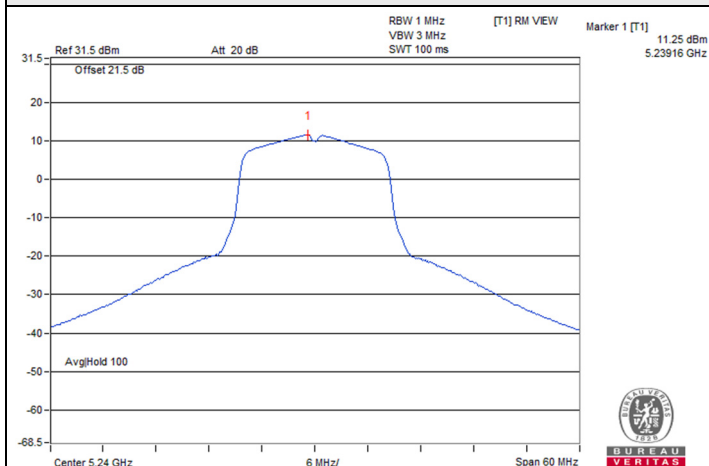
802.11ax (HE80)

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	-12.21	-11.74	-11.99	-11.52	-5.84	-3.62	30	Pass
155	5775	-0.71	-0.30	-0.12	-0.78	5.55	7.77	30	Pass

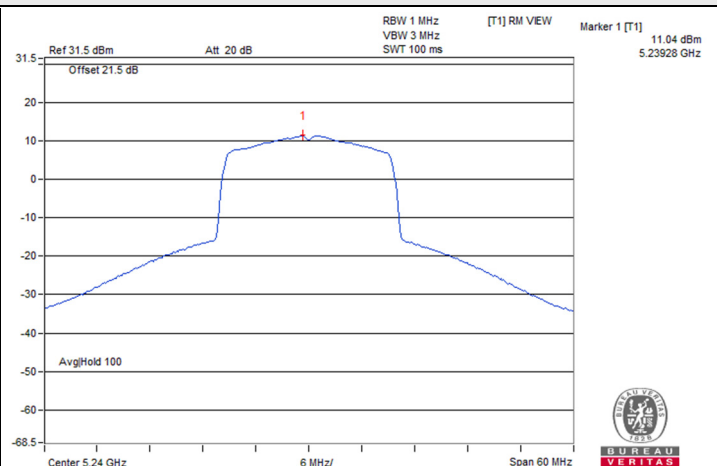
Notes:

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 5.88 dBi < 6 dBi, so the power density limit shall not be reduced.

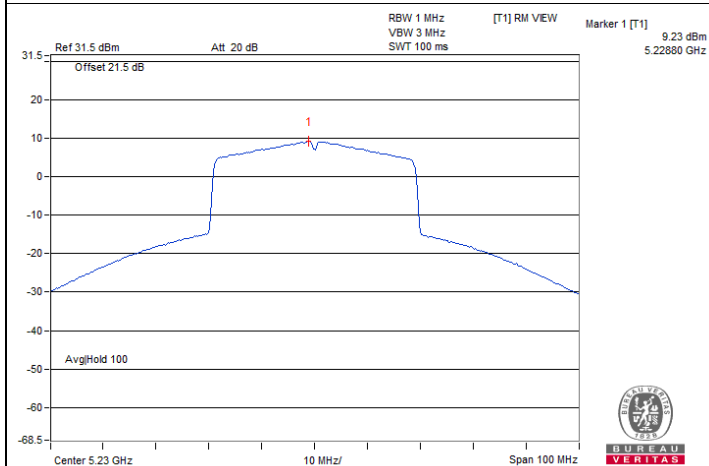
Spectrum Plot of Maximum Value



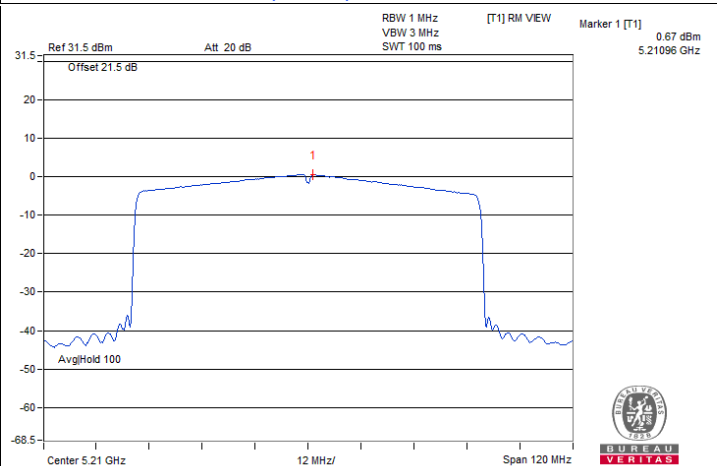
802.11a / Chain 2 : CH 48



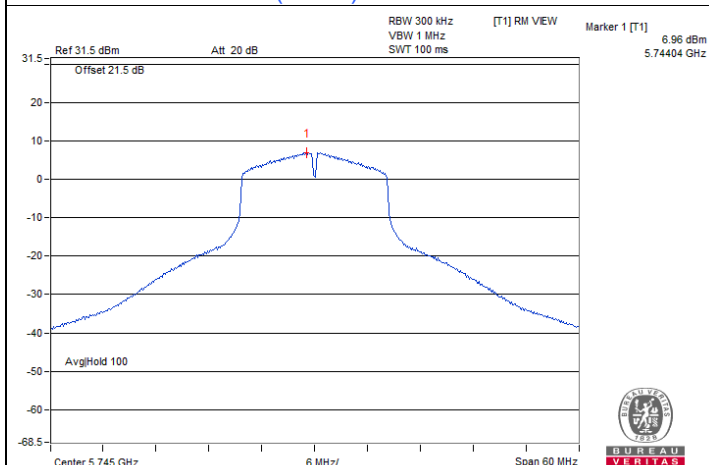
802.11ax (HE20) / Chain 1 : CH 48



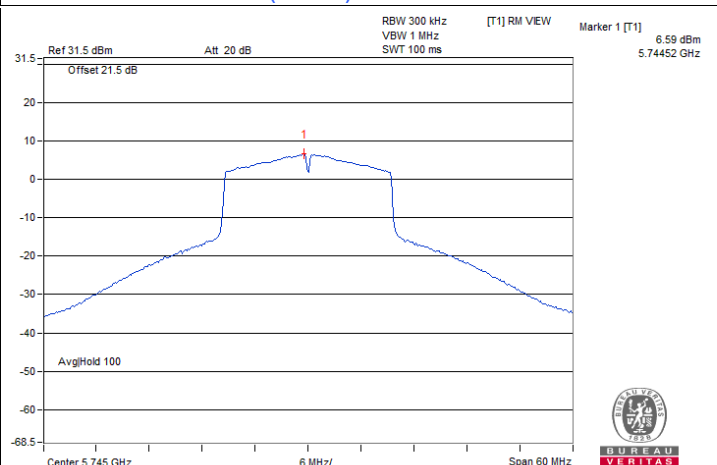
802.11ax (HE40) / Chain 3 : CH 46



802.11ax (HE80) / Chain 0 : CH 42

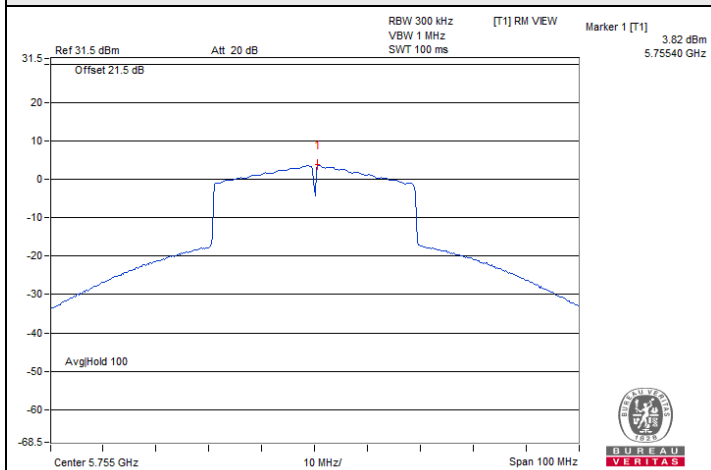


802.11a / Chain 2 : CH 149

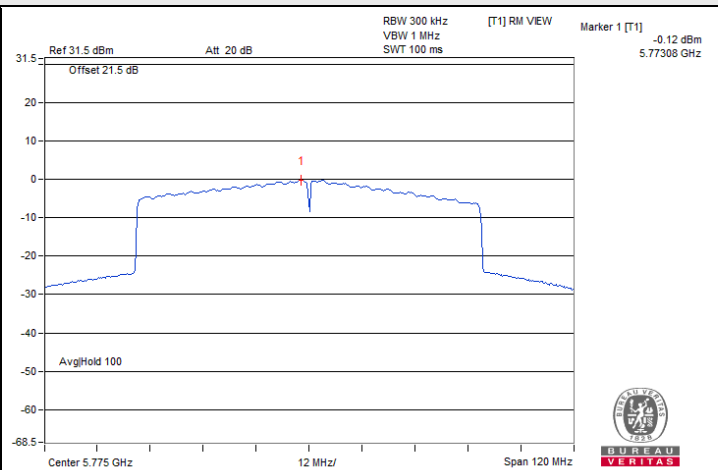


802.11ax (HE20) / Chain 1 : CH 149

Spectrum Plot of Maximum Value



802.11ax (HE40) / Chain 2 : CH 151



802.11ax (HE80) / Chain 2 : CH 155

Input Power:	120 Vac, 60 Hz	Environmental Conditions:	25°C, 60% RH	Tested By:	Willy Lin
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Mode C

802.11a

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			
100	5500	4.54	4.41	4.61	4.59	10.56	10.94	Pass
116	5580	4.83	4.40	4.77	5.04	10.79	10.94	Pass
140	5700	4.91	4.65	5.18	4.34	10.80	10.94	Pass
144 (U-NII-2C)	5720	4.71	4.55	4.89	4.28	10.63	10.94	Pass

Notes:

- 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.
- Directional gain is the measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
- For U-NII-2C, the directional gain is 6.06 dBi > 6 dBi, so the power density limit shall be reduced to $11-(6.06-6) = 10.94$ dBm/MHz.

802.11ax (HE20)

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			
100	5500	4.62	4.37	4.70	4.52	10.57	10.94	Pass
116	5580	4.77	4.27	4.66	4.92	10.68	10.94	Pass
140	5700	4.78	4.47	5.02	4.12	10.63	10.94	Pass
144 (U-NII-2C)	5720	4.79	4.62	4.98	4.38	10.72	10.94	Pass

Notes:

- 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.
- Directional gain is the measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
- For U-NII-2C, the directional gain is 6.06 dBi > 6 dBi, so the power density limit shall be reduced to $11-(6.06-6) = 10.94$ dBm/MHz.

802.11ax (HE40)

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			
102	5510	2.05	1.84	2.00	2.39	8.10	10.94	Pass
110	5550	2.65	2.42	2.89	2.95	8.75	10.94	Pass
134	5670	2.14	1.86	2.18	2.19	8.12	10.94	Pass
142 (U-NII-2C)	5710	2.23	1.84	2.25	1.79	8.05	10.94	Pass

Notes:

- 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.
- Directional gain is the measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
- For U-NII-2C, the directional gain is 6.06 dBi > 6 dBi, so the power density limit shall be reduced to $11-(6.06-6) = 10.94$ dBm/MHz.

802.11ax (HE80)

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			
106	5530	-0.97	-0.86	-0.73	-0.63	5.23	10.94	Pass
122	5610	-0.75	-1.12	-0.67	-0.09	5.38	10.94	Pass
138 (U-NII-2C)	5690	-1.80	-3.15	-0.23	-1.37	4.51	10.94	Pass

Notes:

- 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.
- Directional gain is the measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
- For U-NII-2C, the directional gain is 6.06 dBi > 6 dBi, so the power density limit shall be reduced to $11-(6.06-6) = 10.94$ dBm/MHz.

802.11ax (HE160)

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			
114	5570	-4.71	-4.66	-4.35	-4.18	1.55	10.94	Pass

Notes:

- 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.
- Directional gain is the measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
- For U-NII-2C, the directional gain is 6.06 dBi > 6 dBi, so the power density limit shall be reduced to $11-(6.06-6) = 10.94$ dBm/MHz.

802.11a

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	-1.32	-1.57	-0.88	-1.62	4.68	6.90	29.24	Pass
149	5745	5.73	6.21	6.30	6.63	12.25	14.47	29.24	Pass
157	5785	5.47	5.15	5.50	5.64	11.46	13.68	29.24	Pass
165	5825	5.65	5.45	5.47	5.09	11.44	13.66	29.24	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 6.76 dBi > 6 dBi, so the power density limit shall be reduced to $30-(6.76-6) = 29.24$ dBm/500kHz.

802.11ax (HE20)

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	-0.99	-1.13	-0.77	-1.26	4.99	7.21	29.24	Pass
149	5745	5.08	5.48	5.45	5.83	11.49	13.71	29.24	Pass
157	5785	4.92	4.29	4.74	5.00	10.77	12.99	29.24	Pass
165	5825	4.90	4.79	4.73	4.00	10.64	12.86	29.24	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 6.76 dBi > 6 dBi, so the power density limit shall be reduced to $30-(6.76-6) = 29.24$ dBm/500kHz.

802.11ax (HE40)

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	-4.34	-4.50	-4.07	-4.62	1.64	3.86	29.24	Pass
151	5755	2.08	2.41	2.36	2.83	8.45	10.67	29.24	Pass
159	5795	1.64	1.00	1.49	1.48	7.43	9.65	29.24	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 6.76 dBi > 6 dBi, so the power density limit shall be reduced to $30-(6.76-6) = 29.24$ dBm/500kHz.

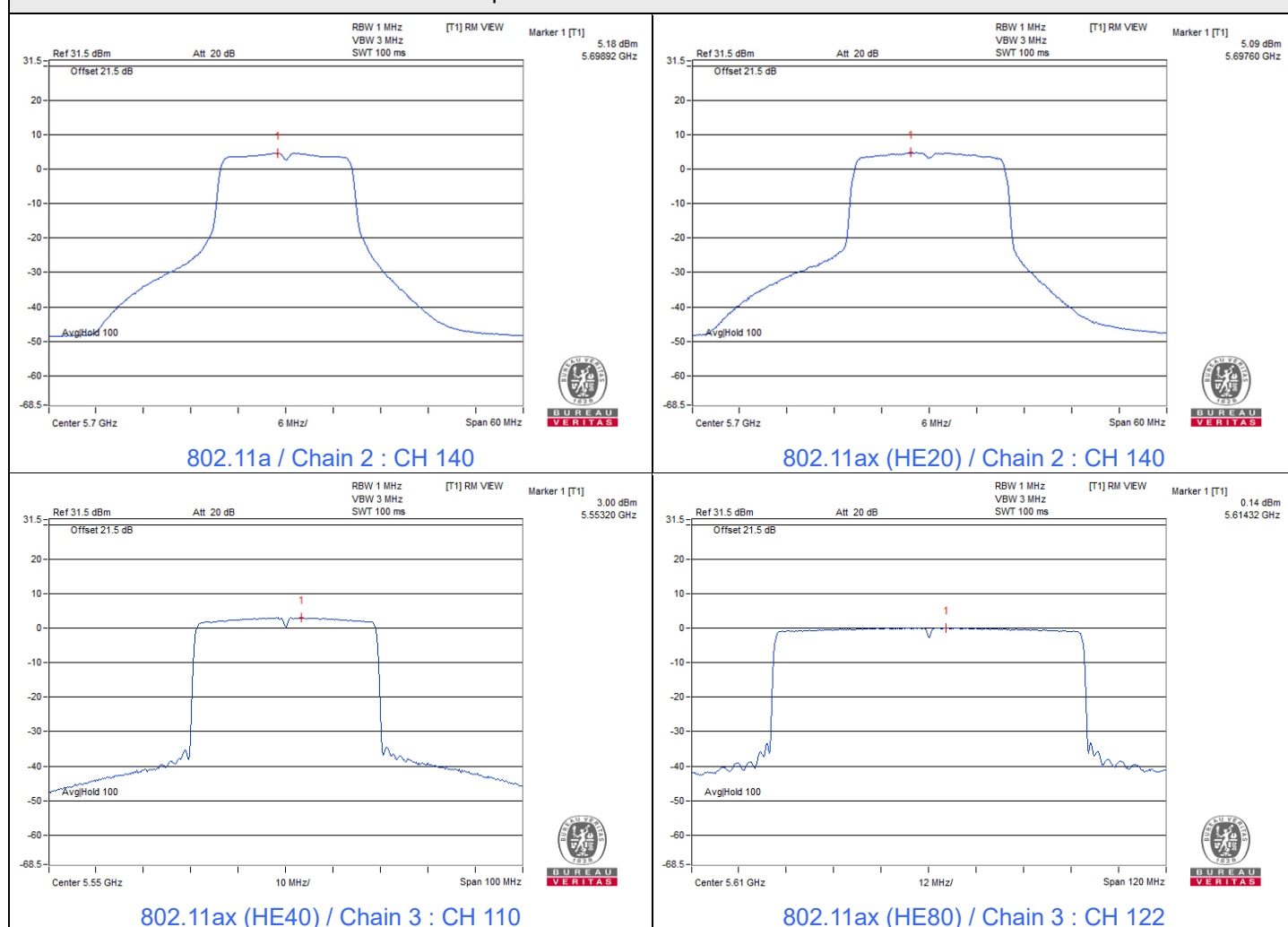
802.11ax (HE80)

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	-8.34	-9.50	-7.82	-8.16	-2.39	-0.17	29.24	Pass
155	5775	-3.50	-1.49	-3.12	-2.91	3.34	5.56	29.24	Pass

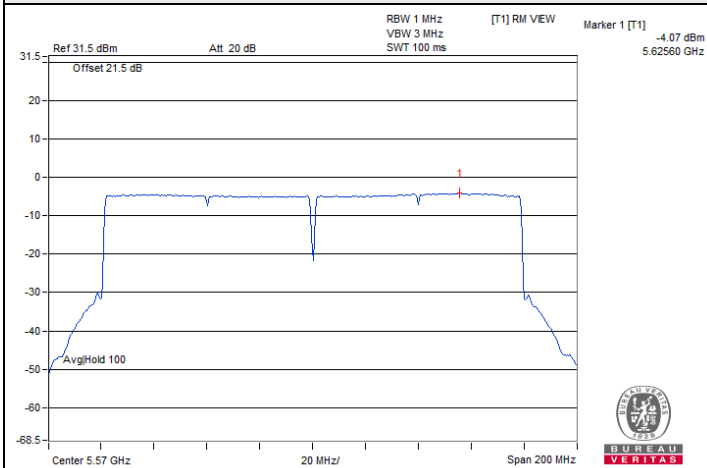
Notes:

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 6.76 dBi > 6 dBi, so the power density limit shall be reduced to $30 - (6.76 - 6) = 29.24$ dBm/500kHz.

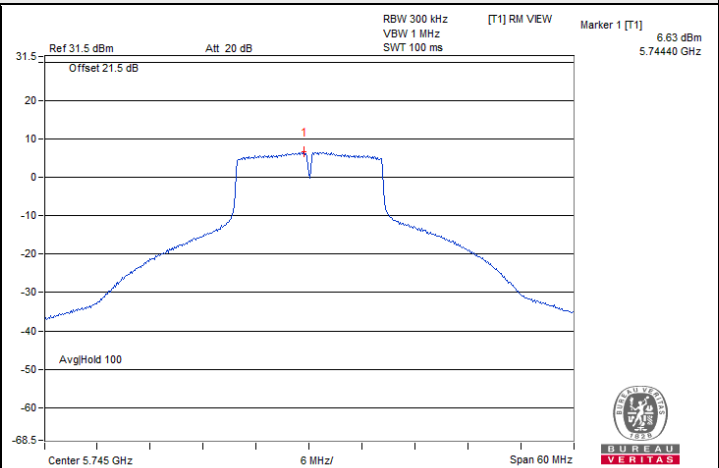
Spectrum Plot of Maximum Value



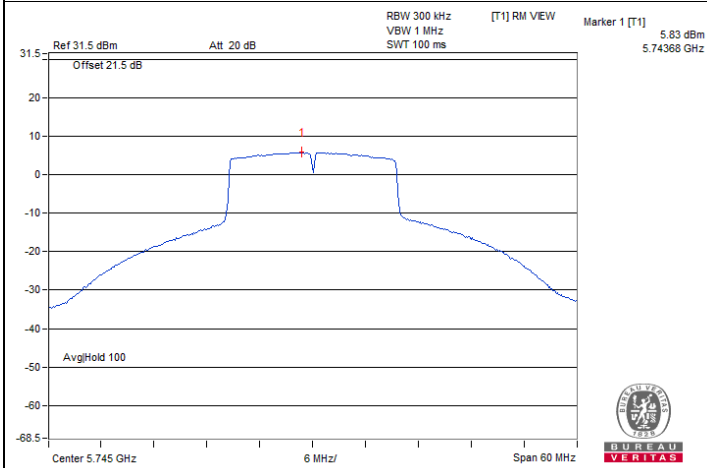
Spectrum Plot of Maximum Value



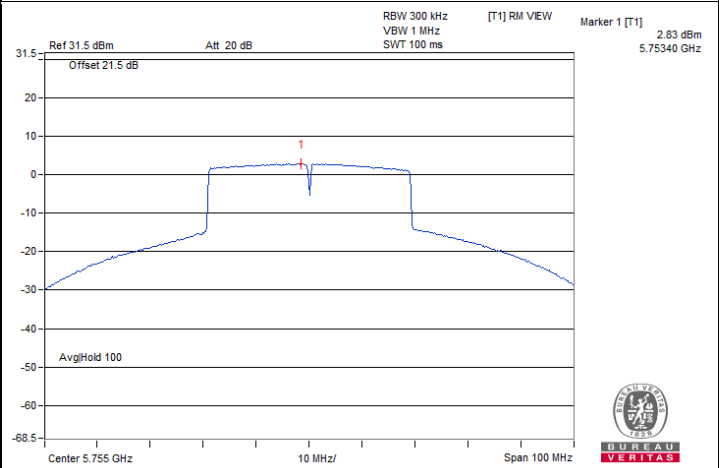
802.11ax (HE160) / Chain 3 : CH 114



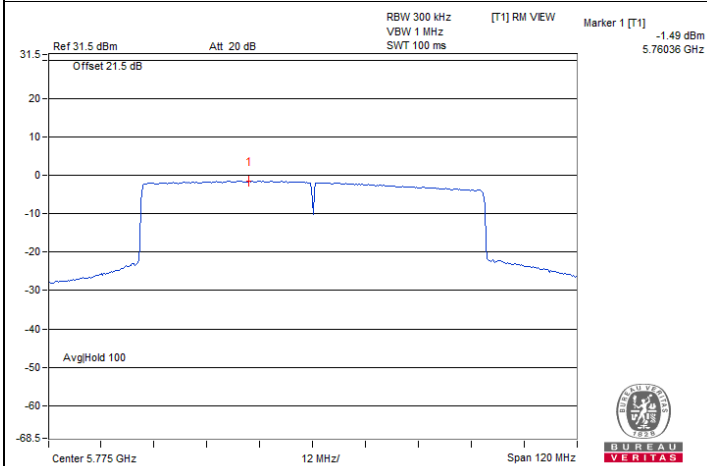
802.11a / Chain 3 : CH 149



802.11ax (HE20) / Chain 3 : CH 149



802.11ax (HE40) / Chain 3 : CH 151



802.11ax (HE80) / Chain 1 : CH 155

7.4 6 dB Bandwidth

Input Power:	120 Vac, 60 Hz	Environmental Conditions:	25°C, 65% RH	Tested By:	Katina Lu
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Mode B

802.11a

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	1.28	2.51	2.43	2.47	0.5	Pass
149	5745	14.99	14.01	15.05	15.00	0.5	Pass
157	5785	13.54	14.44	15.04	15.00	0.5	Pass
165	5825	15.06	12.63	15.11	13.84	0.5	Pass

802.11ax (HE20)

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	4.08	4.18	1.73	3.49	0.5	Pass
149	5745	14.74	15.09	13.25	15.39	0.5	Pass
157	5785	16.56	15.01	18.16	15.53	0.5	Pass
165	5825	16.40	17.68	17.64	15.05	0.5	Pass

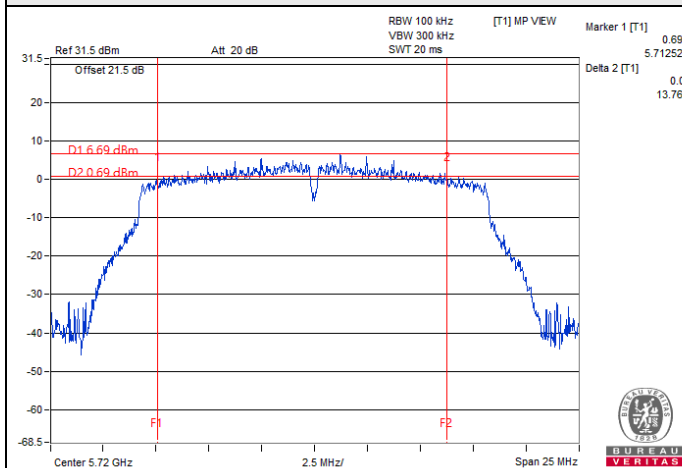
802.11ax (HE40)

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	2.70	2.43	2.48	2.52	0.5	Pass
151	5755	33.45	29.71	32.55	35.10	0.5	Pass
159	5795	34.16	32.56	35.09	35.83	0.5	Pass

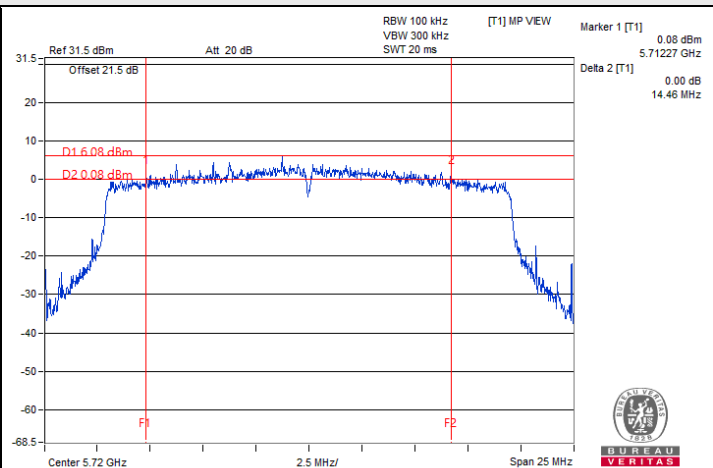
802.11ax (HE80)

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	2.50	3.20	2.40	1.22	0.5	Pass
155	5775	64.23	68.87	61.27	75.47	0.5	Pass

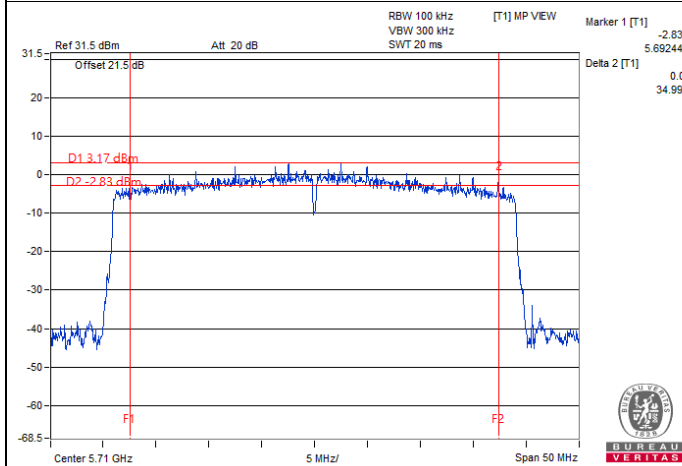
Spectrum Plot of Minimum Value



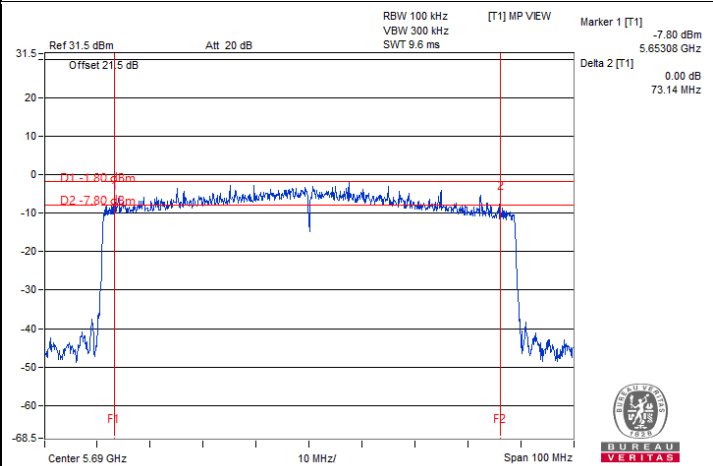
802.11a / Chain 0 : CH 144 (U-NII-3)



802.11ax (HE20) / Chain 2 : CH 144 (U-NII-3)



802.11ax (HE40) / Chain 1 : CH 142 (U-NII-3)



802.11ax (HE80) / Chain 3 : CH 138 (U-NII-3)

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

Input Power:	120 Vac, 60 Hz	Environmental Conditions:	25°C, 60% RH	Tested By:	Willy Lin
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Mode C

802.11a

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	3.18	3.20	3.18	3.19	0.5	Pass
149	5745	16.33	16.29	16.34	16.33	0.5	Pass
157	5785	16.32	16.32	16.32	16.31	0.5	Pass
165	5825	16.31	16.30	16.31	16.32	0.5	Pass

802.11ax (HE20)

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	4.46	4.44	4.48	4.55	0.5	Pass
149	5745	18.43	18.61	18.22	18.47	0.5	Pass
157	5785	18.46	17.92	17.96	18.61	0.5	Pass
165	5825	18.07	18.53	18.48	18.41	0.5	Pass

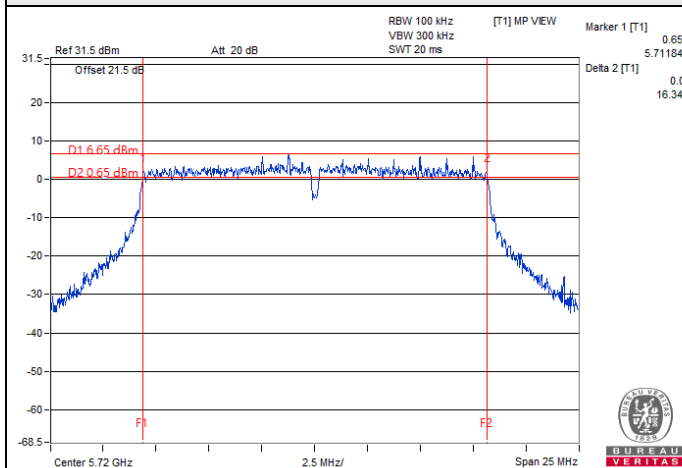
802.11ax (HE40)

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	3.93	3.94	3.97	4.00	0.5	Pass
151	5755	38.02	37.80	37.94	37.99	0.5	Pass
159	5795	37.53	37.71	37.05	37.02	0.5	Pass

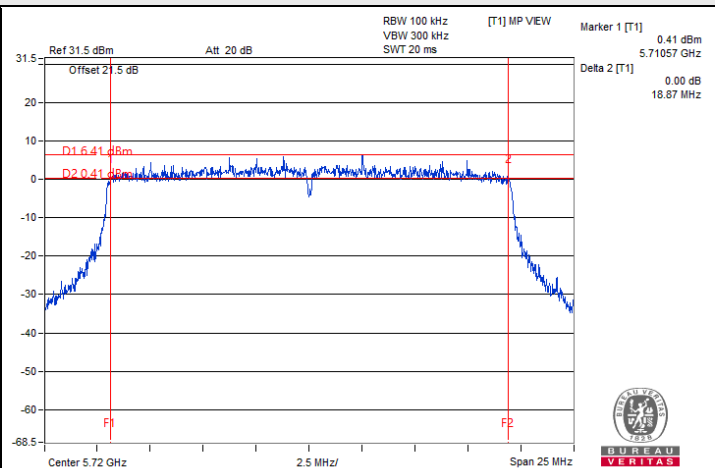
802.11ax (HE80)

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	3.23	3.67	3.23	3.93	0.5	Pass
155	5775	74.37	67.44	77.15	69.82	0.5	Pass

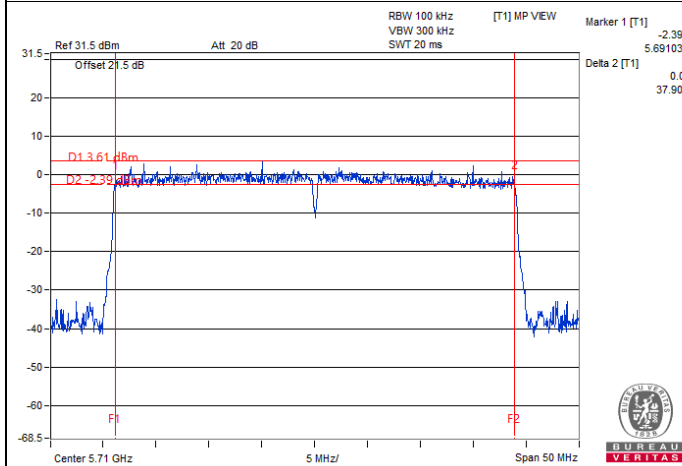
Spectrum Plot of Minimum Value



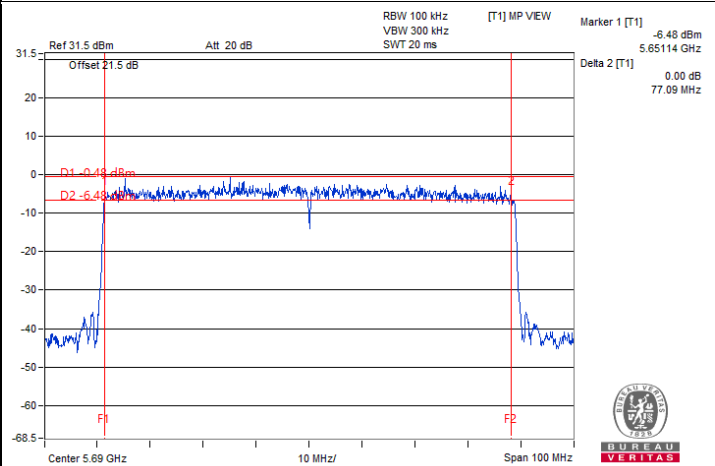
802.11a / Chain 0 : CH 144 (U-NII-3)



802.11ax (HE20) / Chain 1 : CH 144 (U-NII-3)



802.11ax (HE40) / Chain 0 : CH 142 (U-NII-3)



802.11ax (HE80) / Chain 0 : 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:	25°C, 60% RH	Tested By:	Willy Lin
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Mode A

802.11a

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
36	5180	16.74	16.68	16.86	16.68
40	5200	18.36	19.20	19.26	16.68
48	5240	20.28	18.06	17.94	17.82
52	5260	16.32	16.38	16.32	16.44
60	5300	16.44	16.44	16.38	16.44
64	5320	16.38	16.38	16.26	16.38

802.11ax (HE20)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
36	5180	18.90	18.78	18.90	18.90
40	5200	19.20	19.26	19.20	19.08
48	5240	19.14	19.08	19.08	19.02
52	5260	18.84	18.90	18.84	18.72
60	5300	18.84	18.90	18.84	18.84
64	5320	18.90	18.78	18.84	18.84

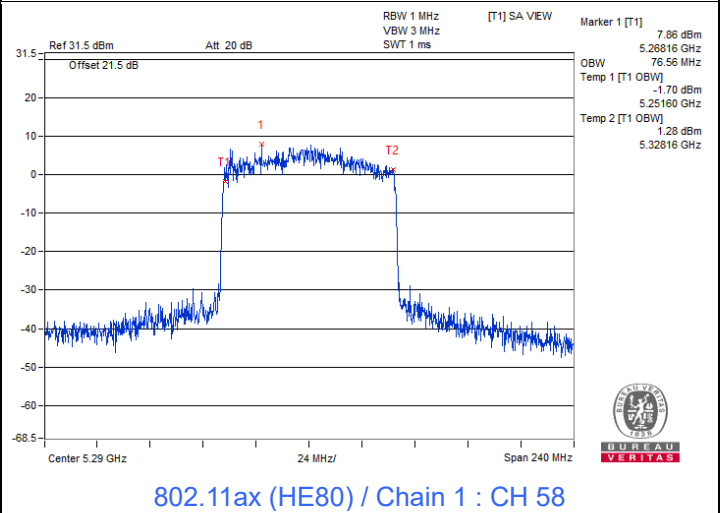
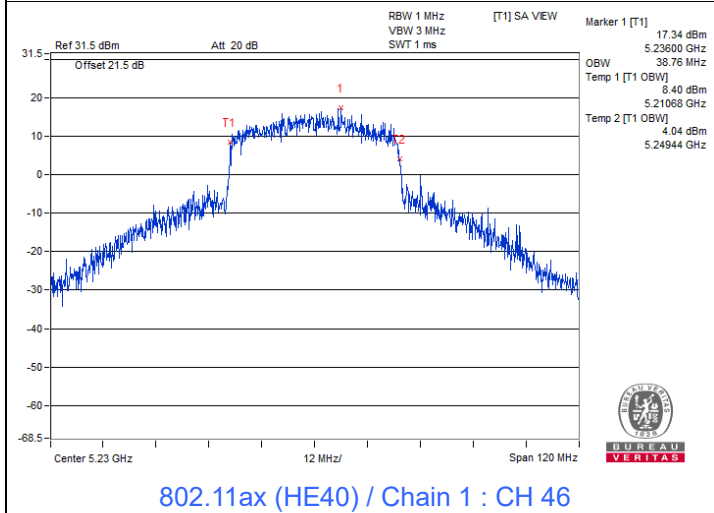
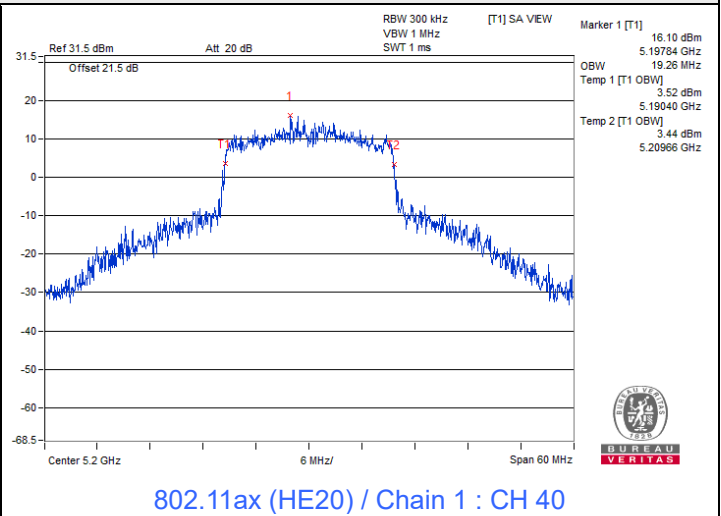
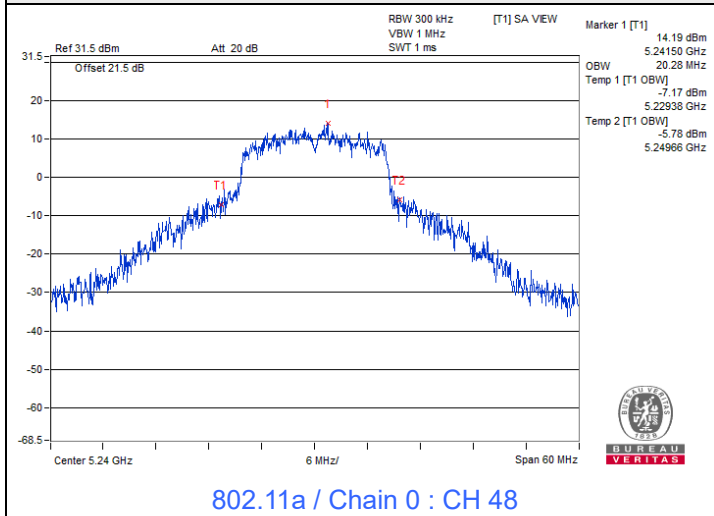
802.11ax (HE40)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
38	5190	37.56	37.80	37.92	37.68
46	5230	38.40	38.76	38.64	38.04
54	5270	37.44	37.56	37.56	37.68
62	5310	37.80	37.56	37.44	37.68

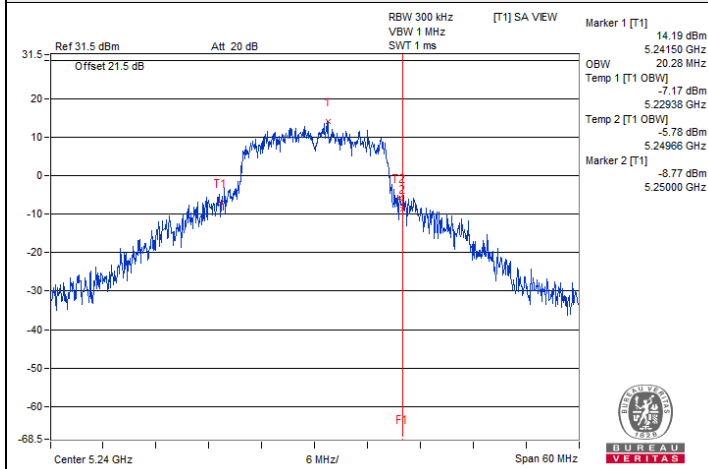
802.11ax (HE80)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
42	5210	76.32	76.32	76.08	76.56
58	5290	76.08	76.56	76.08	76.56

