

TEST REPORT

CERTIFICATE OF CONFORMITY

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

Report No.: RFBCKS-WTW-P25030622-1

FCC ID: 2AAAS-CP08

Product: Smart Hub Pro (Gen 2)

Brand: Vivint

Model No.: CP08

Received Date: 2025/2/27

Test Date: 2025/3/27 ~ 2025/4/14

Issued Date: 2025/5/8

Applicant: Vivint, Inc.

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Issued By: Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch
Lin Kou Laboratories

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Test Location(2): No. 19, Hwa Ya 2nd Rd., Wen Hwa Vil., Kwei Shan Dist., Taoyuan City 33383, Taiwan

FCC Registration / 281270 / TW0032 for Test Location(1)

Designation Number: 788550 / TW0003 for Test Location(2)

Approved by:

Jeremy Lin

Date:

2025/5/8

Jeremy Lin / Project Engineer

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Prepared by : Celine Chou / Senior Specialist

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Table of Contents

Release Control Record	4
1 Certificate	5
2 Summary of Test Results	6
2.1 Measurement Uncertainty	6
2.2 Supplementary Information	6
3 General Information	7
3.1 General Description of EUT	7
3.2 Antenna Description of EUT	8
3.3 Channel List	9
3.4 Test Mode Applicability and Tested Channel Detail	11
3.5 Duty Cycle of Test Signal	13
3.6 Test Program Used and Operation Descriptions	15
3.7 Connection Diagram of EUT and Peripheral Devices	15
3.8 Configuration of Peripheral Devices and Cable Connections	15
4 Test Instruments	16
4.1 26 dB Bandwidth	16
4.2 RF Output Power	16
4.3 Power Spectral Density	16
4.4 6 dB Bandwidth	16
4.5 Occupied Bandwidth	16
4.6 AC Power Conducted Emissions	17
4.7 Unwanted Emissions below 1 GHz	18
4.8 Unwanted Emissions above 1 GHz	19
5 Limits of Test Items	20
5.1 26 dB Bandwidth	20
5.2 RF Output Power	20
5.3 Power Spectral Density	20
5.4 6 dB Bandwidth	20
5.5 Occupied Bandwidth	20
5.6 AC Power Conducted Emissions	21
5.7 Unwanted Emissions below 1 GHz	21
5.8 Unwanted Emissions above 1 GHz	22
6 Test Arrangements	23
6.1 26 dB Bandwidth	23
6.1.1 Test Setup	23
6.1.2 Test Procedure	23
6.2 RF Output Power	23
6.2.1 Test Setup	23
6.2.2 Test Procedure	23
6.3 Power Spectral Density	24
6.3.1 Test Setup	24
6.3.2 Test Procedure	24
6.4 6 dB Bandwidth	24
6.4.1 Test Setup	24
6.4.2 Test Procedure	24
6.5 Occupied Bandwidth	25
6.5.1 Test Setup	25
6.5.2 Test Procedure	25
6.6 AC Power Conducted Emissions	25
6.6.1 Test Setup	25
6.6.2 Test Procedure	25
6.7 Unwanted Emissions below 1 GHz	26
6.7.1 Test Setup	26
6.7.2 Test Procedure	27

6.8	Unwanted Emissions above 1 GHz.....	28
6.8.1	Test Setup	28
6.8.2	Test Procedure	28
7	Test Results of Test Item	29
7.1	26 dB Bandwidth	29
7.2	RF Output Power.....	33
7.3	Power Spectral Density	39
7.4	6 dB Bandwidth	45
7.5	Occupied Bandwidth.....	47
7.6	AC Power Conducted Emissions	54
7.7	Unwanted Emissions below 1 GHz	56
7.8	Unwanted Emissions above 1 GHz.....	58
8	Pictures of Test Arrangements	124
9	Information of the Testing Laboratories	125

Release Control Record

Issue No.	Description	Date Issued
RFBCKS-WTW-P25030622-1	Original release.	2025/5/8

1 Certificate

Product: Smart Hub Pro (Gen 2)
Brand: Vivint
Test Model: CP08
Sample Status: Engineering sample
Applicant: Vivint, Inc.
Test Date: 2025/3/27 ~ 2025/4/14
Standard: 47 CFR FCC Part 15, Subpart E (Section 15.407)
Measurement procedure: ANSI C63.10-2013
KDB 789033 D02 General UNII Test Procedure New Rules v02r01
KDB 662911 D01 Multiple Transmitter Output v02r01

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

2 Summary of Test Results

47 CFR FCC Part 15, Subpart E (Section 15.407)			
Clause	Test Item	Result	Remark
15.407(a)(2)	26 dB Bandwidth	-	For U-NII-2A U-NII-2C Band output power limitation is determined based on 26dBc bandwidth.
15.407(a)(1) 15.407(a)(2) 15.407(a)(3)	RF Output Power	Pass	Meet the requirement of limit.
15.407(a)(1) 15.407(a)(2) 15.407(a)(3)	Power Spectral Density	Pass	Meet the requirement of limit.
15.407(e)	6 dB Bandwidth	Pass	Meet the requirement of limit. (U-NII-3 Band only)
---	Occupied Bandwidth	-	Reference only.
15.407(b)(9)	AC Power Conducted Emissions	Pass	Minimum passing margin is -5.85 dB at 0.45400 MHz
15.407(b)(9)	Unwanted Emissions below 1 GHz	Pass	Minimum passing margin is -8.8 dB at 596.48 MHz
15.407(b) (1/10) 15.407(b) (2/10) 15.407(b) (3/10) 15.407(b) (4(i)/10)	Unwanted Emissions above 1 GHz	Pass	Minimum passing margin is -0.5 dB at 17355.00 MHz
15.203	Antenna Requirement	Pass	Antenna connector is ipex(MHF) not a standard connector.

Notes:

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

2.1 Measurement Uncertainty

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

Measurement	Specification	Expanded Uncertainty (k=2) (±)
26 dB Bandwidth	-	206.5 Hz
RF Output Power	-	1.371 dB
Power Spectral Density	-	1.017 dB
6 dB Bandwidth	-	206.5 Hz
Occupied Bandwidth	-	72 Hz
AC Power Conducted Emissions	9 kHz ~ 30 MHz	2.90 dB
Unwanted Emissions below 1 GHz	9 kHz ~ 30 MHz	3.00 dB
	30 MHz ~ 1 GHz	2.93 dB
Unwanted Emissions above 1 GHz	1 GHz ~ 18 GHz	1.76 dB
	18 GHz ~ 40 GHz	1.77 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	Smart Hub Pro (Gen 2)
Brand	Vivint
Test Model	CP08
Status of EUT	Engineering sample
Power Supply Rating	12 Vdc from adapter 3.88 Vdc from battery
Modulation Type	64QAM, 16QAM, QPSK, BPSK for OFDM 256QAM for OFDM in 11ac mode 1024QAM for OFDMA in 11ax mode
Modulation Technology	OFDM, OFDMA
Transfer Rate	Up to 1201.0 Mbps
Operating Frequency	5.18 GHz ~ 5.24 GHz 5.26 GHz ~ 5.32 GHz 5.50 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
Output Power	5.18 GHz ~ 5.24 GHz: 245.529 mW (23.9 dBm) 5.26 GHz ~ 5.32 GHz: 249.194 mW (23.97 dBm) 5.50 GHz ~ 5.72 GHz: 249.530 mW (23.97 dBm) 5.745 GHz ~ 5.825 GHz: 743.704 mW (28.71 dBm)
EUT Category	Client device

Note:

1. The EUT uses following accessories.

Item	Brand	Model	Specification	P/N
AC Adapter	HONOTO	ADS-24FUD-12 12024EPCU	AC Input: 100-240 Vac, 50/60Hz, 0.6 A DC Output: 12 Vdc, 2 A	-
Battery	Shanghai BYD Co., Ltd	10-600026-001	Power Rating: Nominal Voltage: 3.88 Vdc Min Capacity: 5280 mAh, 20.5 Wh Typ Capacity: 5395 mAh, 21.0 Wh Maximum Charge Voltage: 4.48 Vdc	16251678-00

2. Simultaneously transmission combination.

Combination	Technology			
1	WLAN (2.4 GHz)	Bluetooth	Z-wave	WWAN
2	WLAN (5 GHz)	Bluetooth	Z-wave	WWAN

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

3. The WWAN module (Brand: Quectel, Model: EG91-NAX, FCC ID: XMR201909EG91NAX) is collocated in this EUT.

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

3.2 Antenna Description of EUT

1. The antenna information is listed as below.

Ant. No.	Brand	Model	Ant. Gain (dBi)	Frequency Range	Ant. Type	Connector Type
WiFi-1	WNC	NA	1.2	2.4 GHz ~ 2.4835 GHz	PIFA	ipex(MHF)
			5.9	5.15 GHz ~ 5.85 GHz	PIFA	ipex(MHF)
WiFi-3 / BT	WNC	NA	1.2	2.4 GHz ~ 2.4835 GHz	PIFA	ipex(MHF)
			5.9	5.15 GHz ~ 5.85 GHz	PIFA	ipex(MHF)

* 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	2TX	2RX
802.11n (HT20)	2TX	2RX
802.11n (HT40)	2TX	2RX
802.11ac (VHT20)	2TX	2RX
802.11ac (VHT40)	2TX	2RX
802.11ac (VHT80)	2TX	2RX
802.11ax (HE20)	2TX	2RX
802.11ax (HE40)	2TX	2RX
802.11ax (HE80)	2TX	2RX

Note: 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) and 802.11ax mode for 20 MHz (40 MHz, 80 MHz). Therefore the investigated worst case is the representative mode in test report.

3.3 Channel List

FOR 5180 ~ 5320 MHz

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

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

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

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

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

Channel	Frequency	Channel	Frequency
42	5210 MHz	58	5290 MHz

FOR 5500 ~ 5720 MHz

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

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

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

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

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

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

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. EUT can be used in the following ways: Lying/ Wall Mount/ Standing. Pre-scan these ways and find the worst case as a representative test condition. 2. Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
Worst Case:	1. Lying/ Wall Mount/ Standing Worst Condition: Wall Mount

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

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

Test Item	Mode	Signal Mode	Tested Channel	Modulation	Data Rate Parameter
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
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

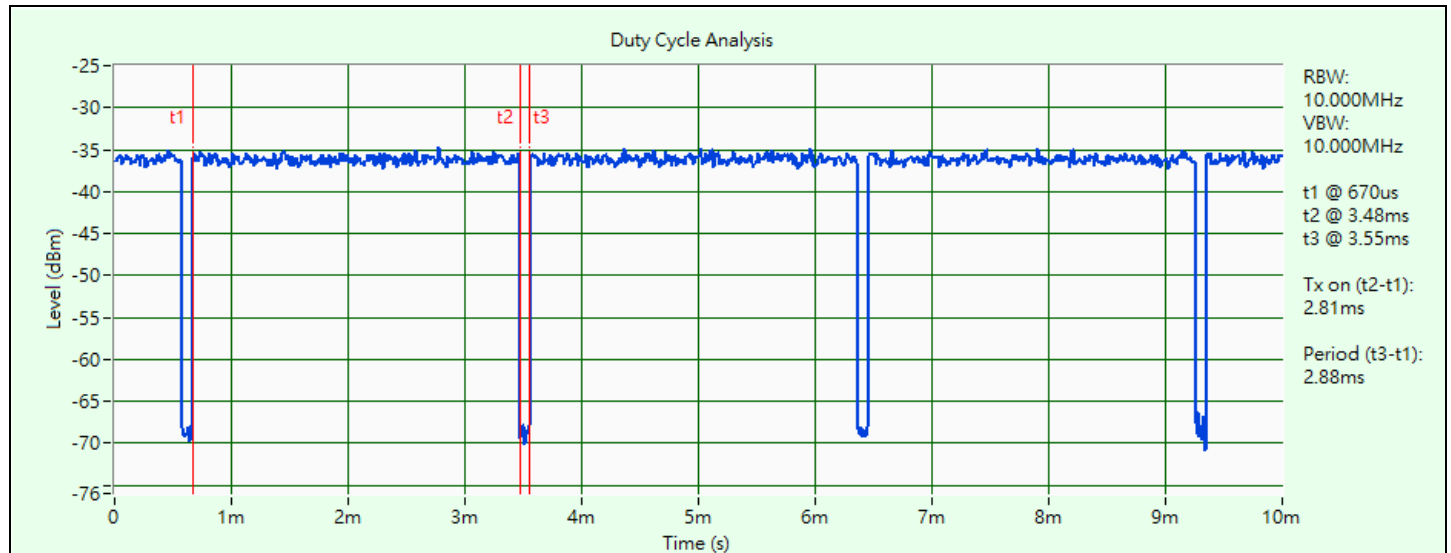
3.5 Duty Cycle of Test Signal

802.11a: Duty cycle = $2.81 \text{ ms} / 2.88 \text{ ms} \times 100\% = 97.6\%$, duty factor = $10 * \log (1/\text{Duty cycle}) = 0.11 \text{ dB}$

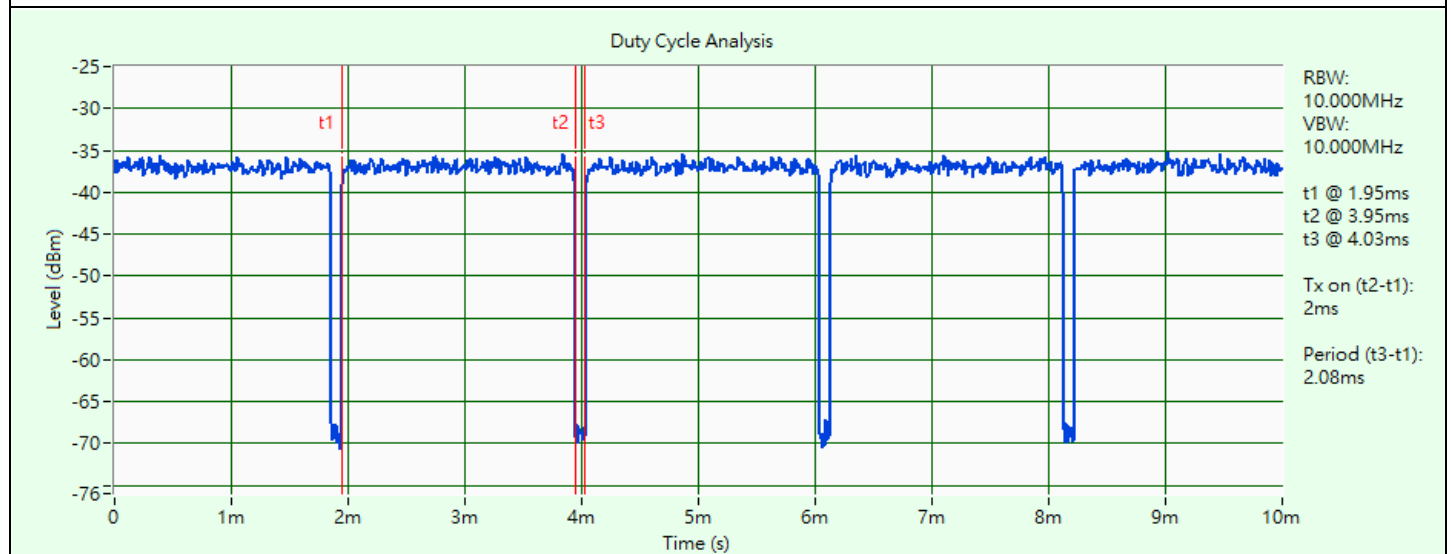
802.11ax (HE20): Duty cycle = $2 \text{ ms} / 2.08 \text{ ms} \times 100\% = 96.2\%$, duty factor = $10 * \log (1/\text{Duty cycle}) = 0.17 \text{ dB}$

802.11ax (HE40): Duty cycle = $1.99 \text{ ms} / 2.07 \text{ ms} \times 100\% = 96.1\%$, duty factor = $10 * \log (1/\text{Duty cycle}) = 0.17 \text{ dB}$

802.11ax (HE80): Duty cycle = $1.99 \text{ ms} / 2.07 \text{ ms} \times 100\% = 96.1\%$, duty factor = $10 * \log (1/\text{Duty cycle}) = 0.17 \text{ dB}$

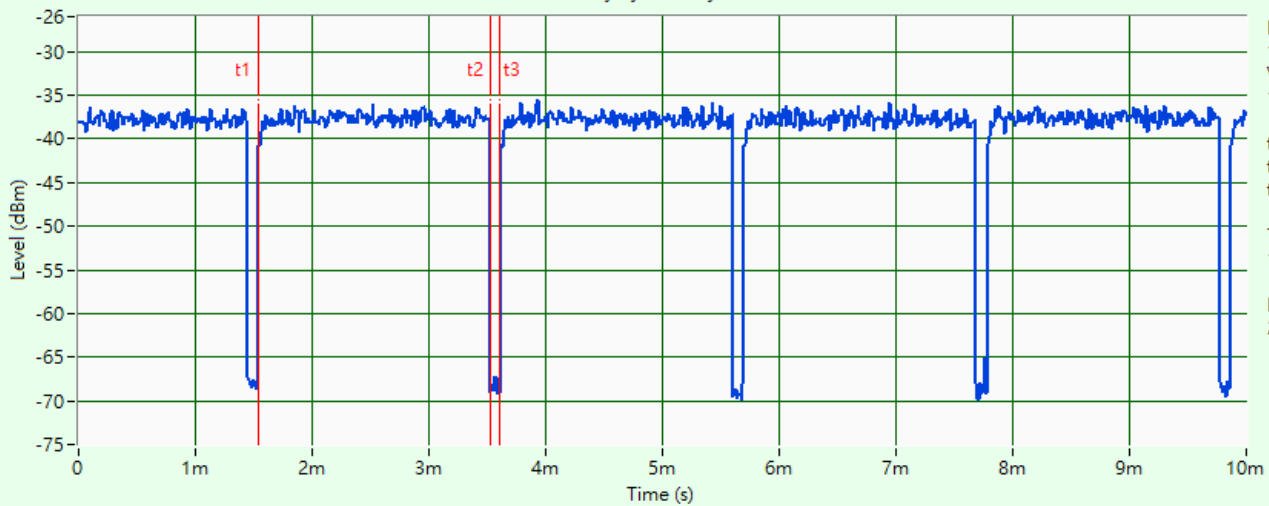


802.11a



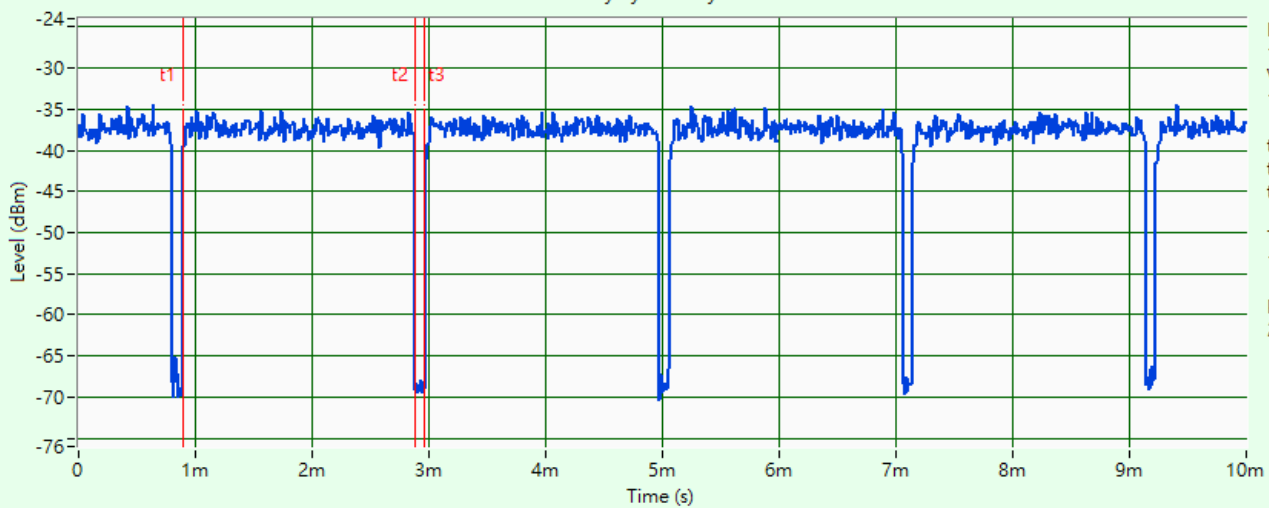
802.11ax (HE20)

Duty Cycle Analysis



802.11ax (HE40)

Duty Cycle Analysis

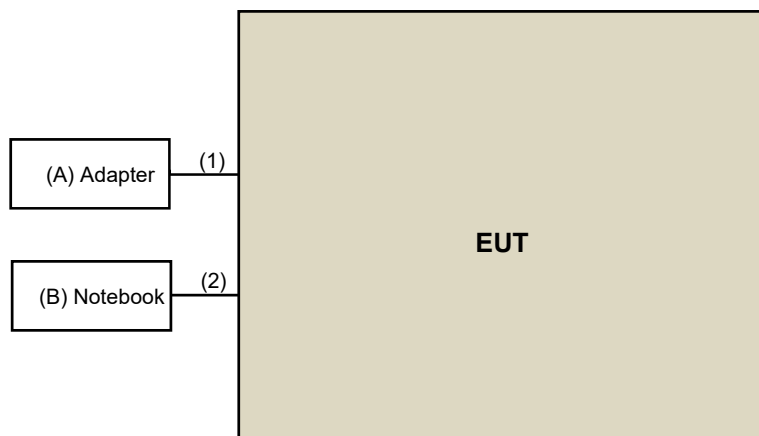


802.11ax (HE80)

3.6 Test Program Used and Operation Descriptions

Controlling software PuTTY Configuration 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	Adapter	HONOTO	ADS-24FUD-12 12024EPCU	N/A	N/A	Supplied by applicant
B	Notebook	HP	15s-du0003tu	CDN9281WLL	N/A	Provided by Lab

ID	Cable Descriptions	Qty.	Length (m)	Shielding (Yes/No)	Cores (Qty.)	Remarks
1	DC Power Cable	1	1.6	N	0	Supplied by applicant
2	USB Type C Cable	1	1.0	Y	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
Signal & Spectrum Analyzer R&S	FSV3044	101504	2024/6/18	2025/6/17
Software BV	ADT_RF Test Software V7.6.5.4	N/A	N/A	N/A

Notes:

1. The test was performed in Oven room.
2. Tested Date: 2025/4/14

4.2 RF Output Power

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Peak Power Analyzer Keysight	8990B	MY51000538	2024/4/29	2025/4/28
Signal & Spectrum Analyzer R&S	FSV3044	101504	2024/6/18	2025/6/17
Software BV	ADT_RF Test Software V7.6.5.4	N/A	N/A	N/A
Wideband Power Sensor Keysight	N1923A	MY58200003	2024/6/17	2025/6/16

Notes:

1. The test was performed in Oven room.
2. Tested Date: 2025/4/14

4.3 Power Spectral Density

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

4.4 6 dB Bandwidth

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

4.5 Occupied Bandwidth

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

4.6 AC Power Conducted Emissions

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
50 ohm terminal resistance	E1-011279	04	2024/11/28	2025/11/27
	E1-011280	05	2024/11/28	2025/11/27
	E1-011311	09	2024/11/28	2025/11/27
DC-LISN Schwarzbeck	NNBM 8126G	8126G-069	2024/11/5	2025/11/4
EMI Test Receiver R&S	ESCI	100613	2024/11/25	2025/11/24
Fixed Attenuator Mini-Circuits	HAT-10+	PAD-COND1-01	2025/1/5	2026/1/4
LISN R&S	ENV216	101826	2025/3/24	2026/3/23
	ESH3-Z5	100311	2024/9/5	2025/9/4
RF Coaxial Cable Woken	5D-FB	Cable-cond1-01	2025/1/5	2026/1/4
Software BVADT	BVADT_Cond_ V7.4.1.0	N/A	N/A	N/A
V-LISN Schwarzbeck	NNBL 8226-2	8226-142	2024/8/28	2025/8/27

Notes:

1. The test was performed in HY - Conduction 1.
2. Tested Date: 2025/4/2

4.7 Unwanted Emissions below 1 GHz

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Antenna Tower Max-Full	MFA-515BSN	N/A	N/A	N/A
Bi_Log Antenna Schwarzbeck	VULB 9168	9168-1214	2024/10/15	2025/10/14
EXA Signal Analyzer Agilent	N9010A	MY52220207	2024/12/30	2025/12/29
Loop Antenna TESEQ	HLA 6121	45745	2024/8/21	2025/8/20
MXE EMI Receiver Agilent	N9038A	MY52260177	2024/9/19	2025/9/18
Preamplifier EMCI	EMC330N	980798	2025/1/14	2026/1/13
RF Coaxial Cable EMCI	EMCCFD400-NM-NM-500	201248	2025/1/14	2026/1/13
	EMCCFD400-NM-NM-3000	201249	2025/1/14	2026/1/13
	EMCCFD400-NM-NM-9000	201251(with PAD)	2025/1/14	2026/1/13
Software BV ADT	ADT_Radiated_ V7.6.15.9.5	N/A	N/A	N/A
Turn Table Max-Full	MFT-201SS	N/A	N/A	N/A
Turn Table Controller Max-Full	MF-7802BS	MF780208676	N/A	N/A

Notes:

1. The test was performed in WM - 966 chamber 9.
2. Tested Date: 2025/4/2

4.8 Unwanted Emissions above 1 GHz

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Antenna Tower Max-Full	MFA-515BSN	N/A	N/A	N/A
EXA Signal Analyzer Agilent	N9010A	MY52220207	2024/12/30	2025/12/29
Horn Antenna RFSPIN	DRH18-E	210104A18E	2024/11/10	2025/11/9
Horn Antenna Schwarzbeck	BBHA 9170	9170-1049	2024/11/10	2025/11/9
MXE EMI Receiver Agilent	N9038A	MY52260177	2024/9/19	2025/9/18
Preamplifier Agilent	83017A	MY39501357	2024/6/12	2025/6/11
Preamplifier EMCI	EMC184045SE	980788	2025/1/14	2026/1/13
RF Coaxial Cable EMCI	EMC101G-KM-KM-2000	201254	2025/1/14	2026/1/13
	EMC101G-KM-KM-3000	201258	2025/1/14	2026/1/13
	EMC101G-KM-KM-5000	201261	2025/1/14	2026/1/13
	EMC104-SM-SM-1000	210103	2025/1/14	2026/1/13
	EMC104-SM-SM-3000	201241	2025/1/14	2026/1/13
	EMC104-SM-SM-9000	201244	2025/1/14	2026/1/13
Software BV ADT	ADT_Radiated_ V7.6.15.9.5	N/A	N/A	N/A
Turn Table Max-Full	MFT-201SS	N/A	N/A	N/A
Turn Table Controller Max-Full	MF-7802BS	MF780208676	N/A	N/A

Notes:

1. The test was performed in WM - 966 chamber 9.
2. Tested Date: 2025/3/27 ~ 2025/4/1

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

*B is the 26 dB emission bandwidth in megahertz

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

Array Gain = 0 dB (i.e., no array gain) for $N_{ANT} \leq 4$;

Array Gain = 0 dB (i.e., no array gain) for channel widths ≥ 40 MHz for any N_{ANT} ;

Array Gain = $5 \log(N_{ANT}/N_{SS})$ dB or 3 dB, whichever is less, for 20-MHz channel widths with $N_{ANT} \geq 5$.

