

TEST REPORT

CERTIFICATE OF CONFORMITY

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

Report No.: RFBEMV-WTW-P22080069-1

FCC ID: XCNUBC1340

Product: WeMTA

Brand:



Model No.: UBC1340

Received Date: 2022/7/29

Test Date: 2022/8/16 ~ 2022/12/13

Issued Date: 2023/1/12

Applicant: Ubee Interactive Holding Corp. Taiwan Branch

Address: 10F-1, No.5, Taiyuan 1st St. Jhubei Hsinchu, 302, Taiwan.

Issued By: Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch
Hsin Chu Laboratory

Lab Address: E-2, No.1, Li Hsin 1st Road, Hsinchu Science Park, Hsinchu City 300, Taiwan

Test Location: E-2, No.1, Li Hsin 1st Road, Hsinchu Science Park, Hsinchu City 300, Taiwan

FCC Registration / 723255 / TW2022

Designation Number:

Approved by:



May Chen / Manager

Date:

2023/1/12

This test report consists of 185 pages in total. It may be duplicated completely for legal use with the approval of the applicant. It should not be reproduced except in full, without the written approval of our laboratory. The test results in the report only apply to the tested sample. The test results in this report are traceable to the national or international standards.

Prepared by : Vito Lung / Specialist



This report is governed by, and incorporates by reference, the Conditions of Testing as posted at the date of issuance of this report at <http://www.bureauveritas.com/home/about-us/our-business/cps/about-us/terms-conditions/> and is intended for your exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our prior written permission. This report sets forth our findings solely with respect to the test samples identified herein. The results set forth in this report are not indicative or representative of the quality or characteristics of the lot from which a test sample was taken or any similar or identical product unless specifically and expressly noted. Our report includes all of the tests requested by you and the results thereof based upon the information that you provided to us. Measurement uncertainty is only provided upon request for accredited tests. Statements of conformity are based on simple acceptance criteria without taking measurement uncertainty into account, unless otherwise requested in writing. You have 60 days from date of issuance of this report to notify us of any material error or omission caused by our negligence or if you require measurement uncertainty; provided, however, that such notice shall be in writing and shall specifically address the issue you wish to raise. A failure to raise such issue within the prescribed time shall constitute your unqualified acceptance of the completeness of this report, the tests conducted and the correctness of the report contents.

Table of Contents

Release Control Record	4
1 Certificate.....	5
2 Summary of Test Results	6
2.1 Measurement Uncertainty	6
2.2 Supplementary Information	6
3 General Information	7
3.1 General Description of EUT	7
3.2 Antenna Description of EUT	9
3.3 Channel List.....	11
3.4 Test Mode Applicability and Tested Channel Detail.....	13
3.5 Duty Cycle of Test Signal.....	15
3.6 Test Program Used and Operation Descriptions	17
3.7 Connection Diagram of EUT and Peripheral Devices	17
3.8 Configuration of Peripheral Devices and Cable Connections	18
4 Test Instruments	19
4.1 26 dB Bandwidth	19
4.2 RF Output Power.....	19
4.3 Power Spectral Density	19
4.4 6 dB Bandwidth	19
4.5 Occupied Bandwidth.....	19
4.6 Frequency Stability	20
4.7 AC Power Conducted Emissions	20
4.8 Unwanted Emissions below 1 GHz	21
4.9 Unwanted Emissions above 1 GHz.....	22
5 Limits of Test Items.....	23
5.1 26 dB Bandwidth	23
5.2 RF Output Power.....	23
5.3 Power Spectral Density	23
5.4 6 dB Bandwidth	23
5.5 Occupied Bandwidth.....	24
5.6 Frequency Stability	24
5.7 AC Power Conducted Emissions	24
5.8 Unwanted Emissions below 1 GHz	24
5.9 Unwanted Emissions above 1 GHz.....	25
6 Test Arrangements.....	26
6.1 26 dB Bandwidth	26
6.1.1 Test Setup	26
6.1.2 Test Procedure	26
6.2 RF Output Power.....	27
6.2.1 Test Setup	27
6.2.2 Test Procedure	27
6.3 Power Spectral Density	28
6.3.1 Test Setup	28
6.3.2 Test Procedure	28
6.4 6 dB Bandwidth	28
6.4.1 Test Setup	28
6.4.2 Test Procedure	28
6.5 Occupied Bandwidth.....	29
6.5.1 Test Setup	29
6.5.2 Test Procedure	29
6.6 Frequency Stability	29
6.6.1 Test Setup	29
6.6.2 Test Procedure	29
6.7 AC Power Conducted Emissions	30

6.7.1	Test Setup	30
6.7.2	Test Procedure	30
6.8	Unwanted Emissions below 1 GHz	31
6.8.1	Test Setup	31
6.8.2	Test Procedure	32
6.9	Unwanted Emissions above 1 GHz	33
6.9.1	Test Setup	33
6.9.2	Test Procedure	33
7	Test Results of Test Item	34
7.1	26 dB Bandwidth	34
7.2	RF Output Power	39
7.3	Power Spectral Density	62
7.4	6 dB Bandwidth	69
7.5	Occupied Bandwidth	71
7.6	Frequency Stability	80
7.7	AC Power Conducted Emissions	81
7.8	Unwanted Emissions below 1 GHz	83
7.9	Unwanted Emissions above 1 GHz	85
8	Pictures of Test Arrangements	184
9	Information of the Testing Laboratories	185

Release Control Record

Issue No.	Description	Date Issued
RFBEMV-WTW-P22080069-1	Original release.	2023/1/12

1 Certificate

Product: WeMTA

Brand:



Test Model: UBC1340

Sample Status: Mass product

Applicant: Ubee Interactive Holding Corp. Taiwan Branch

Test Date: 2022/8/16 ~ 2022/12/13

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	Pass	For U-NII-2A U-NII-2C Band output power limitation is determined based on 26dBc bandwidth.
15.407(a)(1/2/3)	RF Output Power	Pass	Meet the requirement of limit.
15.407(a)(1/2/3)	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(g)	Frequency Stability	Pass	Meet the requirement of limit.
15.407(b)(9)	AC Power Conducted Emissions	Pass	Minimum passing margin is -14.54 dB at 0.40781 MHz
15.407(b)(9)	Unwanted Emissions below 1 GHz	Pass	Minimum passing margin is -5.5 dB at 651.11 MHz
15.407(b)(1/2/3/4(i)/10)	Unwanted Emissions above 1 GHz	Pass	Minimum passing margin is -0.1 dB at 17235.00, 17385.00, 17475.00, 5149.50, 5463.77, 5470.00 MHz
15.203	Antenna Requirement	Pass	Antenna connector is ipex(MHF) not a standard connector.

Note: Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

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) (±)
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	5.5 dB
Unwanted Emissions above 1 GHz	9 kHz ~ 30 MHz	3.1 dB
	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	WeMTA
Brand	
Test Model	UBC1340
Status of EUT	Mass product
Power Supply Rating	12 Vdc from adapter
Modulation Type	64QAM, 16QAM, QPSK, BPSK for OFDM 256QAM for OFDM in 11ac mode 1024QAM for OFDMA in 11ax HE mode
Modulation Technology	OFDM, OFDMA
Transfer Rate	802.11a: up to 54Mbps 802.11n: up to 600Mbps 802.11ac: up to 1733.3Mbps 802.11ax: up to 4803.3Mbps
Operating Frequency	5.18 GHz ~ 5.25 GHz 5.25 GHz ~ 5.32 GHz 5.5 GHz ~ 5.72 GHz 5.745 GHz ~ 5.825 GHz
Number of Channel	802.11a, 802.11n (HT20), 802.11ac (VHT20), 802.11ax (HE20): 25 802.11n (HT40), 802.11ac (VHT40), 802.11ax (HE40): 12 802.11ac (VHT80), 802.11ax (HE80): 6 802.11ac (VHT160), 802.11ax (HE160): 2
Output Power	CDD Mode: 5.18 GHz ~ 5.25 GHz : 415.241 mW (26.18 dBm) 5.25 GHz ~ 5.32 GHz : 236.857 mW (23.74 dBm) 5.5 GHz ~ 5.72 GHz : 234.201 mW (23.7 dBm) 5.745 GHz ~ 5.825 GHz : 732.621 mW (28.65 dBm) Beamforming Mode: 5.18 GHz ~ 5.25 GHz : 415.241 mW (26.18 dBm) 5.25 GHz ~ 5.32 GHz : 107.281 mW (20.31 dBm) 5.5 GHz ~ 5.72 GHz : 105.039 mW (20.21 dBm) 5.745 GHz ~ 5.825 GHz : 419.468 mW (26.23 dBm)
EUT Category	Indoor Access Point

Note:

1. The EUT has three radios as following table:

Radio 1	Radio 2	Radio 3
WLAN (2.4 GHz)	WLAN (5 GHz)	WLAN (6 GHz)

2. Simultaneously transmission condition.

Condition	Technology		
1	WLAN (2.4 GHz)	WLAN (5 GHz)	WLAN (6 GHz)

Note: The emission of the simultaneous operation has been evaluated and no non-compliance was found.

3. The EUT must be supplied with a power adapter as following table:

AC Adapter 1		
Brand	Model	Specification
MOSO	MSS-V3500WR120-042A0-US	AC Input : 100-240V~ 50/60Hz 1.2A DC Output : 12V 3.5A DC Output Cable : Non-shielded, without core, 1.8m
RJ 45 Cable		
Specification		
Signal Line : 1500+-30mm unshieled, without core		

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

3.2 Antenna Description of EUT

1. The antenna information is listed as below.

Antenna NO.	RF Chain NO.	Brand	Model	Antenna Net Gain(dBi)	Frequency range	Antenna Type	Connector Type
ANT1	5G chain1 2G chain2	Whayu	PCB Antenna	3.3	2.4~2.4835GHz	Dipole	ipex(MHF)
				3.8	5.15~5.25GHz		
				3.7	5.25~5.35GHz		
				3.9	5.47~5.725GHz		
				3.9	5.725~5.85GHz		
ANT6	5G chain3 2G chain0	Whayu	PCB Antenna	3.4	2.4~2.4835GHz	Dipole	ipex(MHF)
				3.6	5.15~5.25GHz		
				3.9	5.25~5.35GHz		
				3.9	5.47~5.725GHz		
				3.7	5.725~5.85GHz		
ANT8	5G chain2 2G chain1	Whayu	PCB Antenna	3.2	2.4~2.4835GHz	Dipole	ipex(MHF)
				3.8	5.15~5.25GHz		
				3.4	5.25~5.35GHz		
				3.9	5.47~5.725GHz		
				3.9	5.725~5.85GHz		
ANT3	5G chain0	Whayu	PCB Antenna	3.4	5.15~5.25GHz	Dipole	ipex(MHF)
				3.5	5.25~5.35GHz		
				3.2	5.47~5.725GHz		
				3.4	5.725~5.85GHz		
ANT2	6G chain3	Whayu	PCB Antenna	3.4	5.925GHz~6.425GHz	Dipole	ipex(MHF)
				3.4	6.425GHz~6.525GHz		
				3.4	6.525GHz~6.875Hz		
				3.4	6.875Hz~7.125GHz		
ANT4	6G chain2	Whayu	PCB Antenna	3.3	5.925GHz~6.425GHz	Dipole	ipex(MHF)
				3.3	6.425GHz~6.525GHz		
				3.3	6.525GHz~6.875Hz		
				3.4	6.875Hz~7.125GHz		
ANT5	6G chain1	Whayu	PCB Antenna	3.4	5.925GHz~6.425GHz	Dipole	ipex(MHF)
				3.4	6.425GHz~6.525GHz		
				3.4	6.525GHz~6.875Hz		
				3.4	6.875Hz~7.125GHz		
ANT7	6G chain0	Whayu	PCB Antenna	3.4	5.925GHz~6.425GHz	Dipole	ipex(MHF)
				3.3	6.425GHz~6.525GHz		
				3.4	6.525GHz~6.875Hz		
				3.4	6.875Hz~7.125GHz		

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

2. The EUT incorporates a MIMO function:

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

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) and 802.11ax mode for 20 MHz (40 MHz, 80 MHz, 160 MHz), therefore the manufacturer will control the power for 802.11n/ac mode is the same as the 802.11ax or more lower than it and investigated worst case to 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

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

Channel	Frequency
50	5250 MHz

FOR 5500 ~ 5720 MHz

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

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 straddle 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. 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).
-----------	--

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

Test Item	Mode	Signal Mode	Tested Channel	Modulation	Data Rate Parameter
26 dB Bandwidth	802.11a	CDD	36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165	BPSK	6Mb/s
	802.11ax (HE20)	CDD	36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165	BPSK	MCS0
	802.11ax (HE40)	CDD	38, 46, 54, 62, 102, 110, 134, 142, 151, 159	BPSK	MCS0
	802.11ax (HE80)	CDD	42, 58, 106, 122, 138, 155	BPSK	MCS0
	802.11ax (HE160)	CDD	50, 114	BPSK	MCS0
RF Output Power	802.11a	CDD	36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165	BPSK	6Mb/s
	802.11ax (HE20)	CDD & Beamforming	36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165	BPSK	MCS0
	802.11ax (HE40)	CDD & Beamforming	38, 46, 54, 62, 102, 110, 134, 142, 151, 159	BPSK	MCS0
	802.11ax (HE80)	CDD & Beamforming	42, 58, 106, 122, 138, 155	BPSK	MCS0
	802.11ax (HE160)	CDD & Beamforming	50, 114	BPSK	MCS0
6 dB Bandwidth	802.11a	CDD	144, 149, 157, 165	BPSK	6Mb/s
	802.11ax (HE20)	CDD	144, 149, 157, 165	BPSK	MCS0
	802.11ax (HE40)	CDD	142, 151, 159	BPSK	MCS0
	802.11ax (HE80)	CDD	138, 155	BPSK	MCS0

Power Spectral Density / Occupied Bandwidth	802.11a	CDD	36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165	BPSK	6Mb/s
	802.11ax (HE20)	CDD	36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165	BPSK	MCS0
	802.11ax (HE40)	CDD	38, 46, 54, 62, 102, 110, 134, 142, 151, 159	BPSK	MCS0
	802.11ax (HE80)	CDD	42, 58, 106, 122, 138, 155	BPSK	MCS0
	802.11ax (HE160)	CDD	50, 114	BPSK	MCS0
Frequency Stability	802.11a	-	36	un-modulation	-
AC Power Conducted Emissions	802.11ax (HE40)	CDD	159	BPSK	MCS0
Unwanted Emissions below 1 GHz	802.11ax (HE40)	CDD	159	BPSK	MCS0
Unwanted Emissions above 1 GHz	802.11a	CDD	36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165	BPSK	6Mb/s
	802.11ax (HE20)	CDD	36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165	BPSK	MCS0
	802.11ax (HE40)	CDD	38, 46, 54, 62, 102, 110, 134, 142, 151, 159	BPSK	MCS0
	802.11ax (HE80)	CDD	42, 58, 106, 122, 138, 155	BPSK	MCS0
	802.11ax (HE160)	CDD	50, 114	BPSK	MCS0

3.5 Duty Cycle of Test Signal

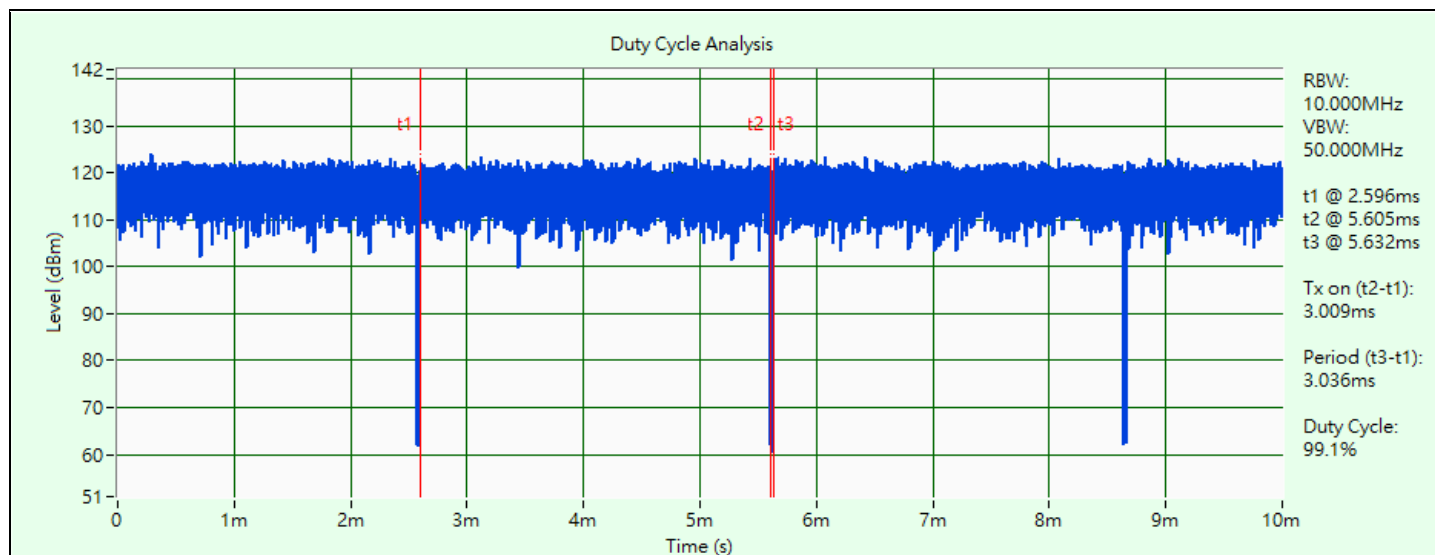
802.11a: Duty cycle = 3.009 ms / 3.036 ms x 100% = 99.1%

802.11ax (HE20): Duty cycle = 3.312 ms / 3.339 ms x 100% = 99.2%

802.11ax (HE40): Duty cycle = 4.184 ms / 4.211 ms x 100% = 99.4%

802.11ax (HE80): Duty cycle = 3.167 ms / 3.194 ms x 100% = 99.2%

802.11ax (HE160): Duty cycle = 2.997 ms / 3.024 ms x 100% = 99.1%

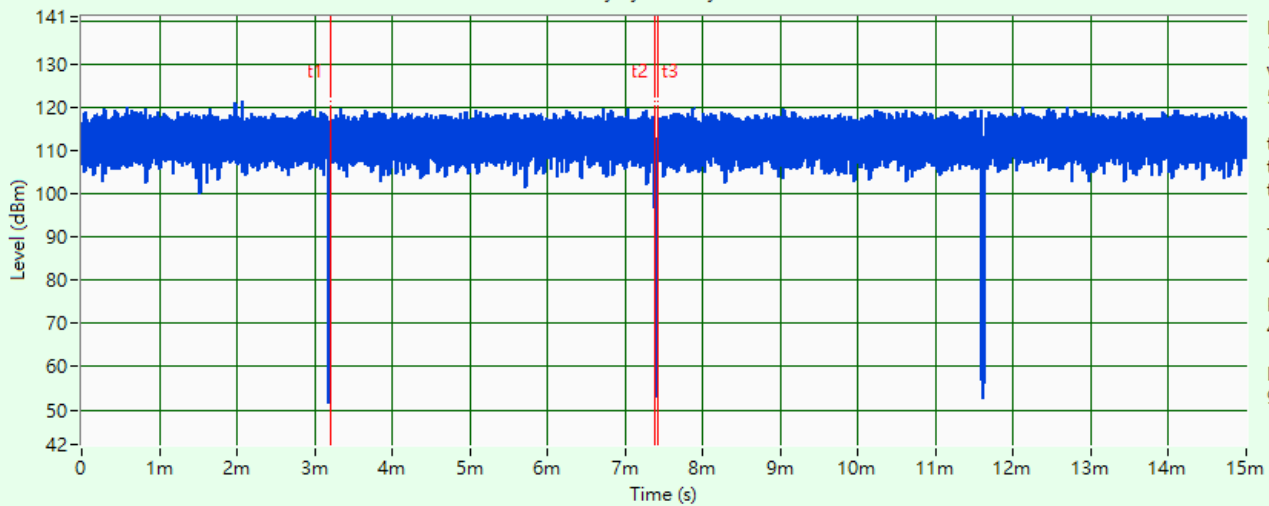


802.11a



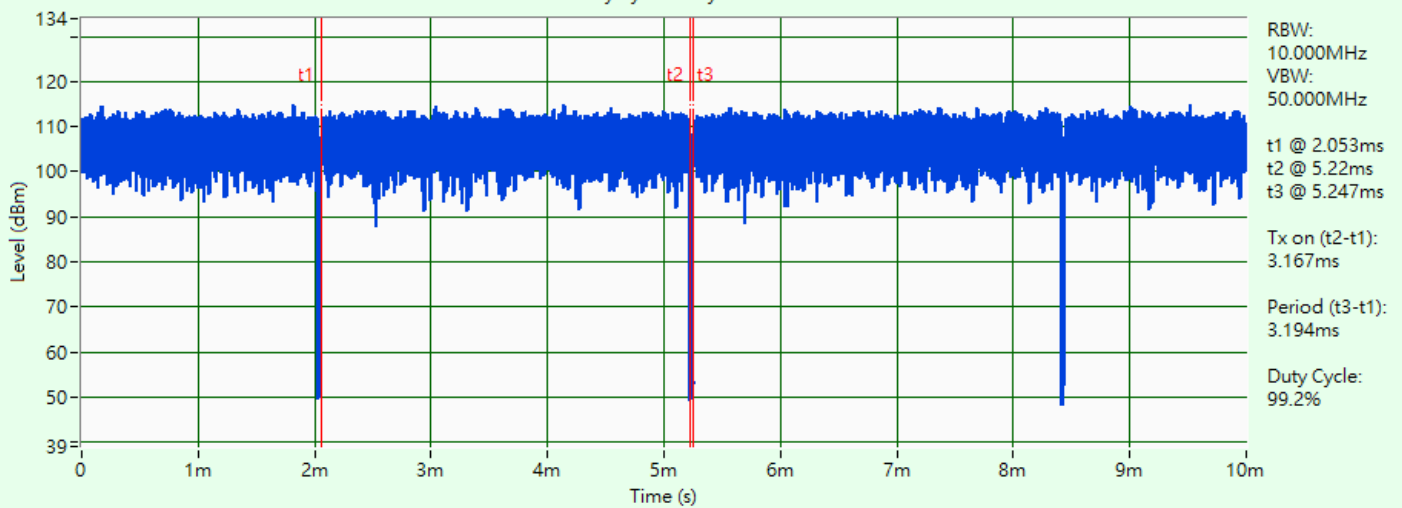
802.11ax (HE20)

Duty Cycle Analysis



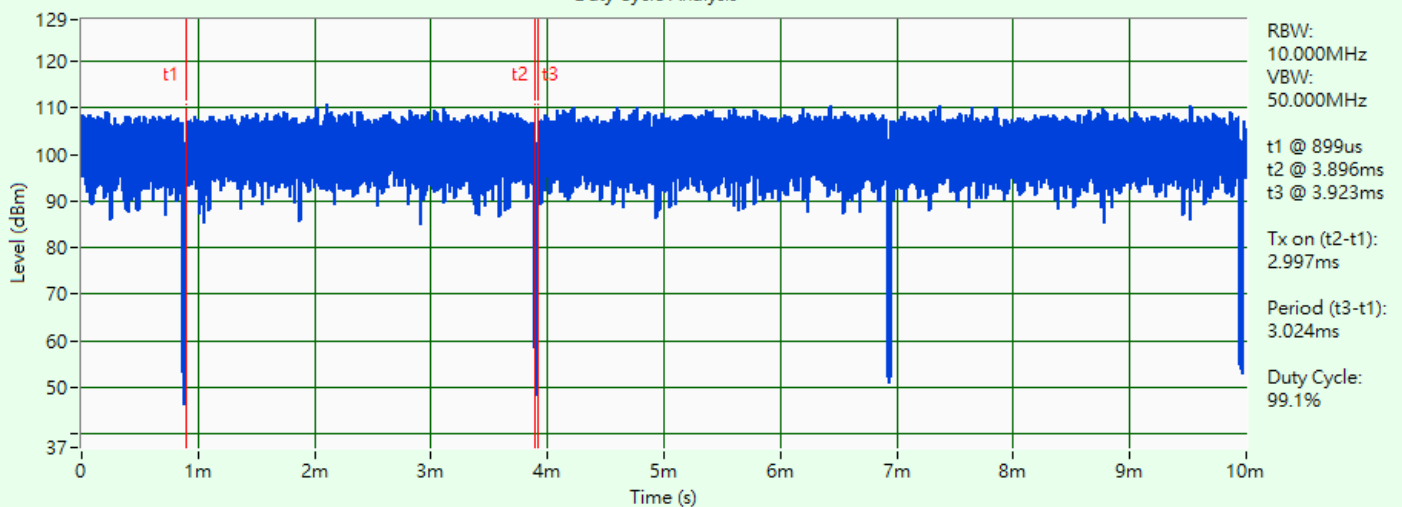
802.11ax (HE40)

Duty Cycle Analysis



802.11ax (HE80)

Duty Cycle Analysis

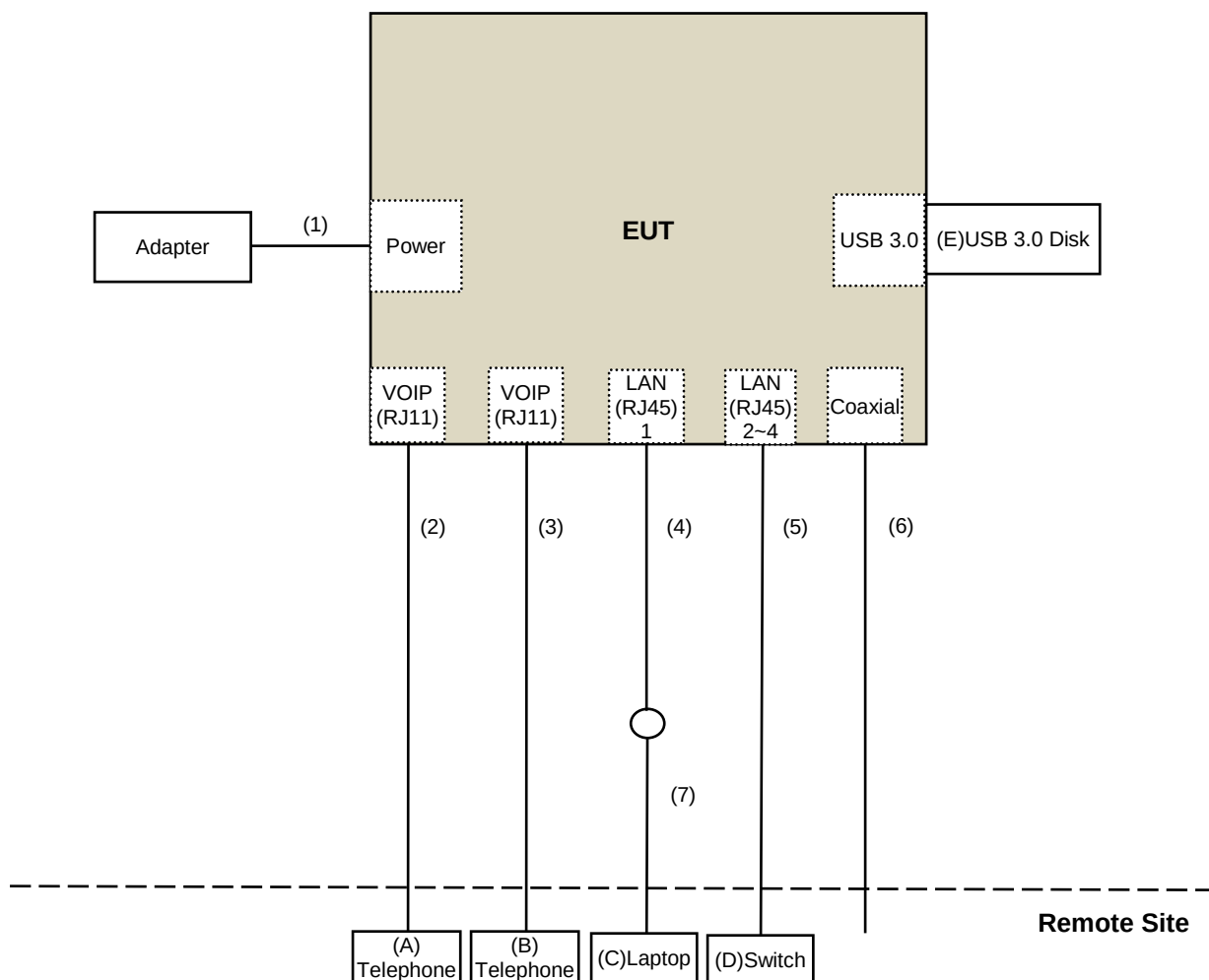


802.11ax (HE160)

3.6 Test Program Used and Operation Descriptions

Controlling software (accessMTool_REL_3_2_1_4) 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	Telephone	Romeo	TE-812	97285638	N/A	Provided by Lab
B	Telephone	Romeo	TE-812	97280903	N/A	Provided by Lab
C	Laptop	Lenovo	20U5S01X00 L14	PF-1ANPYA	N/A	Provided by Lab
D	Switch	D-Link	DGS-1005D	DR8WC92000523	N/A	Provided by Lab
E	USB 3.0 Disk	SanDisk	BM181225896Z	N/A	N/A	Provided by Lab

ID	Cable Descriptions	Qty.	Length (m)	Shielding (Yes/No)	Cores (Qty.)	Remarks
1	DC Cable	1	1.8	No	0	Supplied by applicant
2	RJ11	1	10	No	0	Provided by Lab
3	RJ11	1	10	No	0	Provided by Lab
4	RJ45	1	1.5	No	0	Supplied by applicant
5	RJ45	3	10	No	0	Provided by Lab
6	Coaxial	1	10	Yes	0	Provided by Lab
7	RJ45	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
Attenuator WOKEN	MDCS18N-10	MDCS18N-10-01	2022/4/5	2023/4/4
Software	ADT_RF Test Software V6.6.5.4	N/A	N/A	N/A
Spectrum Analyzer Keysight	N9020B	MY60112409	2022/3/11	2023/3/10

Notes:

1. The test was performed in Oven room 2.
2. Tested Date: 2022/12/13

4.2 RF Output Power

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Attenuator WOKEN	MDCS18N-10	MDCS18N-10-01	2022/4/5	2023/4/4
Power Meter Anritsu	ML2495A	1529002	2022/6/22	2023/6/21
Pulse Power Sensor Anritsu	MA2411B	1726434	2022/6/22	2023/6/21
Software	ADT_RF Test Software V6.6.5.4	N/A	N/A	N/A
Spectrum Analyzer Keysight	N9020B	MY60112409	2022/3/11	2023/3/10

Notes:

1. The test was performed in Oven room 2.
2. Tested Date: 2022/12/13

4.3 Power Spectral Density

Refer to section 4.1 to get information of the instruments.

4.4 6 dB Bandwidth

Refer to section 4.1 to get information of the instruments.

4.5 Occupied Bandwidth

Refer to section 4.1 to get information of the instruments.

4.6 Frequency Stability

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
AC Power Source GOOD WILL	6905S	1991551	N/A	N/A
Attenuator WOKEN	MDCS18N-10	MDCS18N-10-01	2022/4/5	2023/4/4
Software	ADT_RF Test Software V6.6.5.4	N/A	N/A	N/A
Spectrum Analyzer Keysight	N9020B	MY60112409	2022/3/11	2023/3/10
Temperature & Humidity Chamber Giant Force	GTH-150-40-SP-AR	MAA0812-008	2022/1/14	2023/1/13
True RMS Clamp Meter Fluke	325	31130711WS	2022/6/9	2023/6/8

Notes:

1. The test was performed in Oven room 2.
2. Tested Date: 2022/12/13

4.7 AC Power Conducted Emissions

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
50 ohm terminal resistance	N/A	EMC-01	2022/9/27	2023/9/26
Fixed attenuator STI	STI02-2200-10	005	2022/8/24	2023/8/23
LISN R&S	ESH3-Z5	848773/004	2022/10/18	2023/10/17
RF Coaxial Cable JYEBO	5D-FB	COCCAB-001	2022/8/24	2023/8/23
Software BVADT	BVADT_Cond_V7.3.7.4	N/A	N/A	N/A
TEST RECEIVER R&S	ESCS 30	847124/029	2022/10/14	2023/10/13

Notes:

1. The test was performed in Conduction 1
2. Tested Date: 2022/11/20

4.8 Unwanted Emissions below 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
Fixed attenuator Mini-Circuits	UNAT-5+	PAD-ATT5-03	2022/1/10	2023/1/9
LOOP ANTENNA Electro-Metrics	EM-6879	264	2022/3/18	2023/3/17
Pre_Amplifier Agilent	8447D	2944A10636	2022/3/19	2023/3/18
Pre_Amplifier EMCI	EMC330N	980701	2022/3/8	2023/3/7
RF Coaxial Cable COMMATE/PEWC	8D	966-4-1	2022/3/8	2023/3/7
		966-4-2	2022/3/8	2023/3/7
		966-4-3	2022/3/8	2023/3/7
RF Coaxial Cable JYEBO	5D-FB	LOOPCAB-001	2022/1/6	2023/1/5
		LOOPCAB-002	2022/1/6	2023/1/5
Software	ADT_Radiated_V8.7.08	N/A	N/A	N/A
Spectrum Analyzer KEYSIGHT	N9030B	MY57142938	2022/4/26	2023/4/25
Trilog Broadband Antenna Schwarzbeck	VULB 9168	9168-406	2022/10/21	2023/10/20

Notes:

1. The test was performed in 966 Chamber No. 4.
2. Tested Date: 2022/11/19

4.9 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
Horn Antenna Schwarzbeck	BBHA 9120D	9120D-783	2021/11/14 2022/11/13	2022/11/13 2023/11/12
	BBHA 9170	9170-739	2021/11/14 2022/11/13	2022/11/13 2023/11/12
LOOP ANTENNA Electro-Metrics	EM-6879	264	2022/3/18	2023/3/17
Pre_Amplifier Agilent	8447D	2944A10636	2022/3/19	2023/3/18
Pre_Amplifier EMCI	EMC12630SE	980688	2022/2/16 2022/10/4	2023/2/15 2023/10/3
	EMC184045SE	980387	2022/1/10	2023/1/9
RF Cable-Frequency Range : 1- 26.5GHz EMCI	EMC104-SM-SM-1200	160922	2021/12/24	2022/12/23
RF Cable-Frequency range: 1- 40GHz EMCI	EMC102-KM-KM-1200	160924	2022/1/10	2023/1/9
RF Coaxial Cable EMCI	EMC-KM-KM-4000	200214	2022/3/8	2023/3/7
	EMC104-SM-SM-2000	180502	2022/4/25	2023/4/24
	EMC104-SM-SM-6000	210704	2021/11/9 2022/11/4	2022/11/8 2023/11/3
RF Coaxial Cable JYEBO	5D-FB	LOOPCAB-001	2022/1/6	2023/1/5
		LOOPCAB-002	2022/1/6	2023/1/5
Software	ADT_Radiated_V8.7.08	N/A	N/A	N/A
Spectrum Analyzer Keysight	N9020B	MY60112410	2022/3/13	2023/3/12
Spectrum Analyzer KEYSIGHT	N9030B	MY57142938	2022/4/26	2023/4/25

Notes:

1. The test was performed in 966 Chamber No. 4.
2. Tested Date: 2022/8/16 ~ 2022/12/1

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	250mW (24 dBm) or 11 dBm+10 log B*
U-NII-2C	250mW (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 Frequency Stability

The frequency of the carrier signal shall be maintained within band of operation.

5.7 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.

5.8 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).

5.9 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: 68.2 (dBμV/m) ^{*1}
	PK: 10 (dBm/MHz) ^{*2}	PK: 105.2 (dBμV/m) ^{*2}
	PK: 15.6 (dBm/MHz) ^{*3}	PK: 110.8 (dBμV/m) ^{*3}
	PK: 27 (dBm/MHz) ^{*4}	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.

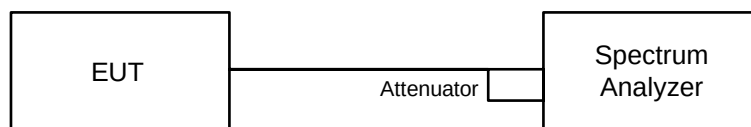
Note: The following formula is used to convert the equipment isotropic radiated power (eirp) to field strength:

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

6 Test Arrangements

6.1 26 dB Bandwidth

6.1.1 Test Setup

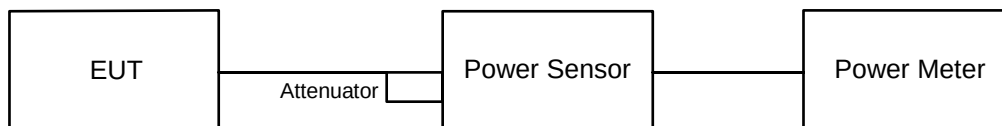


6.1.2 Test Procedure

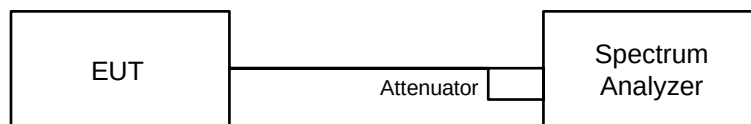
- Set RBW = approximately 1% of the emission bandwidth.
- Set the VBW > RBW.
- Detector = Peak.
- Trace mode = max hold.
- Measure the maximum width of the emission that is 26 dB down from the peak of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement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

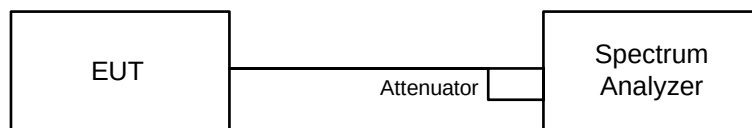
Method SA-1

- Set span to encompass the entire emission bandwidth (EBW) of the signal.
- Set RBW = 1 MHz, Set VBW $\geq$ 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

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

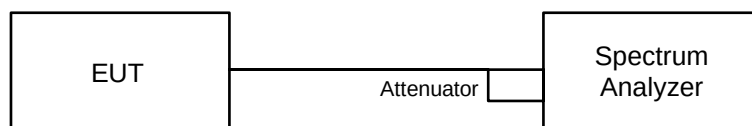
For specified measurement bandwidth 500 kHz:

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

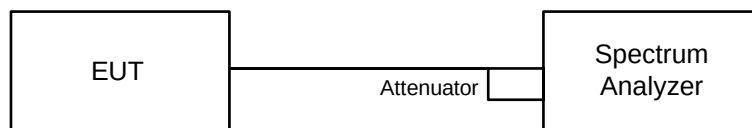


6.4.2 Test Procedure

- 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

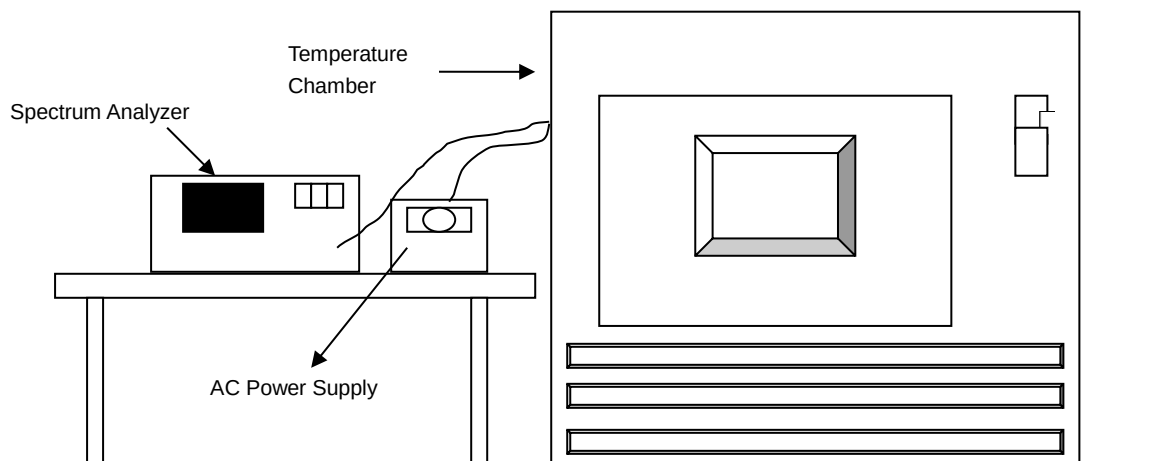


6.5.2 Test Procedure

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 Frequency Stability

6.6.1 Test Setup

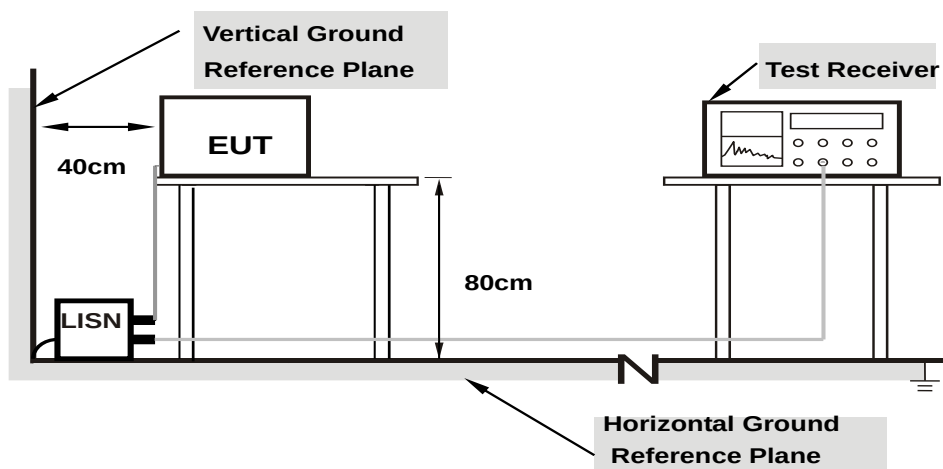


6.6.2 Test Procedure

- The EUT was placed inside the environmental test chamber and powered by nominal AC voltage.
- Turn the EUT on and couple its output to a spectrum analyzer.
- Turn the EUT off and set the chamber to the highest temperature specified.
- Allow sufficient time (approximately 30 min) for the temperature of the chamber to stabilize, turn the EUT on and measure the operating frequency after 2, 5, and 10 Minutes.
- Repeat step (d) with the temperature chamber set to the next desired temperature until measurements down to the lowest specified temperature have been completed.
- The test chamber was allowed to stabilize at +20 degree C for a minimum of 30 Minutes. The supply voltage was then adjusted on the EUT from 85% to 115% and the frequency record.

6.7 AC Power Conducted Emissions

6.7.1 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).

6.7.2 Test Procedure

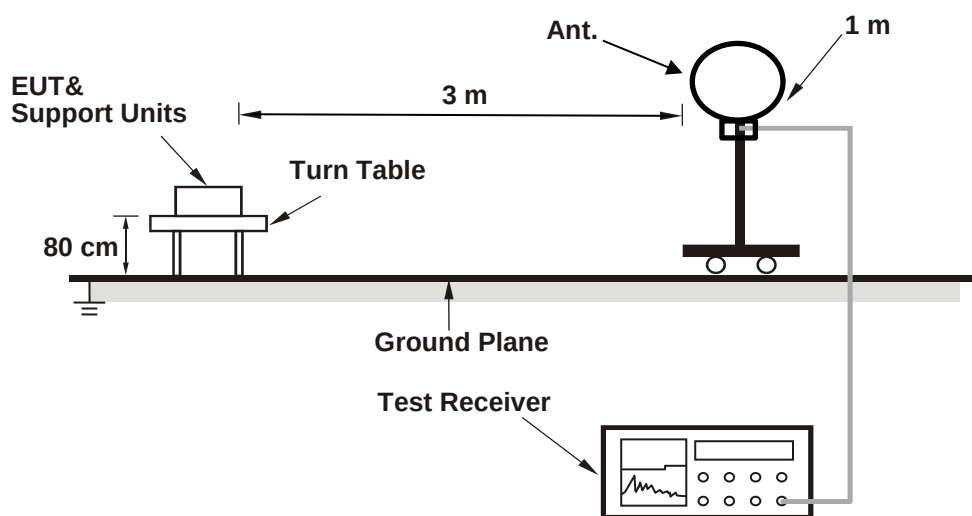
- The EUT was placed on a 0.8 meter to the top of table and placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The 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.

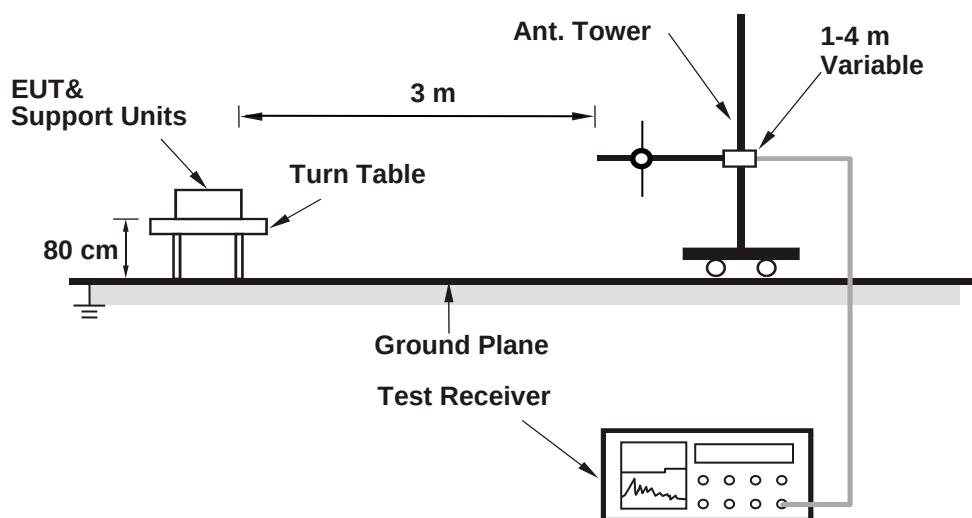
6.8 Unwanted Emissions below 1 GHz

6.8.1 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).

6.8.2 Test Procedure

For Radiated emission below 30 MHz

- 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.
- The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- Parallel, perpendicular, and ground-parallel orientations of the antenna are set to make the measurement.
- 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.
- 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:

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

For Radiated emission above 30 MHz

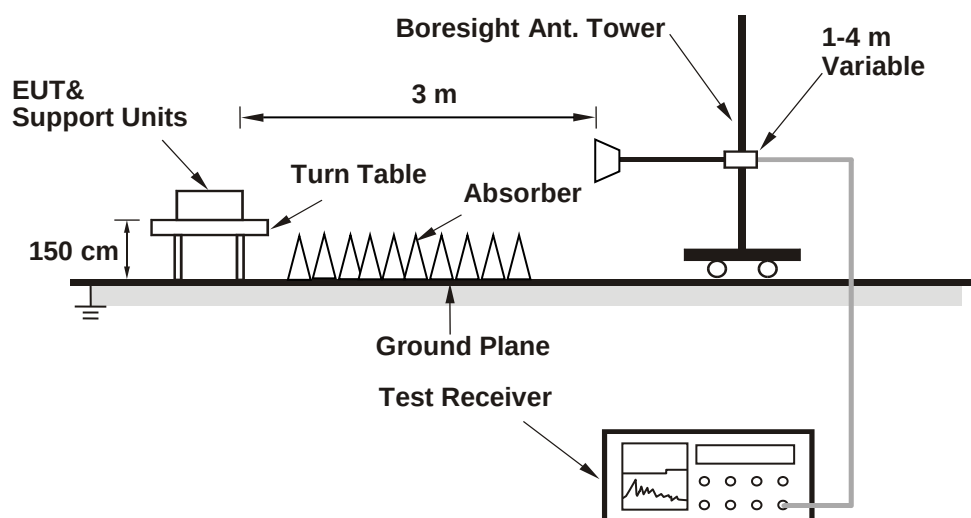
- The EUT was placed on the top of a rotating table 0.8 meters above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top 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 quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1 GHz.