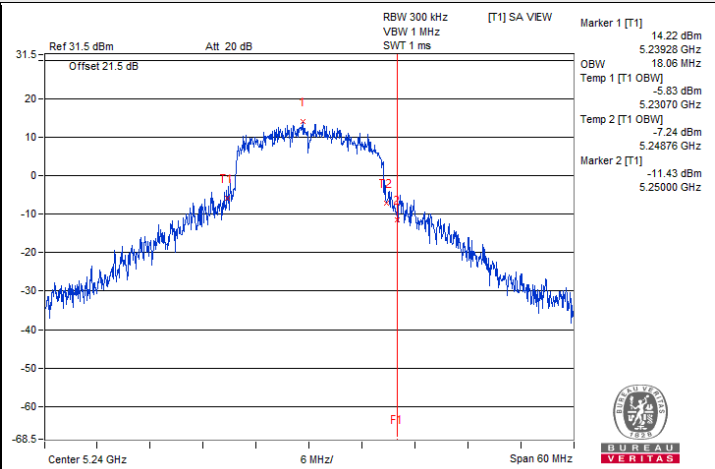
Spectrum Plot of Maximum Value



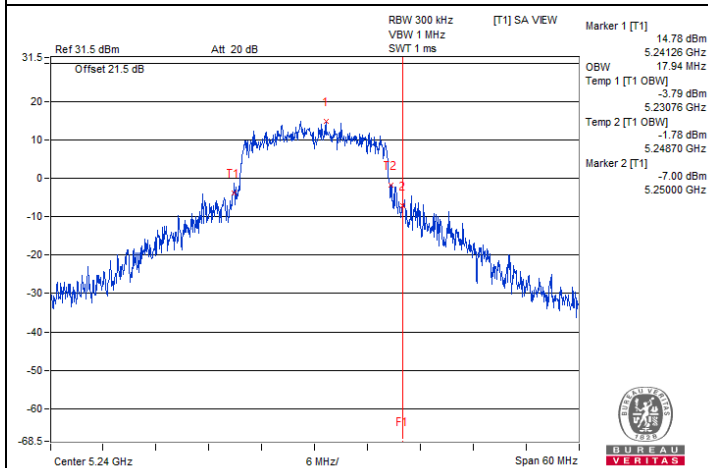
Spectrum Plot for nearby DFS band (DFS is required, if 99% OCP straddle into U-NII-2A)



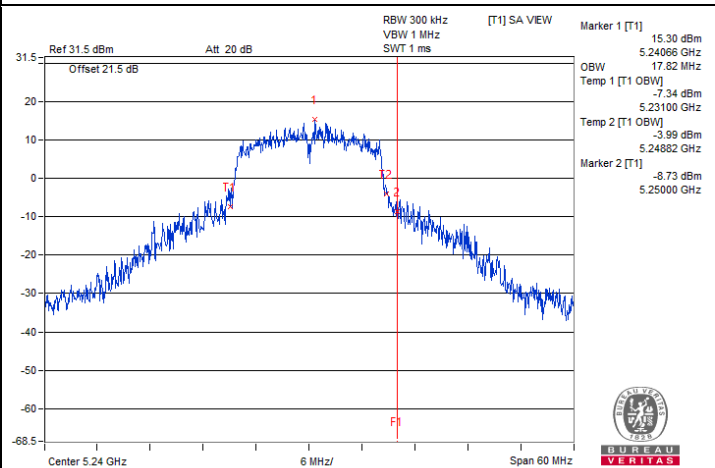
802.11a / Chain 0 : CH 48



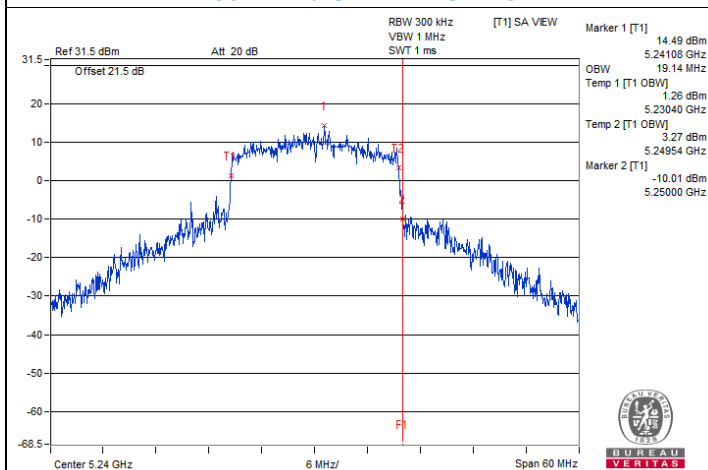
802.11a / Chain 1 : CH 48



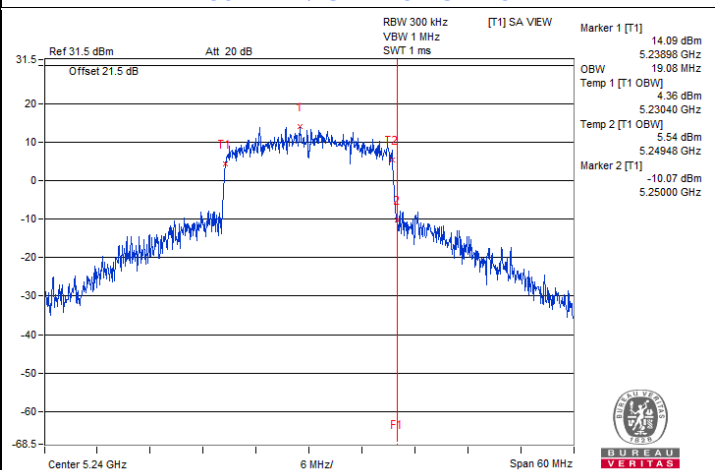
802.11a / Chain 2 : CH 48



802.11a / Chain 3 : CH 48

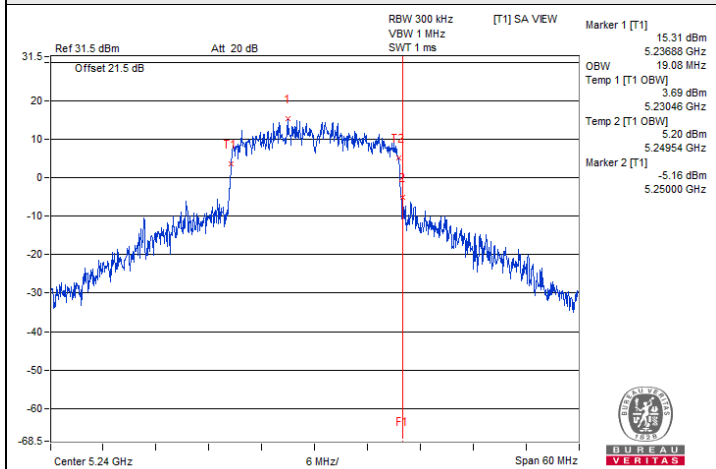


802.11ax (HE20) / Chain 0 : CH 48

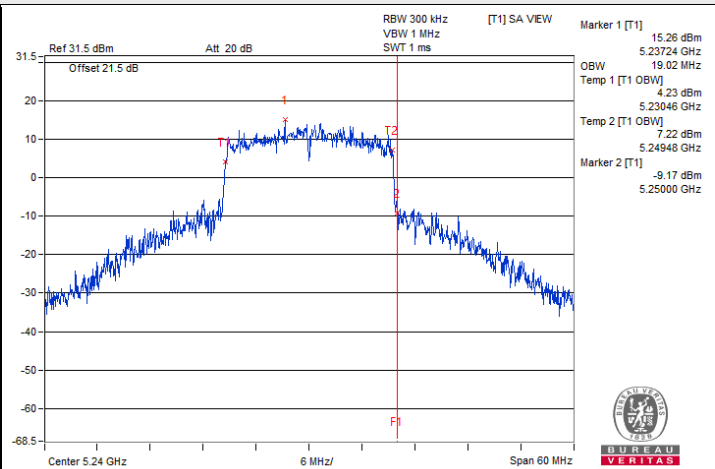


802.11ax (HE20) / Chain 1 : CH 48

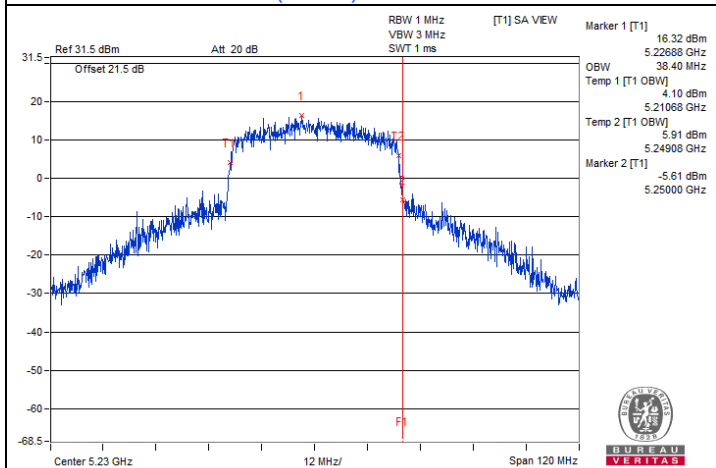
Spectrum Plot for nearby DFS band (DFS is required, if 99% OCP straddle into U-NII-2A)



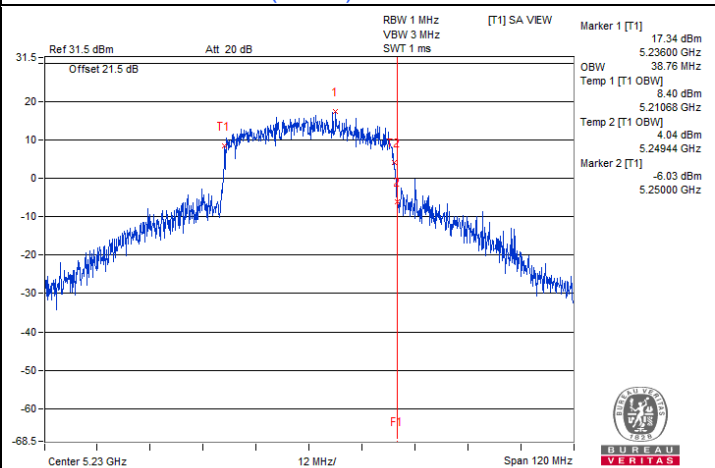
802.11ax (HE20) / Chain 2 : CH 48



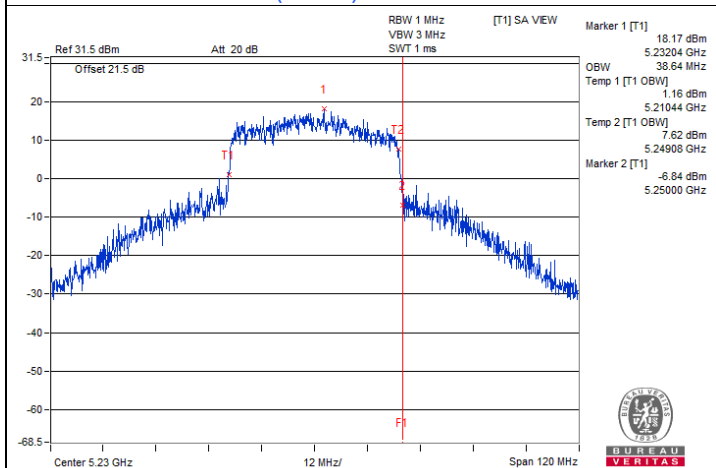
802.11ax (HE20) / Chain 3 : CH 48



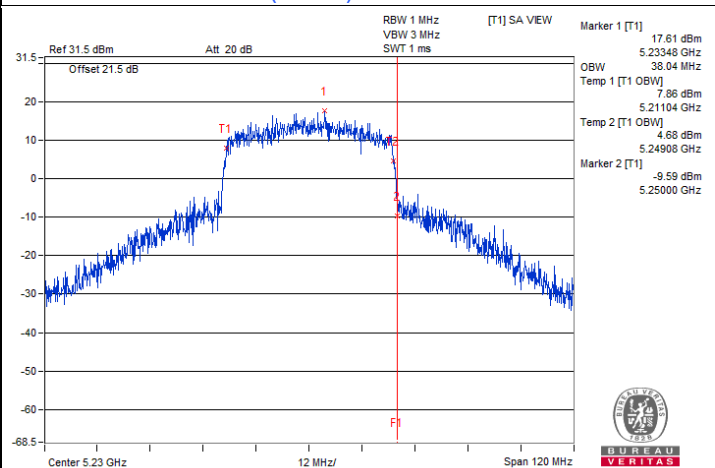
802.11ax (HE40) / Chain 0 : CH 46



802.11ax (HE40) / Chain 1 : CH 46

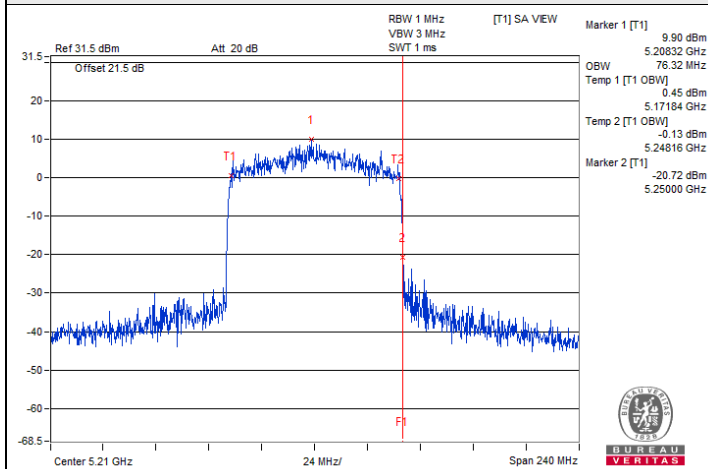


802.11ax (HE40) / Chain 2 : CH 46

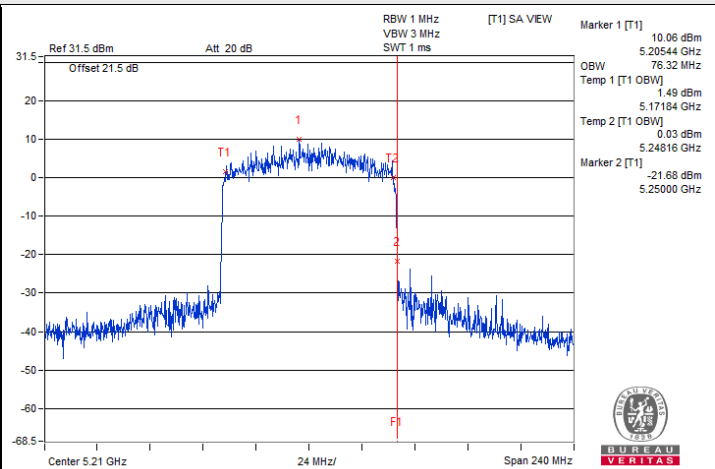


802.11ax (HE40) / Chain 3 : CH 46

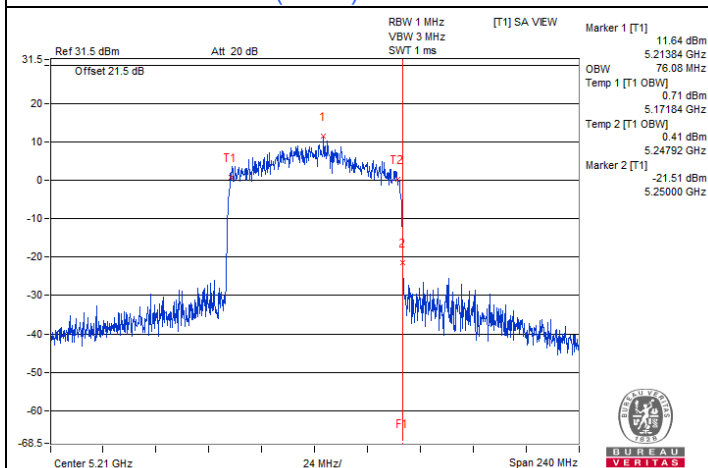
Spectrum Plot for nearby DFS band (DFS is required, if 99% OCP straddle into U-NII-2A)



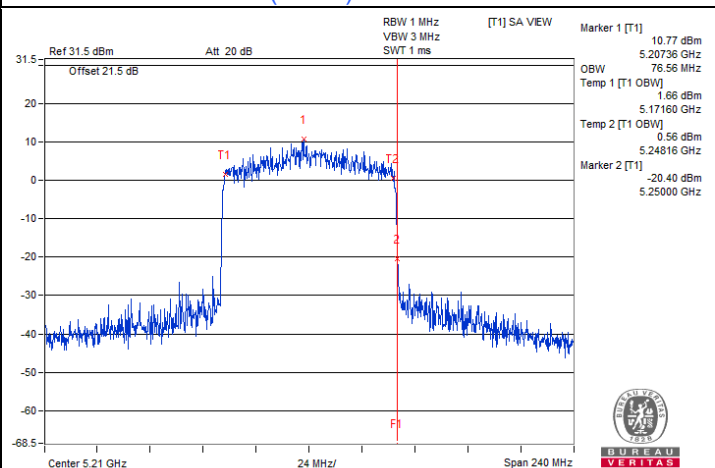
802.11ax (HE80) / Chain 0 : CH 42



802.11ax (HE80) / Chain 1 : CH 42



802.11ax (HE80) / Chain 2 : CH 42



802.11ax (HE80) / Chain 3 : CH 42

Input Power:	120 Vac, 60 Hz	Environmental Conditions:	25°C, 65% RH	Tested By:	Katina Lu
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Mode B

802.11a

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
36	5180	16.68	16.68	16.56	16.56
40	5200	16.56	16.56	16.56	16.50
48	5240	16.50	16.56	16.50	16.56
52	5260	16.38	16.38	16.26	16.38
60	5300	16.38	16.38	16.38	16.38
64	5320	16.38	16.38	16.32	16.32
100	5500	16.38	16.38	16.32	16.32
116	5580	16.44	16.32	16.32	16.32
140	5700	16.38	16.32	16.38	16.38
144 (U-NII-2C)	5720	13.28	13.22	13.22	13.22
144 (U-NII-3)	5720	3.10	3.10	3.16	3.16
149	5745	16.80	16.98	17.22	16.74
157	5785	17.22	17.46	17.28	16.68
165	5825	18.90	20.16	19.38	17.82

802.11ax (HE20)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
36	5180	18.90	18.84	18.90	18.84
40	5200	19.08	18.96	19.02	19.02
48	5240	18.90	18.90	18.96	18.90
52	5260	18.90	18.84	18.78	18.84
60	5300	18.84	18.90	18.90	18.90
64	5320	18.84	18.84	18.78	18.84
100	5500	18.84	18.84	18.90	18.84
116	5580	18.84	18.90	18.90	18.84
140	5700	18.90	18.78	18.90	18.84
144 (U-NII-2C)	5720	14.48	14.48	14.48	14.48
144 (U-NII-3)	5720	4.36	4.42	4.36	4.36
149	5745	19.26	19.20	19.38	19.02
157	5785	19.32	19.38	19.44	19.02
165	5825	22.56	23.22	22.14	19.62

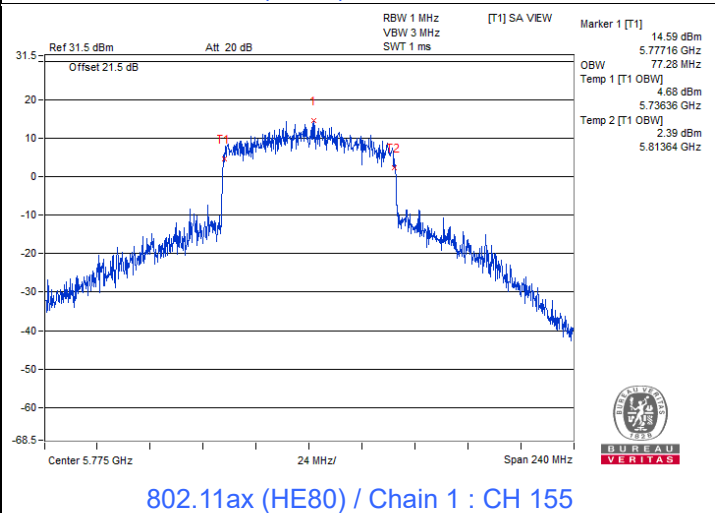
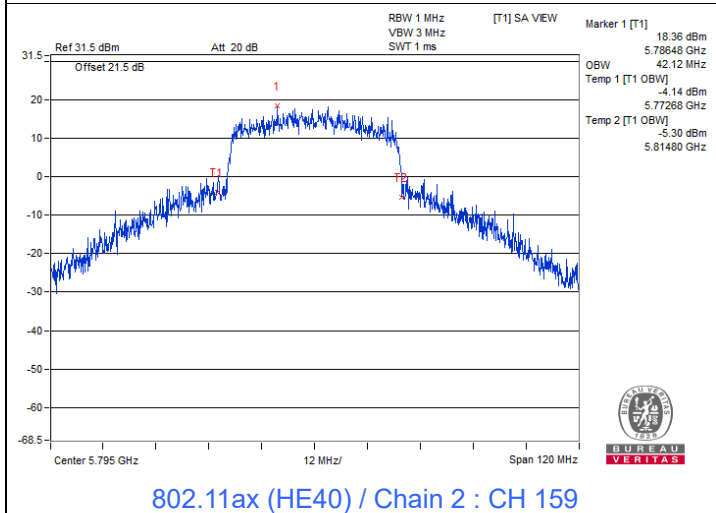
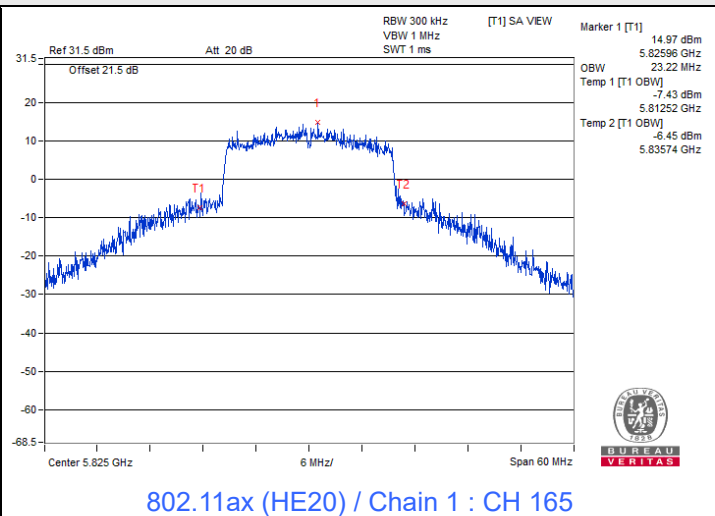
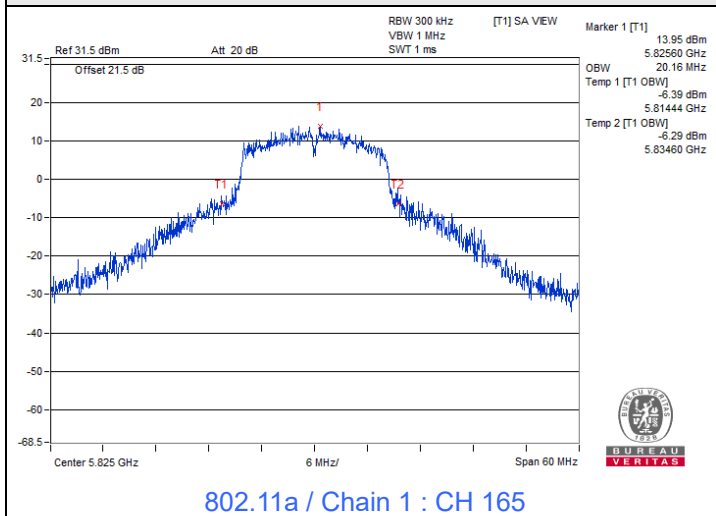
802.11ax (HE40)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
38	5190	37.68	37.68	37.68	37.68
46	5230	38.16	38.04	37.92	38.16
54	5270	37.44	37.56	37.56	37.56
62	5310	37.68	37.68	37.68	37.44
102	5510	37.56	37.56	37.56	37.44
110	5550	37.68	37.68	37.68	37.68
134	5670	37.44	37.80	37.56	37.44
142 (U-NII-2C)	5710	33.96	33.72	33.96	33.84
142 (U-NII-3)	5710	3.72	3.84	3.72	3.84
151	5755	39.00	38.64	39.24	38.28
159	5795	40.44	41.40	42.12	38.40

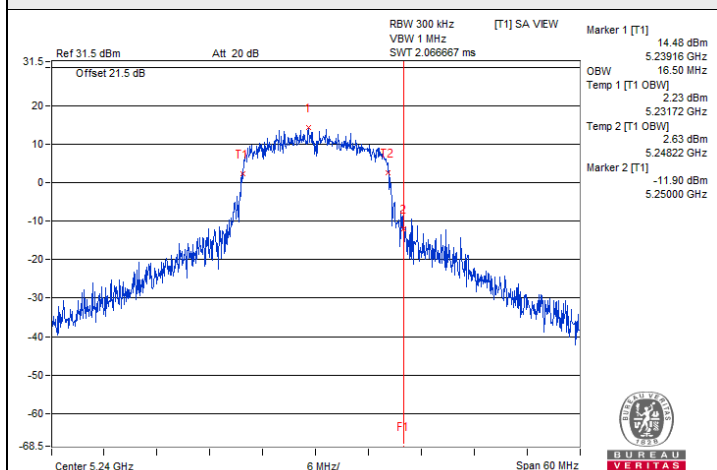
802.11ax (HE80)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
42	5210	77.04	76.80	76.56	76.56
58	5290	76.80	77.04	76.56	76.56
106	5530	76.56	76.32	76.56	76.56
122	5610	76.80	76.80	76.56	76.08
138 (U-NII-2C)	5690	73.40	73.40	73.64	73.64
138 (U-NII-3)	5690	3.16	3.16	3.16	2.92
155	5775	77.04	77.28	77.04	77.04

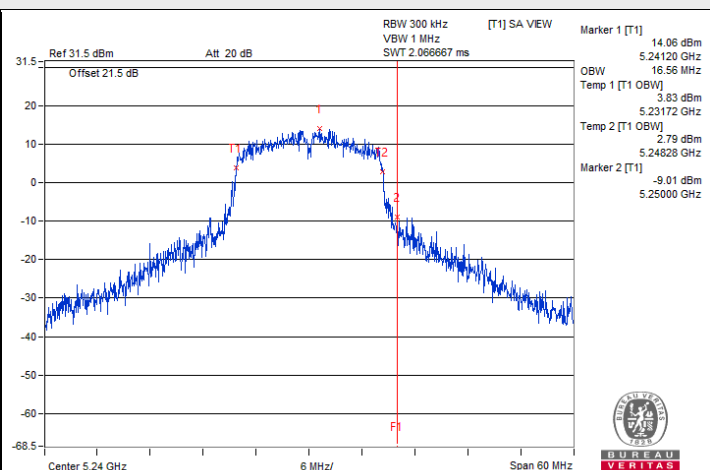
Spectrum Plot of Maximum Value



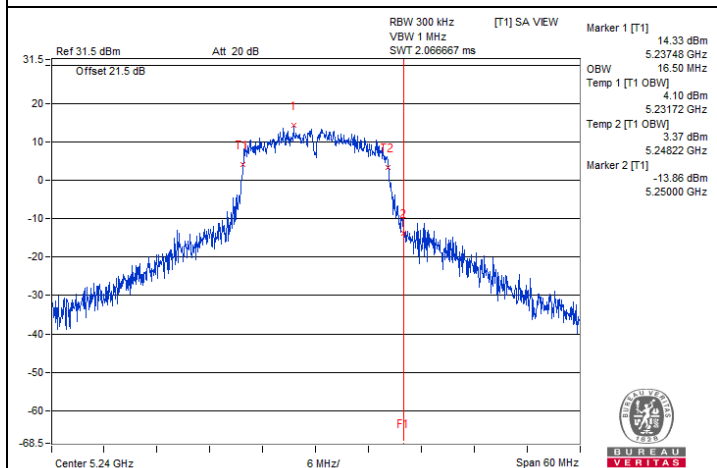
Spectrum Plot for nearby DFS band
(DFS is required, if 99% OCP straddle into U-NII-2A)



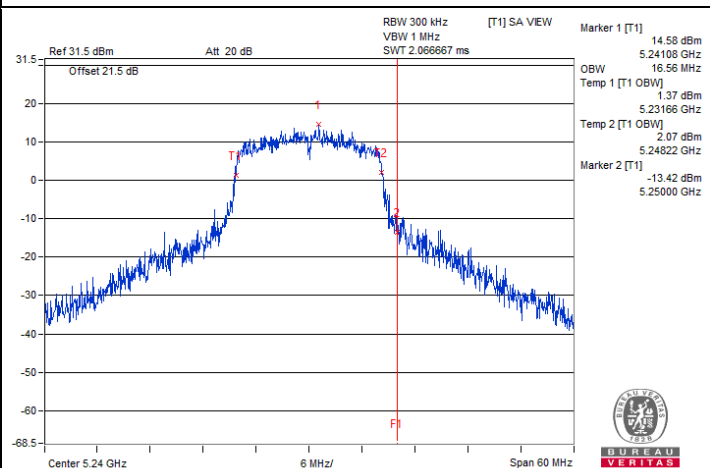
802.11a / Chain 0 : CH 48



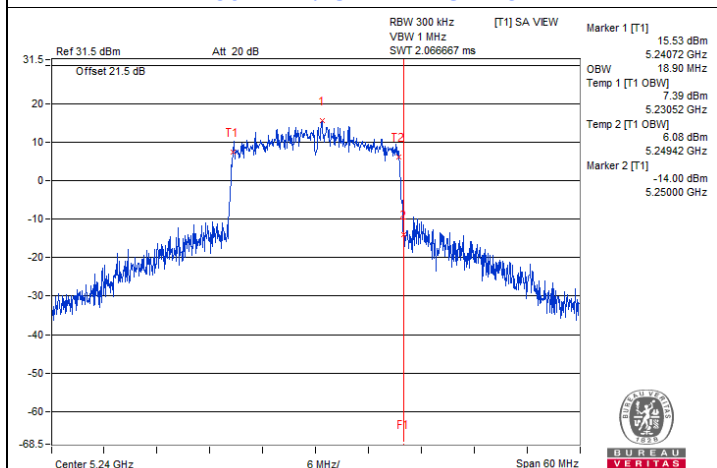
802.11a / Chain 1 : CH 48



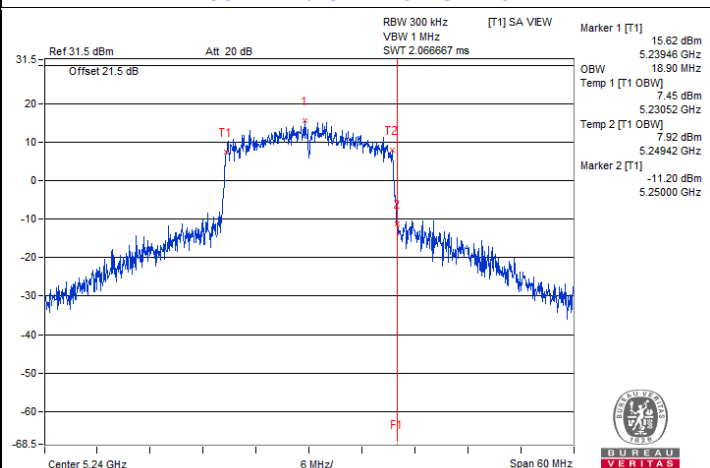
802.11a / Chain 2 : CH 48



802.11a / Chain 3 : CH 48

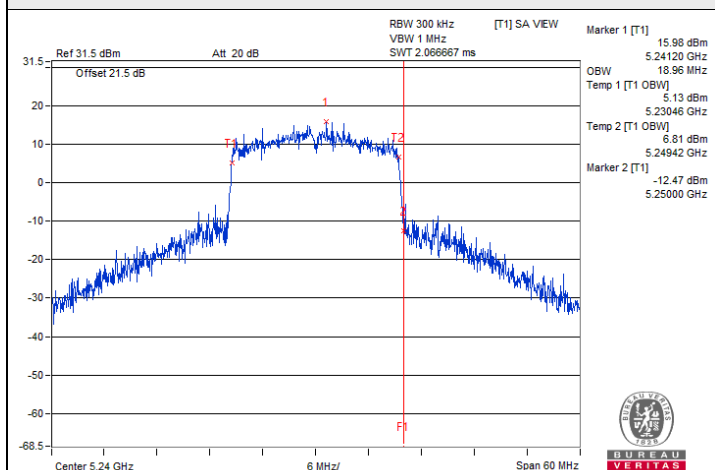


802.11ax (HE20) / Chain 0 : CH 48

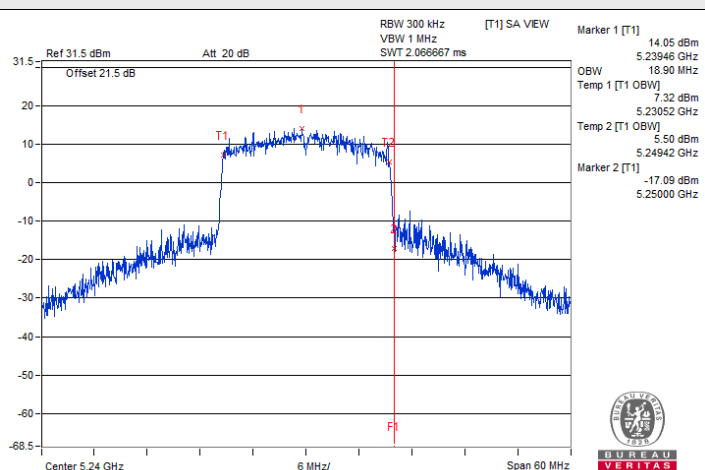


802.11ax (HE20) / Chain 1 : CH 48

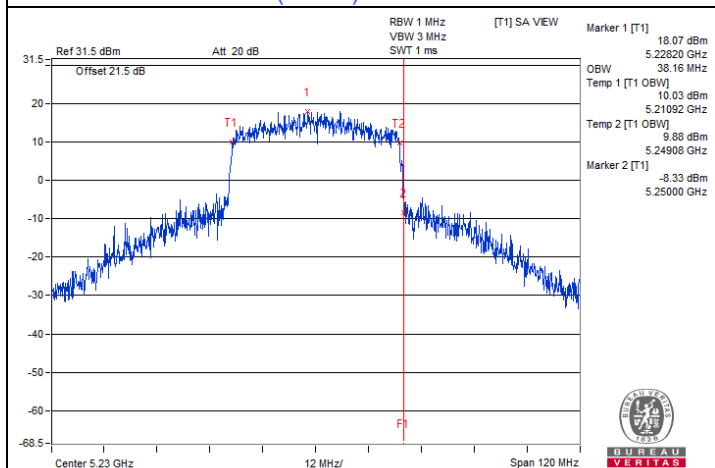
Spectrum Plot for nearby DFS band (DFS is required, if 99% OCP straddle into U-NII-2A)



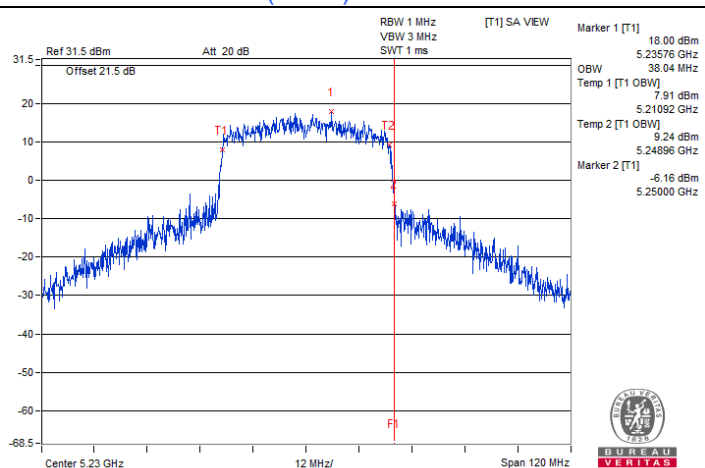
802.11ax (HE20) / Chain 2 : CH 48



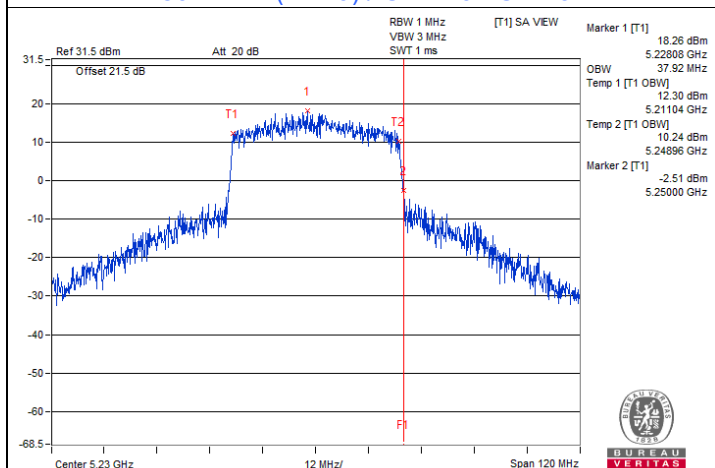
802.11ax (HE20) / Chain 3 : CH 48



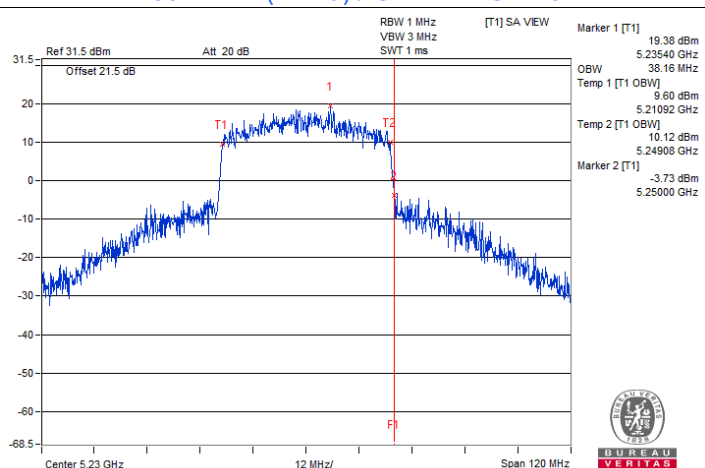
802.11ax (HE40) / Chain 0 : CH 46



802.11ax (HE40) / Chain 1 : CH 46

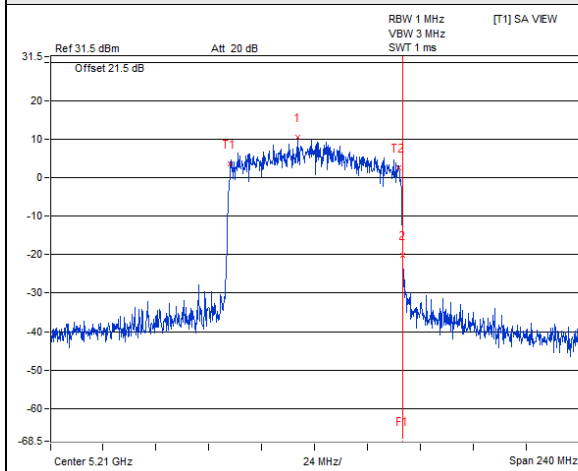


802.11ax (HE40) / Chain 2 : CH 46

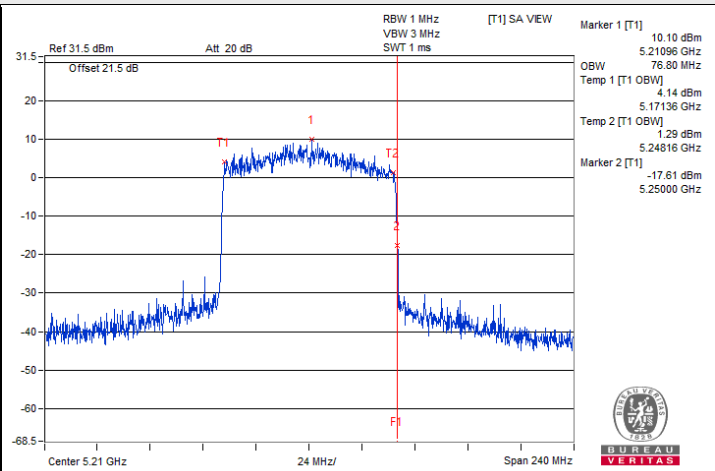


802.11ax (HE40) / Chain 3 : CH 46

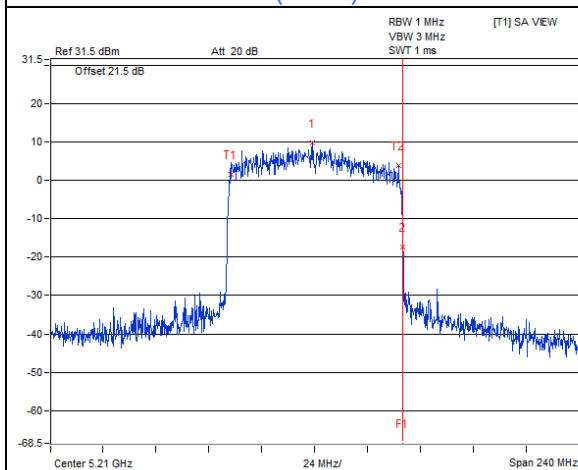
Spectrum Plot for nearby DFS band (DFS is required, if 99% OCP straddle into U-NII-2A)