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

5.3 Power Spectral Density

Operation Band	EUT Category	Limit
U-NII-1	Outdoor Access Point	17 dBm/MHz
	Fixed point-to-point Access Point	
	Indoor Access Point	
	Mobile and Portable client device	11 dBm/MHz

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

5.4 6 dB Bandwidth

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

5.5 Occupied Bandwidth

The results are for reference only.

5.6 AC Power Conducted Emissions

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

Notes:

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

5.7 Unwanted Emissions below 1 GHz

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

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

Notes:

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

5.8 Unwanted Emissions above 1 GHz

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

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

Notes:

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

Limits of unwanted emission out of the restricted bands

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

For transmitters operating in the 5.15-5.25 GHz band:

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

For transmitters operating in the 5.25-5.35 GHz band:

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

For transmitters operating in the 5.47-5.725 GHz band:

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

For transmitters operating in the 5.725-5.850 GHz band:

Applicable To	EIRP Limit	Equivalent Field Strength at 3 m
15.407(b)(4)(i)	PK: -27 (dBm/MHz) ^{*1}	PK: 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.

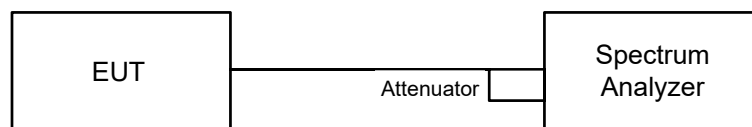
Note: The following formula is used to convert the equipment isotropic radiated power (eirp) to field strength:

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

6 Test Arrangements

6.1 26 dB Bandwidth

6.1.1 Test Setup

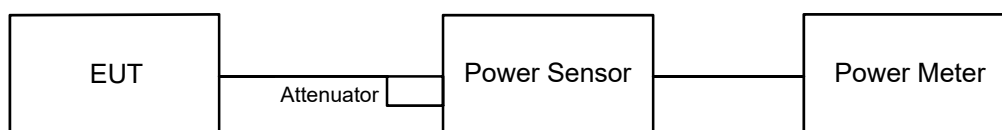


6.1.2 Test Procedure

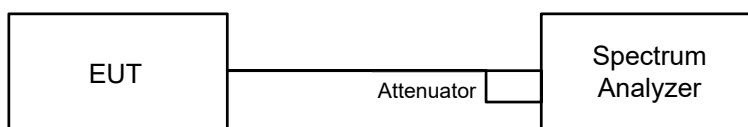
- Set RBW = approximately 1% of the emission bandwidth.
- Set the VBW > RBW.
- Detector = Peak.
- Trace mode = max hold.
- Measure the maximum width of the emission that is 26 dB down from the peak of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement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

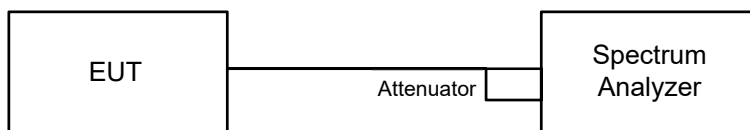
Method SA-2A

- Set span to encompass the entire emission bandwidth (EBW) of the signal.
- Set RBW = 1 MHz, Set VBW ≥ 3 MHz, Detector = RMS
- Sweep points ≥ $[2 \times \text{span} / \text{RBW}]$. (This gives bin-to-bin spacing ≤ RBW / 2, so that narrowband signals are not lost between frequency bins.)
- Manually set sweep time ≥ $10 \times (\text{number of points in sweep}) \times (\text{total on/off period of the transmitted signal})$.
- Perform a single sweep.
- Record the max value and add $10 \log (1/\text{duty cycle})$.

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-2

- 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.
- Use the peak search function on the instrument to find the peak of the spectrum and record its value.
- Record the max value and add 10 log (1/duty cycle).

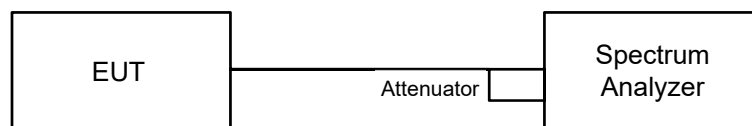
For specified measurement bandwidth 500 kHz:

Method SA-2

- 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.
- Use the peak search function on the instrument to find the peak of the spectrum and record its value.
- Record the max value and add 10 log (1/duty cycle).

6.4 6 dB Bandwidth

6.4.1 Test Setup

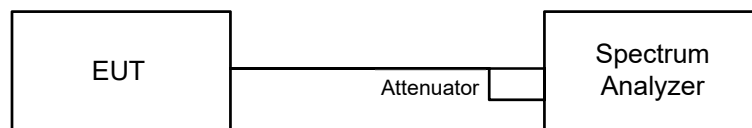


6.4.2 Test Procedure

- Set resolution bandwidth (RBW) = 100 kHz.
- Set the video bandwidth (VBW) $\geq 3 \times \text{RBW}$, Detector = Peak.
- Trace mode = max hold.
- Sweep = auto couple.
- Measure the maximum width of the emission that is constrained by the frequencies associated with the two amplitude points (upper and lower) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

6.5 Occupied Bandwidth

6.5.1 Test Setup

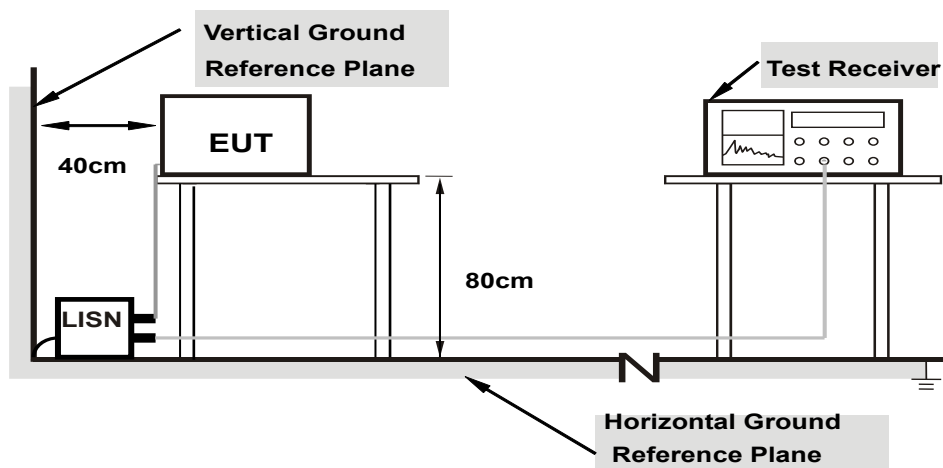


6.5.2 Test Procedure

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

6.6 AC Power Conducted Emissions

6.6.1 Test Setup



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

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

6.6.2 Test Procedure

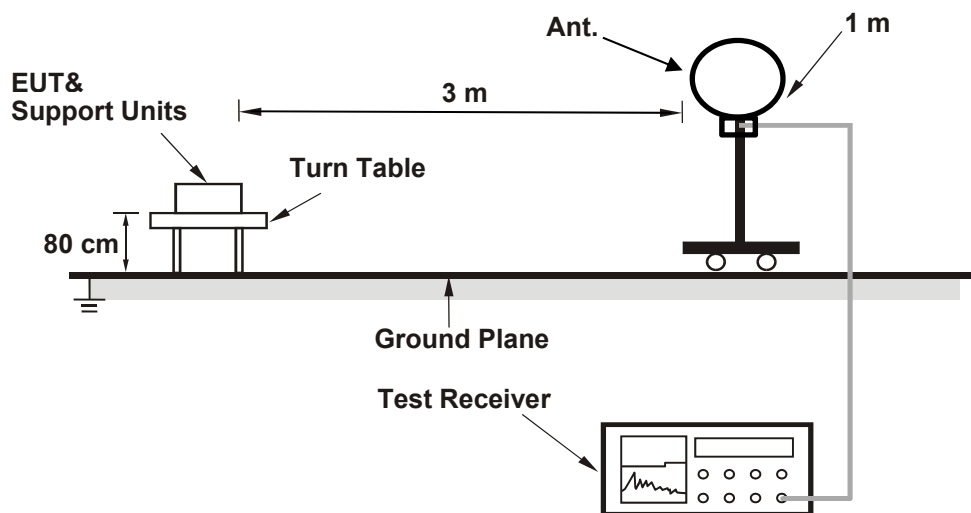
- The EUT was placed on a 0.8 meter to the top of table and placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50 uH of coupling impedance for the measuring instrument.
- Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
- The frequency range from 150 kHz to 30 MHz was searched. Emission levels under (Limit – 20 dB) was not recorded.

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

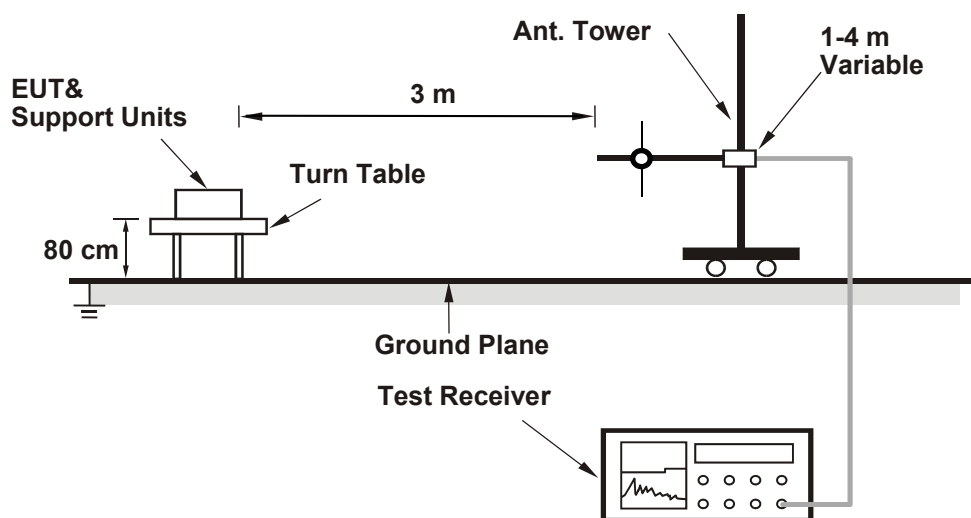
6.7 Unwanted Emissions below 1 GHz

6.7.1 Test Setup

For Radiated emission below 30 MHz



For Radiated emission above 30 MHz



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

6.7.2 Test Procedure

For Radiated emission below 30 MHz

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. Parallel, perpendicular, and ground-parallel orientations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Quasi-Peak Detect Function and Specified Bandwidth with Maximum Hold Mode, except for the frequency band (9 kHz to 90 kHz and 110 kHz to 490 kHz) set to average detect function and peak detect function.

Notes:

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

For Radiated emission above 30 MHz

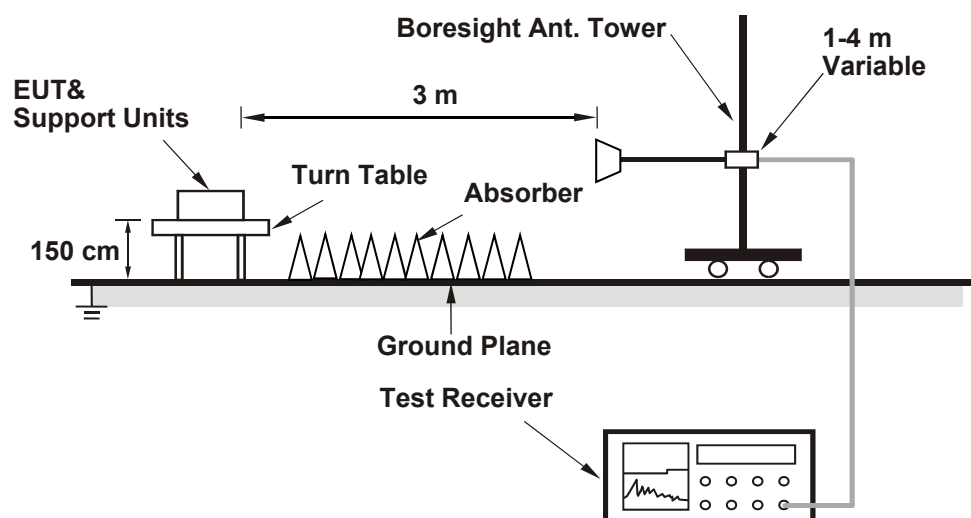
- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1 GHz.

Notes:

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

6.8 Unwanted Emissions above 1 GHz

6.8.1 Test Setup



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

6.8.2 Test Procedure

- 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:	Chris Lin
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802.11a

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	
		Chain 0	Chain 1
52	5260	21.22	21.06
60	5300	21.21	21.07
64	5320	21.19	21.06
100	5500	21.21	21.12
116	5580	21.20	21.07
140	5700	21.20	21.01
144 (U-NII-2C)	5720	15.50	15.62
144 (U-NII-3)	5720	5.56	5.51

Determined Output Power Limit			
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)
52	5260	21.06	24.23 > 24
60	5300	21.07	24.23 > 24
64	5320	21.06	24.23 > 24
100	5500	21.12	24.24 > 24
116	5580	21.07	24.23 > 24
140	5700	21.01	24.22 > 24
144 (U-NII-2C)	5720	15.50	22.90 < 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
52	5260	21.63	21.67
60	5300	21.84	21.71
64	5320	21.58	21.55
100	5500	21.90	21.77
116	5580	21.92	21.46
140	5700	21.61	21.67
144 (U-NII-2C)	5720	15.92	15.86
144 (U-NII-3)	5720	5.77	5.78

Determined Output Power Limit			
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)
52	5260	21.63	24.35 > 24
60	5300	21.71	24.36 > 24
64	5320	21.55	24.33 > 24
100	5500	21.77	24.37 > 24
116	5580	21.46	24.31 > 24
140	5700	21.61	24.34 > 24
144 (U-NII-2C)	5720	15.86	23.00 < 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
54	5270	40.58	40.86
62	5310	40.66	40.88
102	5510	40.75	40.45
110	5550	40.65	40.48
134	5670	40.82	40.59
142 (U-NII-2C)	5710	35.34	35.34
142 (U-NII-3)	5710	5.26	5.45

Determined Output Power Limit			
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)
54	5270	40.58	27.08 > 24
62	5310	40.66	27.09 > 24
102	5510	40.45	27.06 > 24
110	5550	40.48	27.07 > 24
134	5670	40.59	27.08 > 24
142 (U-NII-2C)	5710	35.34	26.48 > 24

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

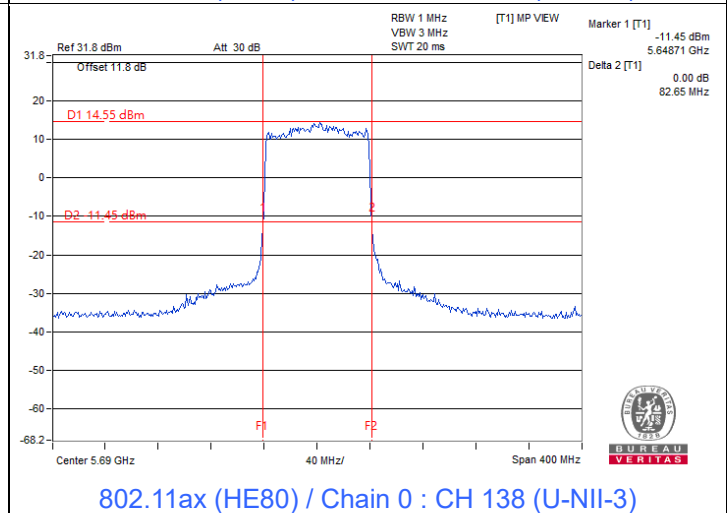
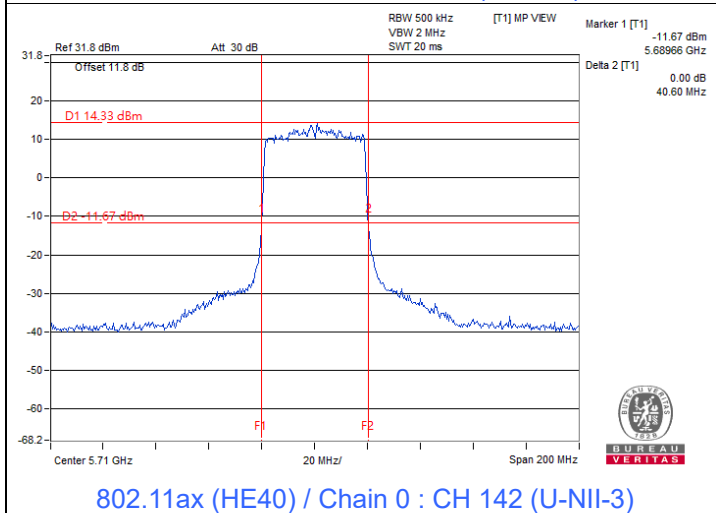
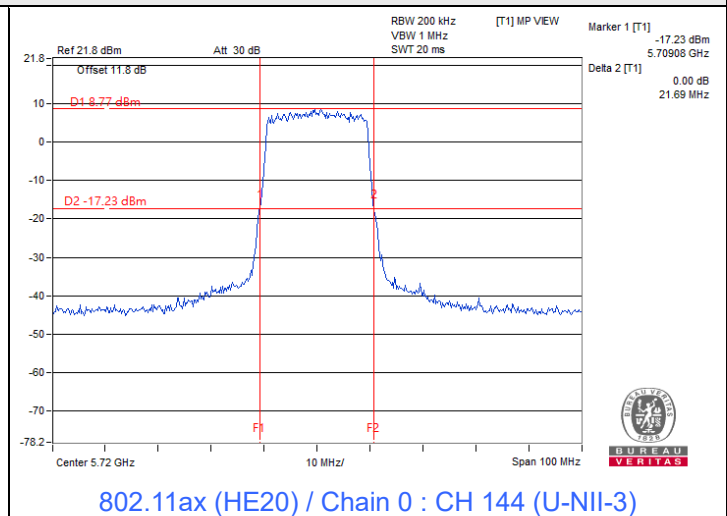
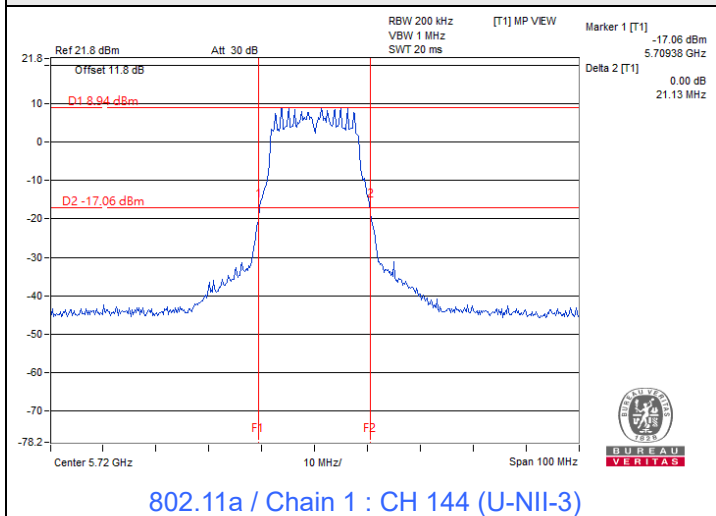
802.11ax (HE80)

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	
		Chain 0	Chain 1
58	5290	83.32	82.66
106	5530	82.52	82.96
122	5610	82.93	82.79
138 (U-NII-2C)	5690	76.29	76.33
138 (U-NII-3)	5690	6.36	6.37

Determined Output Power Limit			
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)
58	5290	82.66	30.17 > 24
106	5530	82.52	30.16 > 24
122	5610	82.79	30.17 > 24
138 (U-NII-2C)	5690	76.29	29.82 > 24

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

Spectrum Plot of Minimum Value



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:	Chris Lin
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802.11a

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
36	5180	18.18	17.74	125.195	20.98	24	Pass
40	5200	17.99	17.79	123.068	20.90	24	Pass
48	5240	18.04	17.79	123.797	20.93	24	Pass
52	5260	18.03	17.61	121.210	20.84	24	Pass
60	5300	18.09	17.86	125.511	20.99	24	Pass
64	5320	17.93	17.71	121.107	20.83	24	Pass
100	5500	18.04	17.89	125.197	20.98	24	Pass
116	5580	18.00	17.72	122.252	20.87	24	Pass
140	5700	17.98	17.65	121.016	20.83	24	Pass
*144 (U-NII-2C)	5720	16.31	15.48	80.020	19.03	22.9	Pass
*144 (U-NII-3)	5720	8.86	8.01	14.365	11.57	30	Pass
149	5745	25.69	25.18	700.290	28.45	30	Pass
157	5785	25.43	24.93	660.312	28.20	30	Pass
165	5825	24.74	24.21	561.485	27.49	30	Pass

Notes:

- * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-2A 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 5.9 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the maximum gain is 5.9 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the maximum gain is 5.9 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the maximum gain is 5.9 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11ax (HE20)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
36	5180	18.06	17.77	123.815	20.93	24	Pass
40	5200	18.02	17.80	123.643	20.92	24	Pass
48	5240	18.05	17.91	125.628	20.99	24	Pass
52	5260	18.06	17.87	125.209	20.98	24	Pass
60	5300	18.00	17.81	123.491	20.92	24	Pass
64	5320	18.06	17.89	125.491	20.99	24	Pass
100	5500	18.10	17.76	124.269	20.94	24	Pass
116	5580	18.03	17.86	124.627	20.96	24	Pass
140	5700	18.01	17.73	122.534	20.88	24	Pass
*144 (U-NII-2C)	5720	16.43	16.62	93.469	19.71	23	Pass
*144 (U-NII-3)	5720	10.59	10.85	24.562	13.90	30	Pass
149	5745	25.59	25.24	696.438	28.43	30	Pass
157	5785	24.53	24.18	545.610	27.37	30	Pass
165	5825	23.32	22.97	412.936	26.16	30	Pass

Notes:

- * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-2A 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 5.9 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the maximum gain is 5.9 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the maximum gain is 5.9 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the maximum gain is 5.9 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11ax (HE40)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
38	5190	20.92	20.83	244.655	23.89	24	Pass
46	5230	20.97	20.81	245.529	23.90	24	Pass
54	5270	20.98	20.85	246.933	23.93	24	Pass
62	5310	20.93	20.98	249.194	23.97	24	Pass
102	5510	21.05	20.87	249.530	23.97	24	Pass
110	5550	20.95	20.73	242.756	23.85	24	Pass
134	5670	20.92	20.83	244.655	23.89	24	Pass
*142 (U-NII-2C)	5710	19.26	19.23	174.844	22.43	24	Pass
*142 (U-NII-3)	5710	9.12	9.02	16.795	12.25	30	Pass
151	5755	24.96	24.63	603.731	27.81	30	Pass
159	5795	25.97	25.42	743.704	28.71	30	Pass

Notes:

- * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-2A 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 5.9 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the maximum gain is 5.9 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the maximum gain is 5.9 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the maximum gain is 5.9 dBi < 6 dBi, so the output power limit shall not be reduced.

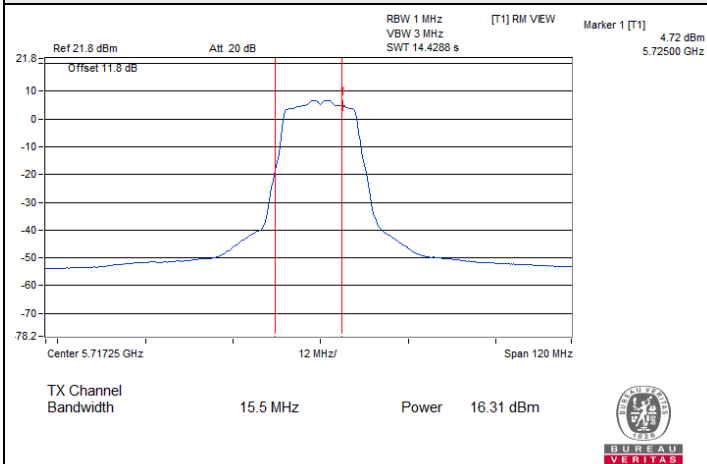
802.11ax (HE80)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
42	5210	19.83	19.42	183.660	22.64	24	Pass
58	5290	20.96	20.54	237.978	23.77	24	Pass
106	5530	19.48	19.13	170.562	22.32	24	Pass
122	5610	20.73	20.57	232.329	23.66	24	Pass
*138 (U-NII-2C)	5690	19.96	19.88	204.252	23.10	24	Pass
*138 (U-NII-3)	5690	6.65	6.57	9.532	9.79	30	Pass
155	5775	21.92	21.43	294.592	24.69	30	Pass

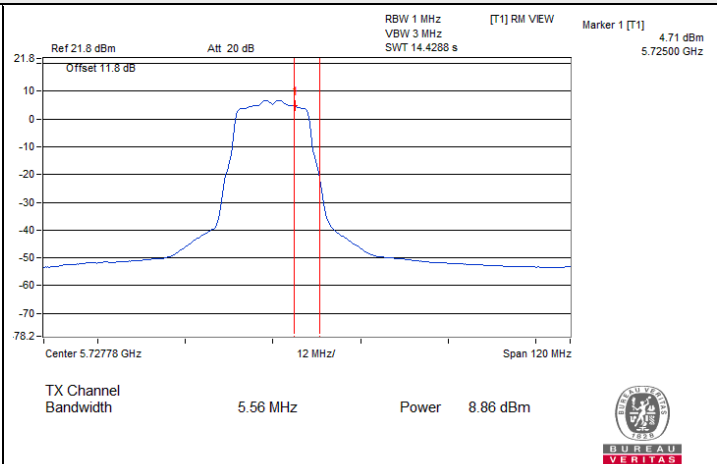
Notes:

- * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-2A 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 5.9 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the maximum gain is 5.9 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the maximum gain is 5.9 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the maximum gain is 5.9 dBi < 6 dBi, so the output power limit shall not be reduced.