Notes:

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

6.9 Unwanted Emissions above 1 GHz

6.9.1 Test Setup



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

6.9.2 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:	John Peng
--------------	----------------	---------------------------	--------------	------------	-----------

802.11a

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
52	5260	21.67	21.43	21.66	21.63
60	5300	21.39	21.52	21.79	21.57
64	5320	22.91	23.70	24.83	22.37
100	5500	24.15	23.45	22.23	22.67
116	5580	21.54	21.40	21.60	21.58
140	5700	21.48	21.76	21.71	21.58
144 (U-NII-2C)	5720	15.67	15.71	15.71	15.95
144 (U-NII-3)	5720	5.39	5.59	5.70	5.73

Determined Output Power Limit			
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)
52	5260	21.43	24.31 > 24
60	5300	21.39	24.3 > 24
64	5320	22.37	24.49 > 24
100	5500	22.23	24.46 > 24
116	5580	21.40	24.3 > 24
140	5700	21.48	24.32 > 24
144 (U-NII-2C)	5720	15.67	22.95 < 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	21.81	21.61	21.67	21.83
60	5300	21.88	21.60	21.61	21.85
64	5320	23.17	26.49	23.66	23.65
100	5500	23.97	22.09	22.55	24.87
116	5580	21.31	21.56	21.47	21.78
140	5700	21.70	21.76	21.73	21.71
144 (U-NII-2C)	5720	16.02	15.67	15.79	15.74
144 (U-NII-3)	5720	5.79	5.49	5.83	5.76

Determined Output Power Limit				
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)	
52	5260	21.61	24.34	> 24
60	5300	21.60	24.34	> 24
64	5320	23.17	24.64	> 24
100	5500	22.09	24.44	> 24
116	5580	21.31	24.28	> 24
140	5700	21.70	24.36	> 24
144 (U-NII-2C)	5720	15.67	22.95	< 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	41.34	41.31	41.45	41.22
62	5310	48.65	42.82	42.64	48.45
102	5510	46.68	50.75	44.42	49.31
110	5550	41.32	41.28	41.31	41.42
134	5670	41.43	41.46	41.42	41.26
142 (U-NII-2C)	5710	35.82	35.68	35.68	35.86
142 (U-NII-3)	5710	5.65	5.73	5.35	5.50

Determined Output Power Limit			
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)
54	5270	41.22	27.15 > 24
62	5310	42.64	27.29 > 24
102	5510	44.42	27.47 > 24
110	5550	41.28	27.15 > 24
134	5670	41.26	27.15 > 24
142 (U-NII-2C)	5710	35.68	26.52 > 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	84.43	85.66	83.65	84.36
106	5530	95.30	86.06	83.27	85.51
122	5610	82.10	82.01	81.86	82.01
138 (U-NII-2C)	5690	75.95	76.16	75.68	76.01
138 (U-NII-3)	5690	5.59	5.68	5.65	5.60

Determined Output Power Limit			
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)
58	5290	83.65	30.22 > 24
106	5530	83.27	30.2 > 24
122	5610	81.86	30.13 > 24
138 (U-NII-2C)	5690	75.68	29.78 > 24

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

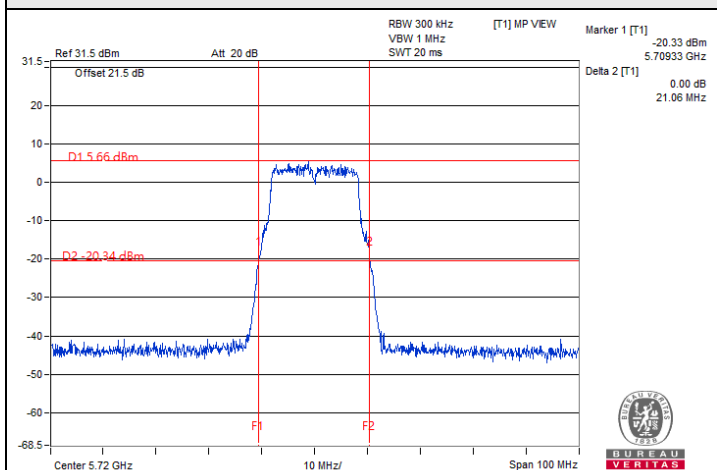
802.11ax (HE160)

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
50 (U-NII-1)	5250	83.28	83.26	82.94	83.08
50 (U-NII-2A)	5250	83.77	83.01	83.34	82.72
114	5570	166.39	167.75	166.91	167.16

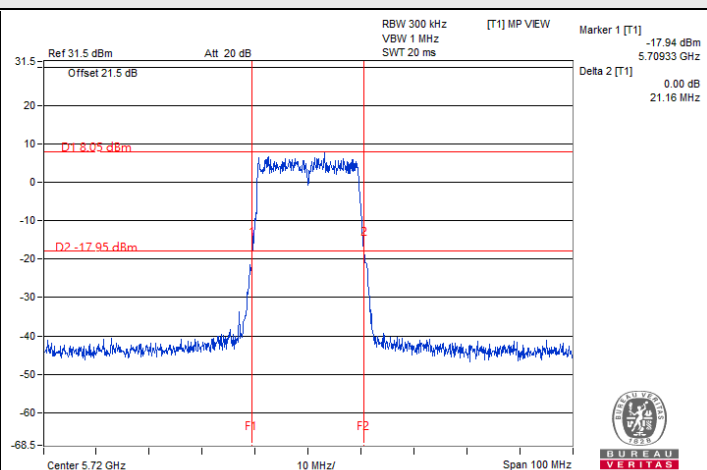
Determined Output Power Limit			
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)
50 (U-NII-2A)	5250	82.72	30.17 > 24
114	5570	166.39	33.21 > 24

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

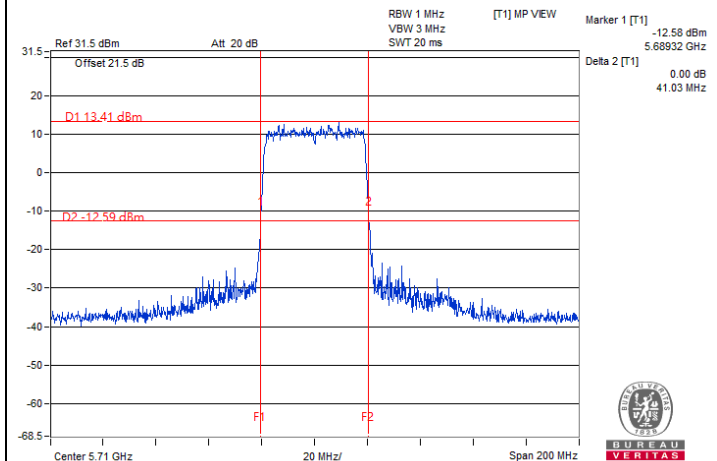
Spectrum Plot of Minimum Value



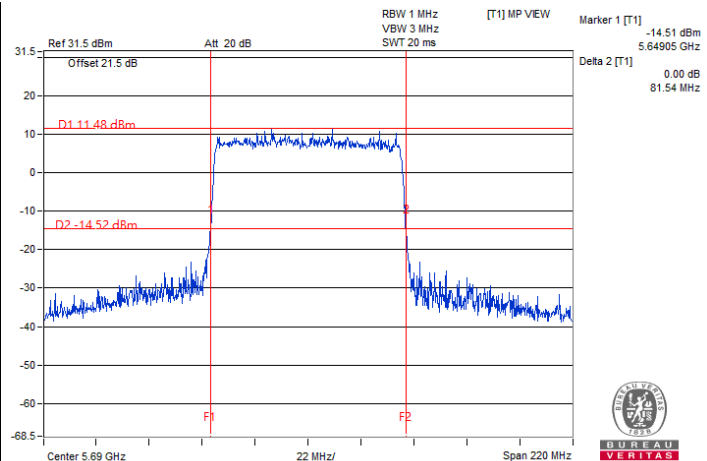
802.11a / Chain 0 : CH 144 (U-NII-3)



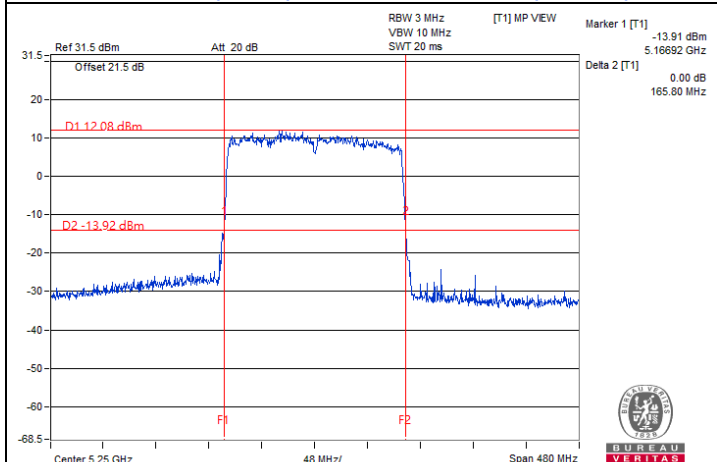
802.11ax (HE20) / Chain 1 : CH 144 (U-NII-3)



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



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



802.11ax (HE160) / Chain 3 : CH 50 (U-NII-2A)

Notes:

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

7.2 RF Output Power

Input Power:	120 Vac, 60 Hz	Environmental Conditions:	25°C, 60% RH	Tested By:	John Peng
--------------	----------------	---------------------------	--------------	------------	-----------

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	19.75	19.47	19.36	19.17	351.819	25.46	30	Pass
40	5200	19.98	19.84	19.57	19.93	384.898	25.85	30	Pass
48	5240	19.58	19.55	19.64	19.45	361.089	25.58	30	Pass
52	5260	13.79	14.34	13.82	14.00	100.315	20.01	24	Pass
60	5300	14.24	14.57	13.77	13.97	103.957	20.17	24	Pass
64	5320	14.18	14.41	13.73	13.79	101.326	20.06	24	Pass
100	5500	14.18	14.10	14.02	14.06	102.589	20.11	24	Pass
116	5580	13.73	13.51	13.77	13.70	93.309	19.70	24	Pass
140	5700	13.87	14.35	13.89	13.79	100.029	20.00	24	Pass
*144 (U-NII-2C)	5720	13.21	13.23	13.10	12.97	82.212	19.15	22.95	Pass
*144 (U-NII-3)	5720	6.71	7.04	7.06	6.79	19.603	12.92	30	Pass
149	5745	22.75	22.54	22.63	22.59	732.621	28.65	30	Pass
157	5785	21.95	21.84	21.87	22.13	626.552	27.97	30	Pass
165	5825	21.46	21.03	20.65	20.95	507.32	27.05	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-1, the directional gain is 3.8 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the directional gain is 3.9 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the directional gain is 3.9 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the directional gain is 3.9 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	19.60	19.91	19.15	19.70	364.7	25.62	30	Pass
40	5200	20.03	20.11	19.71	19.93	395.2	25.97	30	Pass
48	5240	19.52	19.90	19.72	19.69	374.127	25.73	30	Pass
52	5260	13.79	14.50	13.97	14.09	102.708	20.12	24	Pass
60	5300	14.25	14.57	14.11	13.91	105.616	20.24	24	Pass
64	5320	13.85	14.38	13.74	13.61	98.303	19.93	24	Pass
100	5500	14.02	13.84	13.96	14.10	100.038	20.00	24	Pass
116	5580	13.88	13.60	13.90	13.78	95.768	19.81	24	Pass
140	5700	14.33	14.09	13.99	14.16	103.869	20.16	24	Pass
*144 (U-NII-2C)	5720	13.41	13.90	13.52	13.42	90.944	19.59	22.95	Pass
*144 (U-NII-3)	5720	8.17	8.69	8.55	8.20	27.726	14.43	30	Pass
149	5745	22.23	22.09	22.16	22.13	656.659	28.17	30	Pass
157	5785	21.49	21.54	21.52	21.71	573.647	27.59	30	Pass
165	5825	21.04	20.78	20.37	20.64	471.502	26.73	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 directional gain is 3.8 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the directional gain is 3.9 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the directional gain is 3.9 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the directional gain is 3.9 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	17.80	16.40	17.88	17.63	223.227	23.49	30	Pass
46	5230	19.67	19.88	19.77	19.92	382.974	25.83	30	Pass
54	5270	17.41	17.25	17.31	17.32	215.947	23.34	24	Pass
62	5310	17.31	16.88	17.21	16.85	203.599	23.09	24	Pass
102	5510	17.07	16.69	16.90	16.65	192.815	22.85	24	Pass
110	5550	17.23	17.15	17.22	17.18	209.687	23.22	24	Pass
134	5670	17.11	17.49	16.34	16.89	199.427	23.00	24	Pass
*142 (U-NII-2C)	5710	16.67	16.90	16.16	16.40	180.386	22.56	24	Pass
*142 (U-NII-3)	5710	6.85	7.20	6.89	6.65	19.6	12.92	30	Pass
151	5755	21.55	21.49	21.47	21.75	573.723	27.59	30	Pass
159	5795	21.48	21.41	21.54	21.71	569.774	27.56	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 3.8 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the maximum gain is 3.9 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the maximum gain is 3.9 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the maximum gain is 3.9 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	15.21	15.09	15.14	15.08	130.344	21.15	30	Pass
58	5290	18.03	17.12	17.53	17.27	225.013	23.52	24	Pass
106	5530	17.52	17.59	17.40	17.26	222.07	23.46	24	Pass
122	5610	17.76	17.63	17.20	17.42	225.335	23.53	24	Pass
*138 (U-NII-2C)	5690	16.69	16.76	15.98	16.70	180.491	22.56	24	Pass
*138 (U-NII-3)	5690	3.25	3.38	2.78	3.34	8.346	9.21	30	Pass
155	5775	21.13	21.04	20.97	21.24	514.847	27.12	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 3.8 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the maximum gain is 3.9 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the maximum gain is 3.9 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the maximum gain is 3.9 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11ac (VHT160) CDD

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
*50 (U-NII-1)	5250	15.81	16.19	16.01	16.41	163.352	22.13	30	Pass
*50 (U-NII-2A)	5250	16.31	15.88	16.01	15.54	157.194	21.96	24	Pass
114	5570	16.87	17.30	16.63	17.09	199.538	23.00	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 maximum gain of antennas.
- For U-NII-1, the maximum gain is 3.8 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the maximum gain is 3.9 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the maximum gain is 3.9 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	19.84	20.12	19.32	19.86	381.519	25.82	30	Pass
40	5200	20.25	20.33	19.95	20.11	415.241	26.18	30	Pass
48	5240	19.72	20.10	19.92	19.85	390.865	25.92	30	Pass
52	5260	14.02	14.68	14.15	14.26	107.281	20.31	24	Pass
60	5300	14.45	14.75	14.31	14.12	110.515	20.43	24	Pass
64	5320	14.02	14.55	13.96	13.84	102.844	20.12	24	Pass
100	5500	14.24	14.00	14.18	14.30	104.762	20.20	24	Pass
116	5580	14.07	13.84	14.13	14.01	100.796	20.03	24	Pass
140	5700	14.50	14.31	14.23	14.39	109.125	20.38	24	Pass
*144 (U-NII-2C)	5720	13.41	13.90	13.52	13.42	90.944	19.59	22.95	Pass
*144 (U-NII-3)	5720	8.17	8.69	8.55	8.20	27.726	14.43	30	Pass
149	5745	22.48	22.29	22.34	22.35	689.631	28.39	30	Pass
157	5785	21.71	21.74	21.69	21.90	599.984	27.78	30	Pass
165	5825	21.25	20.96	20.55	20.82	492.373	26.92	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-1, the directional gain is 3.8 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the directional gain is 3.9 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the directional gain is 3.9 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the directional gain is 3.9 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	17.90	16.50	17.98	17.73	228.426	23.59	30	Pass
46	5230	19.93	20.14	20.02	20.16	405.892	26.08	30	Pass
54	5270	17.64	17.43	17.48	17.69	228.136	23.58	24	Pass
62	5310	17.50	17.14	17.34	17.13	213.837	23.30	24	Pass
102	5510	17.27	16.88	17.07	16.89	201.885	23.05	24	Pass
110	5550	17.35	17.44	17.28	17.39	218.072	23.39	24	Pass
134	5670	17.39	17.70	16.52	17.10	209.873	23.22	24	Pass
*142 (U-NII-2C)	5710	16.67	16.90	16.16	16.40	180.386	22.56	24	Pass
*142 (U-NII-3)	5710	6.85	7.20	6.89	6.65	19.6	12.92	30	Pass
151	5755	21.75	21.66	21.63	21.92	597.321	27.76	30	Pass
159	5795	21.70	21.62	21.71	21.96	598.41	27.77	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 3.8 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the maximum gain is 3.9 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the maximum gain is 3.9 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the maximum gain is 3.9 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	15.47	15.33	15.37	15.34	137.989	21.40	30	Pass
58	5290	18.24	17.30	17.78	17.52	236.857	23.74	24	Pass
106	5530	17.75	17.84	17.58	17.42	232.867	23.67	24	Pass
122	5610	17.92	17.81	17.36	17.59	234.201	23.70	24	Pass
*138 (U-NII-2C)	5690	16.69	16.76	15.98	16.70	180.491	22.56	24	Pass
*138 (U-NII-3)	5690	3.25	3.38	2.78	3.34	8.346	9.21	30	Pass
155	5775	21.35	21.17	21.22	21.51	541.39	27.34	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 3.8 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the maximum gain is 3.9 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the maximum gain is 3.9 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the maximum gain is 3.9 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				
*50 (U-NII-1)	5250	15.81	16.19	16.01	16.41	163.352	22.13	30	Pass
*50 (U-NII-2A)	5250	16.31	15.88	16.01	15.54	157.194	21.96	24	Pass
114	5570	17.11	17.47	16.85	17.25	208.757	23.20	24	Pass

Notes:

- * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-2 and use spectrum analyzer test , the duty factor was included in the total power.
- Directional gain is the maximum gain of antennas.
- For U-NII-1, the maximum gain is 3.8 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the maximum gain is 3.9 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the maximum gain is 3.9 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	19.60	19.91	19.15	19.70	364.7	25.62	26.33	Pass
40	5200	20.03	20.11	19.71	19.93	395.2	25.97	26.33	Pass
48	5240	19.52	19.90	19.72	19.69	374.127	25.73	26.33	Pass
52	5260	13.79	14.50	13.97	14.09	102.708	20.12	20.35	Pass
60	5300	14.05	14.40	13.94	13.68	101.061	20.05	20.35	Pass
64	5320	13.85	14.38	13.74	13.61	98.303	19.93	20.35	Pass
100	5500	14.02	13.84	13.96	14.10	100.038	20.00	20.25	Pass
116	5580	13.88	13.60	13.90	13.78	95.768	19.81	20.25	Pass
140	5700	14.12	13.92	13.80	13.99	99.532	19.98	20.25	Pass
*144 (U-NII-2C)	5720	12.99	13.48	13.13	13.01	82.749	19.18	19.2	Pass
*144 (U-NII-3)	5720	7.75	8.22	8.14	7.78	25.108	14.00	26.25	Pass
149	5745	19.98	19.89	19.80	19.73	386.511	25.87	26.25	Pass
157	5785	19.65	19.96	19.86	19.76	382.792	25.83	26.25	Pass
165	5825	19.99	20.06	20.17	20.15	408.667	26.11	26.25	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 = $10 \log[(10^{\text{Chain0/20}} + 10^{\text{Chain1/20}} + 10^{\text{Chain2/20}} + 10^{\text{Chain3/20}})^2 / 4]$
- For U-NII-1, the directional gain is 9.67 dBi > 6 dBi, so the output power limit shall be reduced to $30 - (9.67 - 6) = 26.33$ dBm.
- For U-NII-2A, the directional gain is 9.65 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit - (9.65 - 6)].
- For U-NII-2C, the directional gain is 9.75 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit - (9.75 - 6)].
- For U-NII-3, the directional gain is 9.75 dBi > 6 dBi, so the output power limit shall be reduced to $30 - (9.75 - 6) = 26.25$ 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				
38	5190	17.80	16.40	17.88	17.63	223.227	23.49	26.33	Pass
46	5230	19.67	19.88	19.77	19.92	382.974	25.83	26.33	Pass
54	5270	13.96	13.86	13.87	13.98	98.592	19.94	20.35	Pass
62	5310	14.43	14.08	14.31	14.05	105.706	20.24	20.35	Pass
102	5510	14.03	13.68	13.84	13.73	96.443	19.84	20.25	Pass
110	5550	14.16	14.04	13.90	13.75	99.674	19.99	20.25	Pass
134	5670	14.31	14.67	13.51	14.02	103.96	20.17	20.25	Pass
*142 (U-NII-2C)	5710	13.25	13.59	12.96	13.01	83.759	19.23	20.25	Pass
*142 (U-NII-3)	5710	3.48	3.86	3.51	3.22	9.003	9.54	26.25	Pass
151	5755	20.21	20.17	19.82	19.97	404.198	26.07	26.25	Pass
159	5795	20.17	20.36	20.11	19.98	414.74	26.18	26.25	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 = $10 \log[(10^{\text{Chain0}/20} + 10^{\text{Chain1}/20} + 10^{\text{Chain2}/20} + 10^{\text{Chain3}/20})^2 / 4]$
- For U-NII-1, the directional gain is 9.67 dBi > 6 dBi, so the output power limit shall be reduced to $30-(9.67-6) = 26.33$ dBm.
- For U-NII-2A, the directional gain is 9.65 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(9.65-6)].
- For U-NII-2C, the directional gain is 9.75 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(9.75-6)].
- For U-NII-3, the directional gain is 9.75 dBi > 6 dBi, so the output power limit shall be reduced to $30-(9.75-6) = 26.25$ 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				
42	5210	17.10	17.30	16.85	16.77	200.94	23.03	26.33	Pass
58	5290	13.95	14.01	13.96	14.15	100.898	20.04	20.35	Pass
106	5530	13.86	13.85	13.95	13.65	96.593	19.85	20.25	Pass
122	5610	14.31	14.05	13.96	14.16	103.337	20.14	20.25	Pass
*138 (U-NII-2C)	5690	13.21	13.30	12.51	13.24	81.231	19.10	20.25	Pass
*138 (U-NII-3)	5690	-0.11	-0.04	-0.55	-0.09	3.8264	5.83	26.25	Pass
155	5775	20.05	19.95	19.76	19.70	387.962	25.89	26.25	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 = $10 \log[(10^{\text{Chain0}/20} + 10^{\text{Chain1}/20} + 10^{\text{Chain2}/20} + 10^{\text{Chain3}/20})^2 / 4]$
- For U-NII-1, the directional gain is 9.67 dBi > 6 dBi, so the output power limit shall be reduced to $30 - (9.67 - 6) = 26.33$ dBm.
- For U-NII-2A, the directional gain is 9.65 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(9.65-6)].
- For U-NII-2C, the directional gain is 9.75 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(9.75-6)].
- For U-NII-3, the directional gain is 9.75 dBi > 6 dBi, so the output power limit shall be reduced to $30 - (9.75 - 6) = 26.25$ 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				
*50 (U-NII-1)	5250	13.02	13.37	13.18	13.65	85.743	19.33	26.33	Pass
*50 (U-NII-2A)	5250	13.49	13.06	13.20	12.78	82.426	19.16	20.35	Pass
114	5570	14.09	13.99	14.26	14.14	103.316	20.14	20.25	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 = $10 \log[(10^{\text{Chain0}/20} + 10^{\text{Chain1}/20} + 10^{\text{Chain2}/20} + 10^{\text{Chain3}/20})^2 / 4]$
- For U-NII-1, the directional gain is 9.67 dBi > 6 dBi, so the output power limit shall be reduced to $30 - (9.67 - 6) = 26.33$ dBm.
- For U-NII-2A, the directional gain is 9.65 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(9.65-6)].
- For U-NII-2C, the directional gain is 9.75 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(9.75-6)].

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				
36	5180	19.84	20.12	19.32	19.86	381.519	25.82	26.33	Pass
40	5200	20.25	20.33	19.95	20.11	415.241	26.18	26.33	Pass
48	5240	19.72	20.10	19.92	19.85	390.865	25.92	26.33	Pass
52	5260	14.02	14.68	14.15	14.26	107.281	20.31	20.35	Pass
60	5300	14.21	14.48	14.04	13.89	104.26	20.18	20.35	Pass
64	5320	14.02	14.55	13.96	13.84	102.844	20.12	20.35	Pass
100	5500	14.24	14.00	14.18	14.30	104.762	20.20	20.25	Pass
116	5580	14.07	13.84	14.13	14.01	100.796	20.03	20.25	Pass
140	5700	14.24	14.04	13.98	14.16	102.962	20.13	20.25	Pass
*144 (U-NII-2C)	5720	12.99	13.48	13.13	13.01	82.749	19.18	19.2	Pass
*144 (U-NII-3)	5720	7.75	8.22	8.14	7.78	25.108	14.00	26.25	Pass
149	5745	20.19	20.07	20.02	19.91	404.507	26.07	26.25	Pass
157	5785	19.90	20.16	20.08	19.94	401.964	26.04	26.25	Pass
165	5825	20.03	20.15	20.23	20.24	415.328	26.18	26.25	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 = $10 \log[(10^{\text{Chain0}/20} + 10^{\text{Chain1}/20} + 10^{\text{Chain2}/20} + 10^{\text{Chain3}/20})^2 / 4]$
- For U-NII-1, the directional gain is 9.67 dBi > 6 dBi, so the output power limit shall be reduced to $30 - (9.67 - 6) = 26.33$ dBm.
- For U-NII-2A, the directional gain is 9.65 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit - (9.65 - 6)].
- For U-NII-2C, the directional gain is 9.75 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit - (9.75 - 6)].
- For U-NII-3, the directional gain is 9.75 dBi > 6 dBi, so the output power limit shall be reduced to $30 - (9.75 - 6) = 26.25$ 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				
38	5190	17.90	16.50	17.98	17.73	228.426	23.59	26.33	Pass
46	5230	19.93	20.14	20.02	20.16	405.892	26.08	26.33	Pass
54	5270	14.17	14.01	14.08	14.23	103.369	20.14	20.35	Pass
62	5310	14.48	14.11	14.36	14.11	106.871	20.29	20.35	Pass
102	5510	14.25	13.89	13.99	13.89	100.65	20.03	20.25	Pass
110	5550	14.31	14.22	14.05	13.93	103.528	20.15	20.25	Pass
134	5670	14.35	14.71	13.55	14.08	105.039	20.21	20.25	Pass
*142 (U-NII-2C)	5710	13.25	13.59	12.96	13.01	83.759	19.23	20.25	Pass
*142 (U-NII-3)	5710	3.48	3.86	3.51	3.22	9.003	9.54	26.25	Pass
151	5755	20.27	20.23	19.89	20.03	410.045	26.13	26.25	Pass
159	5795	20.22	20.43	20.16	20.01	419.468	26.23	26.25	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 = $10 \log[(10^{\text{Chain0}/20} + 10^{\text{Chain1}/20} + 10^{\text{Chain2}/20} + 10^{\text{Chain3}/20})^2 / 4]$
- For U-NII-1, the directional gain is 9.67 dBi > 6 dBi, so the output power limit shall be reduced to $30-(9.67-6) = 26.33$ dBm.
- For U-NII-2A, the directional gain is 9.65 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(9.65-6)].
- For U-NII-2C, the directional gain is 9.75 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(9.75-6)].
- For U-NII-3, the directional gain is 9.75 dBi > 6 dBi, so the output power limit shall be reduced to $30-(9.75-6) = 26.25$ 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				
42	5210	17.20	17.40	16.93	16.88	205.505	23.13	26.33	Pass
58	5290	13.98	14.07	14.00	14.20	101.952	20.08	20.35	Pass
106	5530	14.02	14.05	14.13	13.89	101.017	20.04	20.25	Pass
122	5610	14.33	14.08	14.02	14.21	104.286	20.18	20.25	Pass
*138 (U-NII-2C)	5690	13.21	13.30	12.51	13.24	81.231	19.10	20.25	Pass
*138 (U-NII-3)	5690	-0.11	-0.04	-0.55	-0.09	3.8264	5.83	26.25	Pass
155	5775	20.27	20.13	19.93	19.92	406.029	26.09	26.25	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 = $10 \log[(10^{\text{Chain0}/20} + 10^{\text{Chain1}/20} + 10^{\text{Chain2}/20} + 10^{\text{Chain3}/20})^2 / 4]$
- For U-NII-1, the directional gain is 9.67 dBi > 6 dBi, so the output power limit shall be reduced to $30 - (9.67 - 6) = 26.33$ dBm.
- For U-NII-2A, the directional gain is 9.65 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(9.65-6)].
- For U-NII-2C, the directional gain is 9.75 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(9.75-6)].
- For U-NII-3, the directional gain is 9.75 dBi > 6 dBi, so the output power limit shall be reduced to $30 - (9.75 - 6) = 26.25$ dBm.

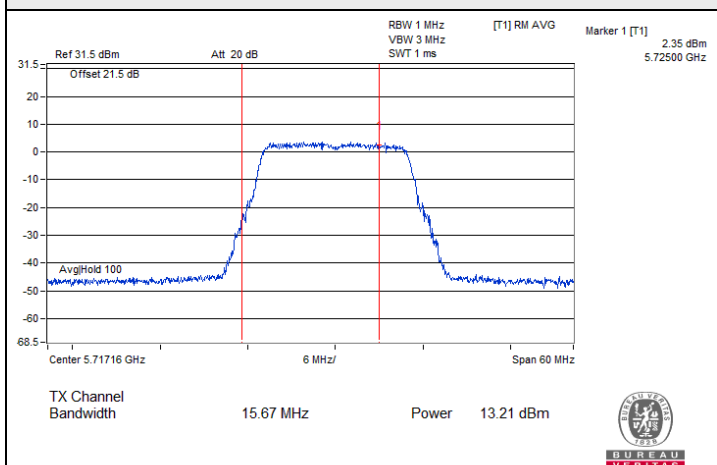
802.11ax (HE160) Beamforming

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				
*50 (U-NII-1)	5250	13.02	13.37	13.18	13.65	85.743	19.33	26.33	Pass
*50 (U-NII-2A)	5250	13.49	13.06	13.20	12.78	82.426	19.16	20.35	Pass
114	5570	14.09	13.99	14.26	14.14	103.316	20.14	20.25	Pass

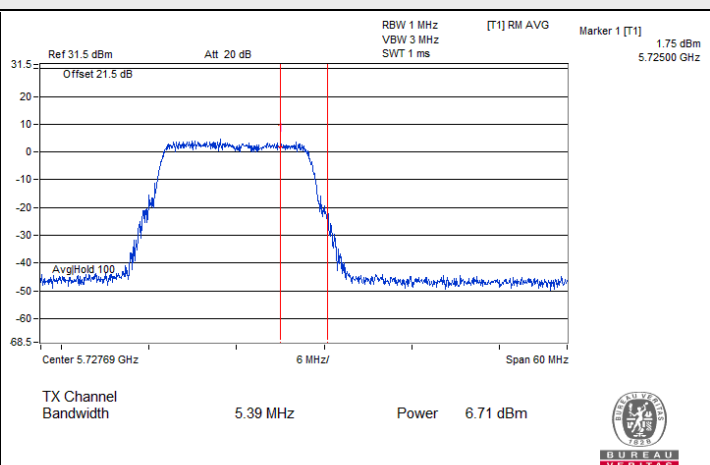
Notes:

- * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.
- Directional gain = $10 \log[(10^{\text{Chain0}/20} + 10^{\text{Chain1}/20} + 10^{\text{Chain2}/20} + 10^{\text{Chain3}/20})^2 / 4]$
- For U-NII-1, the directional gain is 9.67 dBi > 6 dBi, so the output power limit shall be reduced to $30 - (9.67 - 6) = 26.33$ dBm.
- For U-NII-2A, the directional gain is 9.65 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(9.65-6)].
- For U-NII-2C, the directional gain is 9.75 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(9.75-6)].

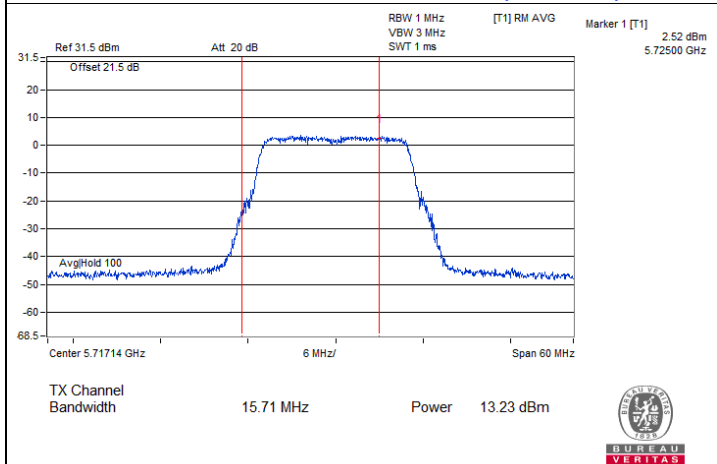
Spectrum Plot for channel straddling



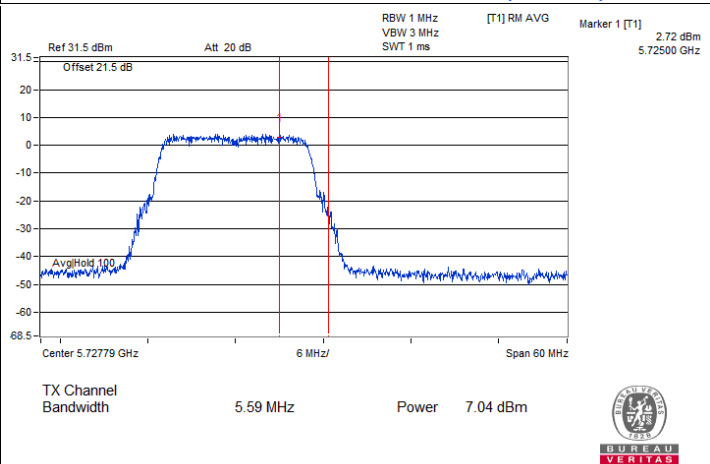
802.11a CDD / Chain 0 : CH 144 (U-NII-2C)



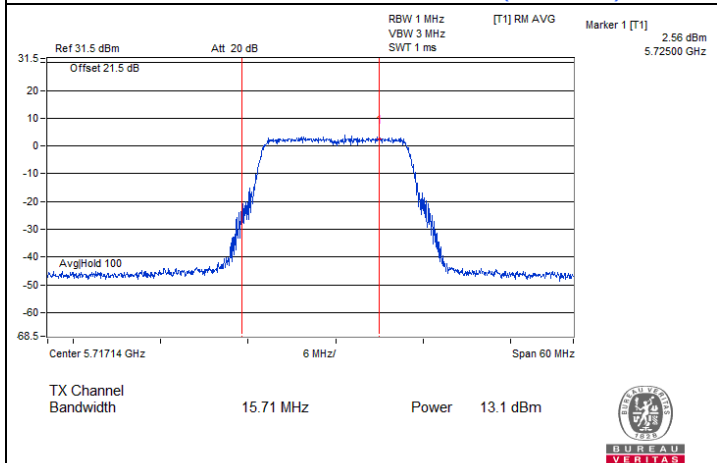
802.11a CDD / Chain 0 : CH 144 (U-NII-3)



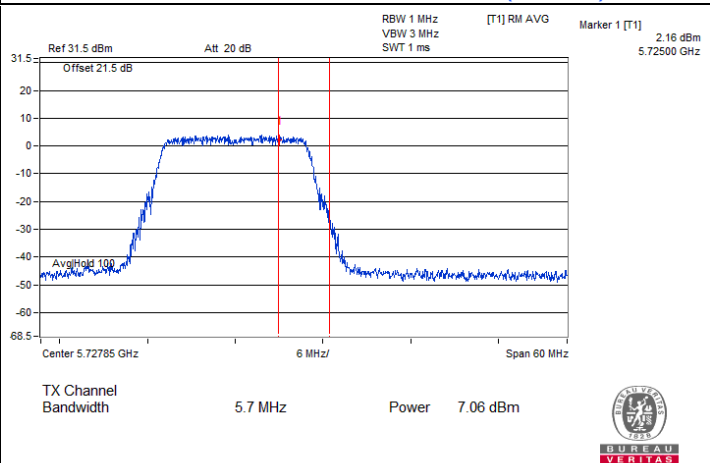
802.11a CDD / Chain 1 : CH 144 (U-NII-2C)



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

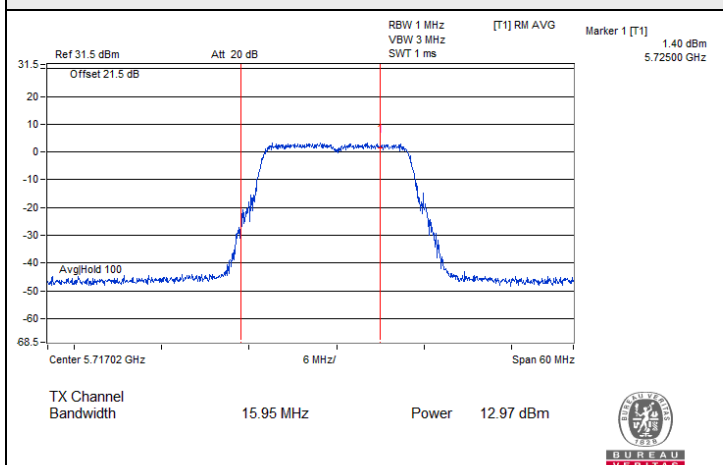


802.11a CDD / Chain 2 : CH 144 (U-NII-2C)

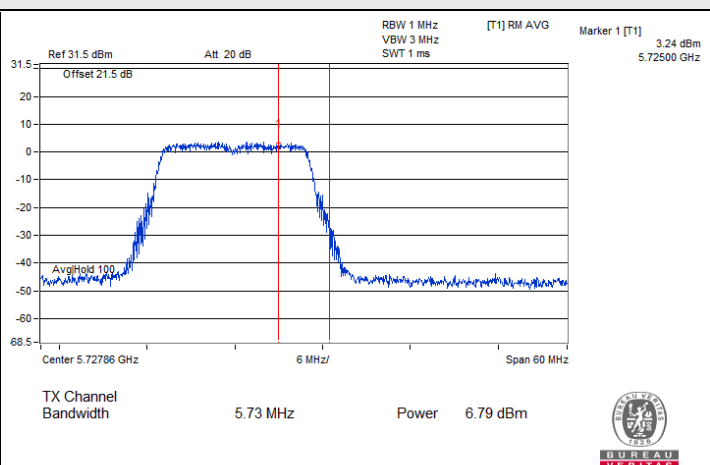


802.11a CDD / Chain 2 : CH 144 (U-NII-3)

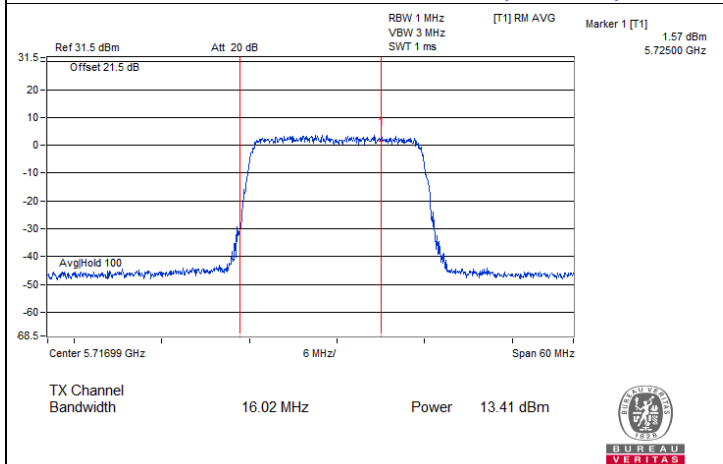
Spectrum Plot for channel straddling



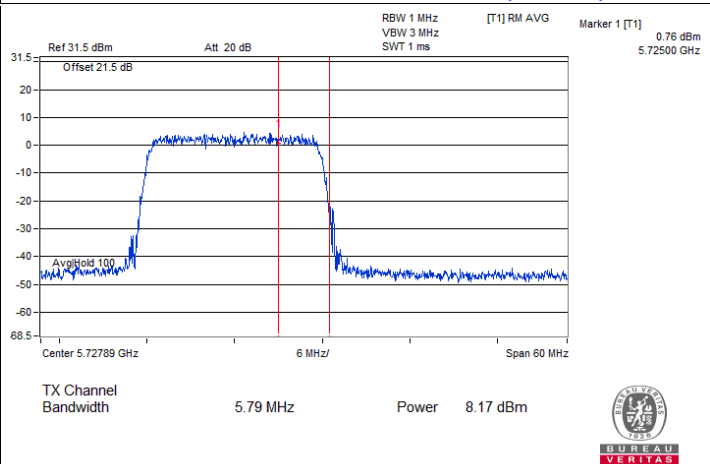
802.11a CDD / Chain 3 : CH 144 (U-NII-2C)



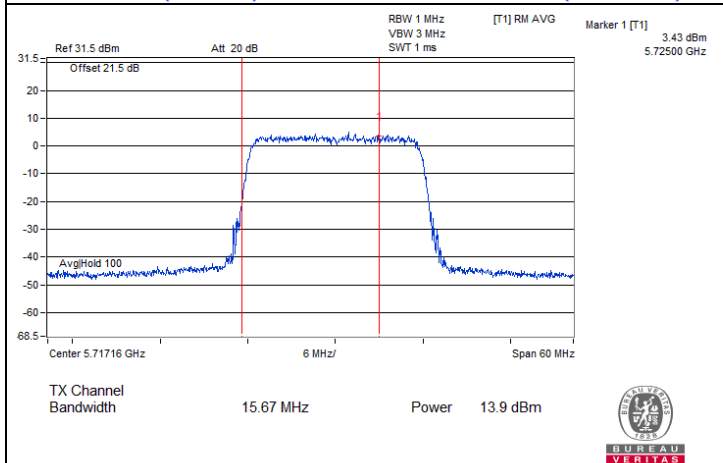
802.11a CDD / Chain 3 : CH 144 (U-NII-3)



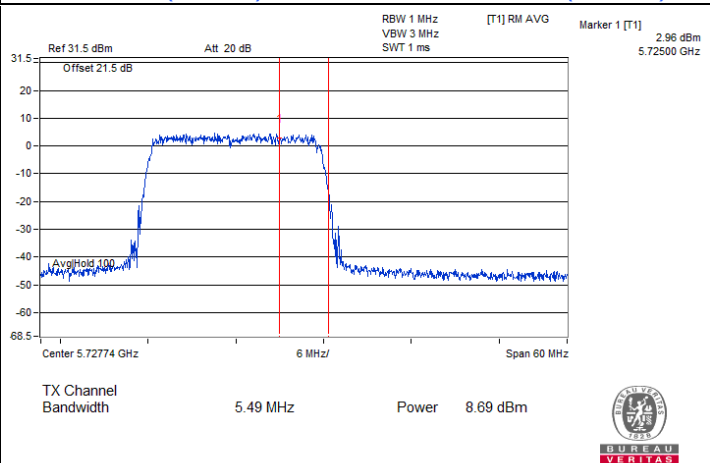
802.11ac (VHT20) CDD / Chain 0 : CH 144 (U-NII-2C)



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

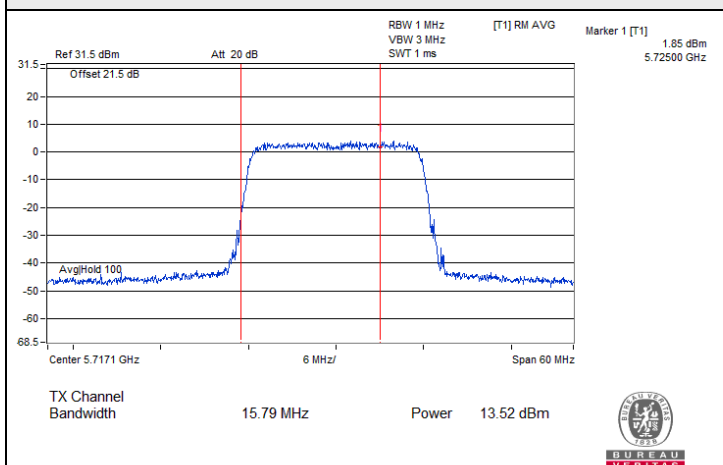


802.11ac (VHT20) CDD / Chain 1 : CH 144 (U-NII-2C)

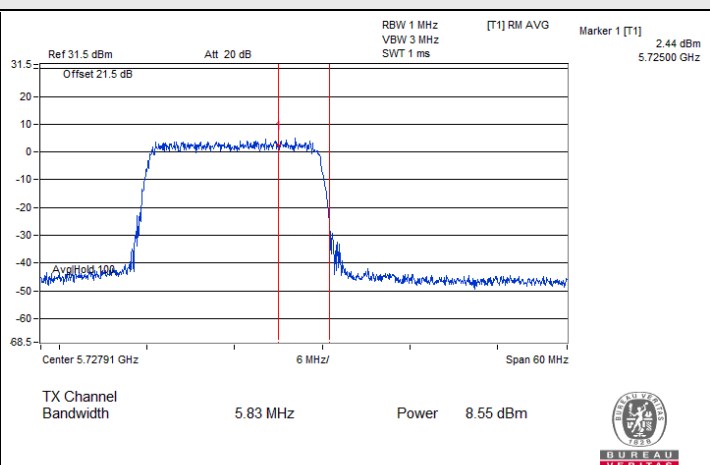


802.11ac (VHT20) CDD / Chain 1 : CH 144 (U-NII-3)

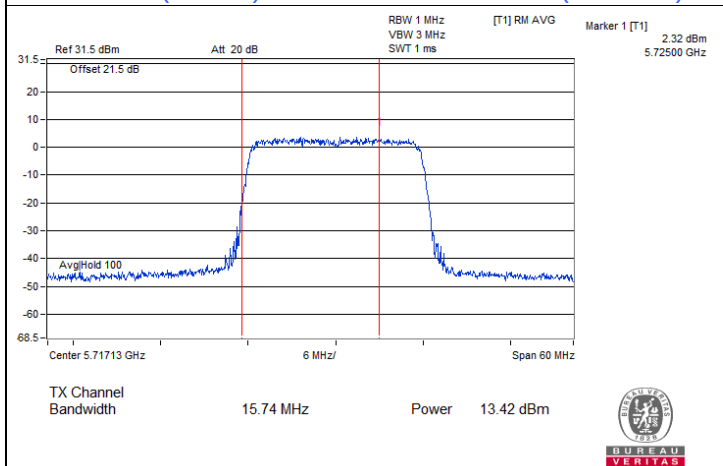
Spectrum Plot for channel straddling



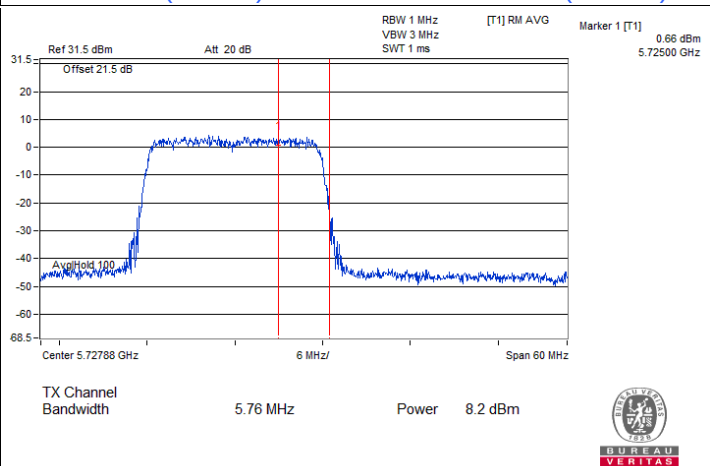
802.11ac (VHT20) CDD / Chain 2 : CH 144 (U-NII-2C)



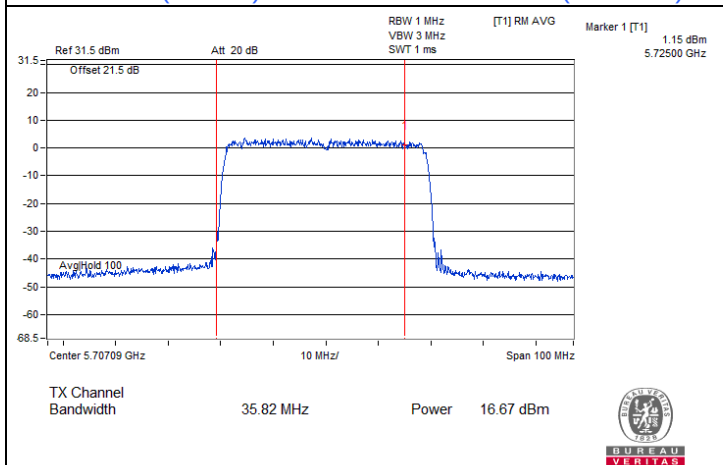
802.11ac (VHT20) CDD / Chain 2 : CH 144 (U-NII-3)



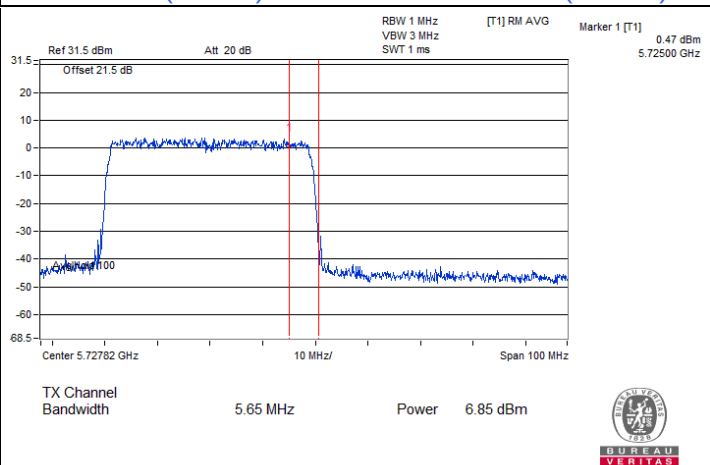
802.11ac (VHT20) CDD / Chain 3 : CH 144 (U-NII-2C)



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

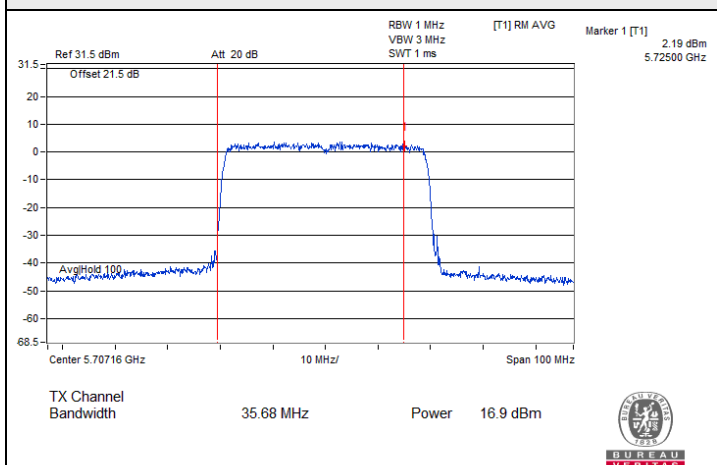


802.11ac (VHT40) CDD / Chain 0 : CH 142 (U-NII-2C)

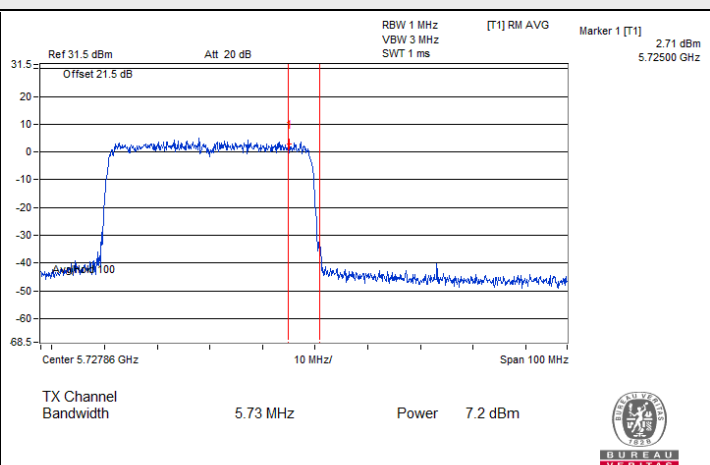


802.11ac (VHT40) CDD / Chain 0 : CH 142 (U-NII-3)

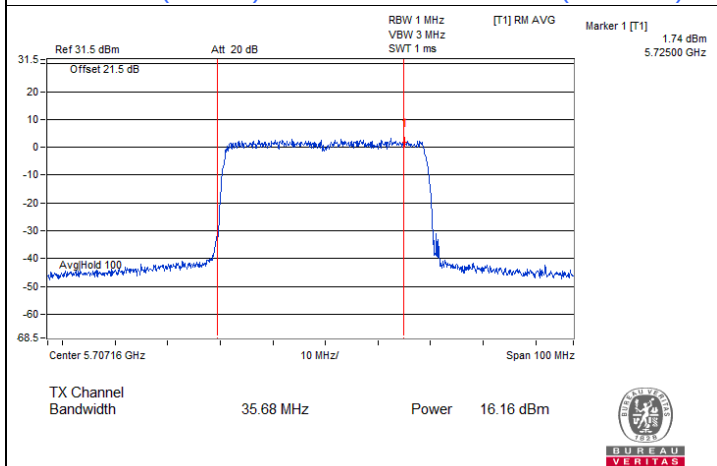
Spectrum Plot for channel straddling



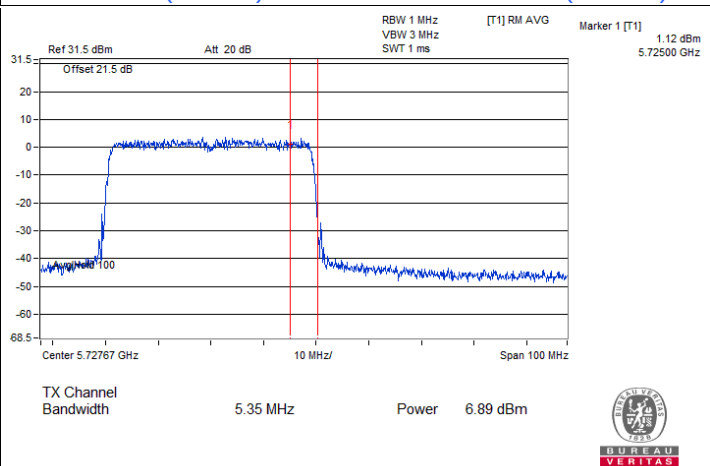
802.11ac (VHT40) CDD / Chain 1 : CH 142 (U-NII-2C)



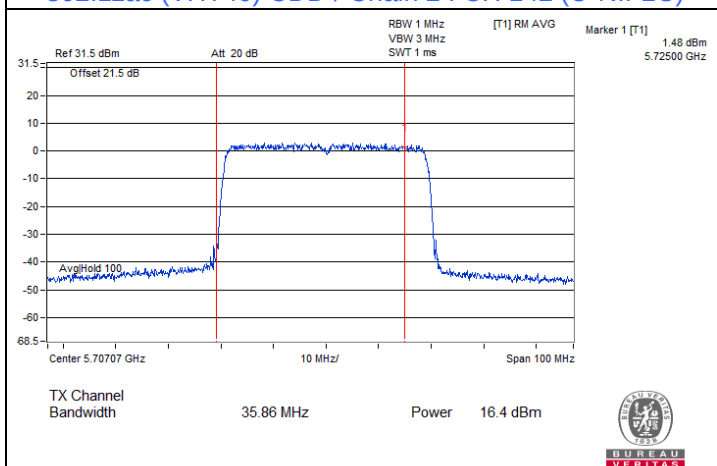
802.11ac (VHT40) CDD / Chain 1 : CH 142 (U-NII-3)



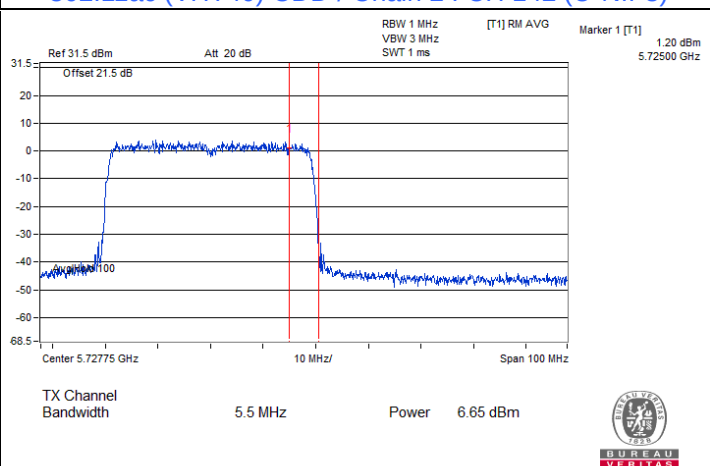
802.11ac (VHT40) CDD / Chain 2 : CH 142 (U-NII-2C)



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

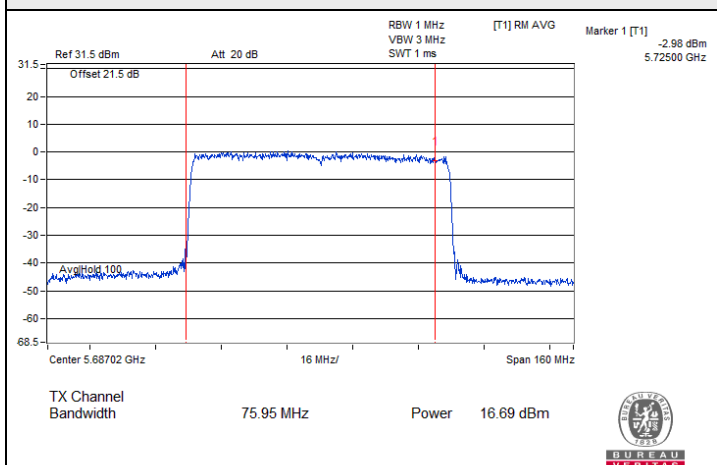


802.11ac (VHT40) CDD / Chain 3 : CH 142 (U-NII-2C)

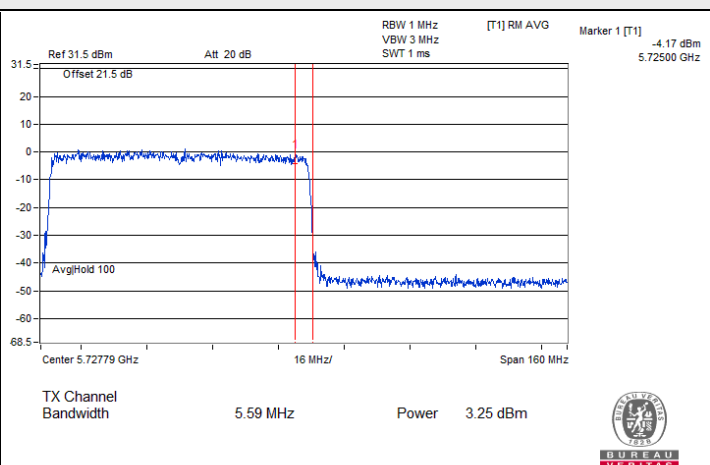


802.11ac (VHT40) CDD / Chain 3 : CH 142 (U-NII-3)