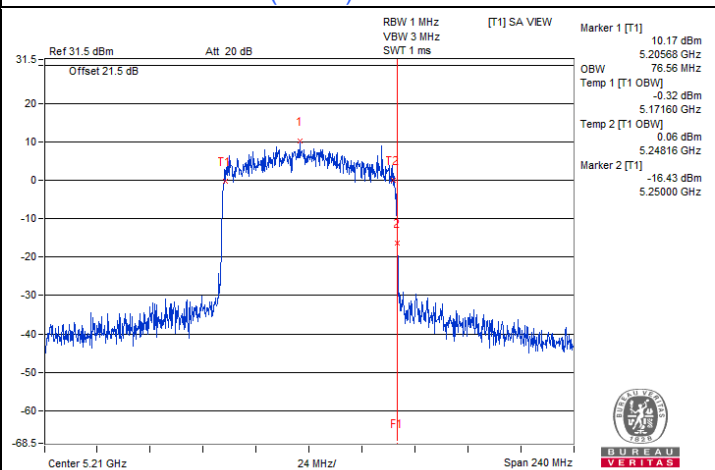
802.11ax (HE80) / Chain 0 : CH 42



802.11ax (HE80) / Chain 1 : CH 42

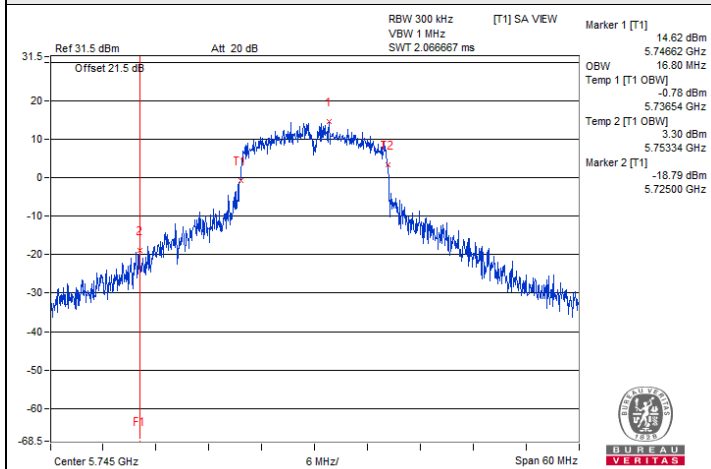


802.11ax (HE80) / Chain 2 : CH 42

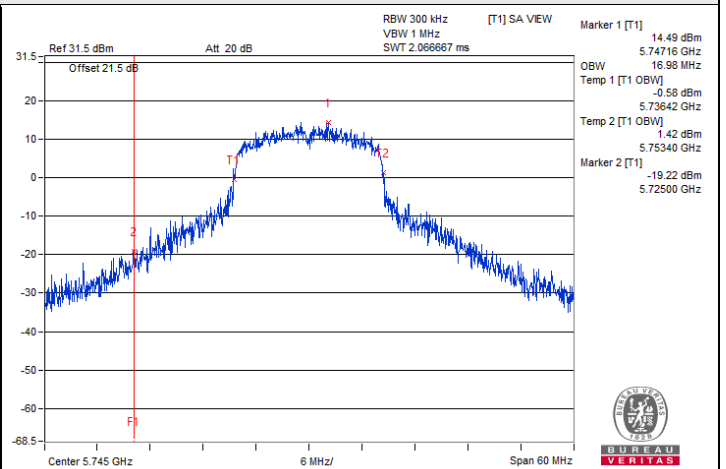


802.11ax (HE80) / Chain 3 : CH 42

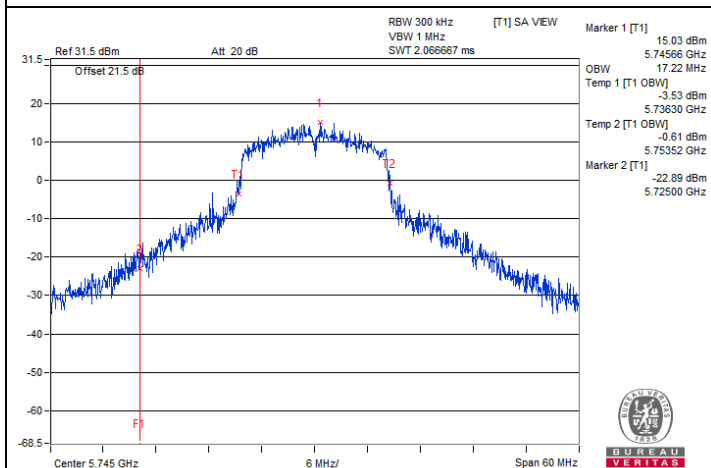
Spectrum Plot for nearby DFS band (DFS is required, if 99% OCP straddle into U-NII-2C)



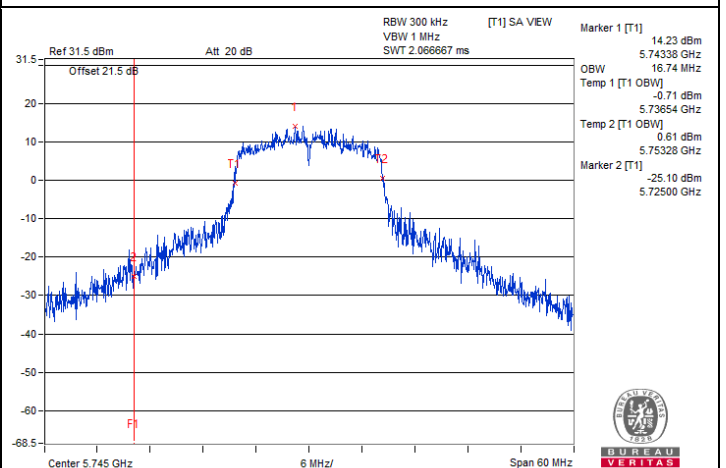
802.11a / Chain 0 : CH 149



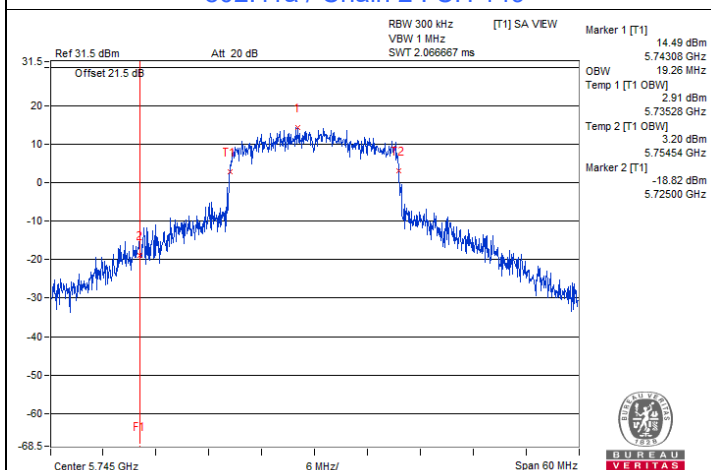
802.11a / Chain 1 : CH 149



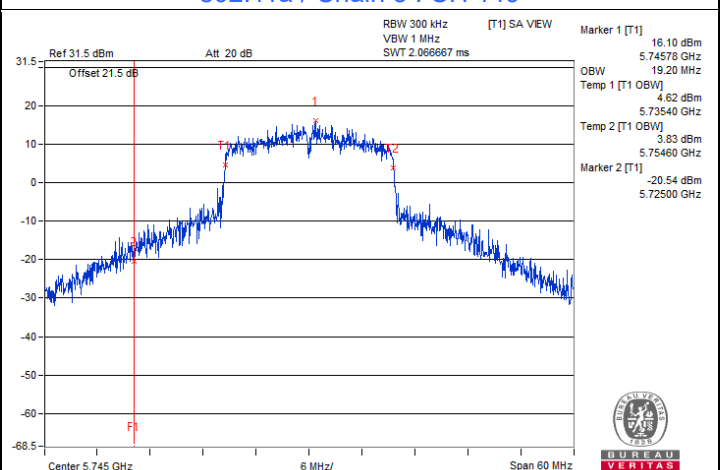
802.11a / Chain 2 : CH 149



802.11a / Chain 3 : CH 149

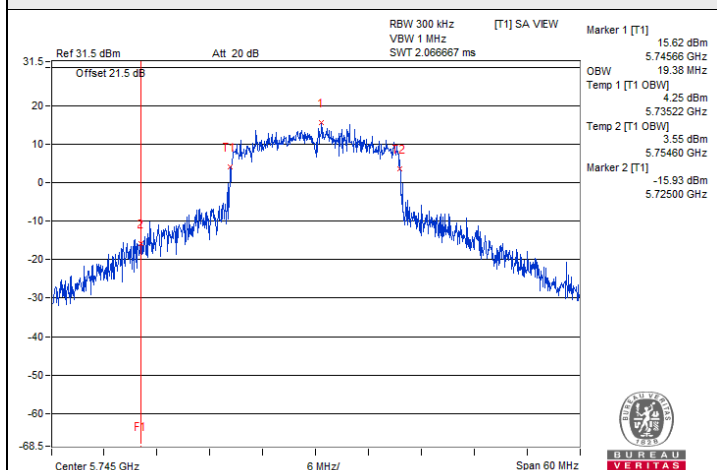


802.11ax (HE20) / Chain 0 : CH 149

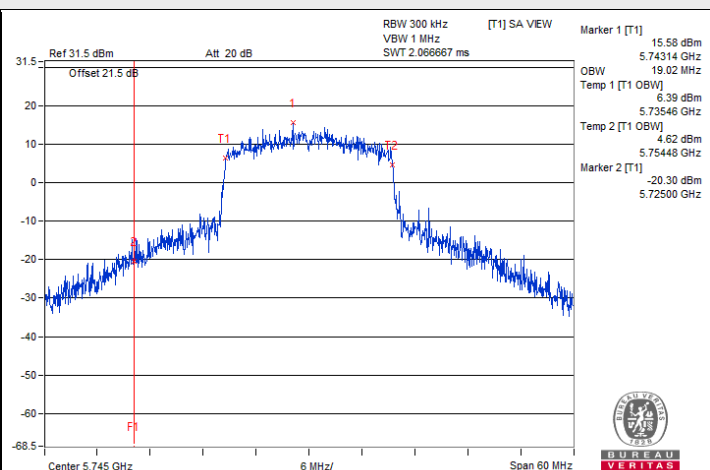


802.11ax (HE20) / Chain 1 : CH 149

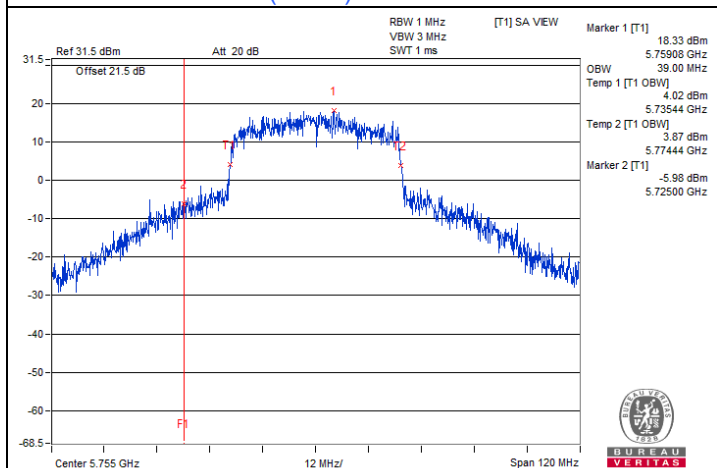
Spectrum Plot for nearby DFS band (DFS is required, if 99% OCP straddle into U-NII-2C)



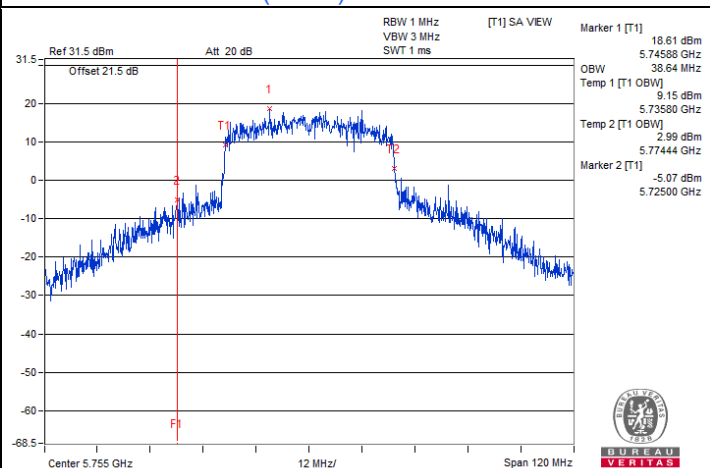
802.11ax (HE20) / Chain 2 : CH 149



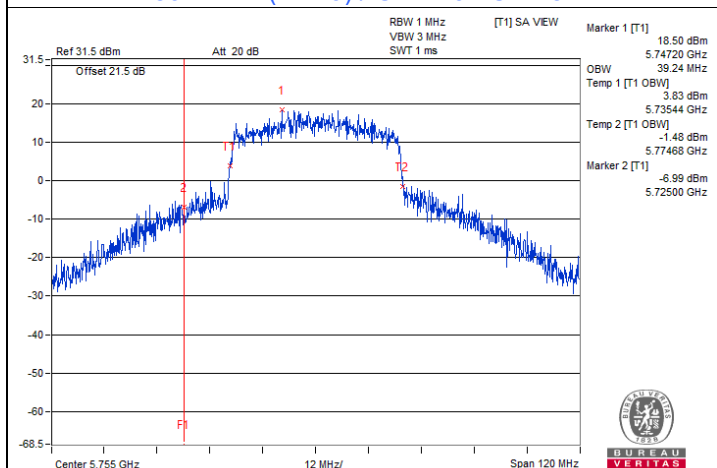
802.11ax (HE20) / Chain 3 : CH 149



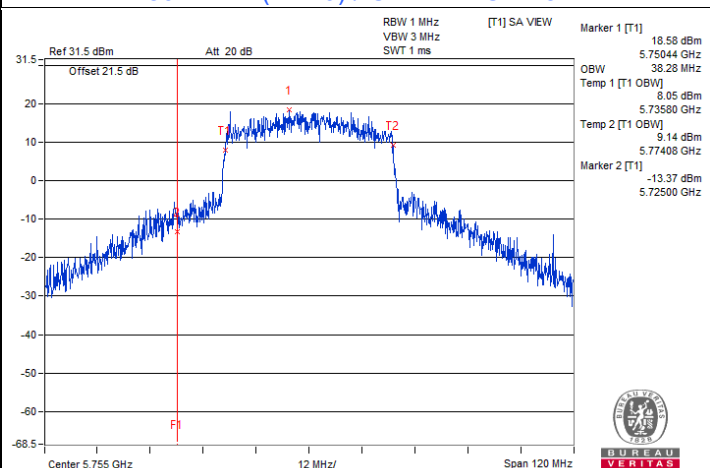
802.11ax (HE40) / Chain 0 : CH 151



802.11ax (HE40) / Chain 1 : CH 151

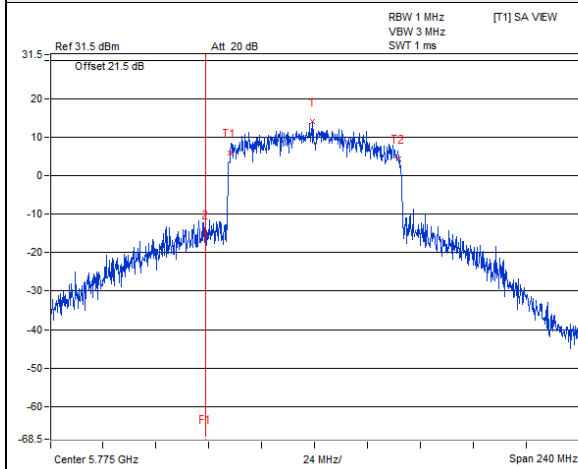


802.11ax (HE40) / Chain 2 : CH 151

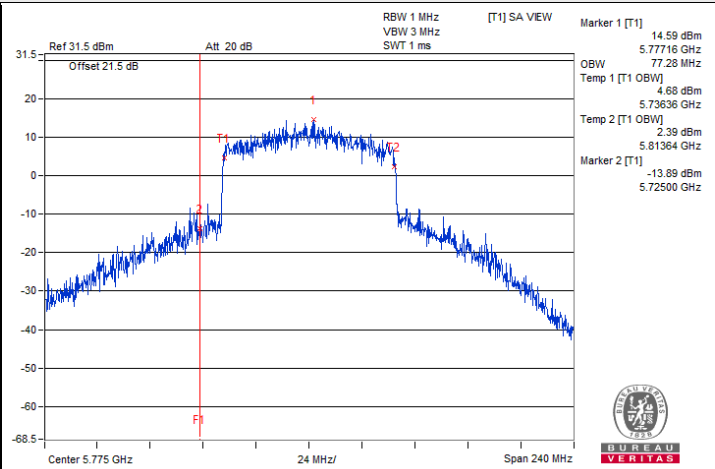


802.11ax (HE40) / Chain 3 : CH 151

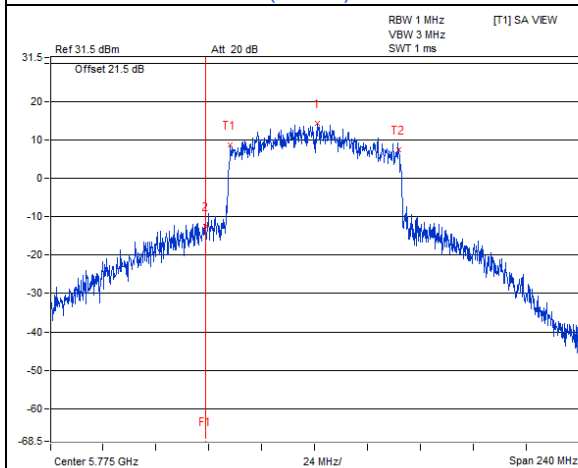
Spectrum Plot for nearby DFS band (DFS is required, if 99% OCP straddle into U-NII-2C)



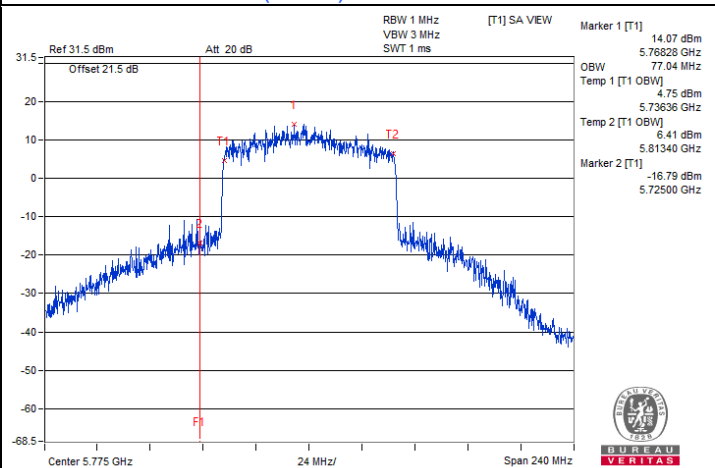
802.11ax (HE80) / Chain 0 : CH 155



802.11ax (HE80) / Chain 1 : CH 155



802.11ax (HE80) / Chain 2 : CH 155



802.11ax (HE80) / Chain 3 : CH 155

Input Power:	120 Vac, 60 Hz	Environmental Conditions:	25°C, 60% RH	Tested By:	Willy Lin
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Mode C

802.11a

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
100	5500	16.62	16.56	16.56	16.56
116	5580	16.56	16.50	16.50	16.50
140	5700	16.62	16.56	16.62	16.56
144 (U-NII-2C)	5720	13.34	13.22	13.22	13.22
144 (U-NII-3)	5720	3.28	3.22	3.28	3.28
149	5745	19.20	18.12	22.26	21.72
157	5785	20.04	18.24	22.92	22.44
165	5825	22.08	24.60	26.04	28.50

802.11ax (HE20)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
100	5500	18.96	18.96	19.02	18.96
116	5580	18.90	19.02	18.90	18.90
140	5700	18.96	18.90	18.96	18.96
144 (U-NII-2C)	5720	14.42	14.48	14.48	14.48
144 (U-NII-3)	5720	4.42	4.42	4.42	4.54
149	5745	20.88	19.44	23.40	24.00
157	5785	20.40	19.92	24.96	23.88
165	5825	24.06	26.46	27.90	25.68

802.11ax (HE40)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
102	5510	37.92	37.80	37.92	37.92
110	5550	37.92	38.04	37.80	38.04
134	5670	38.04	38.04	38.04	38.04
142 (U-NII-2C)	5710	33.96	34.08	33.96	33.96
142 (U-NII-3)	5710	3.96	3.96	3.96	4.08
151	5755	41.88	38.88	45.36	43.92
159	5795	41.76	39.96	49.92	48.84

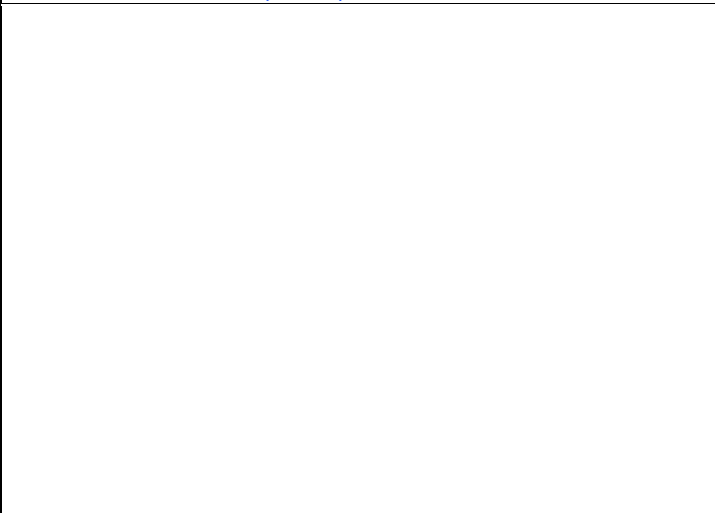
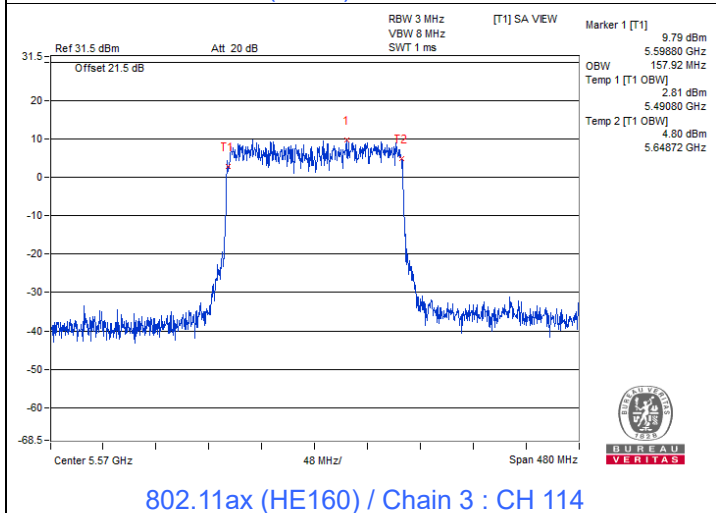
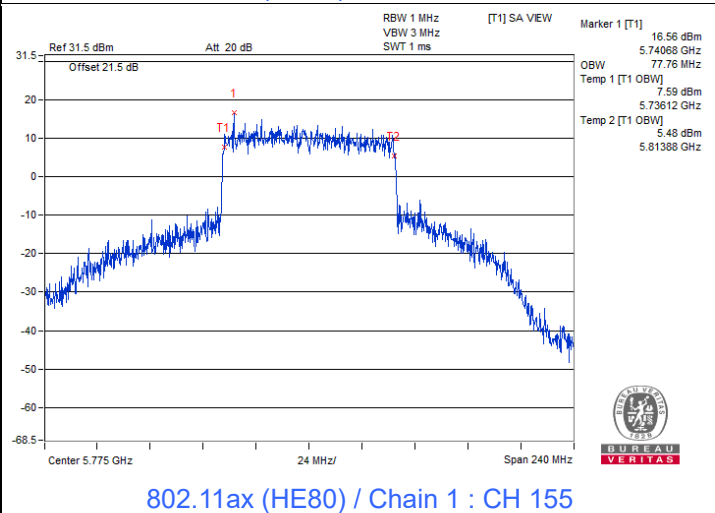
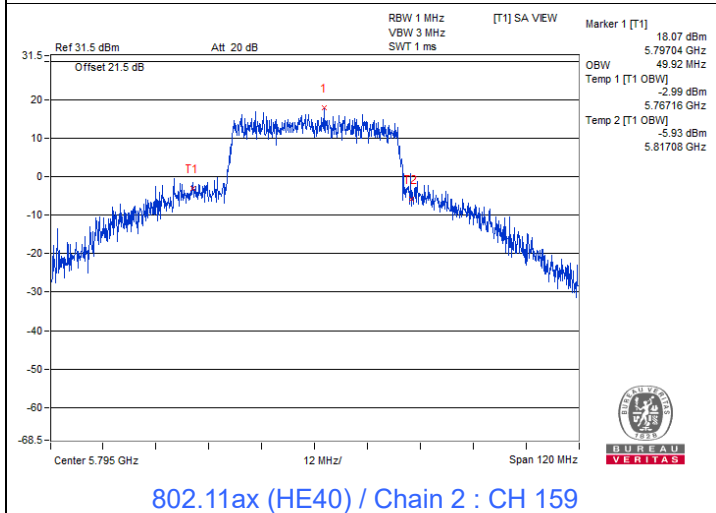
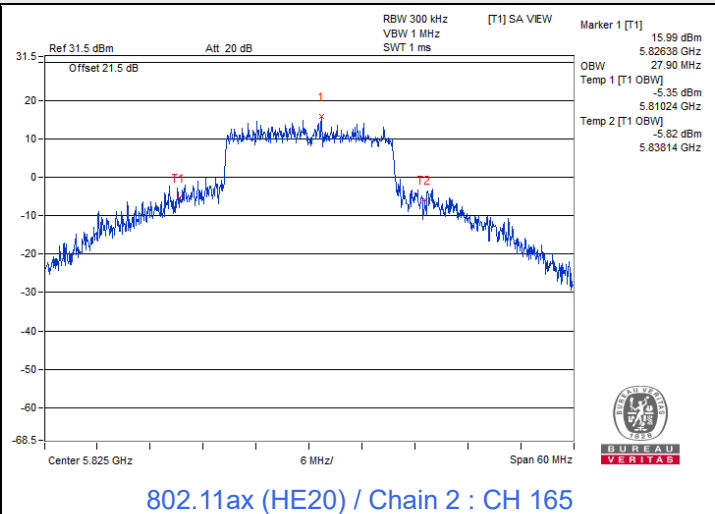
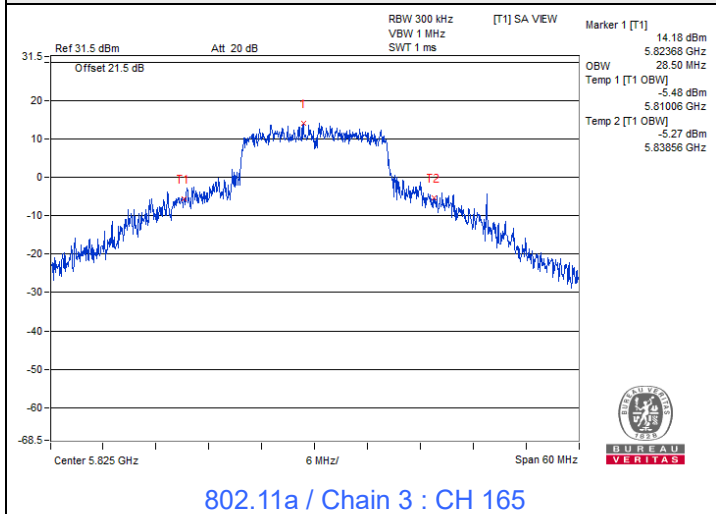
802.11ax (HE80)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
106	5530	77.04	77.28	77.28	77.04
122	5610	77.28	77.28	77.28	77.28
138 (U-NII-2C)	5690	73.88	73.88	73.64	73.64
138 (U-NII-3)	5690	3.64	3.64	3.40	3.40
155	5775	77.04	77.76	77.52	77.04

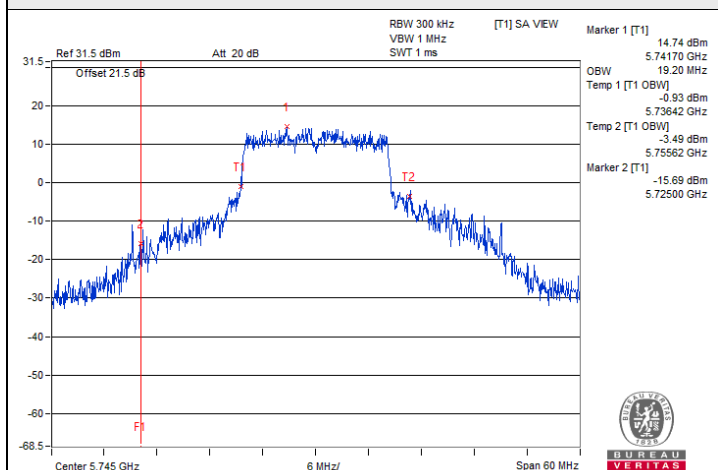
802.11ax (HE160)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
114	5570	157.44	157.44	156.96	157.92

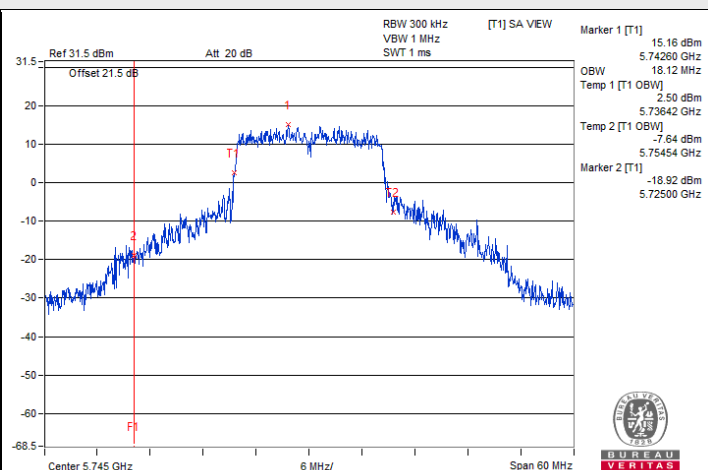
Spectrum Plot of Maximum Value



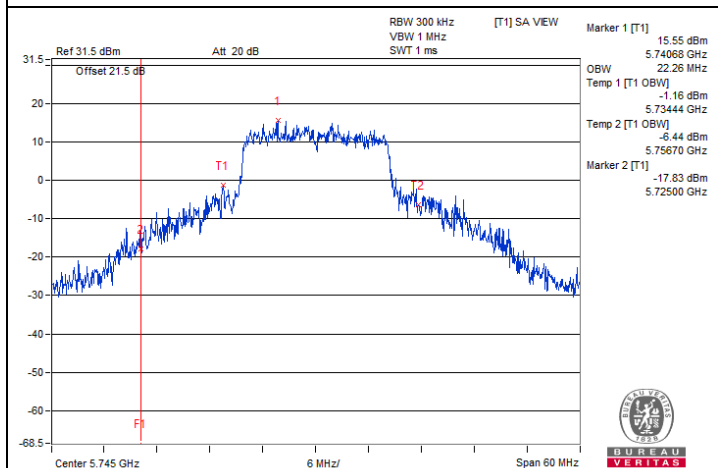
Spectrum Plot for nearby DFS band (DFS is required, if 99% OCP straddle into U-NII-2C)



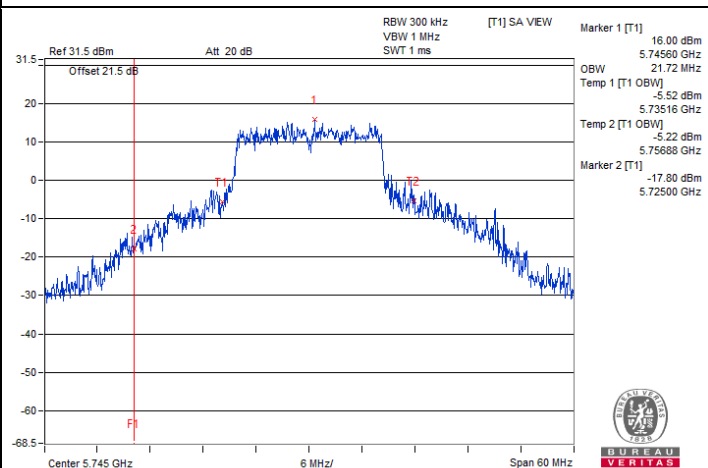
802.11a / Chain 0 : CH 149



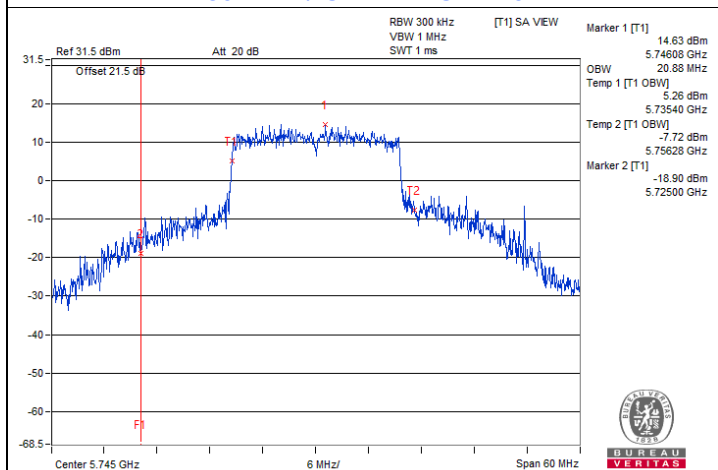
802.11a / Chain 1 : CH 149



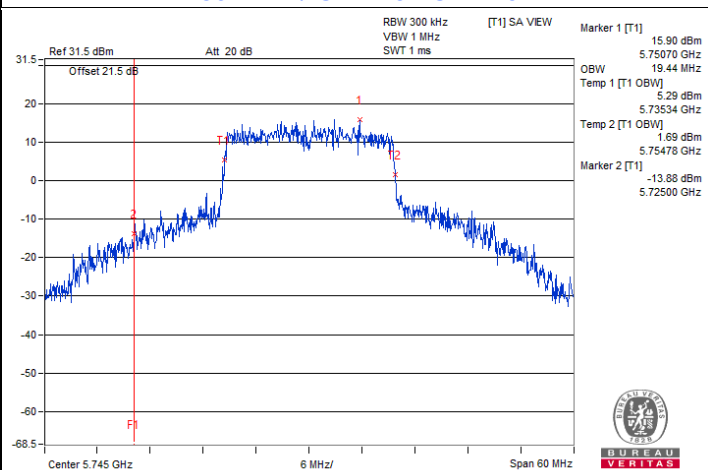
802.11a / Chain 2 : CH 149



802.11a / Chain 3 : CH 149

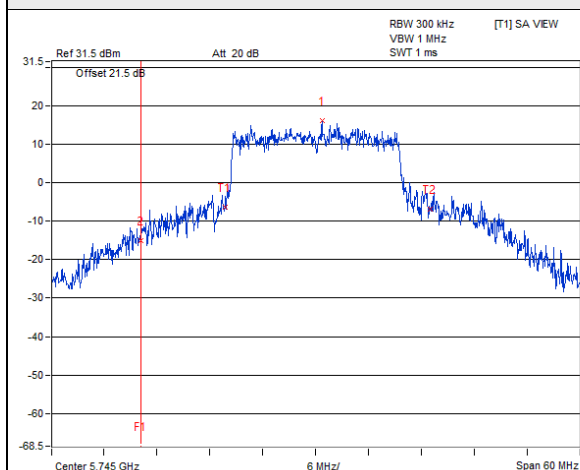


802.11ax (HE20) / Chain 0 : CH 149

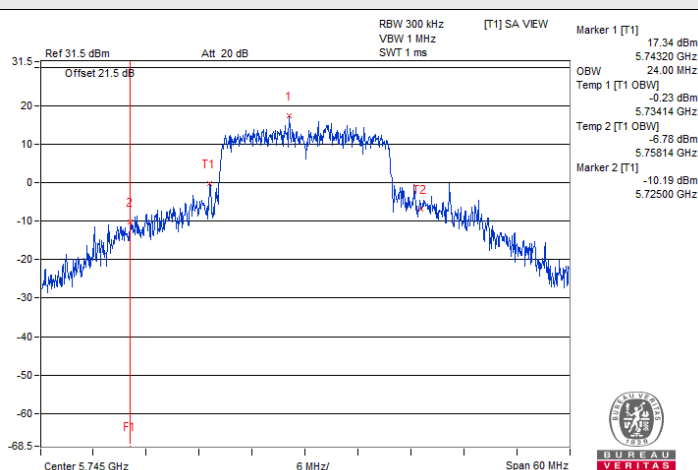


802.11ax (HE20) / Chain 1 : CH 149

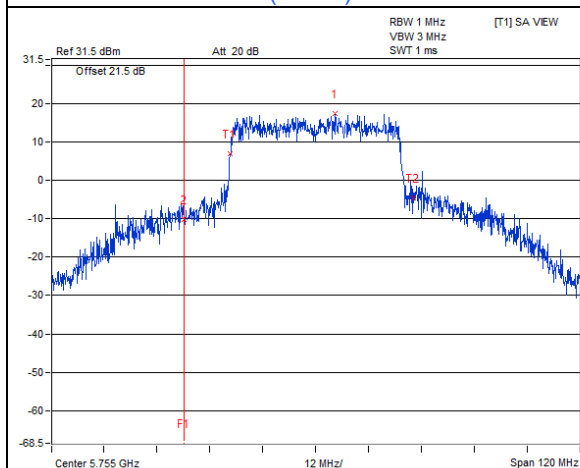
Spectrum Plot for nearby DFS band
(DFS is required, if 99% OCP straddle into U-NII-2C)



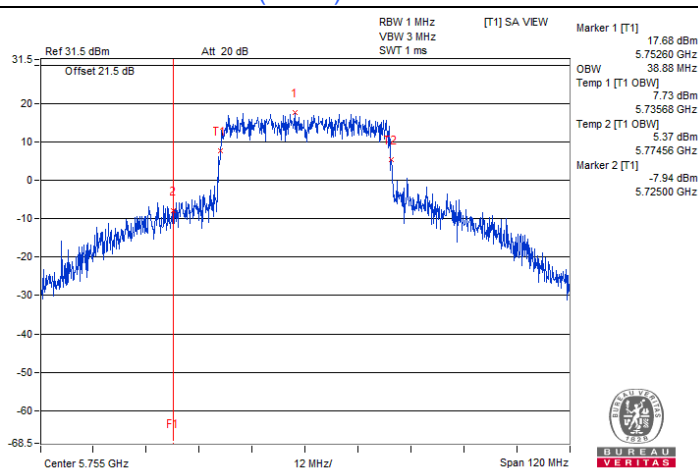
802.11ax (HE20) / Chain 2 : CH 149



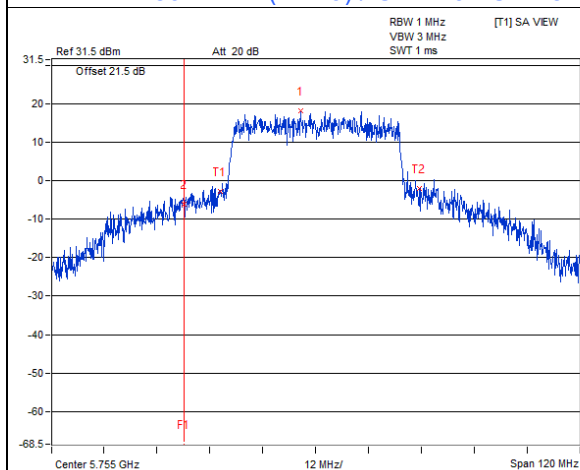
802.11ax (HE20) / Chain 3 : CH 149



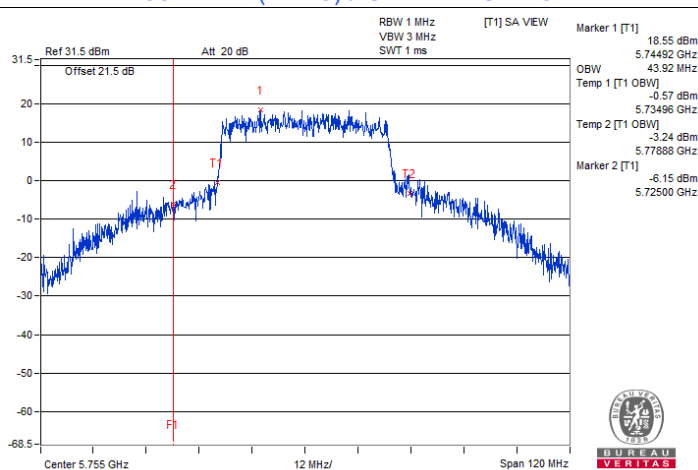
802.11ax (HE40) / Chain 0 : CH 151



802.11ax (HE40) / Chain 1 : CH 151

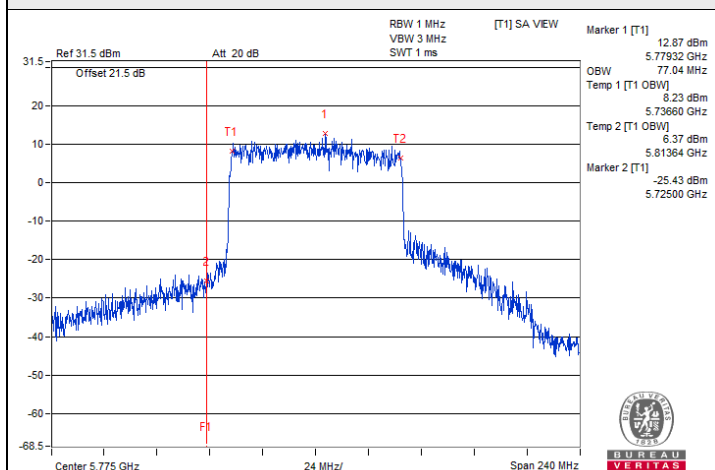


802.11ax (HE40) / Chain 2 : CH 151

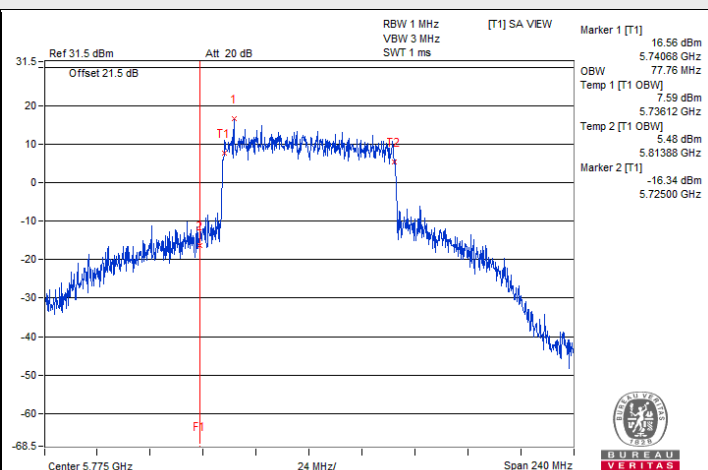


802.11ax (HE40) / Chain 3 : CH 151

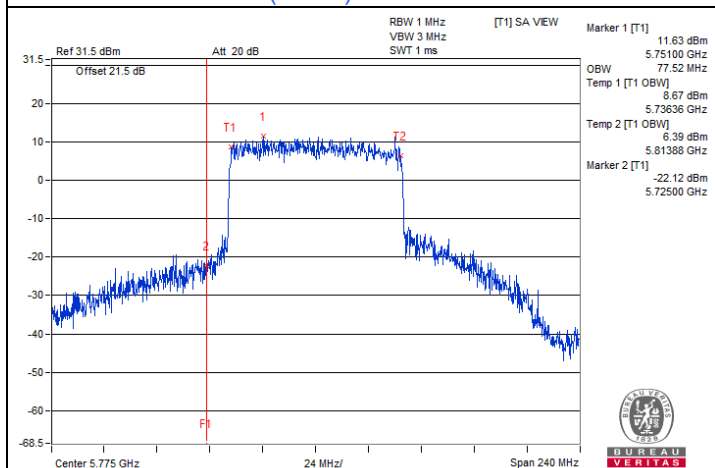
Spectrum Plot for nearby DFS band (DFS is required, if 99% OCP straddle into U-NII-2C)