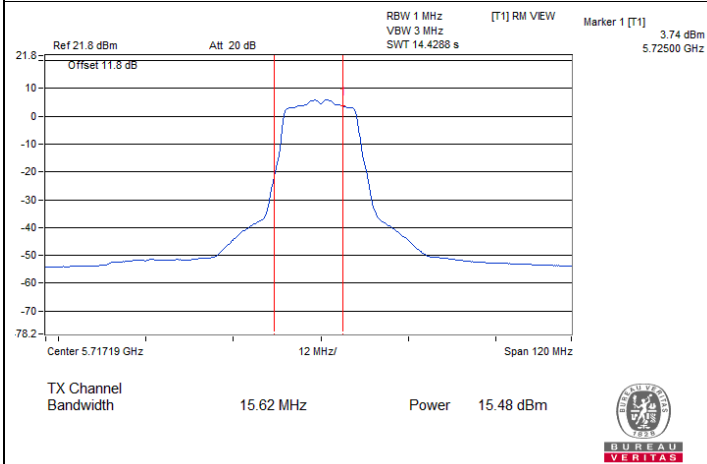
Spectrum Plot for channel straddling



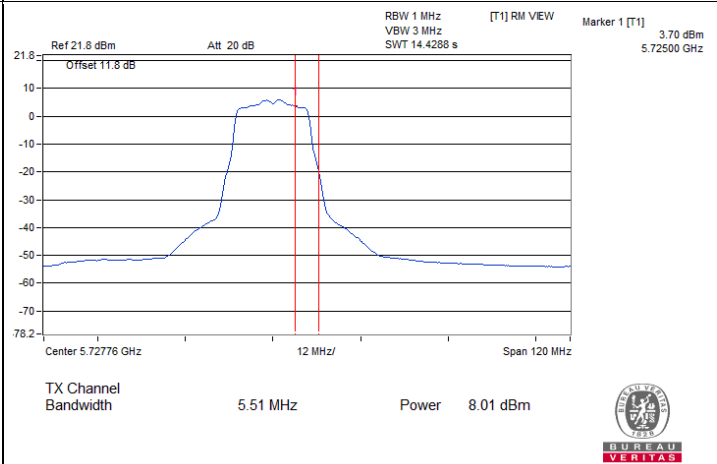
802.11a / Chain 0 : CH 144 (U-NII-2C)



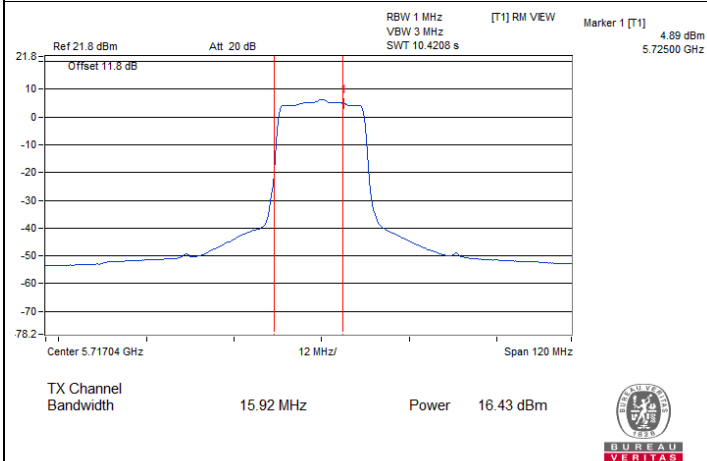
802.11a / Chain 0 : CH 144 (U-NII-3)



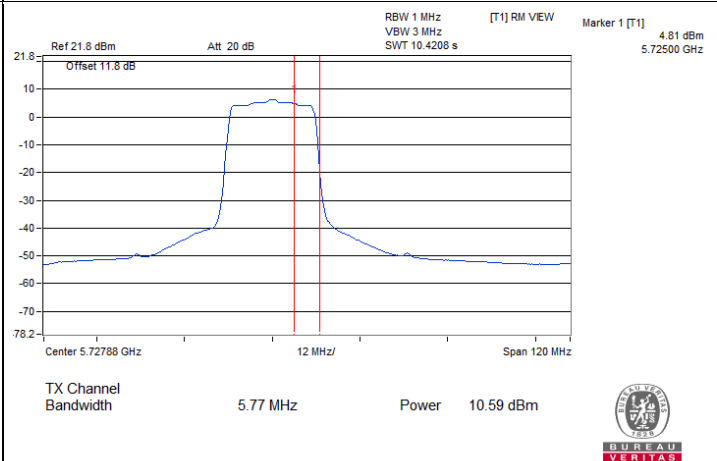
802.11a / Chain 1 : CH 144 (U-NII-2C)



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

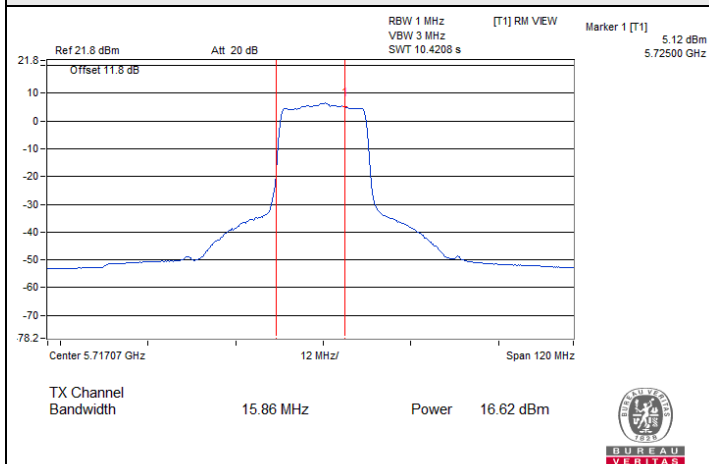


802.11ax (HE20) / Chain 0 : CH 144 (U-NII-2C)

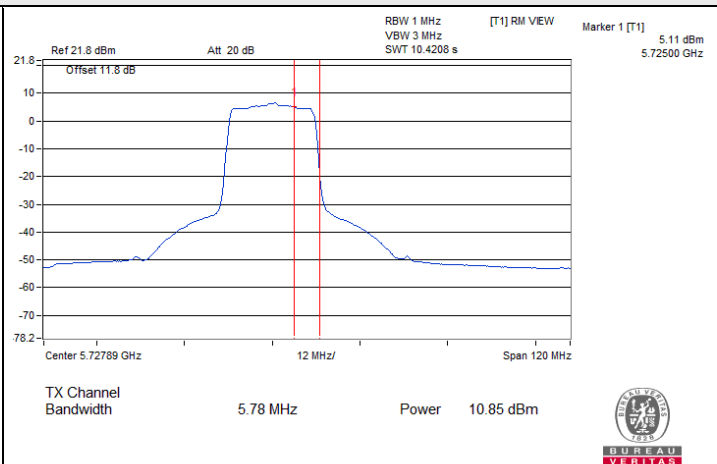


802.11ax (HE20) / Chain 0 : CH 144 (U-NII-3)

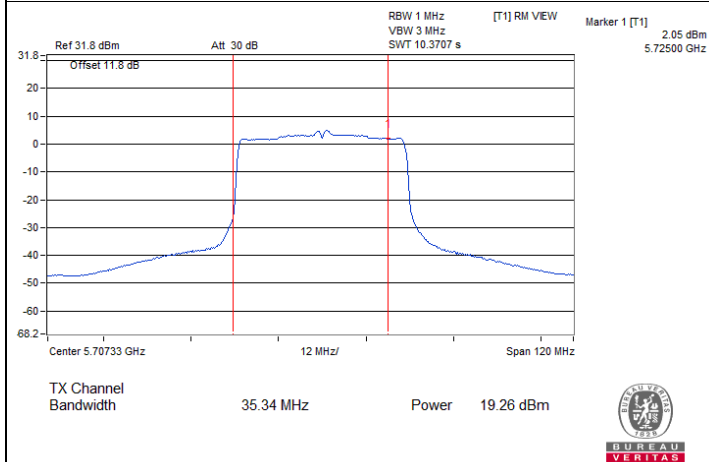
Spectrum Plot for channel straddling



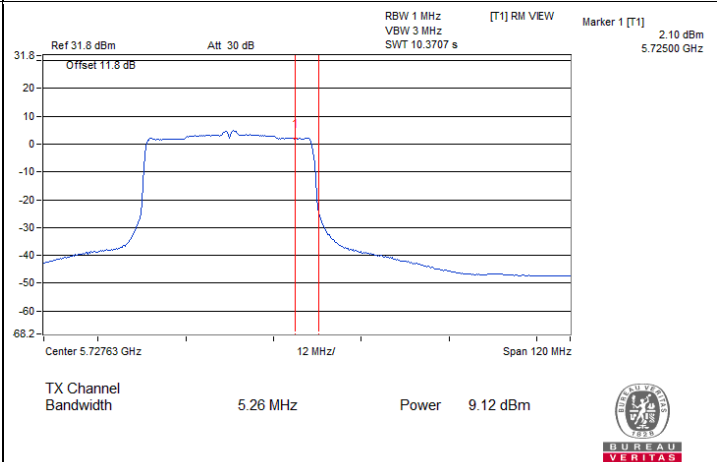
802.11ax (HE20) / Chain 1 : CH 144 (U-NII-2C)



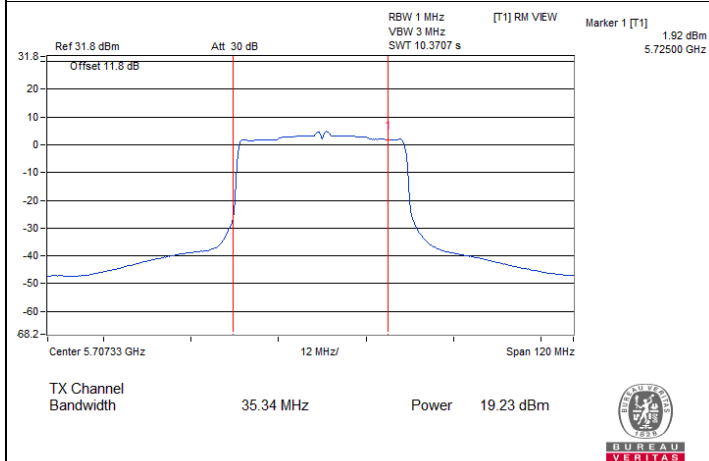
802.11ax (HE20) / Chain 1 : CH 144 (U-NII-3)



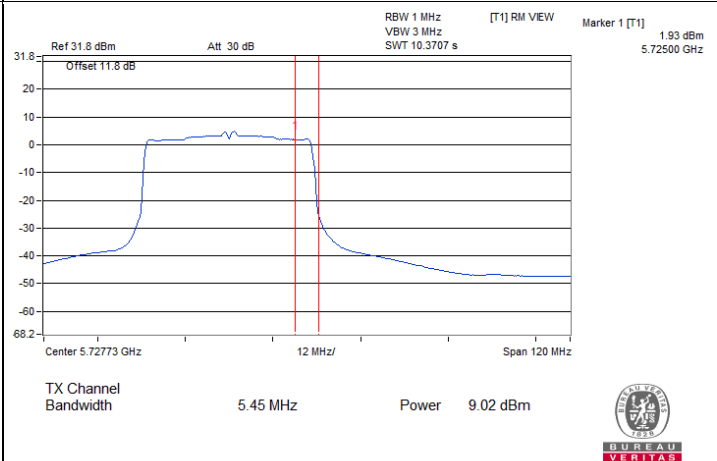
802.11ax (HE40) / Chain 0 : CH 142 (U-NII-2C)



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

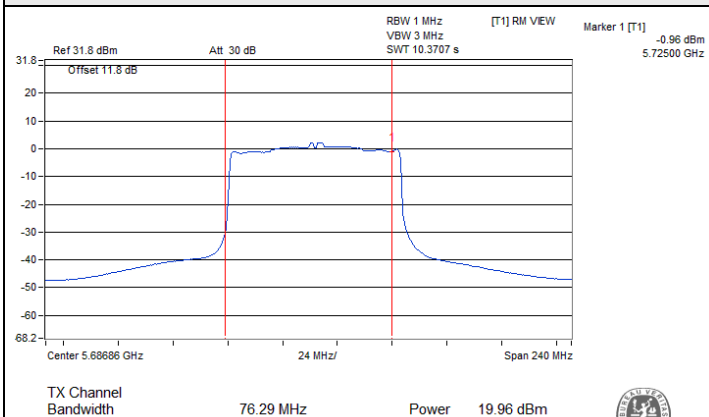


802.11ax (HE40) / Chain 1 : CH 142 (U-NII-2C)

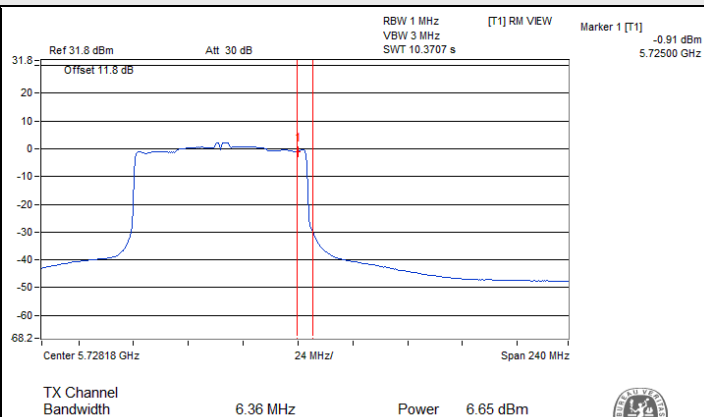


802.11ax (HE40) / Chain 1 : CH 142 (U-NII-3)

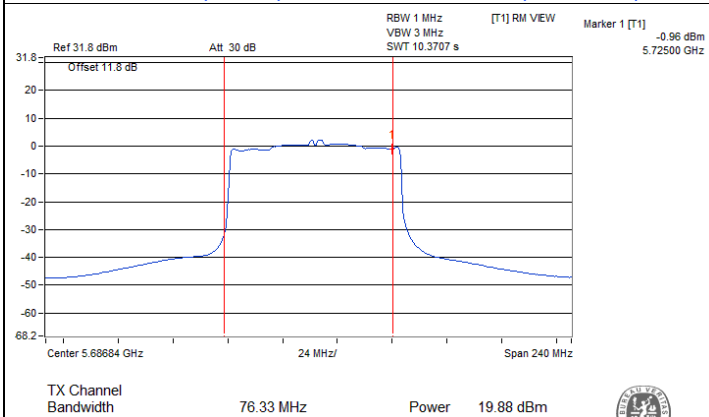
Spectrum Plot for channel straddling



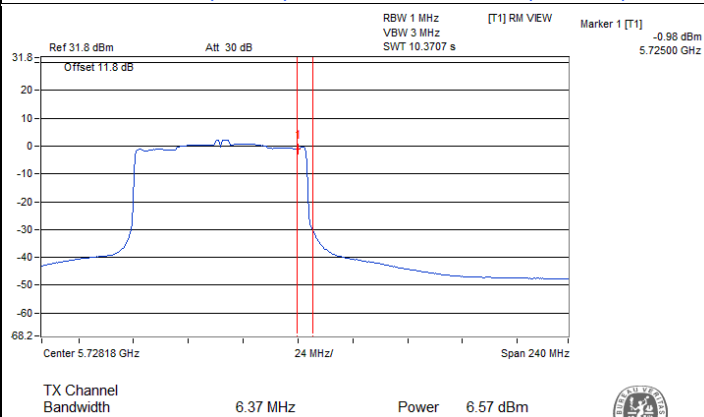
802.11ax (HE80) / Chain 0 : CH 138 (U-NII-2C)



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



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



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

7.3 Power Spectral Density

Input Power:	120 Vac, 60 Hz	Environmental Conditions:	25°C, 60% RH	Tested By:	Chris Lin
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802.11a

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)		Duty Factor (dB)	Total PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1				
36	5180	5.11	4.69	0.11	8.03	8.09	Pass
40	5200	4.99	4.79	0.11	8.01	8.09	Pass
48	5240	5.04	4.79	0.11	8.04	8.09	Pass
52	5260	5.03	4.61	0.11	7.95	8.09	Pass
60	5300	5.09	4.76	0.11	8.05	8.09	Pass
64	5320	4.93	4.71	0.11	7.94	8.09	Pass
100	5500	5.04	4.79	0.11	8.04	8.09	Pass
116	5580	5.00	4.72	0.11	7.98	8.09	Pass
140	5700	4.98	4.65	0.11	7.94	8.09	Pass
144 (U-NII-2C)	5720	4.89	4.79	0.11	7.96	8.09	Pass

Notes:

1. Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain = gain of antenna element + 10 log (2 of TX antenna elements)
3. For U-NII-1, the directional gain is 8.91 dBi > 6dBi, so the power density limit shall be reduced to 11-(8.91-6) = 8.09 dBm/MHz.
4. For U-NII-2A, the directional gain is 8.91 dBi > 6 dBi, so the power density limit shall be reduced to 11-(8.91-6) = 8.09 dBm/MHz.
5. For U-NII-2C, the directional gain is 8.91 dBi > 6 dBi, so the power density limit shall be reduced to 11-(8.91-6) = 8.09 dBm/MHz.

802.11ax (HE20)

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)		Duty Factor (dB)	Total PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1				
36	5180	5.06	4.67	0.17	8.05	8.09	Pass
40	5200	5.02	4.70	0.17	8.04	8.09	Pass
48	5240	5.05	4.71	0.17	8.06	8.09	Pass
52	5260	5.06	4.67	0.17	8.05	8.09	Pass
60	5300	5.00	4.71	0.17	8.04	8.09	Pass
64	5320	5.06	4.69	0.17	8.06	8.09	Pass
100	5500	5.10	4.66	0.17	8.07	8.09	Pass
116	5580	5.03	4.76	0.17	8.08	8.09	Pass
140	5700	5.01	4.73	0.17	8.05	8.09	Pass
144 (U-NII-2C)	5720	5.00	4.79	0.17	8.08	8.09	Pass

Notes:

1. Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain = gain of antenna element + 10 log (2 of TX antenna elements)
3. For U-NII-1, the directional gain is 8.91 dBi > 6dBi, so the power density limit shall be reduced to 11-(8.91-6) = 8.09 dBm/MHz.
4. For U-NII-2A, the directional gain is 8.91 dBi > 6 dBi, so the power density limit shall be reduced to 11-(8.91-6) = 8.09 dBm/MHz.
5. For U-NII-2C, the directional gain is 8.91 dBi > 6 dBi, so the power density limit shall be reduced to 11-(8.91-6) = 8.09 dBm/MHz.

802.11ax (HE40)

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)		Duty Factor (dB)	Total PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1				
38	5190	4.92	4.83	0.17	8.06	8.09	Pass
46	5230	4.97	4.81	0.17	8.07	8.09	Pass
54	5270	4.98	4.75	0.17	8.05	8.09	Pass
62	5310	4.93	4.78	0.17	8.04	8.09	Pass
102	5510	5.05	4.67	0.17	8.04	8.09	Pass
110	5550	4.95	4.73	0.17	8.02	8.09	Pass
134	5670	4.92	4.83	0.17	8.06	8.09	Pass
142 (U-NII-2C)	5710	5.05	4.67	0.17	8.04	8.09	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 = gain of antenna element + 10 log (2 of TX antenna elements)
- For U-NII-1, the directional gain is 8.91 dBi > 6 dBi, so the power density limit shall be reduced to 11-(8.91-6) = 8.09 dBm/MHz.
- For U-NII-2A, the directional gain is 8.91 dBi > 6 dBi, so the power density limit shall be reduced to 11-(8.91-6) = 8.09 dBm/MHz.
- For U-NII-2C, the directional gain is 8.91 dBi > 6 dBi, so the power density limit shall be reduced to 11-(8.91-6) = 8.09 dBm/MHz.

802.11ax (HE80)

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)		Duty Factor (dB)	Total PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1				
42	5210	0.84	0.49	0.17	3.85	8.09	Pass
58	5290	1.95	1.65	0.17	4.98	8.09	Pass
106	5530	0.40	0.33	0.17	3.55	8.09	Pass
122	5610	1.66	1.36	0.17	4.69	8.09	Pass
138 (U-NII-2C)	5690	1.62	1.12	0.17	4.56	8.09	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 = gain of antenna element + 10 log (2 of TX antenna elements)
- For U-NII-1, the directional gain is 8.91 dBi > 6 dBi, so the power density limit shall be reduced to 11-(8.91-6) = 8.09 dBm/MHz.
- For U-NII-2A, the directional gain is 8.91 dBi > 6 dBi, so the power density limit shall be reduced to 11-(8.91-6) = 8.09 dBm/MHz.
- For U-NII-2C, the directional gain is 8.91 dBi > 6 dBi, so the power density limit shall be reduced to 11-(8.91-6) = 8.09 dBm/MHz.

802.11a

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/300kHz)		Total PSD w/o Duty Factor (dBm/300kHz)	Duty Factor (dB)	Total PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Test Result
		Chain 0	Chain 1					
144 (U-NII-3)	5720	-4.95	-5.95	-2.41	0.11	-0.08	27.09	Pass
149	5745	4.04	3.89	6.98	0.11	9.31	27.09	Pass
157	5785	4.01	3.52	6.78	0.11	9.11	27.09	Pass
165	5825	0.42	0.30	3.37	0.11	5.70	27.09	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 = gain of antenna element + 10 log (2 of TX antenna elements)
3. For U-NII-3, the directional gain is 8.91 dBi > 6 dBi, so the power density limit shall be reduced to 30-(8.91-6) = 27.09 dBm/500kHz.

802.11ax (HE20)

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/300kHz)		Total PSD w/o Duty Factor (dBm/300kHz)	Duty Factor (dB)	Total PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Test Result
		Chain 0	Chain 1					
144 (U-NII-3)	5720	-5.65	-5.40	-2.51	0.17	-0.12	27.09	Pass
149	5745	3.99	3.39	6.71	0.17	9.10	27.09	Pass
157	5785	4.00	3.35	6.70	0.17	9.09	27.09	Pass
165	5825	3.79	3.04	6.44	0.17	8.83	27.09	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 = gain of antenna element + 10 log (2 of TX antenna elements)
3. For U-NII-3, the directional gain is 8.91 dBi > 6 dBi, so the power density limit shall be reduced to 30-(8.91-6) = 27.09 dBm/500kHz.

802.11ax (HE40)

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/300kHz)		Total PSD w/o Duty Factor (dBm/300kHz)	Duty Factor (dB)	Total PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Test Result
		Chain 0	Chain 1					
142 (U-NII-3)	5710	-6.92	-6.98	-3.94	0.17	-1.55	27.09	Pass
151	5755	1.17	0.79	3.99	0.17	6.38	27.09	Pass
159	5795	0.96	0.56	3.77	0.17	6.16	27.09	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 = gain of antenna element + 10 log (2 of TX antenna elements)
3. For U-NII-3, the directional gain is 8.91 dBi > 6 dBi, so the power density limit shall be reduced to 30-(8.91-6) = 27.09 dBm/500kHz.