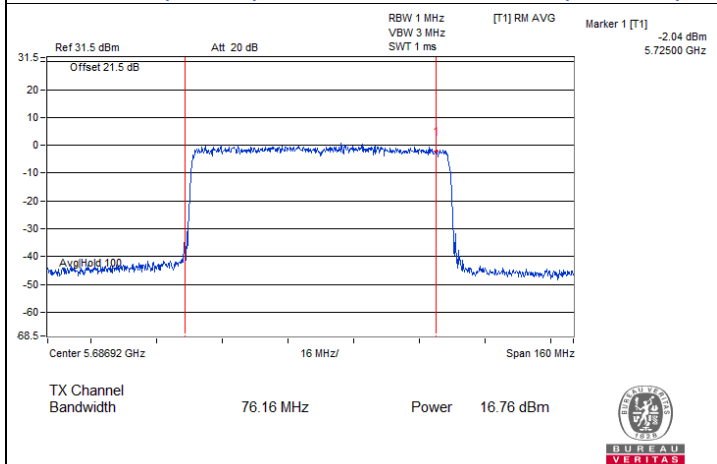
Spectrum Plot for channel straddling



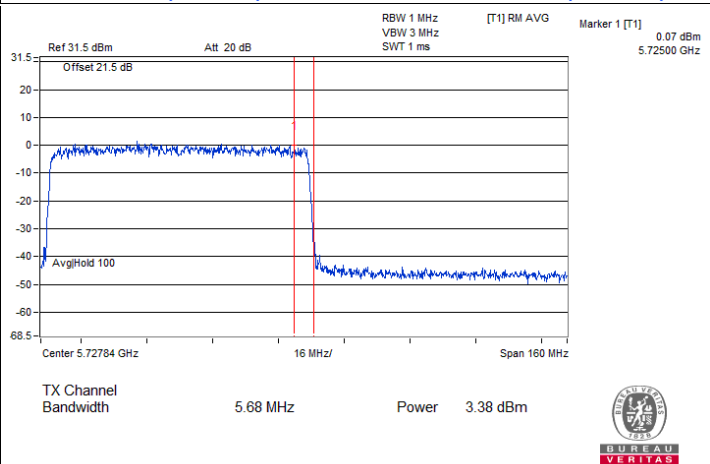
802.11ac (VHT80) CDD / Chain 0 : CH 138 (U-NII-2C)



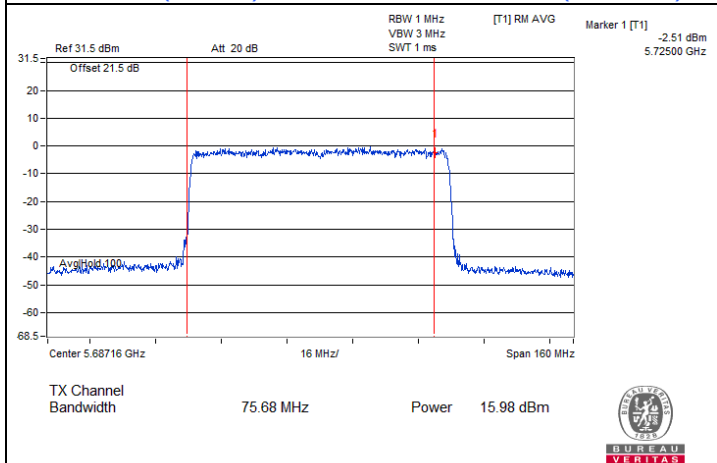
802.11ac (VHT80) CDD / Chain 0 : CH 138 (U-NII-3)



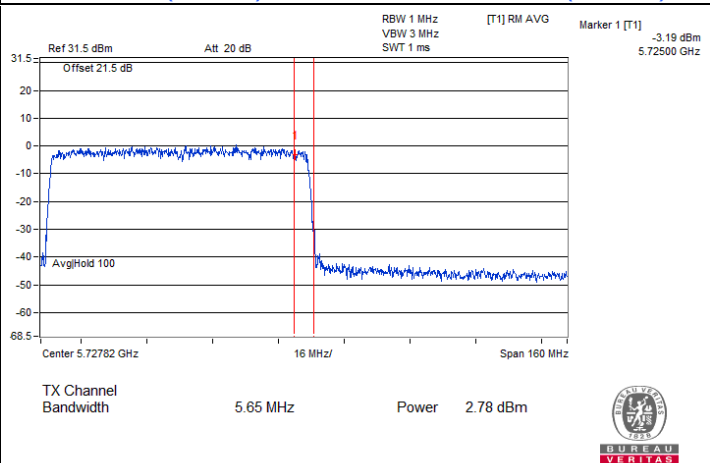
802.11ac (VHT80) CDD / Chain 1 : CH 138 (U-NII-2C)



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

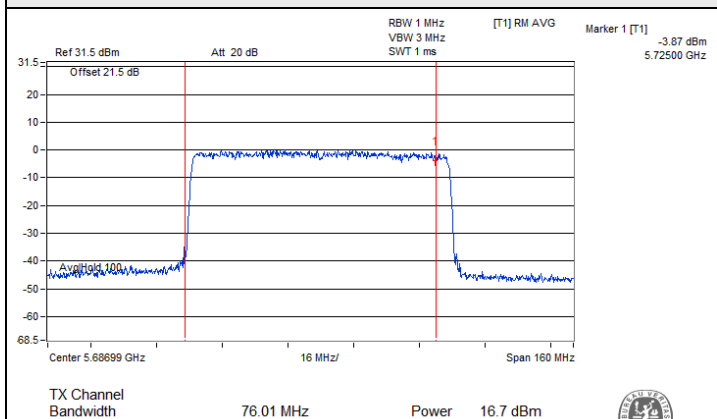


802.11ac (VHT80) CDD / Chain 2 : CH 138 (U-NII-2C)

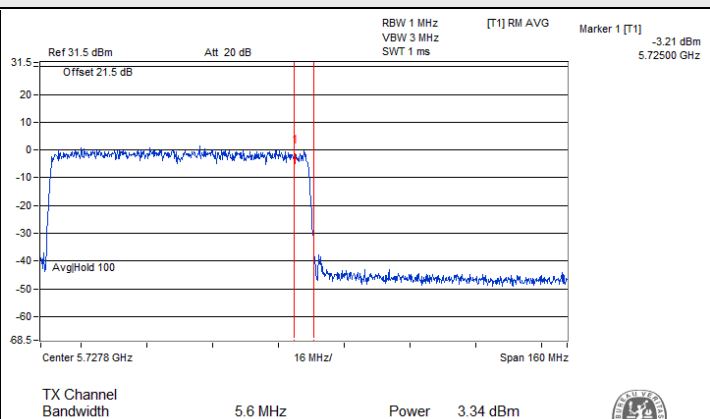


802.11ac (VHT80) CDD / Chain 2 : CH 138 (U-NII-3)

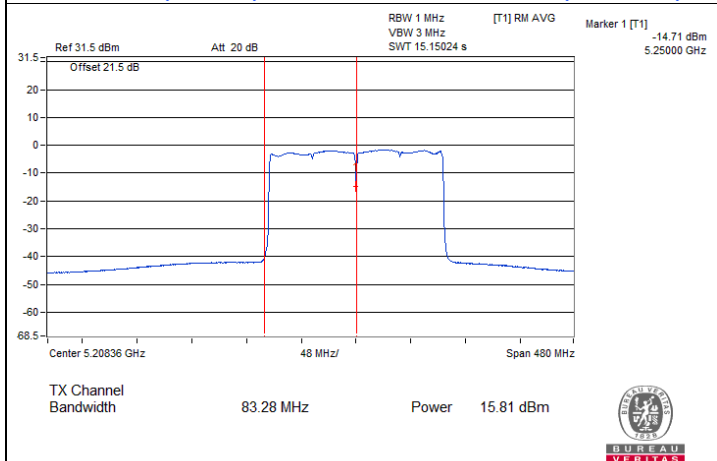
Spectrum Plot for channel straddling



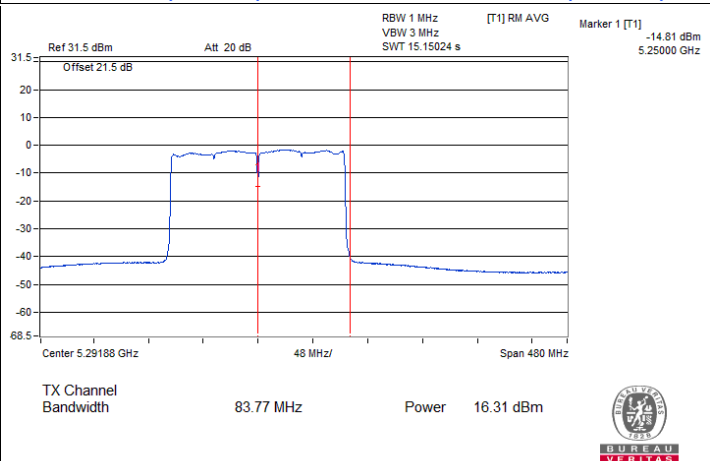
802.11ac (VHT80) CDD / Chain 3 : CH 138 (U-NII-2C)



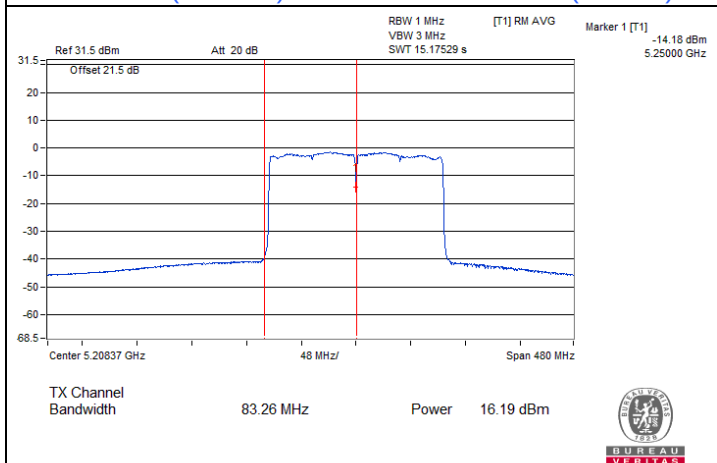
802.11ac (VHT80) CDD / Chain 3 : CH 138 (U-NII-3)



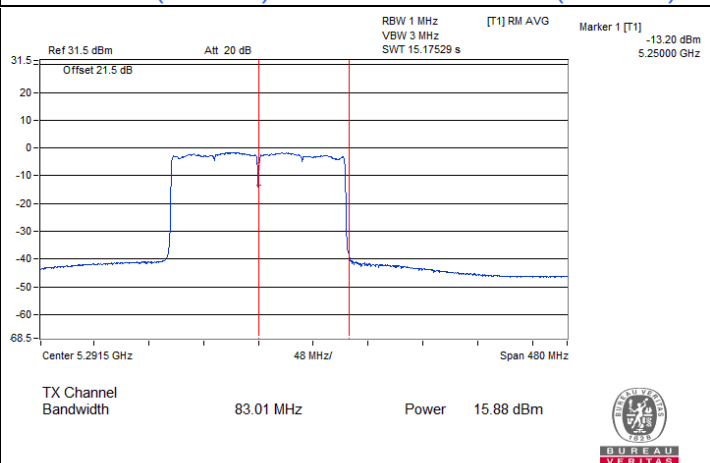
802.11ac (VHT160) CDD / Chain 0 : CH 50 (U-NII-1)



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

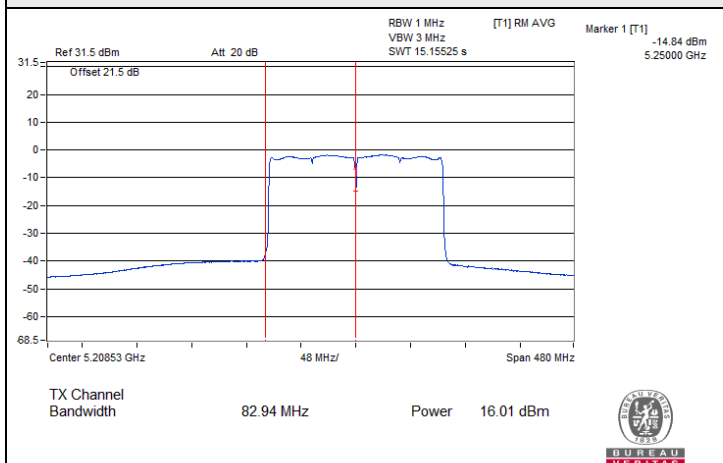


802.11ac (VHT160) CDD / Chain 1 : CH 50 (U-NII-1)

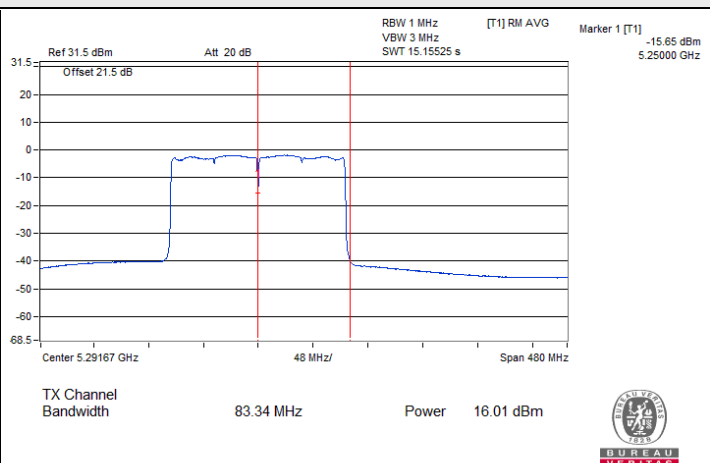


802.11ac (VHT160) CDD / Chain 1 : CH 50 (U-NII-2A)

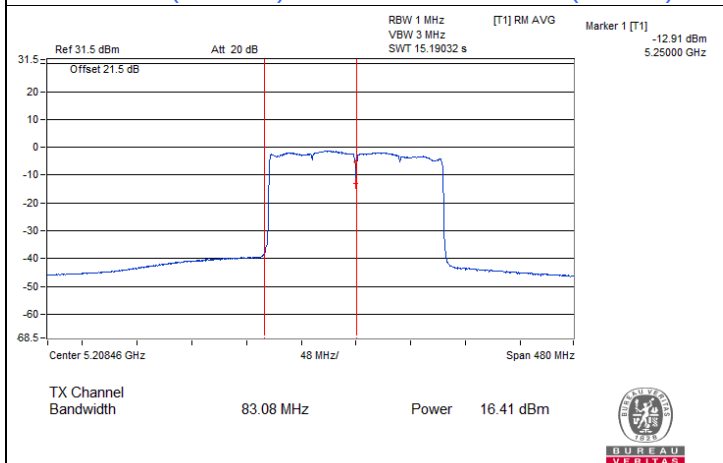
Spectrum Plot for channel straddling



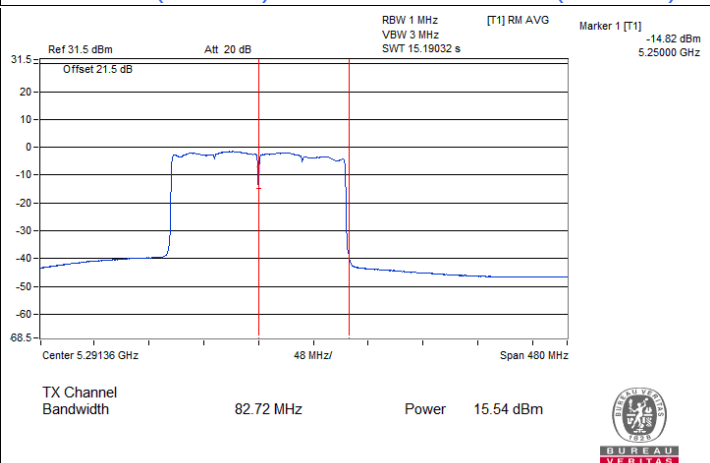
802.11ac (VHT160) CDD / Chain 2 : CH 50 (U-NII-1)



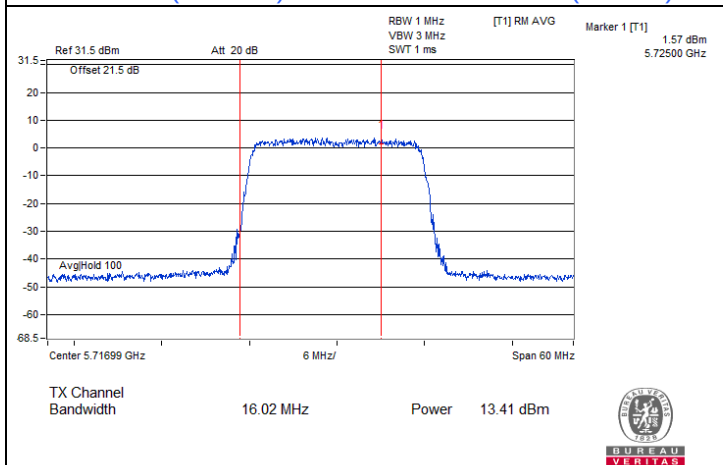
802.11ac (VHT160) CDD / Chain 2 : CH 50 (U-NII-2A)



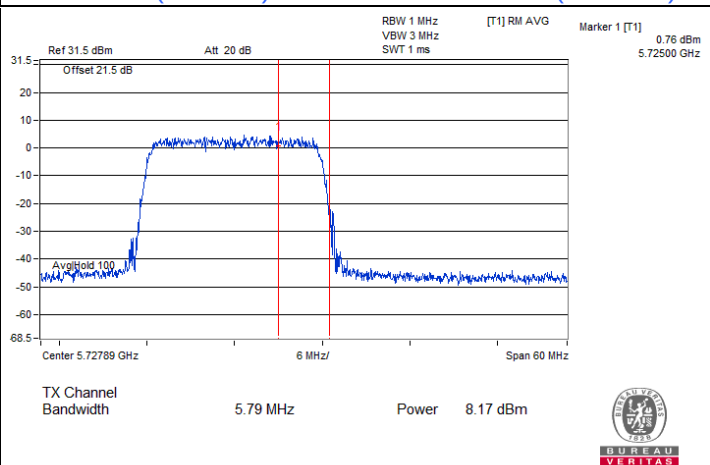
802.11ac (VHT160) CDD / Chain 3 : CH 50 (U-NII-1)



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

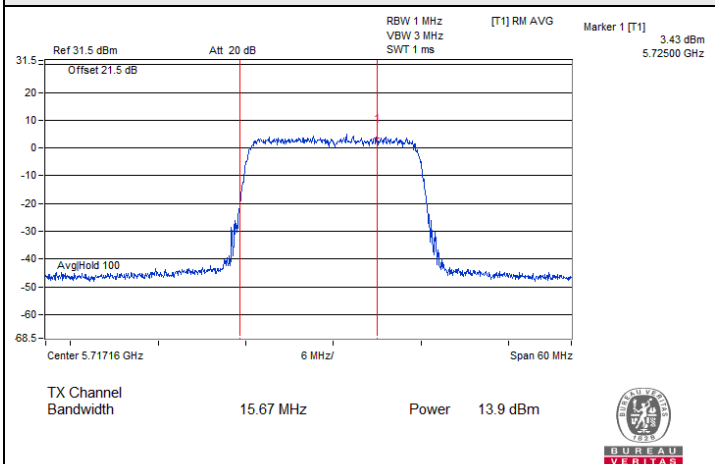


802.11ax (HE20) CDD / Chain 0 : CH 144 (U-NII-2C)

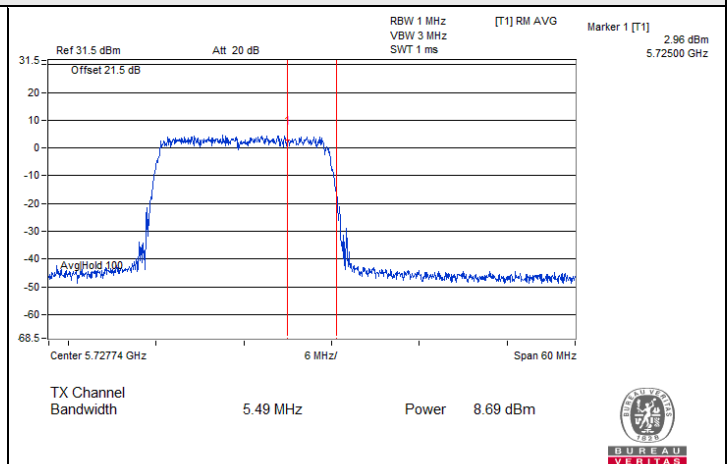


802.11ax (HE20) CDD / Chain 0 : CH 144 (U-NII-3)

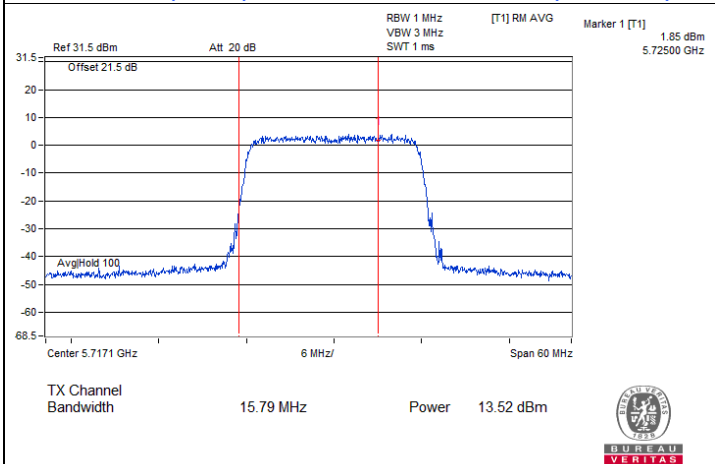
Spectrum Plot for channel straddling



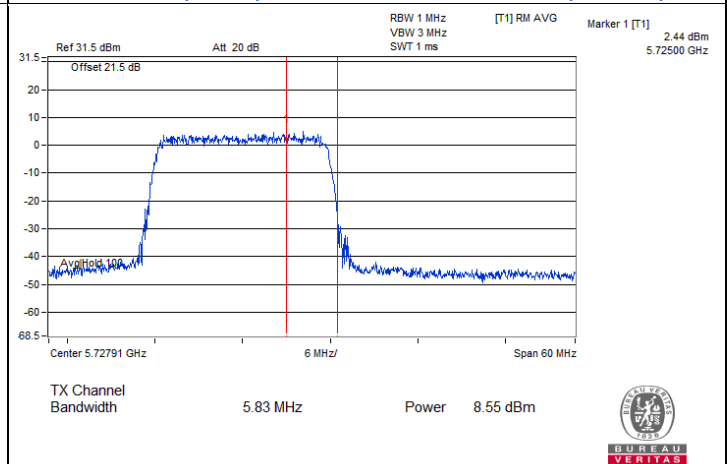
802.11ax (HE20) CDD / Chain 1 : CH 144 (U-NII-2C)



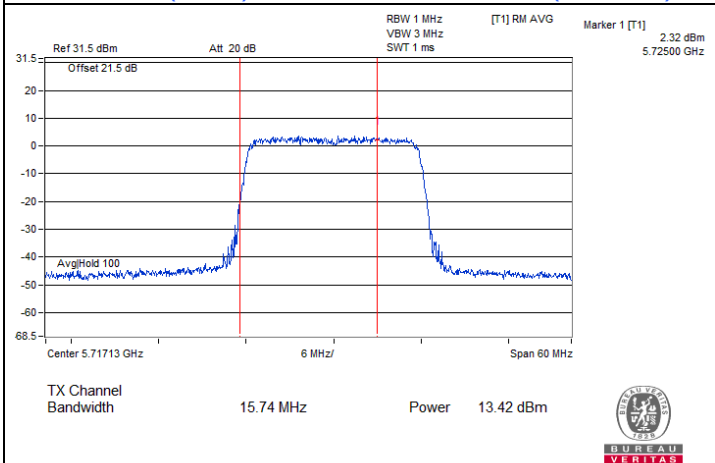
802.11ax (HE20) CDD / Chain 1 : CH 144 (U-NII-3)



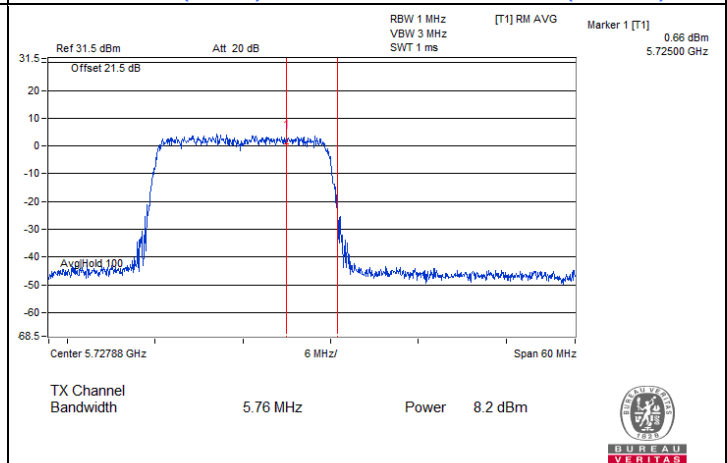
802.11ax (HE20) CDD / Chain 2 : CH 144 (U-NII-2C)



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

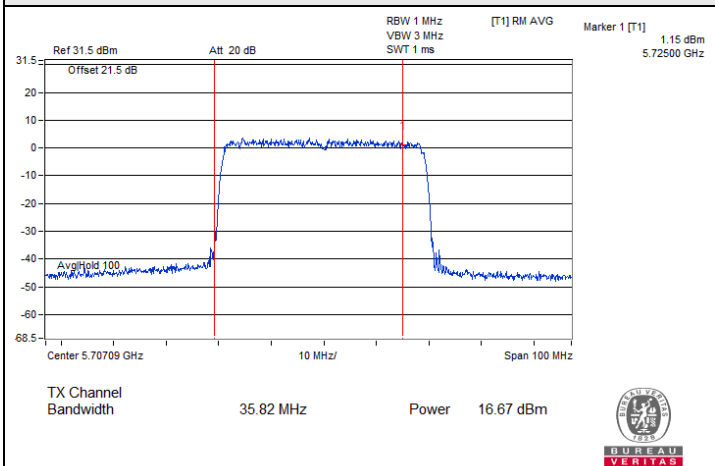


802.11ax (HE20) CDD / Chain 3 : CH 144 (U-NII-2C)

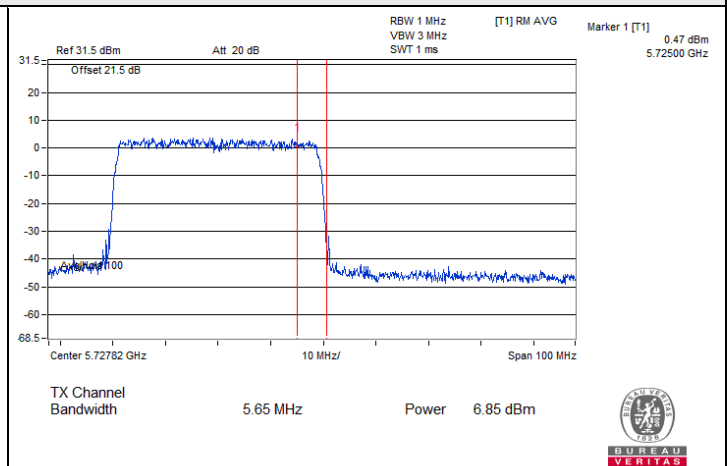


802.11ax (HE20) CDD / Chain 3 : CH 144 (U-NII-3)

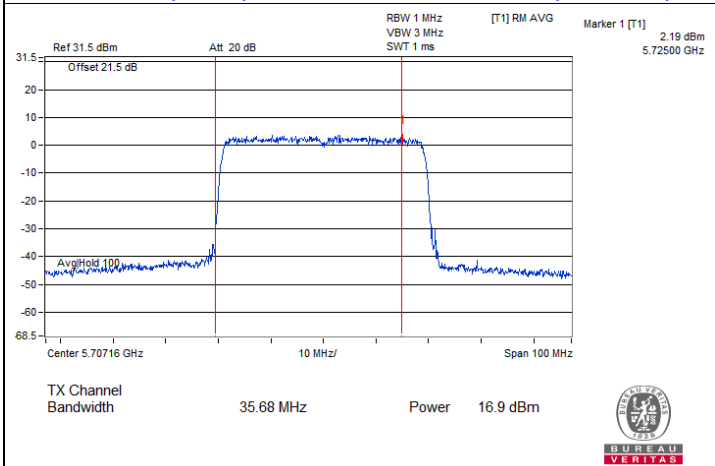
Spectrum Plot for channel straddling



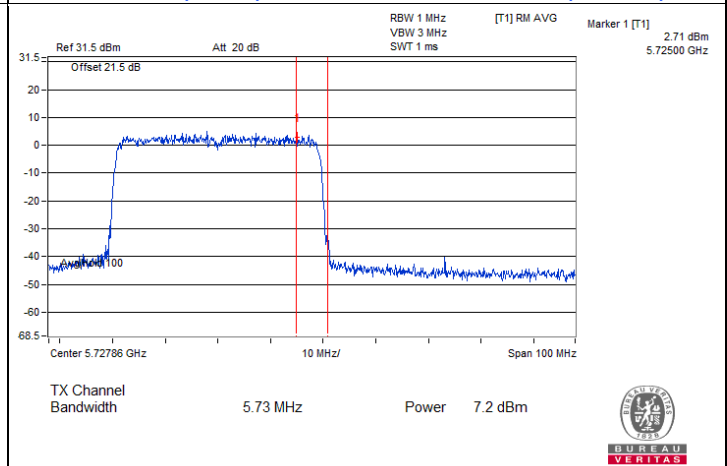
802.11ax (HE40) CDD / Chain 0 : CH 142 (U-NII-2C)



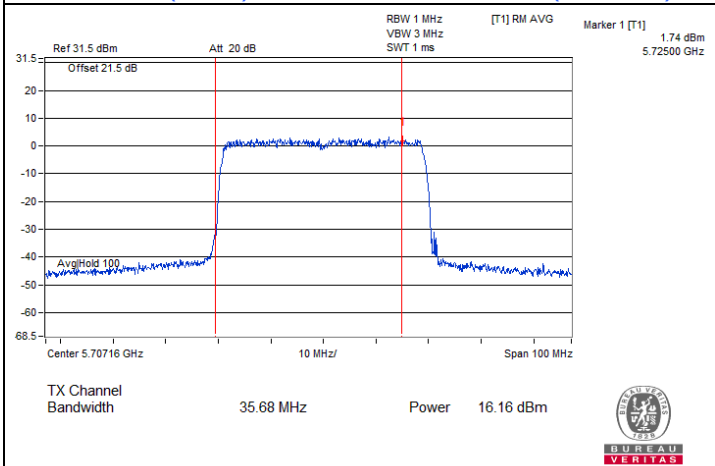
802.11ax (HE40) CDD / Chain 0 : CH 142 (U-NII-3)



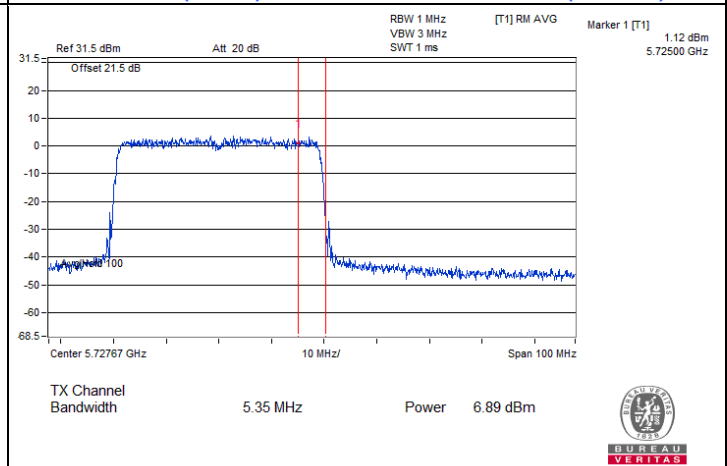
802.11ax (HE40) CDD / Chain 1 : CH 142 (U-NII-2C)



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

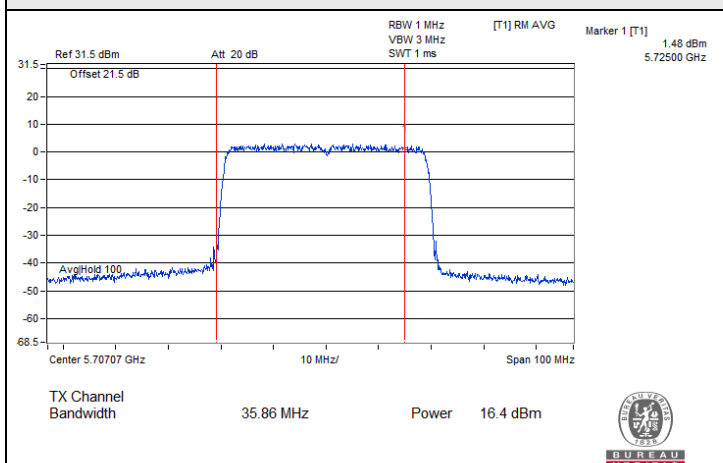


802.11ax (HE40) CDD / Chain 2 : CH 142 (U-NII-2C)

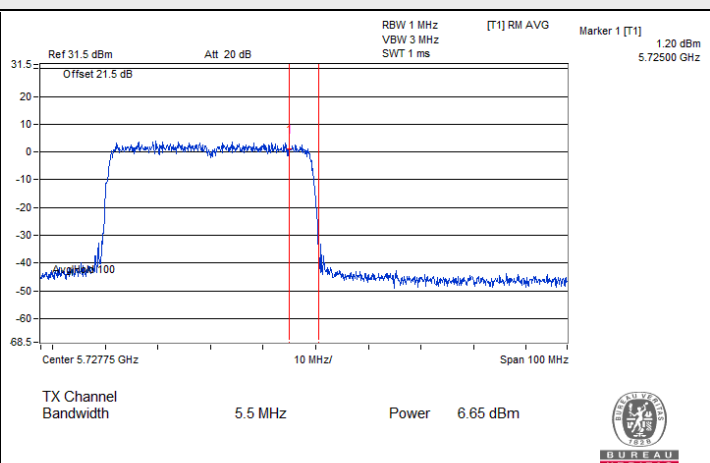


802.11ax (HE40) CDD / Chain 2 : CH 142 (U-NII-3)

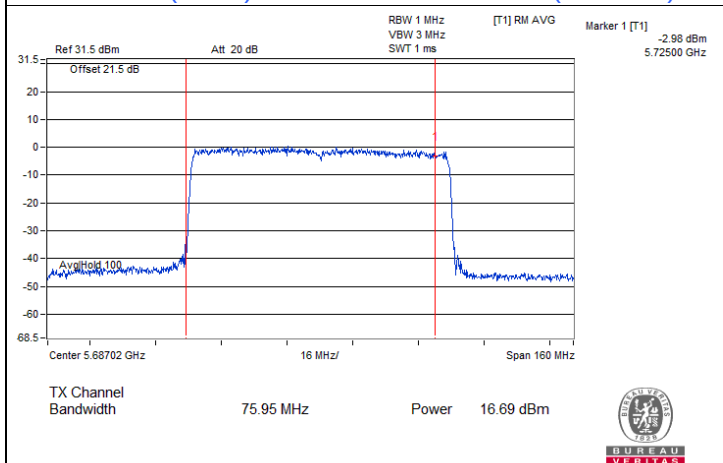
Spectrum Plot for channel straddling



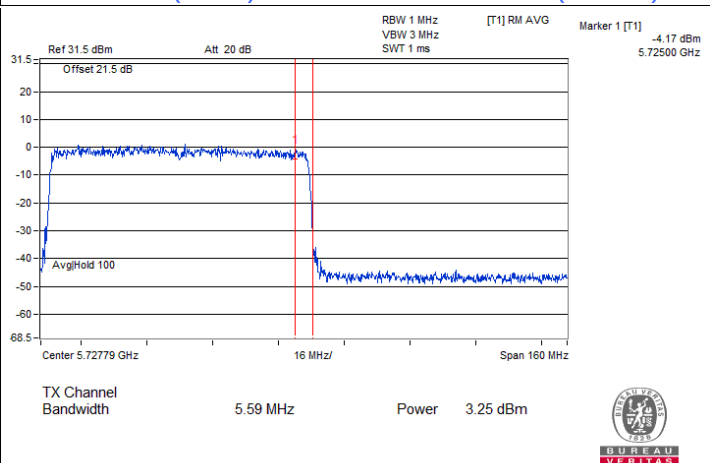
802.11ax (HE40) CDD / Chain 3 : CH 142 (U-NII-2C)



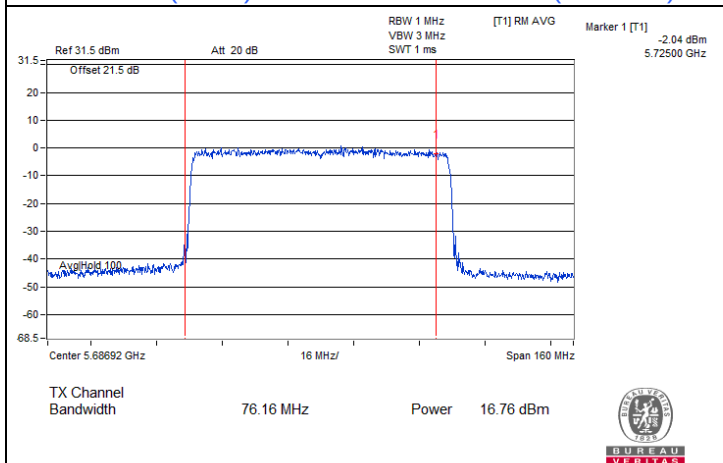
802.11ax (HE40) CDD / Chain 3 : CH 142 (U-NII-3)



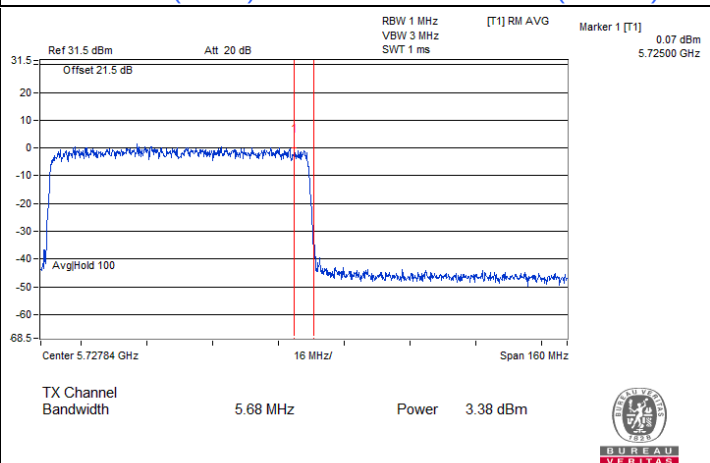
802.11ax (HE80) CDD / Chain 0 : CH 138 (U-NII-2C)



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

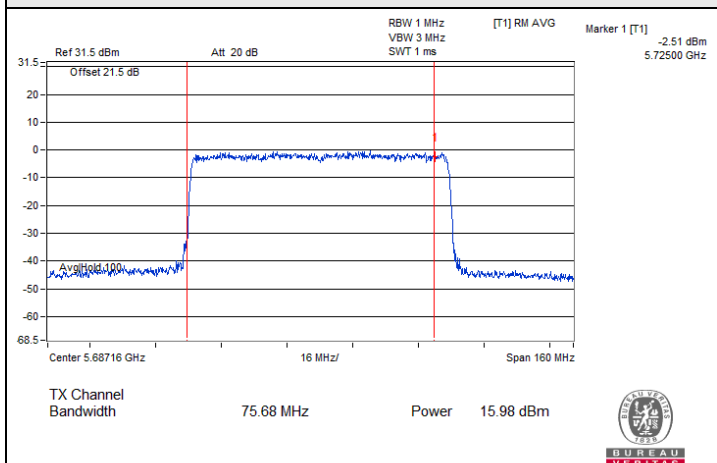


802.11ax (HE80) CDD / Chain 1 : CH 138 (U-NII-2C)

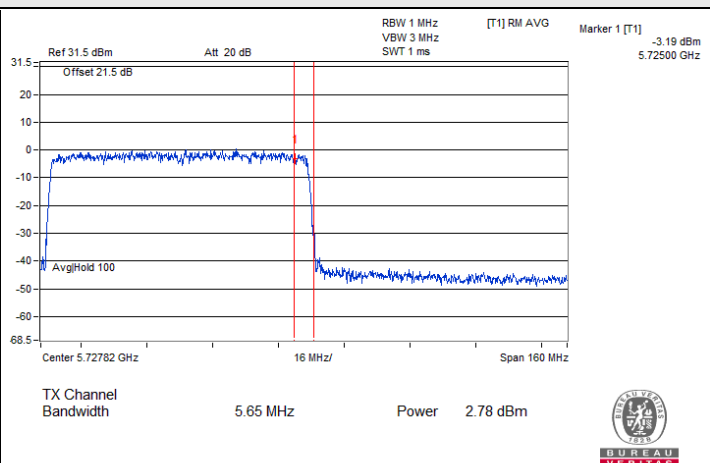


802.11ax (HE80) CDD / Chain 1 : CH 138 (U-NII-3)

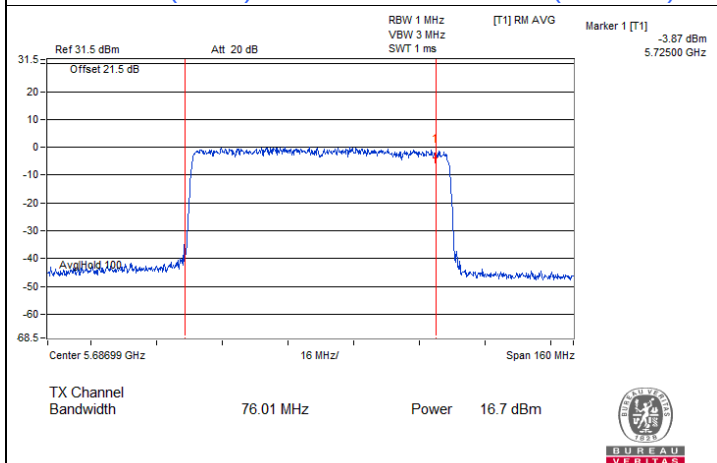
Spectrum Plot for channel straddling



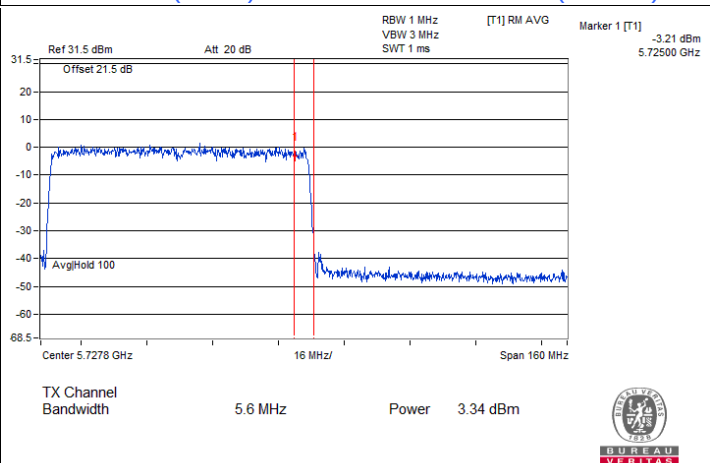
802.11ax (HE80) CDD / Chain 2 : CH 138 (U-NII-2C)



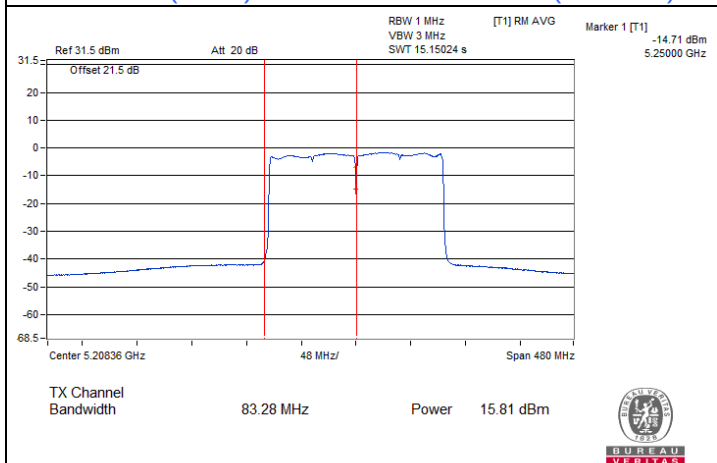
802.11ax (HE80) CDD / Chain 2 : CH 138 (U-NII-3)



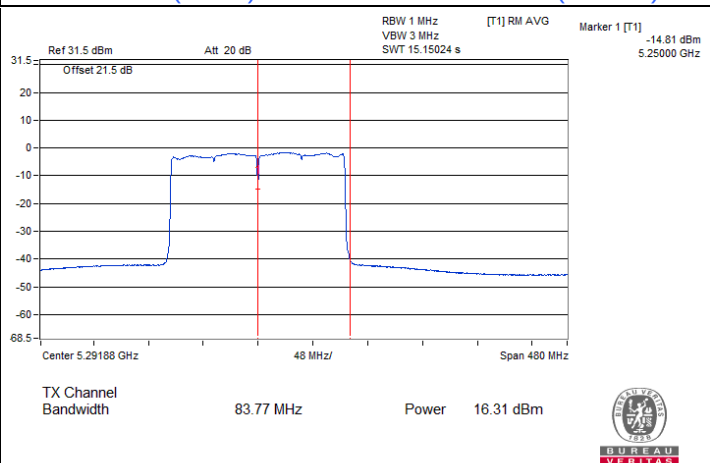
802.11ax (HE80) CDD / Chain 3 : CH 138 (U-NII-2C)



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

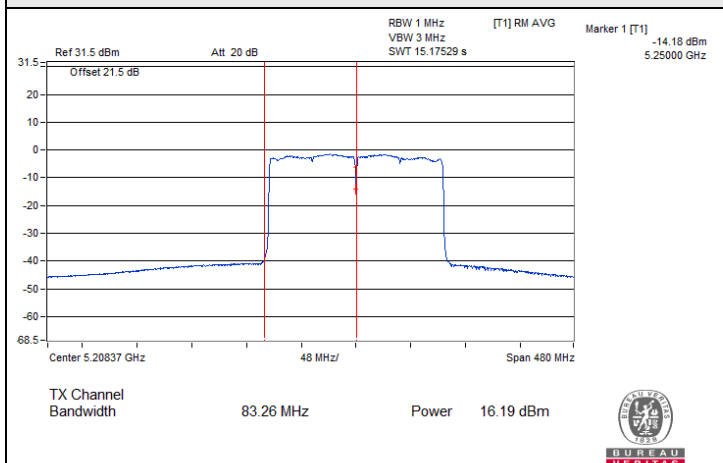


802.11ax (HE160) CDD / Chain 0 : CH 50 (U-NII-1)

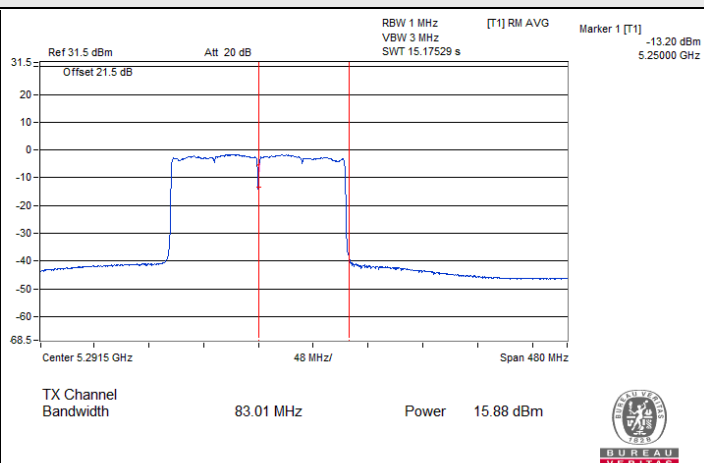


802.11ax (HE160) CDD / Chain 0 : CH 50 (U-NII-2A)

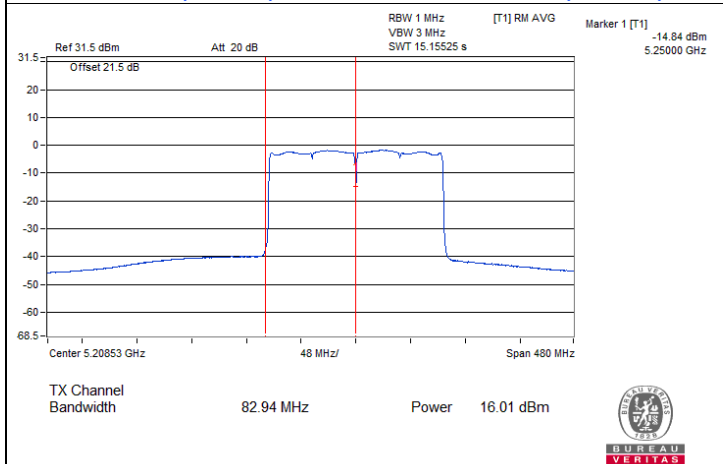
Spectrum Plot for channel straddling



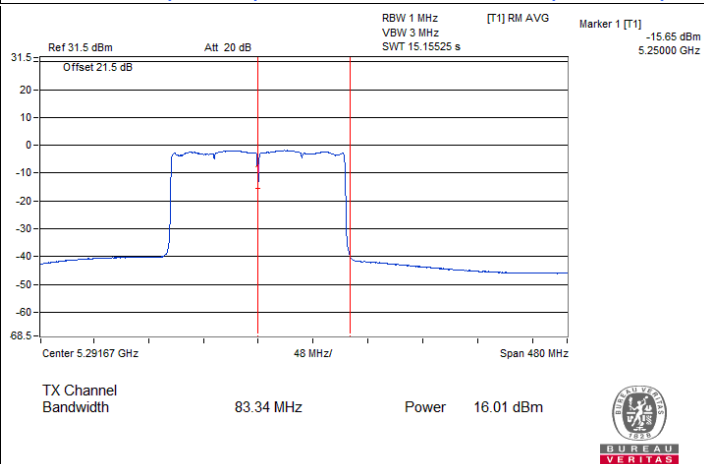
802.11ax (HE160) CDD / Chain 1 : CH 50 (U-NII-1)



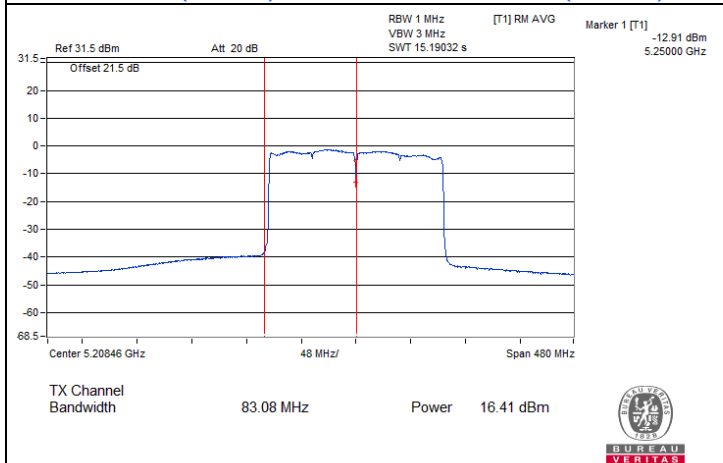
802.11ax (HE160) CDD / Chain 1 : CH 50 (U-NII-2A)



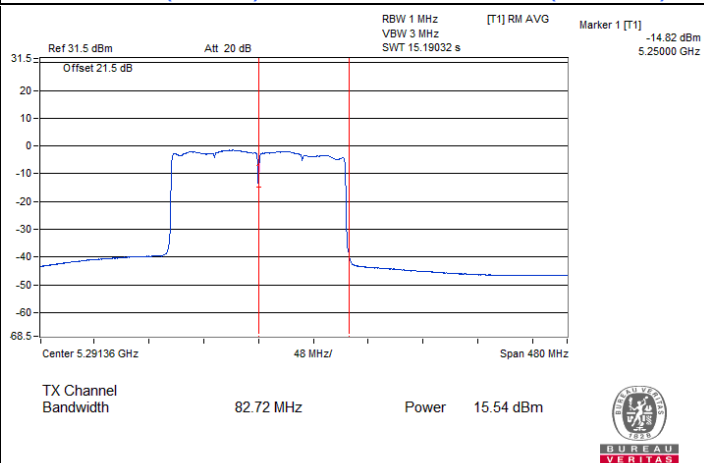
802.11ax (HE160) CDD / Chain 2 : CH 50 (U-NII-1)



802.11ax (HE160) CDD / Chain 2 : CH 50 (U-NII-2A)



802.11ax (HE160) CDD / Chain 3 : CH 50 (U-NII-1)



802.11ax (HE160) CDD / Chain 3 : CH 50 (U-NII-2A)

7.3 Power Spectral Density

Input Power:	120 Vac, 60 Hz	Environmental Conditions:	25°C, 60% RH	Tested By:	John Peng
--------------	----------------	---------------------------	--------------	------------	-----------

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	7.14	6.85	7.21	6.52	12.96	13.33	Pass
40	5200	7.14	7.15	6.83	6.81	13.01	13.33	Pass
48	5240	7.26	7.04	6.87	6.69	12.99	13.33	Pass
52	5260	0.73	1.82	1.35	1.02	7.27	7.35	Pass
60	5300	1.41	1.52	0.98	1.28	7.32	7.35	Pass
64	5320	1.21	1.78	1.17	0.89	7.30	7.35	Pass
100	5500	1.19	1.29	1.21	1.18	7.24	7.25	Pass
116	5580	0.92	0.74	1.11	1.59	7.12	7.25	Pass
140	5700	1.00	1.67	0.78	0.93	7.13	7.25	Pass
144 (U-NII-2C)	5720	0.82	1.24	0.88	0.79	6.96	7.25	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 = $10 \log[(10^{\text{Chain0}/20} + 10^{\text{Chain1}/20} + 10^{\text{Chain2}/20} + 10^{\text{Chain3}/20})^2 / 4]$
- For U-NII-1, the directional gain is 9.67 dBi > 6dBi, so the power density limit shall be reduced to $17-(9.67-6) = 13.33$ dBm/MHz.
- For U-NII-2A, the directional gain is 9.65 dBi > 6 dBi, so the power density limit shall be reduced to $11-(9.65-6) = 7.35$ dBm/MHz.
- For U-NII-2C, the directional gain is 9.75 dBi > 6 dBi, so the power density limit shall be reduced to $11-(9.75-6) = 7.25$ 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			
36	5180	6.83	7.22	6.43	6.90	12.87	13.33	Pass
40	5200	7.13	7.23	6.62	7.02	13.03	13.33	Pass
48	5240	6.86	7.26	6.80	6.81	12.96	13.33	Pass
52	5260	0.86	1.52	1.05	1.02	7.14	7.35	Pass
60	5300	1.19	1.44	0.89	0.79	7.11	7.35	Pass
64	5320	1.03	1.28	0.66	0.62	6.93	7.35	Pass
100	5500	0.90	0.85	0.78	1.00	6.90	7.25	Pass
116	5580	0.88	0.93	1.08	0.75	6.93	7.25	Pass
140	5700	1.21	1.16	0.76	0.83	7.02	7.25	Pass
144 (U-NII-2C)	5720	0.65	1.20	0.73	0.55	6.81	7.25	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 = $10 \log[(10^{\text{Chain0}/20} + 10^{\text{Chain1}/20} + 10^{\text{Chain2}/20} + 10^{\text{Chain3}/20})^2 / 4]$
- For U-NII-1, the directional gain is 9.67 dBi > 6dBi, so the power density limit shall be reduced to $17-(9.67-6) = 13.33$ dBm/MHz.
- For U-NII-2A, the directional gain is 9.65 dBi > 6 dBi, so the power density limit shall be reduced to $11-(9.65-6) = 7.35$ dBm/MHz.
- For U-NII-2C, the directional gain is 9.75 dBi > 6 dBi, so the power density limit shall be reduced to $11-(9.75-6) = 7.25$ 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			
38	5190	1.21	0.97	0.82	0.98	7.02	13.33	Pass
46	5230	5.59	5.33	5.40	5.81	11.56	13.33	Pass
54	5270	0.99	1.15	1.40	0.78	7.11	7.35	Pass
62	5310	1.03	1.01	0.96	1.06	7.04	7.35	Pass
102	5510	1.20	0.73	0.94	0.58	6.89	7.25	Pass
110	5550	1.25	1.43	1.11	0.86	7.19	7.25	Pass
134	5670	1.33	1.58	0.91	1.02	7.24	7.25	Pass
142 (U-NII-2C)	5710	1.38	1.38	0.82	1.16	7.21	7.25	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 = $10 \log[(10^{\text{Chain0}/20} + 10^{\text{Chain1}/20} + 10^{\text{Chain2}/20} + 10^{\text{Chain3}/20})^2 / 4]$
- For U-NII-1, the directional gain is 9.67 dBi > 6dBi, so the power density limit shall be reduced to $17-(9.67-6) = 13.33$ dBm/MHz.
- For U-NII-2A, the directional gain is 9.65 dBi > 6 dBi, so the power density limit shall be reduced to $11-(9.65-6) = 7.35$ dBm/MHz.
- For U-NII-2C, the directional gain is 9.75 dBi > 6 dBi, so the power density limit shall be reduced to $11-(9.75-6) = 7.25$ 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			
42	5210	-2.32	-2.60	-2.72	-2.23	3.56	13.33	Pass
58	5290	-1.36	-1.52	-1.23	-1.51	4.62	7.35	Pass
106	5530	-1.42	-1.96	-1.30	-1.92	4.38	7.25	Pass
122	5610	-1.27	-1.36	-1.64	-1.72	4.53	7.25	Pass
138 (U-NII-2C)	5690	-1.22	-1.52	-1.91	-1.55	4.48	7.25	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 = $10 \log[(10^{\text{Chain0}/20} + 10^{\text{Chain1}/20} + 10^{\text{Chain2}/20} + 10^{\text{Chain3}/20})^2 / 4]$
- For U-NII-1, the directional gain is 9.67 dBi > 6dBi, so the power density limit shall be reduced to $17-(9.67-6) = 13.33$ dBm/MHz.
- For U-NII-2A, the directional gain is 9.65 dBi > 6 dBi, so the power density limit shall be reduced to $11-(9.65-6) = 7.35$ dBm/MHz.
- For U-NII-2C, the directional gain is 9.75 dBi > 6 dBi, so the power density limit shall be reduced to $11-(9.75-6) = 7.25$ 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			
50 (U-NII-1)	5250	-4.88	-5.40	-5.29	-4.53	1.01	13.33	Pass
50 (U-NII-2A)	5250	-4.40	-5.56	-5.18	-5.10	0.98	7.35	Pass
114	5570	-4.59	-4.55	-4.67	-4.89	1.35	7.25	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 = $10 \log[(10^{\text{Chain0}/20} + 10^{\text{Chain1}/20} + 10^{\text{Chain2}/20} + 10^{\text{Chain3}/20})^2 / 4]$
- For U-NII-1, the directional gain is 9.67 dBi > 6dBi, so the power density limit shall be reduced to $17 - (9.67 - 6) = 13.33$ dBm/MHz.
- For U-NII-2A, the directional gain is 9.65 dBi > 6 dBi, so the power density limit shall be reduced to $11 - (9.65 - 6) = 7.35$ dBm/MHz.
- For U-NII-2C, the directional gain is 9.75 dBi > 6 dBi, so the power density limit shall be reduced to $11 - (9.75 - 6) = 7.25$ 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	-3.62	-3.50	-3.72	-3.69	2.39	4.61	26.25	Pass
149	5745	5.00	4.42	3.94	4.00	10.38	12.60	26.25	Pass
157	5785	4.78	4.14	3.75	3.49	10.09	12.31	26.25	Pass
165	5825	3.51	2.83	2.17	2.01	8.69	10.91	26.25	Pass

Notes:

- Method E) 2) b) Measure and sum spectral maxima across the outputs of KDB 662911 is using for calculating total power density.
- Directional gain = $10 \log[(10^{\text{Chain0}/20} + 10^{\text{Chain1}/20} + 10^{\text{Chain2}/20} + 10^{\text{Chain3}/20})^2 / 4]$
- For U-NII-3, the directional gain is 9.75 dBi > 6 dBi, so the power density limit shall be reduced to $30 - (9.75 - 6) = 26.25$ 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	-4.21	-3.88	-4.26	-4.26	1.87	4.09	26.25	Pass
149	5745	4.30	4.34	3.84	3.85	10.11	12.33	26.25	Pass
157	5785	4.15	3.76	3.74	3.44	9.8	12.02	26.25	Pass
165	5825	3.07	2.67	1.91	1.77	8.41	10.63	26.25	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 = $10 \log[(10^{\text{Chain0/20}} + 10^{\text{Chain1/20}} + 10^{\text{Chain2/20}} + 10^{\text{Chain3/20}})^2 / 4]$
3. For U-NII-3, the directional gain is 9.75 dBi > 6 dBi, so the power density limit shall be reduced to $30 - (9.75 - 6) = 26.25$ 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	-4.68	-4.42	-4.66	-4.64	1.42	3.64	26.25	Pass
151	5755	2.02	1.20	1.27	1.82	7.61	9.83	26.25	Pass
159	5795	1.86	0.95	1.00	1.50	7.36	9.58	26.25	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 = $10 \log[(10^{\text{Chain0/20}} + 10^{\text{Chain1/20}} + 10^{\text{Chain2/20}} + 10^{\text{Chain3/20}})^2 / 4]$
3. For U-NII-3, the directional gain is 9.75 dBi > 6 dBi, so the power density limit shall be reduced to $30 - (9.75 - 6) = 26.25$ dBm/500kHz.