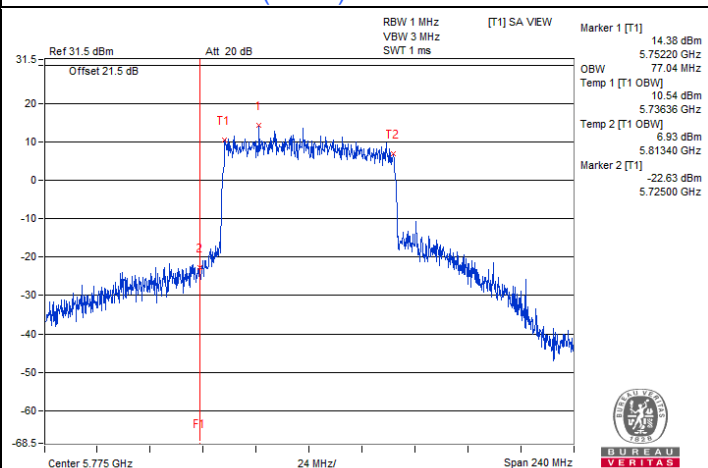
802.11ax (HE80) / Chain 0 : CH 155



802.11ax (HE80) / Chain 1 : CH 155



802.11ax (HE80) / Chain 2 : CH 155



802.11ax (HE80) / Chain 3 : CH 155

7.6 AC Power Conducted Emissions

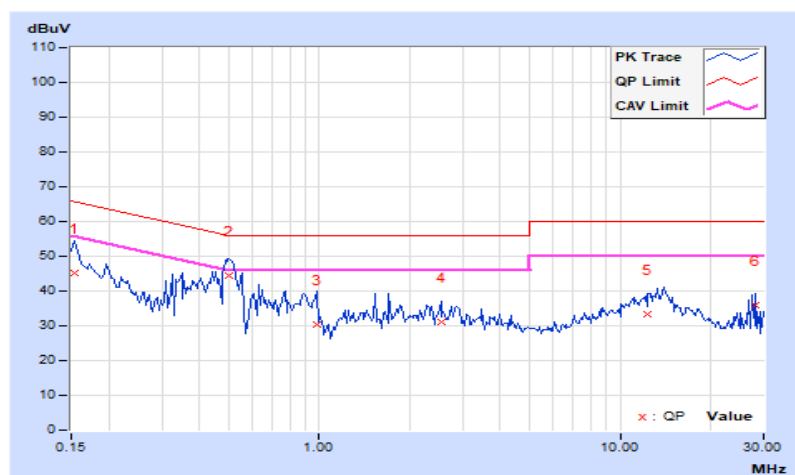
Mode A

RF Mode	802.11a	Channel	CH 40 : 5200 MHz
Frequency Range	150 kHz ~ 30 MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	21 °C, 58 % RH
Tested By	Willy Lin		

Phase Of Power : Line (L)										
No	Frequency (MHz)	Correction Factor (dB)	Reading Value (dBuV)		Emission Level (dBuV)		Limit (dBuV)		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15391	9.93	35.42	18.03	45.35	27.96	65.79	55.79	-20.44	-27.83
2	0.50156	9.95	34.55	21.99	44.50	31.94	56.00	46.00	-11.50	-14.06
3	0.97813	9.98	20.33	16.63	30.31	26.61	56.00	46.00	-25.69	-19.39
4	2.54297	10.05	21.01	13.34	31.06	23.39	56.00	46.00	-24.94	-22.61
5	12.40234	10.64	22.51	17.64	33.15	28.28	60.00	50.00	-26.85	-21.72
6	28.31250	11.46	24.43	24.02	35.89	35.48	60.00	50.00	-24.11	-14.52

Remarks:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level – Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value

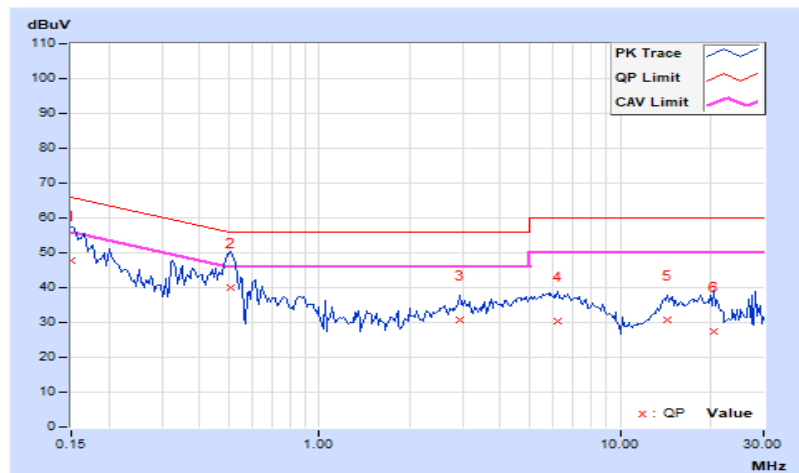


RF Mode	802.11a	Channel	CH 40 : 5200 MHz
Frequency Range	150 kHz ~ 30 MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	21 °C, 58 % RH
Tested By	Willy Lin		

Phase Of Power : Neutral (N)										
No	Frequency (MHz)	Correction Factor (dB)	Reading Value (dBuV)		Emission Level (dBuV)		Limit (dBuV)		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15000	9.98	37.68	23.27	47.66	33.25	66.00	56.00	-18.34	-22.75
2	0.50938	10.01	30.14	21.22	40.15	31.23	56.00	46.00	-15.85	-14.77
3	2.91797	10.11	20.73	14.12	30.84	24.23	56.00	46.00	-25.16	-21.77
4	6.20703	10.26	20.28	14.87	30.54	25.13	60.00	50.00	-29.46	-24.87
5	14.41797	10.64	20.14	15.48	30.78	26.12	60.00	50.00	-29.22	-23.88
6	20.54297	10.89	16.40	10.15	27.29	21.04	60.00	50.00	-32.71	-28.96

Remarks:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level – Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value



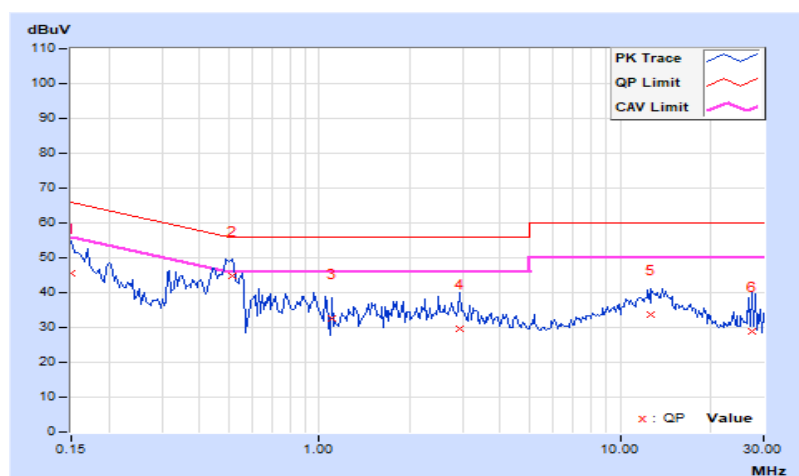
Mode B

RF Mode	802.11a	Channel	CH 48 : 5240 MHz
Frequency Range	150 kHz ~ 30 MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	21 °C, 58 % RH
Tested By	Willy Lin		

Phase Of Power : Line (L)										
No	Frequency (MHz)	Correction Factor (dB)	Reading Value (dBuV)		Emission Level (dBuV)		Limit (dBuV)		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15000	9.92	35.72	23.35	45.64	33.27	66.00	56.00	-20.36	-22.73
2	0.51328	9.95	34.94	27.67	44.89	37.62	56.00	46.00	-11.11	-8.38
3	1.09766	9.98	22.79	12.75	32.77	22.73	56.00	46.00	-23.23	-23.27
4	2.91797	10.07	19.73	12.82	29.80	22.89	56.00	46.00	-26.20	-23.11
5	12.71484	10.66	23.08	17.41	33.74	28.07	60.00	50.00	-26.26	-21.93
6	27.60156	11.43	17.59	4.02	29.02	15.45	60.00	50.00	-30.98	-34.55

Remarks:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level – Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value

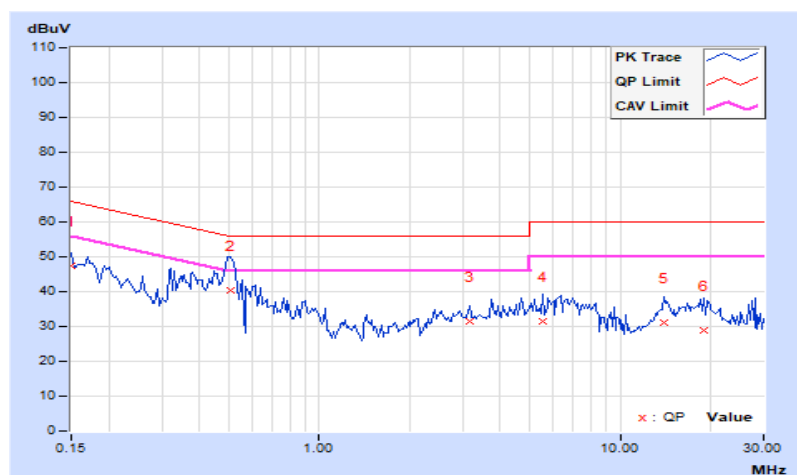


RF Mode	802.11a	Channel	CH 48 : 5240 MHz
Frequency Range	150 kHz ~ 30 MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	21 °C, 58 % RH
Tested By	Willy Lin		

Phase Of Power : Neutral (N)										
No	Frequency (MHz)	Correction Factor (dB)	Reading Value (dBuV)		Emission Level (dBuV)		Limit (dBuV)		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15000	9.98	37.44	23.51	47.42	33.49	66.00	56.00	-18.58	-22.51
2	0.50938	10.01	30.38	21.34	40.39	31.35	56.00	46.00	-15.61	-14.65
3	3.14844	10.12	21.31	15.38	31.43	25.50	56.00	46.00	-24.57	-20.50
4	5.55859	10.23	21.38	15.40	31.61	25.63	60.00	50.00	-28.39	-24.37
5	14.05078	10.62	20.63	15.59	31.25	26.21	60.00	50.00	-28.75	-23.79
6	19.04688	10.84	17.89	12.03	28.73	22.87	60.00	50.00	-31.27	-27.13

Remarks:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level – Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value



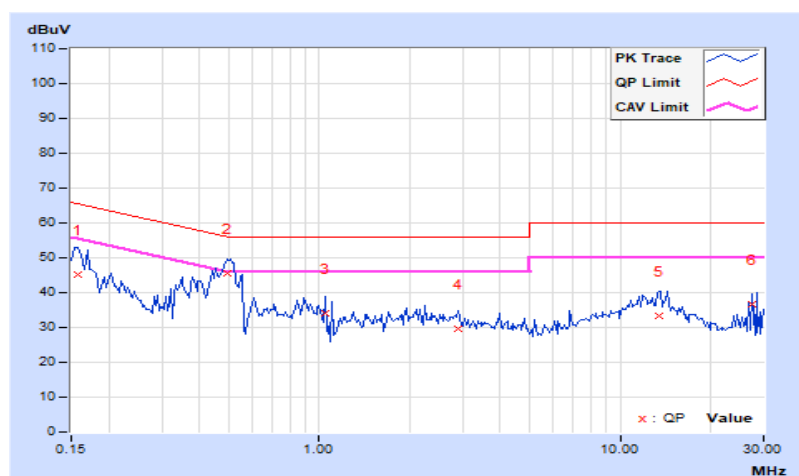
Mode C

RF Mode	802.11ax (HE20)	Channel	CH 157 : 5785 MHz
Frequency Range	150 kHz ~ 30 MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	21 °C, 58 % RH
Tested By	Willy Lin		

Phase Of Power : Line (L)										
No	Frequency (MHz)	Correction Factor (dB)	Reading Value (dBuV)		Emission Level (dBuV)		Limit (dBuV)		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15781	9.93	35.12	16.37	45.05	26.30	65.58	55.58	-20.53	-29.28
2	0.49766	9.95	35.70	28.21	45.65	38.16	56.04	46.04	-10.39	-7.88
3	1.04297	9.98	24.00	15.74	33.98	25.72	56.00	46.00	-22.02	-20.28
4	2.89453	10.06	19.71	13.16	29.77	23.22	56.00	46.00	-26.23	-22.78
5	13.50391	10.72	22.58	17.35	33.30	28.07	60.00	50.00	-26.70	-21.93
6	27.54688	11.43	25.39	21.30	36.82	32.73	60.00	50.00	-23.18	-17.27

Remarks:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level – Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value

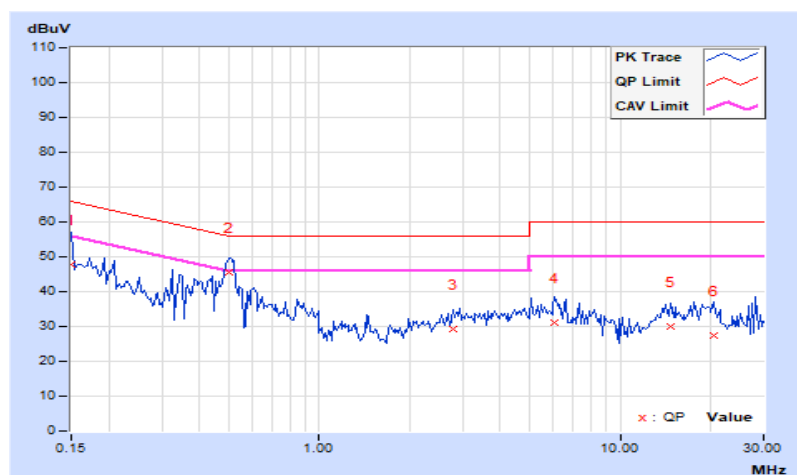


RF Mode	802.11ax (HE20)	Channel	CH 157 : 5785 MHz
Frequency Range	150 kHz ~ 30 MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	21 °C, 58 % RH
Tested By	Willy Lin		

Phase Of Power : Neutral (N)										
No	Frequency (MHz)	Correction Factor (dB)	Reading Value (dBuV)		Emission Level (dBuV)		Limit (dBuV)		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15000	9.98	37.76	23.43	47.74	33.41	66.00	56.00	-18.26	-22.59
2	0.50156	10.01	35.50	22.70	45.51	32.71	56.00	46.00	-10.49	-13.29
3	2.78516	10.11	19.28	12.90	29.39	23.01	56.00	46.00	-26.61	-22.99
4	6.06641	10.25	20.85	15.04	31.10	25.29	60.00	50.00	-28.90	-24.71
5	14.68359	10.65	19.53	14.80	30.18	25.45	60.00	50.00	-29.82	-24.55
6	20.41406	10.89	16.61	10.11	27.50	21.00	60.00	50.00	-32.50	-29.00

Remarks:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level – Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value



7.7 Unwanted Emissions below 1 GHz

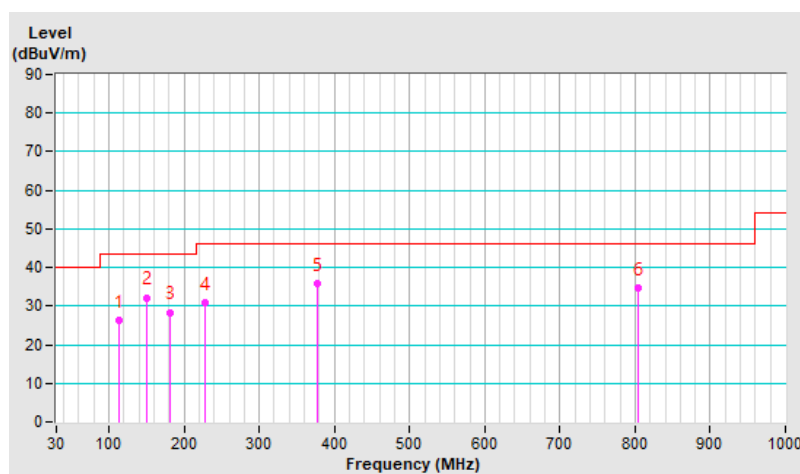
Mode A

RF Mode	802.11a	Channel	CH 40 : 5200 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	QP: RB=120kHz, DET=Quasi-Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	19 °C, 62 % RH
Tested By	Willy Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	112.94	26.2 QP	43.5	-17.3	2.00 H	90	41.6	-15.4
2	150.81	32.2 QP	43.5	-11.3	2.00 H	94	44.4	-12.2
3	181.71	28.4 QP	43.5	-15.1	2.00 H	293	42.7	-14.3
4	227.83	30.9 QP	46.0	-15.1	1.00 H	109	46.2	-15.3
5	376.73	35.8 QP	46.0	-10.2	1.00 H	125	45.6	-9.8
6	803.16	34.7 QP	46.0	-11.3	1.00 H	155	36.1	-1.4

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.

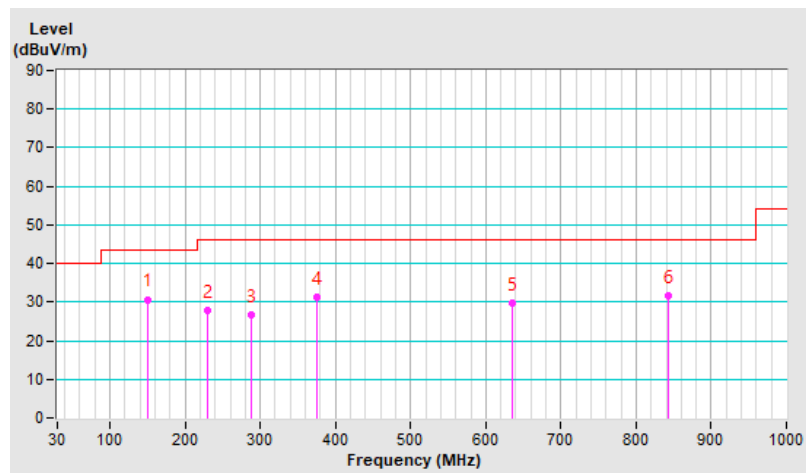


RF Mode	802.11a	Channel	CH 40 : 5200 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	QP: RB=120kHz, DET=Quasi-Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	19 °C, 62 % RH
Tested By	Willy Lin		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	149.58	30.7 QP	43.5	-12.8	1.00 V	249	42.8	-12.1
2	229.99	27.8 QP	46.0	-18.2	1.00 V	201	43.0	-15.2
3	288.48	26.8 QP	46.0	-19.2	2.00 V	188	38.8	-12.0
4	375.59	31.3 QP	46.0	-14.7	2.00 V	97	41.1	-9.8
5	635.76	29.8 QP	46.0	-16.2	2.00 V	360	33.5	-3.7
6	843.59	31.6 QP	46.0	-14.4	3.00 V	1	32.6	-1.0

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.



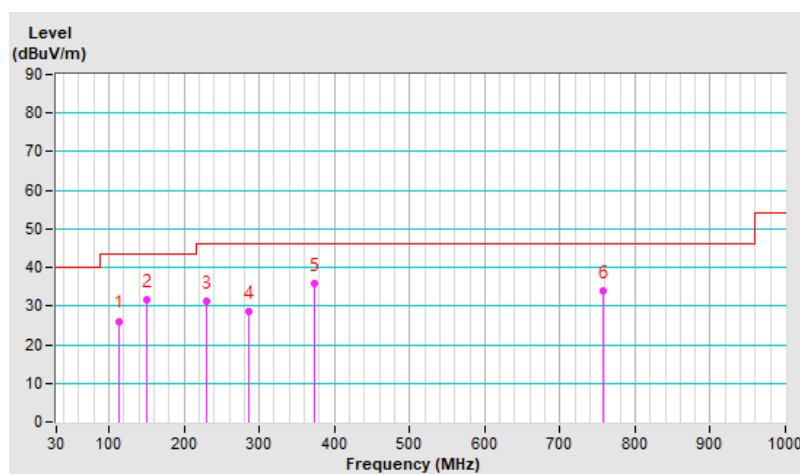
Mode B

RF Mode	802.11a	Channel	CH 48 : 5240 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	QP: RB=120kHz, DET=Quasi-Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	19 °C, 62 % RH
Tested By	Willy Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	113.81	26.1 QP	43.5	-17.4	2.00 H	85	41.4	-15.3
2	149.77	31.8 QP	43.5	-11.7	2.00 H	101	43.9	-12.1
3	229.26	31.2 QP	46.0	-14.8	1.00 H	120	46.4	-15.2
4	285.81	28.7 QP	46.0	-17.3	1.00 H	115	40.8	-12.1
5	373.55	35.8 QP	46.0	-10.2	1.00 H	305	45.7	-9.9
6	757.84	34.0 QP	46.0	-12.0	1.00 H	140	35.8	-1.8

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.

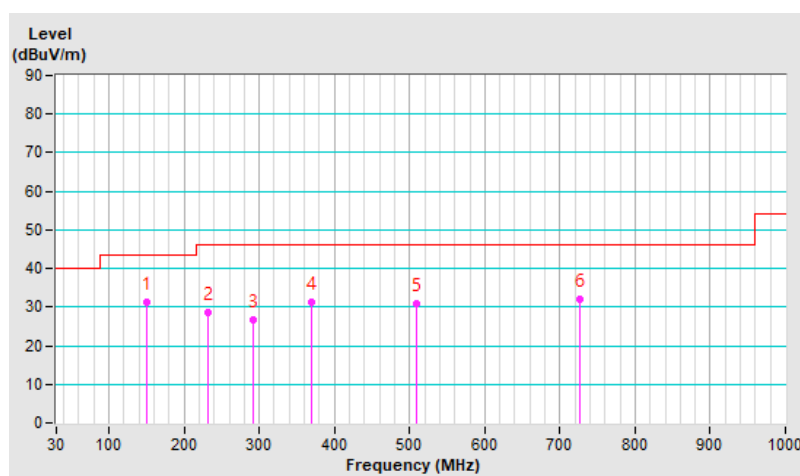


RF Mode	802.11a	Channel	CH 48 : 5240 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	QP: RB=120kHz, DET=Quasi-Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	19 °C, 62 % RH
Tested By	Willy Lin		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	150.67	31.3 QP	43.5	-12.2	1.00 V	249	43.5	-12.2
2	232.49	28.6 QP	46.0	-17.4	1.00 V	196	43.4	-14.8
3	292.41	26.7 QP	46.0	-19.3	2.00 V	214	38.7	-12.0
4	369.48	31.3 QP	46.0	-14.7	2.00 V	104	41.3	-10.0
5	509.06	30.8 QP	46.0	-15.2	1.00 V	244	37.4	-6.6
6	727.02	32.0 QP	46.0	-14.0	1.00 V	249	34.4	-2.4

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.



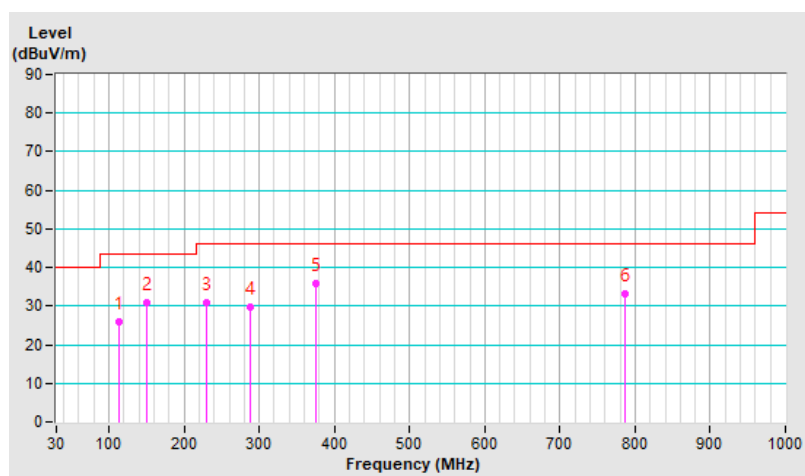
Mode C

RF Mode	802.11ax (HE20)	Channel	CH 157 : 5785 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	QP: RB=120kHz, DET=Quasi-Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	19 °C, 62 % RH
Tested By	Willy Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	112.47	26.0 QP	43.5	-17.5	2.00 H	105	41.4	-15.4
2	149.43	30.7 QP	43.5	-12.8	2.00 H	96	42.9	-12.2
3	229.07	30.9 QP	46.0	-15.1	1.00 H	113	46.1	-15.2
4	288.31	29.6 QP	46.0	-16.4	1.00 H	105	41.6	-12.0
5	375.51	35.7 QP	46.0	-10.3	1.00 H	129	45.5	-9.8
6	786.43	33.1 QP	46.0	-12.9	1.00 H	147	34.4	-1.3

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.

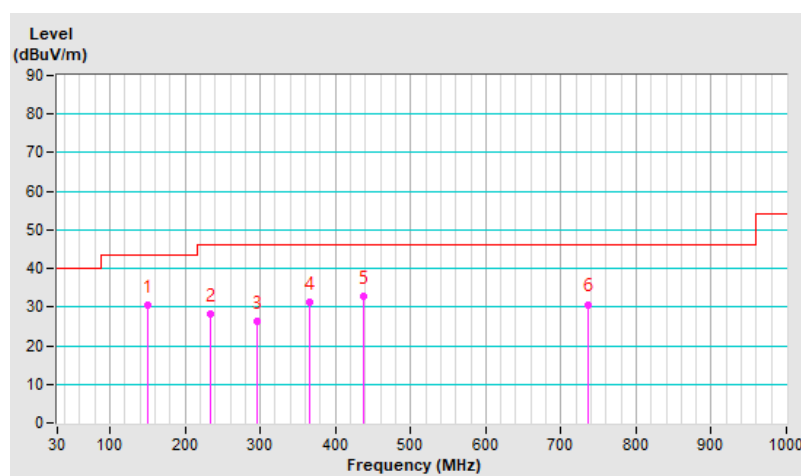


RF Mode	802.11ax (HE20)	Channel	CH 157 : 5785 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	QP: RB=120kHz, DET=Quasi-Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	19 °C, 62 % RH
Tested By	Willy Lin		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	150.04	30.6 QP	43.5	-12.9	1.00 V	236	42.7	-12.1
2	233.85	28.1 QP	46.0	-17.9	1.00 V	191	42.8	-14.7
3	296.65	26.2 QP	46.0	-19.8	2.00 V	360	38.1	-11.9
4	365.45	31.2 QP	46.0	-14.8	2.00 V	105	41.3	-10.1
5	438.35	32.9 QP	46.0	-13.1	1.00 V	194	41.0	-8.1
6	735.48	30.7 QP	46.0	-15.3	2.00 V	180	32.9	-2.2

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.



7.8 Unwanted Emissions above 1 GHz

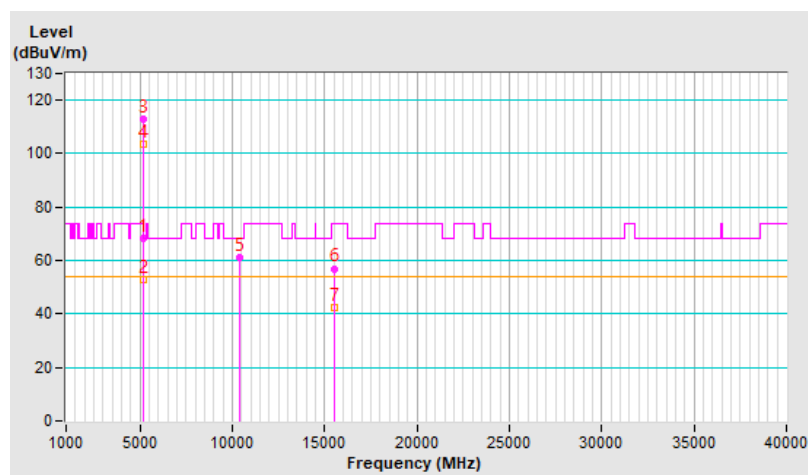
Mode A

RF Mode	802.11a	Channel	CH 36 : 5180 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	22 °C, 65 % RH
Tested By	Willy Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	68.5 PK	74.0	-5.5	1.50 H	246	65.8	2.7
2	5150.00	53.0 AV	54.0	-1.0	1.50 H	246	50.3	2.7
3	*5180.00	112.9 PK			1.50 H	246	110.5	2.4
4	*5180.00	103.4 AV			1.50 H	246	101.0	2.4
5	#10360.00	61.2 PK	68.2	-7.0	1.46 H	270	49.0	12.2
6	15540.00	57.0 PK	74.0	-17.0	1.44 H	320	44.8	12.2
7	15540.00	42.6 AV	54.0	-11.4	1.44 H	320	30.4	12.2

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

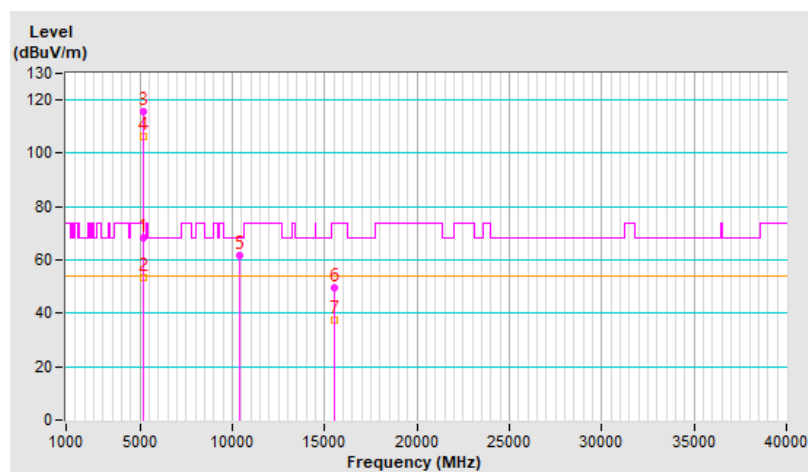


RF Mode	802.11a	Channel	CH 36 : 5180 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	22 °C, 65 % RH
Tested By	Willy Lin		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	68.3 PK	74.0	-5.7	1.50 V	17	65.6	2.7
2	5150.00	53.6 AV	54.0	-0.4	1.50 V	17	50.9	2.7
3	*5180.00	115.9 PK			1.50 V	17	113.5	2.4
4	*5180.00	106.3 AV			1.50 V	17	103.9	2.4
5	#10360.00	61.5 PK	68.2	-6.7	1.72 V	241	49.3	12.2
6	15540.00	49.5 PK	74.0	-24.5	1.50 V	148	37.3	12.2
7	15540.00	37.5 AV	54.0	-16.5	1.50 V	148	25.3	12.2

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

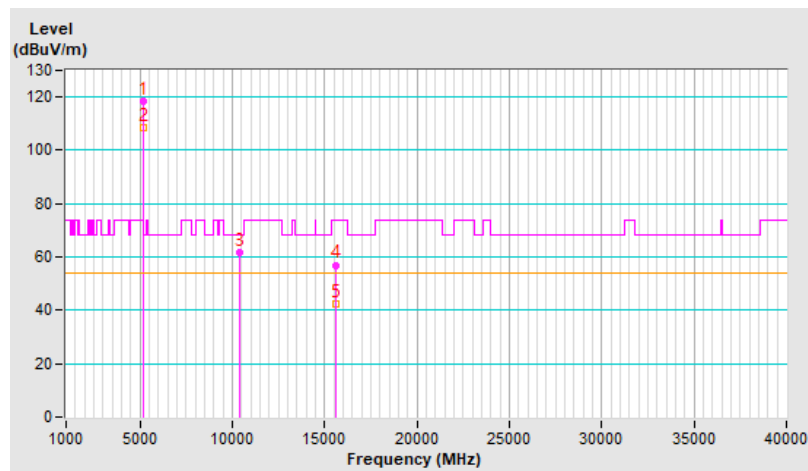


RF Mode	802.11a	Channel	CH 40 : 5200 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	22 °C, 65 % RH
Tested By	Willy Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5200.00	118.2 PK			1.50 H	253	116.0	2.2
2	*5200.00	108.3 AV			1.50 H	253	106.1	2.2
3	#10400.00	61.5 PK	68.2	-6.7	1.40 H	279	49.0	12.5
4	15600.00	57.0 PK	74.0	-17.0	1.43 H	329	44.8	12.2
5	15600.00	42.6 AV	54.0	-11.4	1.43 H	329	30.4	12.2

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

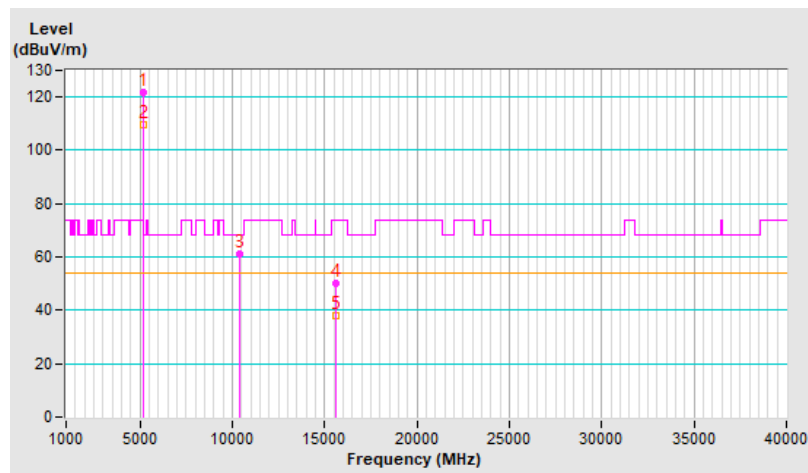


RF Mode	802.11a	Channel	CH 40 : 5200 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	22 °C, 65 % RH
Tested By	Willy Lin		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5200.00	121.6 PK			1.50 V	21	119.4	2.2
2	*5200.00	109.5 AV			1.50 V	21	107.3	2.2
3	#10400.00	61.3 PK	68.2	-6.9	1.71 V	253	48.8	12.5
4	15600.00	50.0 PK	74.0	-24.0	1.49 V	141	37.8	12.2
5	15600.00	38.0 AV	54.0	-16.0	1.49 V	141	25.8	12.2

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.

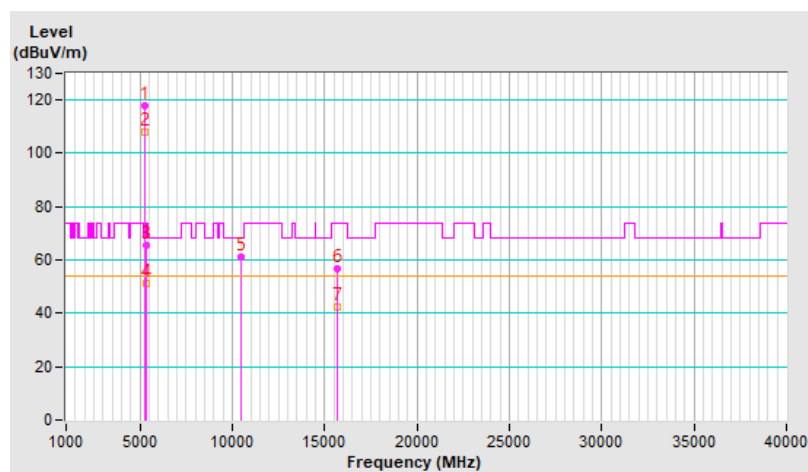


RF Mode	802.11a	Channel	CH 48 : 5240 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	22 °C, 65 % RH
Tested By	Willy Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5240.00	117.9 PK			1.54 H	253	115.9	2.0
2	*5240.00	108.1 AV			1.54 H	253	106.1	2.0
3	5350.00	65.3 PK	74.0	-8.7	1.54 H	253	63.1	2.2
4	5350.00	51.3 AV	54.0	-2.7	1.54 H	253	49.1	2.2
5	#10480.00	60.9 PK	68.2	-7.3	1.45 H	261	48.7	12.2
6	15720.00	56.6 PK	74.0	-17.4	1.48 H	320	44.9	11.7
7	15720.00	42.3 AV	54.0	-11.7	1.48 H	320	30.6	11.7

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.

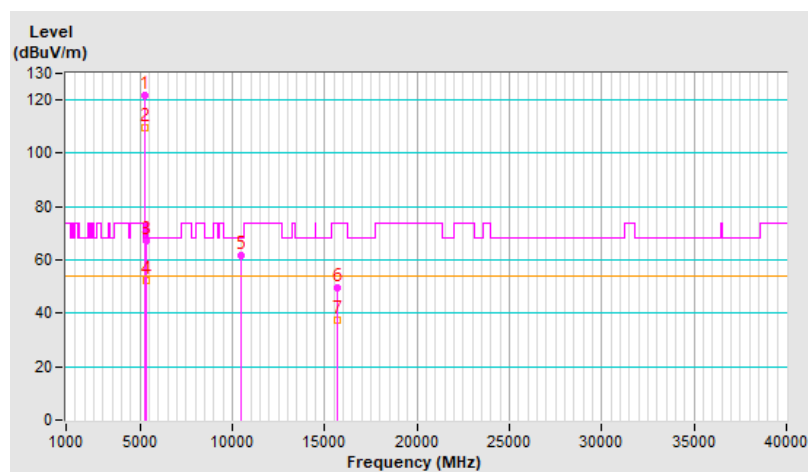


RF Mode	802.11a	Channel	CH 48 : 5240 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	22 °C, 65 % RH
Tested By	Willy Lin		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5240.00	121.7 PK			1.52 V	33	119.7	2.0
2	*5240.00	109.6 AV			1.52 V	33	107.6	2.0
3	5350.00	67.1 PK	74.0	-6.9	1.52 V	33	64.9	2.2
4	5350.00	52.5 AV	54.0	-1.5	1.52 V	33	50.3	2.2
5	#10480.00	61.5 PK	68.2	-6.7	1.74 V	236	49.3	12.2
6	15720.00	49.8 PK	74.0	-24.2	1.50 V	138	38.1	11.7
7	15720.00	37.5 AV	54.0	-16.5	1.50 V	138	25.8	11.7

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.