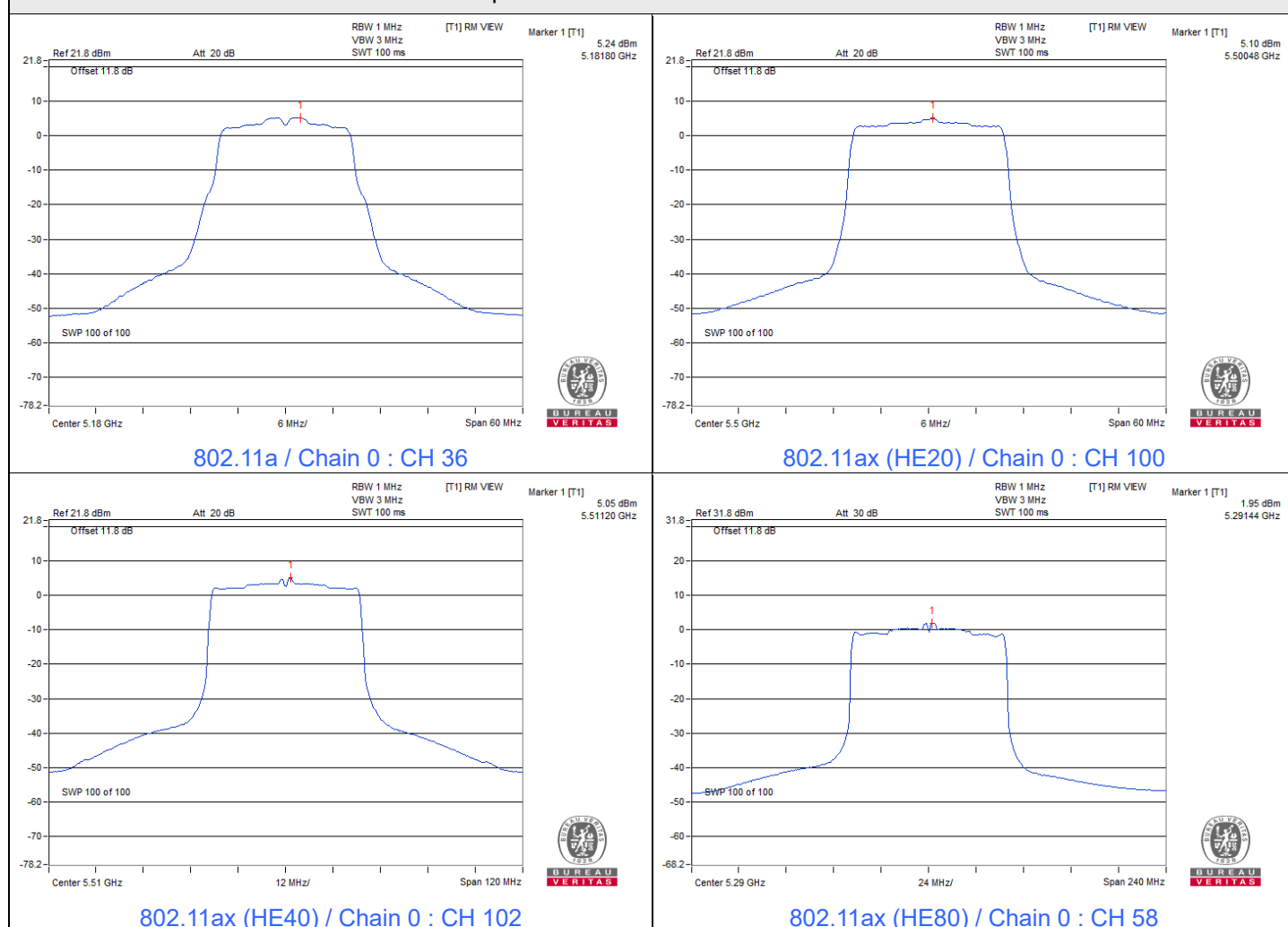
802.11ax (HE80)

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/300kHz)		Total PSD w/o Duty Factor (dBm/300kHz)	Duty Factor (dB)	Total PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Test Result
		Chain 0	Chain 1					
138 (U-NII-3)	5690	-9.29	-9.50	-6.38	0.17	-3.99	27.09	Pass
155	5775	-5.33	-5.43	-2.37	0.17	0.02	27.09	Pass

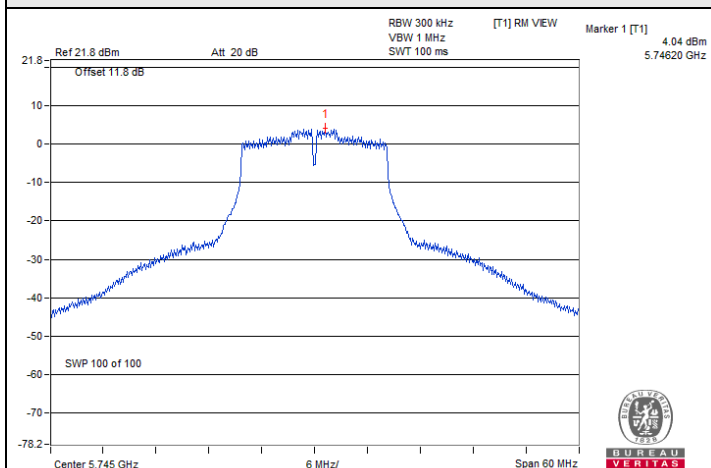
Notes:

- Method E) 2) b) Measure and sum spectral maxima across the outputs of KDB 662911 is using for calculating total power density.
- Directional gain = gain of antenna element + 10 log (2 of TX antenna elements)
- For U-NII-3, the directional gain is 8.91 dBi > 6 dBi, so the power density limit shall be reduced to 30-(8.91-6) = 27.09 dBm/500kHz.

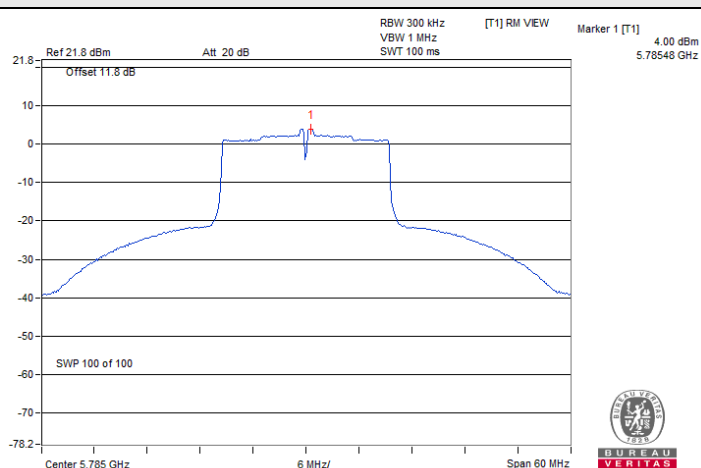
Spectrum Plot of Maximum Value



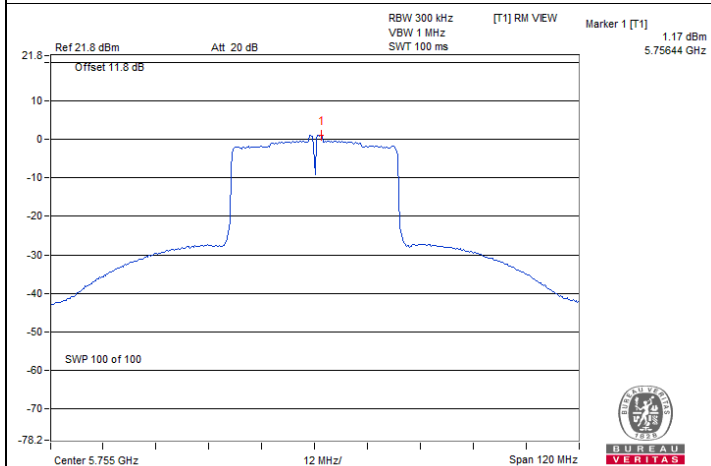
Spectrum Plot of Maximum Value



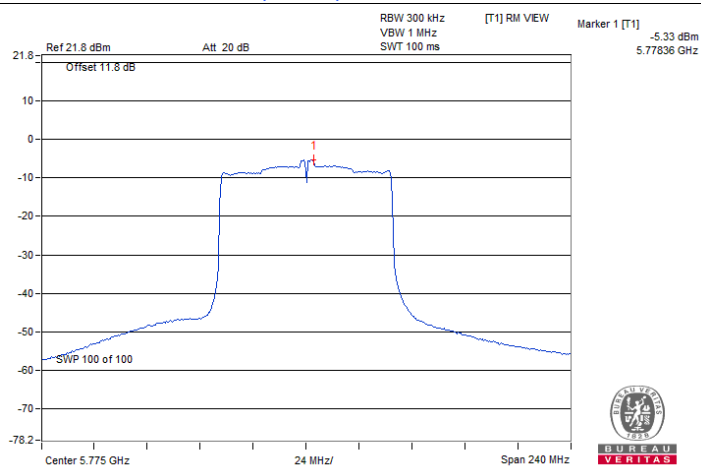
802.11a / Chain 0 : CH 149



802.11ax (HE20) / Chain 0 : CH 157



802.11ax (HE40) / Chain 0 : CH 151



802.11ax (HE80) / Chain 0 : CH 155

7.4 6 dB Bandwidth

Input Power:	120 Vac, 60 Hz	Environmental Conditions:	25°C, 60% RH	Tested By:	Chris Lin
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802.11a

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)		Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1		
144 (U-NII-3)	5720	2.53	2.53	0.5	Pass
149	5745	15.18	15.21	0.5	Pass
157	5785	15.21	15.21	0.5	Pass
165	5825	15.19	15.19	0.5	Pass

802.11ax (HE20)

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)		Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1		
144 (U-NII-3)	5720	4.47	4.41	0.5	Pass
149	5745	18.98	18.93	0.5	Pass
157	5785	19.00	18.93	0.5	Pass
165	5825	18.80	18.95	0.5	Pass

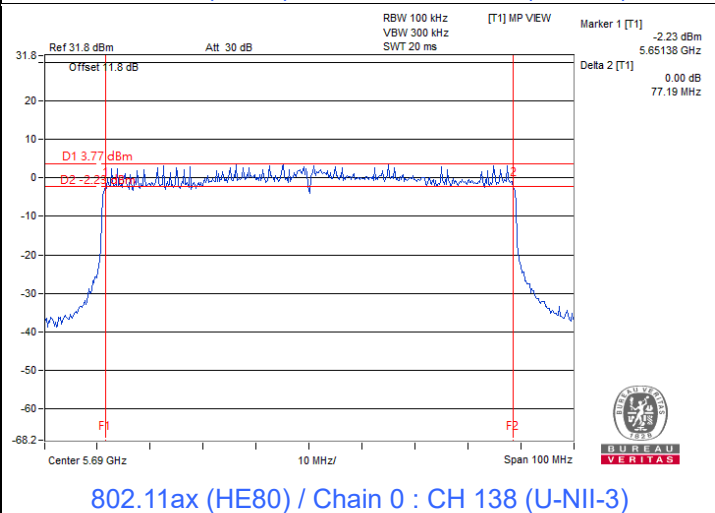
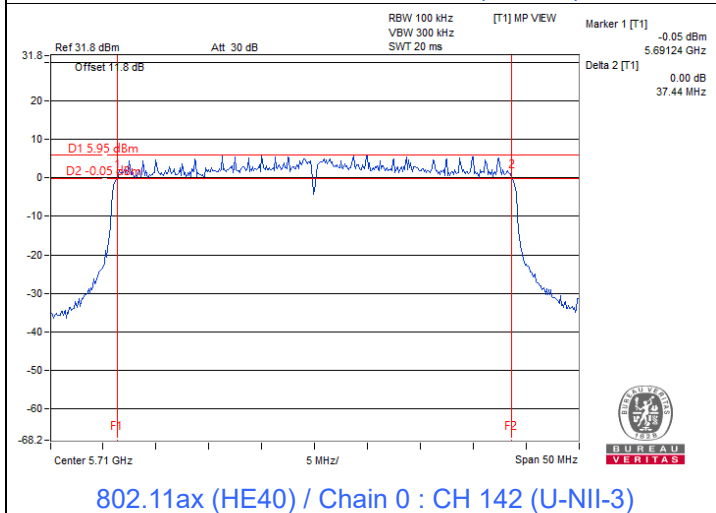
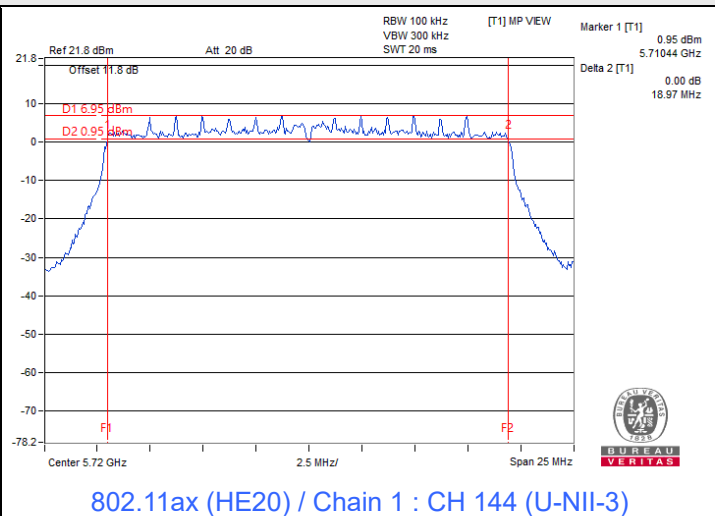
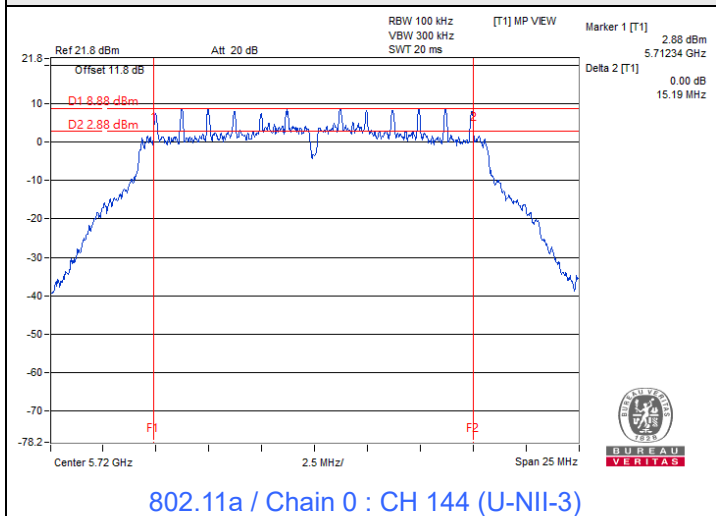
802.11ax (HE40)

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)		Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1		
142 (U-NII-3)	5710	3.68	3.77	0.5	Pass
151	5755	37.24	37.35	0.5	Pass
159	5795	37.26	36.96	0.5	Pass

802.11ax (HE80)

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)		Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1		
138 (U-NII-3)	5690	3.57	3.65	0.5	Pass
155	5775	76.93	76.81	0.5	Pass

Spectrum Plot of Minimum Value



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

7.5 Occupied Bandwidth

Input Power:	120 Vac, 60 Hz	Environmental Conditions:	25°C, 60% RH	Tested By:	Chris Lin
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802.11a

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
36	5180	17.04	16.68
40	5200	16.92	16.92
48	5240	17.04	16.68
52	5260	17.04	16.68
60	5300	17.04	16.80
64	5320	17.04	16.68
100	5500	16.92	16.68
116	5580	16.92	16.68
140	5700	16.92	16.68
144 (U-NII-2C)	5720	13.52	13.40
144 (U-NII-3)	5720	3.40	3.40
149	5745	17.34	16.92
157	5785	17.52	16.92
165	5825	16.98	17.04

802.11ax (HE20)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
36	5180	19.20	19.20
40	5200	19.20	19.20
48	5240	19.20	19.20
52	5260	19.20	19.20
60	5300	19.20	19.20
64	5320	19.20	19.20
100	5500	19.20	19.32
116	5580	19.20	19.20
140	5700	19.20	19.08
144 (U-NII-2C)	5720	14.72	14.72
144 (U-NII-3)	5720	4.60	4.48
149	5745	19.26	19.20
157	5785	19.56	19.20
165	5825	19.68	19.20

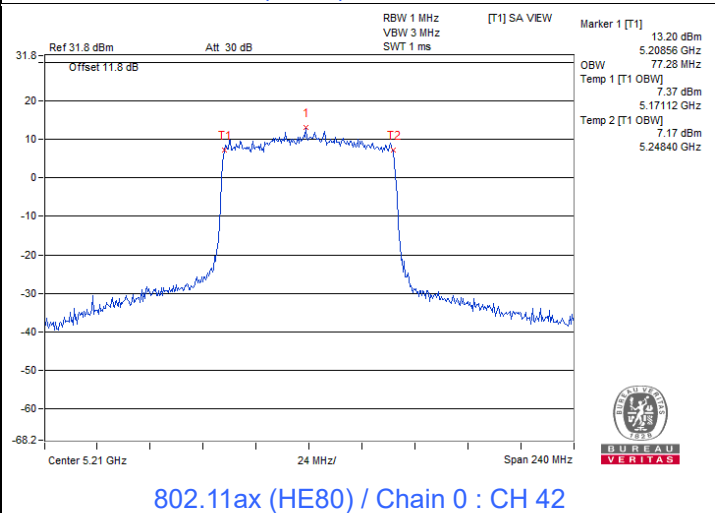
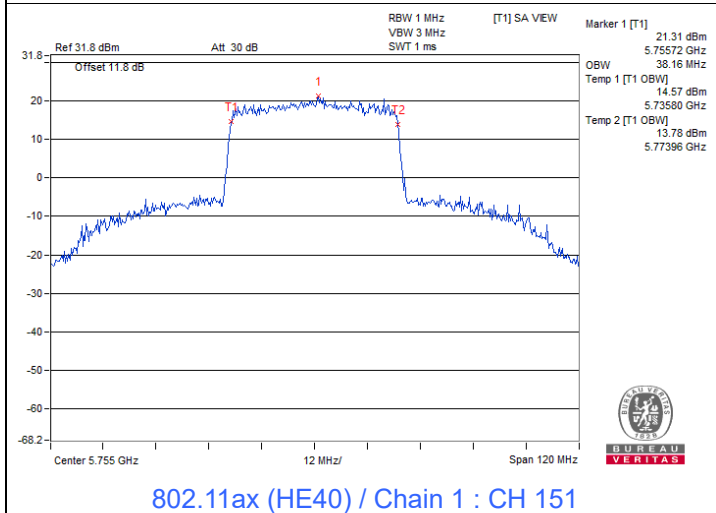
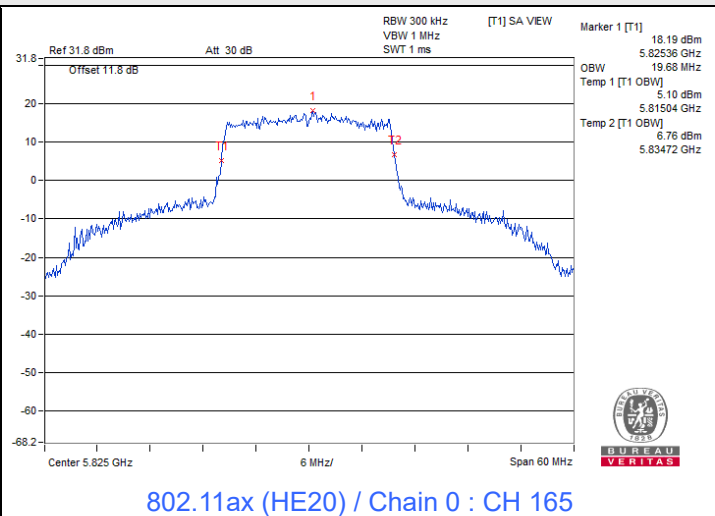
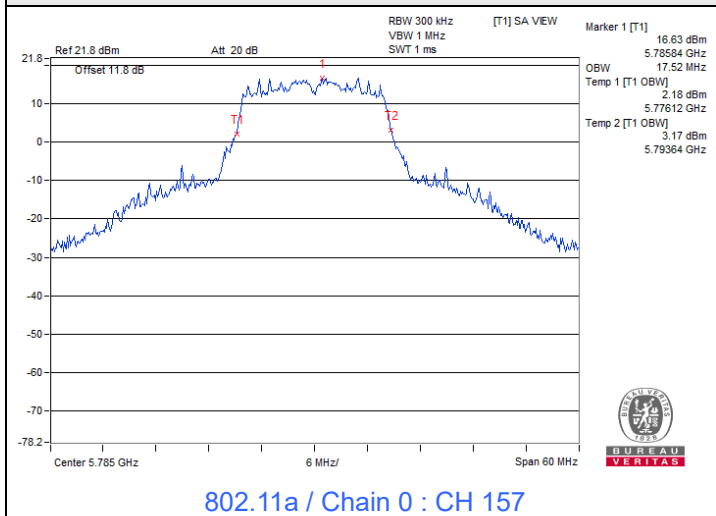
802.11ax (HE40)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
38	5190	37.92	37.68
46	5230	37.92	37.92
54	5270	37.92	37.92
62	5310	37.92	37.92
102	5510	37.68	37.68
110	5550	37.92	37.68
134	5670	37.68	37.68
142 (U-NII-2C)	5710	34.20	34.20
142 (U-NII-3)	5710	3.72	3.72
151	5755	37.92	38.16
159	5795	37.92	38.16

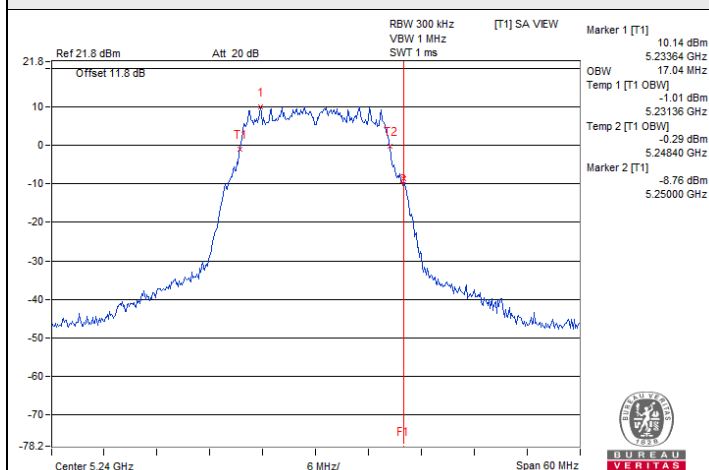
802.11ax (HE80)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
42	5210	77.28	77.28
58	5290	77.28	77.28
106	5530	77.28	77.28
122	5610	77.28	77.28
138 (U-NII-2C)	5690	73.88	73.88
138 (U-NII-3)	5690	3.40	3.40
155	5775	77.28	77.28

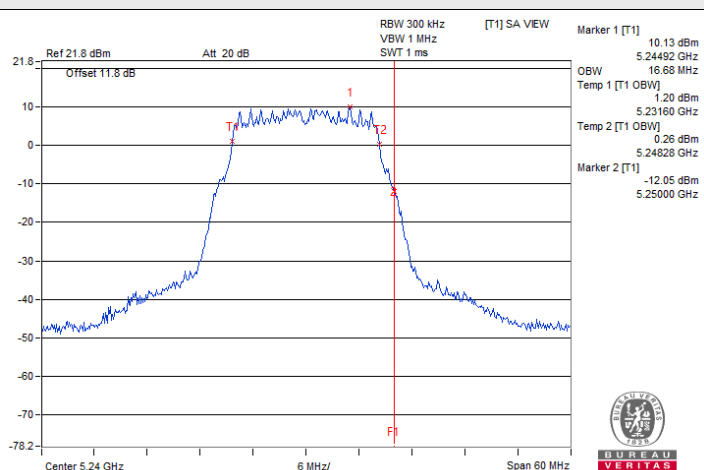
Spectrum Plot of Maximum Value



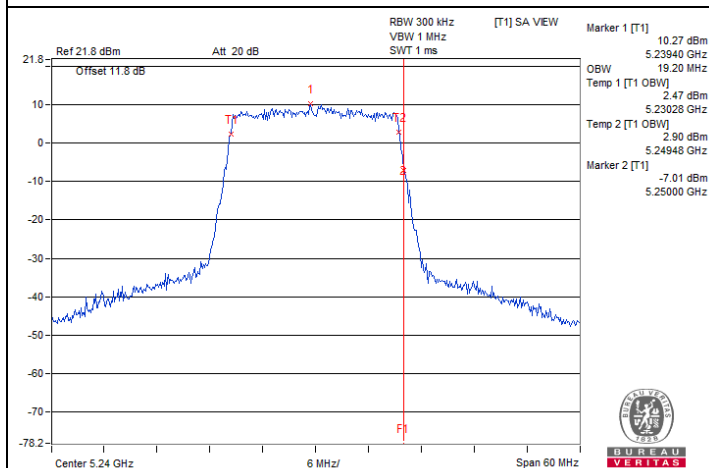
Spectrum Plot for nearby DFS band (DFS is required, if 99% OCP straddle into U-NII-2A)