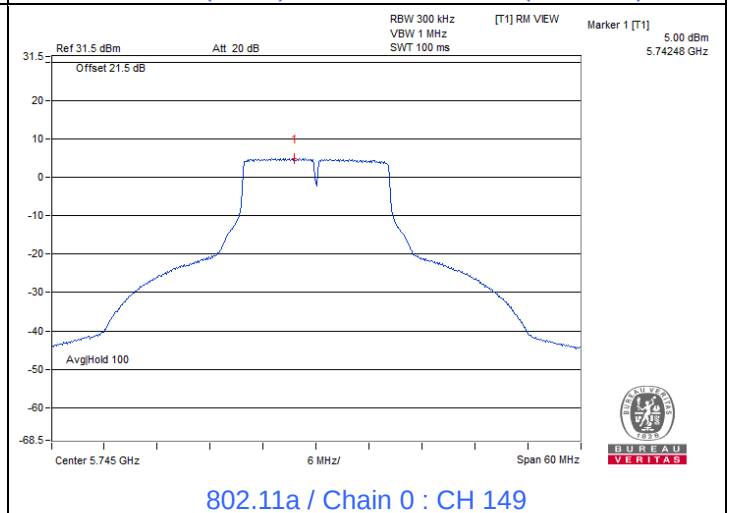
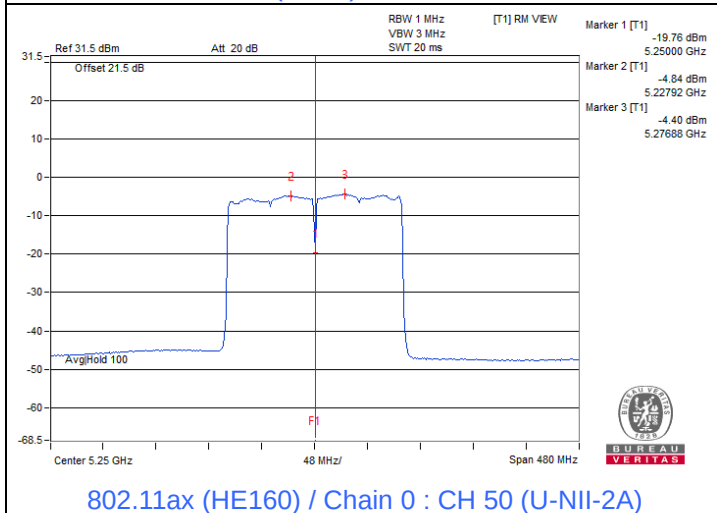
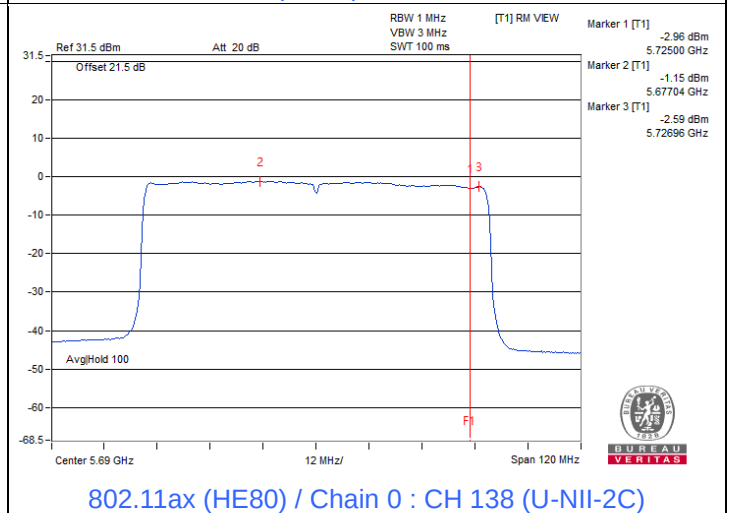
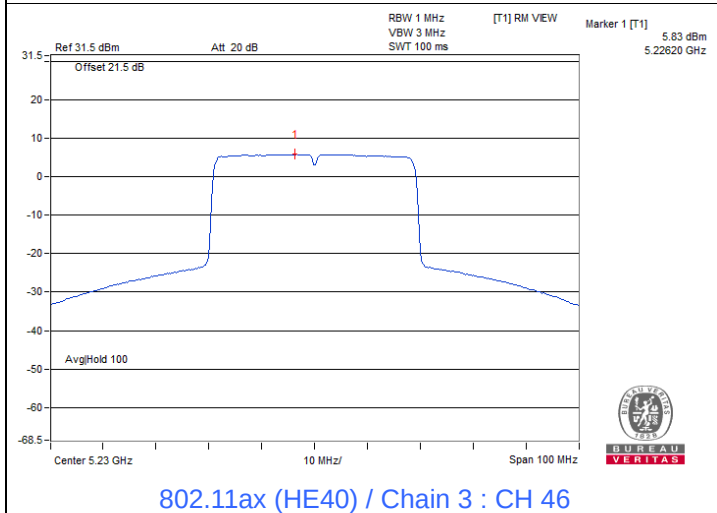
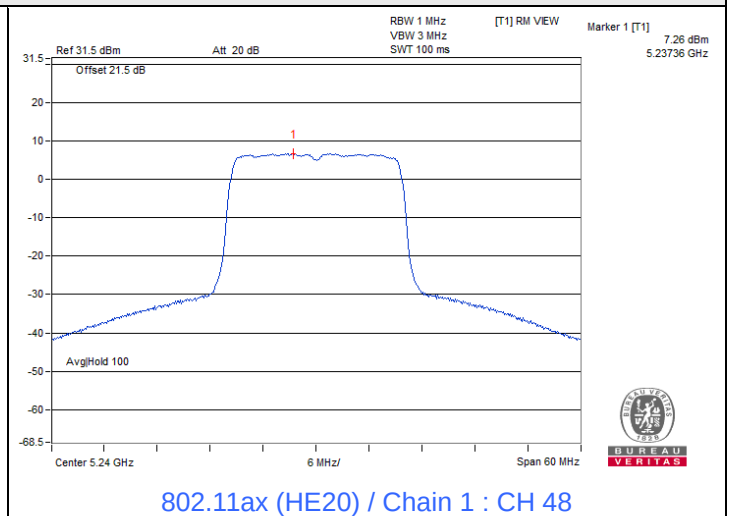
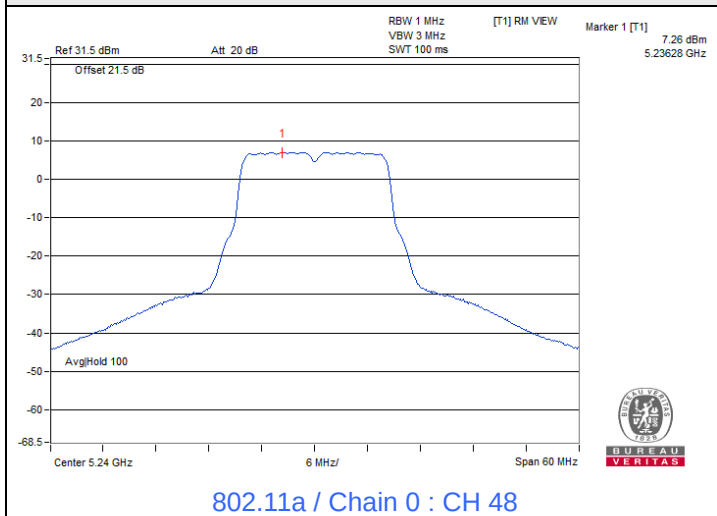
802.11ax (HE80)

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	-7.91	-7.50	-7.44	-7.87	-1.65	0.57	26.25	Pass
155	5775	-2.07	-2.68	-2.05	-2.63	3.67	5.89	26.25	Pass

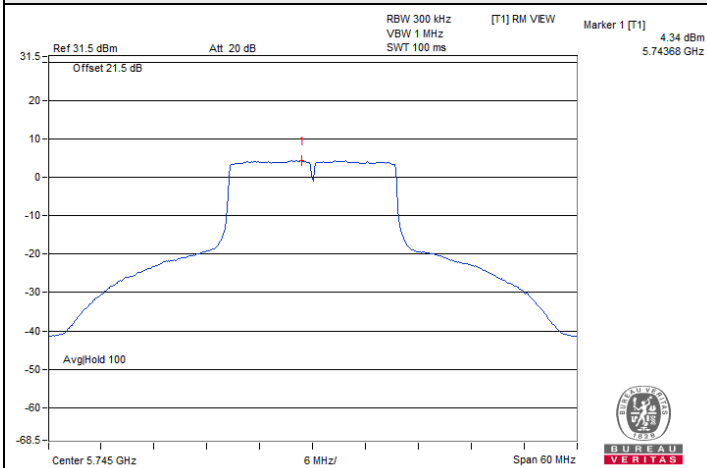
Notes:

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 = $10 \log[(10^{\text{Chain0/20}} + 10^{\text{Chain1/20}} + 10^{\text{Chain2/20}} + 10^{\text{Chain3/20}})^2 / 4]$
3. For U-NII-3, the directional gain is 9.75 dBi > 6 dBi, so the power density limit shall be reduced to $30 - (9.75 - 6) = 26.25$ dBm/500kHz.

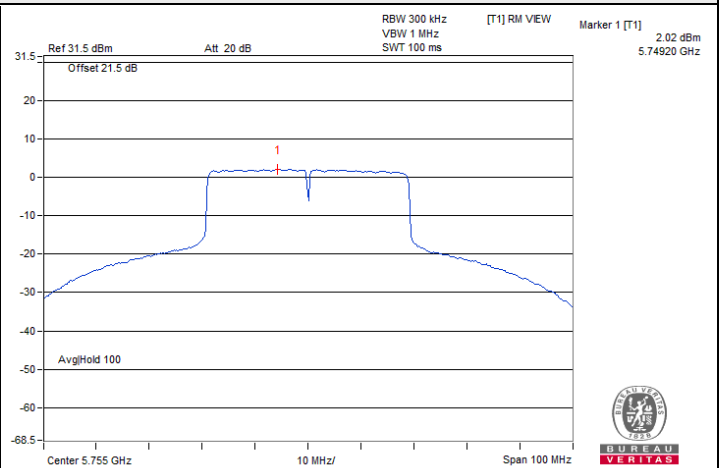
Spectrum Plot of Maximum Value



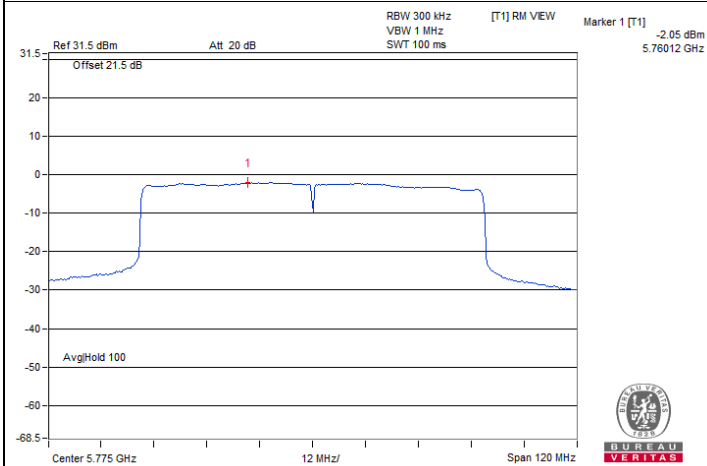
Spectrum Plot of Maximum Value



802.11ax (HE20) / Chain 1 : CH 149



802.11ax (HE40) / Chain 0 : CH 151



802.11ax (HE80) / Chain 2 : CH 155

7.4 6 dB Bandwidth

Input Power:	120 Vac, 60 Hz	Environmental Conditions:	25°C, 60% RH	Tested By:	John Peng
--------------	----------------	---------------------------	--------------	------------	-----------

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	3.14	3.13	3.14	3.14	0.5	Pass
149	5745	16.33	16.34	16.36	16.35	0.5	Pass
157	5785	16.35	16.37	16.35	16.35	0.5	Pass
165	5825	16.33	16.36	16.35	16.34	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	4.45	4.42	4.43	4.44	0.5	Pass
149	5745	18.66	18.96	18.92	18.90	0.5	Pass
157	5785	18.85	18.87	18.85	18.76	0.5	Pass
165	5825	18.78	18.89	18.87	18.84	0.5	Pass

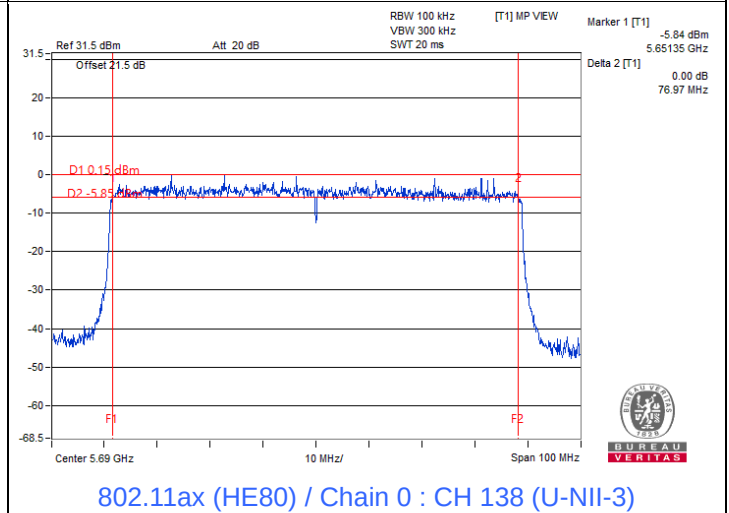
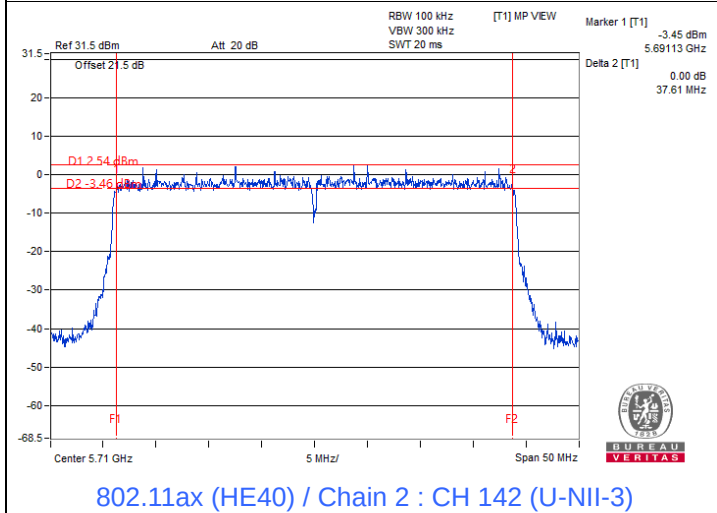
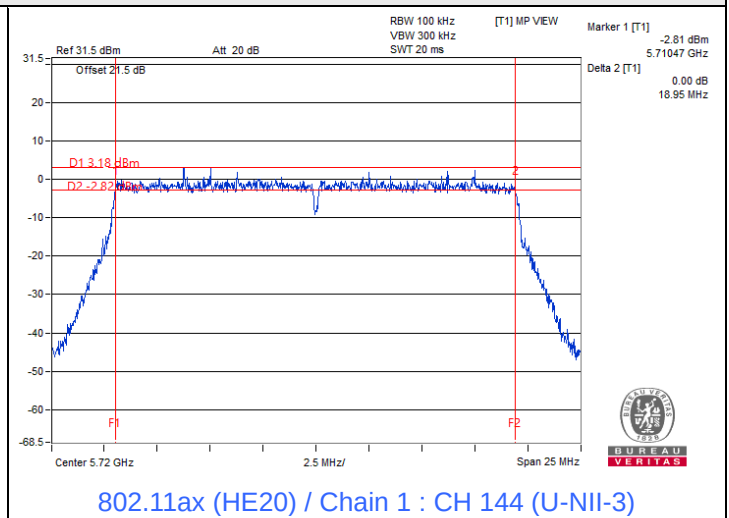
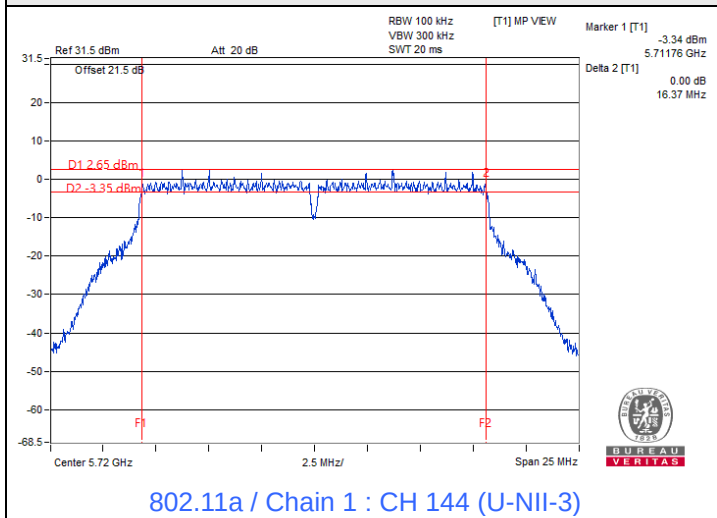
802.11ax (HE40)

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	3.75	3.90	3.74	3.75	0.5	Pass
151	5755	37.50	37.61	37.69	37.75	0.5	Pass
159	5795	37.05	37.48	37.85	37.24	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	3.32	3.55	3.82	3.80	0.5	Pass
155	5775	77.44	75.99	75.26	76.13	0.5	Pass

Spectrum Plot of Minimum Value



Notes:

1. 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:	John Peng
--------------	----------------	---------------------------	--------------	------------	-----------

802.11a

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
36	5180	16.98	16.92	16.98	16.98
40	5200	16.86	16.92	16.98	16.92
48	5240	16.74	16.68	16.86	16.80
52	5260	16.80	16.80	16.98	16.86
60	5300	16.74	16.80	16.92	16.92
64	5320	16.98	17.10	17.10	17.16
100	5500	16.98	17.16	17.22	17.10
116	5580	16.62	16.68	16.74	16.80
140	5700	16.86	16.86	16.92	16.98
144 (U-NII-2C)	5720	13.46	13.34	13.40	13.46
144 (U-NII-3)	5720	3.34	3.34	3.34	3.46
149	5745	17.22	17.34	16.92	16.98
157	5785	17.70	17.88	17.40	17.40
165	5825	18.72	17.82	17.88	17.88

802.11ax (HE20)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
36	5180	19.14	19.08	19.14	19.08
40	5200	19.14	19.08	19.08	19.08
48	5240	19.08	19.02	19.08	19.08
52	5260	19.08	19.14	19.08	19.02
60	5300	19.08	19.08	19.08	19.14
64	5320	19.20	19.26	19.14	19.20
100	5500	19.14	19.14	19.14	19.14
116	5580	19.08	19.02	18.96	19.08
140	5700	19.08	19.08	19.14	19.02
144 (U-NII-2C)	5720	14.54	14.54	14.54	14.60
144 (U-NII-3)	5720	4.54	4.48	4.42	4.54
149	5745	19.26	19.32	19.08	19.14
157	5785	19.56	19.50	19.20	19.20
165	5825	19.80	19.56	19.38	19.44

802.11ax (HE40)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
38	5190	37.98	37.98	37.98	38.16
46	5230	38.16	38.28	38.28	38.04
54	5270	37.80	37.98	37.80	37.98
62	5310	37.98	37.98	37.98	37.98
102	5510	38.16	37.98	38.16	37.98
110	5550	37.92	37.92	37.80	37.92
134	5670	37.92	37.80	38.04	37.92
142 (U-NII-2C)	5710	33.96	33.96	33.96	34.02
142 (U-NII-3)	5710	3.84	3.90	4.02	3.90
151	5755	38.88	40.32	38.40	38.88
159	5795	43.20	40.14	38.88	41.04

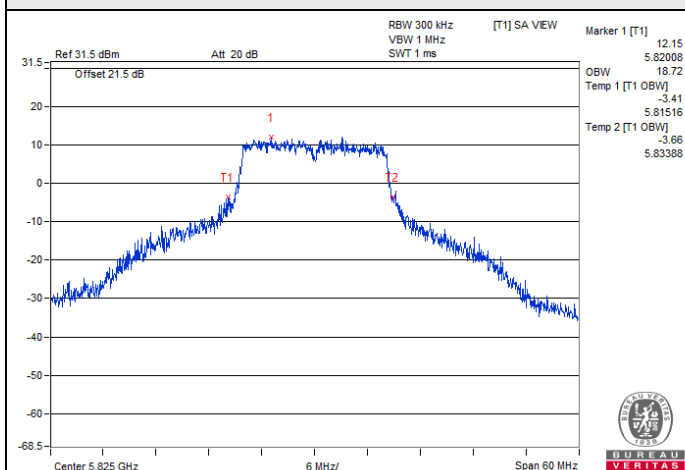
802.11ax (HE80)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
42	5210	77.52	77.28	77.28	77.28
58	5290	77.04	77.28	77.28	77.52
106	5530	77.04	77.52	77.28	77.28
122	5610	77.52	77.28	77.04	77.52
138 (U-NII-2C)	5690	73.52	73.64	73.64	73.64
138 (U-NII-3)	5690	3.52	3.52	3.64	3.52
155	5775	77.76	77.52	77.28	77.52

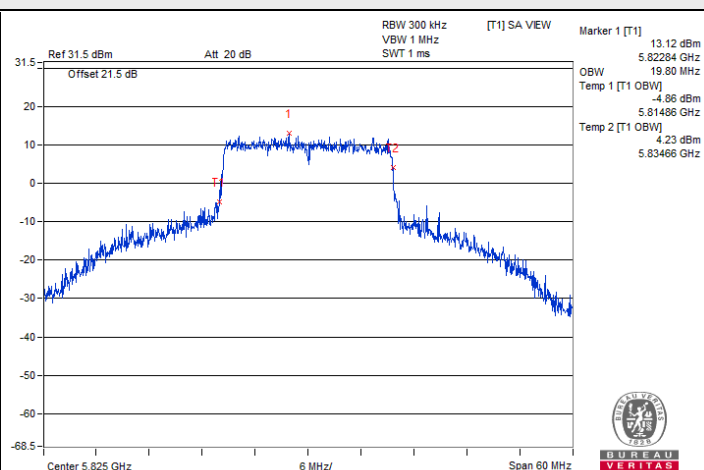
802.11ax (HE160)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
50 (U-NII-1)	5250	78.24	78.72	78.24	78.24
50 (U-NII-2A)	5250	78.72	78.24	78.24	78.24
114	5570	156.48	156.96	156.96	156.96

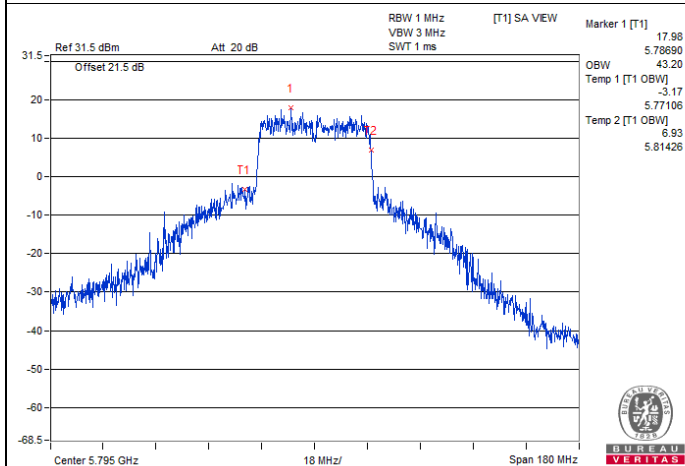
Spectrum Plot of Maximum Value



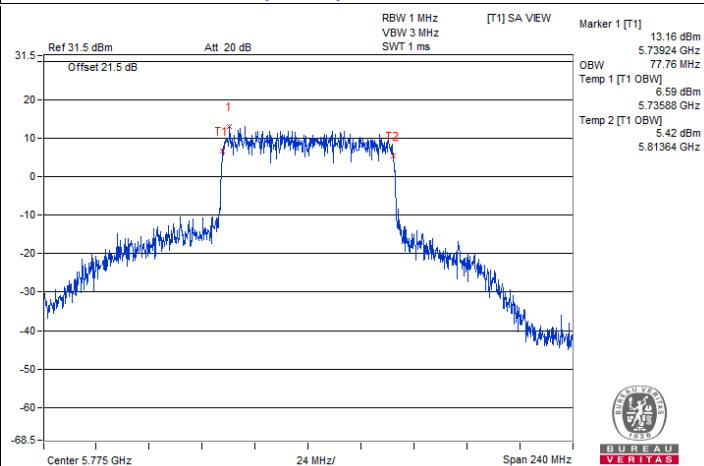
802.11a / Chain 0 : CH 165



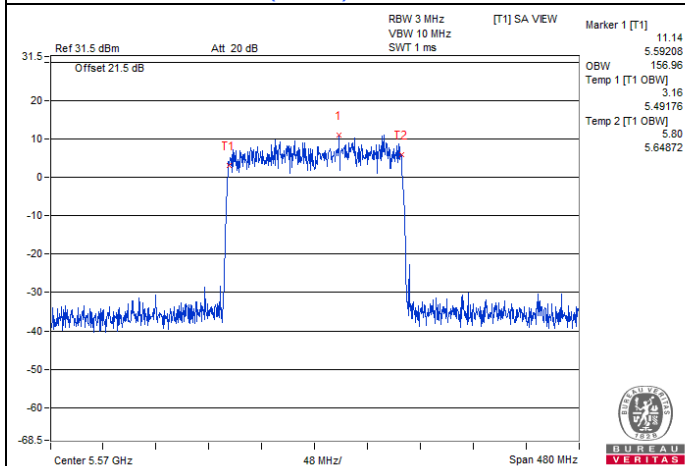
802.11ax (HE20) / Chain 0 : CH 165



802.11ax (HE40) / Chain 0 : CH 159



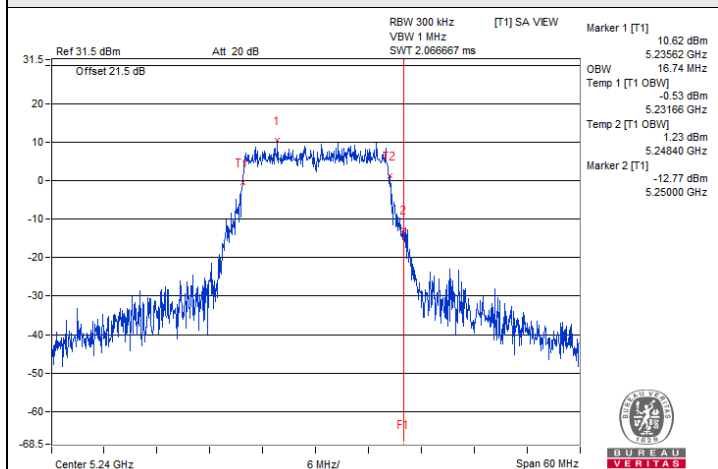
802.11ax (HE80) / Chain 0 : CH 155



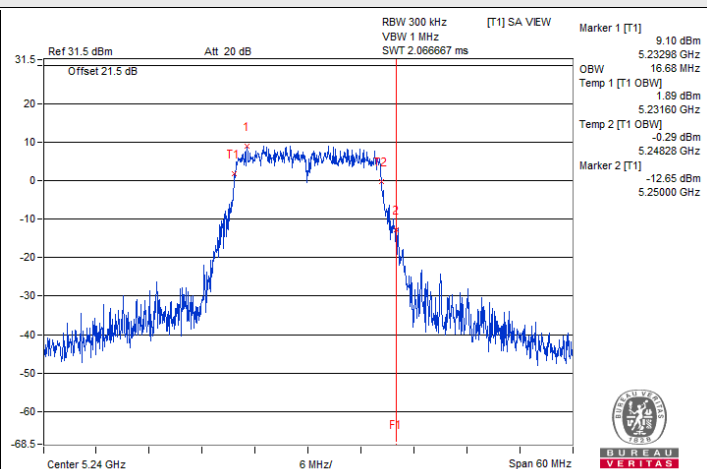
802.11ax (HE160) / Chain 1 : CH 114

Note: For U-NII-1 straddle channel = 5250 MHz - Marker 1
For U-NII-2A straddle channel = Marker 1 + Delta 2 - 5250 MHz

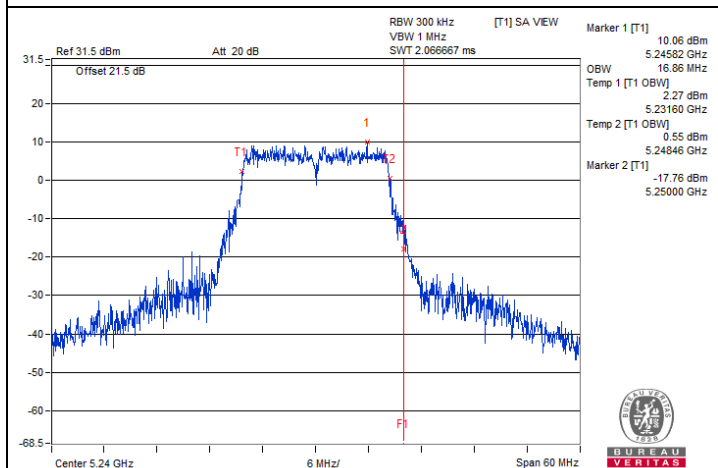
Spectrum Plot for nearby DFS band (DFS is required, if 99% OCP straddle into U-NII-2A)



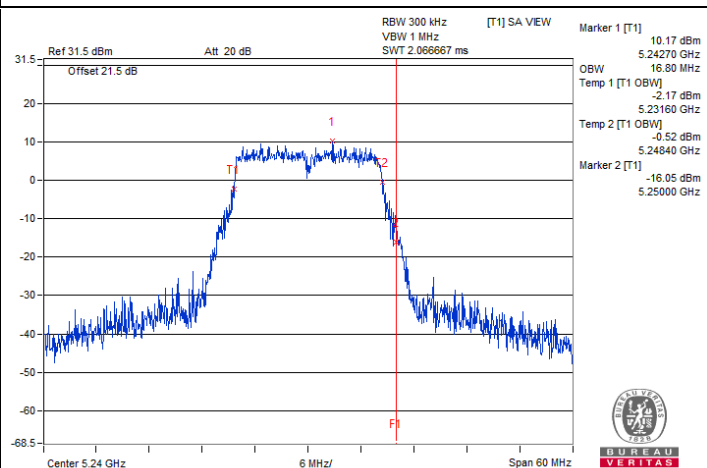
802.11a / Chain 0 : CH 48



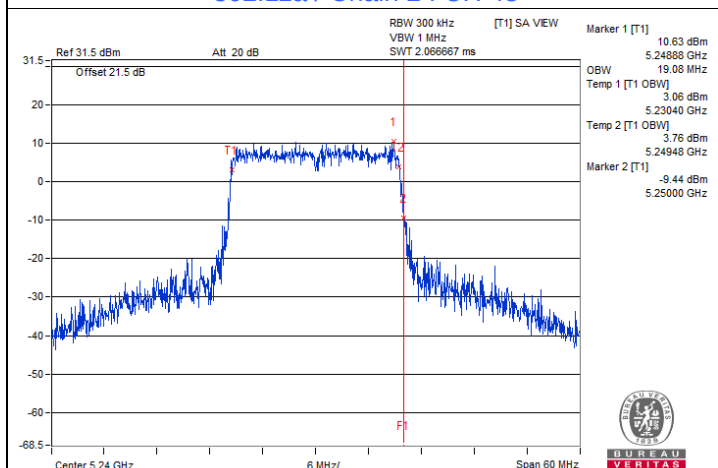
802.11a / Chain 1 : CH 48



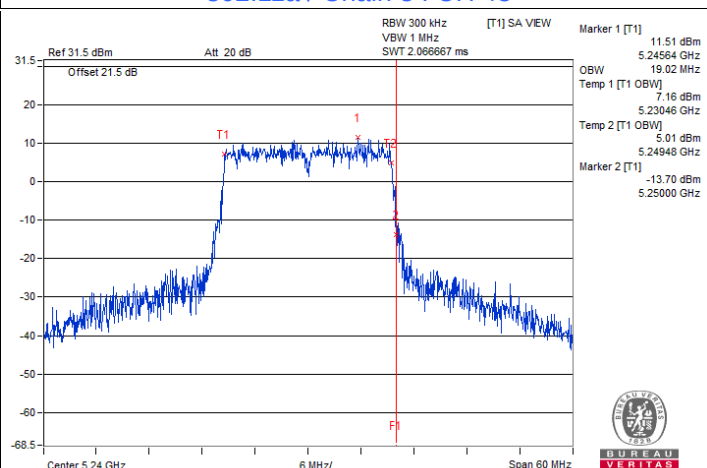
802.11a / Chain 2 : CH 48



802.11a / Chain 3 : CH 48

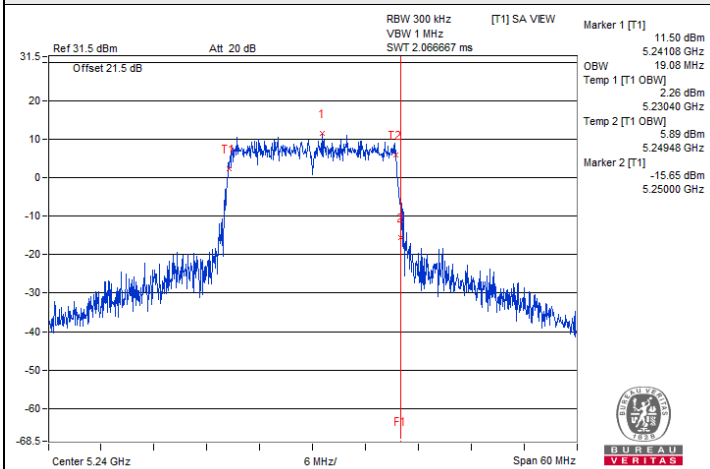


802.11ax (HE20) / Chain 0 : CH 48

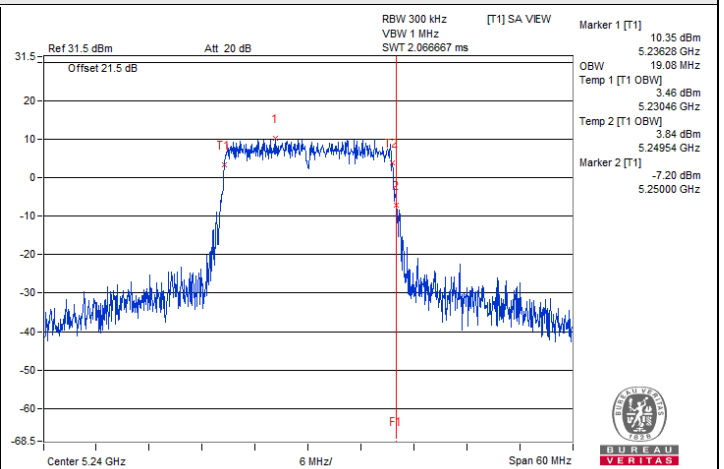


802.11ax (HE20) / Chain 1 : CH 48

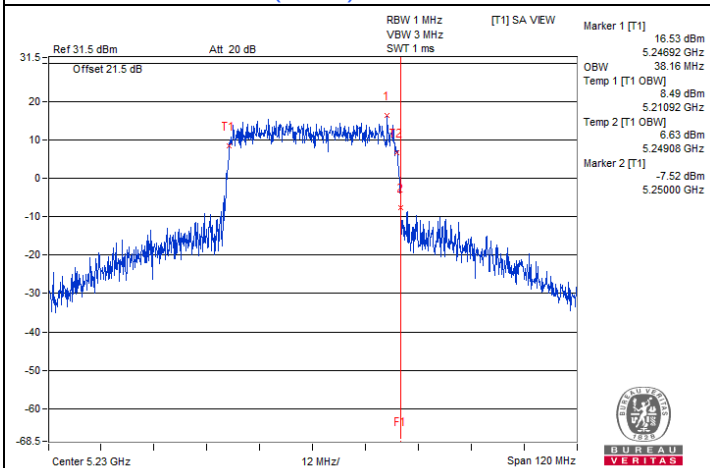
**Spectrum Plot for nearby DFS band
(DFS is required, if 99% OCP straddle into U-NII-2A)**



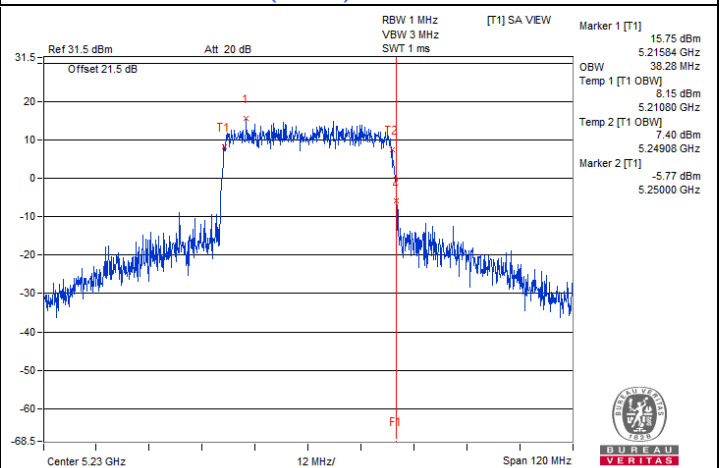
802.11ax (HE20) / Chain 2 : CH 48



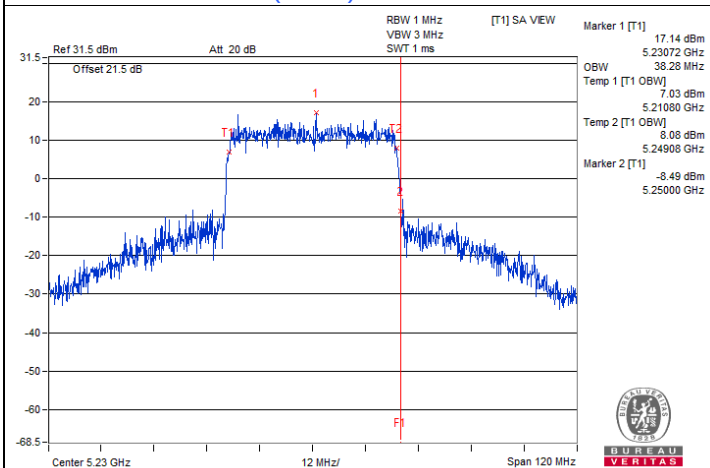
802.11ax (HE20) / Chain 3 : CH 48



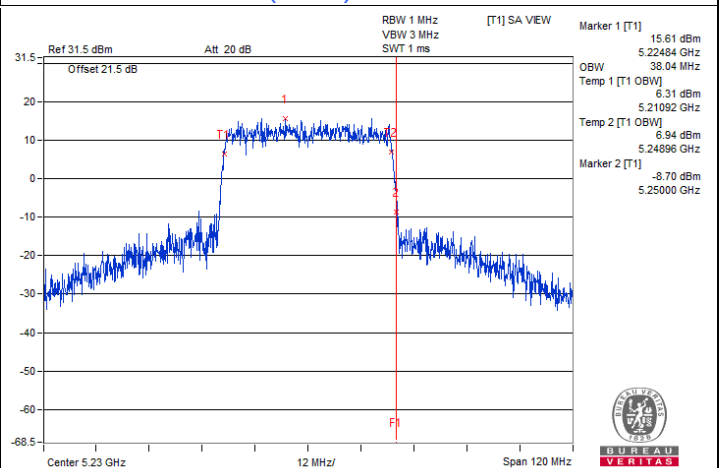
802.11ax (HE40) / Chain 0 : CH 46



802.11ax (HE40) / Chain 1 : CH 46

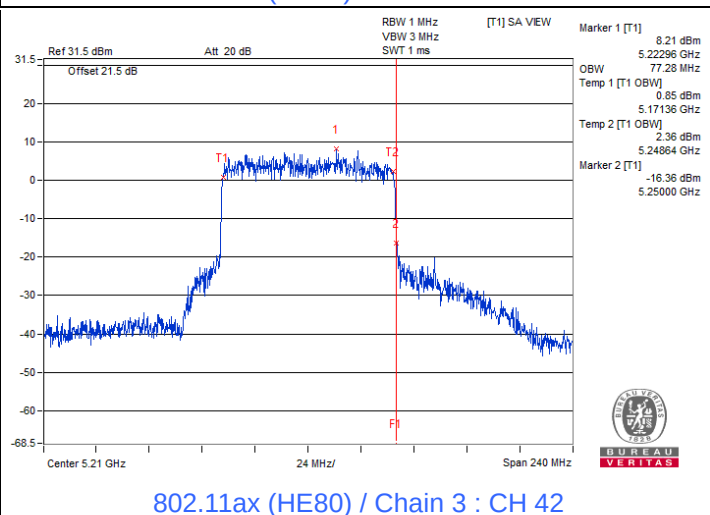
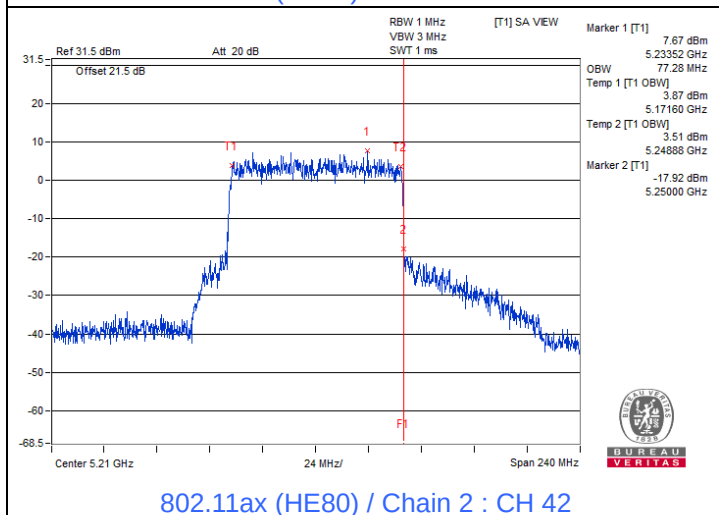
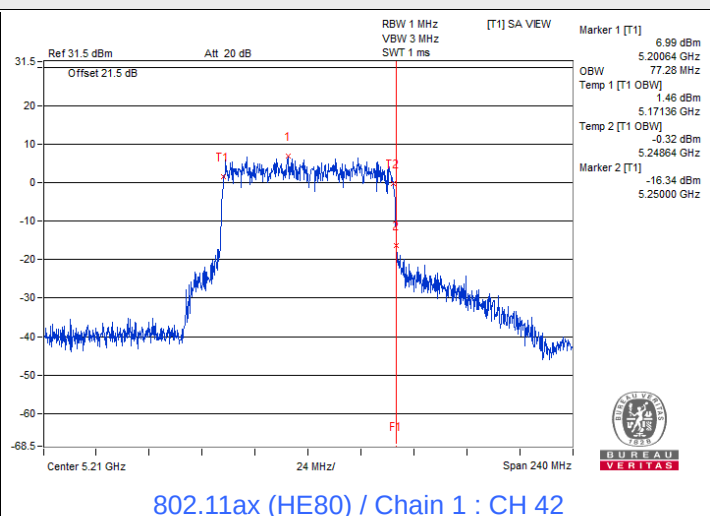
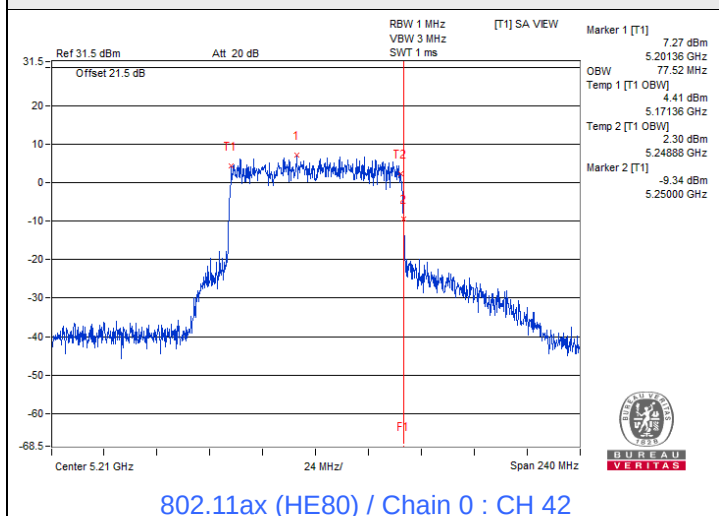


802.11ax (HE40) / Chain 2 : CH 46

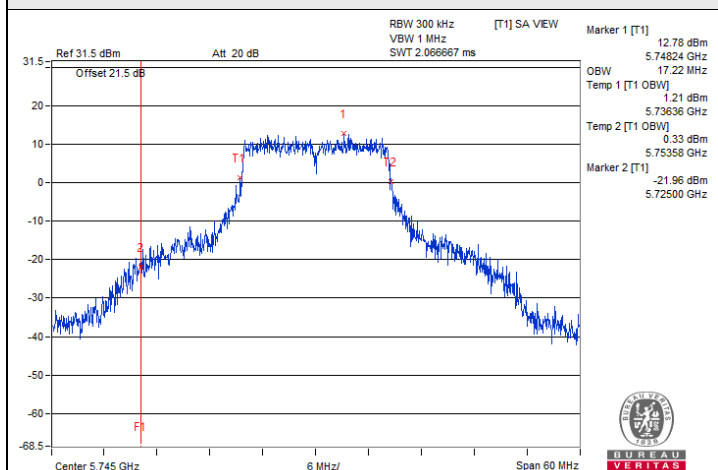


802.11ax (HE40) / Chain 3 : CH 46

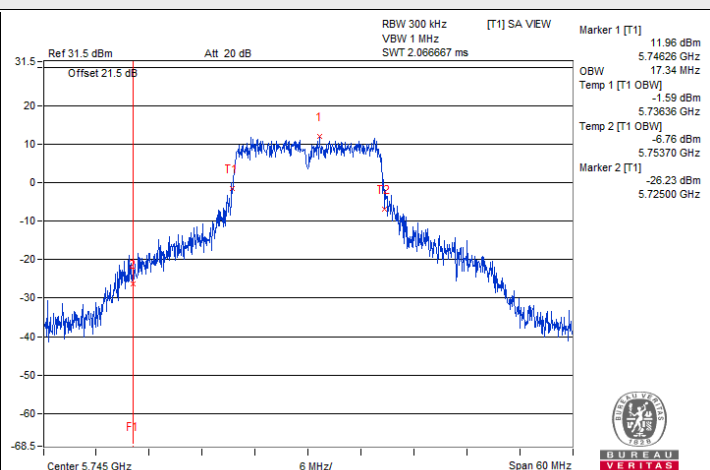
Spectrum Plot for nearby DFS band (DFS is required, if 99% OCP straddle into U-NII-2A)