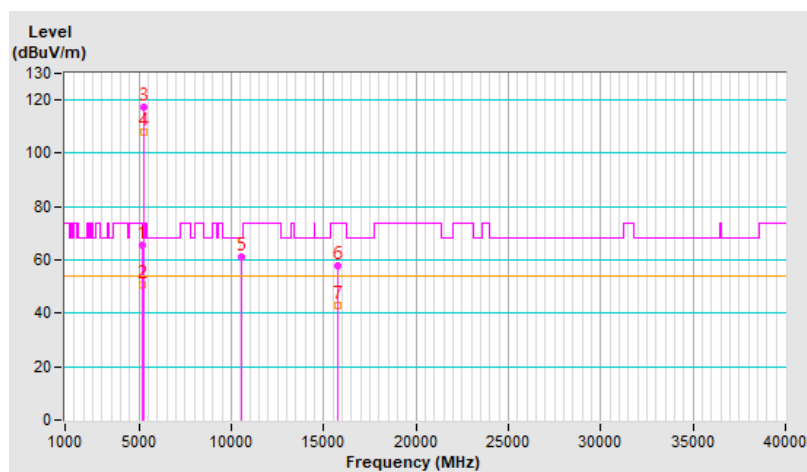


RF Mode	802.11a	Channel	CH 52 : 5260 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	22 °C, 65 % RH
Tested By	Willy Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	65.5 PK	74.0	-8.5	1.48 H	242	62.8	2.7
2	5150.00	50.6 AV	54.0	-3.4	1.48 H	242	47.9	2.7
3	*5260.00	117.3 PK			1.48 H	242	115.4	1.9
4	*5260.00	107.8 AV			1.48 H	242	105.9	1.9
5	#10520.00	60.9 PK	68.2	-7.3	1.45 H	268	48.8	12.1
6	15780.00	57.7 PK	74.0	-16.3	1.44 H	309	46.1	11.6
7	15780.00	43.1 AV	54.0	-10.9	1.44 H	309	31.5	11.6

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

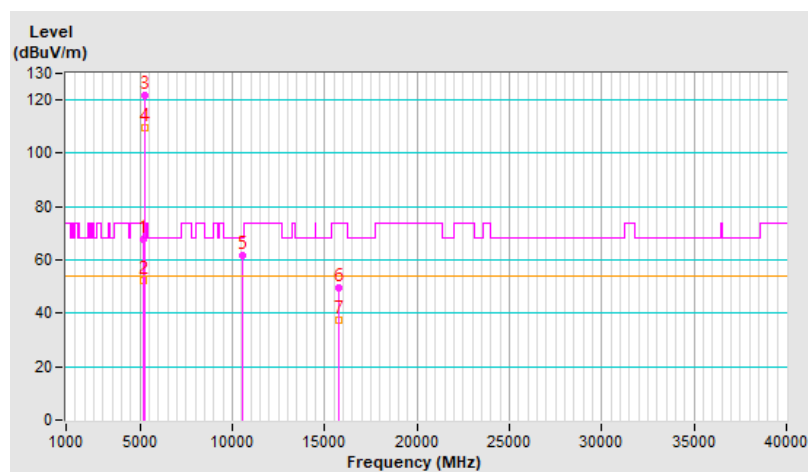


RF Mode	802.11a	Channel	CH 52 : 5260 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	22 °C, 65 % RH
Tested By	Willy Lin		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	67.5 PK	74.0	-6.5	1.48 V	30	64.8	2.7
2	5150.00	52.3 AV	54.0	-1.7	1.48 V	30	49.6	2.7
3	*5260.00	121.7 PK			1.48 V	30	119.8	1.9
4	*5260.00	109.4 AV			1.48 V	30	107.5	1.9
5	#10520.00	61.6 PK	68.2	-6.6	1.68 V	239	49.5	12.1
6	15780.00	49.6 PK	74.0	-24.4	1.46 V	141	38.0	11.6
7	15780.00	37.5 AV	54.0	-16.5	1.46 V	141	25.9	11.6

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

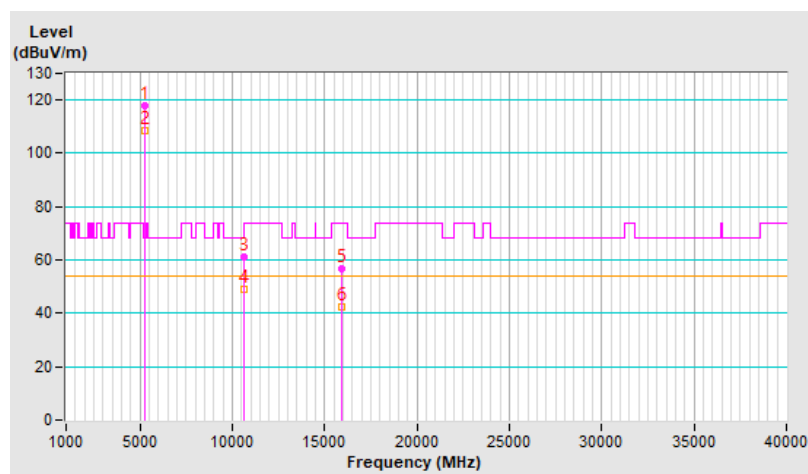


RF Mode	802.11a	Channel	CH 60 : 5300 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	22 °C, 65 % RH
Tested By	Willy Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5300.00	118.0 PK			1.56 H	235	116.2	1.8
2	*5300.00	108.3 AV			1.56 H	235	106.5	1.8
3	10600.00	61.3 PK	74.0	-12.7	1.42 H	275	49.0	12.3
4	10600.00	48.8 AV	54.0	-5.2	1.42 H	275	36.5	12.3
5	15900.00	56.7 PK	74.0	-17.3	1.41 H	322	45.5	11.2
6	15900.00	42.3 AV	54.0	-11.7	1.41 H	322	31.1	11.2

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.

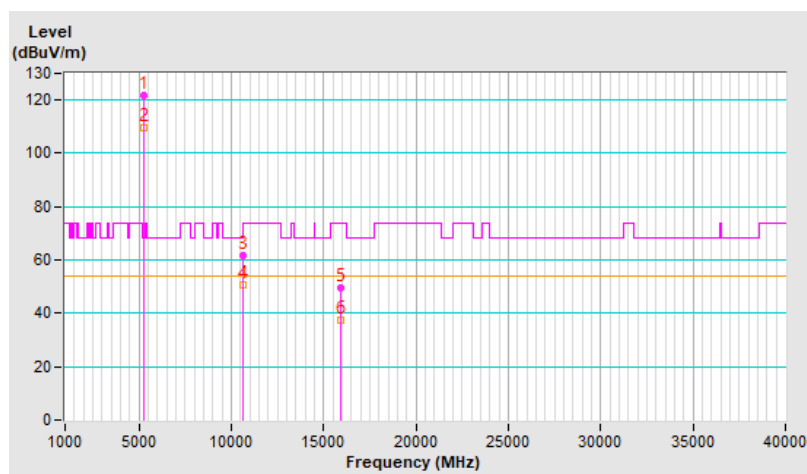


RF Mode	802.11a	Channel	CH 60 : 5300 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	22 °C, 65 % RH
Tested By	Willy Lin		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5300.00	121.8 PK			1.49 V	12	120.0	1.8
2	*5300.00	109.8 AV			1.49 V	12	108.0	1.8
3	10600.00	61.6 PK	74.0	-12.4	1.69 V	249	49.3	12.3
4	10600.00	50.8 AV	54.0	-3.2	1.69 V	249	38.5	12.3
5	15900.00	49.4 PK	74.0	-24.6	1.55 V	150	38.2	11.2
6	15900.00	37.3 AV	54.0	-16.7	1.55 V	150	26.1	11.2

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.

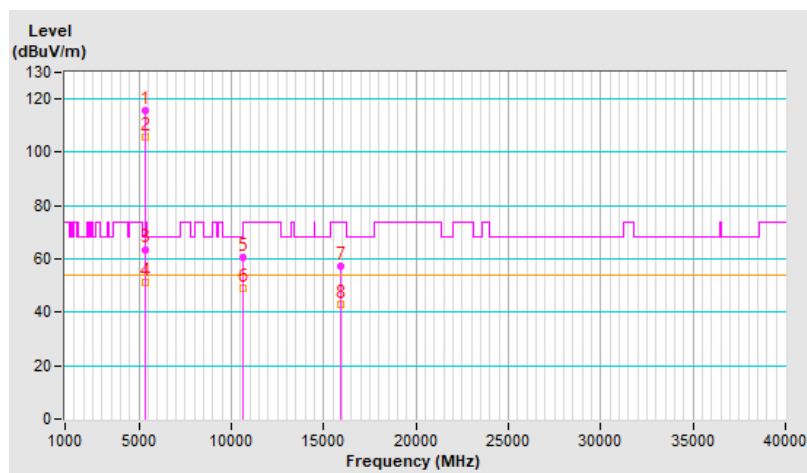


RF Mode	802.11a	Channel	CH 64 : 5320 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	22 °C, 65 % RH
Tested By	Willy Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5320.00	115.9 PK			1.31 H	42	113.9	2.0
2	*5320.00	105.9 AV			1.31 H	42	103.9	2.0
3	5350.00	63.6 PK	74.0	-10.4	1.31 H	42	61.4	2.2
4	5350.00	51.3 AV	54.0	-2.7	1.31 H	42	49.1	2.2
5	10640.00	60.8 PK	74.0	-13.2	1.44 H	284	48.5	12.3
6	10640.00	48.8 AV	54.0	-5.2	1.44 H	284	36.5	12.3
7	15960.00	57.3 PK	74.0	-16.7	1.47 H	319	45.8	11.5
8	15960.00	42.7 AV	54.0	-11.3	1.47 H	319	31.2	11.5

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.

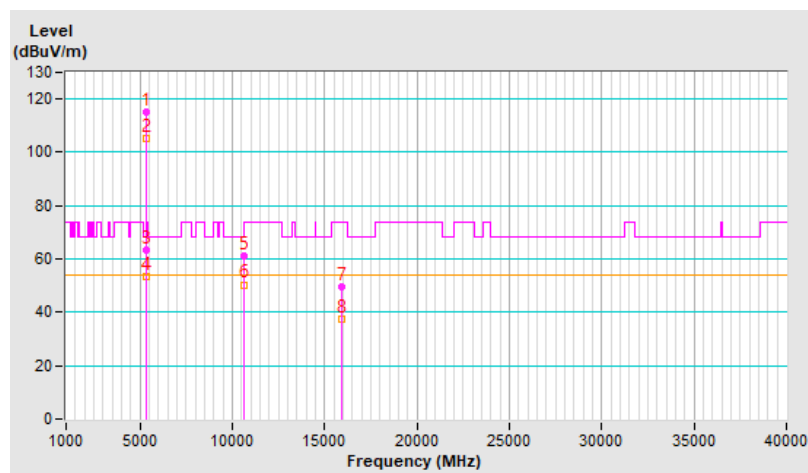


RF Mode	802.11a	Channel	CH 64 : 5320 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	22 °C, 65 % RH
Tested By	Willy Lin		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5320.00	115.1 PK			1.50 V	33	113.1	2.0
2	*5320.00	105.3 AV			1.50 V	33	103.3	2.0
3	5350.00	63.5 PK	74.0	-10.5	1.50 V	33	61.3	2.2
4	5350.00	53.6 AV	54.0	-0.4	1.50 V	33	51.4	2.2
5	10640.00	61.2 PK	74.0	-12.8	1.76 V	241	48.9	12.3
6	10640.00	50.4 AV	54.0	-3.6	1.76 V	241	38.1	12.3
7	15960.00	49.7 PK	74.0	-24.3	1.49 V	158	38.2	11.5
8	15960.00	37.6 AV	54.0	-16.4	1.49 V	158	26.1	11.5

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.

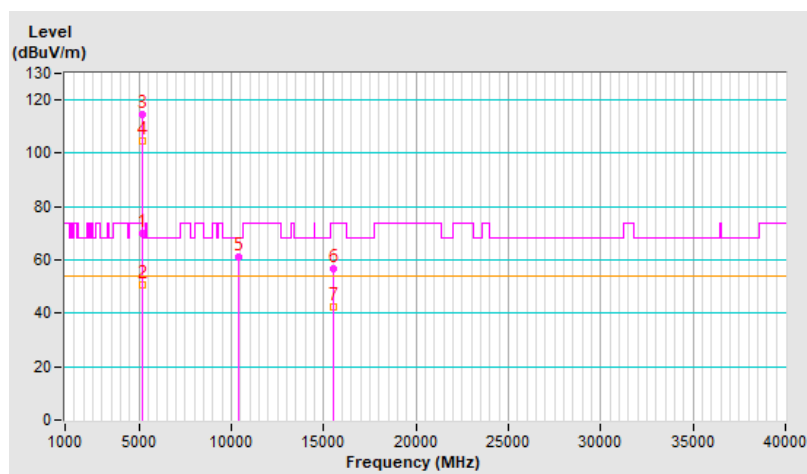


RF Mode	802.11ax (HE20)	Channel	CH 36 : 5180 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	22 °C, 65 % RH
Tested By	Willy Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	69.7 PK	74.0	-4.3	1.50 H	255	67.0	2.7
2	5150.00	50.8 AV	54.0	-3.2	1.50 H	255	48.1	2.7
3	*5180.00	114.7 PK			1.50 H	255	112.3	2.4
4	*5180.00	104.8 AV			1.50 H	255	102.4	2.4
5	#10360.00	61.1 PK	68.2	-7.1	1.45 H	263	48.9	12.2
6	15540.00	56.8 PK	74.0	-17.2	1.41 H	334	44.6	12.2
7	15540.00	42.2 AV	54.0	-11.8	1.41 H	334	30.0	12.2

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.

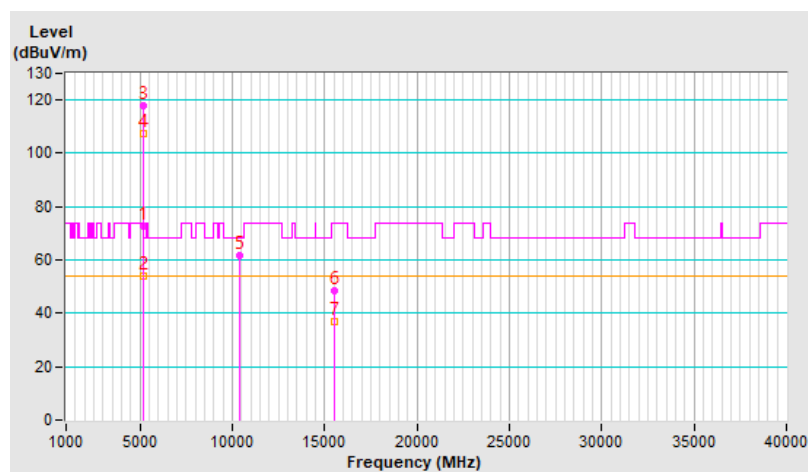


RF Mode	802.11ax (HE20)	Channel	CH 36 : 5180 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	22 °C, 65 % RH
Tested By	Willy Lin		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	72.5 PK	74.0	-1.5	1.50 V	10	69.8	2.7
2	5150.00	53.9 AV	54.0	-0.1	1.50 V	10	51.2	2.7
3	*5180.00	118.1 PK			1.50 V	10	115.7	2.4
4	*5180.00	107.3 AV			1.50 V	10	104.9	2.4
5	#10360.00	61.7 PK	68.2	-6.5	1.70 V	221	49.5	12.2
6	15540.00	48.7 PK	74.0	-25.3	1.42 V	156	36.5	12.2
7	15540.00	37.0 AV	54.0	-17.0	1.42 V	156	24.8	12.2

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

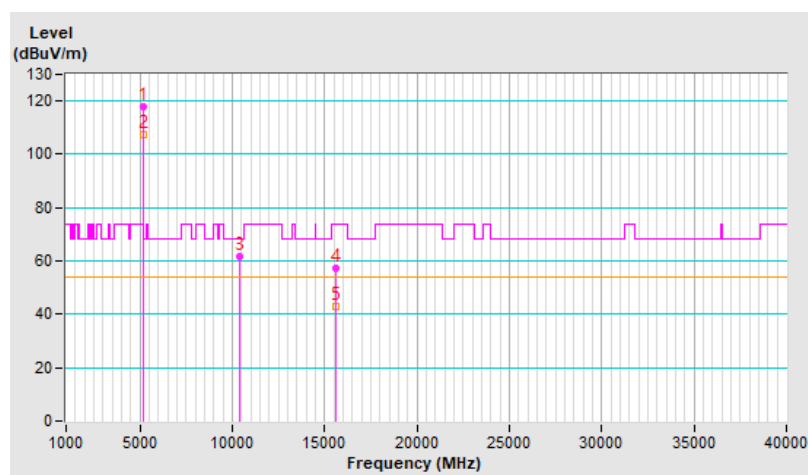


RF Mode	802.11ax (HE20)	Channel	CH 40 : 5200 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	22 °C, 65 % RH
Tested By	Willy Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5200.00	117.8 PK			1.52 H	259	115.6	2.2
2	*5200.00	107.5 AV			1.52 H	259	105.3	2.2
3	#10400.00	61.8 PK	68.2	-6.4	1.51 H	277	49.3	12.5
4	15600.00	57.4 PK	74.0	-16.6	1.40 H	320	45.2	12.2
5	15600.00	43.0 AV	54.0	-11.0	1.40 H	320	30.8	12.2

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

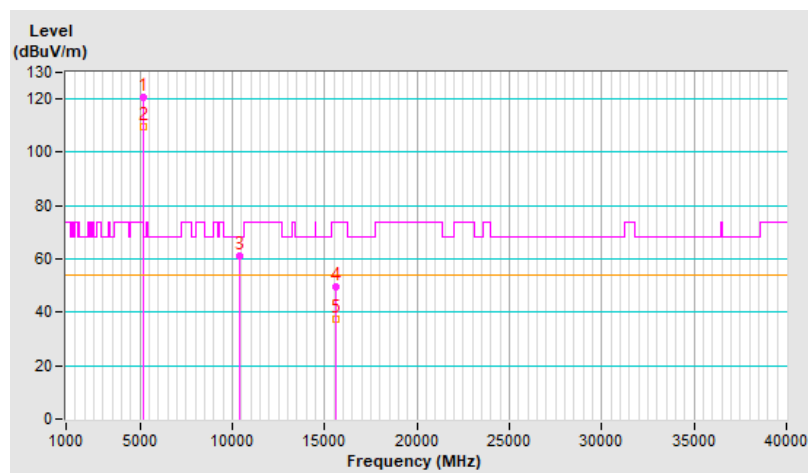


RF Mode	802.11ax (HE20)	Channel	CH 40 : 5200 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	22 °C, 65 % RH
Tested By	Willy Lin		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5200.00	120.7 PK			1.55 V	11	118.5	2.2
2	*5200.00	109.7 AV			1.55 V	11	107.5	2.2
3	#10400.00	61.2 PK	68.2	-7.0	1.74 V	239	48.7	12.5
4	15600.00	49.5 PK	74.0	-24.5	1.47 V	155	37.3	12.2
5	15600.00	37.6 AV	54.0	-16.4	1.47 V	155	25.4	12.2

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

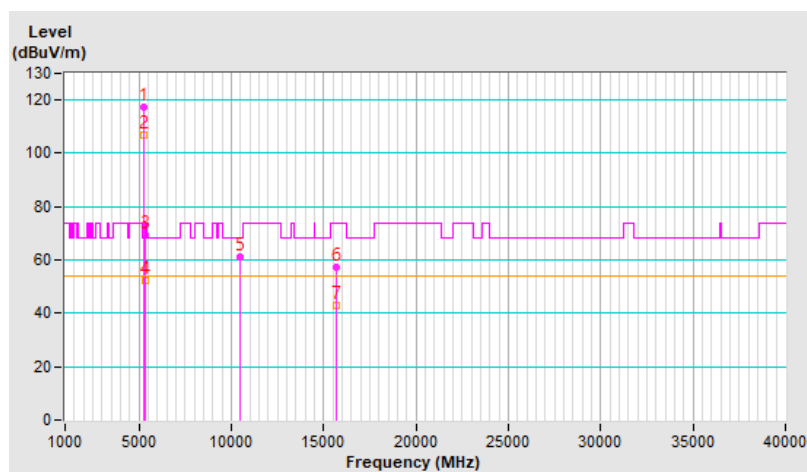


RF Mode	802.11ax (HE20)	Channel	CH 48 : 5240 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	22 °C, 65 % RH
Tested By	Willy Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5240.00	117.2 PK			1.51 H	246	115.2	2.0
2	*5240.00	107.0 AV			1.51 H	246	105.0	2.0
3	5350.00	69.3 PK	74.0	-4.7	1.51 H	246	67.1	2.2
4	5350.00	52.5 AV	54.0	-1.5	1.51 H	246	50.3	2.2
5	#10480.00	60.9 PK	68.2	-7.3	1.47 H	282	48.7	12.2
6	15720.00	57.2 PK	74.0	-16.8	1.43 H	309	45.5	11.7
7	15720.00	43.0 AV	54.0	-11.0	1.43 H	309	31.3	11.7

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.

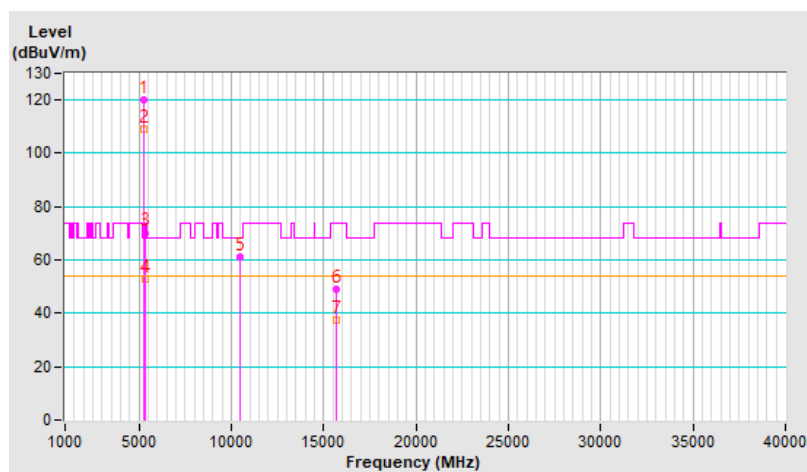


RF Mode	802.11ax (HE20)	Channel	CH 48 : 5240 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	22 °C, 65 % RH
Tested By	Willy Lin		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5240.00	120.3 PK			1.52 V	6	118.3	2.0
2	*5240.00	109.3 AV			1.52 V	6	107.3	2.0
3	5350.00	70.2 PK	74.0	-3.8	1.52 V	6	68.0	2.2
4	5350.00	53.1 AV	54.0	-0.9	1.52 V	6	50.9	2.2
5	#10480.00	61.3 PK	68.2	-6.9	1.75 V	244	49.1	12.2
6	15720.00	48.8 PK	74.0	-25.2	1.47 V	147	37.1	11.7
7	15720.00	37.2 AV	54.0	-16.8	1.47 V	147	25.5	11.7

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

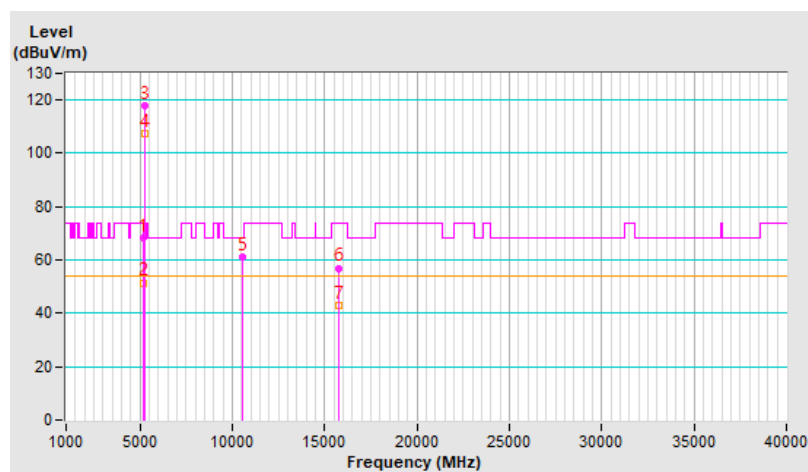


RF Mode	802.11ax (HE20)	Channel	CH 52 : 5260 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	22 °C, 65 % RH
Tested By	Willy Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	68.1 PK	74.0	-5.9	1.48 H	261	65.4	2.7
2	5150.00	51.5 AV	54.0	-2.5	1.48 H	261	48.8	2.7
3	*5260.00	117.7 PK			1.48 H	261	115.8	1.9
4	*5260.00	107.2 AV			1.48 H	261	105.3	1.9
5	#10520.00	60.9 PK	68.2	-7.3	1.49 H	268	48.8	12.1
6	15780.00	57.0 PK	74.0	-17.0	1.41 H	319	45.4	11.6
7	15780.00	42.8 AV	54.0	-11.2	1.41 H	319	31.2	11.6

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.

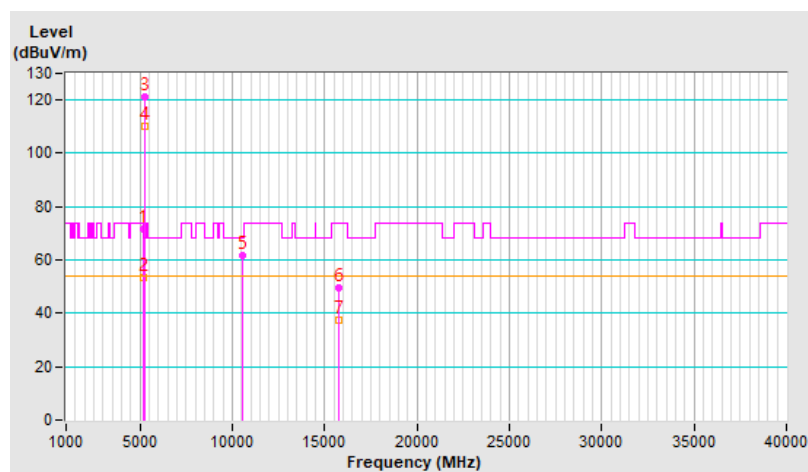


RF Mode	802.11ax (HE20)	Channel	CH 52 : 5260 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	22 °C, 65 % RH
Tested By	Willy Lin		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	71.5 PK	74.0	-2.5	1.52 V	23	68.8	2.7
2	5150.00	53.2 AV	54.0	-0.8	1.52 V	23	50.5	2.7
3	*5260.00	121.4 PK			1.52 V	23	119.5	1.9
4	*5260.00	110.1 AV			1.52 V	23	108.2	1.9
5	#10520.00	61.6 PK	68.2	-6.6	1.74 V	245	49.5	12.1
6	15780.00	49.7 PK	74.0	-24.3	1.40 V	138	38.1	11.6
7	15780.00	37.6 AV	54.0	-16.4	1.40 V	138	26.0	11.6

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

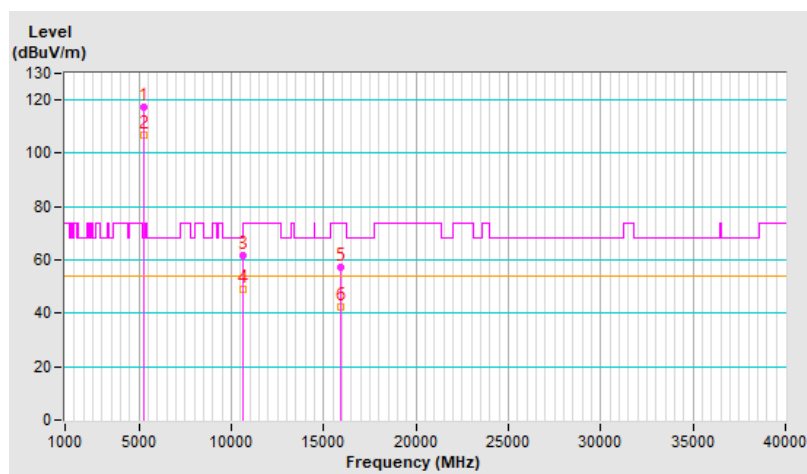


RF Mode	802.11ax (HE20)	Channel	CH 60 : 5300 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	22 °C, 65 % RH
Tested By	Willy Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5300.00	117.4 PK			1.43 H	264	115.6	1.8
2	*5300.00	107.0 AV			1.43 H	264	105.2	1.8
3	10600.00	61.6 PK	74.0	-12.4	1.43 H	266	49.3	12.3
4	10600.00	49.1 AV	54.0	-4.9	1.43 H	266	36.8	12.3
5	15900.00	57.2 PK	74.0	-16.8	1.45 H	307	46.0	11.2
6	15900.00	42.5 AV	54.0	-11.5	1.45 H	307	31.3	11.2

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.

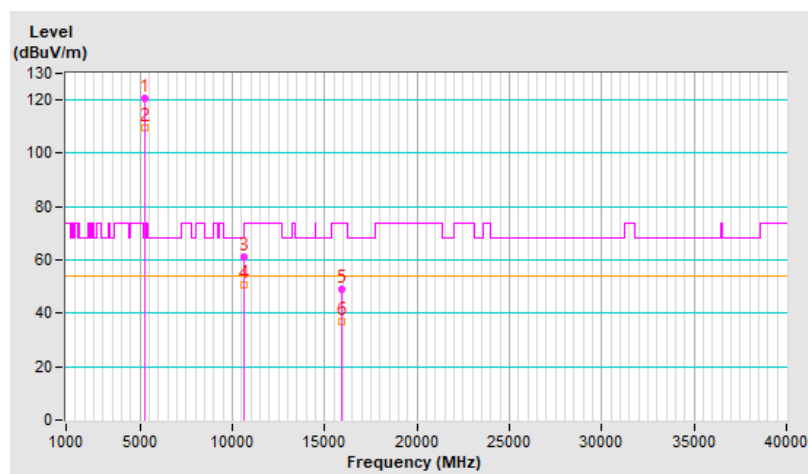


RF Mode	802.11ax (HE20)	Channel	CH 60 : 5300 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	22 °C, 65 % RH
Tested By	Willy Lin		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5300.00	120.6 PK			1.49 V	21	118.8	1.8
2	*5300.00	109.5 AV			1.49 V	21	107.7	1.8
3	10600.00	61.0 PK	74.0	-13.0	1.70 V	245	48.7	12.3
4	10600.00	50.5 AV	54.0	-3.5	1.70 V	245	38.2	12.3
5	15900.00	49.2 PK	74.0	-24.8	1.46 V	146	38.0	11.2
6	15900.00	37.0 AV	54.0	-17.0	1.46 V	146	25.8	11.2

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.

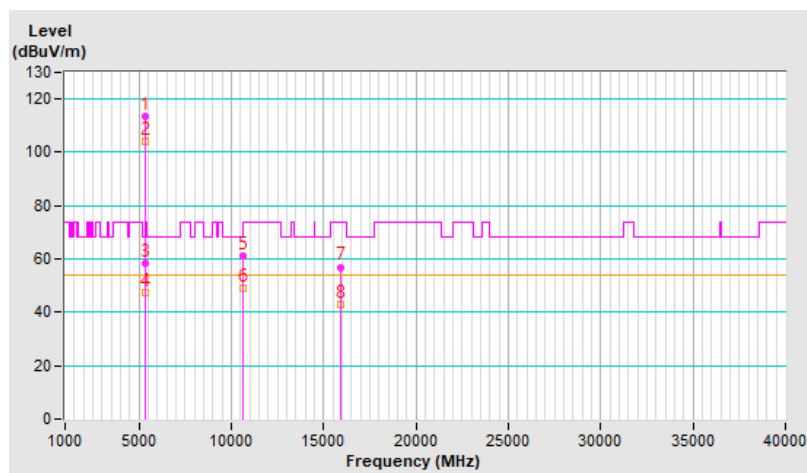


RF Mode	802.11ax (HE20)	Channel	CH 64 : 5320 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	22 °C, 65 % RH
Tested By	Willy Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5320.00	113.2 PK			1.69 H	217	111.2	2.0
2	*5320.00	104.2 AV			1.69 H	217	102.2	2.0
3	5350.00	58.3 PK	74.0	-15.7	1.69 H	217	56.1	2.2
4	5350.00	47.5 AV	54.0	-6.5	1.69 H	217	45.3	2.2
5	10640.00	61.1 PK	74.0	-12.9	1.49 H	272	48.8	12.3
6	10640.00	48.9 AV	54.0	-5.1	1.49 H	272	36.6	12.3
7	15960.00	57.0 PK	74.0	-17.0	1.45 H	323	45.5	11.5
8	15960.00	42.8 AV	54.0	-11.2	1.45 H	323	31.3	11.5

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.

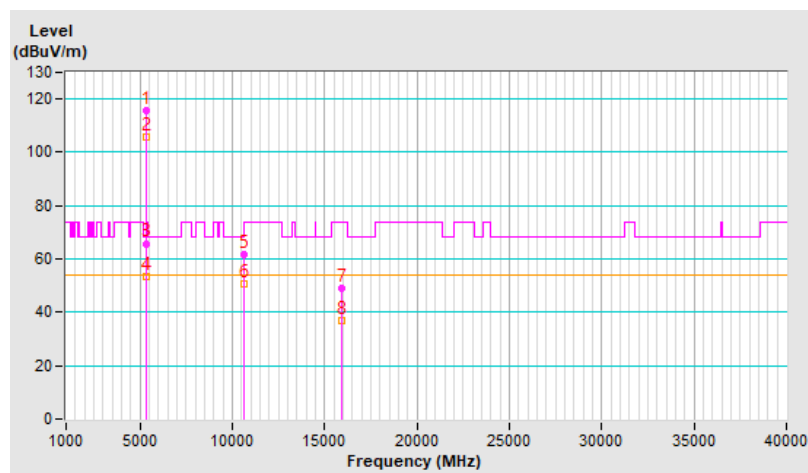


RF Mode	802.11ax (HE20)	Channel	CH 64 : 5320 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	22 °C, 65 % RH
Tested By	Willy Lin		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5320.00	115.6 PK			1.51 V	12	113.6	2.0
2	*5320.00	105.9 AV			1.51 V	12	103.9	2.0
3	5350.00	65.8 PK	74.0	-8.2	1.51 V	12	63.6	2.2
4	5350.00	53.5 AV	54.0	-0.5	1.51 V	12	51.3	2.2
5	10640.00	61.8 PK	74.0	-12.2	1.75 V	240	49.5	12.3
6	10640.00	50.9 AV	54.0	-3.1	1.75 V	240	38.6	12.3
7	15960.00	48.9 PK	74.0	-25.1	1.46 V	162	37.4	11.5
8	15960.00	36.9 AV	54.0	-17.1	1.46 V	162	25.4	11.5

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.

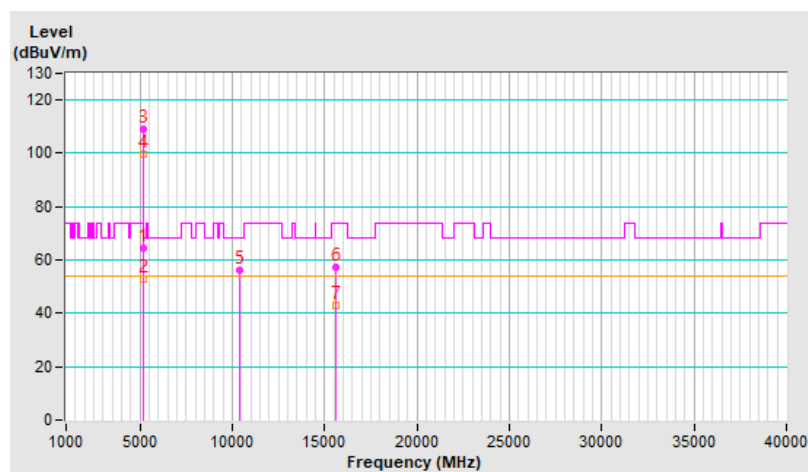


RF Mode	802.11ax (HE40)	Channel	CH 38 : 5190 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	22 °C, 65 % RH
Tested By	Willy Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	64.5 PK	74.0	-9.5	1.70 H	284	61.8	2.7
2	5150.00	53.1 AV	54.0	-0.9	1.70 H	284	50.4	2.7
3	*5190.00	108.9 PK			1.70 H	284	106.6	2.3
4	*5190.00	99.5 AV			1.70 H	284	97.2	2.3
5	#10380.00	56.4 PK	68.2	-11.8	1.44 H	283	44.1	12.3
6	15570.00	57.3 PK	74.0	-16.7	1.48 H	304	45.1	12.2
7	15570.00	42.7 AV	54.0	-11.3	1.48 H	304	30.5	12.2

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

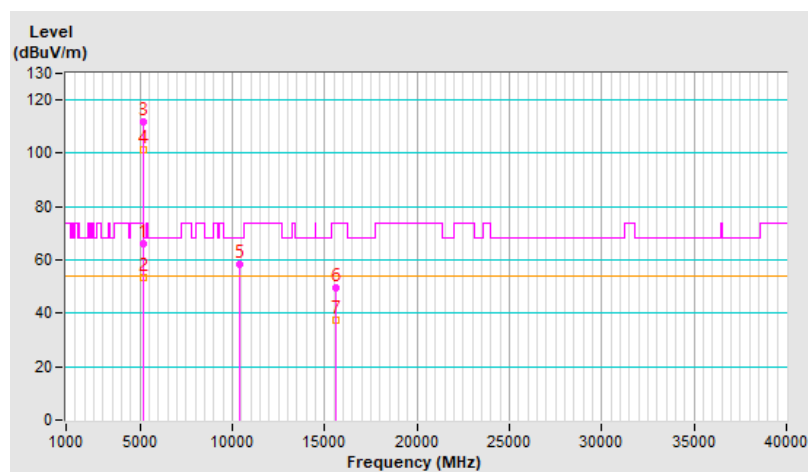


RF Mode	802.11ax (HE40)	Channel	CH 38 : 5190 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	22 °C, 65 % RH
Tested By	Willy Lin		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	66.3 PK	74.0	-7.7	1.51 V	30	63.6	2.7
2	5150.00	53.5 AV	54.0	-0.5	1.51 V	30	50.8	2.7
3	*5190.00	111.9 PK			1.51 V	30	109.6	2.3
4	*5190.00	101.2 AV			1.51 V	30	98.9	2.3
5	#10380.00	58.5 PK	68.2	-9.7	1.71 V	236	46.2	12.3
6	15570.00	49.4 PK	74.0	-24.6	1.47 V	149	37.2	12.2
7	15570.00	37.4 AV	54.0	-16.6	1.47 V	149	25.2	12.2

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

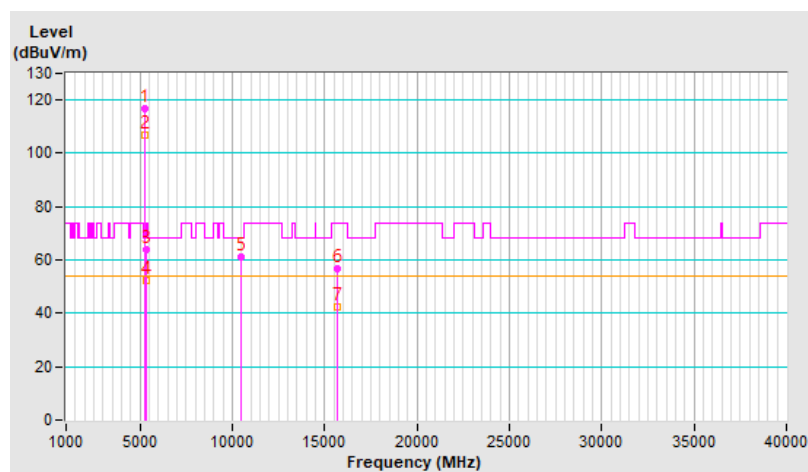


RF Mode	802.11ax (HE40)	Channel	CH 46 : 5230 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	22 °C, 65 % RH
Tested By	Willy Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5230.00	116.6 PK			1.66 H	278	114.5	2.1
2	*5230.00	106.7 AV			1.66 H	278	104.6	2.1
3	5350.00	64.1 PK	74.0	-9.9	1.66 H	278	61.9	2.2
4	5350.00	52.5 AV	54.0	-1.5	1.66 H	278	50.3	2.2
5	#10460.00	61.1 PK	68.2	-7.1	1.52 H	259	48.9	12.2
6	15690.00	56.8 PK	74.0	-17.2	1.49 H	320	45.1	11.7
7	15690.00	42.3 AV	54.0	-11.7	1.49 H	320	30.6	11.7

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.