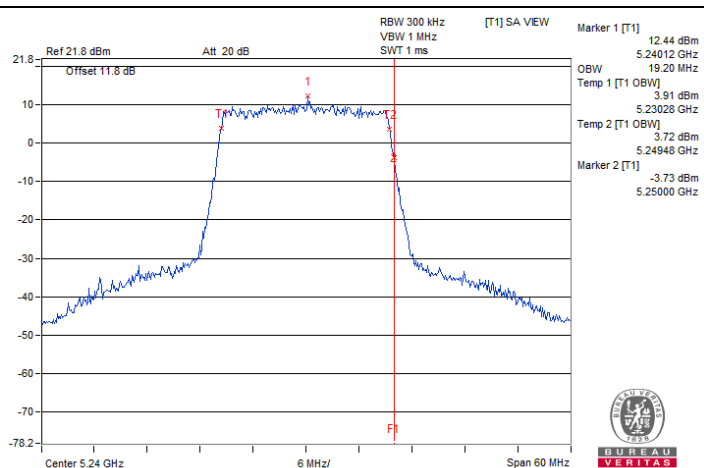
802.11a / Chain 0 : CH 48



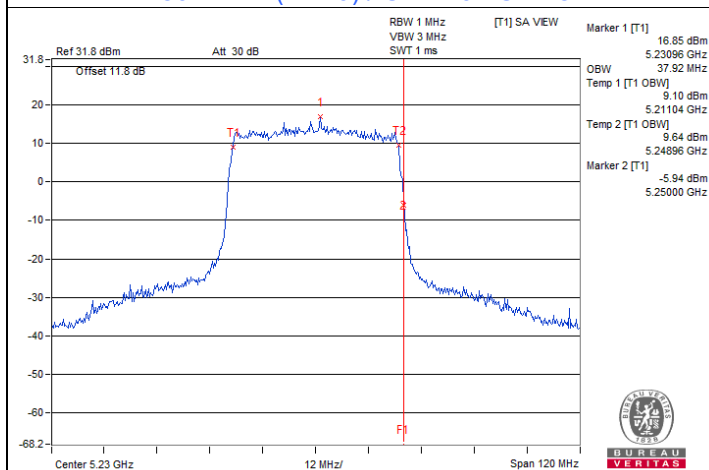
802.11a / Chain 1 : CH 48



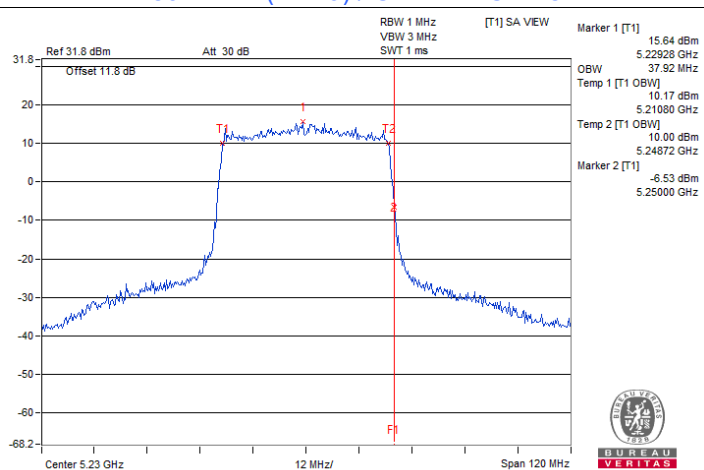
802.11ax (HE20) / Chain 0 : CH 48



802.11ax (HE20) / Chain 1 : CH 48

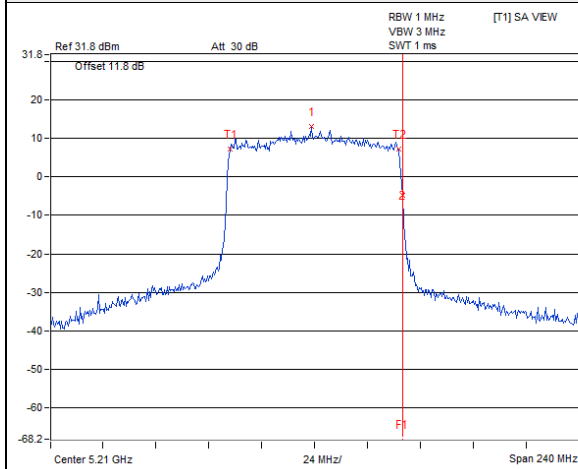


802.11ax (HE40) / Chain 0 : CH 46

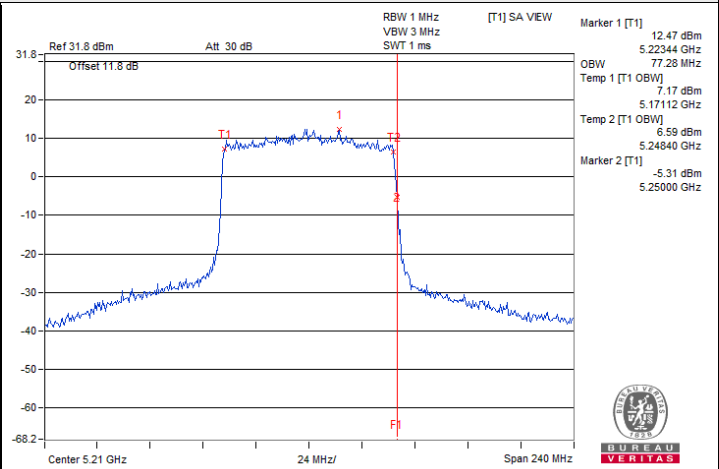


802.11ax (HE40) / Chain 1 : CH 46

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



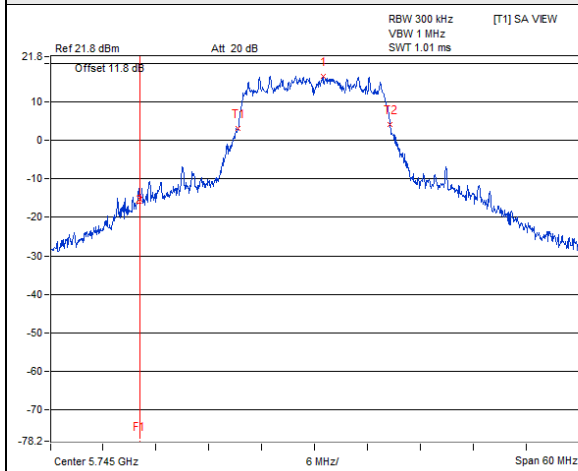
802.11ax (HE80) / Chain 0 : CH 42



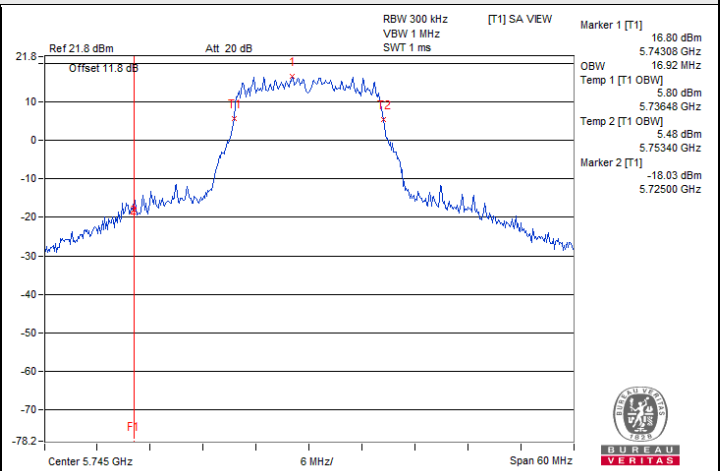
802.11ax (HE80) / Chain 1 : CH 42



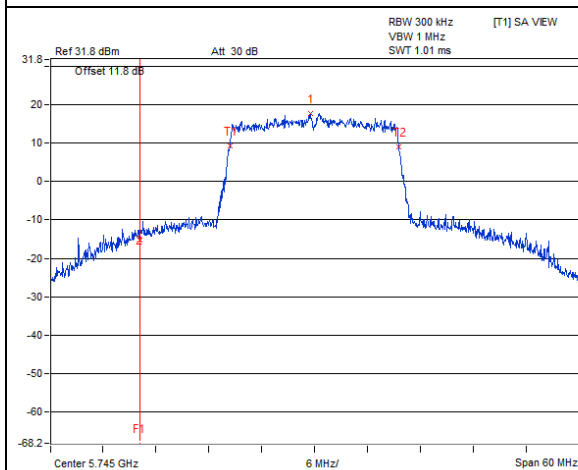
Spectrum Plot for nearby DFS band (DFS is required, if 99% OCP straddle into U-NII-2C)



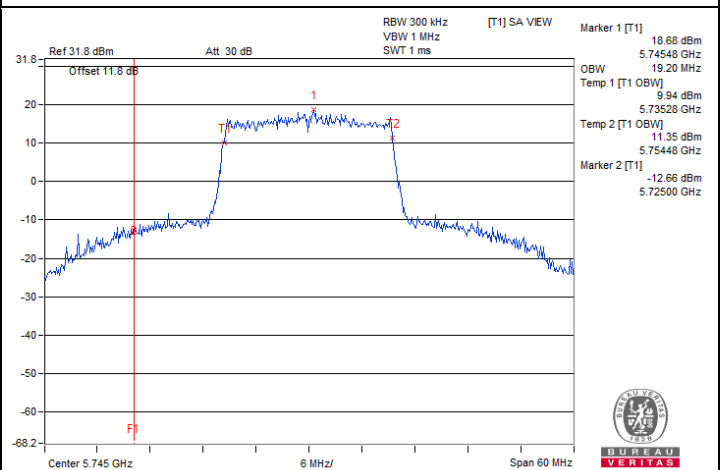
802.11a / Chain 0 : CH 149



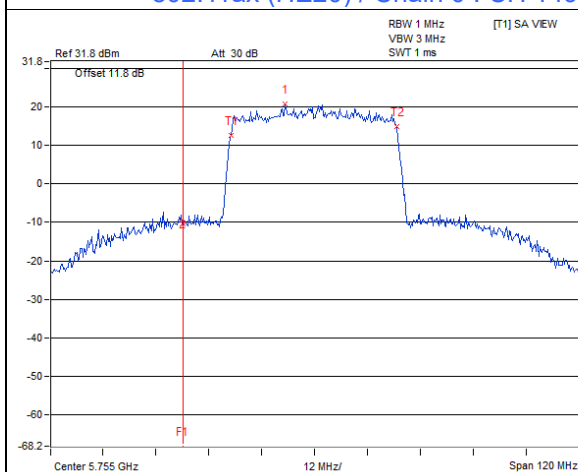
802.11a / Chain 1 : CH 149



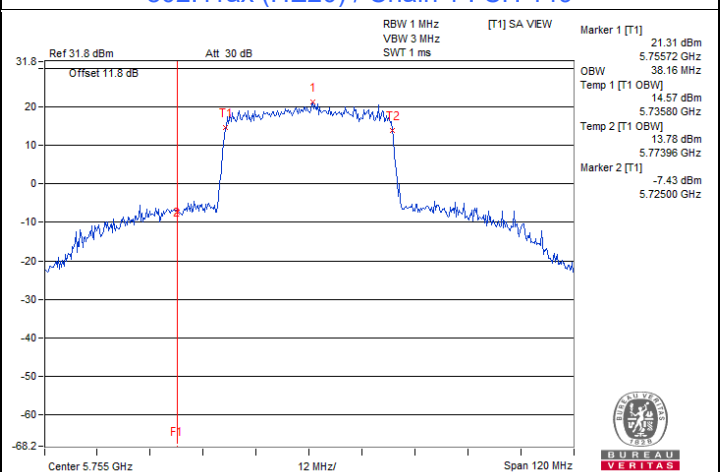
802.11ax (HE20) / Chain 0 : CH 149



802.11ax (HE20) / Chain 1 : CH 149

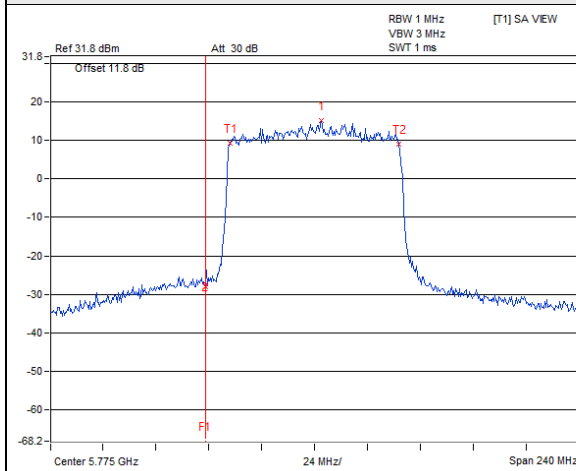


802.11ax (HE40) / Chain 0 : CH 151

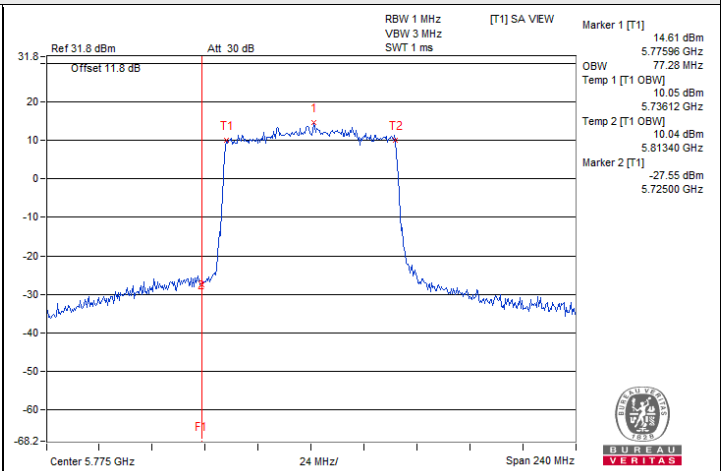


802.11ax (HE40) / Chain 1 : CH 151

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

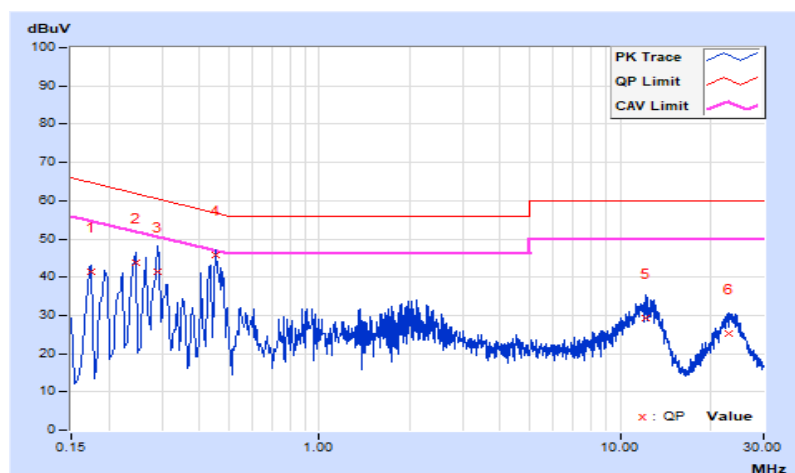
7.6 AC Power Conducted Emissions

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	20 °C, 63 % RH
Tested By	Edison Lee		

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	0.17384	9.69	31.82	19.39	41.51	29.08	64.77	54.77	-23.26	-25.69
2	0.24600	9.71	34.19	19.68	43.90	29.39	61.89	51.89	-17.99	-22.50
3	0.29000	9.71	31.54	17.49	41.25	27.20	60.52	50.52	-19.27	-23.32
4	0.45400	9.73	35.97	31.22	45.70	40.95	56.80	46.80	-11.10	-5.85
5	12.19800	10.00	19.16	11.73	29.16	21.73	60.00	50.00	-30.84	-28.27
6	22.83000	10.09	15.25	9.50	25.34	19.59	60.00	50.00	-34.66	-30.41

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

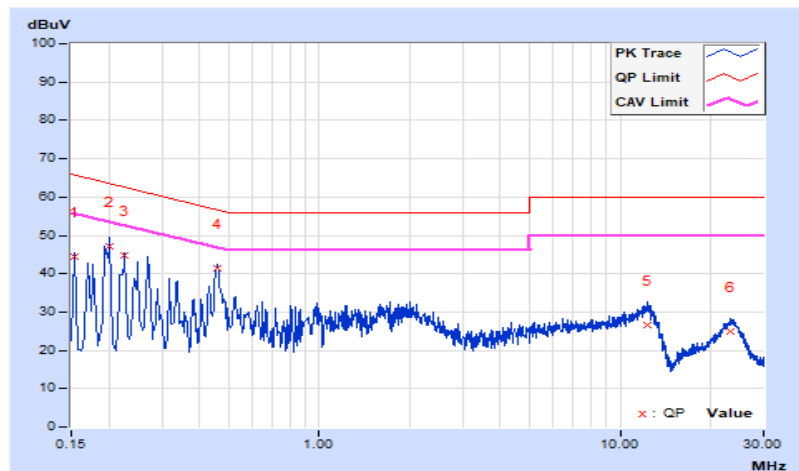


RF Mode	802.11ax (HE40)	Channel	CH 159 : 5795 MHz
Frequency Range	150 kHz ~ 30 MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	20 °C, 63 % RH
Tested By	Edison Lee		

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	0.15400	9.66	34.64	20.00	44.30	29.66	65.78	55.78	-21.48	-26.12
2	0.20200	9.66	37.46	18.52	47.12	28.18	63.53	53.53	-16.41	-25.35
3	0.22565	9.67	35.04	17.50	44.71	27.17	62.61	52.61	-17.90	-25.44
4	0.45800	9.74	31.54	27.68	41.28	37.42	56.73	46.73	-15.45	-9.31
5	12.35800	10.07	16.65	10.78	26.72	20.85	60.00	50.00	-33.28	-29.15
6	23.33000	10.31	14.55	9.94	24.86	20.25	60.00	50.00	-35.14	-29.75

Remarks:

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



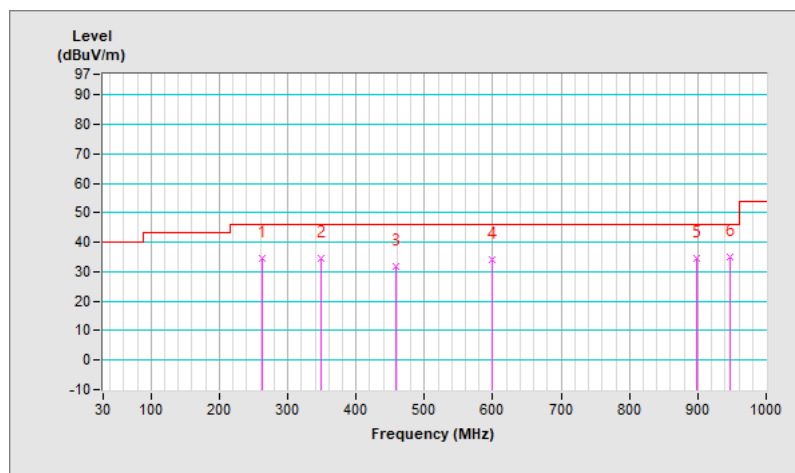
7.7 Unwanted Emissions below 1 GHz

RF Mode	802.11ax (HE40)	Channel	CH 159 : 5795 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	QP: RB=120kHz, DET=Quasi-Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	21 °C, 69 % RH
Tested By	Greg Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	262.80	34.5 QP	46.0	-11.5	1.25 H	47	48.0	-13.5
2	349.13	34.4 QP	46.0	-11.6	1.00 H	51	45.5	-11.1
3	457.77	31.9 QP	46.0	-14.1	1.50 H	95	39.8	-7.9
4	598.42	34.3 QP	46.0	-11.7	1.00 H	207	39.2	-4.9
5	898.15	34.4 QP	46.0	-11.6	1.00 H	224	35.0	-0.6
6	946.65	35.0 QP	46.0	-11.0	1.25 H	263	34.8	0.2

Remarks:

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

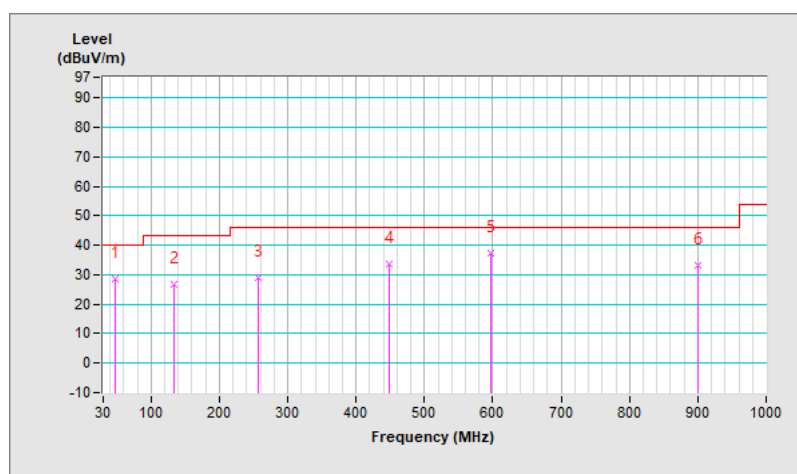


RF Mode	802.11ax (HE40)	Channel	CH 159 : 5795 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	QP: RB=120kHz, DET=Quasi-Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	21 °C, 69 % RH
Tested By	Greg Lin		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	48.43	28.7 QP	40.0	-11.3	1.00 V	320	41.6	-12.9
2	132.82	26.8 QP	43.5	-16.7	1.00 V	192	40.5	-13.7
3	256.98	29.2 QP	46.0	-16.8	1.25 V	307	42.9	-13.7
4	448.07	33.5 QP	46.0	-12.5	1.25 V	146	41.6	-8.1
5	596.48	37.2 QP	46.0	-8.8	1.50 V	178	42.2	-5.0
6	900.09	33.1 QP	46.0	-12.9	1.00 V	251	33.7	-0.6

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 of frequency range 30 MHz ~ 1 GHz.
5. The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.



7.8 Unwanted Emissions above 1 GHz

RF Mode	802.11a	Channel	CH 36 : 5180 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 68 % RH
Tested By	Greg Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	69.7 PK	74.0	-4.3	1.24 H	187	65.5	4.2
2	5150.00	52.8 AV	54.0	-1.2	1.24 H	187	48.6	4.2
3	*5180.00	120.1 PK			1.24 H	187	78.2	41.9
4	*5180.00	109.5 AV			1.24 H	187	67.6	41.9
5	#10360.00	56.2 PK	68.2	-12.0	1.58 H	179	45.4	10.8
6	15540.00	63.4 PK	74.0	-10.6	1.53 H	218	50.1	13.3
7	15540.00	51.1 AV	54.0	-2.9	1.53 H	218	37.8	13.3
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	68.1 PK	74.0	-5.9	1.57 V	291	63.9	4.2
2	5150.00	51.6 AV	54.0	-2.4	1.57 V	291	47.4	4.2
3	*5180.00	118.8 PK			1.57 V	291	76.9	41.9
4	*5180.00	108.6 AV			1.57 V	291	66.7	41.9
5	#10360.00	55.4 PK	68.2	-12.8	2.13 V	121	44.6	10.8
6	15540.00	62.1 PK	74.0	-11.9	1.73 V	264	48.8	13.3
7	15540.00	50.2 AV	54.0	-3.8	1.73 V	264	36.9	13.3

Remarks:

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

RF Mode	802.11a	Channel	CH 40 : 5200 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 68 % RH
Tested By	Edison Lee		

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	121.4 PK			1.60 H	191	79.5	41.9
2	*5200.00	112.2 AV			1.60 H	191	70.3	41.9
3	#10400.00	56.8 PK	68.2	-11.4	1.56 H	182	46.0	10.8
4	15600.00	66.9 PK	74.0	-7.1	1.53 H	214	53.8	13.1
5	15600.00	53.4 AV	54.0	-0.6	1.53 H	214	40.3	13.1
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5200.00	120.3 PK			1.55 V	301	78.4	41.9
2	*5200.00	110.8 AV			1.55 V	301	68.9	41.9
3	#10400.00	55.9 PK	68.2	-12.3	2.11 V	130	45.1	10.8
4	15600.00	65.6 PK	74.0	-8.4	1.63 V	255	52.5	13.1
5	15600.00	52.9 AV	54.0	-1.1	1.63 V	255	39.8	13.1

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, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 68 % RH
Tested By	Greg Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5240.00	119.6 PK			1.55 H	182	77.9	41.7
2	*5240.00	109.4 AV			1.55 H	182	67.7	41.7
3	5350.00	58.1 PK	74.0	-15.9	1.55 H	182	54.2	3.9
4	5350.00	45.5 AV	54.0	-8.5	1.55 H	182	41.6	3.9
5	#10480.00	57.2 PK	68.2	-11.0	1.69 H	174	46.1	11.1
6	15720.00	65.1 PK	74.0	-8.9	1.64 H	216	52.4	12.7
7	15720.00	53.0 AV	54.0	-1.0	1.64 H	216	40.3	12.7
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5240.00	118.6 PK			1.53 V	291	76.9	41.7
2	*5240.00	108.5 AV			1.53 V	291	66.8	41.7
3	5350.00	57.3 PK	74.0	-16.7	1.53 V	291	53.4	3.9
4	5350.00	44.7 AV	54.0	-9.3	1.53 V	291	40.8	3.9
5	#10480.00	56.3 PK	68.2	-11.9	2.08 V	126	45.2	11.1
6	15720.00	64.0 PK	74.0	-10.0	1.67 V	257	51.3	12.7
7	15720.00	52.0 AV	54.0	-2.0	1.67 V	257	39.3	12.7

Remarks:

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

RF Mode	802.11a	Channel	CH 52 : 5260 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 68 % RH
Tested By	Edison Lee		

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	59.2 PK	74.0	-14.8	2.03 H	315	55.0	4.2
2	5150.00	45.6 AV	54.0	-8.4	2.03 H	315	41.4	4.2
3	*5260.00	119.1 PK			2.03 H	315	77.5	41.6
4	*5260.00	108.9 AV			2.03 H	315	67.3	41.6
5	#10520.00	58.6 PK	68.2	-9.6	1.58 H	168	47.4	11.2

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	58.4 PK	74.0	-15.6	1.77 V	298	54.2	4.2
2	5150.00	45.2 AV	54.0	-8.8	1.77 V	298	41.0	4.2
3	*5260.00	118.3 PK			1.77 V	298	76.7	41.6
4	*5260.00	107.8 AV			1.77 V	298	66.2	41.6
5	#10520.00	56.1 PK	68.2	-12.1	2.21 V	138	44.9	11.2

Remarks:

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

RF Mode	802.11a	Channel	CH 60 : 5300 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 68 % RH
Tested By	Edison Lee		

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	119.1 PK			2.12 H	317	77.6	41.5
2	*5300.00	109.0 AV			2.12 H	317	67.5	41.5
3	10600.00	57.0 PK	74.0	-17.0	1.52 H	171	45.6	11.4
4	10600.00	45.0 AV	54.0	-9.0	1.52 H	171	33.6	11.4
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	118.5 PK			1.75 V	301	77.0	41.5
2	*5300.00	108.0 AV			1.75 V	301	66.5	41.5
3	10600.00	56.4 PK	74.0	-17.6	2.20 V	127	45.0	11.4
4	10600.00	44.5 AV	54.0	-9.5	2.20 V	127	33.1	11.4

Remarks:

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

RF Mode	802.11a	Channel	CH 64 : 5320 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 68 % RH
Tested By	Edison Lee		

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	118.9 PK			2.08 H	317	77.4	41.5
2	*5320.00	108.7 AV			2.08 H	317	67.2	41.5
3	5350.00	62.5 PK	74.0	-11.5	2.08 H	317	58.6	3.9
4	5350.00	49.9 AV	54.0	-4.1	2.08 H	317	46.0	3.9
5	10640.00	56.7 PK	74.0	-17.3	1.60 H	174	45.5	11.2
6	10640.00	44.2 AV	54.0	-9.8	1.60 H	174	33.0	11.2
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	117.2 PK			1.53 V	304	75.7	41.5
2	*5320.00	107.5 AV			1.53 V	304	66.0	41.5
3	5350.00	59.9 PK	74.0	-14.1	1.53 V	304	56.0	3.9
4	5350.00	47.2 AV	54.0	-6.8	1.53 V	304	43.3	3.9
5	10640.00	56.1 PK	74.0	-17.9	2.11 V	120	44.9	11.2
6	10640.00	43.7 AV	54.0	-10.3	2.11 V	120	32.5	11.2

Remarks:

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

RF Mode	802.11a	Channel	CH 100 : 5500 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	21 °C, 69 % RH
Tested By	Greg Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	62.8 PK	74.0	-11.2	2.12 H	314	58.7	4.1
2	5460.00	50.2 AV	54.0	-3.8	2.12 H	314	46.1	4.1
3	#5470.00	64.0 PK	68.2	-4.2	2.12 H	314	59.9	4.1
4	*5500.00	119.1 PK			2.12 H	314	77.2	41.9
5	*5500.00	109.0 AV			2.12 H	314	67.1	41.9
6	11000.00	57.7 PK	74.0	-16.3	1.62 H	176	46.4	11.3
7	11000.00	44.5 AV	54.0	-9.5	1.62 H	176	33.2	11.3
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	60.8 PK	74.0	-13.2	1.38 V	297	56.7	4.1
2	5460.00	48.7 AV	54.0	-5.3	1.38 V	297	44.6	4.1
3	#5470.00	62.2 PK	68.2	-6.0	1.38 V	297	58.1	4.1
4	*5500.00	118.2 PK			1.38 V	297	76.3	41.9
5	*5500.00	108.0 AV			1.38 V	297	66.1	41.9
6	11000.00	56.9 PK	74.0	-17.1	2.36 V	127	45.6	11.3
7	11000.00	44.2 AV	54.0	-9.8	2.36 V	127	32.9	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	802.11a	Channel	CH 116 : 5580 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	21 °C, 69 % RH
Tested By	Greg Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5580.00	119.8 PK			1.00 H	N/A	77.6	42.2
2	*5580.00	109.6 AV			1.00 H	N/A	67.4	42.2
3	11160.00	58.6 PK	74.0	-15.4	1.62 H	173	46.8	11.8
4	11160.00	45.2 AV	54.0	-8.8	1.62 H	173	33.4	11.8
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	118.6 PK			1.34 V	298	76.4	42.2
2	*5580.00	108.5 AV			1.34 V	298	66.3	42.2
3	11160.00	57.6 PK	74.0	-16.4	2.32 V	128	45.8	11.8
4	11160.00	44.8 AV	54.0	-9.2	2.32 V	128	33.0	11.8

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.