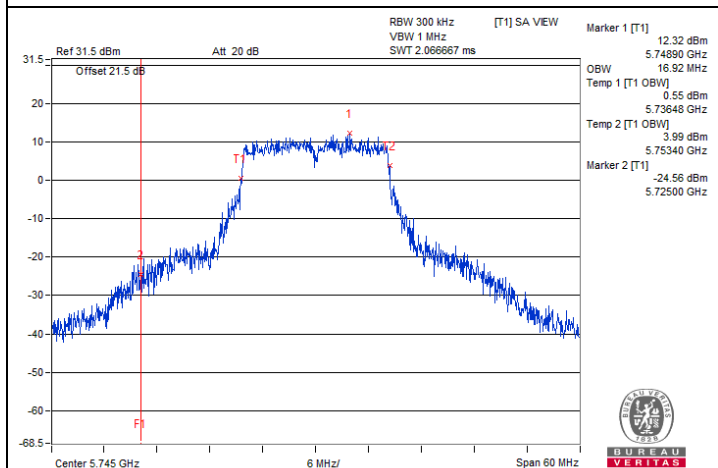
Spectrum Plot for nearby DFS band (DFS is required, if 99% OCP straddle into U-NII-2C)



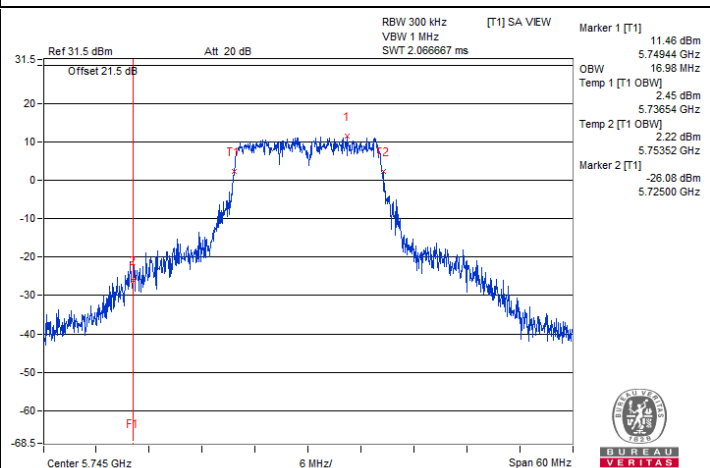
802.11a / Chain 0 : CH 149



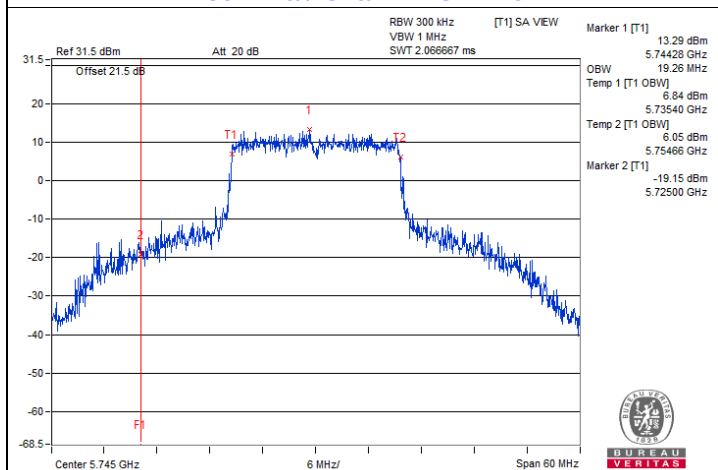
802.11a / Chain 1 : CH 149



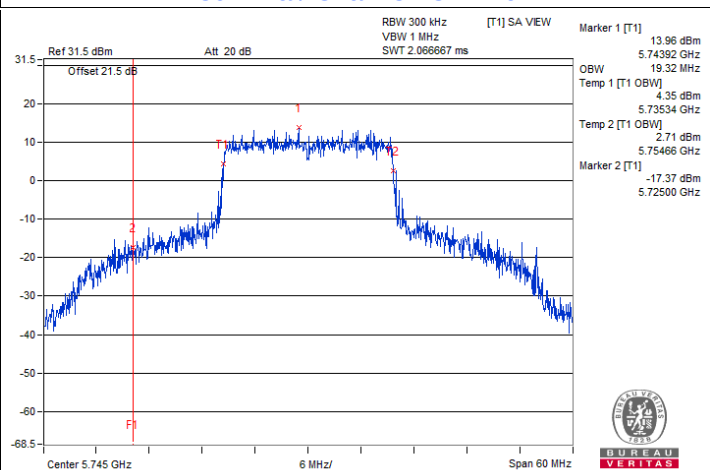
802.11a / Chain 2 : CH 149



802.11a / Chain 3 : CH 149

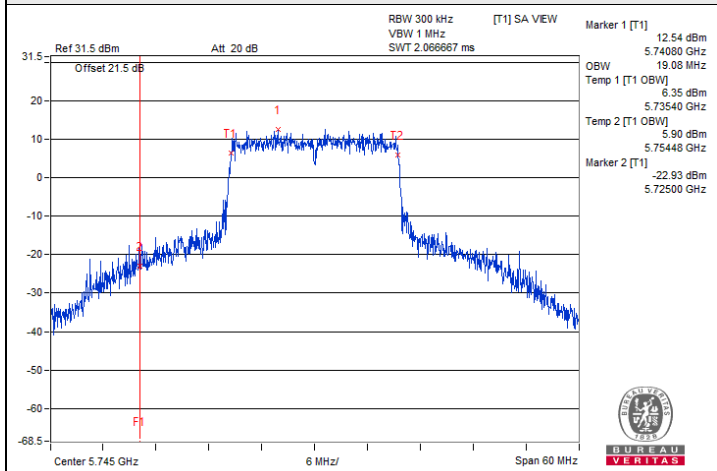


802.11ax (HE20) / Chain 0 : CH 149

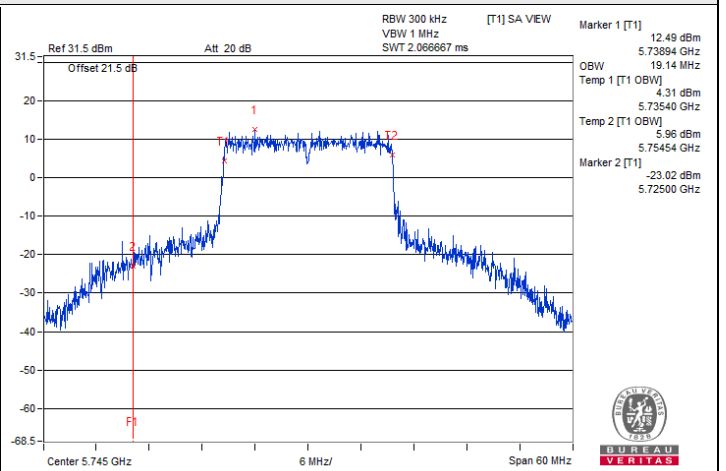


802.11ax (HE20) / Chain 1 : CH 149

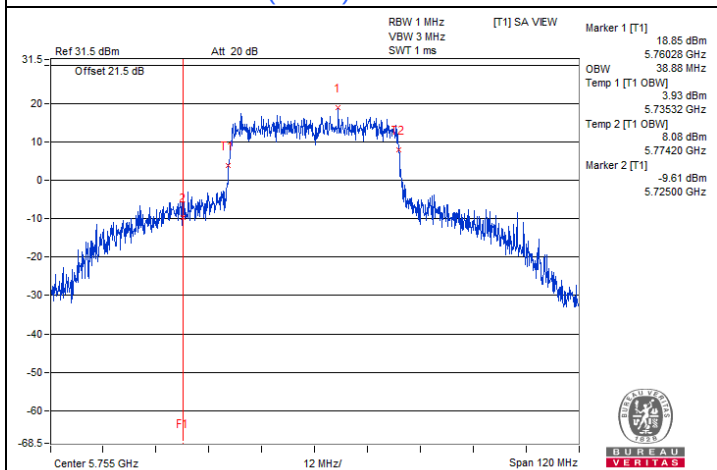
Spectrum Plot for nearby DFS band (DFS is required, if 99% OCP straddle into U-NII-2C)



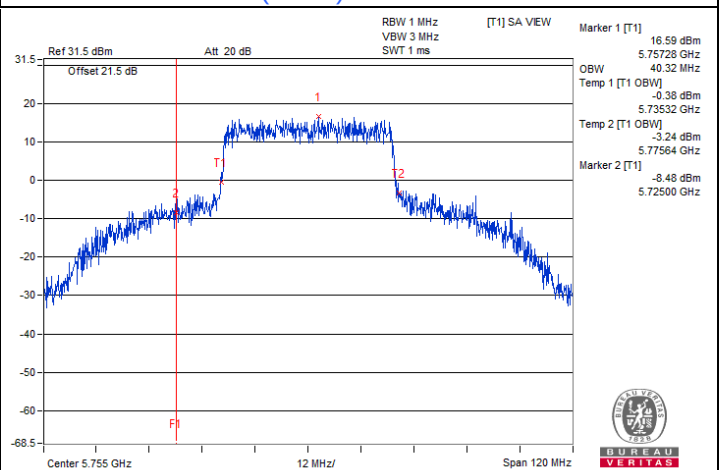
802.11ax (HE20) / Chain 2 : CH 149



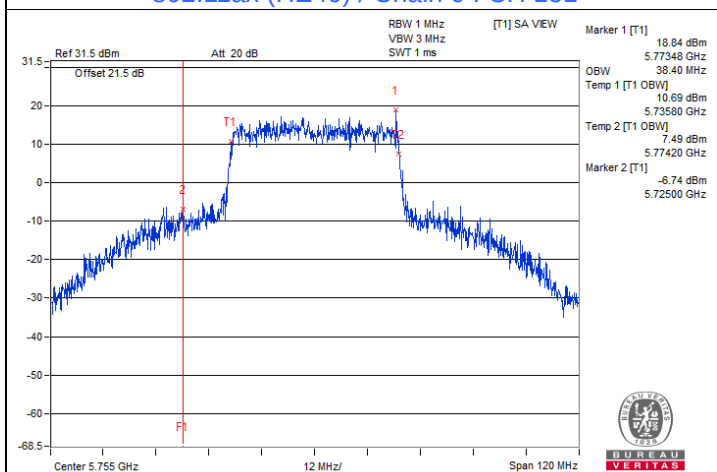
802.11ax (HE20) / Chain 3 : CH 149



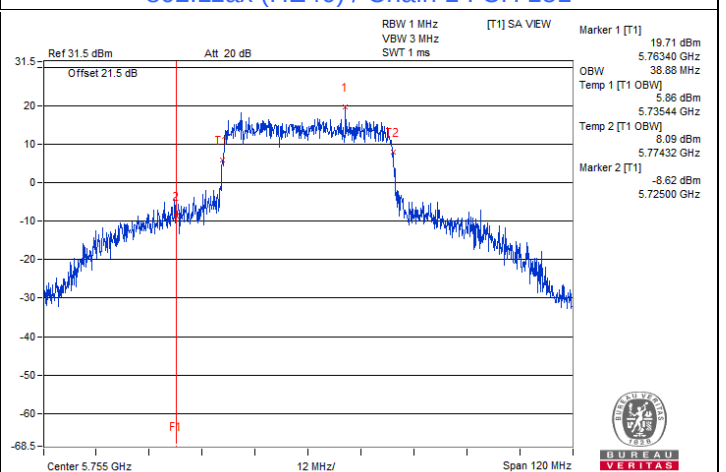
802.11ax (HE40) / Chain 0 : CH 151



802.11ax (HE40) / Chain 1 : CH 151

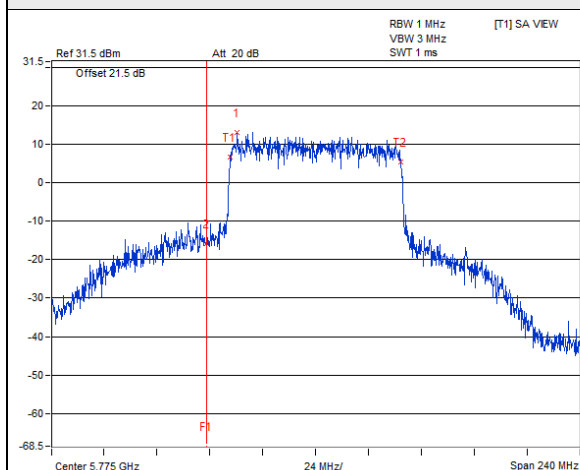


802.11ax (HE40) / Chain 2 : CH 151

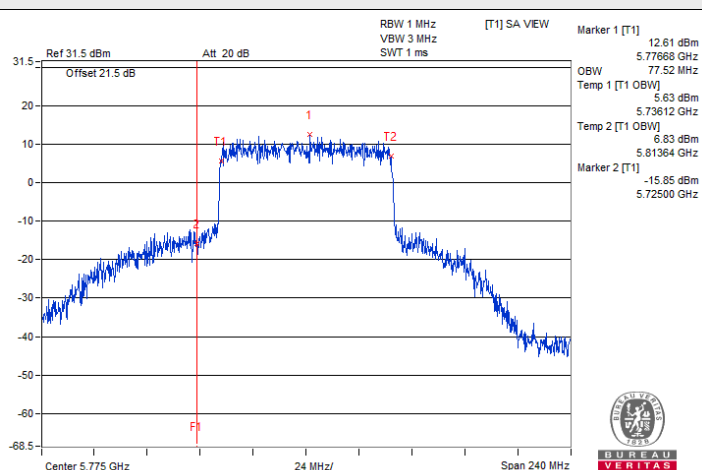


802.11ax (HE40) / Chain 3 : CH 151

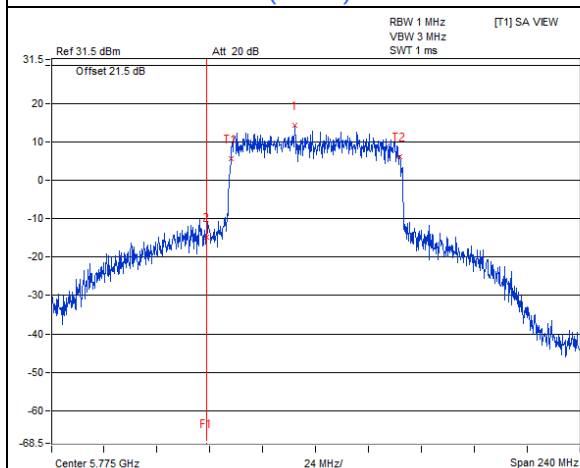
Spectrum Plot for nearby DFS band (DFS is required, if 99% OCP straddle into U-NII-2C)



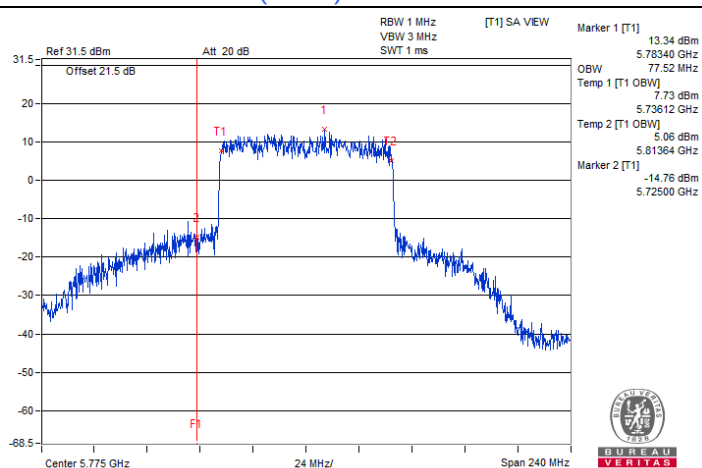
802.11ax (HE80) / Chain 0 : CH 155



802.11ax (HE80) / Chain 1 : CH 155



802.11ax (HE80) / Chain 2 : CH 155



802.11ax (HE80) / Chain 3 : CH 155

7.6 Frequency Stability

Input Power:	120 Vac, 60 Hz	Environmental Conditions:	25°C, 60% RH	Tested By:	John Peng
--------------	----------------	---------------------------	--------------	------------	-----------

802.11a

Frequency Stability Versus Temperature									
Operating Frequency: 5180 MHz									
Temp. (°C)	Power Supply (Vac)	0 Minute		2 Minutes		5 Minutes		10 Minutes	
		Measured Frequency (MHz)	Test Result	Measured Frequency (MHz)	Test Result	Measured Frequency (MHz)	Test Result	Measured Frequency (MHz)	Test Result
40	120	5179.9954	Pass	5179.9953	Pass	5179.9974	Pass	5179.9964	Pass
30	120	5179.9934	Pass	5179.9944	Pass	5179.9927	Pass	5179.994	Pass
20	120	5179.9991	Pass	5180.0018	Pass	5179.9988	Pass	5180.0001	Pass
10	120	5180.0104	Pass	5180.0121	Pass	5180.0107	Pass	5180.0111	Pass
0	120	5180.0273	Pass	5180.0236	Pass	5180.0281	Pass	5180.0248	Pass

Frequency Stability Versus Voltage									
Operating Frequency: 5180 MHz									
Temp. (°C)	Power Supply (Vac)	0 Minute		2 Minutes		5 Minutes		10 Minutes	
		Measured Frequency (MHz)	Test Result	Measured Frequency (MHz)	Test Result	Measured Frequency (MHz)	Test Result	Measured Frequency (MHz)	Test Result
20	138	5179.9943	Pass	5179.9913	Pass	5179.9937	Pass	5179.9943	Pass
	120	5179.9991	Pass	5180.0018	Pass	5179.9988	Pass	5180.0001	Pass
	102	5180.0028	Pass	5180.0031	Pass	5179.9994	Pass	5180.0015	Pass

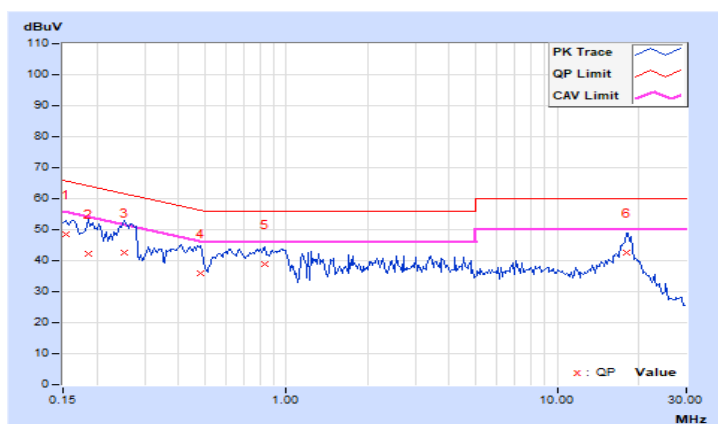
7.7 AC Power Conducted Emissions

RF Mode	802.11ax (HE40)	Channel	CH 159 : 5795 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	25°C, 75% RH
Tested By	Ryan Du		

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	9.95	38.61	24.77	48.56	34.72	65.79	55.79	-17.23	-21.07
2	0.18516	9.96	32.16	21.88	42.12	31.84	64.25	54.25	-22.13	-22.41
3	0.25156	9.96	32.66	25.88	42.62	35.84	61.71	51.71	-19.09	-15.87
4	0.48203	9.97	26.10	13.45	36.07	23.42	56.30	46.30	-20.23	-22.88
5	0.83359	9.99	28.97	11.65	38.96	21.64	56.00	46.00	-17.04	-24.36
6	18.03516	11.09	31.43	24.36	42.52	35.45	60.00	50.00	-17.48	-14.55

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

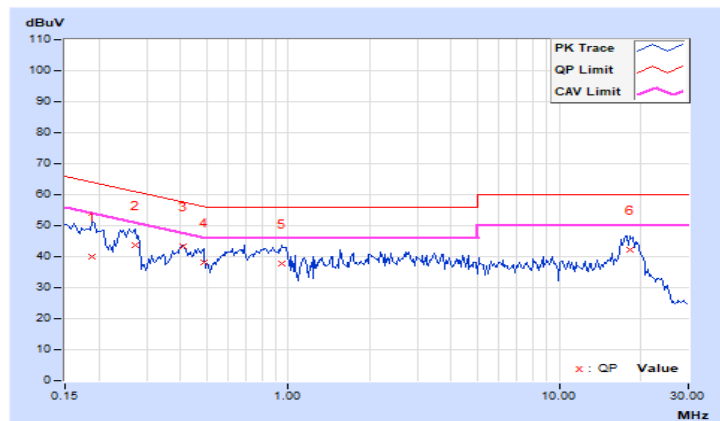


RF Mode	802.11ax (HE40)	Channel	CH 159 : 5795 MHz
Frequency Range	150 kHz ~ 30 MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Ryan Du		

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	0.18906	9.96	30.17	19.18	40.13	29.14	64.08	54.08	-23.95	-24.94
2	0.27109	9.96	33.84	22.29	43.80	32.25	61.08	51.08	-17.28	-18.83
3	0.40781	9.96	33.19	21.44	43.15	31.40	57.69	47.69	-14.54	-16.29
4	0.48594	9.97	28.22	15.97	38.19	25.94	56.24	46.24	-18.05	-20.30
5	0.95078	10.00	27.67	17.79	37.67	27.79	56.00	46.00	-18.33	-18.21
6	18.25781	10.90	31.35	23.60	42.25	34.50	60.00	50.00	-17.75	-15.50

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



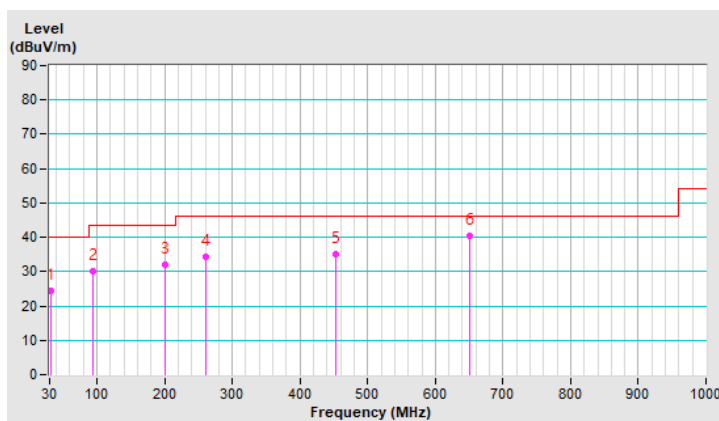
7.8 Unwanted Emissions below 1 GHz

RF Mode	802.11ax (HE40)	Channel	CH 159 : 5795 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	(QP) RB = 120kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	20°C, 70% RH
Tested By	Ryan Du		

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	31.10	24.5 QP	40.0	-15.5	1.00 H	58	38.4	-13.9
2	93.79	30.1 QP	43.5	-13.4	2.00 H	294	47.8	-17.7
3	200.82	32.1 QP	43.5	-11.4	1.50 H	291	47.0	-14.9
4	260.08	34.3 QP	46.0	-11.7	1.00 H	86	46.7	-12.4
5	452.78	35.2 QP	46.0	-10.8	2.00 H	44	41.2	-6.0
6	651.11	40.5 QP	46.0	-5.5	1.00 H	51	41.8	-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 emission levels were very low against the limit of frequency range 9 kHz ~ 30 MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.

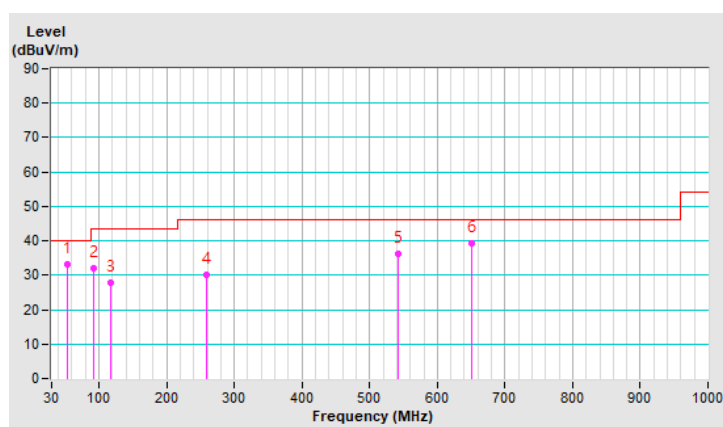


RF Mode	802.11ax (HE40)	Channel	CH 159 : 5795 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	(QP) RB = 120kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	20°C, 70% RH
Tested By	Ryan Du		

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	52.91	33.1 QP	40.0	-6.9	1.00 V	124	45.7	-12.6
2	92.21	32.1 QP	43.5	-11.4	1.00 V	178	49.9	-17.8
3	116.84	27.8 QP	43.5	-15.7	1.00 V	335	42.2	-14.4
4	258.21	30.2 QP	46.0	-15.8	2.00 V	16	42.7	-12.5
5	542.77	36.2 QP	46.0	-9.8	1.00 V	177	40.4	-4.2
6	650.01	39.2 QP	46.0	-6.8	1.00 V	297	40.5	-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 emission levels were very low against the limit of frequency range 9 kHz ~ 30 MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.



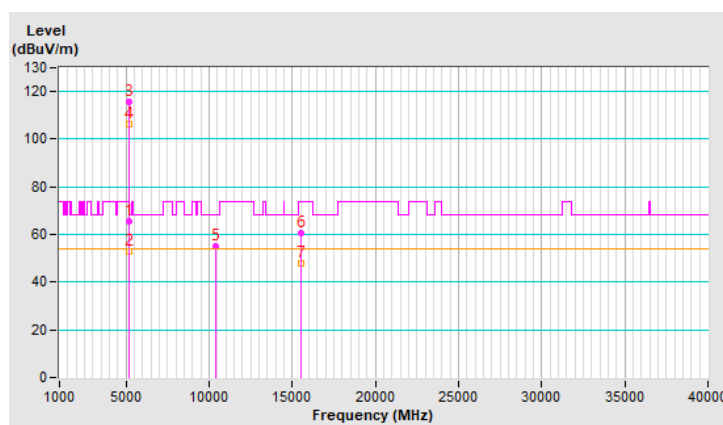
7.9 Unwanted Emissions above 1 GHz

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 (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Tom Yang		

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	2.17 H	88	64.3	1.2
2	5150.00	53.1 AV	54.0	-0.9	2.17 H	88	51.9	1.2
3	*5180.00	115.6 PK			2.17 H	88	114.5	1.1
4	*5180.00	106.2 AV			2.17 H	88	105.1	1.1
5	#10360.00	55.0 PK	68.2	-13.2	1.82 H	128	43.9	11.1
6	15540.00	60.4 PK	74.0	-13.6	1.51 H	234	49.3	11.1
7	15540.00	47.7 AV	54.0	-6.3	1.51 H	234	36.6	11.1

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.

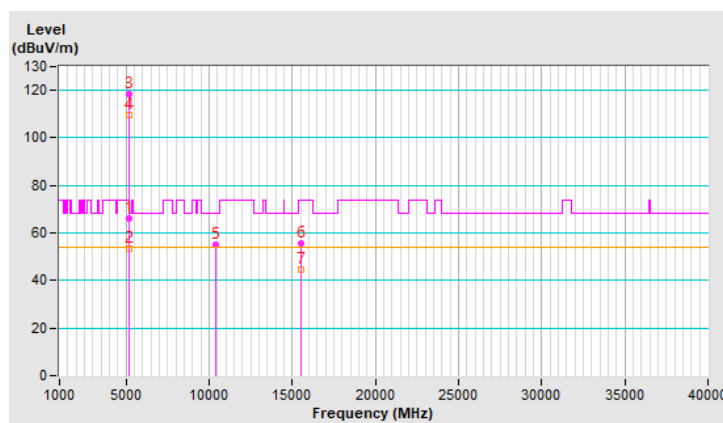


RF Mode	802.11a	Channel	CH 36 : 5180 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Tom Yang		

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	65.9 PK	74.0	-8.1	1.55 V	326	64.7	1.2
2	5150.00	53.5 AV	54.0	-0.5	1.55 V	326	52.3	1.2
3	*5180.00	118.4 PK			1.55 V	326	117.3	1.1
4	*5180.00	109.5 AV			1.55 V	326	108.4	1.1
5	#10360.00	55.1 PK	68.2	-13.1	1.51 V	248	44.0	11.1
6	15540.00	55.4 PK	74.0	-18.6	1.59 V	106	44.3	11.1
7	15540.00	44.5 AV	54.0	-9.5	1.59 V	106	33.4	11.1

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.

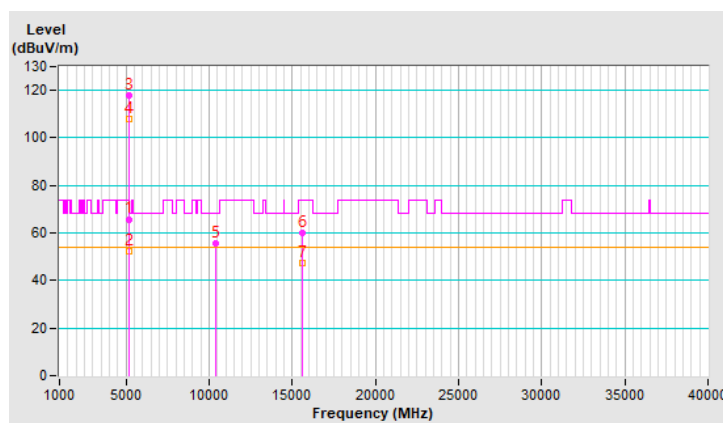


RF Mode	802.11a	Channel	CH 40 : 5200 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Tom Yang		

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	65.8 PK	74.0	-8.2	2.17 H	81	64.6	1.2
2	5150.00	52.3 AV	54.0	-1.7	2.17 H	81	51.1	1.2
3	*5200.00	117.8 PK			2.17 H	81	116.9	0.9
4	*5200.00	107.7 AV			2.17 H	81	106.8	0.9
5	#10400.00	55.4 PK	68.2	-12.8	1.88 H	143	44.3	11.1
6	15600.00	60.2 PK	74.0	-13.8	1.45 H	232	49.1	11.1
7	15600.00	47.4 AV	54.0	-6.6	1.45 H	232	36.3	11.1

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.

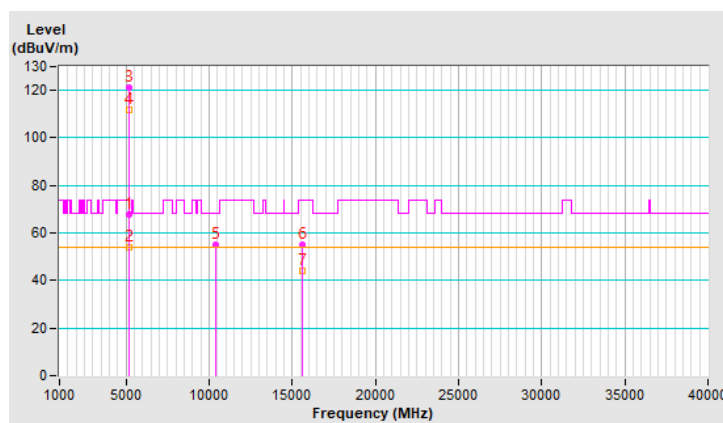


RF Mode	802.11a	Channel	CH 40 : 5200 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Tom Yang		

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	67.9 PK	74.0	-6.1	1.60 V	319	66.7	1.2
2	5150.00	53.8 AV	54.0	-0.2	1.60 V	319	52.6	1.2
3	*5200.00	121.1 PK			1.60 V	319	120.2	0.9
4	*5200.00	111.9 AV			1.60 V	319	111.0	0.9
5	#10400.00	55.3 PK	68.2	-12.9	1.54 V	244	44.2	11.1
6	15600.00	55.3 PK	74.0	-18.7	1.55 V	118	44.2	11.1
7	15600.00	44.3 AV	54.0	-9.7	1.55 V	118	33.2	11.1

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.

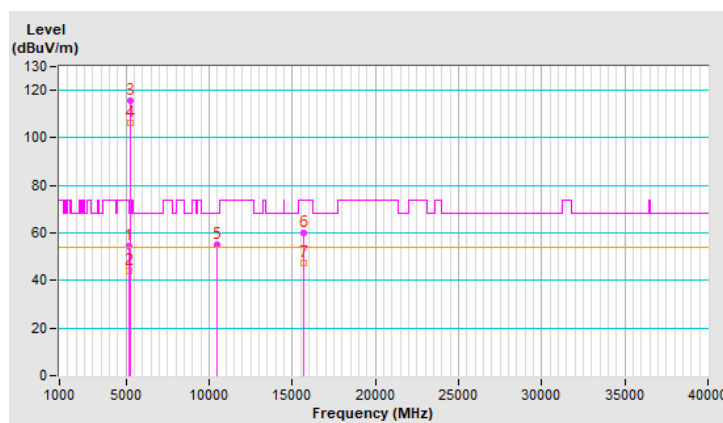


RF Mode	802.11a	Channel	CH 48 : 5240 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Tom Yang		

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	54.4 PK	74.0	-19.6	2.19 H	100	53.2	1.2
2	5150.00	43.8 AV	54.0	-10.2	2.19 H	100	42.6	1.2
3	*5240.00	115.5 PK			2.19 H	100	114.7	0.8
4	*5240.00	106.1 AV			2.19 H	100	105.3	0.8
5	#10480.00	55.1 PK	68.2	-13.1	1.90 H	153	43.8	11.3
6	15720.00	60.2 PK	74.0	-13.8	1.40 H	232	49.5	10.7
7	15720.00	47.3 AV	54.0	-6.7	1.40 H	232	36.6	10.7

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.

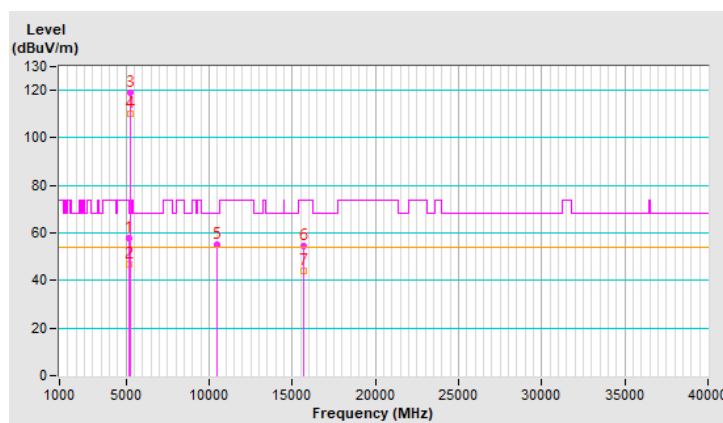


RF Mode	802.11a	Channel	CH 48 : 5240 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Tom Yang		

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	57.8 PK	74.0	-16.2	1.58 V	314	56.6	1.2
2	5150.00	47.0 AV	54.0	-7.0	1.58 V	314	45.8	1.2
3	*5240.00	118.8 PK			1.58 V	314	118.0	0.8
4	*5240.00	110.2 AV			1.58 V	314	109.4	0.8
5	#10480.00	55.1 PK	68.2	-13.1	1.49 V	250	43.8	11.3
6	15720.00	54.7 PK	74.0	-19.3	1.52 V	131	44.0	10.7
7	15720.00	43.9 AV	54.0	-10.1	1.52 V	131	33.2	10.7

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.

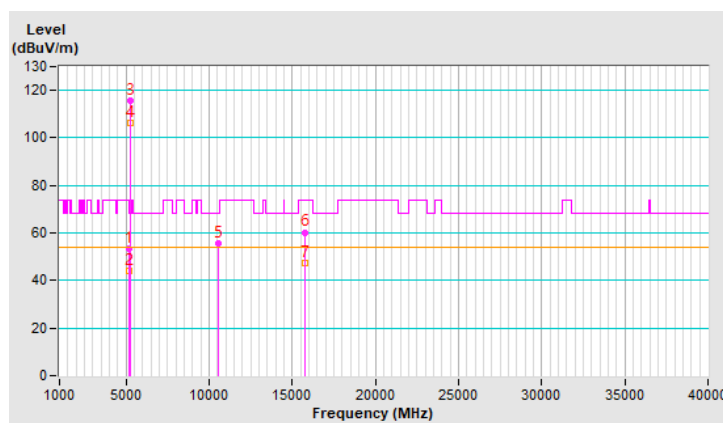


RF Mode	802.11a	Channel	CH 52 : 5260 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Tom Yang		

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	5145.65	53.6 PK	74.0	-20.4	2.12 H	83	52.4	1.2
2	5145.65	43.8 AV	54.0	-10.2	2.12 H	83	42.6	1.2
3	*5260.00	115.7 PK			2.12 H	83	114.9	0.8
4	*5260.00	106.2 AV			2.12 H	83	105.4	0.8
5	#10520.00	55.5 PK	68.2	-12.7	1.89 H	130	44.1	11.4
6	15780.00	60.3 PK	74.0	-13.7	1.50 H	243	49.3	11.0
7	15780.00	47.4 AV	54.0	-6.6	1.50 H	243	36.4	11.0

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.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

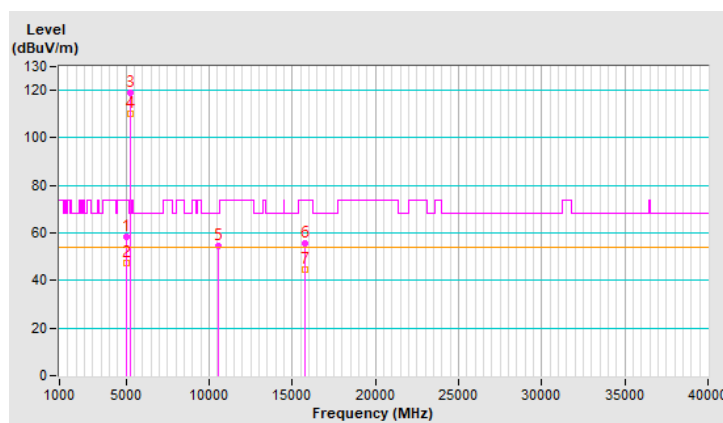


RF Mode	802.11a	Channel	CH 52 : 5260 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Tom Yang		

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	5060.83	58.3 PK	74.0	-15.7	1.50 V	316	57.4	0.9
2	5060.83	47.3 AV	54.0	-6.7	1.50 V	316	46.4	0.9
3	*5260.00	118.9 PK			1.50 V	316	118.1	0.8
4	*5260.00	110.4 AV			1.50 V	316	109.6	0.8
5	#10520.00	54.7 PK	68.2	-13.5	1.49 V	228	43.3	11.4
6	15780.00	55.6 PK	74.0	-18.4	1.49 V	130	44.6	11.0
7	15780.00	44.6 AV	54.0	-9.4	1.49 V	130	33.6	11.0

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.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

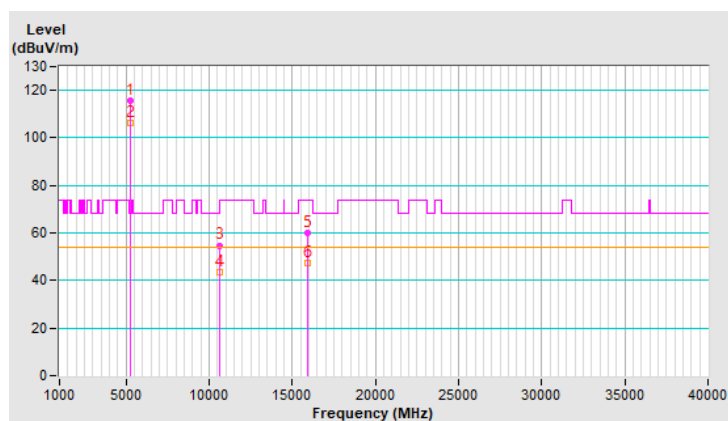


RF Mode	802.11a	Channel	CH 60 : 5300 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Tom Yang		

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	115.8 PK			2.18 H	93	115.0	0.8
2	*5300.00	106.4 AV			2.18 H	93	105.6	0.8
3	10600.00	54.8 PK	74.0	-19.2	1.86 H	156	43.9	10.9
4	10600.00	43.6 AV	54.0	-10.4	1.86 H	156	32.7	10.9
5	15900.00	60.2 PK	74.0	-13.8	1.45 H	230	48.9	11.3
6	15900.00	47.5 AV	54.0	-6.5	1.45 H	230	36.2	11.3

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.

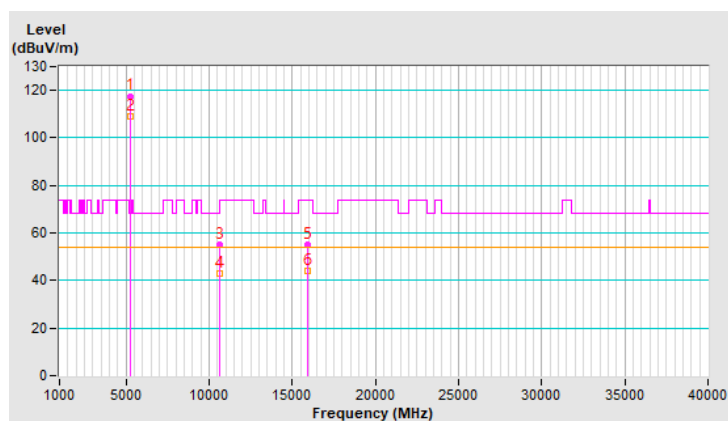


RF Mode	802.11a	Channel	CH 60 : 5300 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Tom Yang		

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	117.6 PK			1.46 V	308	116.8	0.8
2	*5300.00	109.1 AV			1.46 V	308	108.3	0.8
3	10600.00	55.0 PK	74.0	-19.0	1.52 V	241	44.1	10.9
4	10600.00	42.9 AV	54.0	-11.1	1.52 V	241	32.0	10.9
5	15900.00	55.0 PK	74.0	-19.0	1.56 V	133	43.7	11.3
6	15900.00	44.3 AV	54.0	-9.7	1.56 V	133	33.0	11.3

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.

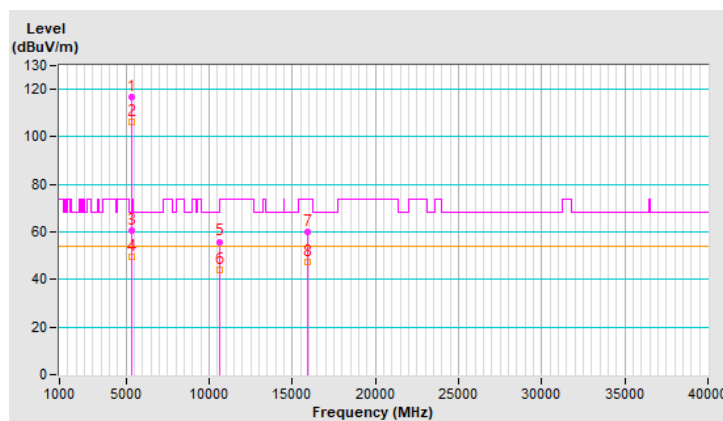


RF Mode	802.11a	Channel	CH 64 : 5320 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Tom Yang		

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	116.9 PK			2.46 H	71	116.0	0.9
2	*5320.00	106.1 AV			2.46 H	71	105.2	0.9
3	5350.00	60.7 PK	74.0	-13.3	2.46 H	71	59.7	1.0
4	5350.00	49.4 AV	54.0	-4.6	2.46 H	71	48.4	1.0
5	10640.00	55.9 PK	74.0	-18.1	1.92 H	128	44.9	11.0
6	10640.00	44.3 AV	54.0	-9.7	1.92 H	128	33.3	11.0
7	15960.00	60.2 PK	74.0	-13.8	1.46 H	229	48.5	11.7
8	15960.00	47.4 AV	54.0	-6.6	1.46 H	229	35.7	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.

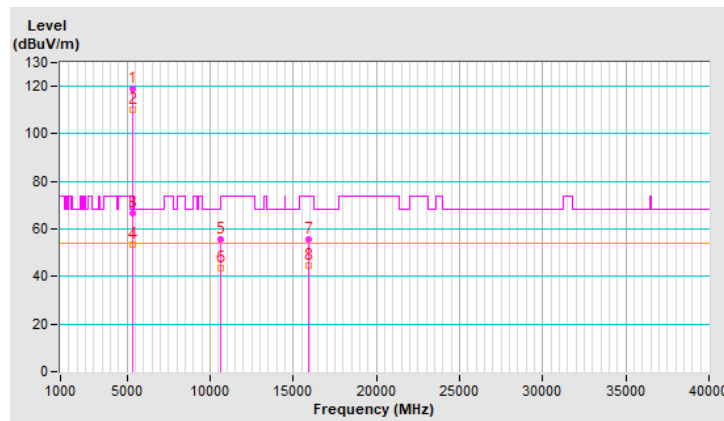


RF Mode	802.11a	Channel	CH 64 : 5320 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Tom Yang		

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	119.1 PK			1.15 V	306	118.2	0.9
2	*5320.00	110.2 AV			1.15 V	306	109.3	0.9
3	5350.00	66.5 PK	74.0	-7.5	1.15 V	306	65.5	1.0
4	5350.00	53.6 AV	54.0	-0.4	1.15 V	306	52.6	1.0
5	10640.00	55.6 PK	74.0	-18.4	1.55 V	244	44.6	11.0
6	10640.00	43.7 AV	54.0	-10.3	1.55 V	244	32.7	11.0
7	15960.00	55.7 PK	74.0	-18.3	1.57 V	102	44.0	11.7
8	15960.00	44.5 AV	54.0	-9.5	1.57 V	102	32.8	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.

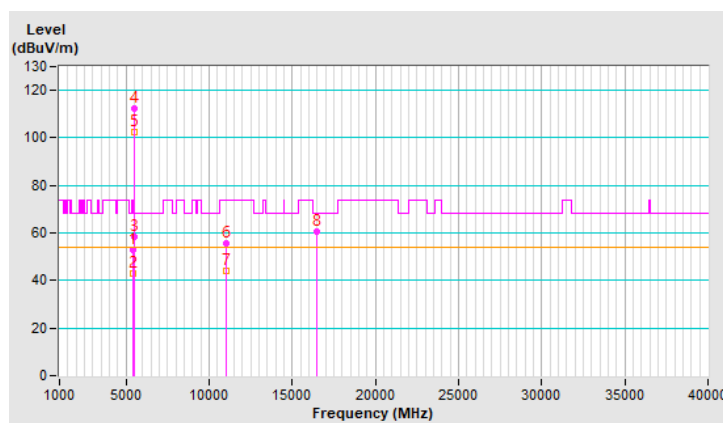


RF Mode	802.11a	Channel	CH 100 : 5500 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Tom Yang		

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	53.1 PK	74.0	-20.9	1.58 H	67	52.0	1.1
2	5460.00	43.0 AV	54.0	-11.0	1.58 H	67	41.9	1.1
3	#5470.00	58.5 PK	68.2	-9.7	1.58 H	67	57.4	1.1
4	*5500.00	112.1 PK			1.58 H	67	110.9	1.2
5	*5500.00	102.2 AV			1.58 H	67	101.0	1.2
6	11000.00	55.4 PK	74.0	-18.6	1.90 H	144	43.3	12.1
7	11000.00	44.2 AV	54.0	-9.8	1.90 H	144	32.1	12.1
8	#16500.00	60.4 PK	68.2	-7.8	1.43 H	234	46.3	14.1

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.

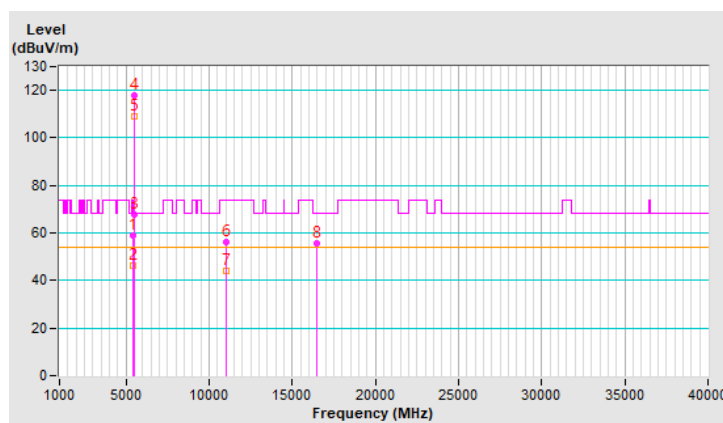


RF Mode	802.11a	Channel	CH 100 : 5500 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Tom Yang		

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	58.8 PK	74.0	-15.2	1.56 V	293	57.7	1.1
2	5460.00	46.5 AV	54.0	-7.5	1.56 V	293	45.4	1.1
3	#5470.00	67.9 PK	68.2	-0.3	1.56 V	293	66.8	1.1
4	*5500.00	117.9 PK			1.56 V	293	116.7	1.2
5	*5500.00	108.8 AV			1.56 V	293	107.6	1.2
6	11000.00	56.1 PK	74.0	-17.9	1.50 V	238	44.0	12.1
7	11000.00	43.9 AV	54.0	-10.1	1.50 V	238	31.8	12.1
8	#16500.00	55.5 PK	68.2	-12.7	1.56 V	132	41.4	14.1

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.

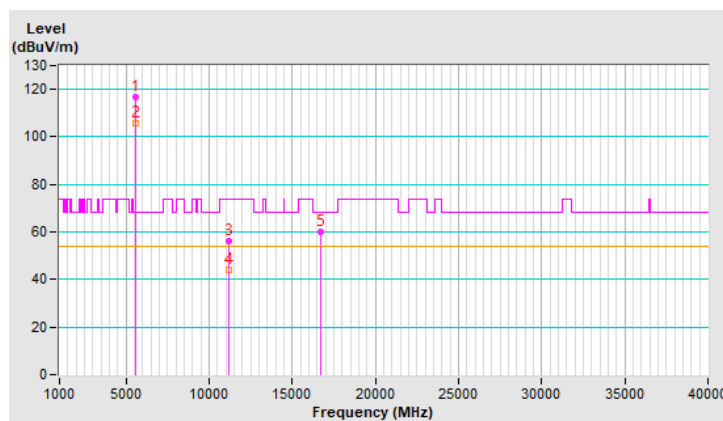


RF Mode	802.11a	Channel	CH 116 : 5580 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Tom Yang		

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	116.6 PK			2.13 H	102	115.5	1.1
2	*5580.00	105.8 AV			2.13 H	102	104.7	1.1
3	11160.00	56.0 PK	74.0	-18.0	1.93 H	152	44.7	11.3
4	11160.00	44.3 AV	54.0	-9.7	1.93 H	152	33.0	11.3
5	#16740.00	60.1 PK	68.2	-8.1	1.50 H	231	45.2	14.9

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.

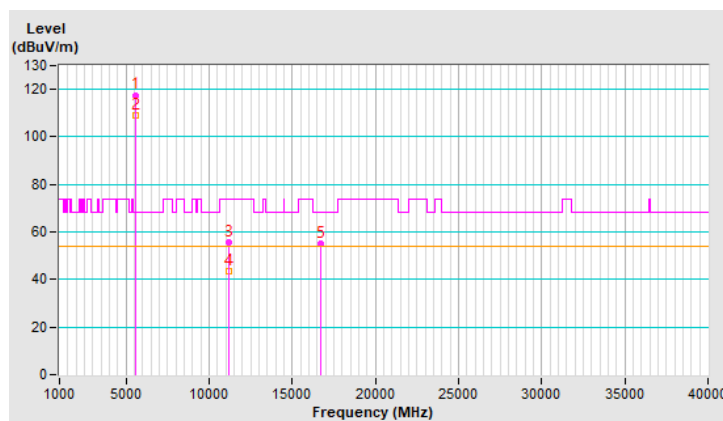


RF Mode	802.11a	Channel	CH 116 : 5580 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Tom Yang		

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	117.6 PK			1.40 V	299	116.5	1.1
2	*5580.00	108.9 AV			1.40 V	299	107.8	1.1
3	11160.00	55.5 PK	74.0	-18.5	1.50 V	258	44.2	11.3
4	11160.00	43.3 AV	54.0	-10.7	1.50 V	258	32.0	11.3
5	#16740.00	55.1 PK	68.2	-13.1	1.60 V	129	40.2	14.9

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.

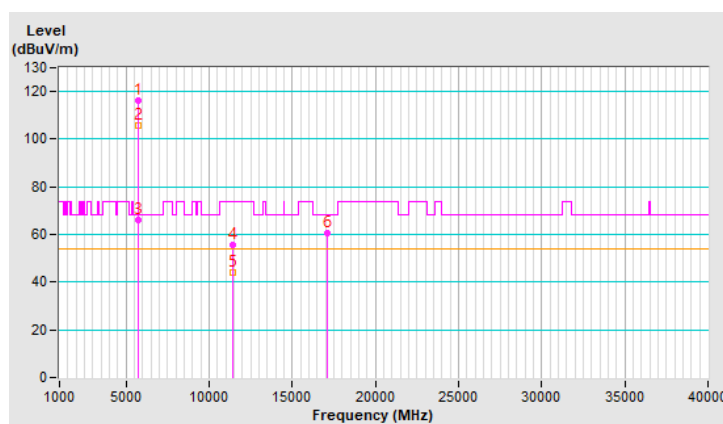


RF Mode	802.11a	Channel	CH 140 : 5700 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Tom Yang		

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	116.3 PK			2.14 H	82	114.8	1.5
2	*5700.00	105.8 AV			2.14 H	82	104.3	1.5
3	#5725.00	66.3 PK	68.2	-1.9	2.14 H	82	64.7	1.6
4	11400.00	55.6 PK	74.0	-18.4	1.91 H	135	43.6	12.0
5	11400.00	44.1 AV	54.0	-9.9	1.91 H	135	32.1	12.0
6	#17100.00	60.6 PK	68.2	-7.6	1.48 H	226	45.0	15.6

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.