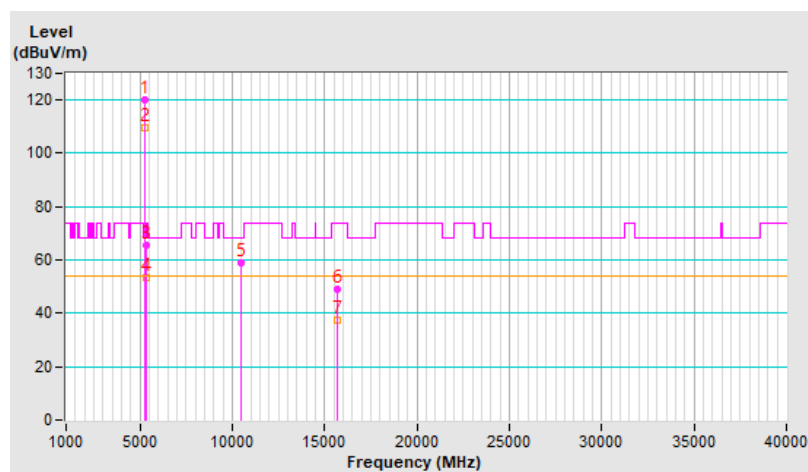


RF Mode	802.11ax (HE40)	Channel	CH 46 : 5230 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	22 °C, 65 % RH
Tested By	Willy Lin		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5230.00	120.0 PK			1.45 V	30	117.9	2.1
2	*5230.00	109.6 AV			1.45 V	30	107.5	2.1
3	5350.00	65.3 PK	74.0	-8.7	1.45 V	30	63.1	2.2
4	5350.00	53.4 AV	54.0	-0.6	1.45 V	30	51.2	2.2
5	#10460.00	58.9 PK	68.2	-9.3	1.68 V	243	46.7	12.2
6	15690.00	49.0 PK	74.0	-25.0	1.43 V	151	37.3	11.7
7	15690.00	37.2 AV	54.0	-16.8	1.43 V	151	25.5	11.7

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

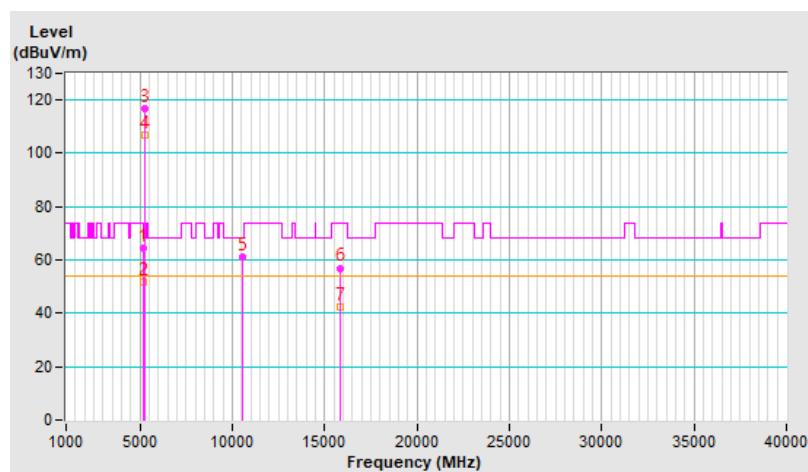


RF Mode	802.11ax (HE40)	Channel	CH 54 : 5270 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	22 °C, 65 % RH
Tested By	Willy Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	64.3 PK	74.0	-9.7	1.71 H	276	61.6	2.7
2	5150.00	51.6 AV	54.0	-2.4	1.71 H	276	48.9	2.7
3	*5270.00	117.0 PK			1.71 H	276	115.0	2.0
4	*5270.00	106.9 AV			1.71 H	276	104.9	2.0
5	#10540.00	61.1 PK	68.2	-7.1	1.49 H	279	48.9	12.2
6	15810.00	57.0 PK	74.0	-17.0	1.46 H	312	45.4	11.6
7	15810.00	42.4 AV	54.0	-11.6	1.46 H	312	30.8	11.6

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

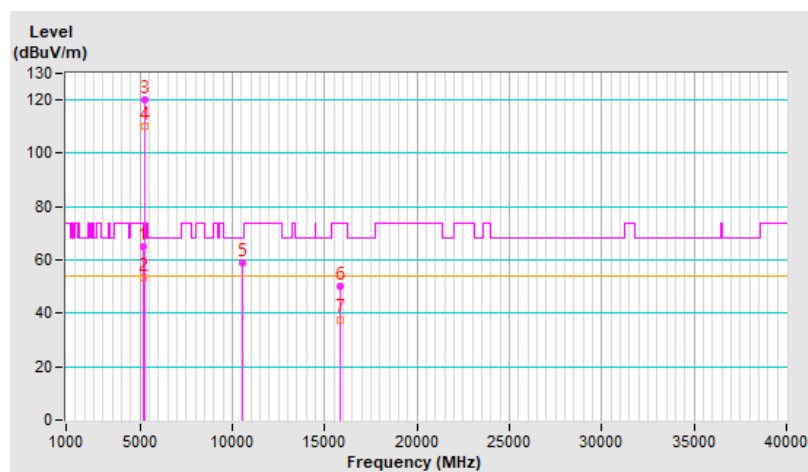


RF Mode	802.11ax (HE40)	Channel	CH 54 : 5270 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	22 °C, 65 % RH
Tested By	Willy Lin		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	65.0 PK	74.0	-9.0	1.49 V	28	62.3	2.7
2	5150.00	53.2 AV	54.0	-0.8	1.49 V	28	50.5	2.7
3	*5270.00	120.2 PK			1.49 V	28	118.2	2.0
4	*5270.00	110.0 AV			1.49 V	28	108.0	2.0
5	#10540.00	58.7 PK	68.2	-9.5	1.77 V	234	46.5	12.2
6	15810.00	49.9 PK	74.0	-24.1	1.48 V	149	38.3	11.6
7	15810.00	37.7 AV	54.0	-16.3	1.48 V	149	26.1	11.6

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.

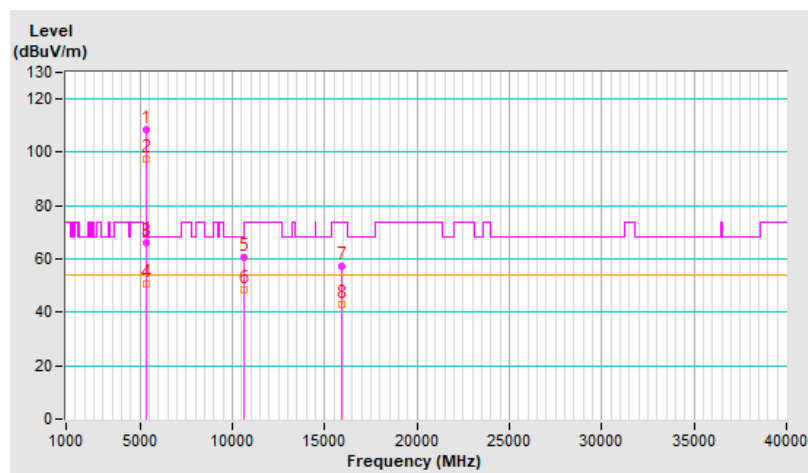


RF Mode	802.11ax (HE40)	Channel	CH 62 : 5310 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	22 °C, 65 % RH
Tested By	Willy Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5310.00	108.4 PK			1.64 H	256	106.4	2.0
2	*5310.00	97.6 AV			1.64 H	256	95.6	2.0
3	5350.00	66.2 PK	74.0	-7.8	1.64 H	256	64.0	2.2
4	5350.00	50.7 AV	54.0	-3.3	1.64 H	256	48.5	2.2
5	10620.00	60.8 PK	74.0	-13.2	1.49 H	266	48.5	12.3
6	10620.00	48.5 AV	54.0	-5.5	1.49 H	266	36.2	12.3
7	15930.00	57.5 PK	74.0	-16.5	1.39 H	314	46.1	11.4
8	15930.00	42.8 AV	54.0	-11.2	1.39 H	314	31.4	11.4

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.

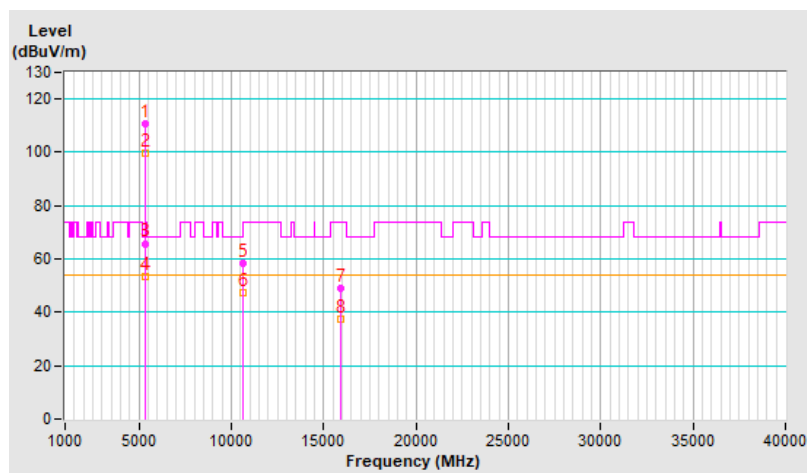


RF Mode	802.11ax (HE40)	Channel	CH 62 : 5310 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	22 °C, 65 % RH
Tested By	Willy Lin		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5310.00	110.5 PK			1.53 V	26	108.5	2.0
2	*5310.00	99.8 AV			1.53 V	26	97.8	2.0
3	5350.00	65.8 PK	74.0	-8.2	1.53 V	26	63.6	2.2
4	5350.00	53.5 AV	54.0	-0.5	1.53 V	26	51.3	2.2
5	10620.00	58.3 PK	74.0	-15.7	1.68 V	221	46.0	12.3
6	10620.00	47.1 AV	54.0	-6.9	1.68 V	221	34.8	12.3
7	15930.00	49.2 PK	74.0	-24.8	1.48 V	149	37.8	11.4
8	15930.00	37.3 AV	54.0	-16.7	1.48 V	149	25.9	11.4

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.

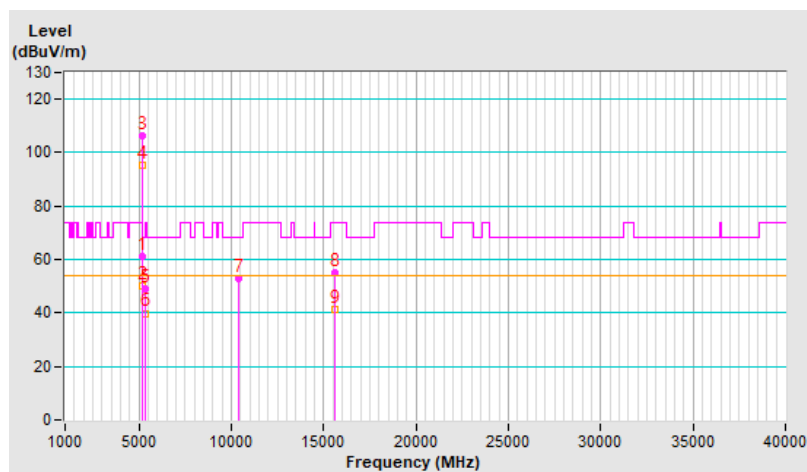


RF Mode	802.11ax (HE80)	Channel	CH 42 : 5210 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	22 °C, 65 % RH
Tested By	Willy Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	61.2 PK	74.0	-12.8	1.64 H	251	58.5	2.7
2	5150.00	50.0 AV	54.0	-4.0	1.64 H	251	47.3	2.7
3	*5210.00	106.5 PK			1.64 H	251	104.3	2.2
4	*5210.00	95.2 AV			1.64 H	251	93.0	2.2
5	5350.00	48.9 PK	74.0	-25.1	1.64 H	251	46.7	2.2
6	5350.00	39.9 AV	54.0	-14.1	1.64 H	251	37.7	2.2
7	#10420.00	53.1 PK	68.2	-15.1	1.42 H	265	40.8	12.3
8	15630.00	55.3 PK	74.0	-18.7	1.37 H	311	43.2	12.1
9	15630.00	41.2 AV	54.0	-12.8	1.37 H	311	29.1	12.1

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

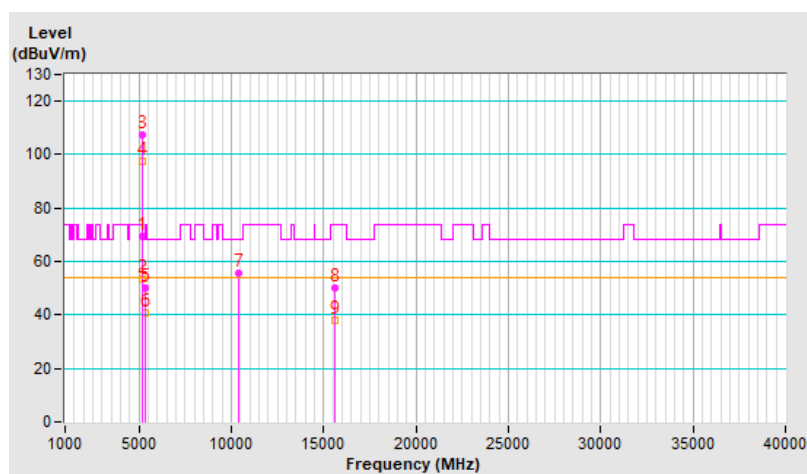


RF Mode	802.11ax (HE80)	Channel	CH 42 : 5210 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	22 °C, 65 % RH
Tested By	Willy Lin		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	69.3 PK	74.0	-4.7	1.53 V	28	66.6	2.7
2	5150.00	53.3 AV	54.0	-0.7	1.53 V	28	50.6	2.7
3	*5210.00	107.3 PK			1.53 V	28	105.1	2.2
4	*5210.00	97.6 AV			1.53 V	28	95.4	2.2
5	5350.00	50.2 PK	74.0	-23.8	1.53 V	28	48.0	2.2
6	5350.00	40.8 AV	54.0	-13.2	1.53 V	28	38.6	2.2
7	#10420.00	55.6 PK	68.2	-12.6	1.70 V	204	43.3	12.3
8	15630.00	50.1 PK	74.0	-23.9	1.46 V	157	38.0	12.1
9	15630.00	37.8 AV	54.0	-16.2	1.46 V	157	25.7	12.1

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

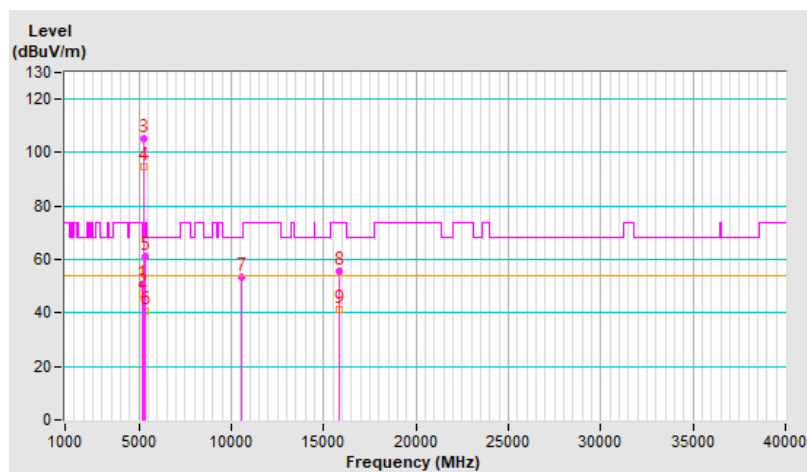


RF Mode	802.11ax (HE80)	Channel	CH 58 : 5290 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	22 °C, 65 % RH
Tested By	Willy Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	50.5 PK	74.0	-23.5	1.75 H	231	47.8	2.7
2	5150.00	47.5 AV	54.0	-6.5	1.75 H	231	44.8	2.7
3	*5290.00	105.1 PK			1.75 H	231	103.3	1.8
4	*5290.00	94.5 AV			1.75 H	231	92.7	1.8
5	5350.00	61.0 PK	74.0	-13.0	1.75 H	231	58.8	2.2
6	5350.00	40.5 AV	54.0	-13.5	1.75 H	231	38.3	2.2
7	#10580.00	53.3 PK	68.2	-14.9	1.48 H	252	41.1	12.2
8	15870.00	55.5 PK	74.0	-18.5	1.37 H	298	44.1	11.4
9	15870.00	41.2 AV	54.0	-12.8	1.37 H	298	29.8	11.4

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

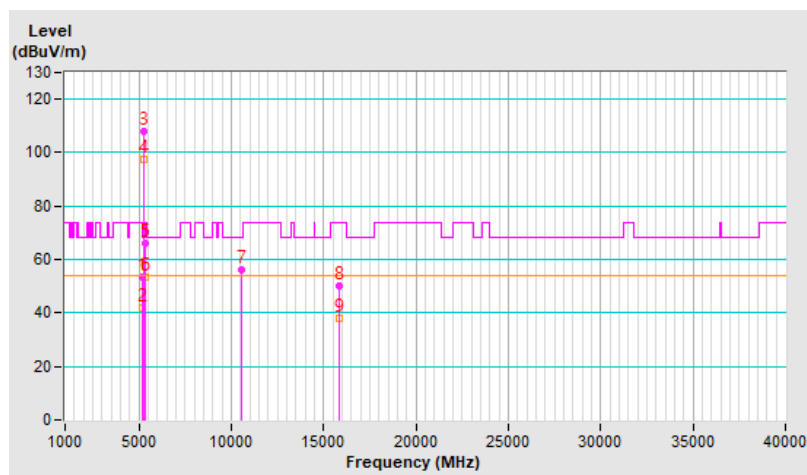


RF Mode	802.11ax (HE80)	Channel	CH 58 : 5290 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	22 °C, 65 % RH
Tested By	Willy Lin		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	53.5 PK	74.0	-20.5	1.51 V	25	50.8	2.7
2	5150.00	41.6 AV	54.0	-12.4	1.51 V	25	38.9	2.7
3	*5290.00	107.8 PK			1.51 V	25	106.0	1.8
4	*5290.00	97.3 AV			1.51 V	25	95.5	1.8
5	5350.00	65.9 PK	74.0	-8.1	1.51 V	25	63.7	2.2
6	5350.00	53.4 AV	54.0	-0.6	1.51 V	25	51.2	2.2
7	#10580.00	56.1 PK	68.2	-12.1	1.75 V	220	43.9	12.2
8	15870.00	50.0 PK	74.0	-24.0	1.49 V	155	38.6	11.4
9	15870.00	37.8 AV	54.0	-16.2	1.49 V	155	26.4	11.4

Remarks:

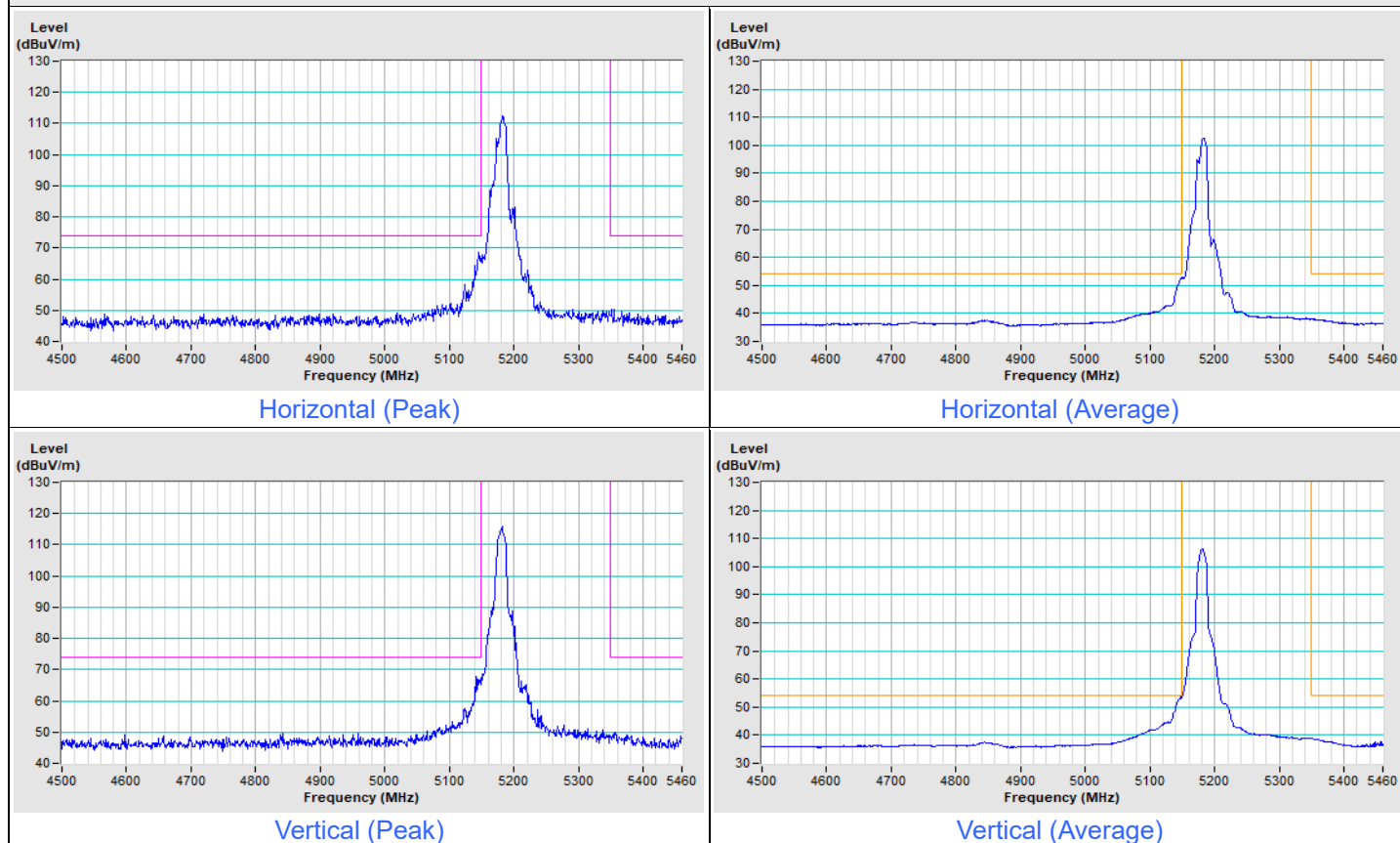
1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.



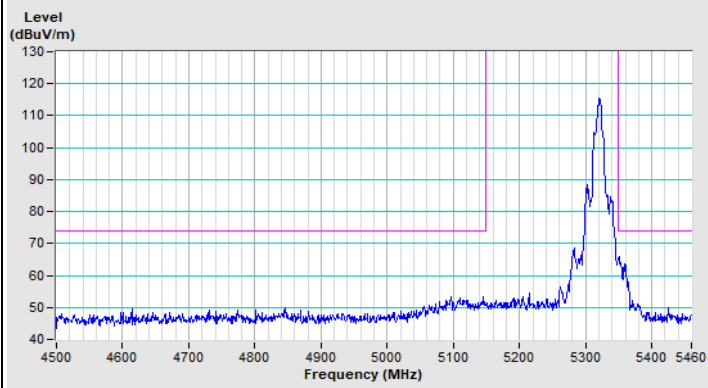
Plot of Band Edge Mode A

Frequency Range	4.5 GHz ~ 5.46 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
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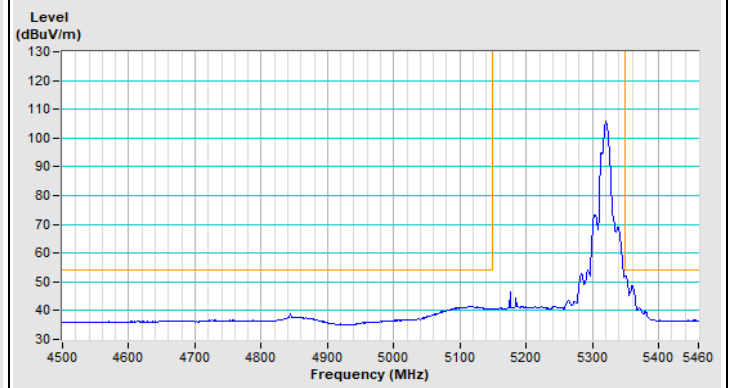
802.11a Channel 36



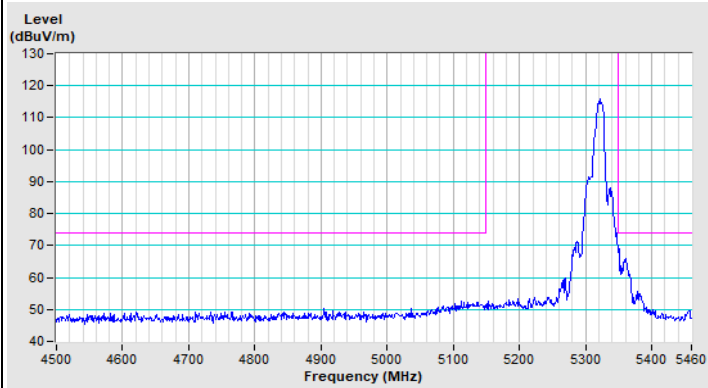
802.11a Channel 64



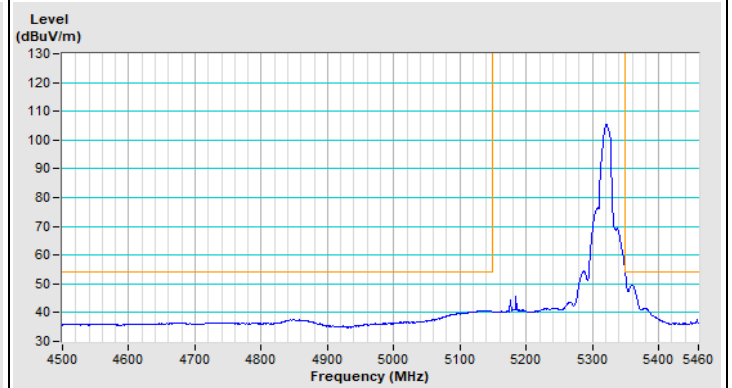
Horizontal (Peak)



Horizontal (Average)



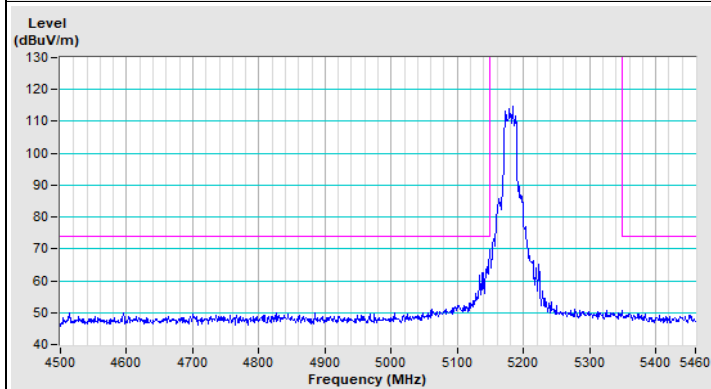
Vertical (Peak)



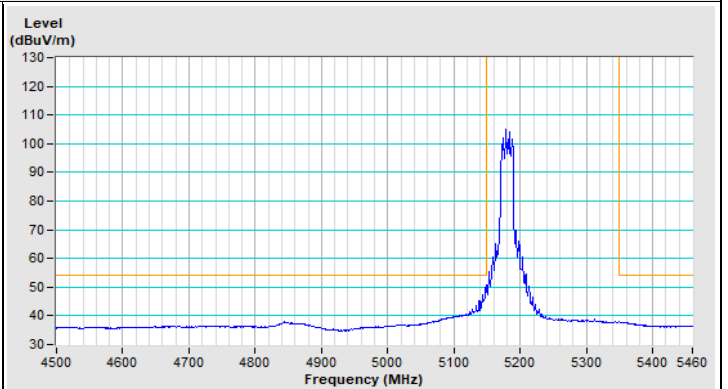
Vertical (Average)

Frequency Range	4.5 GHz ~ 5.46 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
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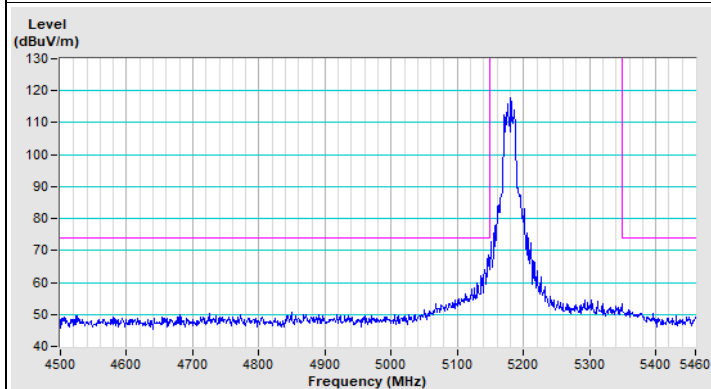
802.11ax (HE20) Channel 36



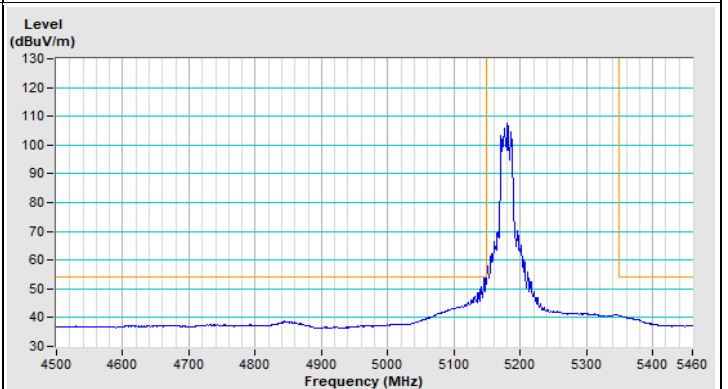
Horizontal (Peak)



Horizontal (Average)

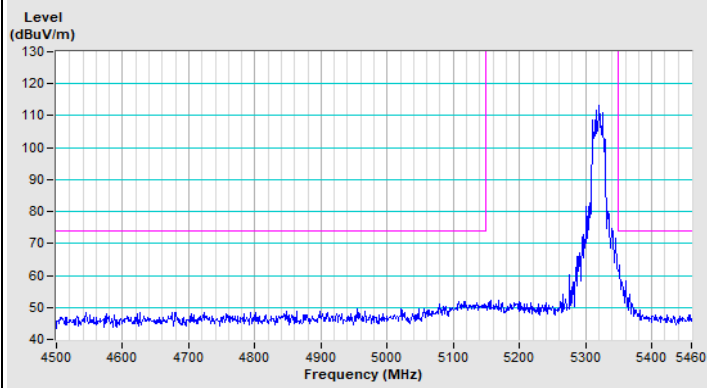


Vertical (Peak)

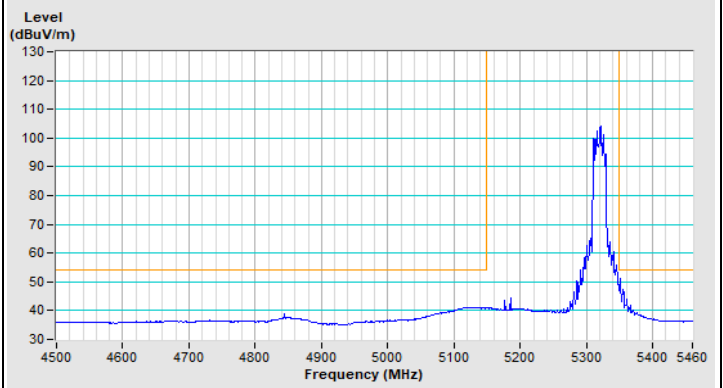


Vertical (Average)

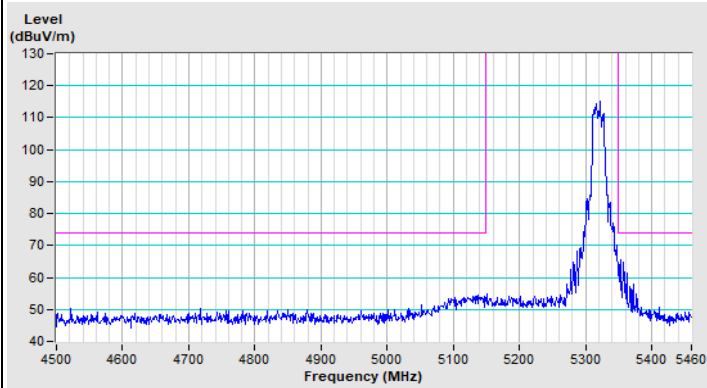
802.11ax (HE20) Channel 64



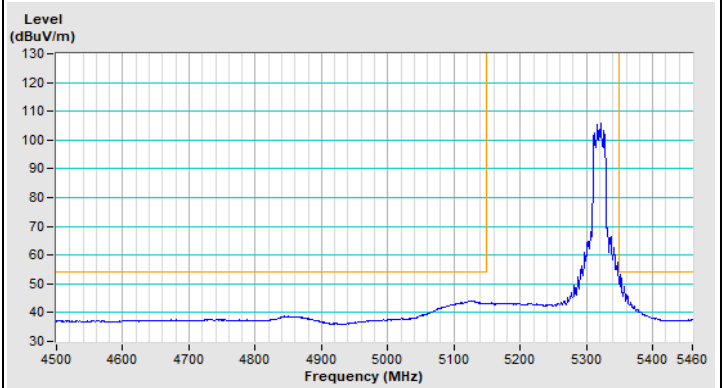
Horizontal (Peak)



Horizontal (Average)



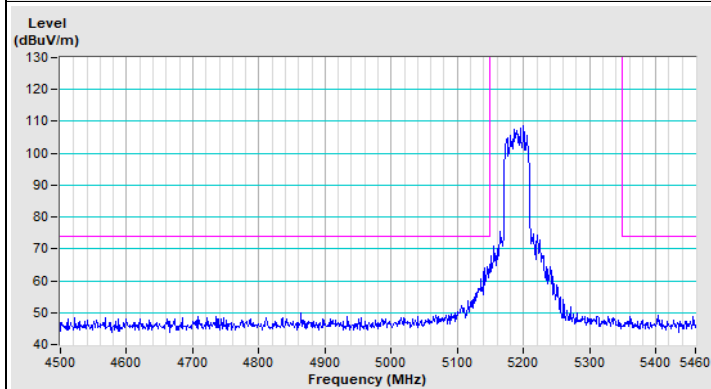
Vertical (Peak)



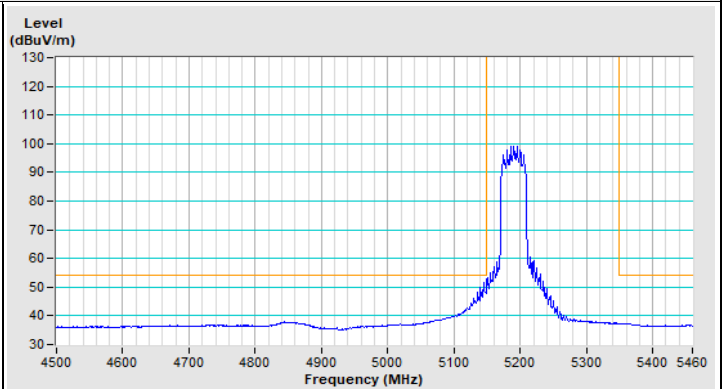
Vertical (Average)

Frequency Range	4.5 GHz ~ 5.46 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
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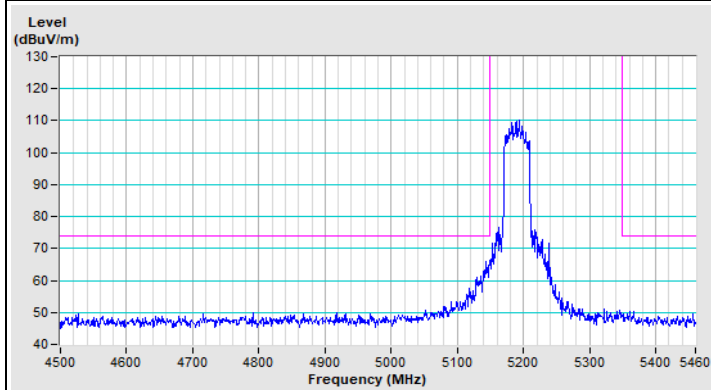
802.11ax (HE40) Channel 38



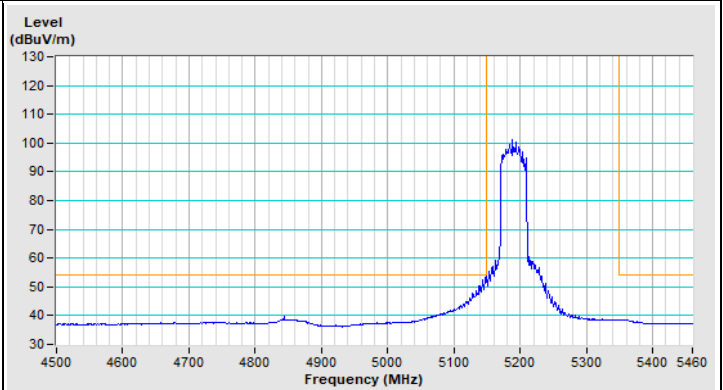
Horizontal (Peak)



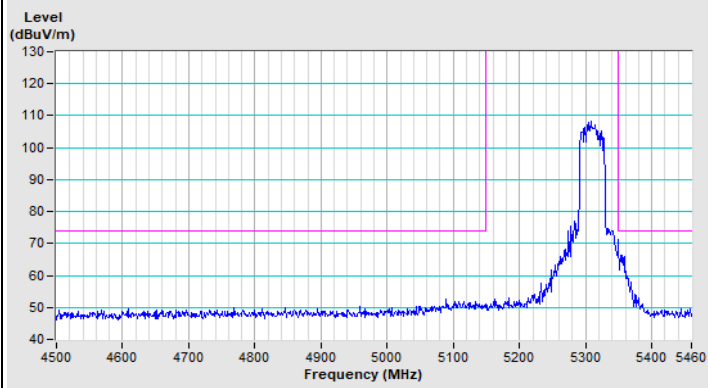
Horizontal (Average)



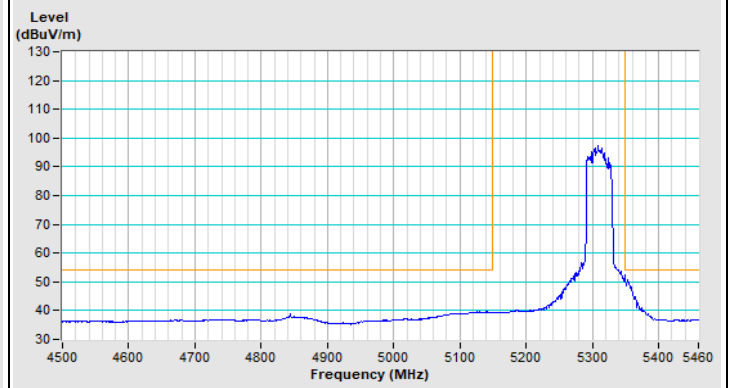
Vertical (Peak)



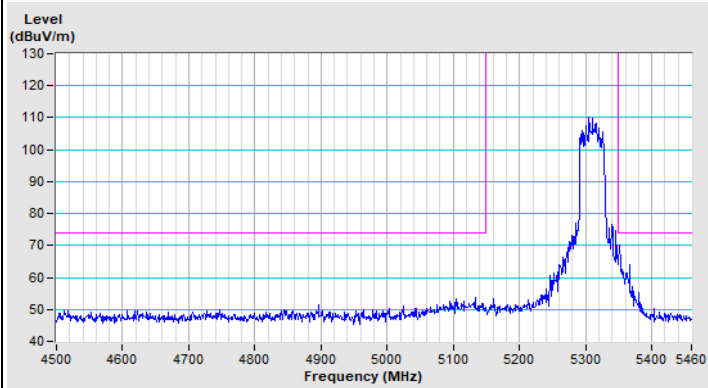
Vertical (Average)

802.11ax (HE40) Channel 62

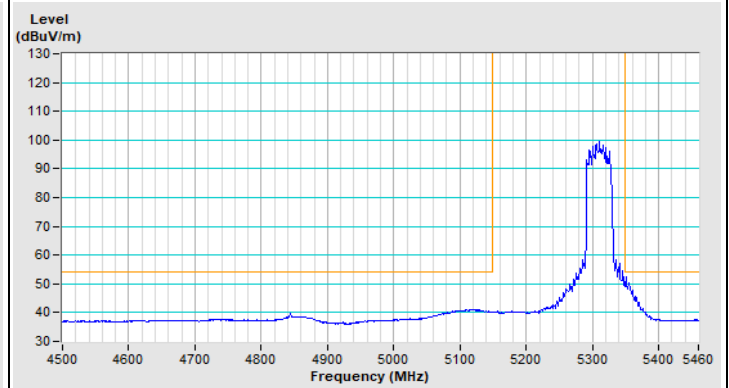
Horizontal (Peak)



Horizontal (Average)



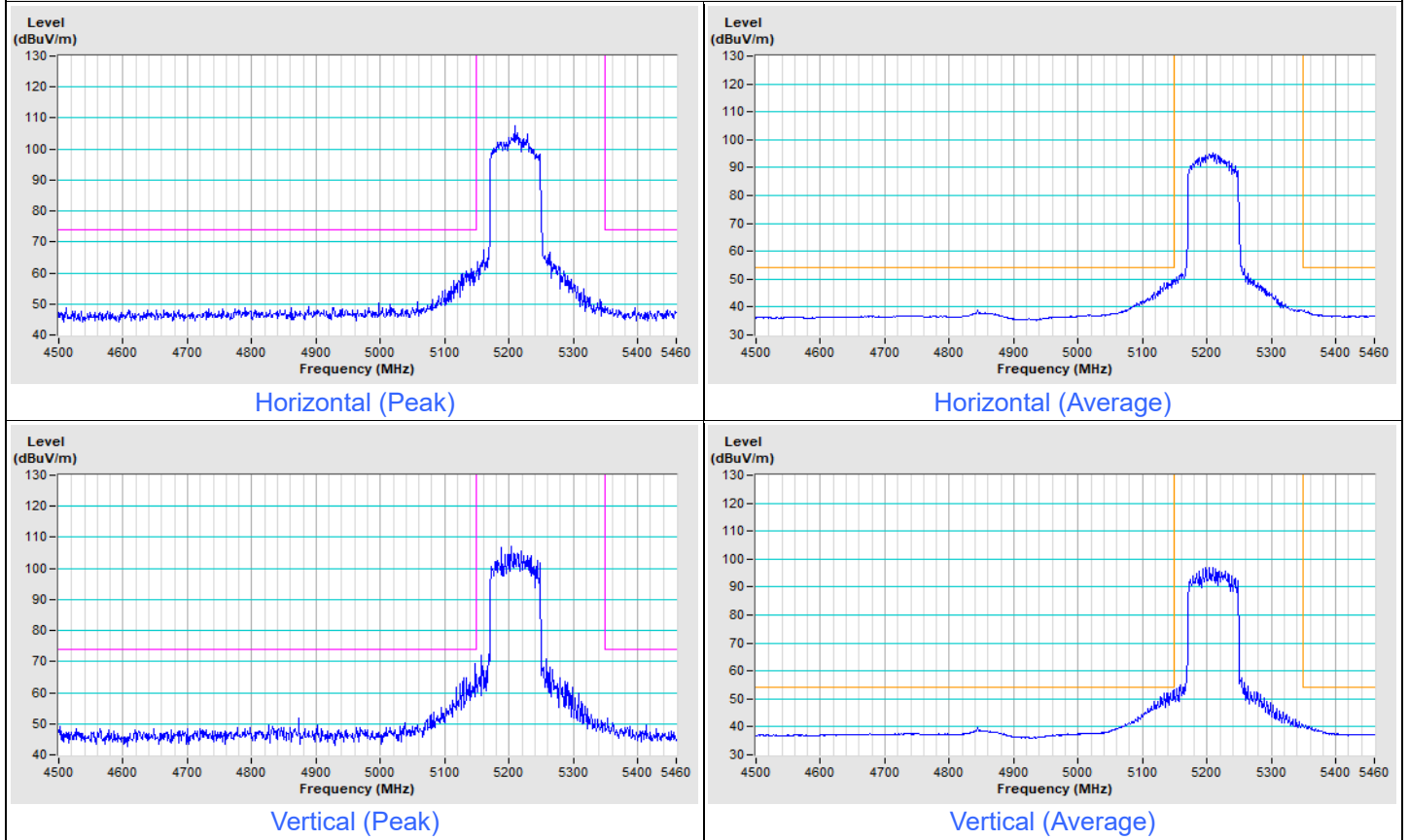
Vertical (Peak)