RF Mode	802.11a	Channel	CH 140 : 5700 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	21 °C, 69 % RH
Tested By	Greg Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5700.00	117.9 PK			1.85 H	320	74.9	43.0
2	*5700.00	107.7 AV			1.85 H	320	64.7	43.0
3	#5725.00	62.9 PK	68.2	-5.3	1.85 H	320	57.3	5.6
4	11400.00	59.0 PK	74.0	-15.0	1.57 H	183	46.5	12.5
5	11400.00	45.8 AV	54.0	-8.2	1.57 H	183	33.3	12.5
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	116.6 PK			1.42 V	303	73.6	43.0
2	*5700.00	106.5 AV			1.42 V	303	63.5	43.0
3	#5725.00	62.3 PK	68.2	-5.9	1.42 V	303	56.7	5.6
4	11400.00	58.2 PK	74.0	-15.8	2.36 V	124	45.7	12.5
5	11400.00	45.3 AV	54.0	-8.7	2.36 V	124	32.8	12.5

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 144 : 5720 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	21 °C, 69 % RH
Tested By	Greg Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5470.00	55.9 PK	68.2	-12.3	1.86 H	321	51.8	4.1
2	*5720.00	118.8 PK			1.86 H	321	75.6	43.2
3	*5720.00	108.6 AV			1.86 H	321	65.4	43.2
4	#5850.00	58.1 PK	68.2	-10.1	1.86 H	321	52.3	5.8
5	11440.00	59.2 PK	74.0	-14.8	1.54 H	189	46.8	12.4
6	11440.00	45.9 AV	54.0	-8.1	1.54 H	189	33.5	12.4
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	#5470.00	55.4 PK	68.2	-12.8	1.36 V	293	51.3	4.1
2	*5720.00	117.6 PK			1.36 V	293	74.4	43.2
3	*5720.00	107.4 AV			1.36 V	293	64.2	43.2
4	#5850.00	57.7 PK	68.2	-10.5	1.36 V	293	51.9	5.8
5	11440.00	58.2 PK	74.0	-15.8	2.29 V	125	45.8	12.4
6	11440.00	45.3 AV	54.0	-8.7	2.29 V	125	32.9	12.4

Remarks:

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

RF Mode	802.11a	Channel	CH 149 : 5745 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	21 °C, 69 % RH
Tested By	Greg Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5645.20	61.0 PK	68.2	-7.2	2.13 H	180	55.9	5.1
2	*5745.00	121.4 PK			2.13 H	180	78.1	43.3
3	*5745.00	111.4 AV			2.13 H	180	68.1	43.3
4	#5992.40	62.6 PK	68.2	-5.6	2.13 H	180	56.8	5.8
5	11490.00	58.9 PK	74.0	-15.1	1.73 H	192	46.7	12.2
6	11490.00	45.7 AV	54.0	-8.3	1.73 H	192	33.5	12.2
7	#17235.00	65.2 PK	68.2	-3.0	2.04 H	245	52.8	12.4
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	#5608.00	60.6 PK	68.2	-7.6	1.34 V	306	55.8	4.8
2	*5745.00	120.4 PK			1.34 V	306	77.1	43.3
3	*5745.00	110.3 AV			1.34 V	306	67.0	43.3
4	#5992.80	61.3 PK	68.2	-6.9	1.34 V	306	55.5	5.8
5	11490.00	58.0 PK	74.0	-16.0	2.43 V	141	45.8	12.2
6	11490.00	45.0 AV	54.0	-9.0	2.43 V	141	32.8	12.2
7	#17235.00	62.9 PK	68.2	-5.3	4.00 V	164	50.5	12.4

Remarks:

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

RF Mode	802.11a	Channel	CH 157 : 5785 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	21 °C, 69 % RH
Tested By	Greg Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5616.00	61.1 PK	68.2	-7.1	2.14 H	181	56.2	4.9
2	*5785.00	121.1 PK			2.14 H	181	77.7	43.4
3	*5785.00	111.0 AV			2.14 H	181	67.6	43.4
4	#5929.20	62.1 PK	68.2	-6.1	2.14 H	181	56.2	5.9
5	11570.00	58.6 PK	74.0	-15.4	1.78 H	186	46.8	11.8
6	11570.00	45.5 AV	54.0	-8.5	1.78 H	186	33.7	11.8
7	#17355.00	67.7 PK	68.2	-0.5	2.01 H	244	54.8	12.9
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	#5628.40	60.8 PK	68.2	-7.4	1.33 V	304	55.8	5.0
2	*5785.00	119.8 PK			1.33 V	304	76.4	43.4
3	*5785.00	109.8 AV			1.33 V	304	66.4	43.4
4	#5958.40	61.9 PK	68.2	-6.3	1.33 V	304	56.1	5.8
5	11570.00	57.7 PK	74.0	-16.3	2.41 V	137	45.9	11.8
6	11570.00	44.9 AV	54.0	-9.1	2.41 V	137	33.1	11.8
7	#17355.00	65.3 PK	68.2	-2.9	2.28 V	164	52.4	12.9

Remarks:

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

RF Mode	802.11a	Channel	CH 165 : 5825 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	21 °C, 69 % RH
Tested By	Greg Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5646.80	61.0 PK	68.2	-7.2	2.14 H	182	55.9	5.1
2	*5825.00	118.9 PK			2.14 H	182	75.5	43.4
3	*5825.00	108.8 AV			2.14 H	182	65.4	43.4
4	#5981.60	62.2 PK	68.2	-6.0	2.14 H	182	56.4	5.8
5	11650.00	58.9 PK	74.0	-15.1	1.77 H	192	47.2	11.7
6	11650.00	45.9 AV	54.0	-8.1	1.77 H	192	34.2	11.7
7	#17475.00	67.1 PK	68.2	-1.1	2.12 H	253	54.3	12.8
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	#5634.40	61.5 PK	68.2	-6.7	1.38 V	301	56.4	5.1
2	*5825.00	117.9 PK			1.38 V	301	74.5	43.4
3	*5825.00	107.7 AV			1.38 V	301	64.3	43.4
4	#5957.20	61.8 PK	68.2	-6.4	1.38 V	301	56.0	5.8
5	11650.00	57.7 PK	74.0	-16.3	2.53 V	124	46.0	11.7
6	11650.00	44.9 AV	54.0	-9.1	2.53 V	124	33.2	11.7
7	#17475.00	64.7 PK	68.2	-3.5	2.34 V	161	51.9	12.8

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 (HE20)	Channel	CH 36 : 5180 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 68 % RH
Tested By	Greg Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	67.7 PK	74.0	-6.3	1.23 H	181	63.5	4.2
2	5150.00	52.6 AV	54.0	-1.4	1.23 H	181	48.4	4.2
3	*5180.00	118.5 PK			1.23 H	181	76.6	41.9
4	*5180.00	106.1 AV			1.23 H	181	64.2	41.9
5	#10360.00	56.2 PK	68.2	-12.0	1.58 H	173	45.4	10.8
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	1.52 V	290	61.7	4.2
2	5150.00	51.8 AV	54.0	-2.2	1.52 V	290	47.6	4.2
3	*5180.00	117.2 PK			1.52 V	290	75.3	41.9
4	*5180.00	104.7 AV			1.52 V	290	62.8	41.9
5	#10360.00	55.2 PK	68.2	-13.0	2.09 V	118	44.4	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 (HE20)	Channel	CH 40 : 5200 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 68 % RH
Tested By	Edison Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	68.8 PK	74.0	-5.2	1.60 H	286	64.6	4.2
2	5150.00	52.7 AV	54.0	-1.3	1.60 H	286	48.5	4.2
3	*5200.00	123.9 PK			1.60 H	286	82.0	41.9
4	*5200.00	110.9 AV			1.60 H	286	69.0	41.9
5	#10400.00	56.7 PK	68.2	-11.5	1.59 H	178	45.9	10.8
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	68.2 PK	74.0	-5.8	1.59 V	293	64.0	4.2
2	5150.00	52.3 AV	54.0	-1.7	1.59 V	293	48.1	4.2
3	*5200.00	122.6 PK			1.59 V	293	80.7	41.9
4	*5200.00	109.5 AV			1.59 V	293	67.6	41.9
5	#10400.00	55.8 PK	68.2	-12.4	2.12 V	129	45.0	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 (HE20)	Channel	CH 48 : 5240 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 68 % RH
Tested By	Edison Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5240.00	119.7 PK			1.69 H	282	78.0	41.7
2	*5240.00	108.9 AV			1.69 H	282	67.2	41.7
3	5350.00	57.9 PK	74.0	-16.1	1.69 H	282	54.0	3.9
4	5350.00	45.7 AV	54.0	-8.3	1.69 H	282	41.8	3.9
5	#10480.00	56.4 PK	68.2	-11.8	1.60 H	161	45.3	11.1

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5240.00	119.1 PK			1.69 V	287	77.4	41.7
2	*5240.00	107.8 AV			1.69 V	287	66.1	41.7
3	5350.00	57.9 PK	74.0	-16.1	1.69 V	287	54.0	3.9
4	5350.00	45.4 AV	54.0	-8.6	1.69 V	287	41.5	3.9
5	#10480.00	55.9 PK	68.2	-12.3	2.11 V	132	44.8	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 52 : 5260 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 68 % RH
Tested By	Edison Lee		

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	58.5 PK	74.0	-15.5	2.05 H	319	54.3	4.2
2	5150.00	45.7 AV	54.0	-8.3	2.05 H	319	41.5	4.2
3	*5260.00	118.7 PK			2.05 H	319	77.1	41.6
4	*5260.00	107.8 AV			2.05 H	319	66.2	41.6
5	#10520.00	56.5 PK	68.2	-11.7	1.57 H	168	45.3	11.2

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	58.0 PK	74.0	-16.0	1.65 V	293	53.8	4.2
2	5150.00	44.5 AV	54.0	-9.5	1.65 V	293	40.3	4.2
3	*5260.00	118.1 PK			1.65 V	293	76.5	41.6
4	*5260.00	106.9 AV			1.65 V	283	65.3	41.6
5	#10520.00	55.9 PK	68.2	-12.3	2.07 V	131	44.7	11.2

Remarks:

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

RF Mode	802.11ax (HE20)	Channel	CH 60 : 5300 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 68 % RH
Tested By	Edison Lee		

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	119.0 PK			2.00 H	312	77.5	41.5
2	*5300.00	108.0 AV			2.00 H	312	66.5	41.5
3	10600.00	57.4 PK	74.0	-16.6	1.56 H	177	46.0	11.4
4	10600.00	45.0 AV	54.0	-9.0	1.56 H	177	33.6	11.4
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	118.2 PK			1.56 V	308	76.7	41.5
2	*5300.00	107.1 AV			1.56 V	308	65.6	41.5
3	10600.00	56.4 PK	74.0	-17.6	2.11 V	131	45.0	11.4
4	10600.00	44.7 AV	54.0	-9.3	2.11 V	131	33.3	11.4

Remarks:

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

RF Mode	802.11ax (HE20)	Channel	CH 64 : 5320 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 68 % RH
Tested By	Edison Lee		

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	119.1 PK			1.94 H	318	77.6	41.5
2	*5320.00	107.1 AV			1.94 H	318	65.6	41.5
3	5350.00	67.9 PK	74.0	-6.1	1.94 H	318	64.0	3.9
4	5350.00	51.5 AV	54.0	-2.5	1.94 H	318	47.6	3.9
5	10640.00	56.7 PK	74.0	-17.3	1.56 H	162	45.5	11.2
6	10640.00	44.7 AV	54.0	-9.3	1.56 H	162	33.5	11.2
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5320.00	116.7 PK			1.57 V	297	75.2	41.5
2	*5320.00	104.8 AV			1.57 V	297	63.3	41.5
3	5350.00	68.4 PK	74.0	-5.6	1.57 V	297	64.5	3.9
4	5350.00	50.9 AV	54.0	-3.1	1.57 V	297	47.0	3.9
5	10640.00	56.4 PK	74.0	-17.6	2.01 V	131	45.2	11.2
6	10640.00	44.1 AV	54.0	-9.9	2.01 V	131	32.9	11.2

Remarks:

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

RF Mode	802.11ax (HE20)	Channel	CH 100 : 5500 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	21 °C, 69 % RH
Tested By	Greg Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	63.3 PK	74.0	-10.7	1.91 H	316	59.2	4.1
2	5460.00	48.0 AV	54.0	-6.0	1.91 H	316	43.9	4.1
3	#5470.00	66.6 PK	68.2	-1.6	1.91 H	316	62.5	4.1
4	*5500.00	119.4 PK			1.91 H	316	77.5	41.9
5	*5500.00	106.5 AV			1.91 H	316	64.6	41.9
6	11000.00	57.9 PK	74.0	-16.1	1.56 H	187	46.6	11.3
7	11000.00	44.7 AV	54.0	-9.3	1.56 H	187	33.4	11.3
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	62.5 PK	74.0	-11.5	1.39 V	296	58.4	4.1
2	5460.00	47.4 AV	54.0	-6.6	1.39 V	296	43.3	4.1
3	#5470.00	65.7 PK	68.2	-2.5	1.39 V	296	61.6	4.1
4	*5500.00	118.2 PK			1.39 V	296	76.3	41.9
5	*5500.00	105.3 AV			1.39 V	296	63.4	41.9
6	11000.00	57.0 PK	74.0	-17.0	2.24 V	136	45.7	11.3
7	11000.00	44.1 AV	54.0	-9.9	2.24 V	136	32.8	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 (HE20)	Channel	CH 116 : 5580 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	21 °C, 69 % RH
Tested By	Greg Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5580.00	119.9 PK			2.02 H	319	77.7	42.2
2	*5580.00	107.0 AV			2.02 H	319	64.8	42.2
3	11160.00	58.7 PK	74.0	-15.3	1.55 H	184	46.9	11.8
4	11160.00	45.4 AV	54.0	-8.6	1.55 H	184	33.6	11.8
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	118.5 PK			1.33 V	298	76.3	42.2
2	*5580.00	105.7 AV			1.33 V	298	63.5	42.2
3	11160.00	57.6 PK	74.0	-16.4	2.37 V	135	45.8	11.8
4	11160.00	44.7 AV	54.0	-9.3	2.37 V	135	32.9	11.8

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.

RF Mode	802.11ax (HE20)	Channel	CH 140 : 5700 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 68 % RH
Tested By	Greg Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5700.00	117.6 PK			1.83 H	315	74.6	43.0
2	*5700.00	104.6 AV			1.83 H	315	61.6	43.0
3	#5725.00	66.4 PK	68.2	-1.8	1.83 H	315	60.8	5.6
4	11400.00	59.1 PK	74.0	-14.9	1.59 H	187	46.6	12.5
5	11400.00	45.9 AV	54.0	-8.1	1.59 H	187	33.4	12.5
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	116.6 PK			1.39 V	306	73.6	43.0
2	*5700.00	103.7 AV			1.39 V	306	60.7	43.0
3	#5725.00	65.3 PK	68.2	-2.9	1.39 V	306	59.7	5.6
4	11400.00	58.1 PK	74.0	-15.9	2.43 V	141	45.6	12.5
5	11400.00	45.1 AV	54.0	-8.9	2.43 V	141	32.6	12.5

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 144 : 5720 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	21 °C, 69 % RH
Tested By	Greg Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5470.00	56.1 PK	68.2	-12.1	1.70 H	320	52.0	4.1
2	*5720.00	118.5 PK			1.70 H	320	75.3	43.2
3	*5720.00	105.3 AV			1.70 H	320	62.1	43.2
4	#5850.00	57.9 PK	68.2	-10.3	1.70 H	320	52.1	5.8
5	11440.00	59.2 PK	74.0	-14.8	1.57 H	186	46.8	12.4
6	11440.00	46.0 AV	54.0	-8.0	1.57 H	186	33.6	12.4
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	#5470.00	55.6 PK	68.2	-12.6	1.32 V	302	51.5	4.1
2	*5720.00	117.3 PK			1.32 V	302	74.1	43.2
3	*5720.00	104.2 AV			1.32 V	302	61.0	43.2
4	#5850.00	57.4 PK	68.2	-10.8	1.32 V	302	51.6	5.8
5	11440.00	58.0 PK	74.0	-16.0	2.29 V	136	45.6	12.4
6	11440.00	45.2 AV	54.0	-8.8	2.29 V	136	32.8	12.4

Remarks:

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

RF Mode	802.11ax (HE20)	Channel	CH 149 : 5745 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	21 °C, 69 % RH
Tested By	Greg Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5612.00	61.7 PK	68.2	-6.5	2.23 H	287	56.8	4.9
2	*5745.00	121.2 PK			2.23 H	287	77.9	43.3
3	*5745.00	109.0 AV			2.23 H	287	65.7	43.3
4	#5992.40	62.8 PK	68.2	-5.4	2.23 H	287	57.0	5.8
5	11490.00	59.5 PK	74.0	-14.5	1.72 H	198	47.3	12.2
6	11490.00	46.5 AV	54.0	-7.5	1.72 H	198	34.3	12.2
7	#17235.00	64.9 PK	68.2	-3.3	2.01 H	246	52.5	12.4
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	#5637.60	61.1 PK	68.2	-7.1	1.36 V	298	56.0	5.1
2	*5745.00	120.1 PK			1.36 V	298	76.8	43.3
3	*5745.00	107.8 AV			1.36 V	298	64.5	43.3
4	#5948.80	61.7 PK	68.2	-6.5	1.36 V	298	55.9	5.8
5	11490.00	58.3 PK	74.0	-15.7	2.44 V	135	46.1	12.2
6	11490.00	45.2 AV	54.0	-8.8	2.44 V	135	33.0	12.2
7	#17235.00	62.8 PK	68.2	-5.4	2.29 V	164	50.4	12.4

Remarks:

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

RF Mode	802.11ax (HE20)	Channel	CH 157 : 5785 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	21 °C, 69 % RH
Tested By	Greg Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5625.60	62.2 PK	68.2	-6.0	2.23 H	289	57.2	5.0
2	*5785.00	120.5 PK			2.23 H	289	77.1	43.4
3	*5785.00	108.2 AV			2.23 H	289	64.8	43.4
4	#5958.80	62.2 PK	68.2	-6.0	2.23 H	289	56.4	5.8
5	11570.00	59.3 PK	74.0	-14.7	1.71 H	187	47.5	11.8
6	11570.00	46.2 AV	54.0	-7.8	1.71 H	187	34.4	11.8
7	#17355.00	67.5 PK	68.2	-0.7	2.01 H	245	54.6	12.9
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	#5645.60	60.9 PK	68.2	-7.3	1.31 V	293	55.8	5.1
2	*5785.00	119.4 PK			1.31 V	293	76.0	43.4
3	*5785.00	107.0 AV			1.31 V	293	63.6	43.4
4	#5942.40	61.6 PK	68.2	-6.6	1.31 V	293	55.8	5.8
5	11570.00	58.1 PK	74.0	-15.9	2.42 V	133	46.3	11.8
6	11570.00	45.1 AV	54.0	-8.9	2.42 V	133	33.3	11.8
7	#17355.00	65.2 PK	68.2	-3.0	2.28 V	169	52.3	12.9

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 165 : 5825 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	21 °C, 69 % RH
Tested By	Greg Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5629.20	61.2 PK	68.2	-7.0	2.22 H	286	56.2	5.0
2	*5825.00	118.8 PK			2.22 H	286	75.4	43.4
3	*5825.00	106.6 AV			2.22 H	286	63.2	43.4
4	#5963.60	62.5 PK	68.2	-5.7	2.22 H	286	56.7	5.8
5	11650.00	59.1 PK	74.0	-14.9	1.68 H	191	47.4	11.7
6	11650.00	46.0 AV	54.0	-8.0	1.68 H	191	34.3	11.7
7	#17475.00	67.4 PK	68.2	-0.8	2.02 H	247	54.6	12.8
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	#5641.60	60.3 PK	68.2	-7.9	1.32 V	293	55.2	5.1
2	*5825.00	117.6 PK			1.32 V	293	74.2	43.4
3	*5825.00	105.5 AV			1.32 V	293	62.1	43.4
4	#5958.00	61.8 PK	68.2	-6.4	1.32 V	293	56.0	5.8
5	11650.00	58.0 PK	74.0	-16.0	2.35 V	131	46.3	11.7
6	11650.00	45.0 AV	54.0	-9.0	2.35 V	131	33.3	11.7
7	#17475.00	65.2 PK	68.2	-3.0	2.31 V	162	52.4	12.8

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 (HE40)	Channel	CH 38 : 5190 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 68 % RH
Tested By	Edison Lee		

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	66.2 PK	74.0	-7.8	1.98 H	321	62.0	4.2
2	5150.00	53.2 AV	54.0	-0.8	1.98 H	321	49.0	4.2
3	*5190.00	113.6 PK			1.98 H	321	71.8	41.8
4	*5190.00	103.8 AV			1.98 H	321	62.0	41.8
5	#10380.00	56.3 PK	68.2	-11.9	1.63 H	170	45.5	10.8
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	67.7 PK	74.0	-6.3	1.70 V	300	63.5	4.2
2	5150.00	52.2 AV	54.0	-1.8	1.70 V	300	48.0	4.2
3	*5190.00	113.0 PK			1.70 V	300	71.2	41.8
4	*5190.00	101.8 AV			1.70 V	300	60.0	41.8
5	#10380.00	55.2 PK	68.2	-13.0	1.96 V	120	44.4	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 (HE40)	Channel	CH 46 : 5230 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 68 % RH
Tested By	Edison Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	67.4 PK	74.0	-6.6	2.06 H	294	63.2	4.2
2	5150.00	52.6 AV	54.0	-1.4	2.06 H	294	48.4	4.2
3	*5230.00	119.0 PK			2.06 H	294	77.2	41.8
4	*5230.00	107.2 AV			2.06 H	294	65.4	41.8
5	5350.00	58.9 PK	74.0	-15.1	2.06 H	294	55.0	3.9
6	5350.00	46.5 AV	54.0	-7.5	2.06 H	294	42.6	3.9
7	#10460.00	56.4 PK	68.2	-11.8	1.60 H	171	45.3	11.1
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	66.7 PK	74.0	-7.3	1.70 V	295	62.5	4.2
2	5150.00	51.5 AV	54.0	-2.5	1.70 V	295	47.3	4.2
3	*5230.00	118.0 PK			1.70 V	295	76.2	41.8
4	*5230.00	105.9 AV			1.70 V	295	64.1	41.8
5	5350.00	57.4 PK	74.0	-16.6	1.70 V	295	53.5	3.9
6	5350.00	45.7 AV	54.0	-8.3	1.70 V	295	41.8	3.9
7	#10460.00	55.4 PK	68.2	-12.8	2.20 V	121	44.3	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 (HE40)	Channel	CH 54 : 5270 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 68 % RH
Tested By	Edison Lee		

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	58.7 PK	74.0	-15.3	2.07 H	319	54.5	4.2
2	5150.00	45.2 AV	54.0	-8.8	2.07 H	319	41.0	4.2
3	*5270.00	117.1 PK			2.07 H	319	75.5	41.6
4	*5270.00	105.4 AV			2.07 H	319	63.8	41.6
5	#10540.00	56.4 PK	68.2	-11.8	1.50 H	172	45.1	11.3
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	56.9 PK	74.0	-17.1	1.59 V	304	52.7	4.2
2	5150.00	44.3 AV	54.0	-9.7	1.59 V	304	40.1	4.2
3	*5270.00	116.1 PK			1.59 V	304	74.5	41.6
4	*5270.00	103.8 AV			1.59 V	304	62.2	41.6
5	#10540.00	55.9 PK	68.2	-12.3	2.12 V	122	44.6	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.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	802.11ax (HE40)	Channel	CH 62 : 5310 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 68 % RH
Tested By	Edison Lee		