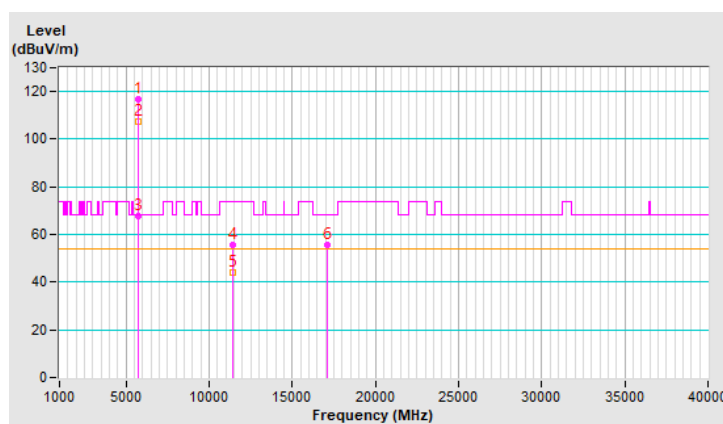


RF Mode	802.11a	Channel	CH 140 : 5700 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Tom Yang		

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	116.9 PK			1.48 V	324	115.4	1.5
2	*5700.00	107.4 AV			1.48 V	324	105.9	1.5
3	#5725.00	67.8 PK	68.2	-0.4	1.48 V	324	66.2	1.6
4	11400.00	55.5 PK	74.0	-18.5	1.54 V	230	43.5	12.0
5	11400.00	43.8 AV	54.0	-10.2	1.54 V	230	31.8	12.0
6	#17100.00	55.7 PK	68.2	-12.5	1.60 V	110	40.1	15.6

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.

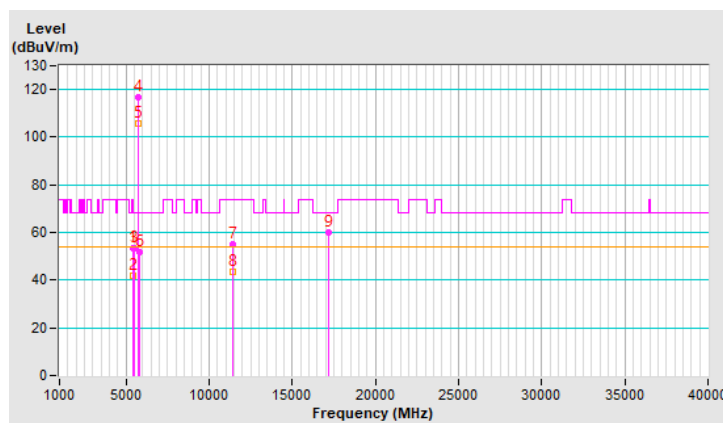


RF Mode	802.11a	Channel	CH 144 : 5720 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Tom Yang		

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	53.5 PK	74.0	-20.5	2.23 H	88	52.4	1.1
2	5460.00	41.9 AV	54.0	-12.1	2.23 H	88	40.8	1.1
3	#5470.00	53.2 PK	68.2	-15.0	2.23 H	88	52.1	1.1
4	*5720.00	116.7 PK			2.23 H	88	115.1	1.6
5	*5720.00	105.7 AV			2.23 H	88	104.1	1.6
6	#5850.00	52.0 PK	68.2	-16.2	2.23 H	88	49.9	2.1
7	11440.00	55.0 PK	74.0	-19.0	1.92 H	137	43.1	11.9
8	11440.00	43.6 AV	54.0	-10.4	1.92 H	137	31.7	11.9
9	#17160.00	59.8 PK	68.2	-8.4	1.49 H	226	44.2	15.6

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.

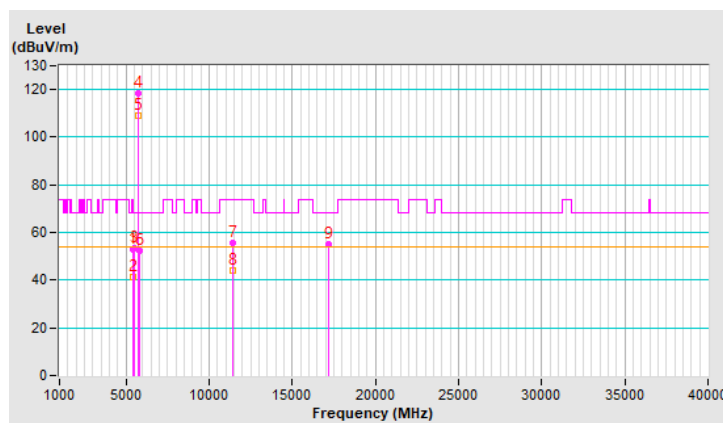


RF Mode	802.11a	Channel	CH 144 : 5720 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Tom Yang		

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	52.9 PK	74.0	-21.1	1.51 V	280	51.8	1.1
2	5460.00	41.5 AV	54.0	-12.5	1.51 V	280	40.4	1.1
3	#5470.00	53.2 PK	68.2	-15.0	1.51 V	280	52.1	1.1
4	*5720.00	118.4 PK			1.51 V	280	116.8	1.6
5	*5720.00	109.2 AV			1.51 V	280	107.6	1.6
6	#5850.00	52.4 PK	68.2	-15.8	1.51 V	280	50.3	2.1
7	11440.00	55.7 PK	74.0	-18.3	1.59 V	215	43.8	11.9
8	11440.00	44.3 AV	54.0	-9.7	1.59 V	215	32.4	11.9
9	#17160.00	55.3 PK	68.2	-12.9	1.64 V	103	39.7	15.6

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.

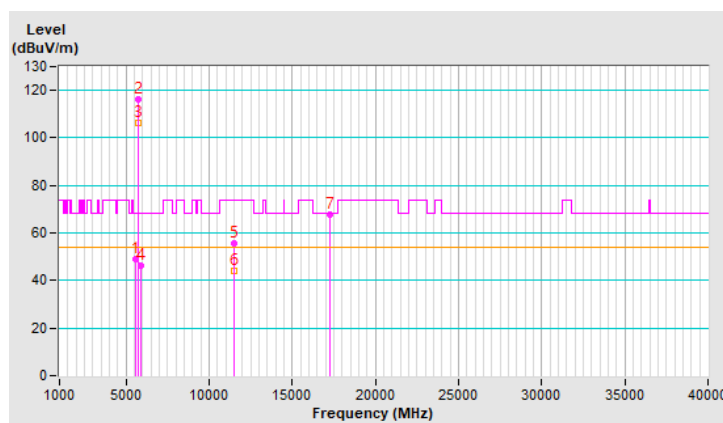


RF Mode	802.11a	Channel	CH 149 : 5745 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Tom Yang		

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	#5596.98	49.1 PK	68.2	-19.1	2.19 H	100	48.0	1.1
2	*5745.00	116.0 PK			2.19 H	100	114.4	1.6
3	*5745.00	106.5 AV			2.19 H	100	104.9	1.6
4	#5931.95	46.3 PK	68.2	-21.9	2.19 H	100	44.2	2.1
5	11490.00	55.4 PK	74.0	-18.6	1.92 H	148	43.5	11.9
6	11490.00	43.8 AV	54.0	-10.2	1.92 H	148	31.9	11.9
7	#17235.00	67.9 PK	68.2	-0.3	1.73 H	139	52.4	15.5

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.

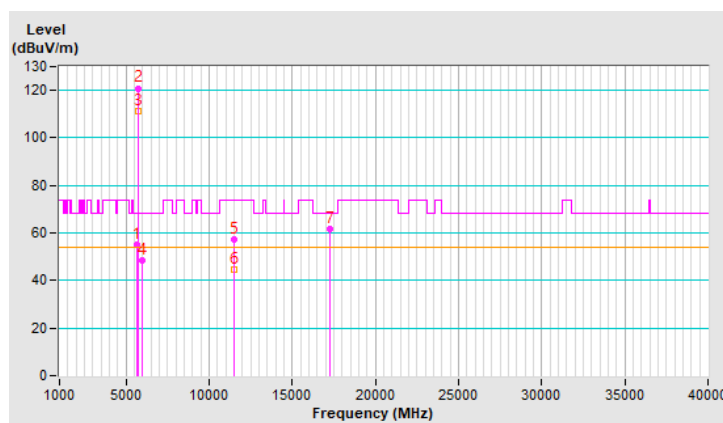


RF Mode	802.11a	Channel	CH 149 : 5745 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Tom Yang		

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	#5625.85	55.1 PK	68.2	-13.1	1.92 V	282	53.7	1.4
2	*5745.00	120.9 PK			1.92 V	282	119.3	1.6
3	*5745.00	111.0 AV			1.92 V	282	109.4	1.6
4	#5953.44	48.7 PK	68.2	-19.5	1.92 V	282	46.5	2.2
5	11490.00	57.4 PK	74.0	-16.6	1.58 V	283	45.5	11.9
6	11490.00	44.5 AV	54.0	-9.5	1.58 V	283	32.6	11.9
7	#17235.00	61.6 PK	68.2	-6.6	2.29 V	51	46.1	15.5

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.

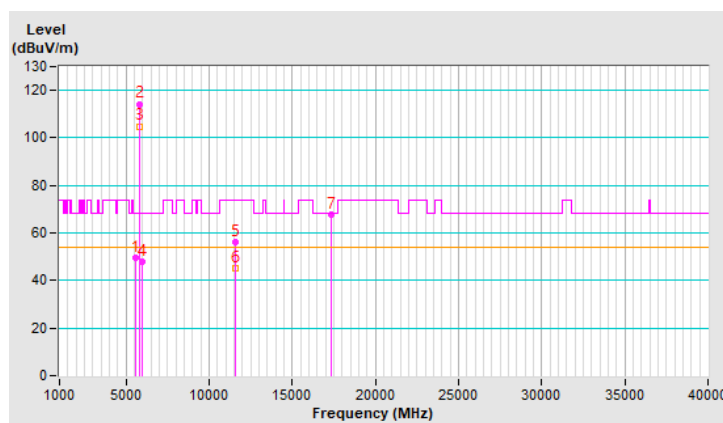


RF Mode	802.11a	Channel	CH 157 : 5785 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Tom Yang		

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	#5585.84	49.4 PK	68.2	-18.8	2.22 H	78	48.3	1.1
2	*5785.00	114.3 PK			2.22 H	78	112.5	1.8
3	*5785.00	104.9 AV			2.22 H	78	103.1	1.8
4	#5968.50	47.8 PK	68.2	-20.4	2.22 H	78	45.6	2.2
5	11570.00	56.3 PK	74.0	-17.7	2.61 H	229	44.6	11.7
6	11570.00	44.9 AV	54.0	-9.1	2.61 H	229	33.2	11.7
7	#17355.00	67.8 PK	68.2	-0.4	1.70 H	140	51.8	16.0

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.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.

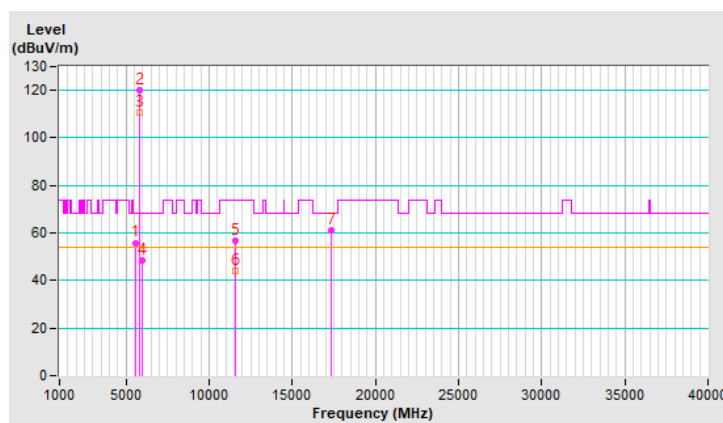


RF Mode	802.11a	Channel	CH 157 : 5785 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Tom Yang		

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	#5579.08	55.9 PK	68.2	-12.3	1.61 V	292	54.8	1.1
2	*5785.00	119.9 PK			1.61 V	292	118.1	1.8
3	*5785.00	110.5 AV			1.61 V	292	108.7	1.8
4	#5978.90	48.7 PK	68.2	-19.5	1.61 V	292	46.5	2.2
5	11570.00	56.9 PK	74.0	-17.1	1.60 V	280	45.2	11.7
6	11570.00	44.2 AV	54.0	-9.8	1.60 V	280	32.5	11.7
7	#17355.00	61.3 PK	68.2	-6.9	2.30 V	66	45.3	16.0

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.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

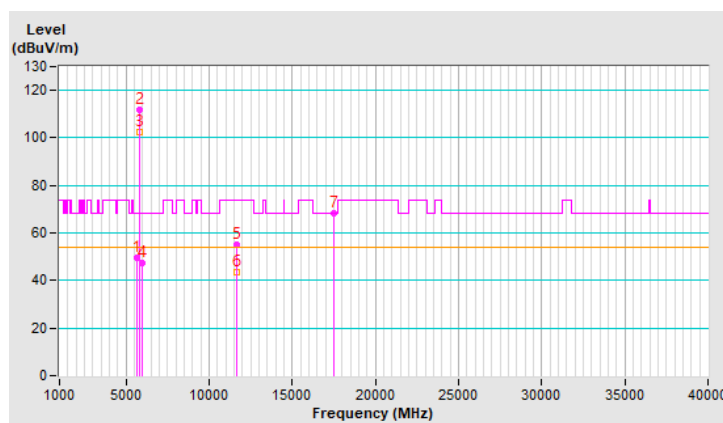


RF Mode	802.11a	Channel	CH 165 : 5825 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Tom Yang		

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	#5622.77	49.8 PK	68.2	-18.4	2.17 H	101	48.4	1.4
2	*5825.00	111.7 PK			2.17 H	101	109.7	2.0
3	*5825.00	102.4 AV			2.17 H	101	100.4	2.0
4	#6010.04	47.5 PK	68.2	-20.7	2.17 H	101	45.3	2.2
5	11650.00	54.9 PK	74.0	-19.1	1.96 H	153	43.2	11.7
6	11650.00	43.6 AV	54.0	-10.4	1.96 H	153	31.9	11.7
7	#17475.00	68.1 PK	68.2	-0.1	1.69 H	136	51.0	17.1

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.

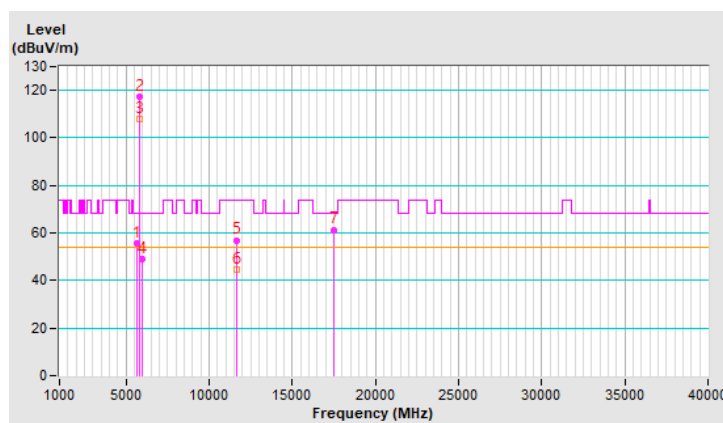


RF Mode	802.11a	Channel	CH 165 : 5825 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Tom Yang		

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	#5618.70	55.5 PK	68.2	-12.7	1.60 V	291	54.2	1.3
2	*5825.00	117.5 PK			1.60 V	291	115.5	2.0
3	*5825.00	108.1 AV			1.60 V	291	106.1	2.0
4	#5973.18	48.9 PK	68.2	-19.3	1.60 V	291	46.7	2.2
5	11650.00	57.0 PK	74.0	-17.0	1.61 V	280	45.3	11.7
6	11650.00	44.5 AV	54.0	-9.5	1.61 V	280	32.8	11.7
7	#17475.00	61.4 PK	68.2	-6.8	2.27 V	75	44.3	17.1

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.

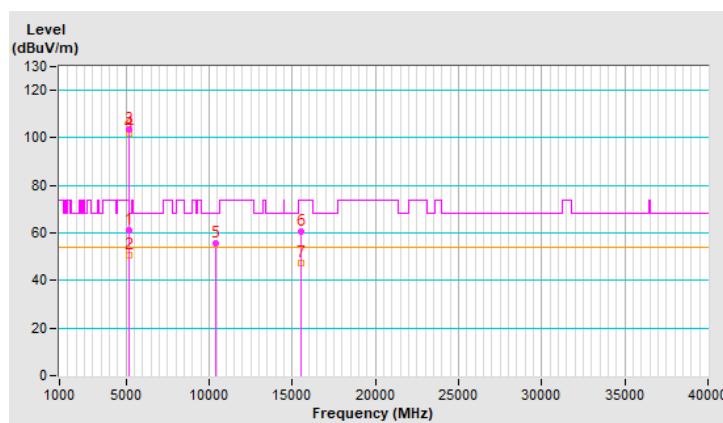


RF Mode	802.11ax (HE20)	Channel	CH 36 : 5180 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Tom Yang		

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	60.9 PK	74.0	-13.1	2.16 H	113	59.7	1.2
2	5150.00	50.8 AV	54.0	-3.2	2.16 H	113	49.6	1.2
3	*5180.00	103.4 PK			2.16 H	113	102.3	1.1
4	*5180.00	102.0 AV			2.16 H	113	100.9	1.1
5	#10360.00	55.8 PK	68.2	-12.4	1.93 H	155	44.7	11.1
6	15540.00	60.6 PK	74.0	-13.4	1.47 H	221	49.5	11.1
7	15540.00	47.4 AV	54.0	-6.6	1.47 H	221	36.3	11.1

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.

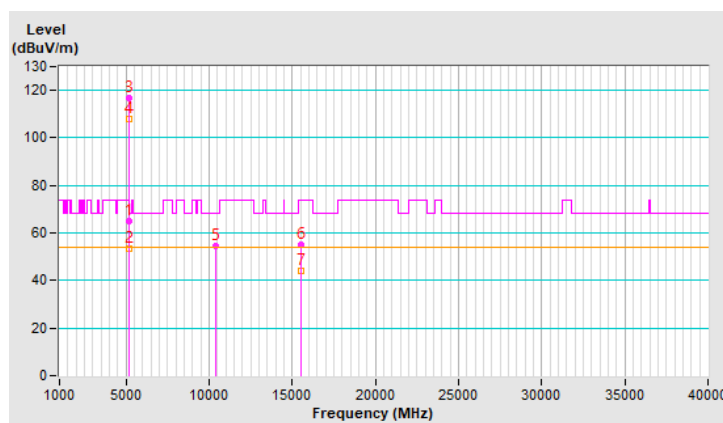


RF Mode	802.11ax (HE20)	Channel	CH 36 : 5180 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Tom Yang		

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	64.8 PK	74.0	-9.2	1.59 V	328	63.6	1.2
2	5150.00	53.5 AV	54.0	-0.5	1.59 V	328	52.3	1.2
3	*5180.00	116.8 PK			1.59 V	328	115.7	1.1
4	*5180.00	108.0 AV			1.59 V	328	106.9	1.1
5	#10360.00	54.4 PK	68.2	-13.8	1.44 V	237	43.3	11.1
6	15540.00	55.0 PK	74.0	-19.0	1.51 V	126	43.9	11.1
7	15540.00	44.3 AV	54.0	-9.7	1.51 V	126	33.2	11.1

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.

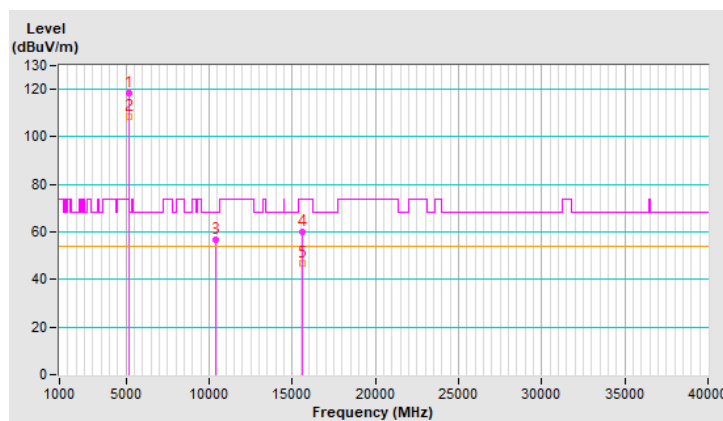


RF Mode	802.11ax (HE20)	Channel	CH 40 : 5200 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Tom Yang		

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	118.4 PK			2.11 H	124	117.5	0.9
2	*5200.00	108.3 AV			2.11 H	124	107.4	0.9
3	#10400.00	56.5 PK	68.2	-11.7	1.89 H	159	45.4	11.1
4	15600.00	60.0 PK	74.0	-14.0	1.48 H	228	48.9	11.1
5	15600.00	47.0 AV	54.0	-7.0	1.48 H	228	35.9	11.1

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.

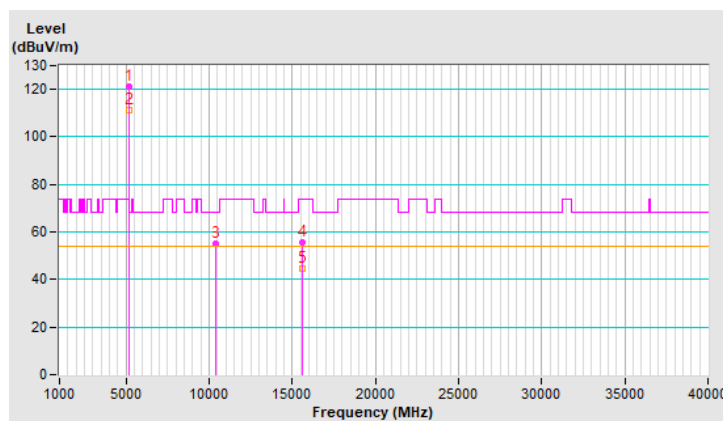


RF Mode	802.11ax (HE20)	Channel	CH 40 : 5200 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Tom Yang		

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	121.1 PK			1.57 V	341	120.2	0.9
2	*5200.00	111.1 AV			1.57 V	341	110.2	0.9
3	#10400.00	55.3 PK	68.2	-12.9	1.55 V	243	44.2	11.1
4	15600.00	55.7 PK	74.0	-18.3	1.49 V	133	44.6	11.1
5	15600.00	44.6 AV	54.0	-9.4	1.49 V	133	33.5	11.1

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.

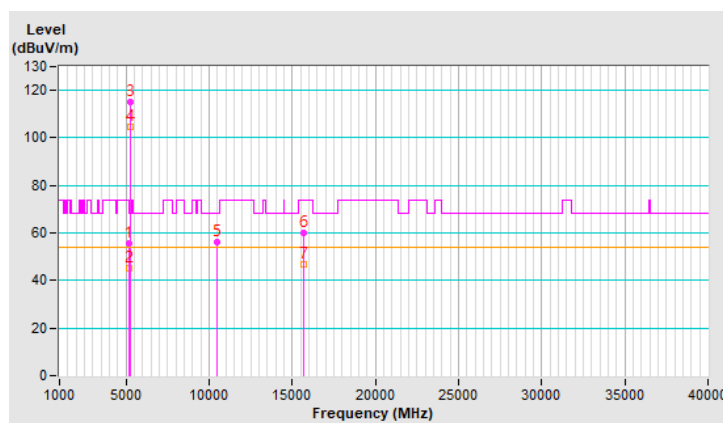


RF Mode	802.11ax (HE20)	Channel	CH 48 : 5240 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Tom Yang		

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	55.8 PK	74.0	-18.2	2.13 H	105	54.6	1.2
2	5150.00	45.1 AV	54.0	-8.9	2.13 H	105	43.9	1.2
3	*5240.00	115.3 PK			2.13 H	105	114.5	0.8
4	*5240.00	104.8 AV			2.13 H	105	104.0	0.8
5	#10480.00	56.1 PK	68.2	-12.1	1.89 H	165	44.8	11.3
6	15720.00	59.8 PK	74.0	-14.2	1.54 H	232	49.1	10.7
7	15720.00	46.8 AV	54.0	-7.2	1.54 H	232	36.1	10.7

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.

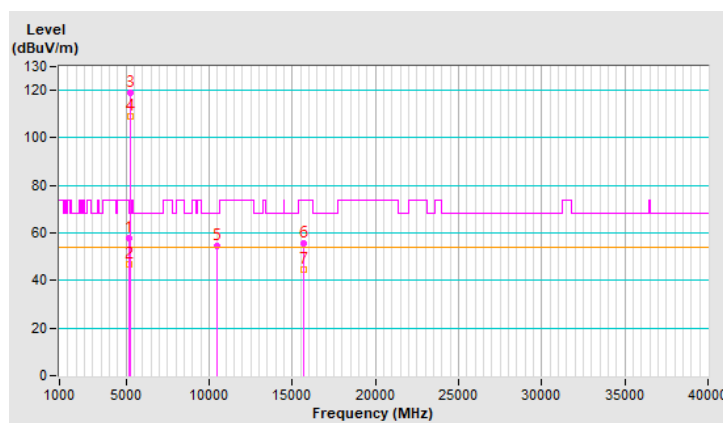


RF Mode	802.11ax (HE20)	Channel	CH 48 : 5240 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Tom Yang		

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	57.8 PK	74.0	-16.2	1.53 V	331	56.6	1.2
2	5150.00	47.0 AV	54.0	-7.0	1.53 V	331	45.8	1.2
3	*5240.00	119.2 PK			1.53 V	331	118.4	0.8
4	*5240.00	109.1 AV			1.53 V	331	108.3	0.8
5	#10480.00	54.3 PK	68.2	-13.9	1.55 V	223	43.0	11.3
6	15720.00	55.5 PK	74.0	-18.5	1.49 V	115	44.8	10.7
7	15720.00	44.5 AV	54.0	-9.5	1.49 V	115	33.8	10.7

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.

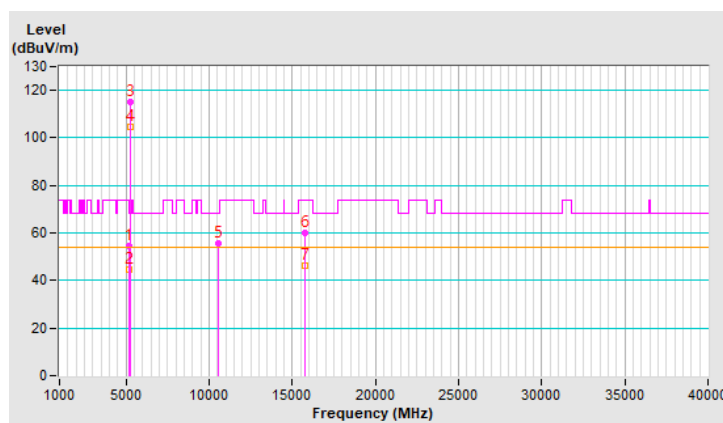


RF Mode	802.11ax (HE20)	Channel	CH 52 : 5260 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Tom Yang		

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	54.4 PK	74.0	-19.6	2.12 H	108	53.2	1.2
2	5150.00	44.4 AV	54.0	-9.6	2.12 H	108	43.2	1.2
3	*5260.00	115.0 PK			2.12 H	108	114.2	0.8
4	*5260.00	104.6 AV			2.12 H	108	103.8	0.8
5	#10520.00	55.7 PK	68.2	-12.5	1.87 H	140	44.3	11.4
6	15780.00	59.9 PK	74.0	-14.1	1.51 H	238	48.9	11.0
7	15780.00	46.5 AV	54.0	-7.5	1.51 H	238	35.5	11.0

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.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

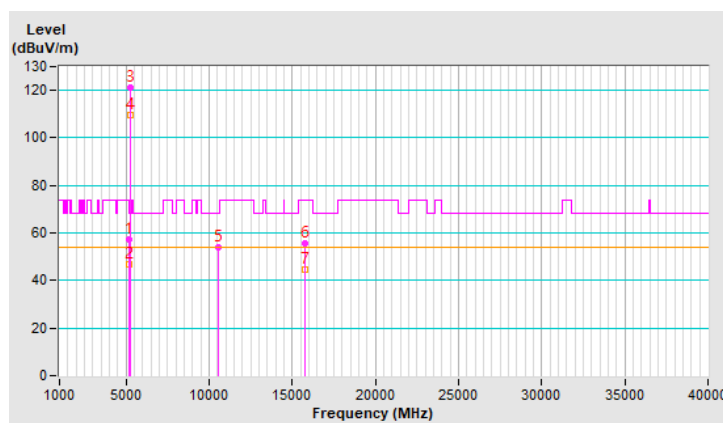


RF Mode	802.11ax (HE20)	Channel	CH 52 : 5260 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Tom Yang		

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	57.1 PK	74.0	-16.9	1.50 V	306	55.9	1.2
2	5150.00	46.9 AV	54.0	-7.1	1.50 V	306	45.7	1.2
3	*5260.00	121.2 PK			1.50 V	306	120.4	0.8
4	*5260.00	109.4 AV			1.50 V	306	108.6	0.8
5	#10520.00	54.2 PK	68.2	-14.0	1.50 V	221	42.8	11.4
6	15780.00	55.7 PK	74.0	-18.3	1.52 V	121	44.7	11.0
7	15780.00	44.7 AV	54.0	-9.3	1.52 V	121	33.7	11.0

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.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

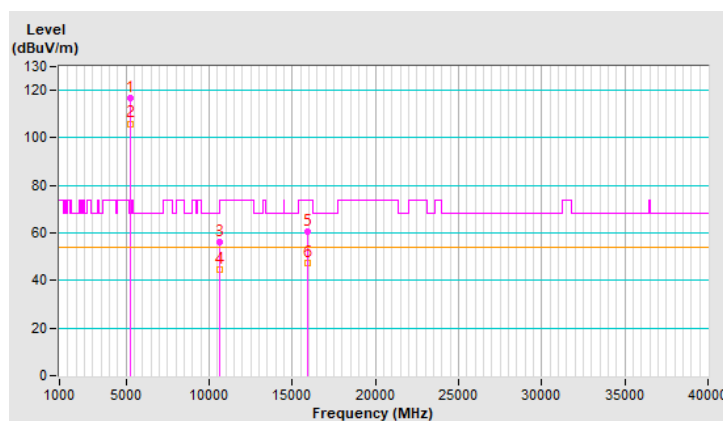


RF Mode	802.11ax (HE20)	Channel	CH 60 : 5300 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Tom Yang		

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	116.6 PK			2.12 H	93	115.8	0.8
2	*5300.00	106.0 AV			2.12 H	93	105.2	0.8
3	10600.00	56.1 PK	74.0	-17.9	1.93 H	142	45.2	10.9
4	10600.00	44.4 AV	54.0	-9.6	1.93 H	142	33.5	10.9
5	15900.00	60.7 PK	74.0	-13.3	1.47 H	224	49.4	11.3
6	15900.00	47.4 AV	54.0	-6.6	1.47 H	224	36.1	11.3

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.

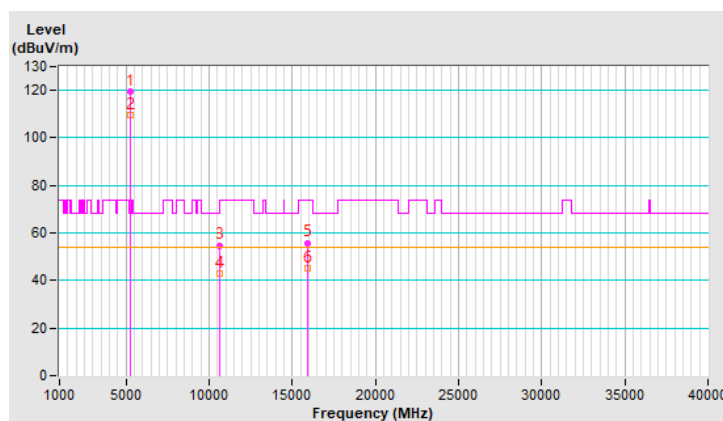


RF Mode	802.11ax (HE20)	Channel	CH 60 : 5300 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Tom Yang		

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	119.4 PK			1.48 V	337	118.6	0.8
2	*5300.00	109.4 AV			1.48 V	337	108.6	0.8
3	10600.00	54.8 PK	74.0	-19.2	1.49 V	241	43.9	10.9
4	10600.00	43.0 AV	54.0	-11.0	1.49 V	241	32.1	10.9
5	15900.00	55.9 PK	74.0	-18.1	1.49 V	136	44.6	11.3
6	15900.00	44.9 AV	54.0	-9.1	1.49 V	136	33.6	11.3

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.

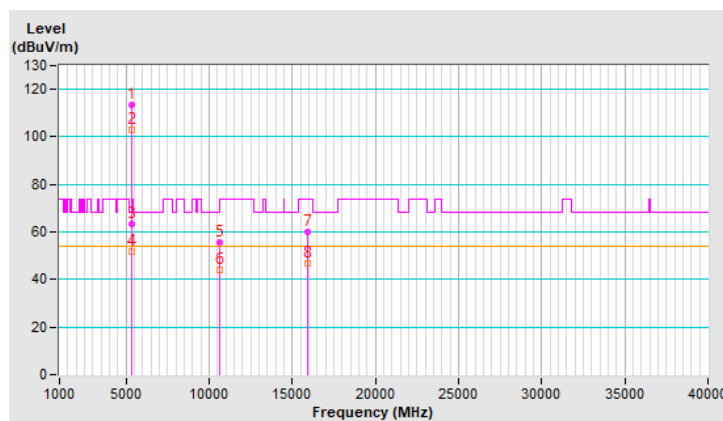


RF Mode	802.11ax (HE20)	Channel	CH 64 : 5320 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Tom Yang		

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	113.5 PK			2.08 H	83	112.6	0.9
2	*5320.00	102.9 AV			2.08 H	83	102.0	0.9
3	5352.86	63.1 PK	74.0	-10.9	2.08 H	83	62.1	1.0
4	5352.86	51.7 AV	54.0	-2.3	2.08 H	83	50.7	1.0
5	10640.00	55.8 PK	74.0	-18.2	1.98 H	162	44.8	11.0
6	10640.00	44.0 AV	54.0	-10.0	1.98 H	162	33.0	11.0
7	15960.00	60.1 PK	74.0	-13.9	1.55 H	226	48.4	11.7
8	15960.00	47.0 AV	54.0	-7.0	1.55 H	226	35.3	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.

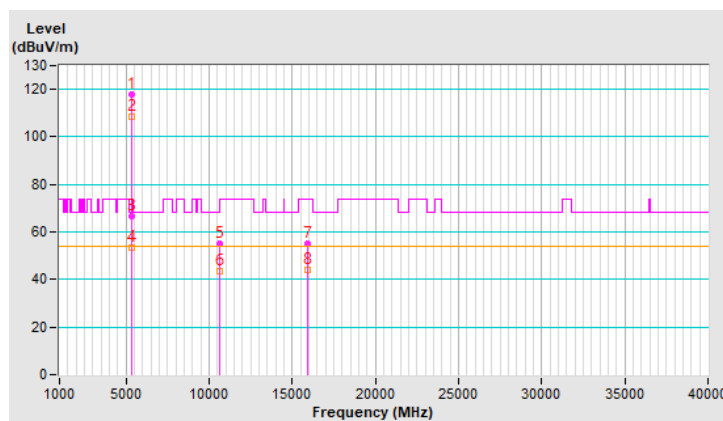


RF Mode	802.11ax (HE20)	Channel	CH 64 : 5320 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Tom Yang		

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	117.8 PK			1.58 V	306	116.9	0.9
2	*5320.00	108.6 AV			1.58 V	306	107.7	0.9
3	5350.00	66.7 PK	74.0	-7.3	1.58 V	306	65.7	1.0
4	5350.00	53.5 AV	54.0	-0.5	1.58 V	306	52.5	1.0
5	10640.00	55.3 PK	74.0	-18.7	1.54 V	214	44.3	11.0
6	10640.00	43.5 AV	54.0	-10.5	1.54 V	214	32.5	11.0
7	15960.00	55.1 PK	74.0	-18.9	1.49 V	139	43.4	11.7
8	15960.00	44.3 AV	54.0	-9.7	1.49 V	139	32.6	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.

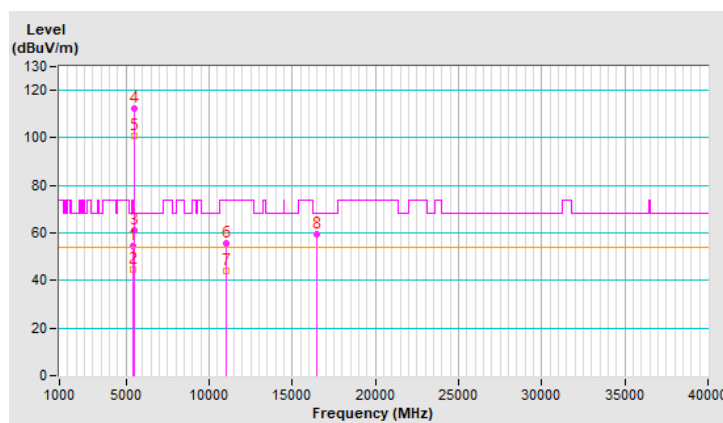


RF Mode	802.11ax (HE20)	Channel	CH 100 : 5500 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Tom Yang		

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	54.7 PK	74.0	-19.3	2.06 H	81	53.6	1.1
2	5460.00	44.7 AV	54.0	-9.3	2.06 H	81	43.6	1.1
3	#5468.23	61.1 PK	68.2	-7.1	2.06 H	81	60.0	1.1
4	*5500.00	112.4 PK			2.06 H	81	111.2	1.2
5	*5500.00	101.0 AV			2.06 H	81	99.8	1.2
6	11000.00	55.6 PK	74.0	-18.4	1.89 H	165	43.5	12.1
7	11000.00	44.2 AV	54.0	-9.8	1.89 H	165	32.1	12.1
8	#16500.00	59.3 PK	68.2	-8.9	1.52 H	235	45.2	14.1

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.

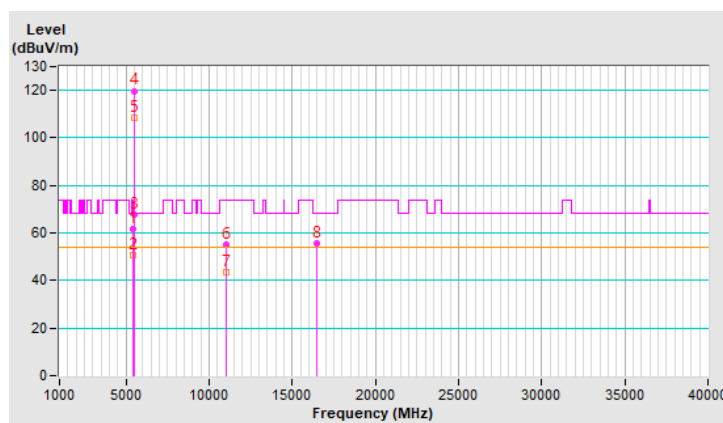


RF Mode	802.11ax (HE20)	Channel	CH 100 : 5500 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Tom Yang		

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	61.9 PK	74.0	-12.1	1.41 V	328	60.8	1.1
2	5460.00	50.9 AV	54.0	-3.1	1.41 V	328	49.8	1.1
3	#5470.00	67.6 PK	68.2	-0.6	1.41 V	328	66.5	1.1
4	*5500.00	119.8 PK			1.41 V	328	118.6	1.2
5	*5500.00	108.5 AV			1.41 V	328	107.3	1.2
6	11000.00	54.9 PK	74.0	-19.1	1.43 V	228	42.8	12.1
7	11000.00	43.3 AV	54.0	-10.7	1.43 V	228	31.2	12.1
8	#16500.00	55.5 PK	68.2	-12.7	1.44 V	134	41.4	14.1

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.

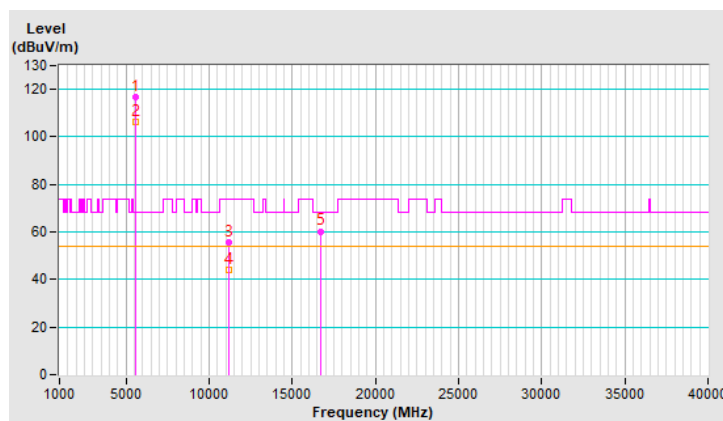


RF Mode	802.11ax (HE20)	Channel	CH 116 : 5580 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Tom Yang		

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	116.9 PK			2.19 H	90	115.8	1.1
2	*5580.00	106.1 AV			2.19 H	90	105.0	1.1
3	11160.00	55.8 PK	74.0	-18.2	1.96 H	150	44.5	11.3
4	11160.00	44.0 AV	54.0	-10.0	1.96 H	150	32.7	11.3
5	#16740.00	60.3 PK	68.2	-7.9	1.46 H	244	45.4	14.9

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.

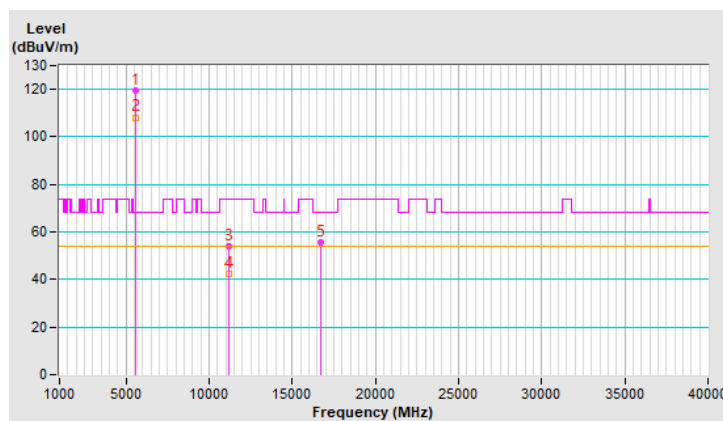


RF Mode	802.11ax (HE20)	Channel	CH 116 : 5580 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Tom Yang		

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	119.5 PK			1.46 V	333	118.4	1.1
2	*5580.00	108.2 AV			1.46 V	333	107.1	1.1
3	11160.00	54.0 PK	74.0	-20.0	1.48 V	220	42.7	11.3
4	11160.00	42.6 AV	54.0	-11.4	1.48 V	220	31.3	11.3
5	#16740.00	55.5 PK	68.2	-12.7	1.47 V	127	40.6	14.9

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.

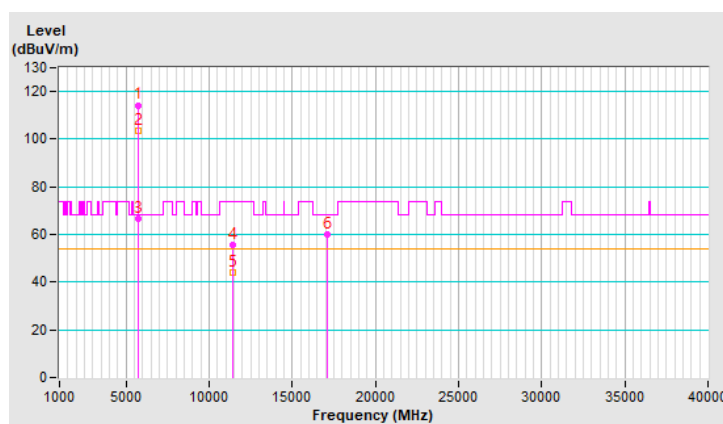


RF Mode	802.11ax (HE20)	Channel	CH 140 : 5700 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Tom Yang		

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	114.3 PK			2.13 H	116	112.8	1.5
2	*5700.00	103.7 AV			2.13 H	116	102.2	1.5
3	#5725.00	66.4 PK	68.2	-1.8	2.13 H	116	64.8	1.6
4	11400.00	55.6 PK	74.0	-18.4	1.95 H	143	43.6	12.0
5	11400.00	44.2 AV	54.0	-9.8	1.95 H	143	32.2	12.0
6	#17100.00	60.1 PK	68.2	-8.1	1.46 H	221	44.5	15.6

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.

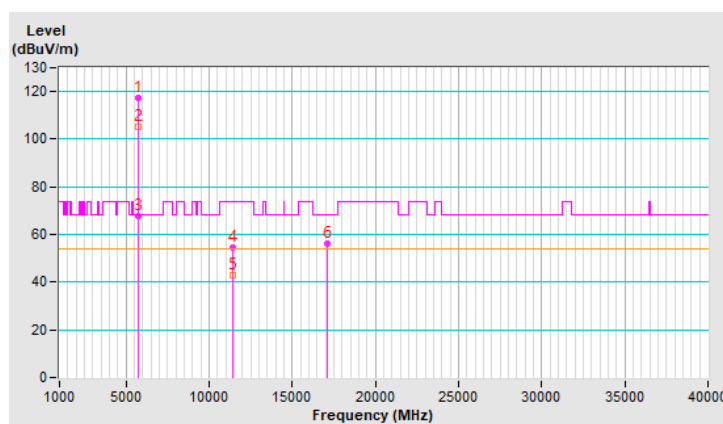


RF Mode	802.11ax (HE20)	Channel	CH 140 : 5700 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Tom Yang		

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	117.1 PK			1.57 V	287	115.6	1.5
2	*5700.00	105.2 AV			1.57 V	287	103.7	1.5
3	#5725.00	67.9 PK	68.2	-0.3	1.57 V	287	66.3	1.6
4	11400.00	54.4 PK	74.0	-19.6	1.48 V	226	42.4	12.0
5	11400.00	42.8 AV	54.0	-11.2	1.48 V	226	30.8	12.0
6	#17100.00	56.1 PK	68.2	-12.1	1.49 V	121	40.5	15.6

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.

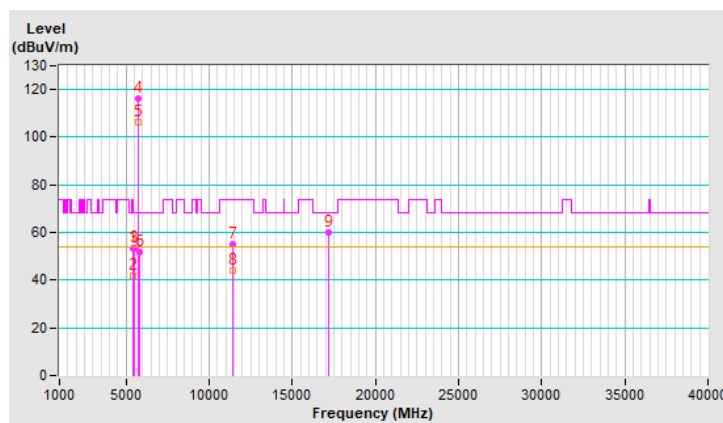


RF Mode	802.11ax (HE20)	Channel	CH 144 : 5720 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Tom Yang		

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	53.2 PK	74.0	-20.8	2.01 H	132	52.1	1.1
2	5460.00	41.6 AV	54.0	-12.4	2.01 H	132	40.5	1.1
3	#5470.00	53.6 PK	68.2	-14.6	2.01 H	132	52.5	1.1
4	*5720.00	116.4 PK			2.01 H	132	114.8	1.6
5	*5720.00	106.1 AV			2.01 H	132	104.5	1.6
6	#5850.00	52.0 PK	68.2	-16.2	2.01 H	132	49.9	2.1
7	11440.00	55.3 PK	74.0	-18.7	1.96 H	165	43.4	11.9
8	11440.00	43.8 AV	54.0	-10.2	1.96 H	165	31.9	11.9
9	#17160.00	60.2 PK	68.2	-8.0	1.45 H	243	44.6	15.6

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.

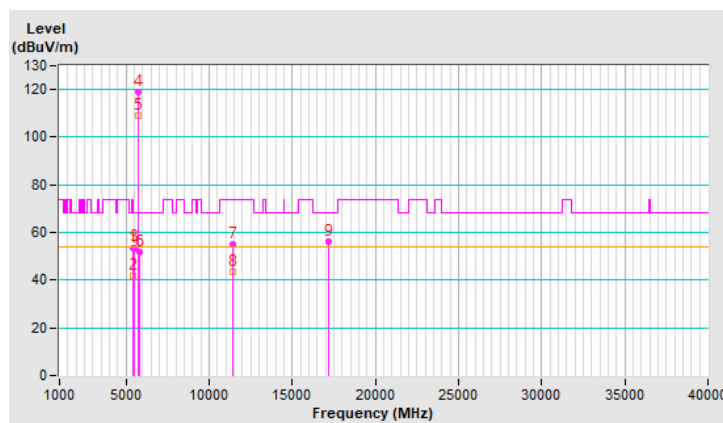


RF Mode	802.11ax (HE20)	Channel	CH 144 : 5720 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Tom Yang		

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	53.3 PK	74.0	-20.7	1.42 V	345	52.2	1.1
2	5460.00	41.9 AV	54.0	-12.1	1.42 V	345	40.8	1.1
3	#5470.00	53.7 PK	68.2	-14.5	1.42 V	345	52.6	1.1
4	*5720.00	119.2 PK			1.42 V	345	117.6	1.6
5	*5720.00	109.0 AV			1.42 V	345	107.4	1.6
6	#5850.00	52.0 PK	68.2	-16.2	1.42 V	345	49.9	2.1
7	11440.00	55.0 PK	74.0	-19.0	1.53 V	242	43.1	11.9
8	11440.00	43.4 AV	54.0	-10.6	1.53 V	242	31.5	11.9
9	#17160.00	56.0 PK	68.2	-12.2	1.51 V	132	40.4	15.6

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.

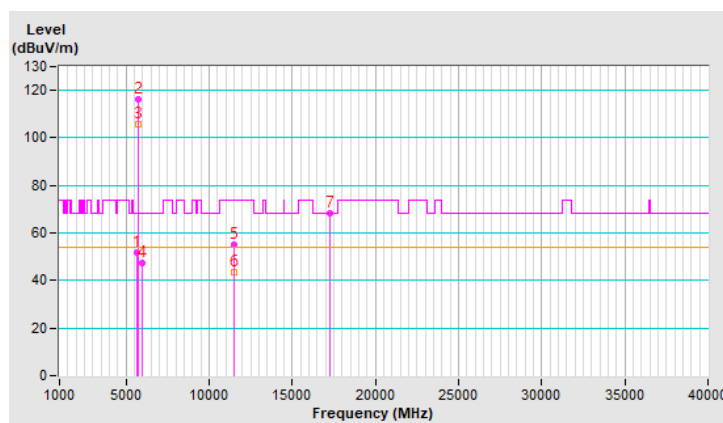


RF Mode	802.11ax (HE20)	Channel	CH 149 : 5745 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Tom Yang		

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	#5648.32	51.9 PK	68.2	-16.3	1.61 H	107	50.4	1.5
2	*5745.00	116.4 PK			1.61 H	107	114.8	1.6
3	*5745.00	105.6 AV			1.61 H	107	104.0	1.6
4	#6001.27	47.5 PK	68.2	-20.7	1.61 H	107	45.3	2.2
5	11490.00	54.9 PK	74.0	-19.1	2.02 H	155	43.0	11.9
6	11490.00	43.7 AV	54.0	-10.3	2.02 H	155	31.8	11.9
7	#17235.00	68.1 PK	68.2	-0.1	1.73 H	137	52.6	15.5

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.

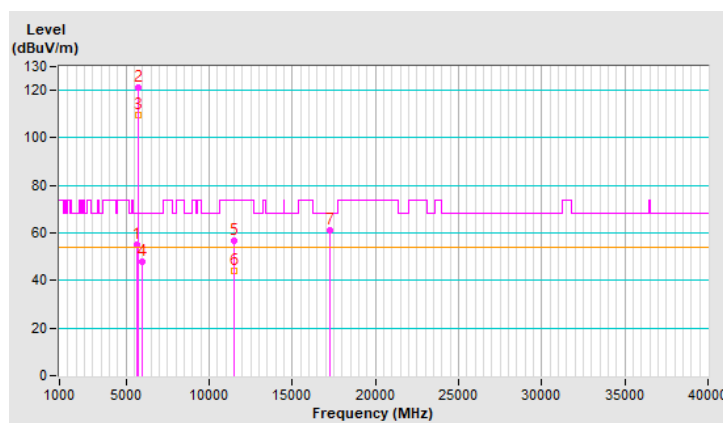


RF Mode	802.11ax (HE20)	Channel	CH 149 : 5745 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Tom Yang		

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	#5637.41	54.9 PK	68.2	-13.3	1.62 V	291	53.5	1.4
2	*5745.00	121.3 PK			1.62 V	291	119.7	1.6
3	*5745.00	109.5 AV			1.62 V	291	107.9	1.6
4	#5999.88	48.1 PK	68.2	-20.1	1.62 V	291	45.9	2.2
5	11490.00	56.7 PK	74.0	-17.3	1.66 V	295	44.8	11.9
6	11490.00	44.1 AV	54.0	-9.9	1.66 V	295	32.2	11.9
7	#17235.00	61.0 PK	68.2	-7.2	2.23 V	80	45.5	15.5

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.

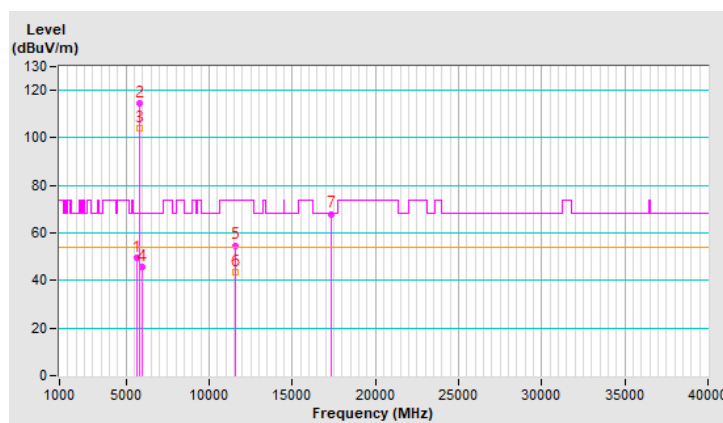


RF Mode	802.11ax (HE20)	Channel	CH 157 : 5785 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Tom Yang		

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	#5627.02	49.6 PK	68.2	-18.6	1.59 H	104	48.2	1.4
2	*5785.00	114.8 PK			1.59 H	104	113.0	1.8
3	*5785.00	104.3 AV			1.59 H	104	102.5	1.8
4	#6006.38	45.8 PK	68.2	-22.4	1.59 H	104	43.6	2.2
5	11570.00	54.8 PK	74.0	-19.2	2.00 H	153	43.1	11.7
6	11570.00	43.7 AV	54.0	-10.3	2.00 H	153	32.0	11.7
7	#17355.00	68.0 PK	68.2	-0.2	1.68 H	139	52.0	16.0

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.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.