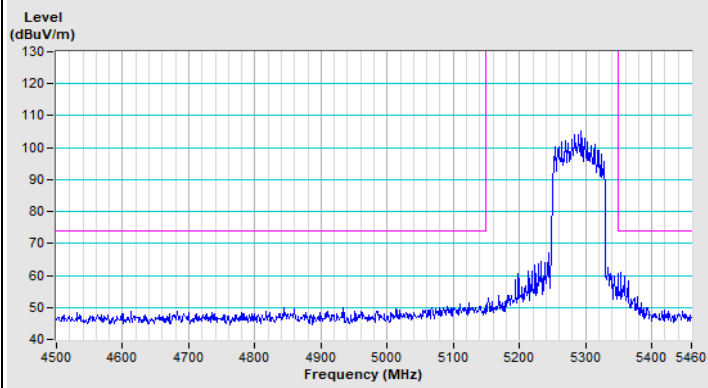
Vertical (Average)

Frequency Range	4.5 GHz ~ 5.46 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
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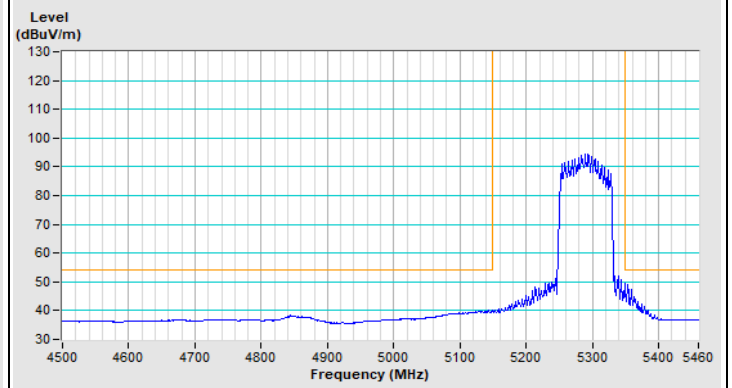
802.11ax (HE80) Channel 42



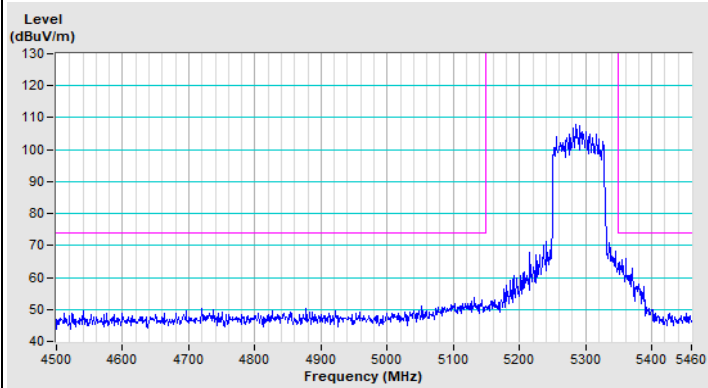
802.11ax (HE80) Channel 58



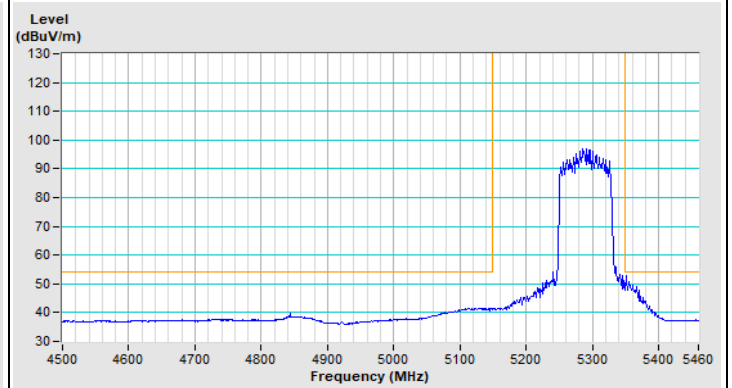
Horizontal (Peak)



Horizontal (Average)



Vertical (Peak)



Vertical (Average)

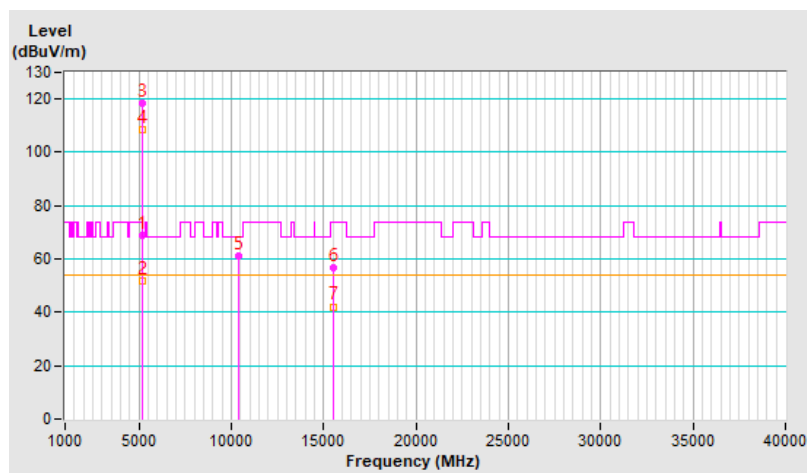
Mode B

RF Mode	802.11a	Channel	CH 36 : 5180 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	22 °C, 65 % RH
Tested By	Willy Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	68.6 PK	74.0	-5.4	1.75 H	312	65.9	2.7
2	5150.00	51.6 AV	54.0	-2.4	1.75 H	312	48.9	2.7
3	*5180.00	118.5 PK			1.75 H	312	116.1	2.4
4	*5180.00	108.4 AV			1.75 H	312	106.0	2.4
5	#10360.00	61.0 PK	68.2	-7.2	1.47 H	260	48.8	12.2
6	15540.00	56.7 PK	74.0	-17.3	1.49 H	326	44.5	12.2
7	15540.00	42.1 AV	54.0	-11.9	1.49 H	326	29.9	12.2

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

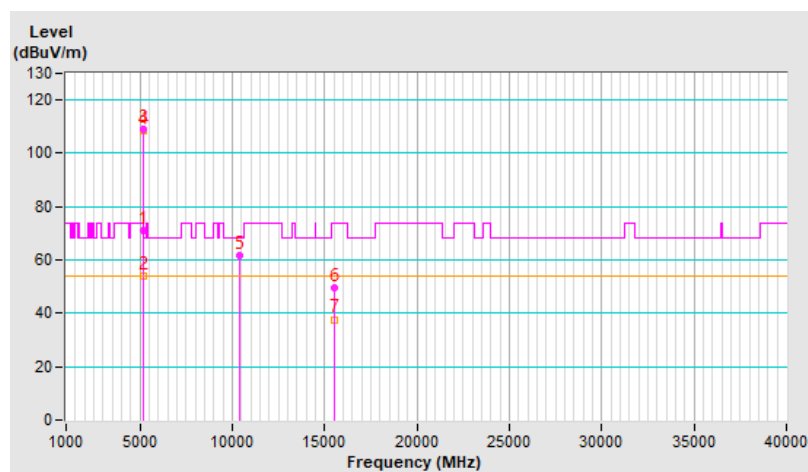


RF Mode	802.11a	Channel	CH 36 : 5180 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	22 °C, 65 % RH
Tested By	Willy Lin		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	70.9 PK	74.0	-3.1	1.50 V	81	68.2	2.7
2	5150.00	53.8 AV	54.0	-0.2	1.50 V	81	51.1	2.7
3	*5180.00	108.9 PK			1.50 V	81	106.5	2.4
4	*5180.00	108.6 AV			1.50 V	81	106.2	2.4
5	#10360.00	61.5 PK	68.2	-6.7	1.73 V	237	49.3	12.2
6	15540.00	49.6 PK	74.0	-24.4	1.55 V	133	37.4	12.2
7	15540.00	37.7 AV	54.0	-16.3	1.55 V	133	25.5	12.2

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

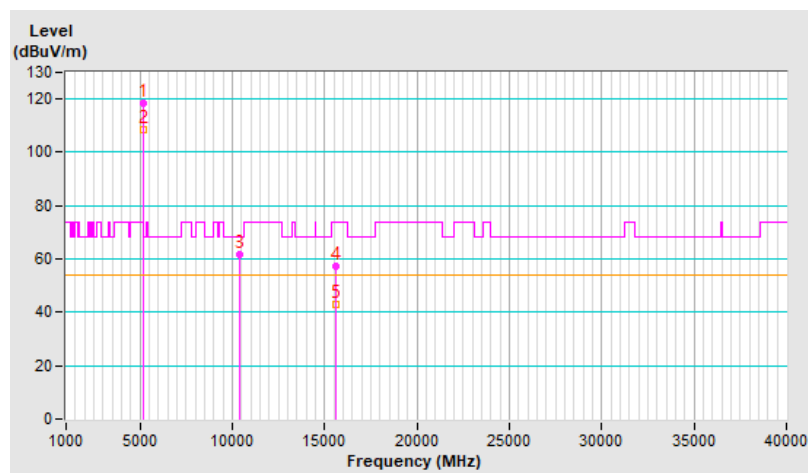


RF Mode	802.11a	Channel	CH 40 : 5200 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	22 °C, 65 % RH
Tested By	Willy Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5200.00	118.5 PK			1.74 H	333	116.3	2.2
2	*5200.00	108.4 AV			1.74 H	333	106.2	2.2
3	#10400.00	61.6 PK	68.2	-6.6	1.45 H	255	49.1	12.5
4	15600.00	57.1 PK	74.0	-16.9	1.40 H	316	44.9	12.2
5	15600.00	42.9 AV	54.0	-11.1	1.40 H	316	30.7	12.2

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

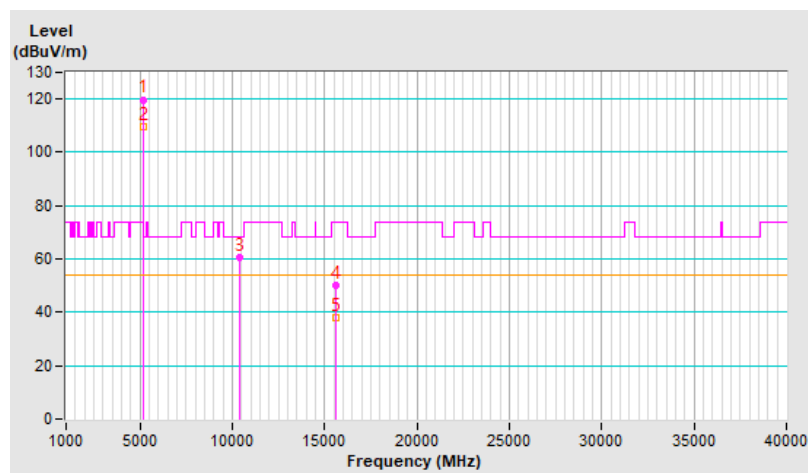


RF Mode	802.11a	Channel	CH 40 : 5200 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	22 °C, 65 % RH
Tested By	Willy Lin		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5200.00	119.8 PK			1.59 V	112	117.6	2.2
2	*5200.00	109.8 AV			1.59 V	112	107.6	2.2
3	#10400.00	60.7 PK	68.2	-7.5	1.77 V	247	48.2	12.5
4	15600.00	50.0 PK	74.0	-24.0	1.52 V	153	37.8	12.2
5	15600.00	38.0 AV	54.0	-16.0	1.52 V	153	25.8	12.2

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

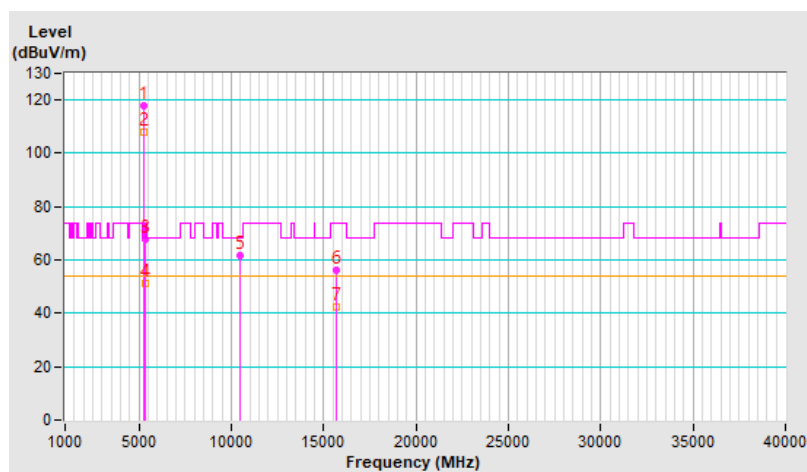


RF Mode	802.11a	Channel	CH 48 : 5240 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	22 °C, 65 % RH
Tested By	Willy Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5240.00	118.0 PK			1.71 H	328	116.0	2.0
2	*5240.00	108.0 AV			1.71 H	328	106.0	2.0
3	5350.00	67.5 PK	74.0	-6.5	1.71 H	328	65.3	2.2
4	5350.00	51.2 AV	54.0	-2.8	1.71 H	328	49.0	2.2
5	#10480.00	61.5 PK	68.2	-6.7	1.40 H	266	49.3	12.2
6	15720.00	56.4 PK	74.0	-17.6	1.43 H	308	44.7	11.7
7	15720.00	42.2 AV	54.0	-11.8	1.43 H	308	30.5	11.7

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

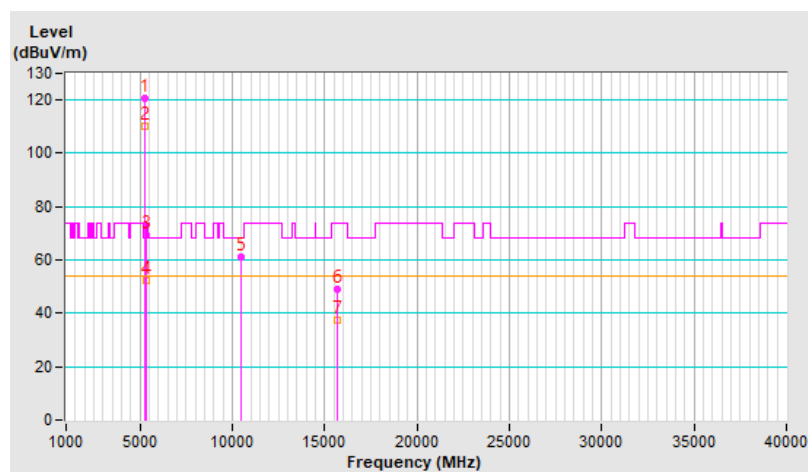


RF Mode	802.11a	Channel	CH 48 : 5240 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	22 °C, 65 % RH
Tested By	Willy Lin		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5240.00	120.4 PK			1.51 V	81	118.4	2.0
2	*5240.00	110.4 AV			1.51 V	81	108.4	2.0
3	5350.00	69.3 PK	74.0	-4.7	1.51 V	81	67.1	2.2
4	5350.00	52.1 AV	54.0	-1.9	1.51 V	81	49.9	2.2
5	#10480.00	60.9 PK	68.2	-7.3	1.73 V	254	48.7	12.2
6	15720.00	48.9 PK	74.0	-25.1	1.53 V	154	37.2	11.7
7	15720.00	37.2 AV	54.0	-16.8	1.53 V	154	25.5	11.7

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.

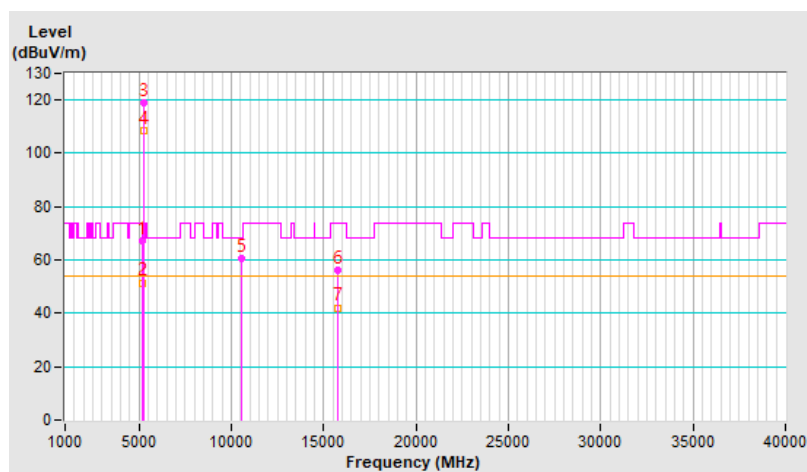


RF Mode	802.11a	Channel	CH 52 : 5260 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	22 °C, 65 % RH
Tested By	Willy Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	67.1 PK	74.0	-6.9	1.69 H	319	64.4	2.7
2	5150.00	51.5 AV	54.0	-2.5	1.69 H	319	48.8	2.7
3	*5260.00	118.9 PK			1.69 H	319	117.0	1.9
4	*5260.00	108.6 AV			1.69 H	319	106.7	1.9
5	#10520.00	60.4 PK	68.2	-7.8	1.41 H	264	48.3	12.1
6	15780.00	56.2 PK	74.0	-17.8	1.44 H	315	44.6	11.6
7	15780.00	42.1 AV	54.0	-11.9	1.44 H	315	30.5	11.6

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

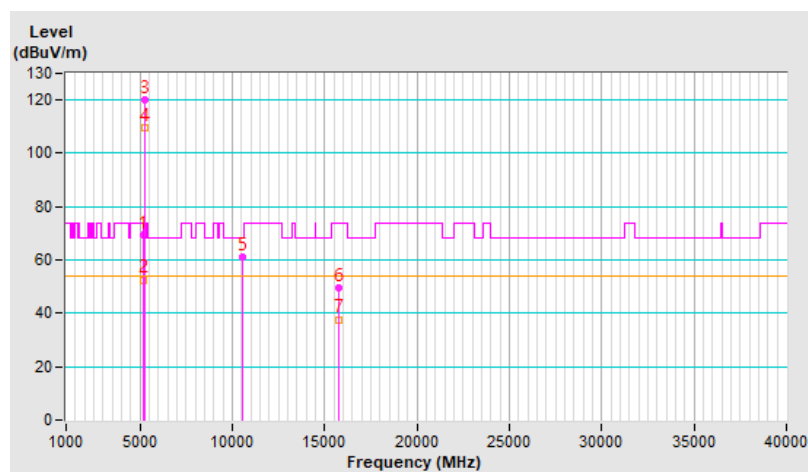


RF Mode	802.11a	Channel	CH 52 : 5260 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	22 °C, 65 % RH
Tested By	Willy Lin		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	69.5 PK	74.0	-4.5	1.49 V	98	66.8	2.7
2	5150.00	52.6 AV	54.0	-1.4	1.49 V	98	49.9	2.7
3	*5260.00	120.1 PK			1.49 V	98	118.2	1.9
4	*5260.00	109.7 AV			1.49 V	98	107.8	1.9
5	#10520.00	61.0 PK	68.2	-7.2	1.75 V	252	48.9	12.1
6	15780.00	49.5 PK	74.0	-24.5	1.49 V	136	37.9	11.6
7	15780.00	37.7 AV	54.0	-16.3	1.49 V	136	26.1	11.6

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

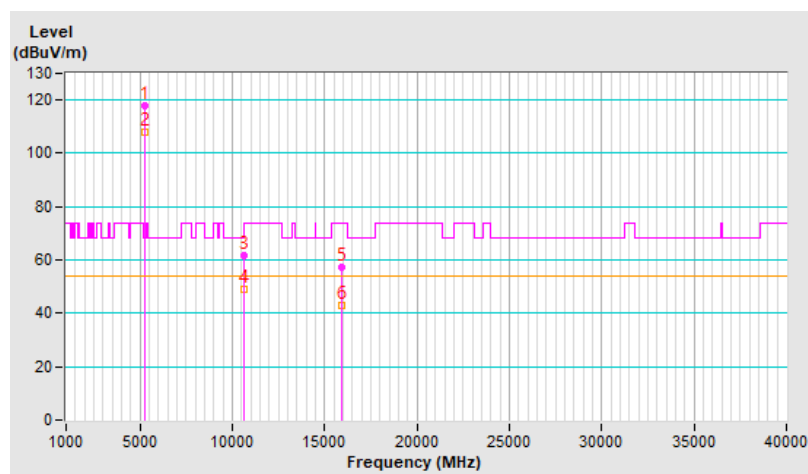


RF Mode	802.11a	Channel	CH 60 : 5300 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	22 °C, 65 % RH
Tested By	Willy Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5300.00	117.9 PK			1.76 H	331	116.1	1.8
2	*5300.00	108.0 AV			1.76 H	331	106.2	1.8
3	10600.00	61.5 PK	74.0	-12.5	1.45 H	267	49.2	12.3
4	10600.00	49.2 AV	54.0	-4.8	1.45 H	267	36.9	12.3
5	15900.00	57.3 PK	74.0	-16.7	1.47 H	315	46.1	11.2
6	15900.00	42.9 AV	54.0	-11.1	1.47 H	315	31.7	11.2

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.

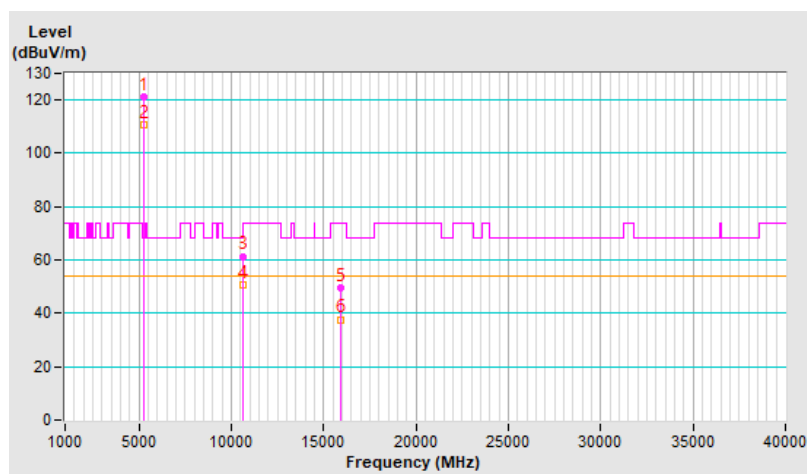


RF Mode	802.11a	Channel	CH 60 : 5300 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	22 °C, 65 % RH
Tested By	Willy Lin		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5300.00	121.0 PK			1.55 V	95	119.2	1.8
2	*5300.00	110.6 AV			1.55 V	95	108.8	1.8
3	10600.00	61.4 PK	74.0	-12.6	1.71 V	247	49.1	12.3
4	10600.00	50.8 AV	54.0	-3.2	1.71 V	247	38.5	12.3
5	15900.00	49.5 PK	74.0	-24.5	1.54 V	142	38.3	11.2
6	15900.00	37.7 AV	54.0	-16.3	1.54 V	142	26.5	11.2

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.

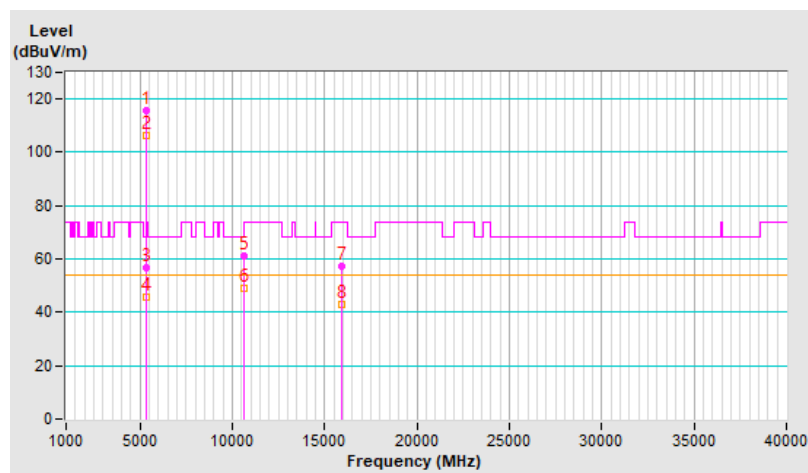


RF Mode	802.11a	Channel	CH 64 : 5320 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	22 °C, 65 % RH
Tested By	Willy Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5320.00	115.6 PK			2.19 H	213	113.6	2.0
2	*5320.00	106.5 AV			2.19 H	213	104.5	2.0
3	5350.00	56.6 PK	74.0	-17.4	2.19 H	213	54.4	2.2
4	5350.00	45.6 AV	54.0	-8.4	2.19 H	213	43.4	2.2
5	10640.00	61.2 PK	74.0	-12.8	1.52 H	263	48.9	12.3
6	10640.00	48.8 AV	54.0	-5.2	1.52 H	263	36.5	12.3
7	15960.00	57.4 PK	74.0	-16.6	1.42 H	330	45.9	11.5
8	15960.00	42.9 AV	54.0	-11.1	1.42 H	330	31.4	11.5

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.

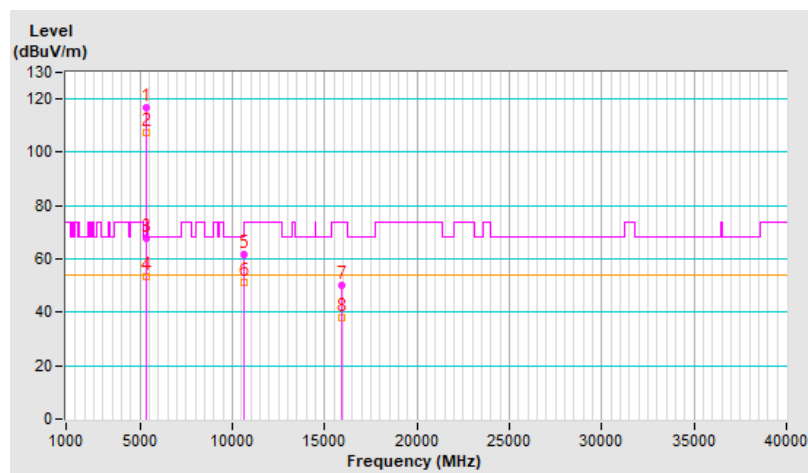


RF Mode	802.11a	Channel	CH 64 : 5320 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	22 °C, 65 % RH
Tested By	Willy Lin		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5320.00	116.9 PK			1.37 V	27	114.9	2.0
2	*5320.00	107.3 AV			1.37 V	27	105.3	2.0
3	5350.00	67.5 PK	74.0	-6.5	1.37 V	27	65.3	2.2
4	5350.00	53.6 AV	54.0	-0.4	1.37 V	27	51.4	2.2
5	10640.00	61.8 PK	74.0	-12.2	1.70 V	228	49.5	12.3
6	10640.00	51.1 AV	54.0	-2.9	1.70 V	228	38.8	12.3
7	15960.00	49.9 PK	74.0	-24.1	1.48 V	156	38.4	11.5
8	15960.00	37.8 AV	54.0	-16.2	1.48 V	156	26.3	11.5

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.

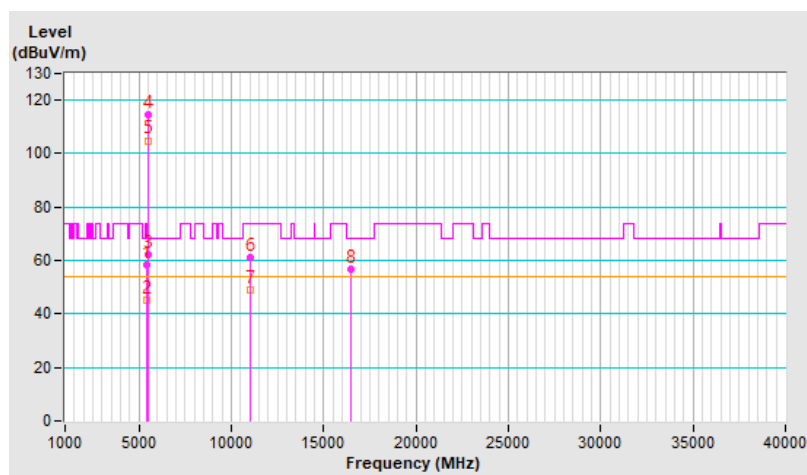


RF Mode	802.11a	Channel	CH 100 : 5500 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	22 °C, 65 % RH
Tested By	Willy Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	58.3 PK	74.0	-15.7	1.00 H	339	56.0	2.3
2	5460.00	45.2 AV	54.0	-8.8	1.00 H	339	42.9	2.3
3	#5470.00	62.0 PK	68.2	-6.2	1.00 H	339	59.7	2.3
4	*5500.00	114.5 PK			1.00 H	339	112.3	2.2
5	*5500.00	104.9 AV			1.00 H	339	102.7	2.2
6	11000.00	60.9 PK	74.0	-13.1	1.46 H	258	47.9	13.0
7	11000.00	48.8 AV	54.0	-5.2	1.46 H	258	35.8	13.0
8	#16500.00	56.8 PK	68.2	-11.4	1.50 H	310	42.9	13.9

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

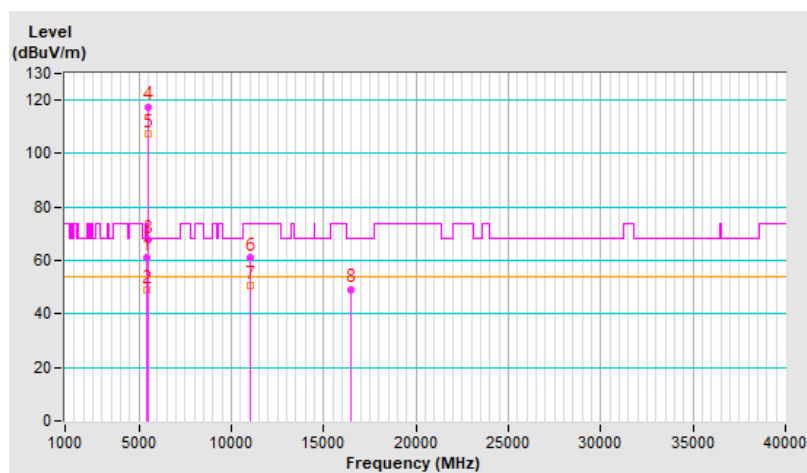


RF Mode	802.11a	Channel	CH 100 : 5500 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	22 °C, 65 % RH
Tested By	Willy Lin		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	61.3 PK	74.0	-12.7	1.34 V	22	59.0	2.3
2	5460.00	49.0 AV	54.0	-5.0	1.34 V	22	46.7	2.3
3	#5470.00	67.8 PK	68.2	-0.4	1.34 V	22	65.5	2.3
4	*5500.00	117.6 PK			1.34 V	22	115.4	2.2
5	*5500.00	107.5 AV			1.34 V	22	105.3	2.2
6	11000.00	61.1 PK	74.0	-12.9	1.77 V	244	48.1	13.0
7	11000.00	50.5 AV	54.0	-3.5	1.77 V	244	37.5	13.0
8	#16500.00	49.3 PK	68.2	-18.9	1.47 V	161	35.4	13.9

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

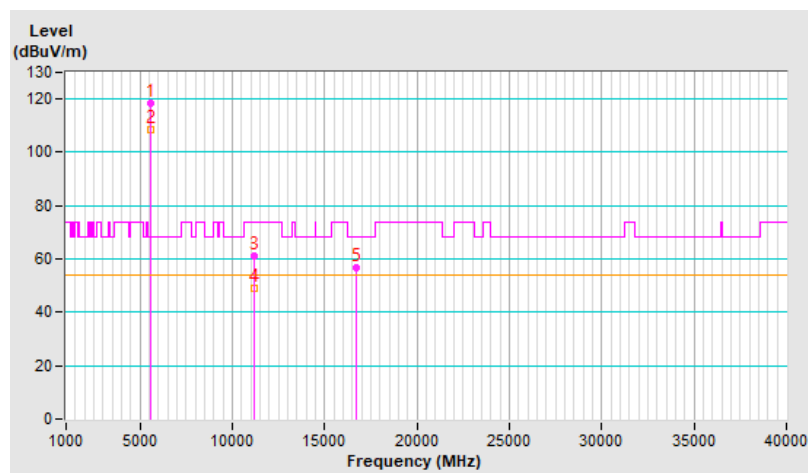


RF Mode	802.11a	Channel	CH 116 : 5580 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	22 °C, 65 % RH
Tested By	Willy Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5580.00	118.3 PK			1.76 H	347	116.1	2.2
2	*5580.00	108.4 AV			1.76 H	347	106.2	2.2
3	11160.00	61.0 PK	74.0	-13.0	1.42 H	280	48.0	13.0
4	11160.00	48.8 AV	54.0	-5.2	1.42 H	280	35.8	13.0
5	#16740.00	56.8 PK	68.2	-11.4	1.47 H	327	40.4	16.4

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

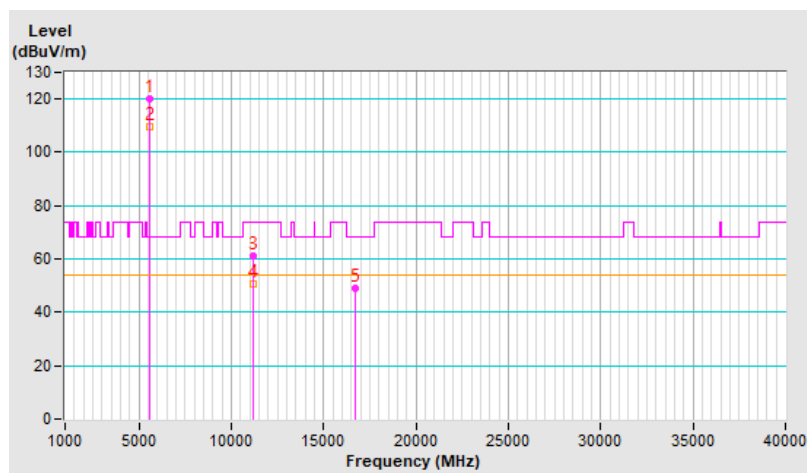


RF Mode	802.11a	Channel	CH 116 : 5580 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	22 °C, 65 % RH
Tested By	Willy Lin		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5580.00	120.3 PK			1.46 V	70	118.1	2.2
2	*5580.00	109.7 AV			1.46 V	70	107.5	2.2
3	11160.00	61.3 PK	74.0	-12.7	1.72 V	256	48.3	13.0
4	11160.00	50.5 AV	54.0	-3.5	1.72 V	256	37.5	13.0
5	#16740.00	48.9 PK	68.2	-19.3	1.46 V	134	32.5	16.4

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

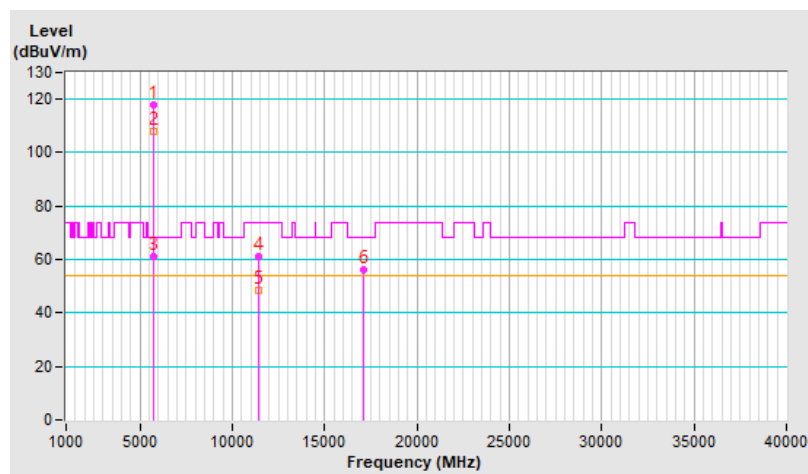


RF Mode	802.11a	Channel	CH 140 : 5700 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	22 °C, 65 % RH
Tested By	Willy Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5700.00	118.1 PK			1.71 H	340	115.7	2.4
2	*5700.00	108.0 AV			1.71 H	340	105.6	2.4
3	#5725.00	61.3 PK	68.2	-6.9	1.71 H	340	58.9	2.4
4	11400.00	61.1 PK	74.0	-12.9	1.48 H	261	48.0	13.1
5	11400.00	48.7 AV	54.0	-5.3	1.48 H	261	35.6	13.1
6	#17100.00	56.4 PK	68.2	-11.8	1.43 H	319	39.1	17.3

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.

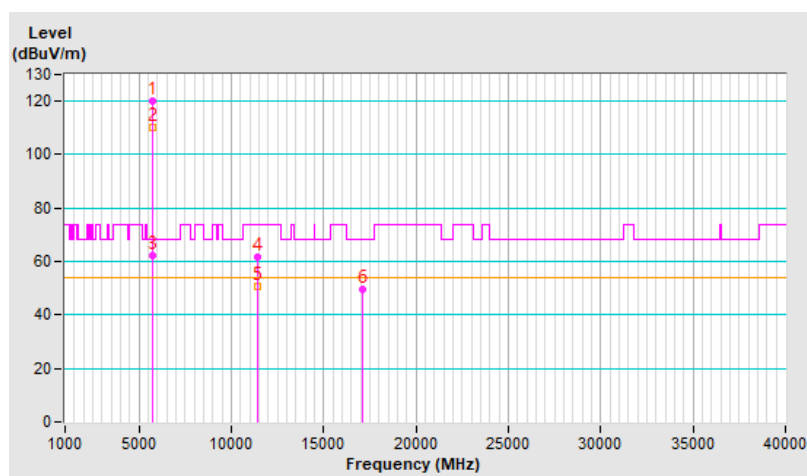


RF Mode	802.11a	Channel	CH 140 : 5700 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	22 °C, 65 % RH
Tested By	Willy Lin		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5700.00	120.3 PK			1.46 V	80	117.9	2.4
2	*5700.00	110.0 AV			1.46 V	80	107.6	2.4
3	#5725.00	62.3 PK	68.2	-5.9	1.46 V	80	59.9	2.4
4	11400.00	61.7 PK	74.0	-12.3	1.68 V	249	48.6	13.1
5	11400.00	50.6 AV	54.0	-3.4	1.68 V	249	37.5	13.1
6	#17100.00	49.5 PK	68.2	-18.7	1.51 V	141	32.2	17.3

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

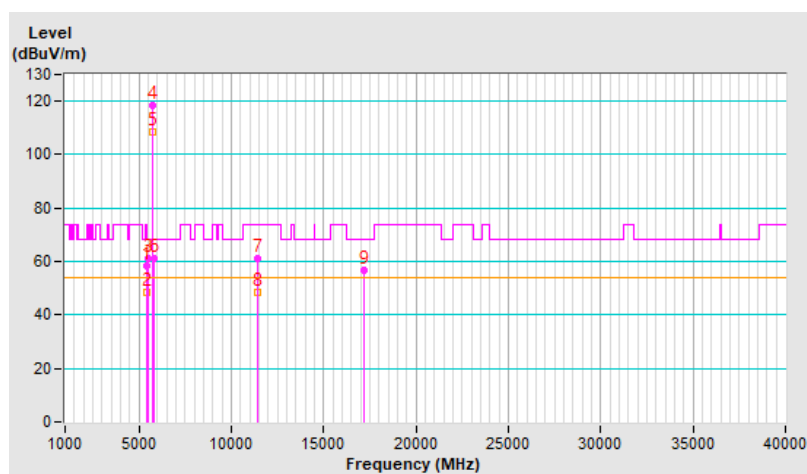


RF Mode	802.11a	Channel	CH 144 : 5720 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	22 °C, 65 % RH
Tested By	Willy Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	58.6 PK	74.0	-15.4	1.79 H	326	56.3	2.3
2	5460.00	48.2 AV	54.0	-5.8	1.79 H	326	45.9	2.3
3	#5470.00	61.2 PK	68.2	-7.0	1.79 H	326	58.9	2.3
4	*5720.00	118.5 PK			1.79 H	326	116.1	2.4
5	*5720.00	108.4 AV			1.79 H	326	106.0	2.4
6	#5850.00	61.0 PK	68.2	-7.2	1.79 H	326	58.1	2.9
7	11440.00	61.1 PK	74.0	-12.9	1.52 H	261	48.1	13.0
8	11440.00	48.5 AV	54.0	-5.5	1.52 H	261	35.5	13.0
9	#17160.00	56.9 PK	68.2	-11.3	1.43 H	305	39.5	17.4

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

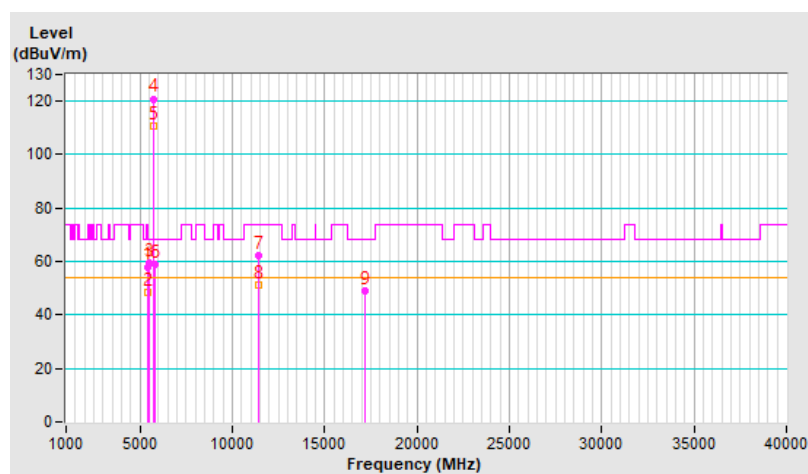


RF Mode	802.11a	Channel	CH 144 : 5720 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	22 °C, 65 % RH
Tested By	Willy Lin		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	58.1 PK	74.0	-15.9	1.54 V	68	55.8	2.3
2	5460.00	48.3 AV	54.0	-5.7	1.54 V	68	46.0	2.3
3	#5470.00	59.3 PK	68.2	-8.9	1.54 V	68	57.0	2.3
4	*5720.00	120.9 PK			1.54 V	68	118.5	2.4
5	*5720.00	110.7 AV			1.54 V	68	108.3	2.4
6	#5850.00	59.1 PK	68.2	-9.1	1.54 V	68	56.2	2.9
7	11440.00	62.1 PK	74.0	-11.9	1.76 V	254	49.1	13.0
8	11440.00	51.0 AV	54.0	-3.0	1.76 V	254	38.0	13.0
9	#17160.00	49.2 PK	68.2	-19.0	1.48 V	157	31.8	17.4

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

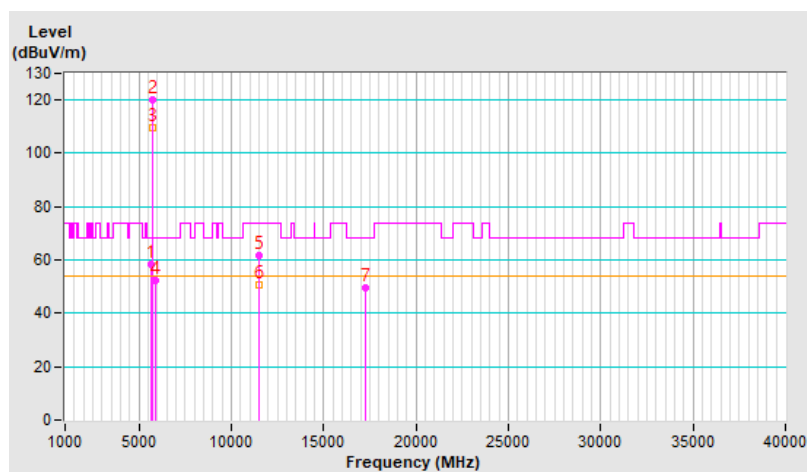


RF Mode	802.11a	Channel	CH 149 : 5745 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	22 °C, 65 % RH
Tested By	Willy Lin		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5650.00	58.2 PK	68.2	-10.0	1.37 V	20	56.1	2.1
2	*5745.00	120.0 PK			1.37 V	20	117.5	2.5
3	*5745.00	109.8 AV			1.37 V	20	107.3	2.5
4	#5925.00	52.3 PK	68.2	-15.9	1.37 V	20	49.6	2.7
5	11490.00	61.7 PK	74.0	-12.3	1.69 V	231	48.6	13.1
6	11490.00	50.7 AV	54.0	-3.3	1.69 V	231	37.6	13.1
7	#17235.00	49.7 PK	68.2	-18.5	1.50 V	153	32.1	17.6

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

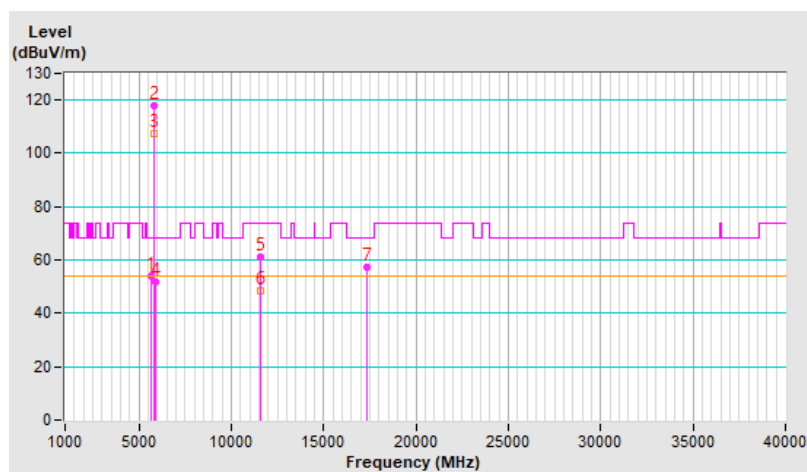


RF Mode	802.11a	Channel	CH 157 : 5785 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	22 °C, 65 % RH
Tested By	Willy Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5650.00	53.9 PK	68.2	-14.3	2.20 H	321	51.8	2.1
2	*5785.00	117.9 PK			2.20 H	321	115.1	2.8
3	*5785.00	107.2 AV			2.20 H	321	104.4	2.8
4	#5925.00	51.6 PK	68.2	-16.6	2.20 H	321	48.9	2.7
5	11570.00	61.0 PK	74.0	-13.0	1.50 H	276	48.0	13.0
6	11570.00	48.7 AV	54.0	-5.3	1.50 H	276	35.7	13.0
7	#17355.00	57.1 PK	68.2	-11.1	1.45 H	315	39.2	17.9

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.