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	115.6 PK			2.22 H	310	74.1	41.5
2	*5310.00	104.5 AV			2.22 H	310	63.0	41.5
3	5350.00	70.9 PK	74.0	-3.1	2.22 H	310	67.0	3.9
4	5350.00	52.9 AV	54.0	-1.1	2.22 H	310	49.0	3.9
5	10620.00	56.4 PK	74.0	-17.6	1.60 H	181	45.2	11.2
6	10620.00	44.7 AV	54.0	-9.3	1.60 H	181	33.5	11.2
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	115.0 PK			1.67 V	295	73.5	41.5
2	*5310.00	103.4 AV			1.67 V	295	61.9	41.5
3	5350.00	68.4 PK	74.0	-5.6	1.67 V	295	64.5	3.9
4	5350.00	52.0 AV	54.0	-2.0	1.67 V	295	48.1	3.9
5	10620.00	56.2 PK	74.0	-17.8	2.00 V	132	45.0	11.2
6	10620.00	44.2 AV	54.0	-9.8	2.00 V	132	33.0	11.2

Remarks:

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

RF Mode	802.11ax (HE40)	Channel	CH 102 : 5510 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	21 °C, 69 % RH
Tested By	Greg Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	62.1 PK	74.0	-11.9	2.05 H	311	58.0	4.1
2	5460.00	48.5 AV	54.0	-5.5	2.05 H	311	44.4	4.1
3	#5470.00	67.5 PK	68.2	-0.7	2.05 H	311	63.4	4.1
4	*5510.00	115.2 PK			2.05 H	311	73.2	42.0
5	*5510.00	102.0 AV			2.05 H	311	60.0	42.0
6	11020.00	57.7 PK	74.0	-16.3	1.55 H	186	46.3	11.4
7	11020.00	44.7 AV	54.0	-9.3	1.55 H	186	33.3	11.4
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	61.5 PK	74.0	-12.5	1.27 V	302	57.4	4.1
2	5460.00	48.1 AV	54.0	-5.9	1.27 V	302	44.0	4.1
3	#5470.00	66.1 PK	68.2	-2.1	1.27 V	302	62.0	4.1
4	*5510.00	114.0 PK			1.27 V	302	72.0	42.0
5	*5510.00	101.0 AV			1.27 V	302	59.0	42.0
6	11020.00	56.7 PK	74.0	-17.3	2.22 V	136	45.3	11.4
7	11020.00	44.1 AV	54.0	-9.9	2.22 V	130	32.7	11.4

Remarks:

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

RF Mode	802.11ax (HE40)	Channel	CH 110 : 5550 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	21 °C, 69 % RH
Tested By	Greg Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5550.00	116.9 PK			2.11 H	319	74.8	42.1
2	*5550.00	103.8 AV			2.11 H	319	61.7	42.1
3	11100.00	58.2 PK	74.0	-15.8	1.53 H	178	46.6	11.6
4	11100.00	45.1 AV	54.0	-8.9	1.53 H	178	33.5	11.6
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	*5550.00	115.7 PK			1.31 V	299	73.6	42.1
2	*5550.00	102.6 AV			1.31 V	299	60.5	42.1
3	11100.00	57.0 PK	74.0	-17.0	2.26 V	139	45.4	11.6
4	11100.00	44.4 AV	54.0	-9.6	2.26 V	139	32.8	11.6

Remarks:

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

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, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	21 °C, 69 % RH
Tested By	Greg Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5670.00	116.5 PK			2.14 H	287	73.6	42.9
2	*5670.00	103.7 AV			2.14 H	287	60.8	42.9
3	#5725.00	64.9 PK	68.2	-3.3	2.14 H	287	59.3	5.6
4	11340.00	58.6 PK	74.0	-15.4	1.57 H	180	46.3	12.3
5	11340.00	45.5 AV	54.0	-8.5	1.57 H	180	33.2	12.3
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	115.5 PK			1.37 V	291	72.6	42.9
2	*5670.00	102.6 AV			1.37 V	291	59.7	42.9
3	#5725.00	64.0 PK	68.2	-4.2	1.37 V	291	58.4	5.6
4	11340.00	57.6 PK	74.0	-16.4	2.29 V	137	45.3	12.3
5	11340.00	44.9 AV	54.0	-9.1	2.29 V	137	32.6	12.3

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 (HE40)	Channel	CH 142 : 5710 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	21 °C, 69 % RH
Tested By	Greg Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5470.00	56.5 PK	68.2	-11.7	2.12 H	287	52.4	4.1
2	*5710.00	116.4 PK			2.12 H	287	73.3	43.1
3	*5710.00	103.5 AV			2.12 H	287	60.4	43.1
4	#5850.00	59.2 PK	68.2	-9.0	2.12 H	287	53.4	5.8
5	11420.00	58.9 PK	74.0	-15.1	1.51 H	186	46.4	12.5
6	11420.00	45.8 AV	54.0	-8.2	1.51 H	186	33.3	12.5
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	#5470.00	55.9 PK	68.2	-12.3	1.34 V	295	51.8	4.1
2	*5710.00	115.5 PK			1.34 V	295	72.4	43.1
3	*5710.00	102.5 AV			1.34 V	295	59.4	43.1
4	#5850.00	58.6 PK	68.2	-9.6	1.34 V	295	52.8	5.8
5	11420.00	58.0 PK	74.0	-16.0	2.27 V	138	45.5	12.5
6	11420.00	45.2 AV	54.0	-8.8	2.27 V	138	32.7	12.5

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 151 : 5755 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	21 °C, 69 % RH
Tested By	Greg Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5650.40	67.5 PK	68.4	-0.9	2.24 H	282	62.3	5.2
2	*5755.00	118.1 PK			2.24 H	282	74.8	43.3
3	*5755.00	105.9 AV			2.24 H	282	62.6	43.3
4	#5986.80	62.1 PK	68.2	-6.1	2.24 H	282	56.3	5.8
5	11510.00	58.9 PK	74.0	-15.1	1.70 H	185	46.8	12.1
6	11510.00	45.9 AV	54.0	-8.1	1.70 H	185	33.8	12.1
7	#17265.00	64.2 PK	68.2	-4.0	2.08 H	246	51.8	12.4
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	#5647.60	66.0 PK	68.2	-2.2	1.38 V	293	60.9	5.1
2	*5755.00	117.0 PK			1.38 V	293	73.7	43.3
3	*5755.00	104.8 AV			1.38 V	293	61.5	43.3
4	#5978.80	61.3 PK	68.2	-6.9	1.38 V	293	55.5	5.8
5	11510.00	57.7 PK	74.0	-16.3	2.36 V	132	45.6	12.1
6	11510.00	45.0 AV	54.0	-9.0	2.36 V	132	32.9	12.1
7	#17265.00	62.3 PK	68.2	-5.9	2.34 V	166	49.9	12.4

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, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	21 °C, 69 % RH
Tested By	Greg Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5636.80	61.3 PK	68.2	-6.9	2.04 H	286	56.2	5.1
2	*5795.00	119.2 PK			2.04 H	286	75.8	43.4
3	*5795.00	107.0 AV			2.04 H	286	63.6	43.4
4	#5938.40	63.7 PK	68.2	-4.5	2.04 H	286	57.9	5.8
5	11590.00	58.6 PK	74.0	-15.4	1.67 H	188	46.9	11.7
6	11590.00	45.5 AV	54.0	-8.5	1.67 H	188	33.8	11.7
7	#17385.00	67.6 PK	68.2	-0.6	2.06 H	162	54.5	13.1
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	#5612.80	61.0 PK	68.2	-7.2	1.35 V	291	56.1	4.9
2	*5795.00	118.1 PK			1.35 V	291	74.7	43.4
3	*5795.00	105.8 AV			1.35 V	291	62.4	43.4
4	#5940.00	62.9 PK	68.2	-5.3	1.35 V	291	57.1	5.8
5	11590.00	57.8 PK	74.0	-16.2	2.49 V	130	46.1	11.7
6	11590.00	44.7 AV	54.0	-9.3	2.49 V	130	33.0	11.7
7	#17385.00	65.5 PK	68.2	-2.7	2.23 V	159	52.4	13.1

Remarks:

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

RF Mode	802.11ax (HE80)	Channel	CH 42 : 5210 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 68 % RH
Tested By	Edison Lee		

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	66.7 PK	74.0	-7.3	2.01 H	311	62.5	4.2
2	5150.00	53.2 AV	54.0	-0.8	2.01 H	311	49.0	4.2
3	*5210.00	111.7 PK			2.01 H	311	69.8	41.9
4	*5210.00	100.3 AV			2.01 H	311	58.4	41.9
5	#10420.00	55.9 PK	68.2	-12.3	1.60 H	171	45.0	10.9
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	65.7 PK	74.0	-8.3	1.73 V	296	61.5	4.2
2	5150.00	52.5 AV	54.0	-1.5	1.73 V	296	48.3	4.2
3	*5210.00	110.9 PK			1.73 V	296	69.0	41.9
4	*5210.00	98.7 AV			1.73 V	296	56.8	41.9
5	#10420.00	55.5 PK	68.2	-12.7	2.03 V	141	44.6	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 (HE80)	Channel	CH 58 : 5290 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 68 % RH
Tested By	Edison Lee		

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	114.9 PK			2.19 H	317	73.4	41.5
2	*5290.00	101.9 AV			2.19 H	317	60.4	41.5
3	5350.00	70.9 PK	74.0	-3.1	2.19 H	317	67.0	3.9
4	5350.00	52.9 AV	54.0	-1.1	2.19 H	317	49.0	3.9
5	#10580.00	56.7 PK	68.2	-11.5	1.58 H	166	45.4	11.3

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	114.1 PK			1.68 V	295	72.6	41.5
2	*5290.00	100.4 AV			1.68 V	295	58.9	41.5
3	5350.00	65.2 PK	74.0	-8.8	1.68 V	295	61.3	3.9
4	5350.00	51.1 AV	54.0	-2.9	1.68 V	295	47.2	3.9
5	#10580.00	56.1 PK	68.2	-12.1	2.01 V	126	44.8	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, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	21 °C, 69 % RH
Tested By	Greg Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	64.9 PK	74.0	-9.1	2.22 H	287	60.8	4.1
2	5460.00	51.9 AV	54.0	-2.1	2.22 H	287	47.8	4.1
3	#5470.00	67.4 PK	68.2	-0.8	2.22 H	287	63.3	4.1
4	*5530.00	111.7 PK			2.22 H	287	69.7	42.0
5	*5530.00	98.9 AV			2.22 H	287	56.9	42.0
6	11060.00	57.8 PK	74.0	-16.2	1.51 H	174	46.3	11.5
7	11060.00	44.7 AV	54.0	-9.3	1.51 H	174	33.2	11.5
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	64.3 PK	74.0	-9.7	1.36 V	292	60.2	4.1
2	5460.00	51.2 AV	54.0	-2.8	1.36 V	292	47.1	4.1
3	#5470.00	65.7 PK	68.2	-2.5	1.36 V	292	61.6	4.1
4	*5530.00	110.8 PK			1.36 V	292	68.8	42.0
5	*5530.00	97.8 AV			1.36 V	292	55.8	42.0
6	11060.00	56.7 PK	74.0	-17.3	2.26 V	131	45.2	11.5
7	11060.00	44.1 AV	54.0	-9.9	2.26 V	131	32.6	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.
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, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	21 °C, 69 % RH
Tested By	Greg Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	57.7 PK	74.0	-16.3	2.27 H	288	53.6	4.1
2	5460.00	44.9 AV	54.0	-9.1	2.27 H	288	40.8	4.1
3	#5470.00	58.4 PK	68.2	-9.8	2.27 H	288	54.3	4.1
4	*5610.00	112.7 PK			2.27 H	288	70.3	42.4
5	*5610.00	99.9 AV			2.27 H	288	57.5	42.4
6	#5725.00	60.4 PK	68.2	-7.8	2.27 H	288	54.8	5.6
7	11220.00	58.2 PK	74.0	-15.8	1.62 H	184	46.2	12.0
8	11220.00	45.2 AV	54.0	-8.8	1.62 H	184	33.2	12.0
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	56.9 PK	74.0	-17.1	1.35 V	293	52.8	4.1
2	5460.00	44.4 AV	54.0	-9.6	1.35 V	293	40.3	4.1
3	#5470.00	57.9 PK	68.2	-10.3	1.35 V	293	53.8	4.1
4	*5610.00	111.6 PK			1.35 V	293	69.2	42.4
5	*5610.00	98.8 AV			1.35 V	293	56.4	42.4
6	#5725.00	59.5 PK	68.2	-8.7	1.35 V	293	53.9	5.6
7	11220.00	57.3 PK	74.0	-16.7	2.26 V	124	45.3	12.0
8	11220.00	44.7 AV	54.0	-9.3	2.26 V	124	32.7	12.0

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 138 : 5690 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	21 °C, 69 % RH
Tested By	Greg Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5470.00	56.6 PK	68.2	-11.6	2.02 H	286	52.5	4.1
2	*5690.00	113.7 PK			2.02 H	286	70.7	43.0
3	*5690.00	100.8 AV			2.02 H	286	57.8	43.0
4	#5850.00	60.3 PK	68.2	-7.9	2.02 H	286	54.5	5.8
5	11380.00	58.8 PK	74.0	-15.2	1.67 H	179	46.3	12.5
6	11380.00	45.7 AV	54.0	-8.3	1.67 H	179	33.2	12.5
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	#5470.00	55.9 PK	68.2	-12.3	1.38 V	297	51.8	4.1
2	*5690.00	112.5 PK			1.38 V	297	69.5	43.0
3	*5690.00	99.6 AV			1.38 V	297	56.6	43.0
4	#5850.00	59.5 PK	68.2	-8.7	1.38 V	297	53.7	5.8
5	11380.00	57.8 PK	74.0	-16.2	2.31 V	122	45.3	12.5
6	11380.00	45.2 AV	54.0	-8.8	2.31 V	122	32.7	12.5

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 (HE80)	Channel	CH 155 : 5775 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	21 °C, 69 % RH
Tested By	Greg Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5642.80	67.4 PK	68.2	-0.8	2.04 H	287	62.3	5.1
2	*5775.00	113.7 PK			2.04 H	287	70.3	43.4
3	*5775.00	100.5 AV			2.04 H	287	57.1	43.4
4	#5926.00	66.8 PK	68.2	-1.4	2.04 H	287	60.9	5.9
5	11550.00	58.3 PK	74.0	-15.7	1.74 H	185	46.4	11.9
6	11550.00	45.2 AV	54.0	-8.8	1.74 H	185	33.3	11.9
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	#5647.20	64.9 PK	68.2	-3.3	1.32 V	294	59.8	5.1
2	*5775.00	112.1 PK			1.32 V	294	68.7	43.4
3	*5775.00	99.2 AV			1.32 V	294	55.8	43.4
4	#5927.20	62.6 PK	68.2	-5.6	1.32 V	294	56.7	5.9
5	11550.00	57.7 PK	74.0	-16.3	2.36 V	128	45.8	11.9
6	11550.00	44.9 AV	54.0	-9.1	2.36 V	128	33.0	11.9

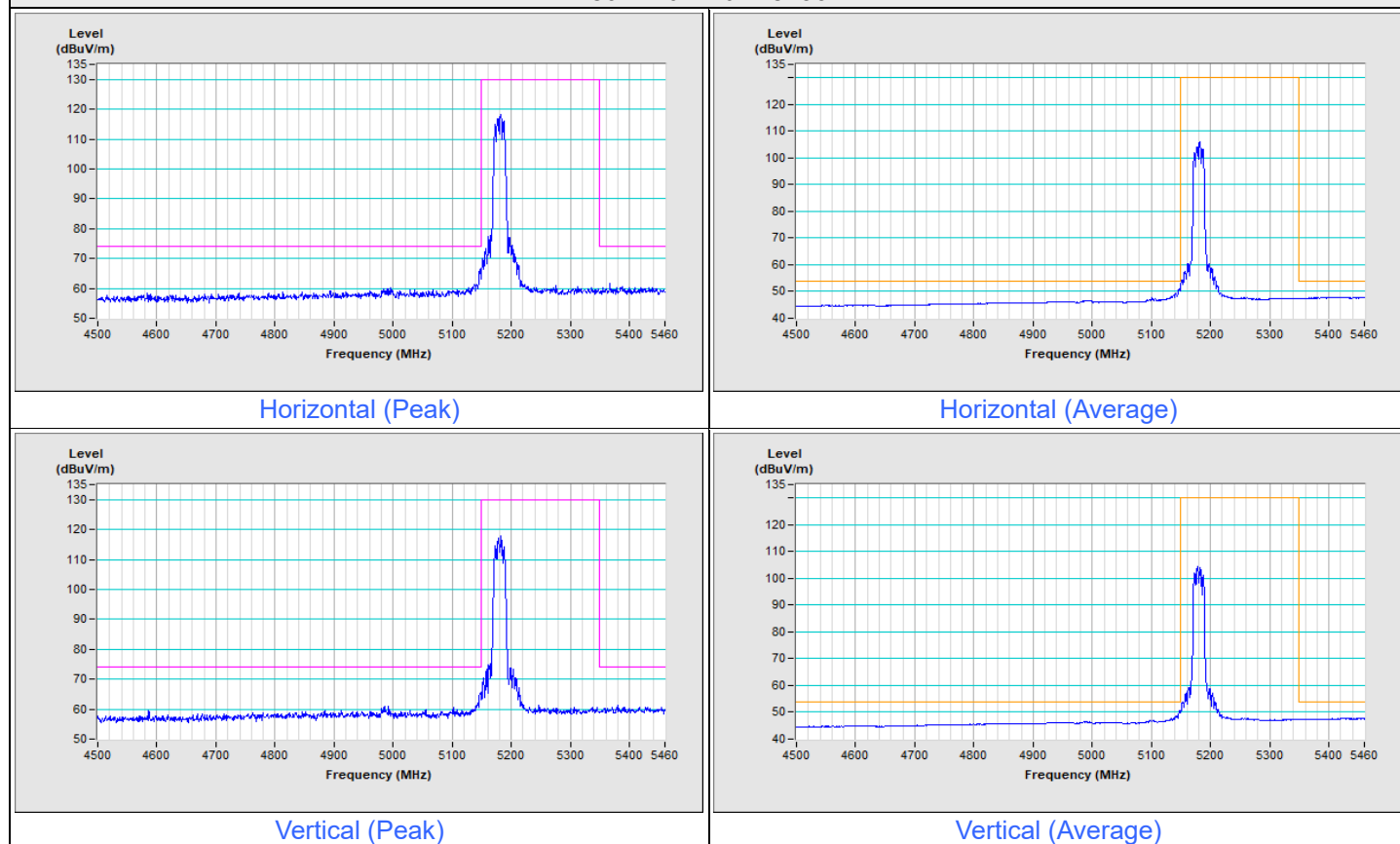
Remarks:

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.

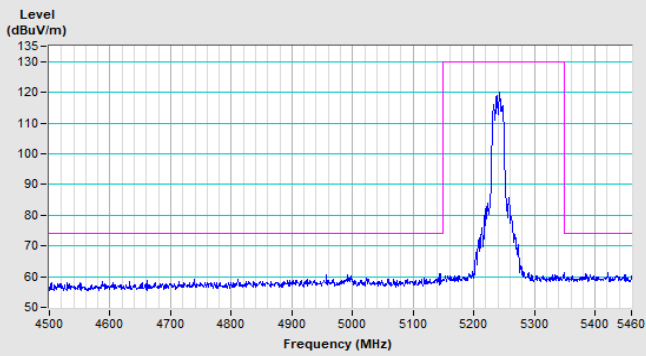
Plot of Band Edge

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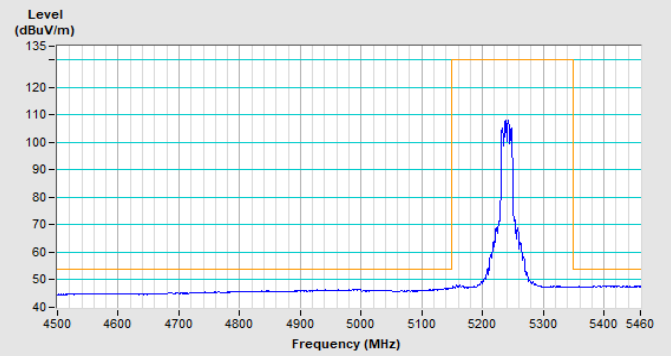
802.11a Channel 36



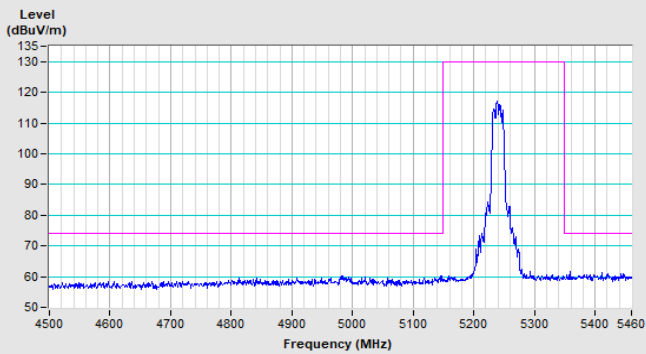
802.11a Channel 48



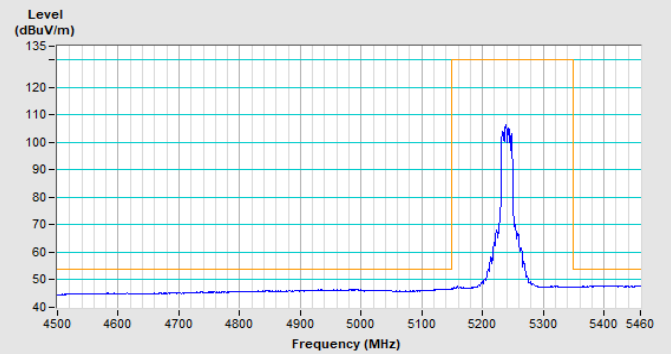
Horizontal (Peak)



Horizontal (Average)

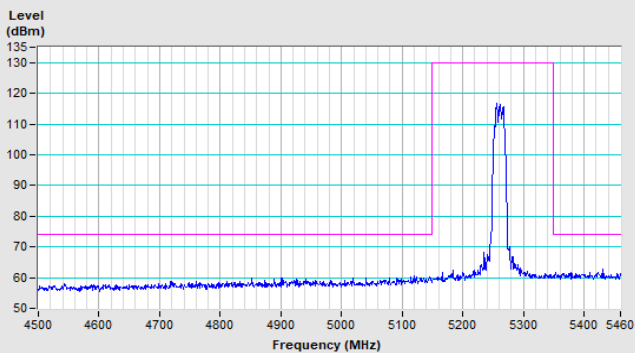


Vertical (Peak)

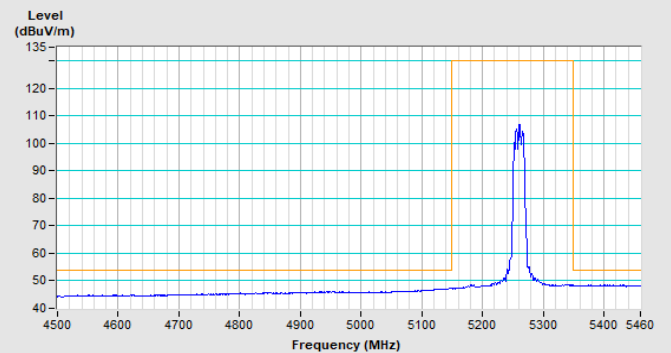


Vertical (Average)

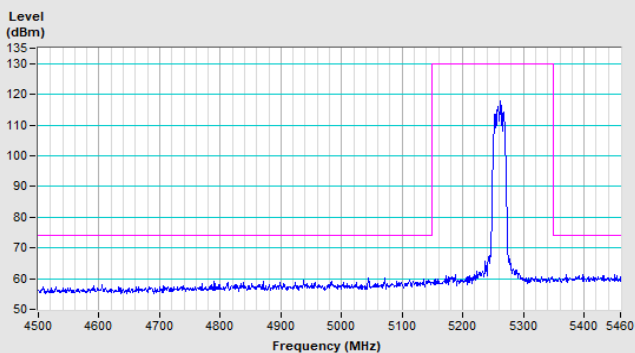
802.11a Channel 52



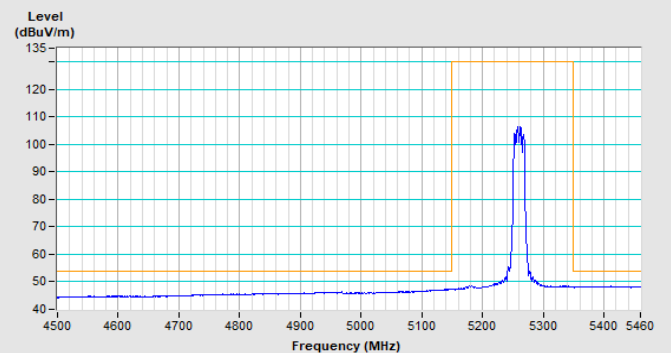
Horizontal (Peak)



Horizontal (Average)

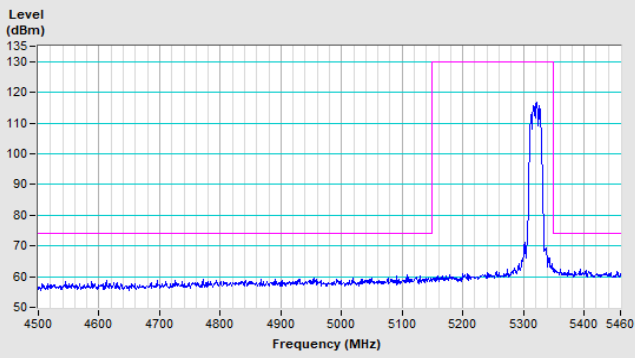


Vertical (Peak)

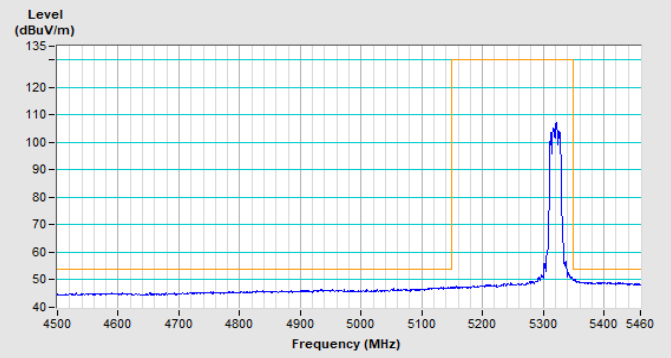


Vertical (Average)