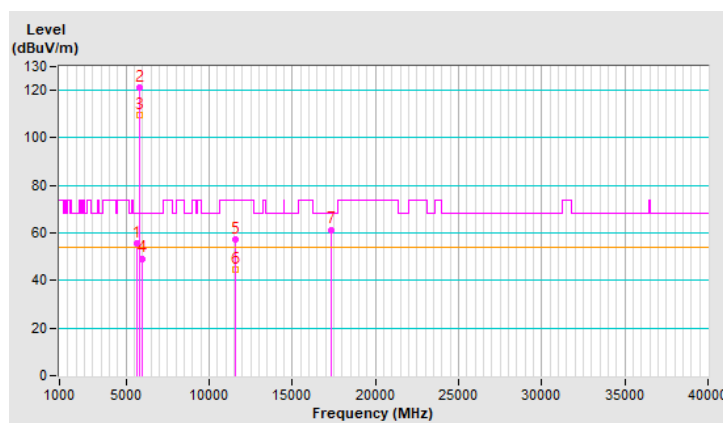


RF Mode	802.11ax (HE20)	Channel	CH 157 : 5785 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Tom Yang		

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	#5627.79	55.6 PK	68.2	-12.6	1.61 V	292	54.2	1.4
2	*5785.00	121.0 PK			1.61 V	292	119.2	1.8
3	*5785.00	109.8 AV			1.61 V	292	108.0	1.8
4	#5970.80	49.3 PK	68.2	-18.9	1.61 V	292	47.1	2.2
5	11570.00	57.1 PK	74.0	-16.9	1.66 V	288	45.4	11.7
6	11570.00	44.4 AV	54.0	-9.6	1.66 V	288	32.7	11.7
7	#17355.00	61.4 PK	68.2	-6.8	2.30 V	78	45.4	16.0

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.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

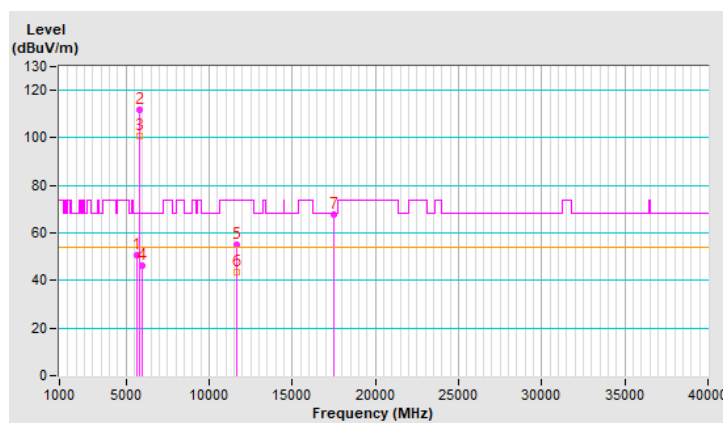


RF Mode	802.11ax (HE20)	Channel	CH 165 : 5825 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Tom Yang		

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	#5644.00	50.8 PK	68.2	-17.4	1.58 H	108	49.3	1.5
2	*5825.00	111.7 PK			1.58 H	108	109.7	2.0
3	*5825.00	100.8 AV			1.58 H	108	98.8	2.0
4	#5955.94	46.4 PK	68.2	-21.8	1.58 H	108	44.2	2.2
5	11650.00	55.0 PK	74.0	-19.0	1.93 H	151	43.3	11.7
6	11650.00	43.5 AV	54.0	-10.5	1.93 H	151	31.8	11.7
7	#17475.00	67.9 PK	68.2	-0.3	1.47 H	135	50.8	17.1

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.

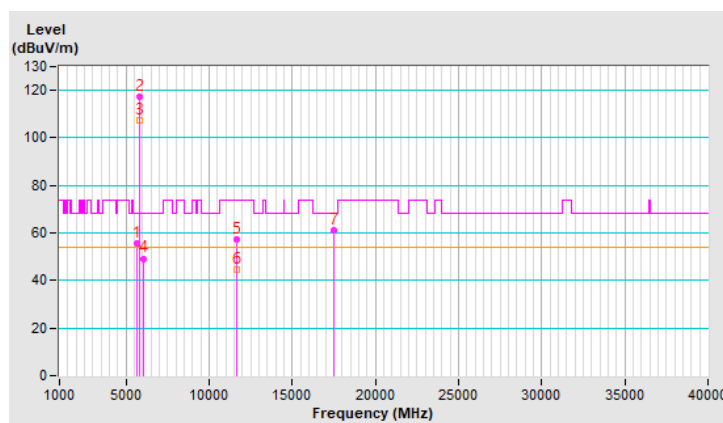


RF Mode	802.11ax (HE20)	Channel	CH 165 : 5825 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Tom Yang		

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	#5631.77	55.4 PK	68.2	-12.8	1.58 V	292	54.0	1.4
2	*5825.00	117.2 PK			1.58 V	292	115.2	2.0
3	*5825.00	107.2 AV			1.58 V	292	105.2	2.0
4	#6016.43	49.3 PK	68.2	-18.9	1.58 V	292	47.1	2.2
5	11650.00	57.4 PK	74.0	-16.6	1.58 V	286	45.7	11.7
6	11650.00	44.7 AV	54.0	-9.3	1.58 V	286	33.0	11.7
7	#17475.00	61.1 PK	68.2	-7.1	2.23 V	73	44.0	17.1

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.

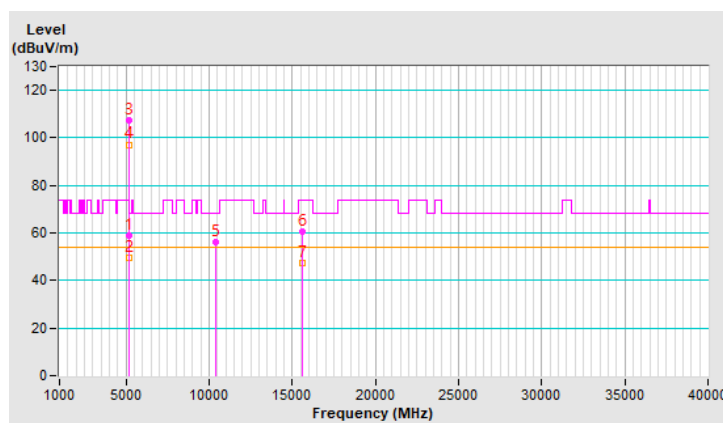


RF Mode	802.11ax (HE40)	Channel	CH 38 : 5190 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Tom Yang		

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	5147.86	58.7 PK	74.0	-15.3	2.15 H	66	57.5	1.2
2	5147.86	49.4 AV	54.0	-4.6	2.15 H	66	48.2	1.2
3	*5190.00	107.3 PK			2.15 H	66	106.3	1.0
4	*5190.00	97.2 AV			2.15 H	66	96.2	1.0
5	#10380.00	56.0 PK	68.2	-12.2	1.92 H	141	44.9	11.1
6	15570.00	60.4 PK	74.0	-13.6	1.49 H	244	49.4	11.0
7	15570.00	47.5 AV	54.0	-6.5	1.49 H	244	36.5	11.0

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.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

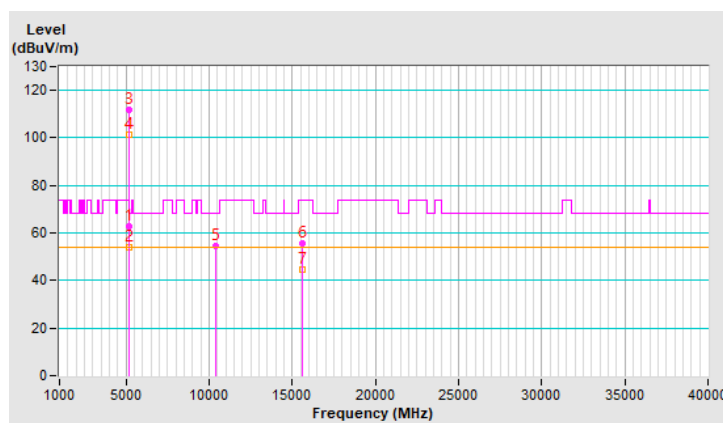


RF Mode	802.11ax (HE40)	Channel	CH 38 : 5190 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Tom Yang		

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	63.0 PK	74.0	-11.0	1.59 V	329	61.8	1.2
2	5150.00	53.8 AV	54.0	-0.2	1.59 V	329	52.6	1.2
3	*5190.00	111.8 PK			1.59 V	329	110.8	1.0
4	*5190.00	101.5 AV			1.59 V	329	100.5	1.0
5	#10380.00	54.5 PK	68.2	-13.7	1.50 V	248	43.4	11.1
6	15570.00	55.7 PK	74.0	-18.3	1.49 V	133	44.7	11.0
7	15570.00	44.6 AV	54.0	-9.4	1.49 V	133	33.6	11.0

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.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

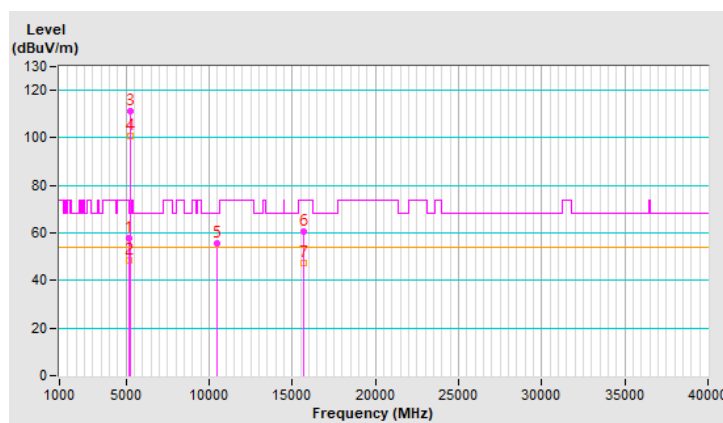


RF Mode	802.11ax (HE40)	Channel	CH 46 : 5230 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Tom Yang		

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	57.7 PK	74.0	-16.3	2.11 H	78	56.5	1.2
2	5150.00	48.5 AV	54.0	-5.5	2.11 H	78	47.3	1.2
3	*5230.00	111.0 PK			2.11 H	78	110.2	0.8
4	*5230.00	100.6 AV			2.11 H	78	99.8	0.8
5	#10460.00	55.7 PK	68.2	-12.5	1.94 H	159	44.4	11.3
6	15690.00	60.6 PK	74.0	-13.4	1.45 H	256	49.7	10.9
7	15690.00	47.4 AV	54.0	-6.6	1.45 H	256	36.5	10.9

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.

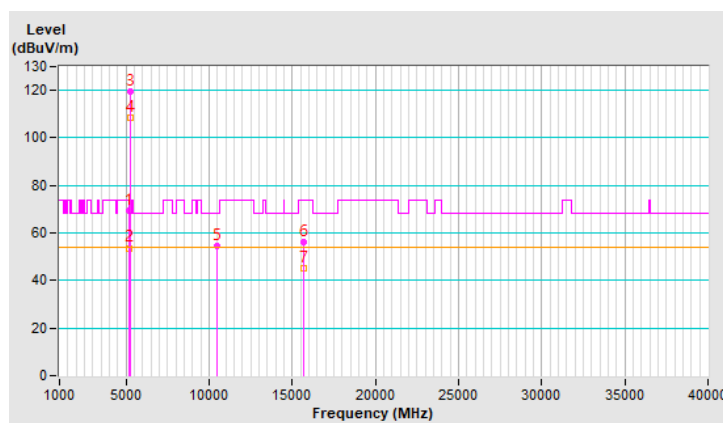


RF Mode	802.11ax (HE40)	Channel	CH 46 : 5230 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Tom Yang		

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	1.66 V	331	68.3	1.2
2	5150.00	53.7 AV	54.0	-0.3	1.66 V	331	52.5	1.2
3	*5230.00	119.4 PK			1.66 V	331	118.6	0.8
4	*5230.00	108.3 AV			1.66 V	331	107.5	0.8
5	#10460.00	54.5 PK	68.2	-13.7	1.47 V	256	43.2	11.3
6	15690.00	56.0 PK	74.0	-18.0	1.54 V	138	45.1	10.9
7	15690.00	44.9 AV	54.0	-9.1	1.54 V	138	34.0	10.9

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.

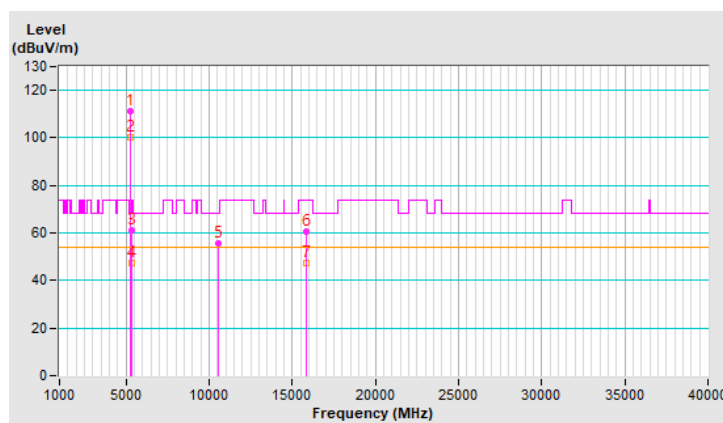


RF Mode	802.11ax (HE40)	Channel	CH 54 : 5270 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Tom Yang		

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	*5270.00	111.0 PK			2.09 H	89	110.2	0.8
2	*5270.00	100.4 AV			2.09 H	89	99.6	0.8
3	5350.00	61.0 PK	74.0	-13.0	2.09 H	89	60.0	1.0
4	5350.00	47.2 AV	54.0	-6.8	2.09 H	89	46.2	1.0
5	#10540.00	55.8 PK	68.2	-12.4	1.98 H	143	44.6	11.2
6	15810.00	60.5 PK	74.0	-13.5	1.47 H	235	49.5	11.0
7	15810.00	47.6 AV	54.0	-6.4	1.47 H	235	36.6	11.0

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.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

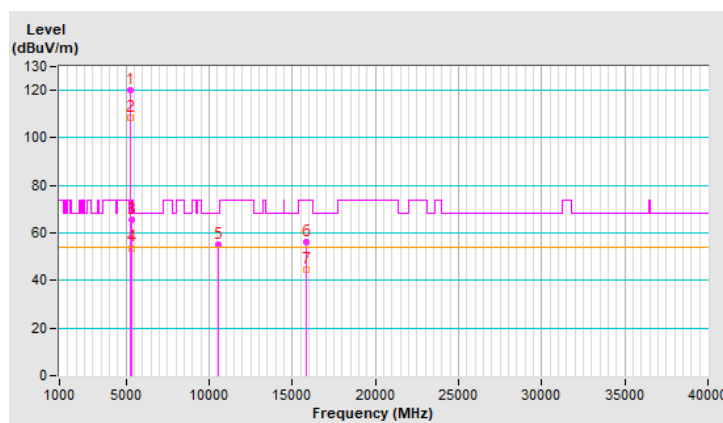


RF Mode	802.11ax (HE40)	Channel	CH 54 : 5270 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Tom Yang		

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	*5270.00	119.9 PK			1.48 V	329	119.1	0.8
2	*5270.00	108.4 AV			1.48 V	329	107.6	0.8
3	5350.00	65.7 PK	74.0	-8.3	1.48 V	329	64.7	1.0
4	5350.00	53.7 AV	54.0	-0.3	1.48 V	329	52.7	1.0
5	#10540.00	55.0 PK	68.2	-13.2	1.51 V	233	43.8	11.2
6	15810.00	56.0 PK	74.0	-18.0	1.49 V	148	45.0	11.0
7	15810.00	44.8 AV	54.0	-9.2	1.49 V	148	33.8	11.0

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.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

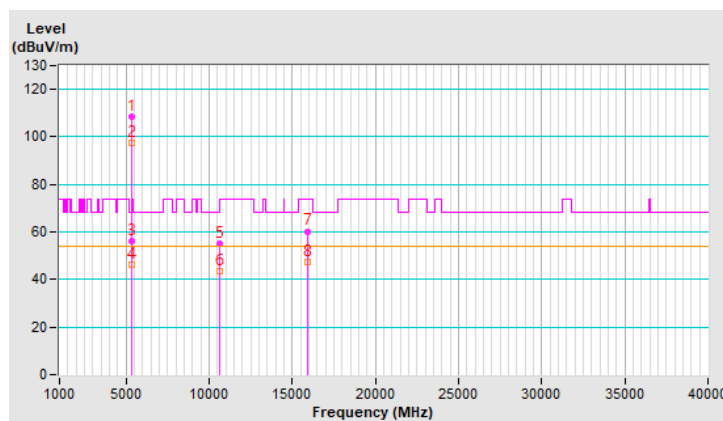


RF Mode	802.11ax (HE40)	Channel	CH 62 : 5310 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Tom Yang		

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	108.6 PK			2.15 H	85	107.8	0.8
2	*5310.00	97.5 AV			2.15 H	85	96.7	0.8
3	5353.25	56.0 PK	74.0	-18.0	2.15 H	85	55.0	1.0
4	5353.25	46.0 AV	54.0	-8.0	2.15 H	85	45.0	1.0
5	10620.00	55.2 PK	74.0	-18.8	1.96 H	136	44.2	11.0
6	10620.00	43.6 AV	54.0	-10.4	1.96 H	136	32.6	11.0
7	15930.00	60.3 PK	74.0	-13.7	1.46 H	242	48.8	11.5
8	15930.00	47.2 AV	54.0	-6.8	1.46 H	242	35.7	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.

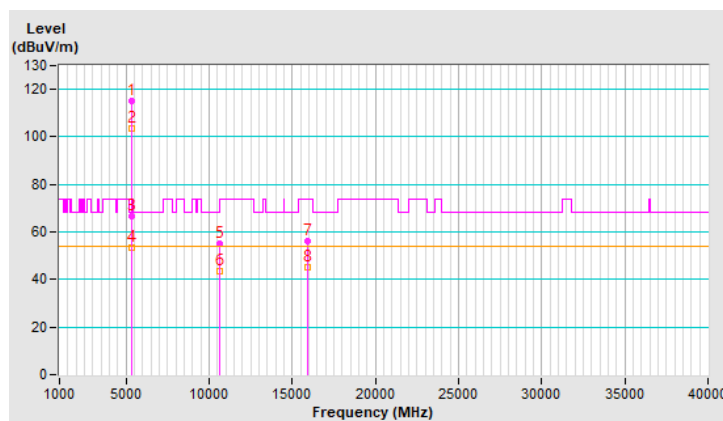


RF Mode	802.11ax (HE40)	Channel	CH 62 : 5310 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Tom Yang		

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	115.2 PK			1.42 V	328	114.4	0.8
2	*5310.00	103.5 AV			1.42 V	328	102.7	0.8
3	5350.00	66.4 PK	74.0	-7.6	1.42 V	328	65.4	1.0
4	5350.00	53.6 AV	54.0	-0.4	1.42 V	328	52.6	1.0
5	10620.00	54.9 PK	74.0	-19.1	1.48 V	227	43.9	11.0
6	10620.00	43.4 AV	54.0	-10.6	1.48 V	227	32.4	11.0
7	15930.00	56.3 PK	74.0	-17.7	1.44 V	147	44.8	11.5
8	15930.00	45.2 AV	54.0	-8.8	1.44 V	147	33.7	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.

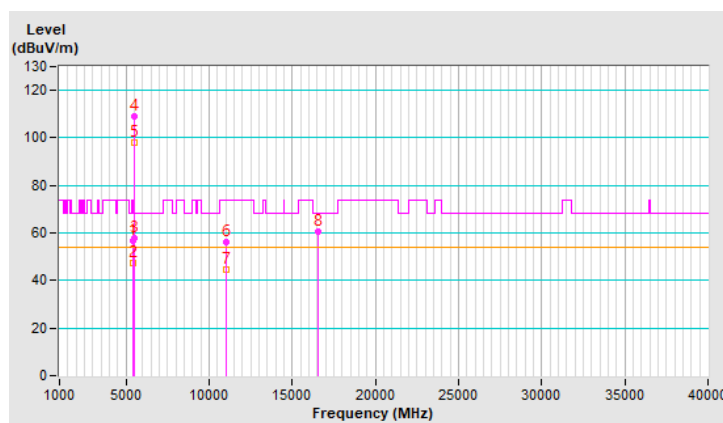


RF Mode	802.11ax (HE40)	Channel	CH 102 : 5510 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Tom Yang		

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	56.9 PK	74.0	-17.1	2.46 H	60	55.8	1.1
2	5460.00	47.1 AV	54.0	-6.9	2.46 H	60	46.0	1.1
3	#5461.93	57.6 PK	68.2	-10.6	2.46 H	60	56.5	1.1
4	*5510.00	108.8 PK			2.46 H	60	107.6	1.2
5	*5510.00	98.1 AV			2.46 H	60	96.9	1.2
6	11020.00	56.3 PK	74.0	-17.7	1.88 H	158	44.4	11.9
7	11020.00	44.5 AV	54.0	-9.5	1.88 H	158	32.6	11.9
8	#16530.00	60.5 PK	68.2	-7.7	1.41 H	243	46.4	14.1

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.

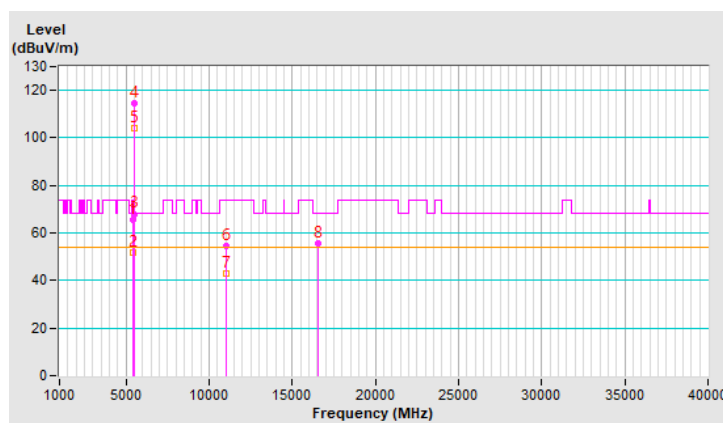


RF Mode	802.11ax (HE40)	Channel	CH 102 : 5510 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Tom Yang		

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	5459.55	65.6 PK	74.0	-8.4	1.64 V	311	64.5	1.1
2	5459.55	52.0 AV	54.0	-2.0	1.64 V	311	50.9	1.1
3	#5467.85	68.0 PK	68.2	-0.2	1.64 V	311	66.9	1.1
4	*5510.00	114.8 PK			1.64 V	311	113.6	1.2
5	*5510.00	104.0 AV			1.64 V	311	102.8	1.2
6	11020.00	54.3 PK	74.0	-19.7	1.48 V	254	42.4	11.9
7	11020.00	42.7 AV	54.0	-11.3	1.48 V	254	30.8	11.9
8	#16530.00	55.5 PK	68.2	-12.7	1.54 V	125	41.4	14.1

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.

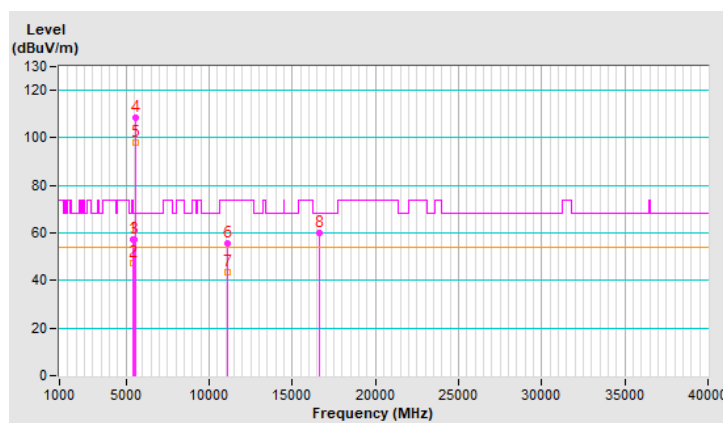


RF Mode	802.11ax (HE40)	Channel	CH 110 : 5550 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Tom Yang		

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	57.1 PK	74.0	-16.9	2.43 H	65	56.0	1.1
2	5460.00	47.1 AV	54.0	-6.9	2.43 H	65	46.0	1.1
3	#5470.00	57.2 PK	68.2	-11.0	2.43 H	65	56.1	1.1
4	*5550.00	108.6 PK			2.43 H	65	107.5	1.1
5	*5550.00	98.2 AV			2.43 H	65	97.1	1.1
6	11100.00	55.6 PK	74.0	-18.4	1.90 H	154	44.3	11.3
7	11100.00	43.6 AV	54.0	-10.4	1.90 H	154	32.3	11.3
8	#16650.00	59.9 PK	68.2	-8.3	1.44 H	232	45.4	14.5

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.

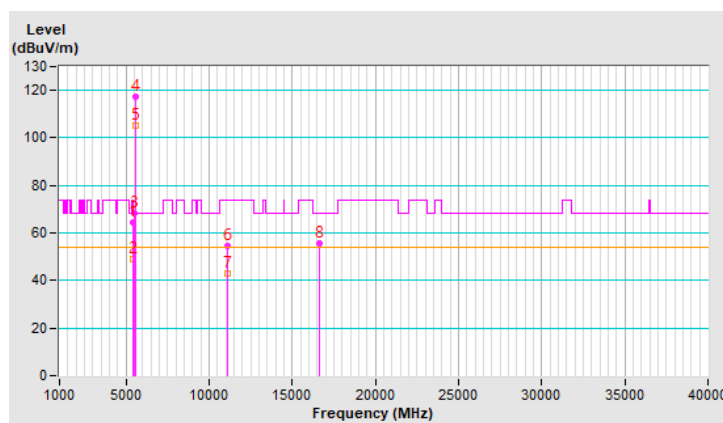


RF Mode	802.11ax (HE40)	Channel	CH 110 : 5550 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Tom Yang		

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	64.4 PK	74.0	-9.6	1.42 V	331	63.3	1.1
2	5460.00	49.2 AV	54.0	-4.8	1.42 V	331	48.1	1.1
3	#5470.00	68.1 PK	68.2	-0.1	1.42 V	331	67.0	1.1
4	*5550.00	117.3 PK			1.42 V	331	116.2	1.1
5	*5550.00	105.3 AV			1.42 V	331	104.2	1.1
6	11100.00	54.7 PK	74.0	-19.3	1.46 V	243	43.4	11.3
7	11100.00	42.8 AV	54.0	-11.2	1.46 V	243	31.5	11.3
8	#16650.00	55.6 PK	68.2	-12.6	1.43 V	126	41.1	14.5

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.

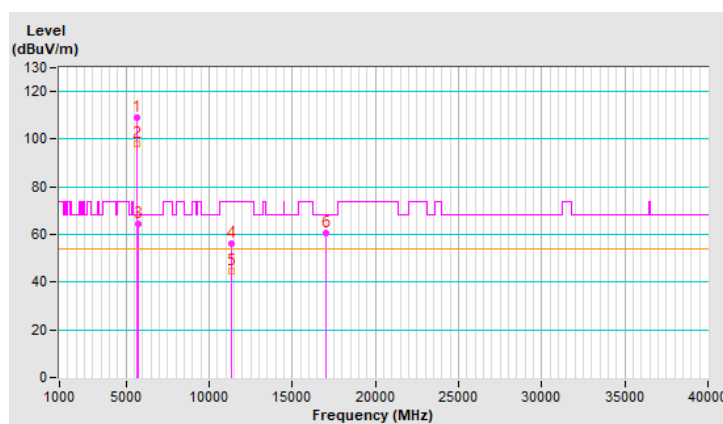


RF Mode	802.11ax (HE40)	Channel	CH 134 : 5670 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Tom Yang		

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	*5670.00	109.1 PK			2.49 H	75	107.7	1.4
2	*5670.00	98.1 AV			2.49 H	75	96.7	1.4
3	#5725.00	64.3 PK	68.2	-3.9	2.49 H	75	62.7	1.6
4	11340.00	56.2 PK	74.0	-17.8	1.92 H	148	44.2	12.0
5	11340.00	44.5 AV	54.0	-9.5	1.92 H	148	32.5	12.0
6	#17010.00	60.4 PK	68.2	-7.8	1.45 H	236	44.9	15.5

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.

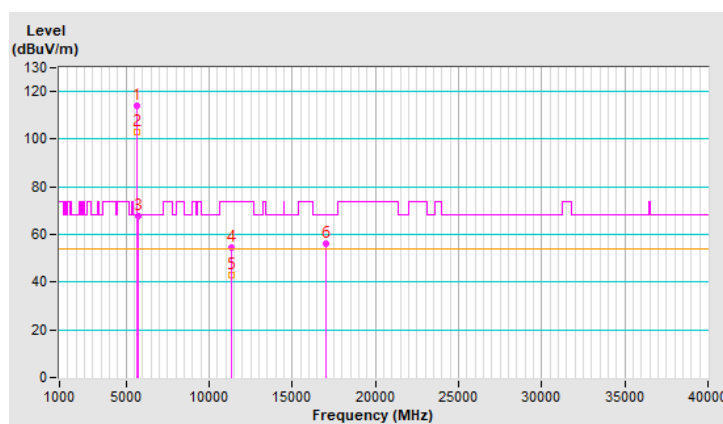


RF Mode	802.11ax (HE40)	Channel	CH 134 : 5670 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Tom Yang		

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	*5670.00	113.8 PK			1.48 V	335	112.4	1.4
2	*5670.00	103.2 AV			1.48 V	335	101.8	1.4
3	#5725.00	67.9 PK	68.2	-0.3	1.48 V	335	66.3	1.6
4	11340.00	54.7 PK	74.0	-19.3	1.45 V	256	42.7	12.0
5	11340.00	42.7 AV	54.0	-11.3	1.45 V	256	30.7	12.0
6	#17010.00	56.1 PK	68.2	-12.1	1.46 V	144	40.6	15.5

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.

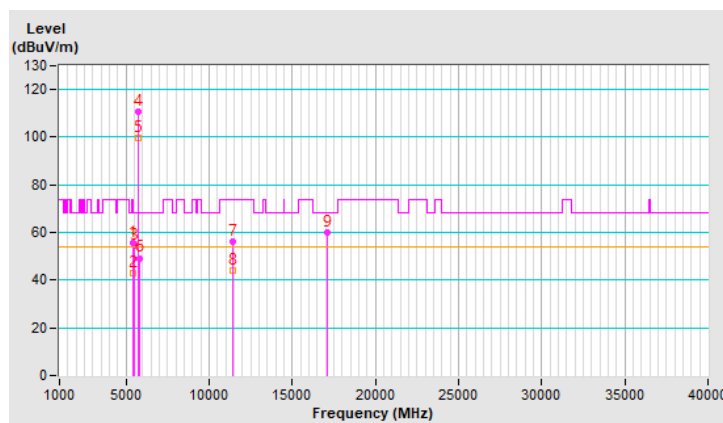


RF Mode	802.11ax (HE40)	Channel	CH 142 : 5710 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Tom Yang		

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	55.8 PK	74.0	-18.2	2.46 H	76	54.7	1.1
2	5460.00	42.7 AV	54.0	-11.3	2.46 H	76	41.6	1.1
3	#5470.00	54.5 PK	68.2	-13.7	2.46 H	76	53.4	1.1
4	*5710.00	110.5 PK			2.46 H	76	109.0	1.5
5	*5710.00	99.7 AV			2.46 H	76	98.2	1.5
6	#5850.00	49.3 PK	68.2	-18.9	2.46 H	76	47.2	2.1
7	11420.00	56.1 PK	74.0	-17.9	1.92 H	140	44.2	11.9
8	11420.00	44.2 AV	54.0	-9.8	1.92 H	140	32.3	11.9
9	#17130.00	60.1 PK	68.2	-8.1	1.45 H	260	44.5	15.6

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.

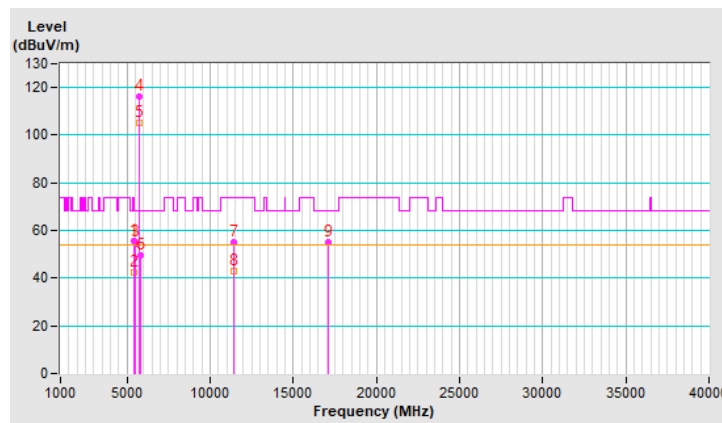


RF Mode	802.11ax (HE40)	Channel	CH 142 : 5710 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Tom Yang		

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	55.5 PK	74.0	-18.5	1.47 V	326	54.4	1.1
2	5460.00	42.2 AV	54.0	-11.8	1.47 V	326	41.1	1.1
3	#5470.00	54.8 PK	68.2	-13.4	1.47 V	326	53.7	1.1
4	*5710.00	116.1 PK			1.47 V	326	114.6	1.5
5	*5710.00	105.2 AV			1.47 V	326	103.7	1.5
6	#5850.00	49.7 PK	68.2	-18.5	1.47 V	326	47.6	2.1
7	11420.00	55.2 PK	74.0	-18.8	1.45 V	253	43.3	11.9
8	11420.00	43.1 AV	54.0	-10.9	1.45 V	253	31.2	11.9
9	#17130.00	55.3 PK	68.2	-12.9	1.48 V	127	39.7	15.6

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.

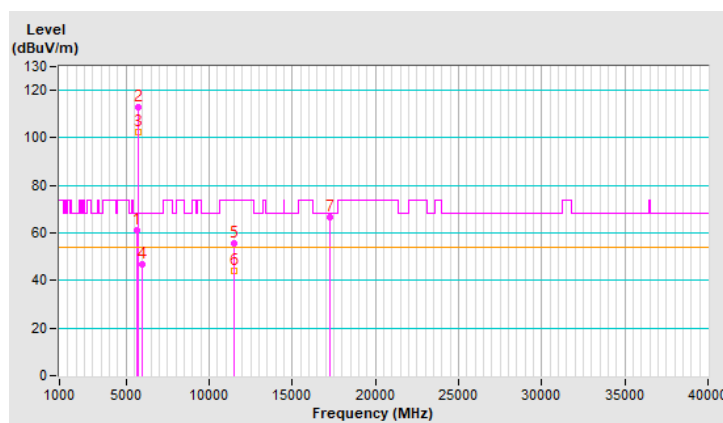


RF Mode	802.11ax (HE40)	Channel	CH 151 : 5755 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Tom Yang		

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	#5647.80	60.9 PK	68.2	-7.3	1.52 H	106	59.4	1.5
2	*5755.00	112.7 PK			1.52 H	106	111.2	1.5
3	*5755.00	102.4 AV			1.52 H	106	100.9	1.5
4	#5984.60	46.7 PK	68.2	-21.5	1.52 H	106	44.5	2.2
5	11510.00	55.7 PK	74.0	-18.3	1.92 H	160	43.8	11.9
6	11510.00	43.9 AV	54.0	-10.1	1.92 H	160	32.0	11.9
7	#17265.00	66.7 PK	68.2	-1.5	1.44 H	129	51.3	15.4

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.

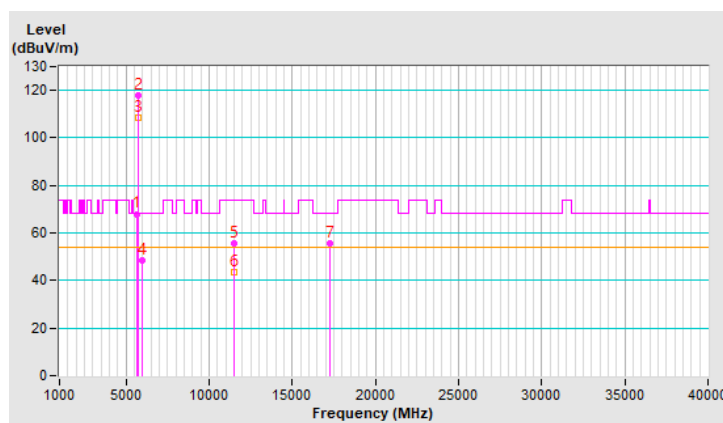


RF Mode	802.11ax (HE40)	Channel	CH 151 : 5755 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Tom Yang		

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	#5646.33	68.0 PK	68.2	-0.2	1.68 V	290	66.5	1.5
2	*5755.00	118.0 PK			1.68 V	290	116.5	1.5
3	*5755.00	108.3 AV			1.68 V	290	106.8	1.5
4	#5974.64	48.4 PK	68.2	-19.8	1.68 V	290	46.2	2.2
5	11510.00	55.4 PK	74.0	-18.6	1.53 V	241	43.5	11.9
6	11510.00	43.4 AV	54.0	-10.6	1.53 V	241	31.5	11.9
7	#17265.00	55.7 PK	68.2	-12.5	1.52 V	134	40.3	15.4

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.

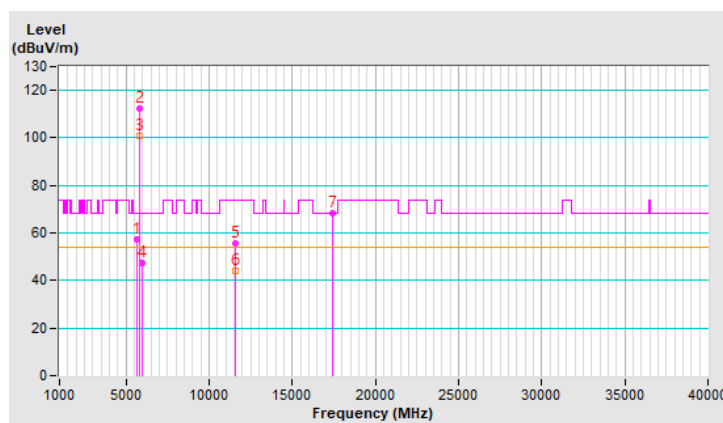


RF Mode	802.11ax (HE40)	Channel	CH 159 : 5795 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Tom Yang		

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	#5625.48	57.5 PK	68.2	-10.7	1.67 H	87	56.1	1.4
2	*5795.00	112.6 PK			1.67 H	87	110.7	1.9
3	*5795.00	100.8 AV			1.67 H	87	98.9	1.9
4	#5948.57	47.2 PK	68.2	-21.0	1.67 H	87	45.0	2.2
5	11590.00	55.4 PK	74.0	-18.6	1.97 H	153	43.8	11.6
6	11590.00	43.8 AV	54.0	-10.2	1.97 H	153	32.2	11.6
7	#17385.00	68.1 PK	68.2	-0.1	1.46 H	142	51.9	16.2

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.

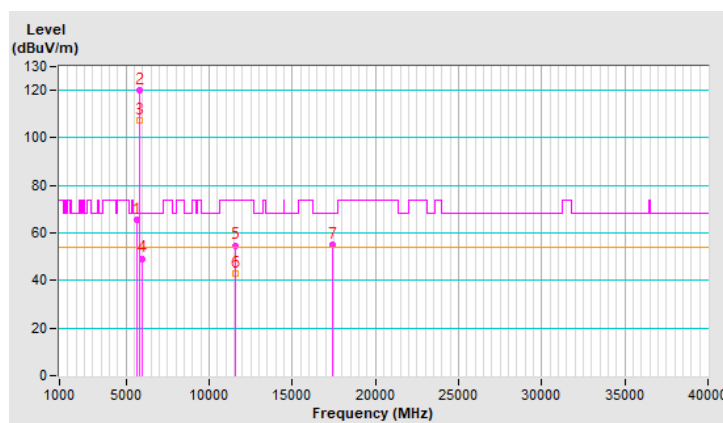


RF Mode	802.11ax (HE40)	Channel	CH 159 : 5795 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Tom Yang		

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	#5645.85	65.7 PK	68.2	-2.5	1.54 V	291	64.2	1.5
2	*5795.00	119.9 PK			1.54 V	291	118.0	1.9
3	*5795.00	107.5 AV			1.54 V	291	105.6	1.9
4	#5987.95	49.3 PK	68.2	-18.9	1.54 V	291	47.1	2.2
5	11590.00	54.8 PK	74.0	-19.2	1.50 V	229	43.2	11.6
6	11590.00	43.1 AV	54.0	-10.9	1.50 V	229	31.5	11.6
7	#17385.00	55.2 PK	68.2	-13.0	1.46 V	141	39.0	16.2

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.

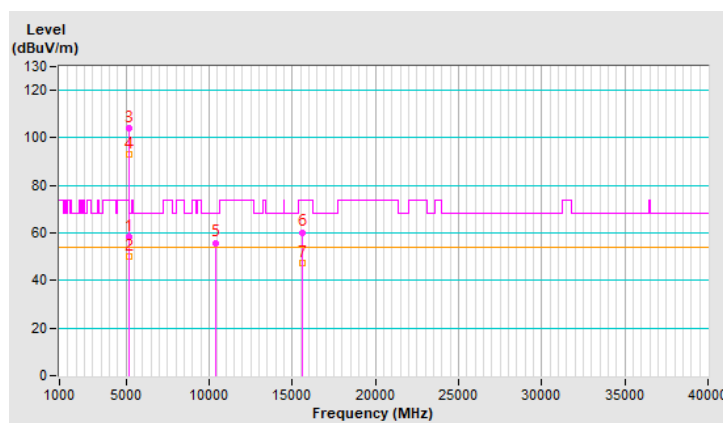


RF Mode	802.11ax (HE80)	Channel	CH 42 : 5210 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Tom Yang		

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	5147.74	58.2 PK	74.0	-15.8	2.13 H	63	57.0	1.2
2	5147.74	50.1 AV	54.0	-3.9	2.13 H	63	48.9	1.2
3	*5210.00	104.0 PK			2.13 H	63	103.1	0.9
4	*5210.00	92.9 AV			2.13 H	63	92.0	0.9
5	#10420.00	55.9 PK	68.2	-12.3	1.98 H	159	44.8	11.1
6	15630.00	60.3 PK	74.0	-13.7	1.42 H	270	49.3	11.0
7	15630.00	47.1 AV	54.0	-6.9	1.42 H	270	36.1	11.0

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.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

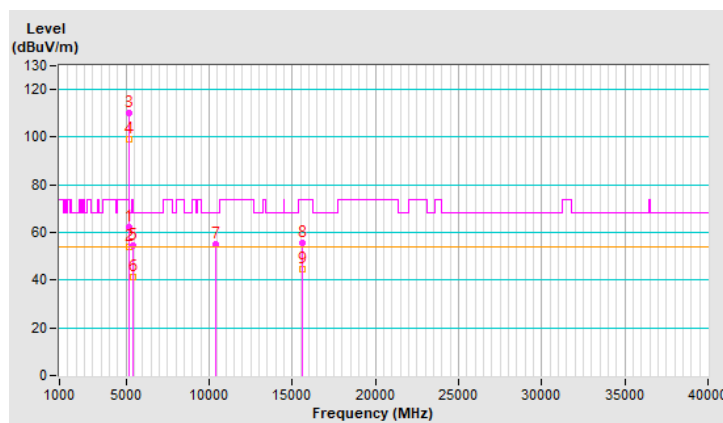


RF Mode	802.11ax (HE80)	Channel	CH 42 : 5210 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Tom Yang		

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	5144.74	62.3 PK	74.0	-11.7	1.62 V	331	61.1	1.2
2	5144.74	53.8 AV	54.0	-0.2	1.62 V	331	52.6	1.2
3	*5210.00	110.2 PK			1.62 V	331	109.3	0.9
4	*5210.00	99.2 AV			1.62 V	331	98.3	0.9
5	5419.34	54.4 PK	74.0	-19.6	1.50 V	330	53.4	1.0
6	5419.34	41.2 AV	54.0	-12.8	1.50 V	330	40.2	1.0
7	#10420.00	55.2 PK	68.2	-13.0	1.53 V	231	44.1	11.1
8	15630.00	55.5 PK	74.0	-18.5	1.48 V	138	44.5	11.0
9	15630.00	44.7 AV	54.0	-9.3	1.48 V	138	33.7	11.0

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.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

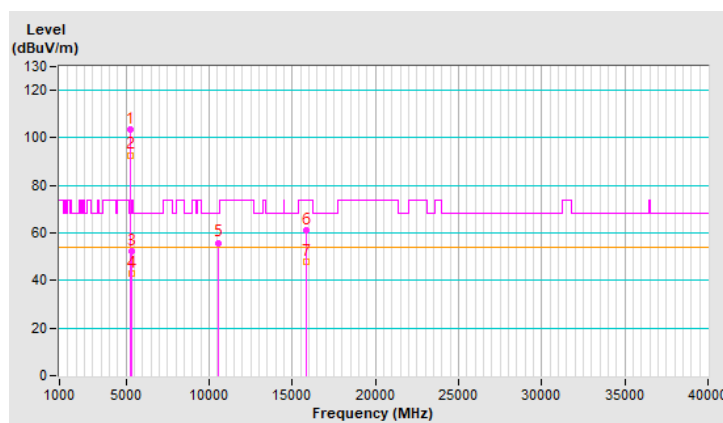


RF Mode	802.11ax (HE80)	Channel	CH 58 : 5290 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Tom Yang		

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	*5290.00	103.7 PK			2.19 H	84	102.9	0.8
2	*5290.00	92.8 AV			2.19 H	84	92.0	0.8
3	5353.06	52.2 PK	74.0	-21.8	2.19 H	84	51.2	1.0
4	5353.06	42.8 AV	54.0	-11.2	2.19 H	84	41.8	1.0
5	#10580.00	55.9 PK	68.2	-12.3	1.96 H	165	44.8	11.1
6	15870.00	60.9 PK	74.0	-13.1	1.42 H	255	49.6	11.3
7	15870.00	47.8 AV	54.0	-6.2	1.42 H	255	36.5	11.3

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.

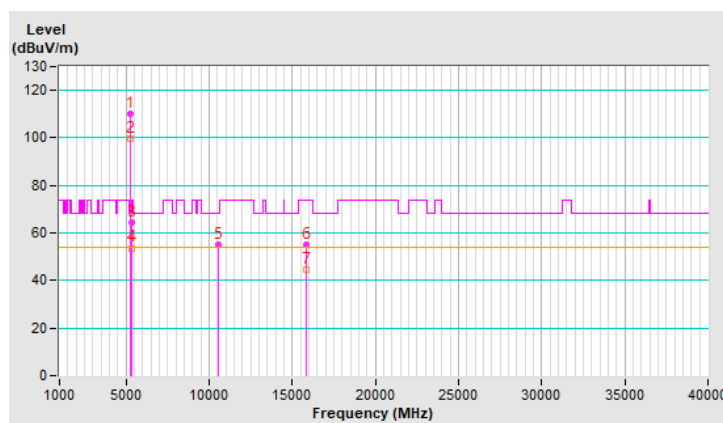


RF Mode	802.11ax (HE80)	Channel	CH 58 : 5290 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Tom Yang		

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	*5290.00	110.2 PK			1.41 V	311	109.4	0.8
2	*5290.00	99.7 AV			1.41 V	311	98.9	0.8
3	5350.00	64.6 PK	74.0	-9.4	1.41 V	311	63.6	1.0
4	5350.00	53.7 AV	54.0	-0.3	1.41 V	311	52.7	1.0
5	#10580.00	55.1 PK	68.2	-13.1	1.52 V	241	44.0	11.1
6	15870.00	55.3 PK	74.0	-18.7	1.47 V	139	44.0	11.3
7	15870.00	44.8 AV	54.0	-9.2	1.47 V	139	33.5	11.3

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.

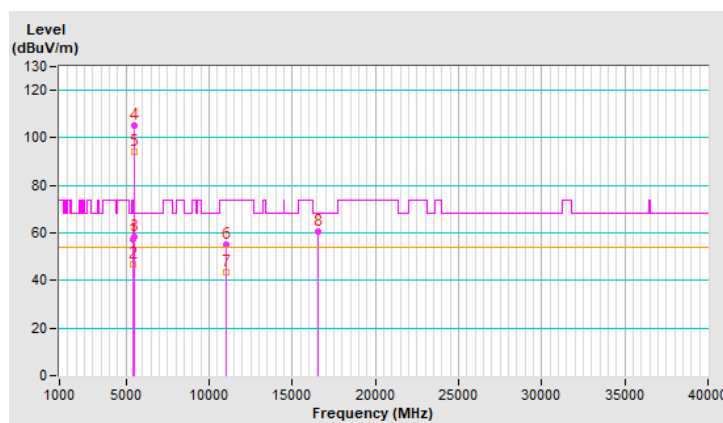


RF Mode	802.11ax (HE80)	Channel	CH 106 : 5530 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Tom Yang		

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	57.4 PK	74.0	-16.6	2.46 H	56	56.3	1.1
2	5460.00	46.8 AV	54.0	-7.2	2.46 H	56	45.7	1.1
3	#5470.00	58.3 PK	68.2	-9.9	2.46 H	56	57.2	1.1
4	*5530.00	105.2 PK			2.46 H	56	104.1	1.1
5	*5530.00	94.1 AV			2.46 H	56	93.0	1.1
6	11060.00	55.3 PK	74.0	-18.7	1.92 H	148	43.6	11.7
7	11060.00	43.7 AV	54.0	-10.3	1.92 H	148	32.0	11.7
8	#16590.00	60.6 PK	68.2	-7.6	1.49 H	270	46.4	14.2

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.

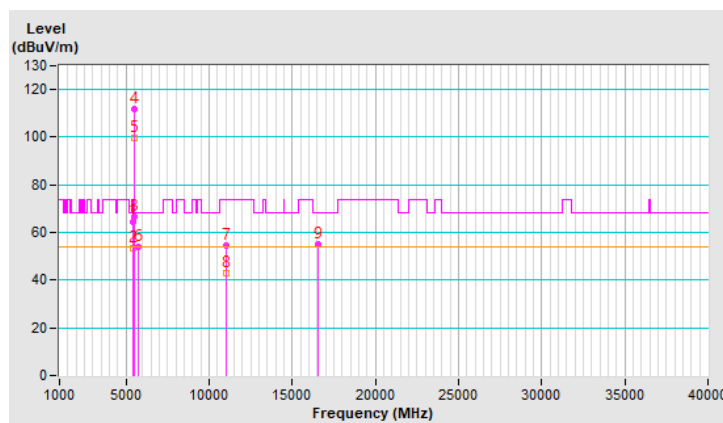


RF Mode	802.11ax (HE80)	Channel	CH 106 : 5530 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Tom Yang		

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	5458.85	64.7 PK	74.0	-9.3	1.50 V	337	63.6	1.1
2	5458.85	53.6 AV	54.0	-0.4	1.50 V	337	52.5	1.1
3	#5464.44	66.4 PK	68.2	-1.8	1.50 V	337	65.3	1.1
4	*5530.00	111.7 PK			1.50 V	337	110.6	1.1
5	*5530.00	99.8 AV			1.50 V	337	98.7	1.1
6	#5750.31	54.1 PK	68.2	-14.1	1.50 V	337	52.6	1.5
7	11060.00	54.5 PK	74.0	-19.5	1.49 V	240	42.8	11.7
8	11060.00	43.0 AV	54.0	-11.0	1.49 V	240	31.3	11.7
9	#16590.00	54.9 PK	68.2	-13.3	1.44 V	157	40.7	14.2

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.

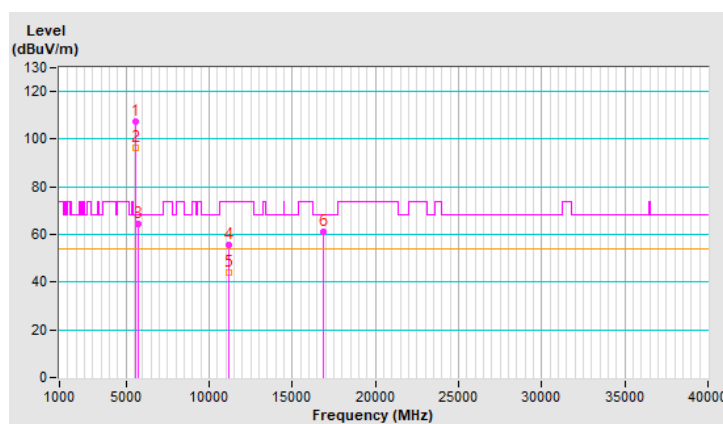


RF Mode	802.11ax (HE80)	Channel	CH 122 : 5610 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Tom Yang		

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	*5610.00	107.4 PK			2.23 H	67	106.1	1.3
2	*5610.00	96.3 AV			2.23 H	67	95.0	1.3
3	#5725.00	64.2 PK	68.2	-4.0	2.23 H	67	62.6	1.6
4	11220.00	55.7 PK	74.0	-18.3	1.99 H	164	44.3	11.4
5	11220.00	44.2 AV	54.0	-9.8	1.99 H	164	32.8	11.4
6	#16830.00	61.2 PK	68.2	-7.0	1.47 H	270	46.4	14.8

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.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

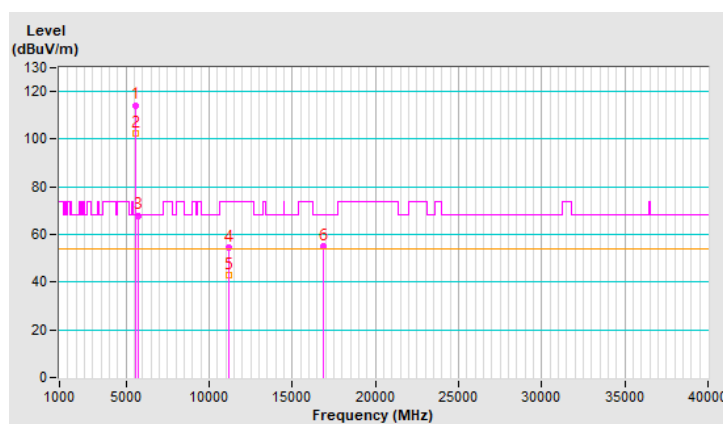


RF Mode	802.11ax (HE80)	Channel	CH 122 : 5610 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Tom Yang		

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	*5610.00	114.3 PK			1.60 V	288	113.0	1.3
2	*5610.00	102.4 AV			1.60 V	288	101.1	1.3
3	#5725.00	68.0 PK	68.2	-0.2	1.60 V	288	66.4	1.6
4	11220.00	54.4 PK	74.0	-19.6	1.54 V	238	43.0	11.4
5	11220.00	42.9 AV	54.0	-11.1	1.54 V	238	31.5	11.4
6	#16830.00	55.2 PK	68.2	-13.0	1.44 V	128	40.4	14.8

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.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.