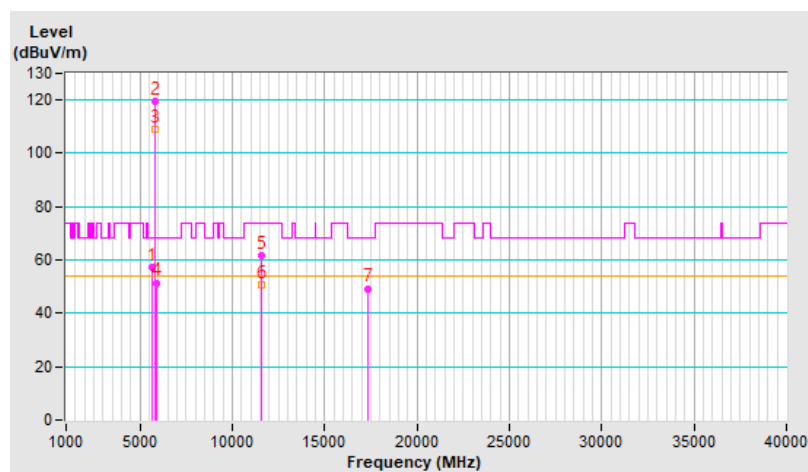


RF Mode	802.11a	Channel	CH 157 : 5785 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	22 °C, 65 % RH
Tested By	Willy Lin		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5650.00	57.3 PK	68.2	-10.9	1.35 V	26	55.2	2.1
2	*5785.00	119.6 PK			1.35 V	26	116.8	2.8
3	*5785.00	109.2 AV			1.35 V	26	106.4	2.8
4	#5925.00	51.5 PK	68.2	-16.7	1.35 V	26	48.8	2.7
5	11570.00	61.6 PK	74.0	-12.4	1.72 V	233	48.6	13.0
6	11570.00	50.7 AV	54.0	-3.3	1.72 V	233	37.7	13.0
7	#17355.00	49.3 PK	68.2	-18.9	1.55 V	157	31.4	17.9

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

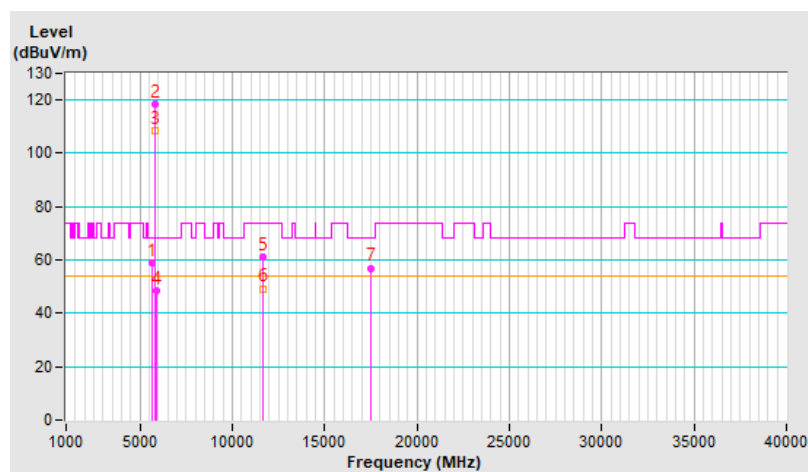


RF Mode	802.11a	Channel	CH 165 : 5825 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	22 °C, 65 % RH
Tested By	Willy Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5650.00	58.8 PK	68.2	-9.4	2.23 H	316	56.7	2.1
2	*5825.00	118.5 PK			2.23 H	316	115.6	2.9
3	*5825.00	108.3 AV			2.23 H	316	105.4	2.9
4	#5925.00	48.6 PK	68.2	-19.6	2.23 H	316	45.9	2.7
5	11650.00	61.3 PK	74.0	-12.7	1.50 H	286	48.5	12.8
6	11650.00	49.3 AV	54.0	-4.7	1.50 H	286	36.5	12.8
7	#17475.00	57.0 PK	68.2	-11.2	1.45 H	306	38.5	18.5

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

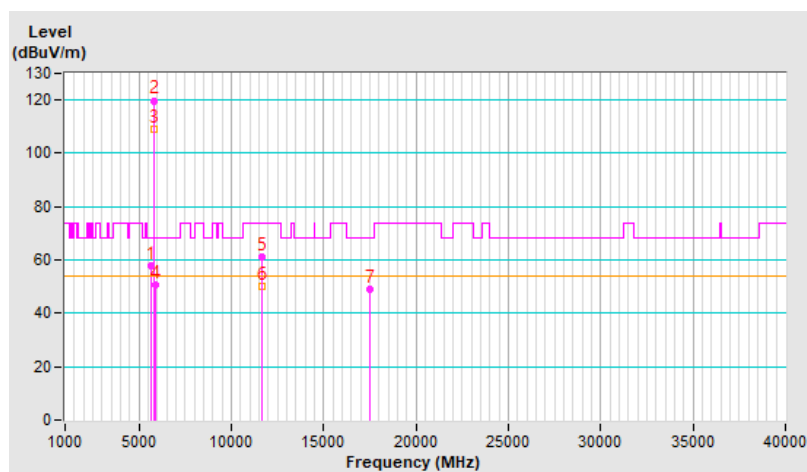


RF Mode	802.11a	Channel	CH 165 : 5825 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	22 °C, 65 % RH
Tested By	Willy Lin		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5650.00	57.8 PK	68.2	-10.4	1.35 V	21	55.7	2.1
2	*5825.00	119.8 PK			1.35 V	21	116.9	2.9
3	*5825.00	109.2 AV			1.35 V	21	106.3	2.9
4	#5925.00	50.8 PK	68.2	-17.4	1.35 V	21	48.1	2.7
5	11650.00	61.3 PK	74.0	-12.7	1.73 V	242	48.5	12.8
6	11650.00	50.1 AV	54.0	-3.9	1.73 V	242	37.3	12.8
7	#17475.00	49.1 PK	68.2	-19.1	1.53 V	137	30.6	18.5

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

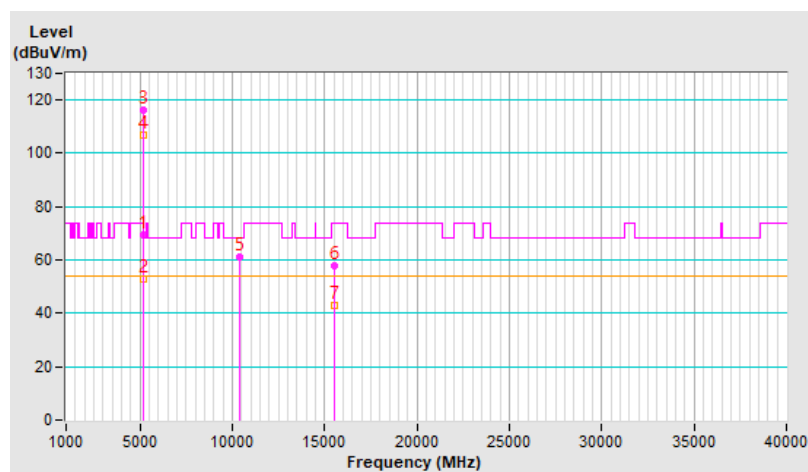


RF Mode	802.11ax (HE20)	Channel	CH 36 : 5180 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	22 °C, 65 % RH
Tested By	Willy Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	69.4 PK	74.0	-4.6	2.58 H	312	66.7	2.7
2	5150.00	53.1 AV	54.0	-0.9	2.58 H	312	50.4	2.7
3	*5180.00	116.3 PK			2.58 H	312	113.9	2.4
4	*5180.00	106.7 AV			2.58 H	312	104.3	2.4
5	#10360.00	61.2 PK	68.2	-7.0	1.42 H	259	49.0	12.2
6	15540.00	57.6 PK	74.0	-16.4	1.45 H	325	45.4	12.2
7	15540.00	43.0 AV	54.0	-11.0	1.45 H	325	30.8	12.2

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

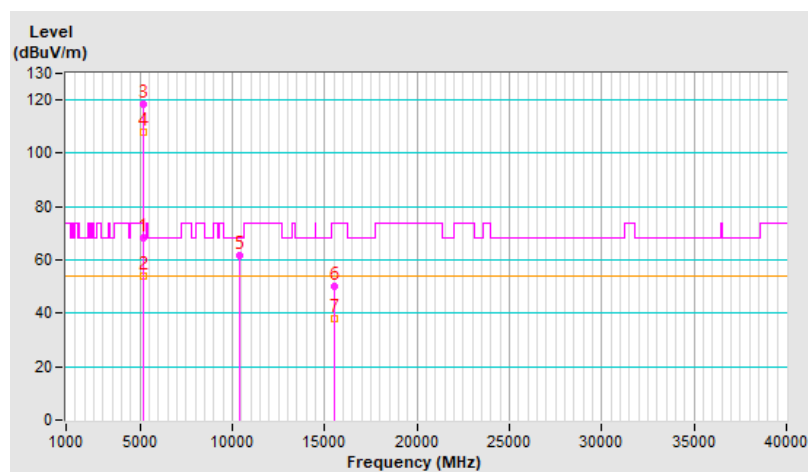


RF Mode	802.11ax (HE20)	Channel	CH 36 : 5180 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	22 °C, 65 % RH
Tested By	Willy Lin		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	68.3 PK	74.0	-5.7	1.55 V	20	65.6	2.7
2	5150.00	53.9 AV	54.0	-0.1	1.55 V	20	51.2	2.7
3	*5180.00	118.5 PK			1.55 V	20	116.1	2.4
4	*5180.00	108.1 AV			1.55 V	20	105.7	2.4
5	#10360.00	61.5 PK	68.2	-6.7	1.67 V	244	49.3	12.2
6	15540.00	49.9 PK	74.0	-24.1	1.46 V	164	37.7	12.2
7	15540.00	37.9 AV	54.0	-16.1	1.46 V	164	25.7	12.2

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

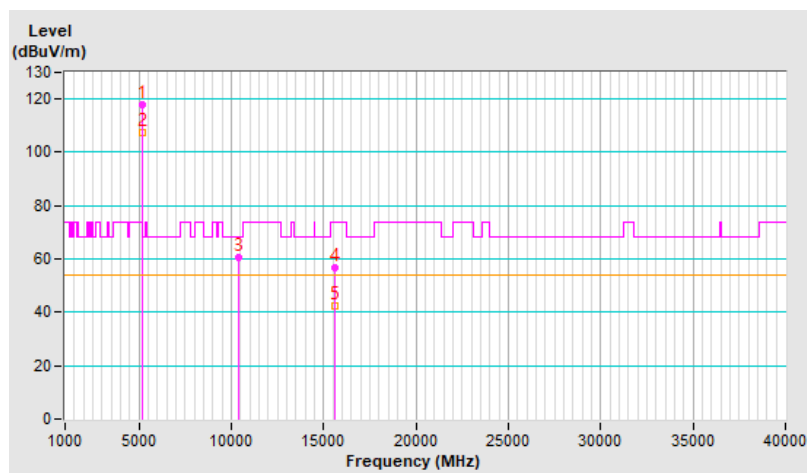


RF Mode	802.11ax (HE20)	Channel	CH 40 : 5200 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	22 °C, 65 % RH
Tested By	Willy Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5200.00	117.9 PK			2.63 H	315	115.7	2.2
2	*5200.00	107.6 AV			2.63 H	315	105.4	2.2
3	#10400.00	60.7 PK	68.2	-7.5	1.40 H	270	48.2	12.5
4	15600.00	56.9 PK	74.0	-17.1	1.44 H	316	44.7	12.2
5	15600.00	42.5 AV	54.0	-11.5	1.44 H	316	30.3	12.2

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.

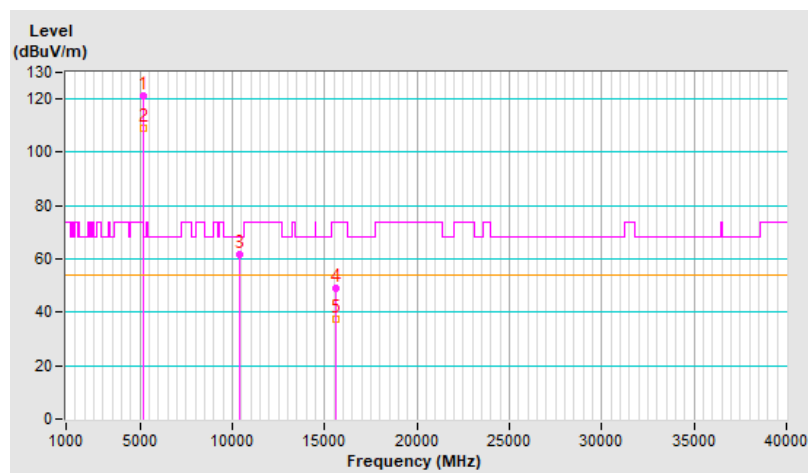


RF Mode	802.11ax (HE20)	Channel	CH 40 : 5200 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	22 °C, 65 % RH
Tested By	Willy Lin		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5200.00	121.3 PK			1.55 V	21	119.1	2.2
2	*5200.00	109.3 AV			1.55 V	21	107.1	2.2
3	#10400.00	61.6 PK	68.2	-6.6	1.77 V	248	49.1	12.5
4	15600.00	49.2 PK	74.0	-24.8	1.53 V	142	37.0	12.2
5	15600.00	37.5 AV	54.0	-16.5	1.53 V	142	25.3	12.2

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

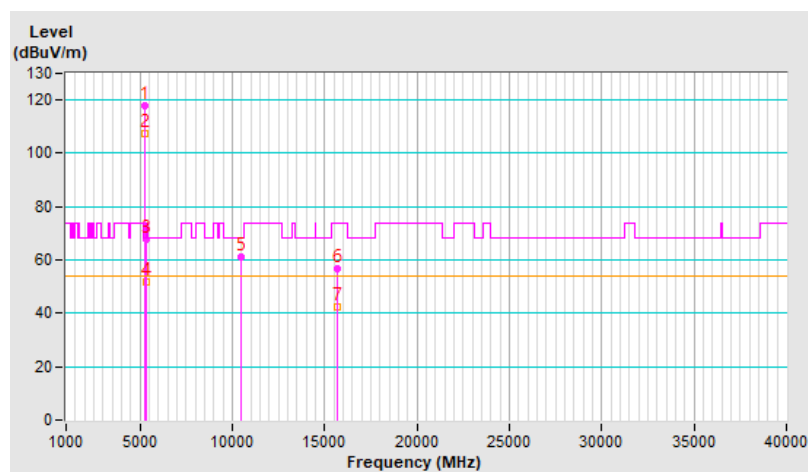


RF Mode	802.11ax (HE20)	Channel	CH 48 : 5240 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	22 °C, 65 % RH
Tested By	Willy Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5240.00	117.7 PK			2.57 H	324	115.7	2.0
2	*5240.00	107.3 AV			2.57 H	324	105.3	2.0
3	5350.00	67.5 PK	74.0	-6.5	2.57 H	324	65.3	2.2
4	5350.00	51.6 AV	54.0	-2.4	2.57 H	324	49.4	2.2
5	#10480.00	61.0 PK	68.2	-7.2	1.45 H	277	48.8	12.2
6	15720.00	56.7 PK	74.0	-17.3	1.41 H	313	45.0	11.7
7	15720.00	42.4 AV	54.0	-11.6	1.41 H	313	30.7	11.7

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.

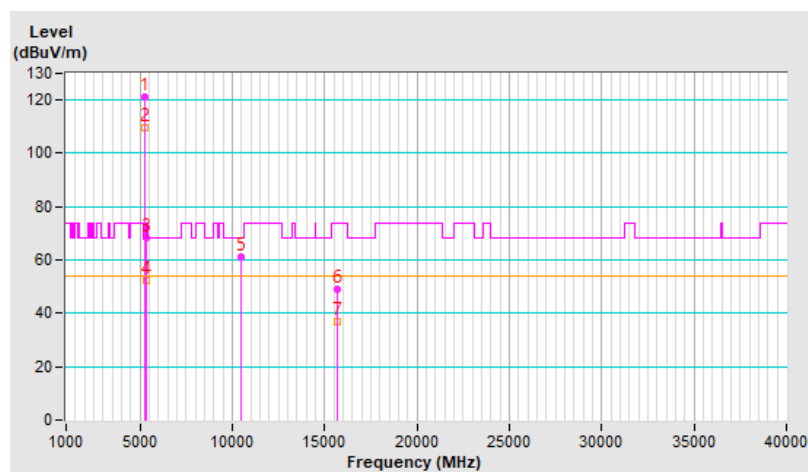


RF Mode	802.11ax (HE20)	Channel	CH 48 : 5240 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	22 °C, 65 % RH
Tested By	Willy Lin		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5240.00	121.3 PK			1.61 V	9	119.3	2.0
2	*5240.00	109.5 AV			1.61 V	9	107.5	2.0
3	5350.00	68.5 PK	74.0	-5.5	1.61 V	9	66.3	2.2
4	5350.00	52.1 AV	54.0	-1.9	1.61 V	9	49.9	2.2
5	#10480.00	61.2 PK	68.2	-7.0	1.77 V	255	49.0	12.2
6	15720.00	48.9 PK	74.0	-25.1	1.51 V	156	37.2	11.7
7	15720.00	37.1 AV	54.0	-16.9	1.51 V	156	25.4	11.7

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.

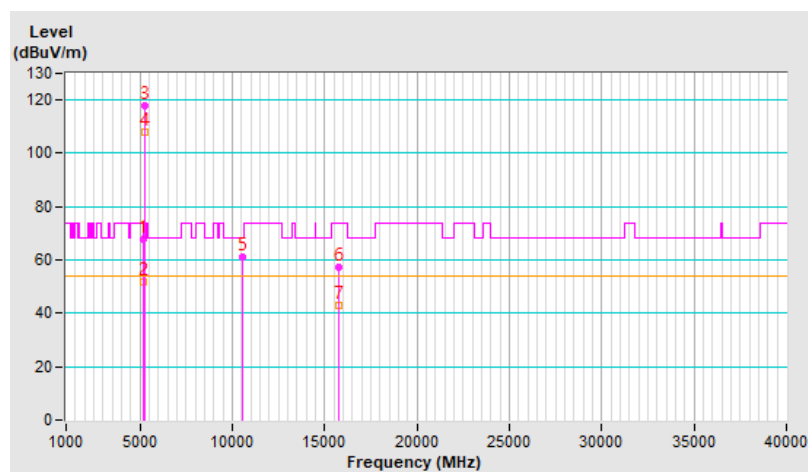


RF Mode	802.11ax (HE20)	Channel	CH 52 : 5260 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	22 °C, 65 % RH
Tested By	Willy Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	67.5 PK	74.0	-6.5	2.63 H	323	64.8	2.7
2	5150.00	51.9 AV	54.0	-2.1	2.63 H	323	49.2	2.7
3	*5260.00	118.1 PK			2.63 H	323	116.2	1.9
4	*5260.00	107.7 AV			2.63 H	323	105.8	1.9
5	#10520.00	61.1 PK	68.2	-7.1	1.51 H	273	49.0	12.1
6	15780.00	57.1 PK	74.0	-16.9	1.43 H	308	45.5	11.6
7	15780.00	42.9 AV	54.0	-11.1	1.43 H	308	31.3	11.6

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

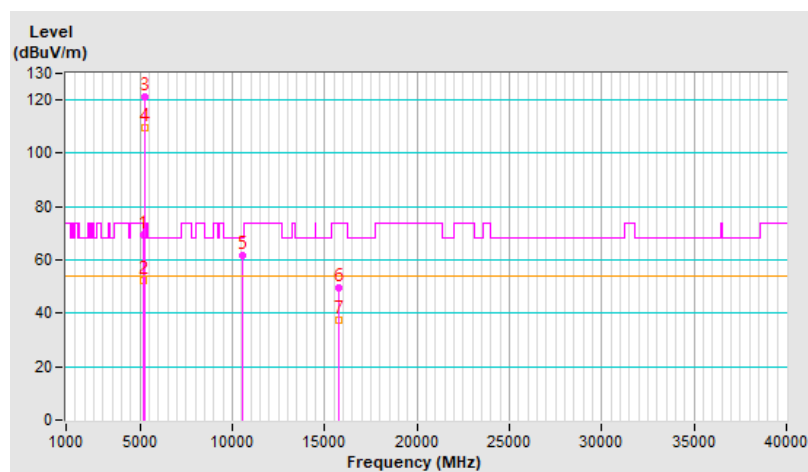


RF Mode	802.11ax (HE20)	Channel	CH 52 : 5260 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	22 °C, 65 % RH
Tested By	Willy Lin		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	69.3 PK	74.0	-4.7	1.56 V	31	66.6	2.7
2	5150.00	52.5 AV	54.0	-1.5	1.56 V	31	49.8	2.7
3	*5260.00	121.4 PK			1.56 V	31	119.5	1.9
4	*5260.00	109.7 AV			1.56 V	31	107.8	1.9
5	#10520.00	61.8 PK	68.2	-6.4	1.76 V	256	49.7	12.1
6	15780.00	49.6 PK	74.0	-24.4	1.46 V	150	38.0	11.6
7	15780.00	37.5 AV	54.0	-16.5	1.46 V	150	25.9	11.6

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

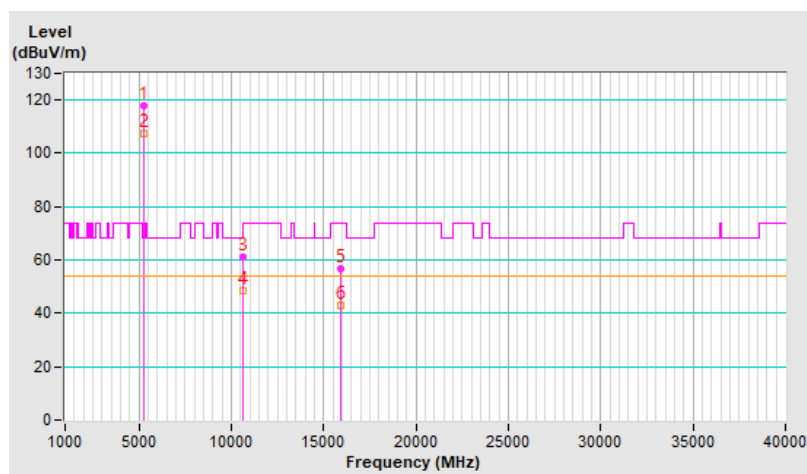


RF Mode	802.11ax (HE20)	Channel	CH 60 : 5300 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	22 °C, 65 % RH
Tested By	Willy Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5300.00	117.7 PK			2.64 H	327	115.9	1.8
2	*5300.00	107.5 AV			2.64 H	327	105.7	1.8
3	10600.00	61.1 PK	74.0	-12.9	1.41 H	274	48.8	12.3
4	10600.00	48.6 AV	54.0	-5.4	1.41 H	274	36.3	12.3
5	15900.00	56.8 PK	74.0	-17.2	1.48 H	321	45.6	11.2
6	15900.00	42.7 AV	54.0	-11.3	1.48 H	321	31.5	11.2

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.

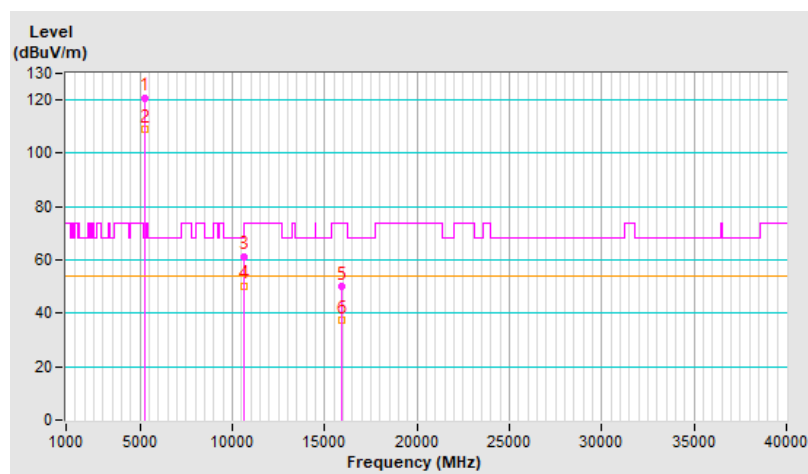


RF Mode	802.11ax (HE20)	Channel	CH 60 : 5300 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	22 °C, 65 % RH
Tested By	Willy Lin		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5300.00	120.9 PK			1.53 V	34	119.1	1.8
2	*5300.00	109.2 AV			1.53 V	34	107.4	1.8
3	10600.00	61.4 PK	74.0	-12.6	1.67 V	244	49.1	12.3
4	10600.00	50.4 AV	54.0	-3.6	1.67 V	244	38.1	12.3
5	15900.00	49.9 PK	74.0	-24.1	1.55 V	140	38.7	11.2
6	15900.00	37.6 AV	54.0	-16.4	1.55 V	140	26.4	11.2

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.

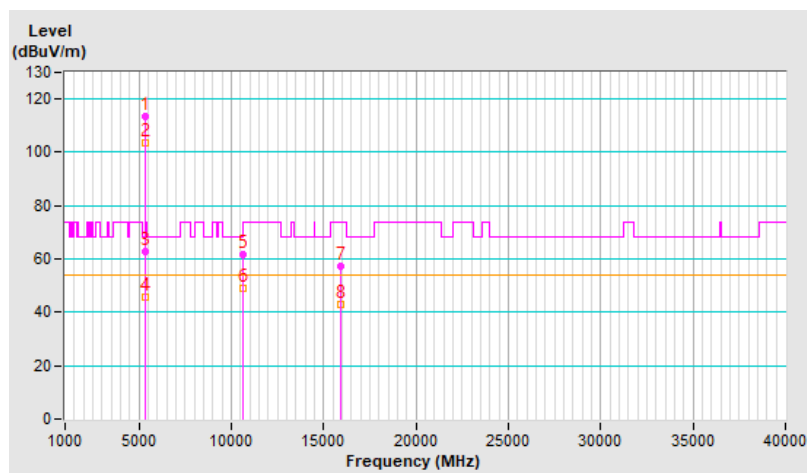


RF Mode	802.11ax (HE20)	Channel	CH 64 : 5320 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	22 °C, 65 % RH
Tested By	Willy Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5320.00	113.6 PK			1.50 H	141	111.6	2.0
2	*5320.00	103.5 AV			1.50 H	141	101.5	2.0
3	5350.00	62.8 PK	74.0	-11.2	1.50 H	141	60.6	2.2
4	5350.00	45.9 AV	54.0	-8.1	1.50 H	141	43.7	2.2
5	10640.00	61.5 PK	74.0	-12.5	1.41 H	272	49.2	12.3
6	10640.00	49.0 AV	54.0	-5.0	1.41 H	272	36.7	12.3
7	15960.00	57.3 PK	74.0	-16.7	1.44 H	335	45.8	11.5
8	15960.00	42.7 AV	54.0	-11.3	1.44 H	335	31.2	11.5

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.

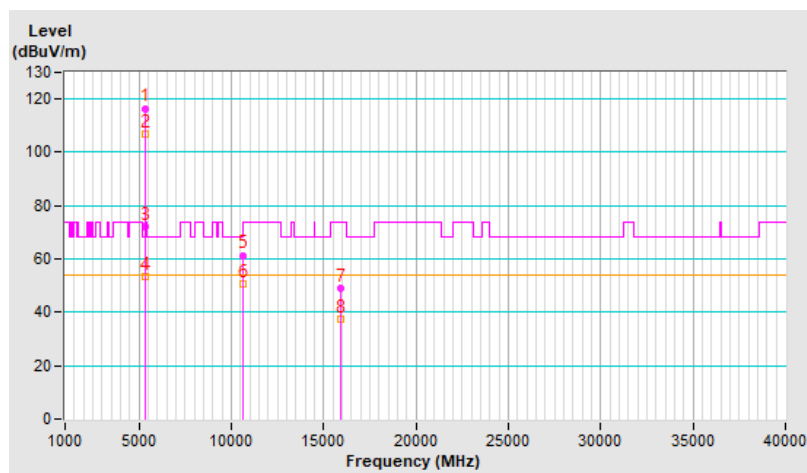


RF Mode	802.11ax (HE20)	Channel	CH 64 : 5320 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	22 °C, 65 % RH
Tested By	Willy Lin		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5320.00	116.5 PK			1.21 V	16	114.5	2.0
2	*5320.00	106.6 AV			1.21 V	16	104.6	2.0
3	5350.00	72.3 PK	74.0	-1.7	1.21 V	16	70.1	2.2
4	5350.00	53.6 AV	54.0	-0.4	1.21 V	16	51.4	2.2
5	10640.00	61.4 PK	74.0	-12.6	1.71 V	255	49.1	12.3
6	10640.00	50.6 AV	54.0	-3.4	1.71 V	255	38.3	12.3
7	15960.00	49.2 PK	74.0	-24.8	1.51 V	146	37.7	11.5
8	15960.00	37.3 AV	54.0	-16.7	1.51 V	146	25.8	11.5

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.

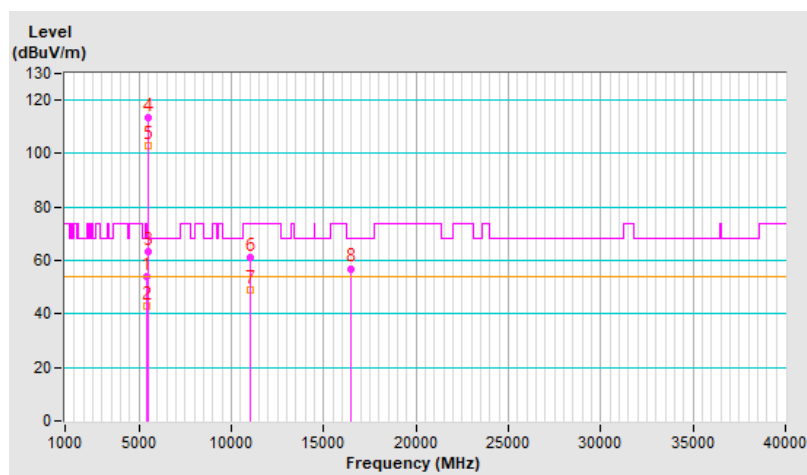


RF Mode	802.11ax (HE20)	Channel	CH 100 : 5500 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	22 °C, 65 % RH
Tested By	Willy Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	53.9 PK	74.0	-20.1	1.50 H	203	51.6	2.3
2	5460.00	42.9 AV	54.0	-11.1	1.50 H	203	40.6	2.3
3	#5470.00	63.5 PK	68.2	-4.7	1.50 H	203	61.2	2.3
4	*5500.00	113.2 PK			1.50 H	203	111.0	2.2
5	*5500.00	102.9 AV			1.50 H	203	100.7	2.2
6	11000.00	61.3 PK	74.0	-12.7	1.42 H	266	48.3	13.0
7	11000.00	48.8 AV	54.0	-5.2	1.42 H	266	35.8	13.0
8	#16500.00	57.0 PK	68.2	-11.2	1.42 H	328	43.1	13.9

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

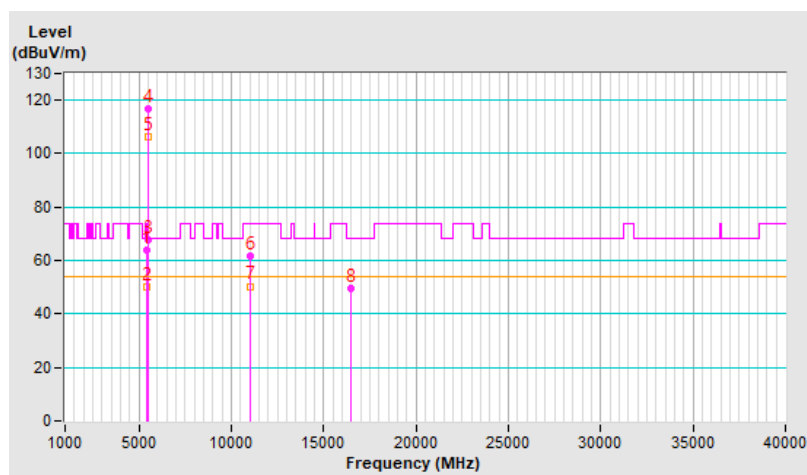


RF Mode	802.11ax (HE20)	Channel	CH 100 : 5500 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	22 °C, 65 % RH
Tested By	Willy Lin		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	63.9 PK	74.0	-10.1	1.26 V	23	61.6	2.3
2	5460.00	50.1 AV	54.0	-3.9	1.26 V	23	47.8	2.3
3	#5470.00	67.9 PK	68.2	-0.3	1.26 V	23	65.6	2.3
4	*5500.00	116.8 PK			1.26 V	23	114.6	2.2
5	*5500.00	106.2 AV			1.26 V	23	104.0	2.2
6	11000.00	61.5 PK	74.0	-12.5	1.78 V	244	48.5	13.0
7	11000.00	50.4 AV	54.0	-3.6	1.78 V	244	37.4	13.0
8	#16500.00	49.5 PK	68.2	-18.7	1.52 V	151	35.6	13.9

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

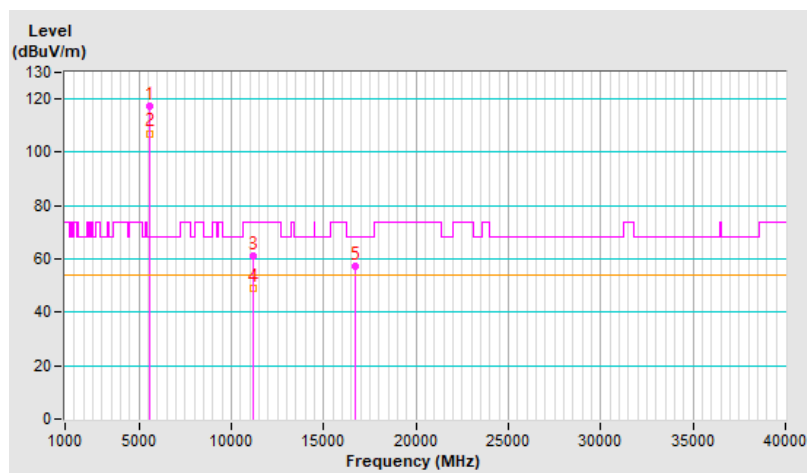


RF Mode	802.11ax (HE20)	Channel	CH 116 : 5580 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	22 °C, 65 % RH
Tested By	Willy Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5580.00	117.3 PK			1.46 H	190	115.1	2.2
2	*5580.00	107.1 AV			1.46 H	190	104.9	2.2
3	11160.00	61.0 PK	74.0	-13.0	1.46 H	277	48.0	13.0
4	11160.00	48.9 AV	54.0	-5.1	1.46 H	277	35.9	13.0
5	#16740.00	57.3 PK	68.2	-10.9	1.44 H	329	40.9	16.4

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

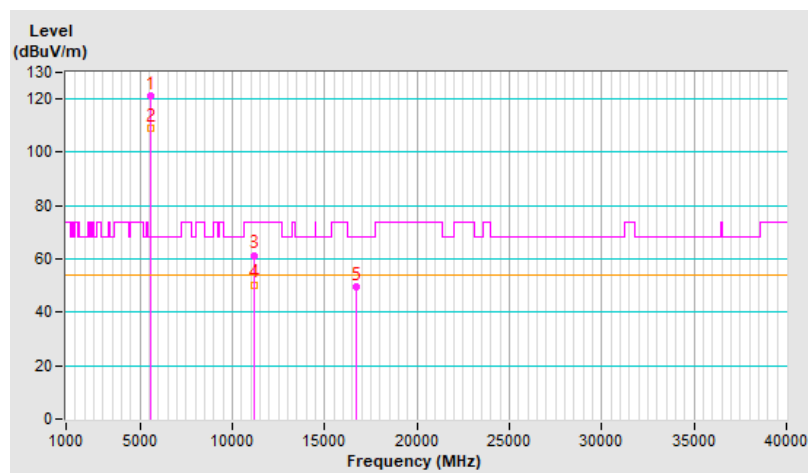


RF Mode	802.11ax (HE20)	Channel	CH 116 : 5580 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	22 °C, 65 % RH
Tested By	Willy Lin		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5580.00	121.1 PK			1.56 V	35	118.9	2.2
2	*5580.00	108.9 AV			1.56 V	35	106.7	2.2
3	11160.00	61.4 PK	74.0	-12.6	1.66 V	256	48.4	13.0
4	11160.00	50.4 AV	54.0	-3.6	1.66 V	256	37.4	13.0
5	#16740.00	49.6 PK	68.2	-18.6	1.52 V	138	33.2	16.4

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.



RF Mode	802.11ax (HE20)	Channel	CH 140 : 5700 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	22 °C, 65 % RH
Tested By	Willy Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5700.00	117.6 PK			2.42 H	232	115.2	2.4
2	*5700.00	107.5 AV			2.42 H	232	105.1	2.4
3	#5725.00	64.2 PK	68.2	-4.0	2.42 H	232	61.8	2.4
4	11400.00	61.4 PK	74.0	-12.6	1.41 H	264	48.3	13.1
5	11400.00	49.3 AV	54.0	-4.7	1.41 H	264	36.2	13.1
6	#17100.00	57.4 PK	68.2	-10.8	1.41 H	330	40.1	17.3

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