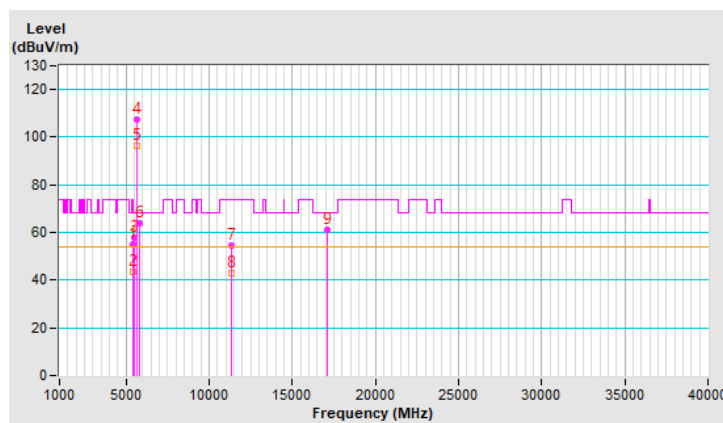


RF Mode	802.11ax (HE80)	Channel	CH 138 : 5690 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Tom Yang		

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	55.3 PK	74.0	-18.7	2.21 H	72	54.2	1.1
2	5460.00	43.3 AV	54.0	-10.7	2.21 H	72	42.2	1.1
3	#5470.00	57.7 PK	68.2	-10.5	2.21 H	72	56.6	1.1
4	*5690.00	107.5 PK			2.21 H	72	106.0	1.5
5	*5690.00	96.5 AV			2.21 H	72	95.0	1.5
6	#5850.00	63.9 PK	68.2	-4.3	2.21 H	72	61.8	2.1
7	11380.00	54.4 PK	74.0	-19.6	1.97 H	164	42.4	12.0
8	11380.00	42.9 AV	54.0	-11.1	1.97 H	164	30.9	12.0
9	#17070.00	60.9 PK	68.2	-7.3	1.47 H	251	45.3	15.6

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.

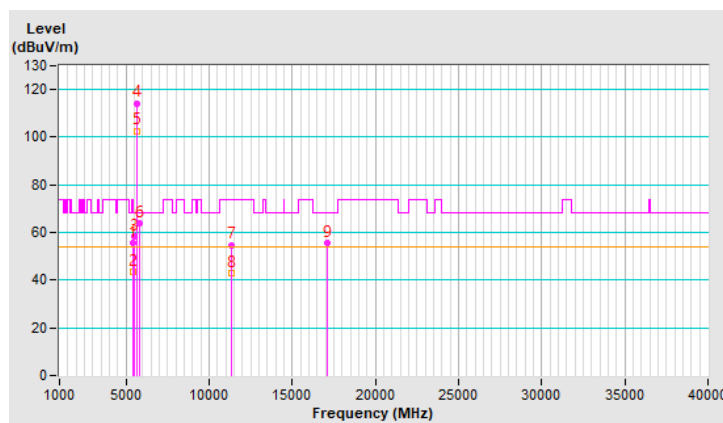


RF Mode	802.11ax (HE80)	Channel	CH 138 : 5690 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Tom Yang		

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	55.5 PK	74.0	-18.5	2.09 V	297	54.4	1.1
2	5460.00	43.5 AV	54.0	-10.5	2.09 V	297	42.4	1.1
3	#5470.00	58.4 PK	68.2	-9.8	2.09 V	297	57.3	1.1
4	*5690.00	114.3 PK			2.09 V	297	112.8	1.5
5	*5690.00	102.7 AV			2.09 V	297	101.2	1.5
6	#5850.00	64.1 PK	68.2	-4.1	2.09 V	297	62.0	2.1
7	11380.00	54.8 PK	74.0	-19.2	1.47 V	245	42.8	12.0
8	11380.00	43.1 AV	54.0	-10.9	1.47 V	245	31.1	12.0
9	#17070.00	55.6 PK	68.2	-12.6	1.43 V	137	40.0	15.6

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.

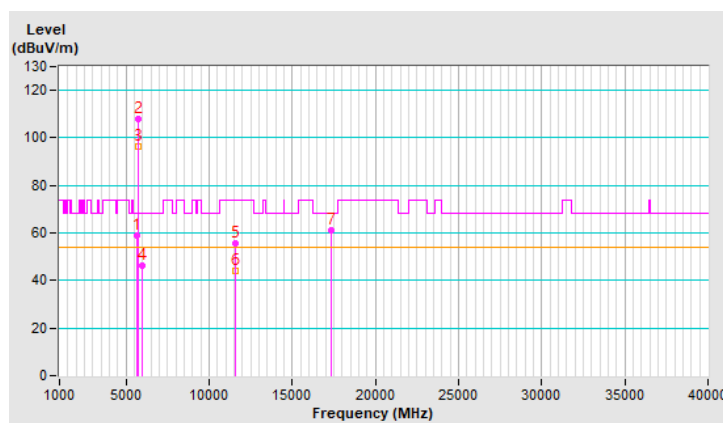


RF Mode	802.11ax (HE80)	Channel	CH 155 : 5775 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Tom Yang		

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	#5637.73	59.0 PK	68.2	-9.2	1.60 H	107	57.6	1.4
2	*5775.00	108.0 PK			1.60 H	107	106.3	1.7
3	*5775.00	96.2 AV			1.60 H	107	94.5	1.7
4	#5949.31	46.4 PK	68.2	-21.8	1.60 H	107	44.2	2.2
5	11550.00	55.6 PK	74.0	-18.4	1.94 H	171	43.9	11.7
6	11550.00	44.3 AV	54.0	-9.7	1.94 H	171	32.6	11.7
7	#17325.00	61.1 PK	68.2	-7.1	1.41 H	264	45.5	15.6

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.

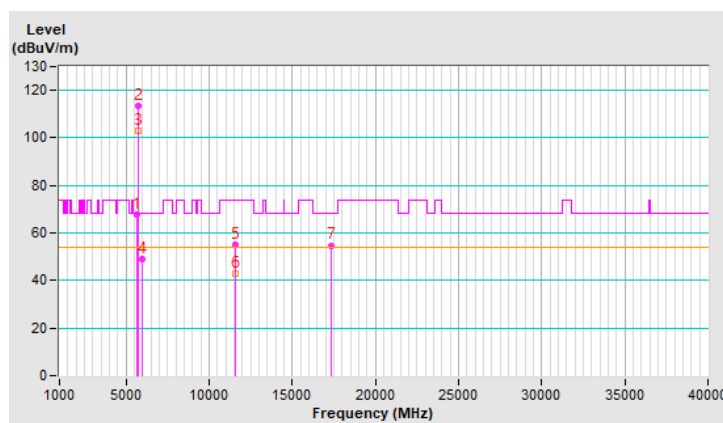


RF Mode	802.11ax (HE80)	Channel	CH 155 : 5775 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Tom Yang		

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	#5636.94	67.8 PK	68.2	-0.4	1.58 V	290	66.4	1.4
2	*5775.00	113.7 PK			1.58 V	290	112.0	1.7
3	*5775.00	102.9 AV			1.58 V	290	101.2	1.7
4	#6000.81	49.2 PK	68.2	-19.0	1.58 V	290	47.0	2.2
5	11550.00	54.9 PK	74.0	-19.1	1.46 V	217	43.2	11.7
6	11550.00	43.1 AV	54.0	-10.9	1.46 V	217	31.4	11.7
7	#17325.00	54.8 PK	68.2	-13.4	1.43 V	148	39.2	15.6

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.

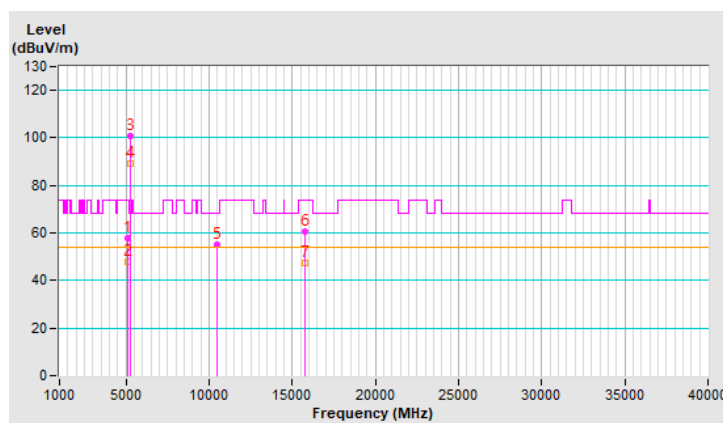


RF Mode	802.11ax (HE160)	Channel	CH 50 : 5250 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Tom Yang		

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	5142.67	58.0 PK	74.0	-16.0	2.13 H	248	56.8	1.2
2	5142.67	47.9 AV	54.0	-6.1	2.13 H	248	46.7	1.2
3	*5250.00	101.0 PK			2.13 H	248	100.2	0.8
4	*5250.00	89.4 AV			2.13 H	248	88.6	0.8
5	#10500.00	55.2 PK	68.2	-13.0	1.96 H	155	43.8	11.4
6	15750.00	60.4 PK	74.0	-13.6	1.46 H	242	49.6	10.8
7	15750.00	47.5 AV	54.0	-6.5	1.46 H	242	36.7	10.8

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.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

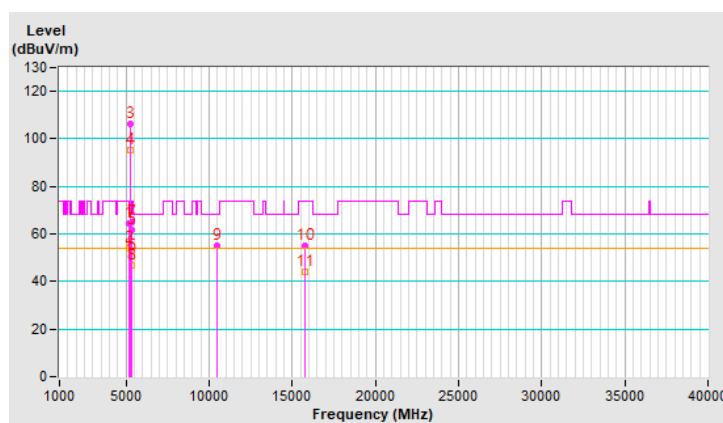


RF Mode	802.11ax (HE160)	Channel	CH 50 : 5250 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Tom Yang		

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	5149.50	64.4 PK	74.0	-9.6	1.52 V	311	63.2	1.2
2	5149.50	53.9 AV	54.0	-0.1	1.52 V	311	52.7	1.2
3	*5250.00	106.4 PK			1.52 V	311	105.6	0.8
4	*5250.00	95.3 AV			1.52 V	311	94.5	0.8
5	5354.20	61.6 PK	74.0	-12.4	1.52 V	311	60.6	1.0
6	5354.20	50.8 AV	54.0	-3.2	1.52 V	311	49.8	1.0
7	5377.85	64.9 PK	74.0	-9.1	1.52 V	311	63.9	1.0
8	5377.85	46.9 AV	54.0	-7.1	1.52 V	311	45.9	1.0
9	#10500.00	55.2 PK	68.2	-13.0	1.47 V	228	43.8	11.4
10	15750.00	55.1 PK	74.0	-18.9	1.52 V	143	44.3	10.8
11	15750.00	44.3 AV	54.0	-9.7	1.52 V	143	33.5	10.8

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.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.

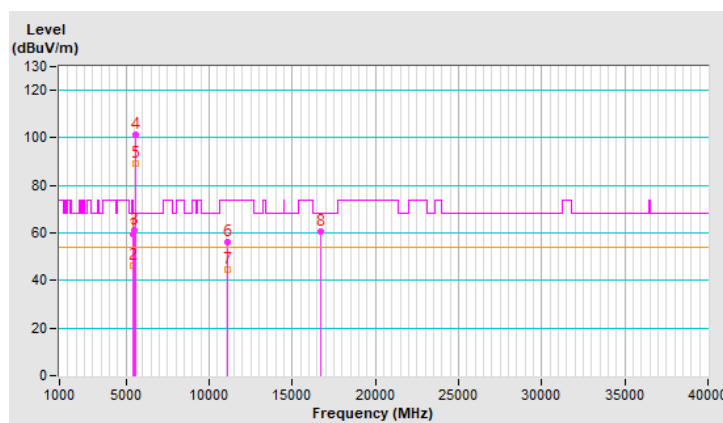


RF Mode	802.11ax (HE160)	Channel	CH 114 : 5570 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Tom Yang		

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	5456.57	59.3 PK	74.0	-14.7	2.08 H	57	58.2	1.1
2	5456.57	46.4 AV	54.0	-7.6	2.08 H	57	45.3	1.1
3	#5469.98	61.2 PK	68.2	-7.0	2.08 H	57	60.1	1.1
4	*5570.00	101.3 PK			2.08 H	57	100.2	1.1
5	*5570.00	89.3 AV			2.08 H	57	88.2	1.1
6	11140.00	56.0 PK	74.0	-18.0	1.92 H	161	44.7	11.3
7	11140.00	44.6 AV	54.0	-9.4	1.92 H	161	33.3	11.3
8	#16710.00	60.5 PK	68.2	-7.7	1.47 H	249	45.5	15.0

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.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.

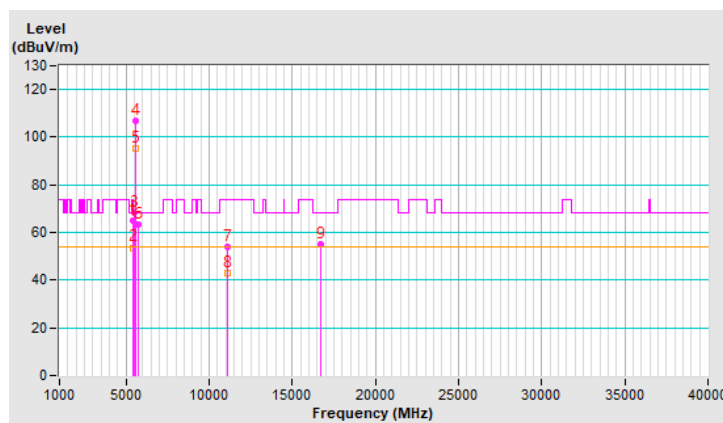


RF Mode	802.11ax (HE160)	Channel	CH 114 : 5570 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Tom Yang		

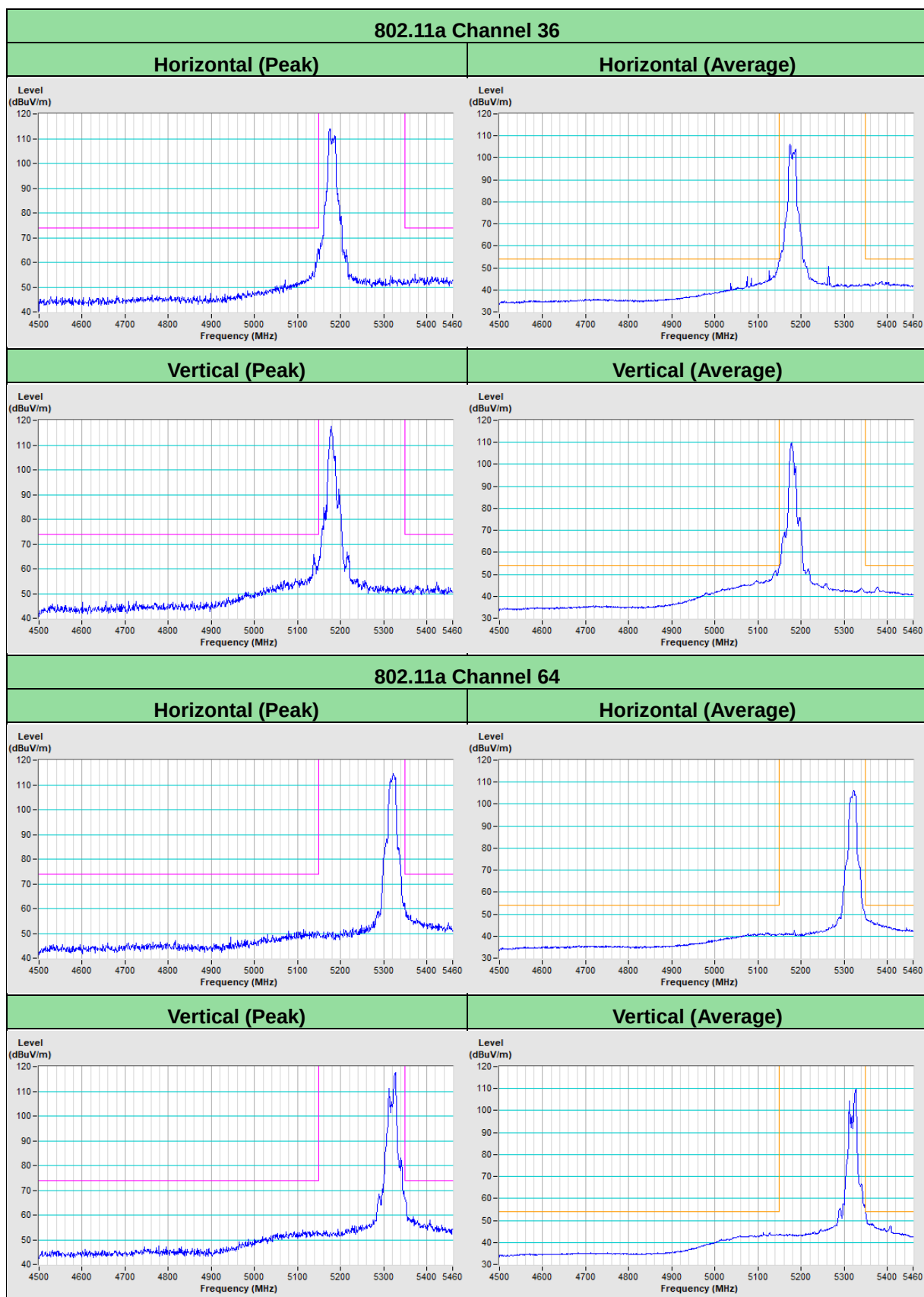
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5459.00	64.8 PK	74.0	-9.2	1.34 V	335	63.7	1.1
2	5459.00	53.7 AV	54.0	-0.3	1.34 V	335	52.6	1.1
3	#5463.77	68.1 PK	68.2	-0.1	1.34 V	335	67.0	1.1
4	*5570.00	106.8 PK			1.34 V	335	105.7	1.1
5	*5570.00	95.5 AV			1.34 V	335	94.4	1.1
6	#5726.36	63.3 PK	68.2	-4.9	1.34 V	335	61.7	1.6
7	11140.00	54.2 PK	74.0	-19.8	1.50 V	243	42.9	11.3
8	11140.00	42.8 AV	54.0	-11.2	1.50 V	243	31.5	11.3
9	#16710.00	55.1 PK	68.2	-13.1	1.42 V	137	40.1	15.0

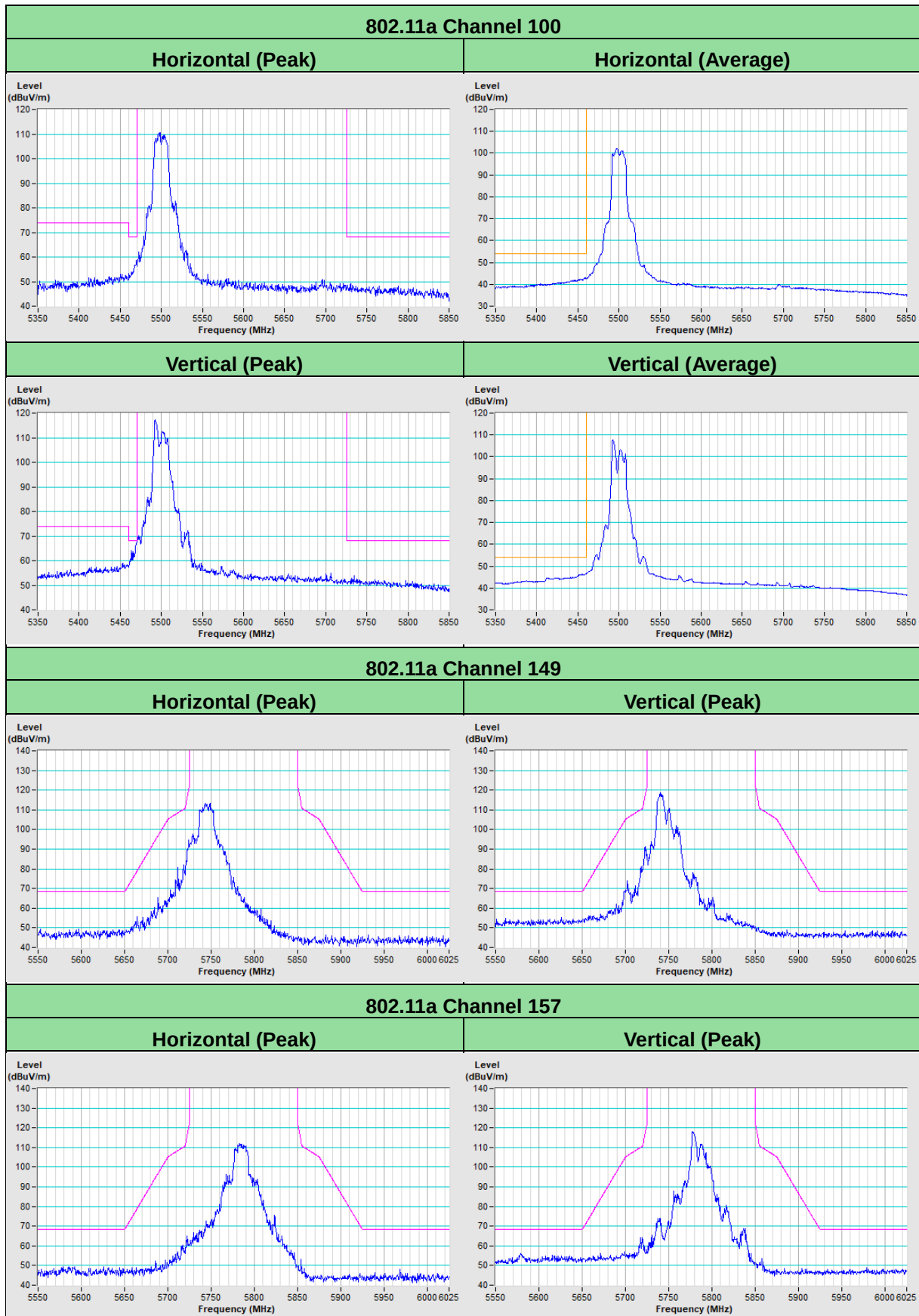
Remarks:

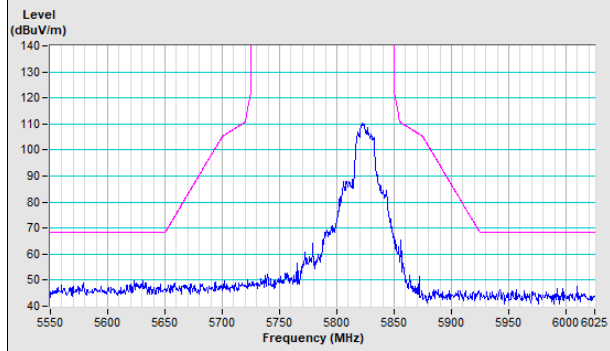
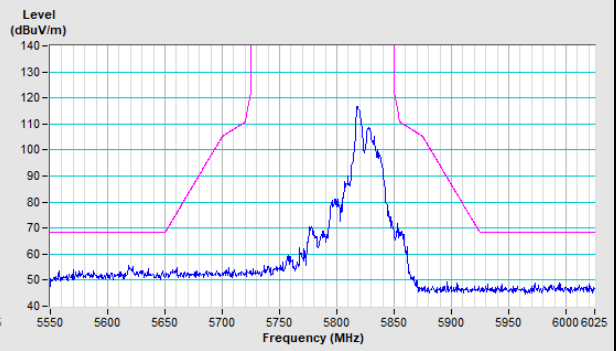
1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency,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

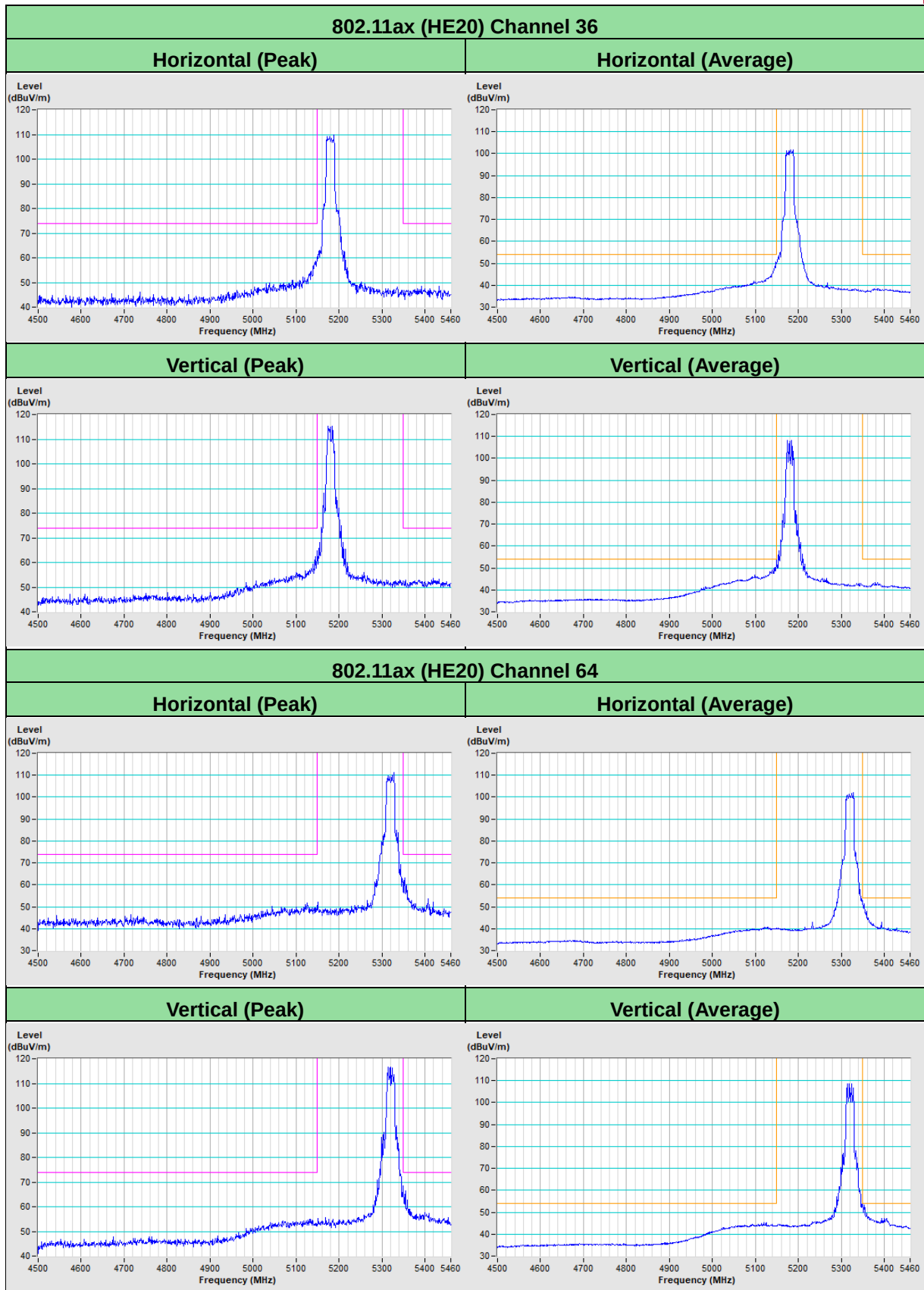


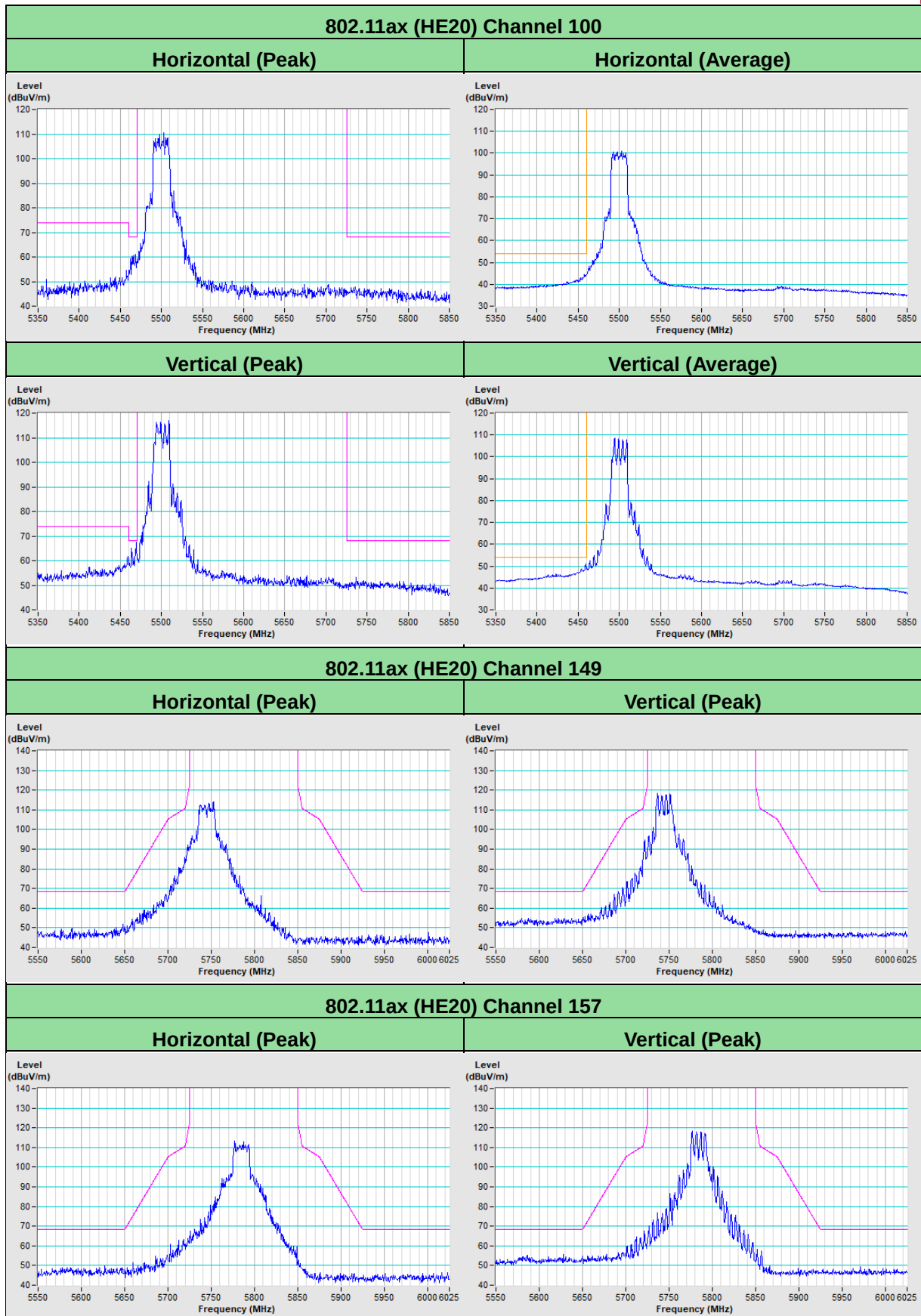
Plot of Band Edge

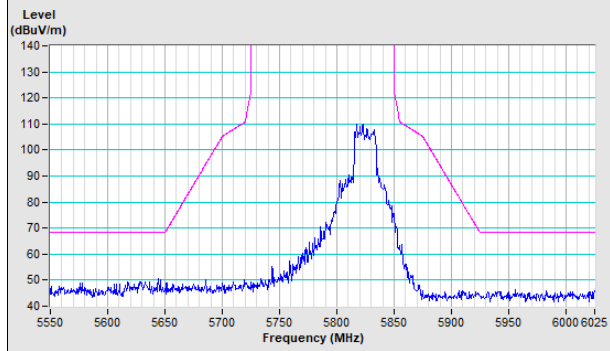
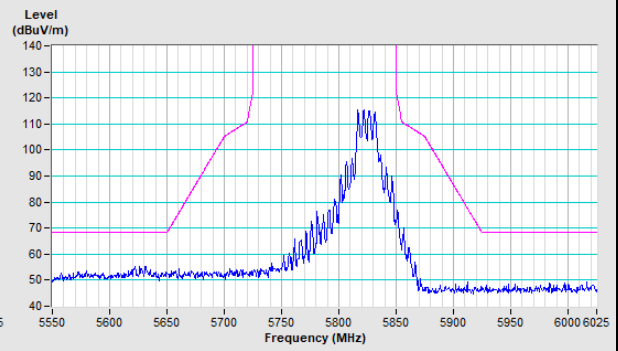


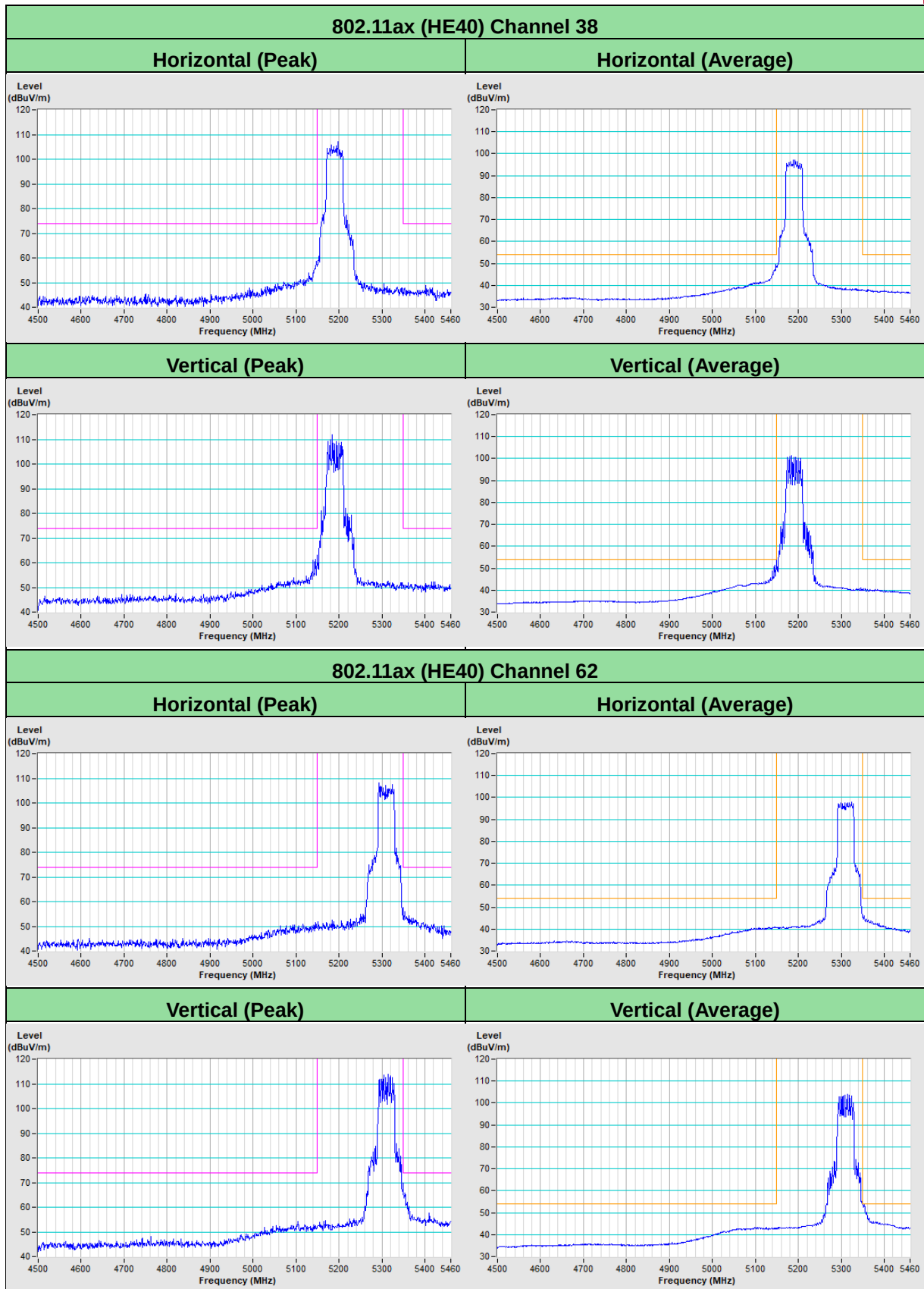


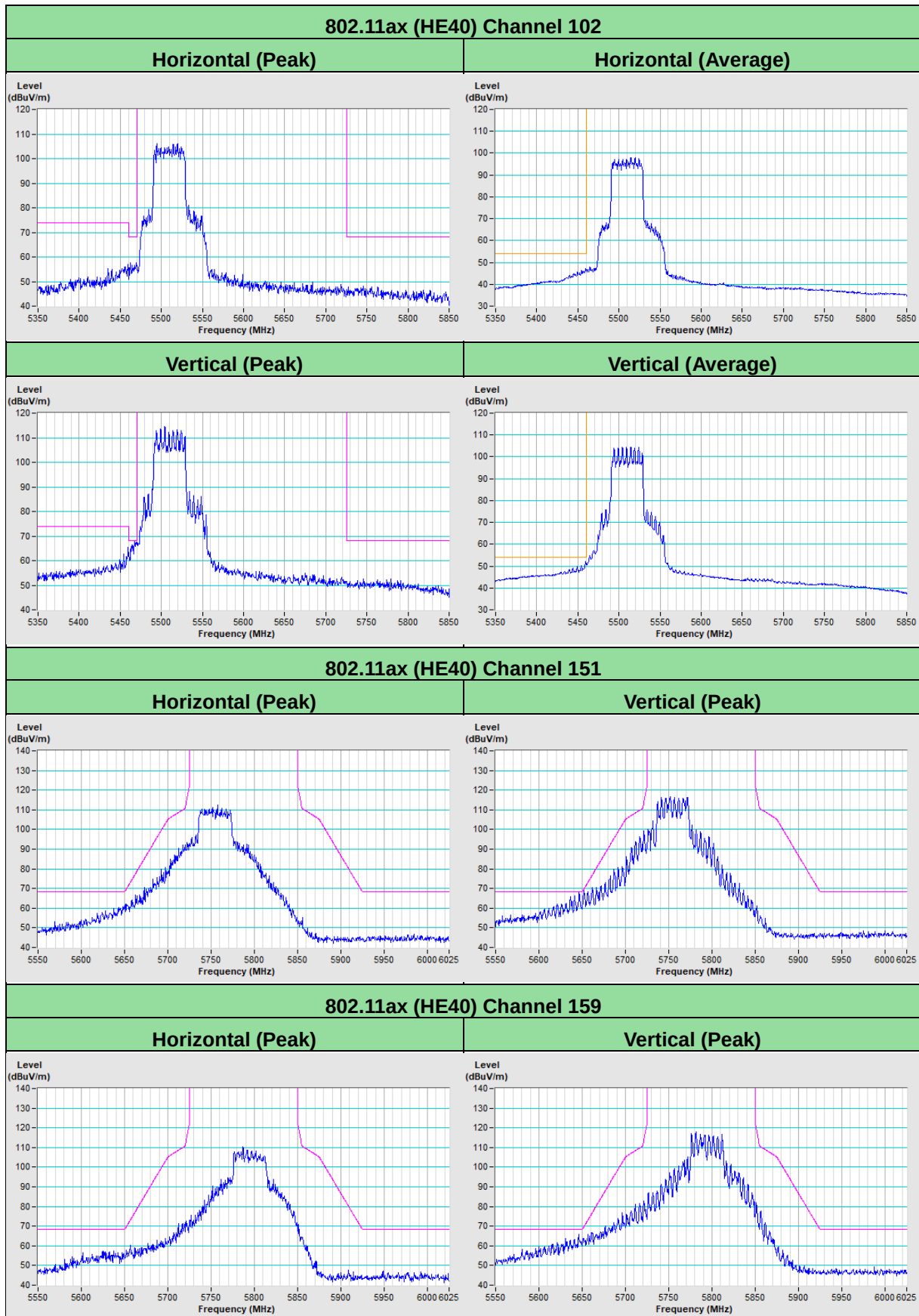
802.11a Channel 165**Horizontal (Peak)****Vertical (Peak)**

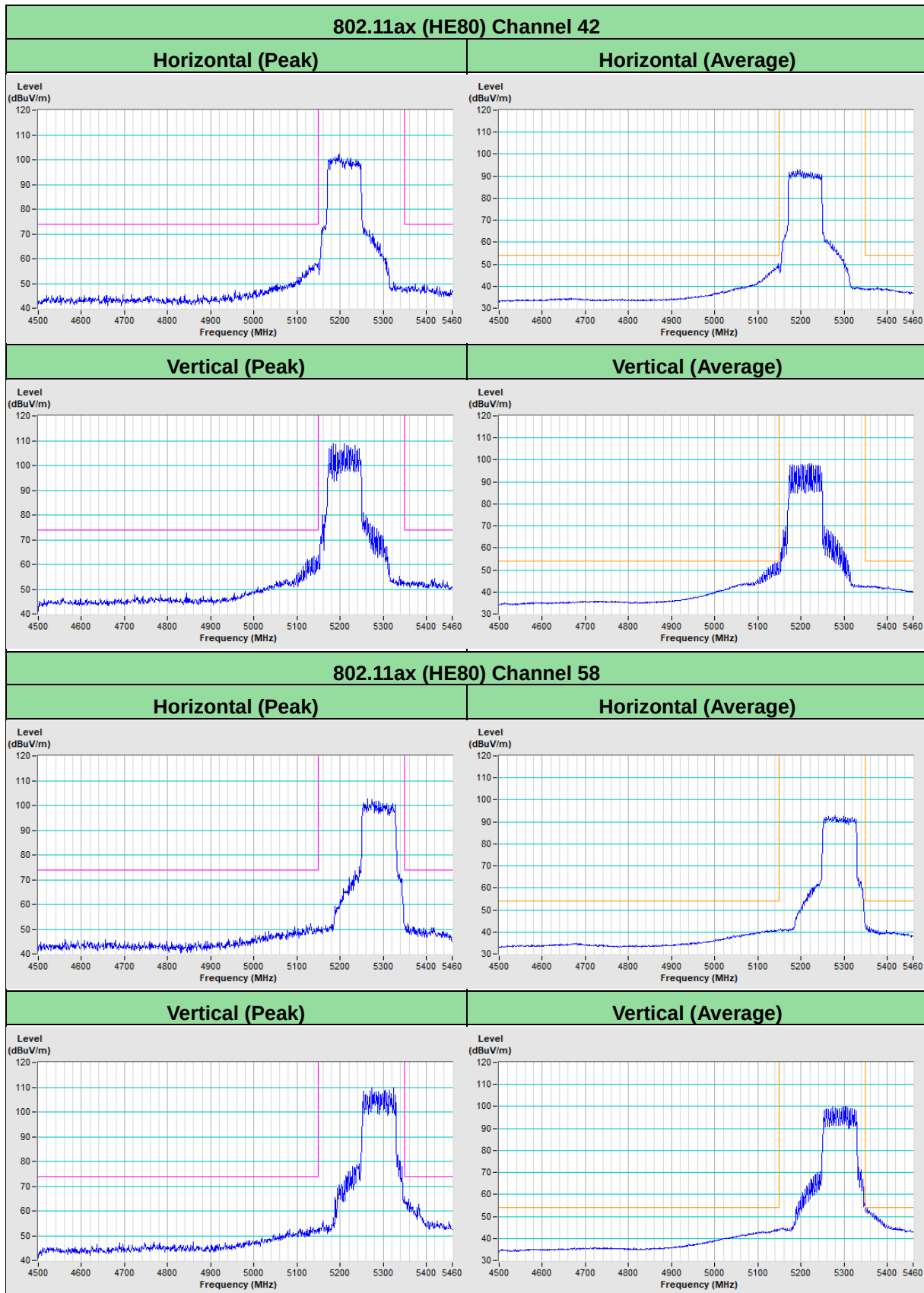


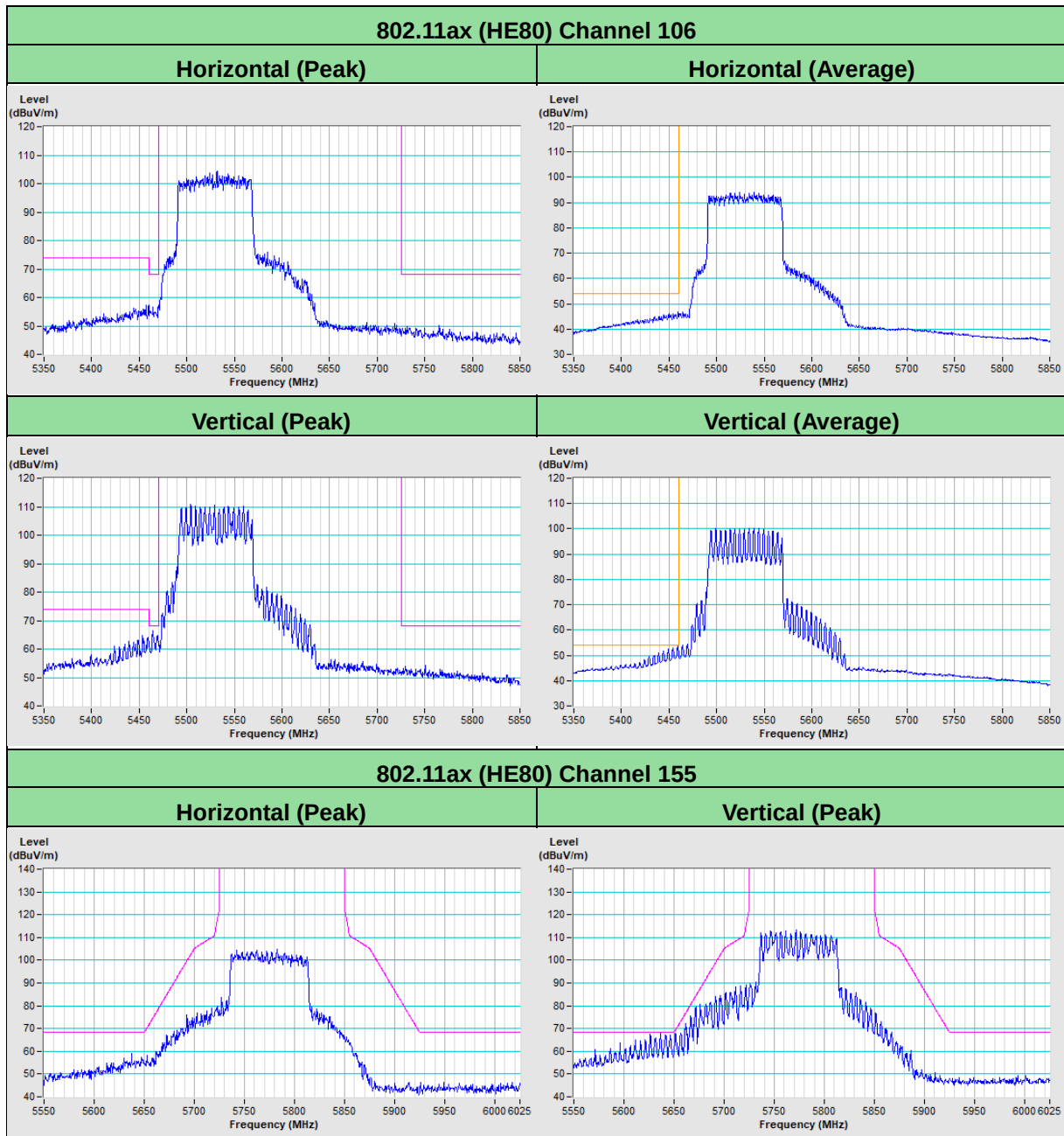


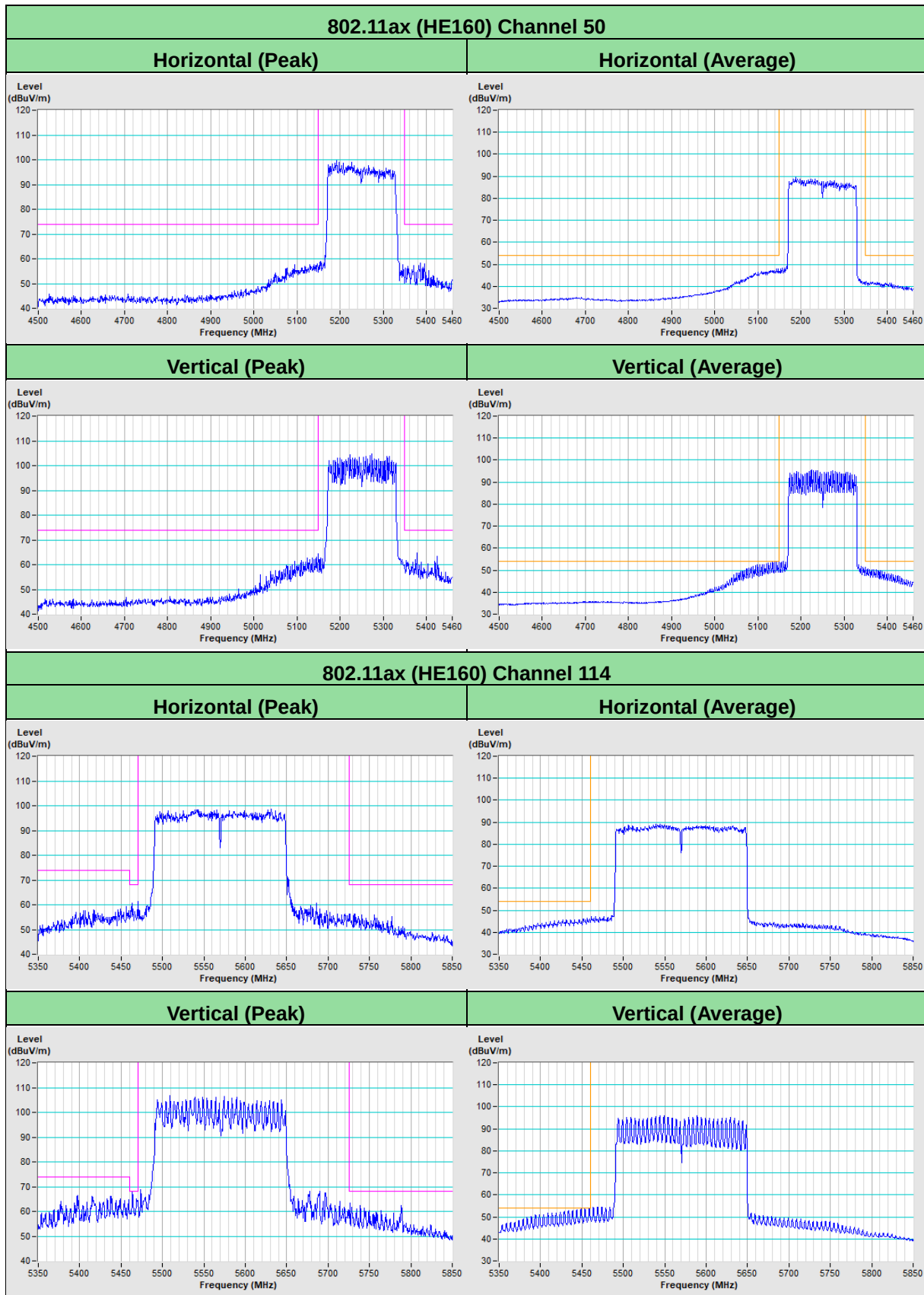
802.11ax (HE20) Channel 165**Horizontal (Peak)****Vertical (Peak)**











8 Pictures of Test Arrangements

Please refer to the attached file (Test Setup Photo)

9 Information of the Testing Laboratories

We, Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch, were founded in 1988 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are FCC recognized accredited test firms and accredited according to ISO/IEC 17025.

If you have any comments, please feel free to contact us at the following:

Lin Kou EMC/RF Lab

Tel: 886-2-26052180

Fax: 886-2-26051924

Hsin Chu EMC/RF/Telecom Lab

Tel: 886-3-6668565

Fax: 886-3-6668323

Hwa Ya EMC/RF/Safety Lab

Tel: 886-3-3183232

Fax: 886-3-3270892

Email: service.adt@bureauveritas.com

Web Site: <http://ee.bureauveritas.com.tw>

The address and road map of all our labs can be found in our web site also.

--- END ---