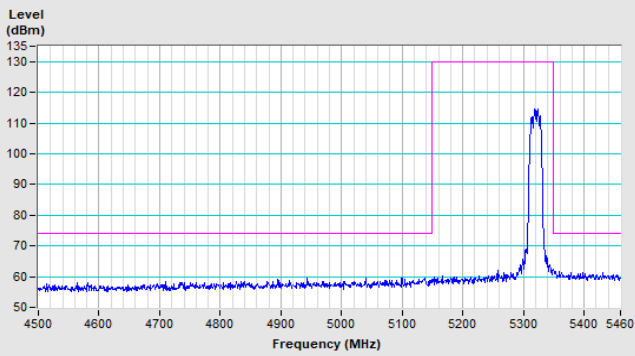
802.11a Channel 64



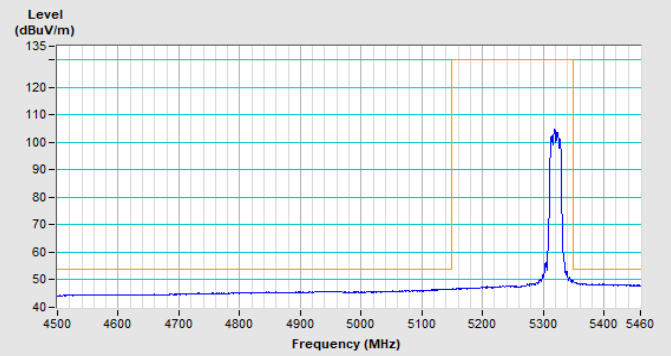
Horizontal (Peak)



Horizontal (Average)



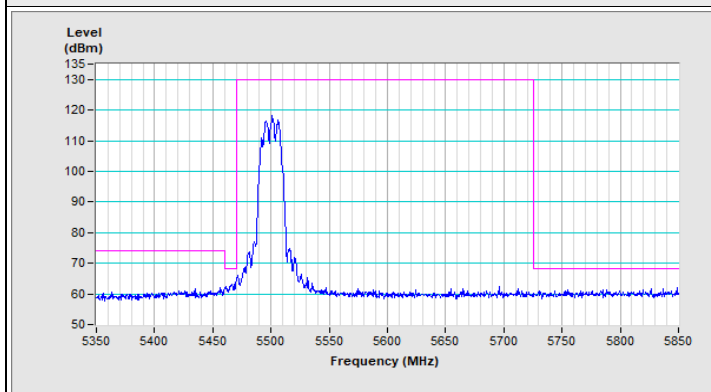
Vertical (Peak)



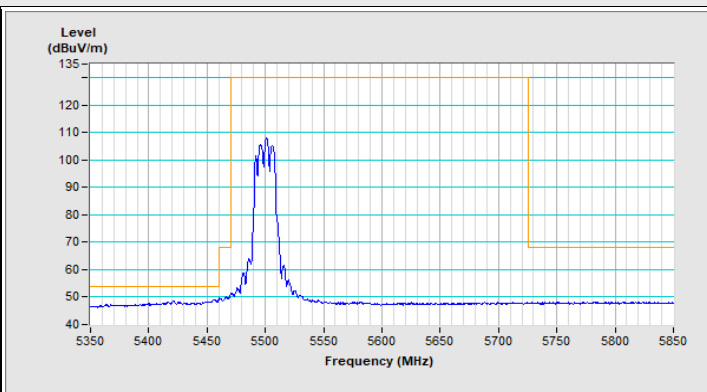
Vertical (Average)

Frequency Range	5.35 GHz ~ 5.85 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
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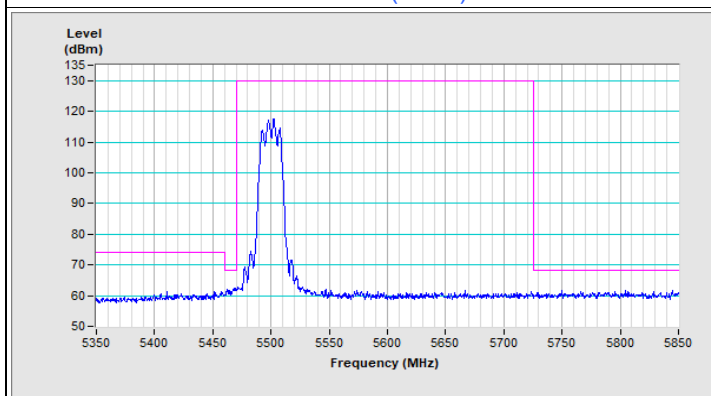
802.11a Channel 100



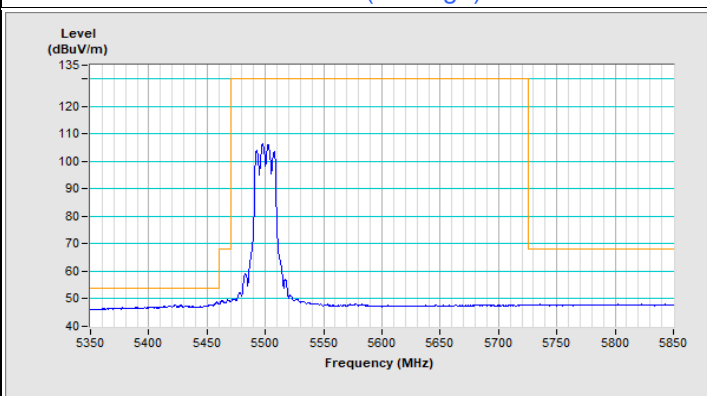
Horizontal (Peak)



Horizontal (Average)

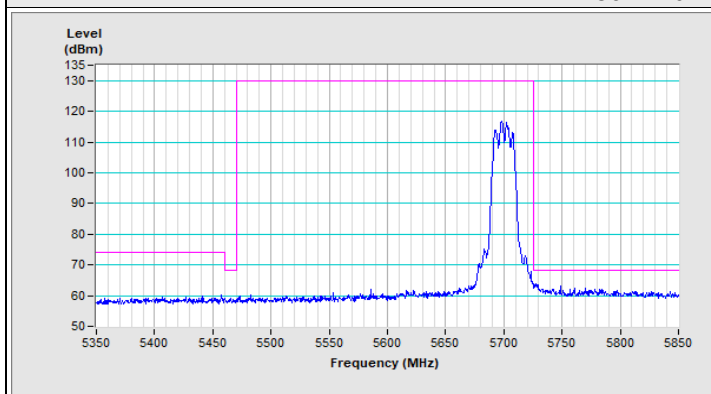


Vertical (Peak)

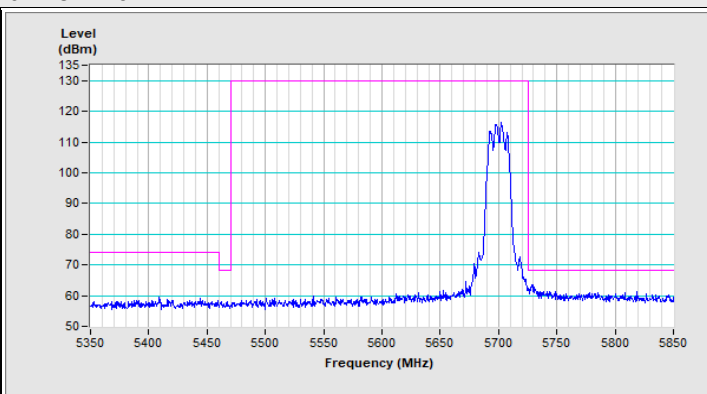


Vertical (Average)

802.11a Channel 140

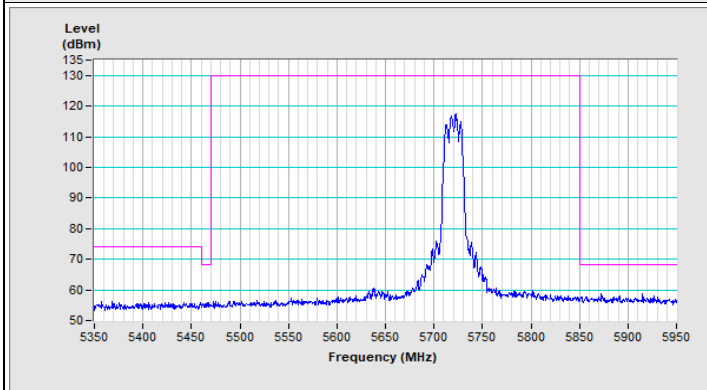


Horizontal (Peak)

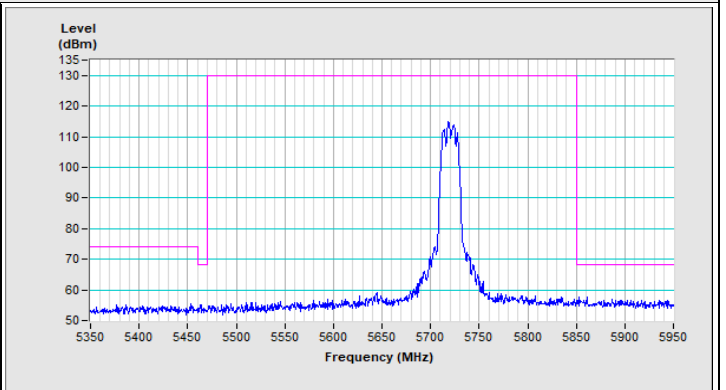


Vertical (Peak)

Frequency Range	5.35 GHz ~ 5.95 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak
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802.11a Channel 144

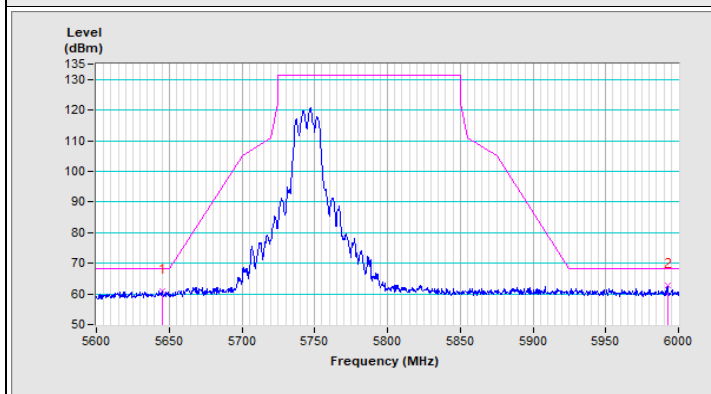
Horizontal (Peak)



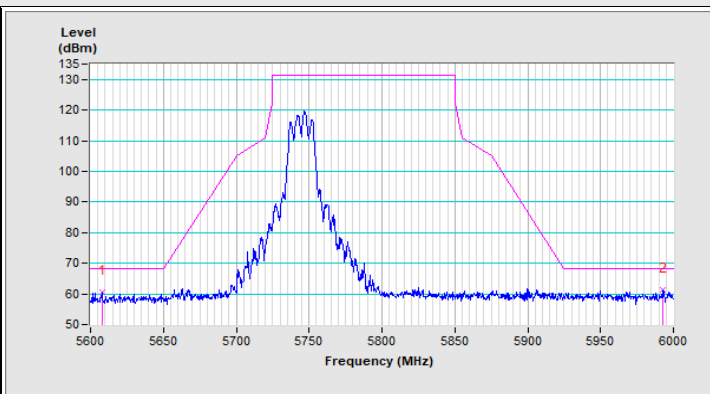
Vertical (Peak)

Frequency Range	5.6 GHz ~ 6 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak
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802.11a Channel 149

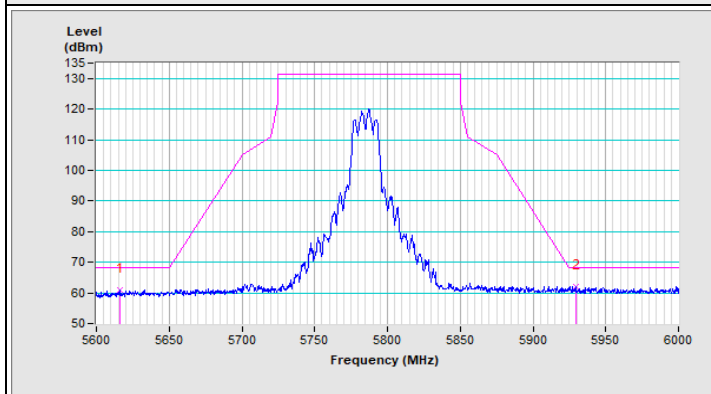


Horizontal (Peak)

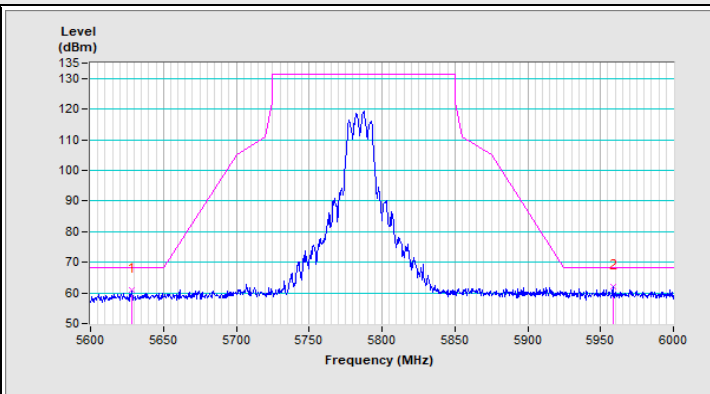


Vertical (Peak)

802.11a Channel 157

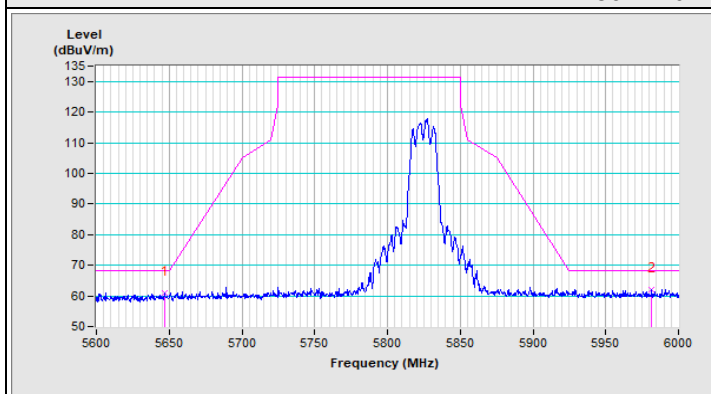


Horizontal (Peak)

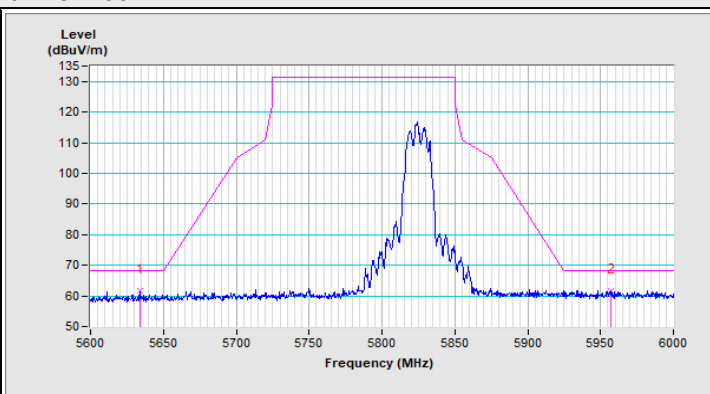


Vertical (Peak)

802.11a Channel 165



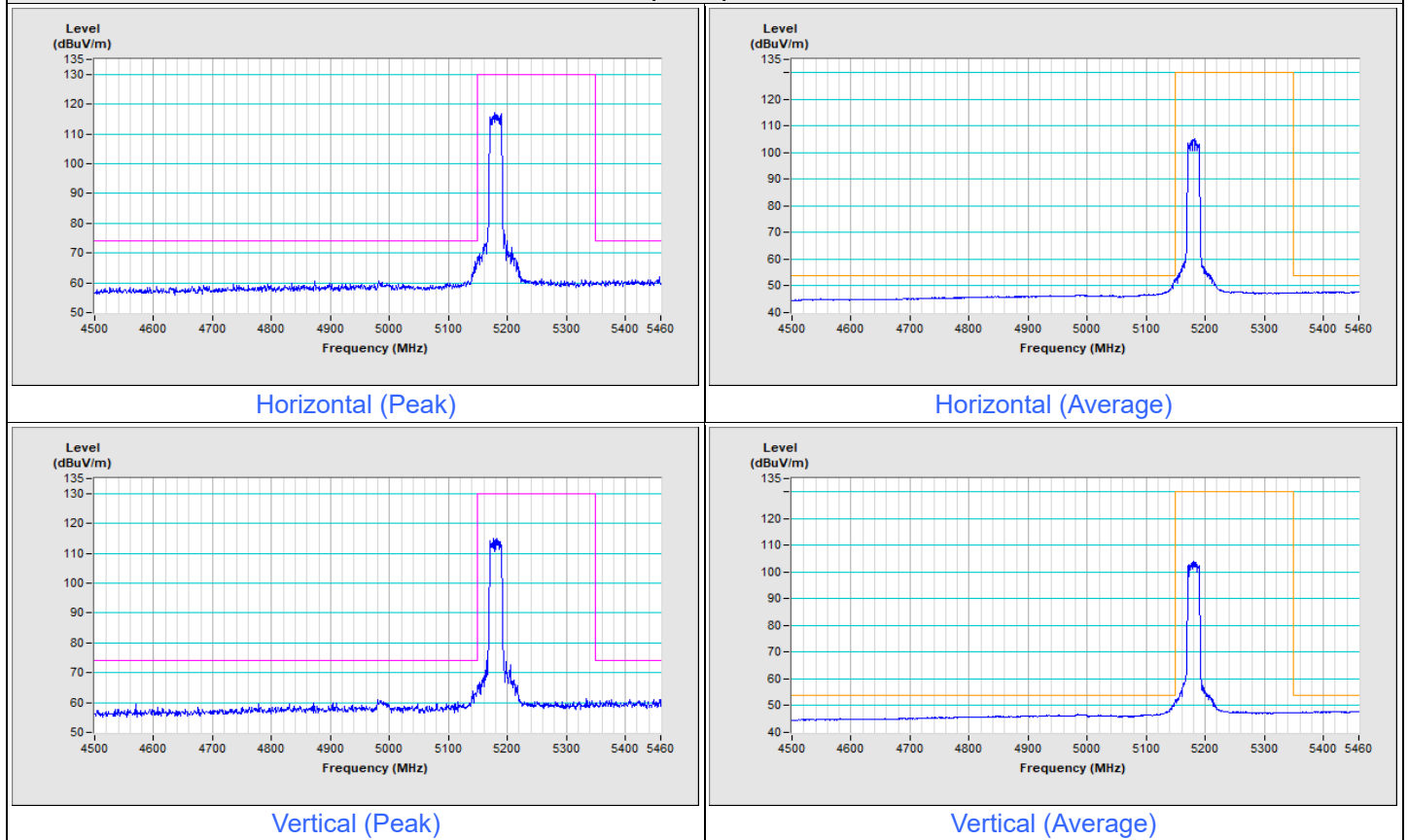
Horizontal (Peak)



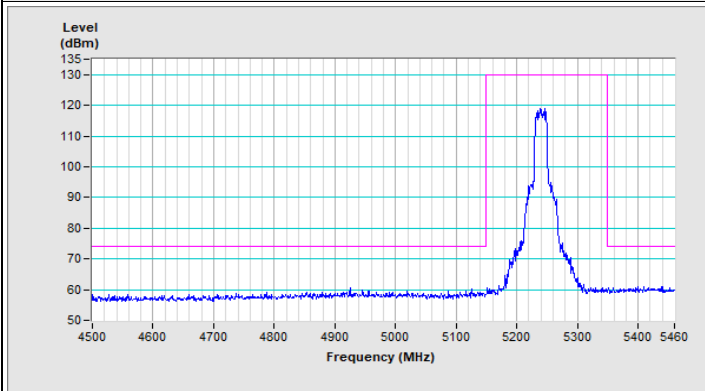
Vertical (Peak)

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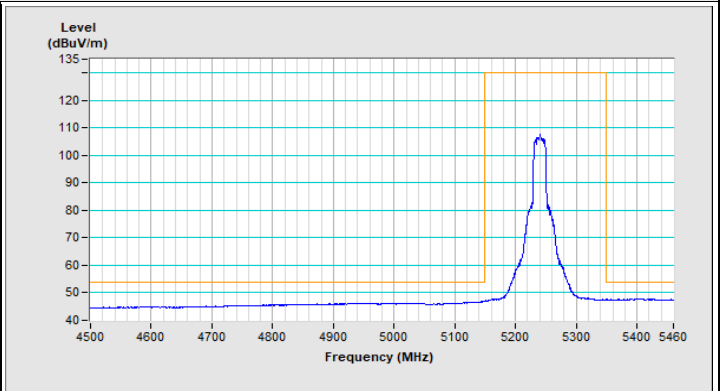
802.11ax (HE20) Channel 36



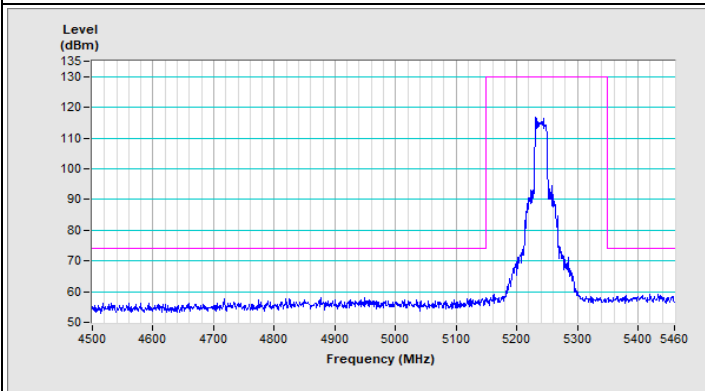
802.11ax (HE20) Channel 48



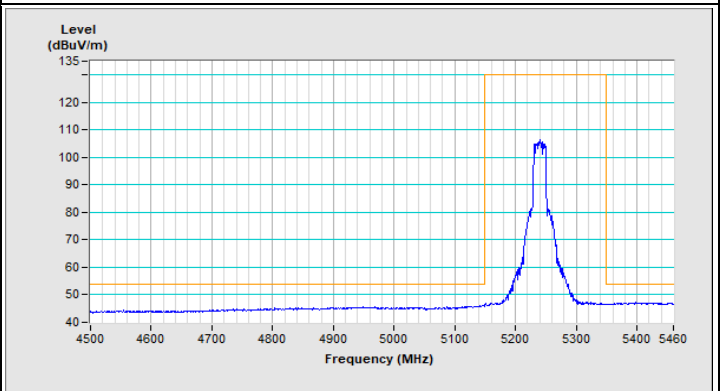
Horizontal (Peak)



Horizontal (Average)

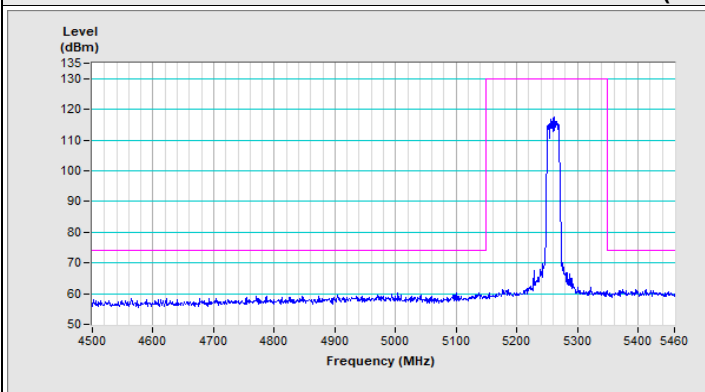


Vertical (Peak)

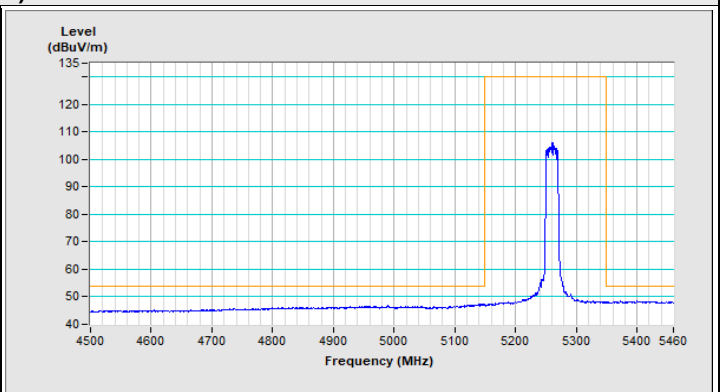


Vertical (Average)

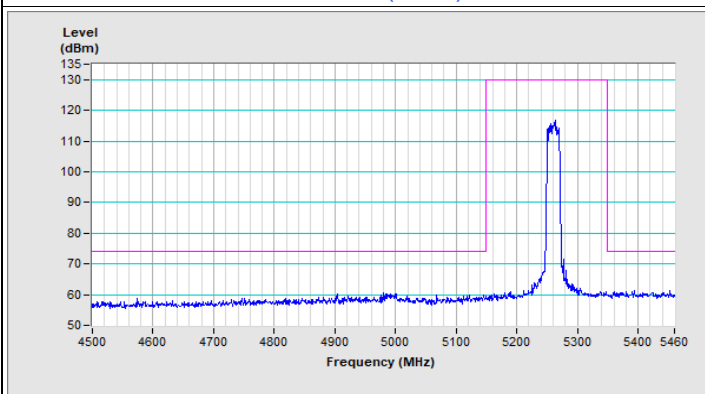
802.11ax (HE20) Channel 52



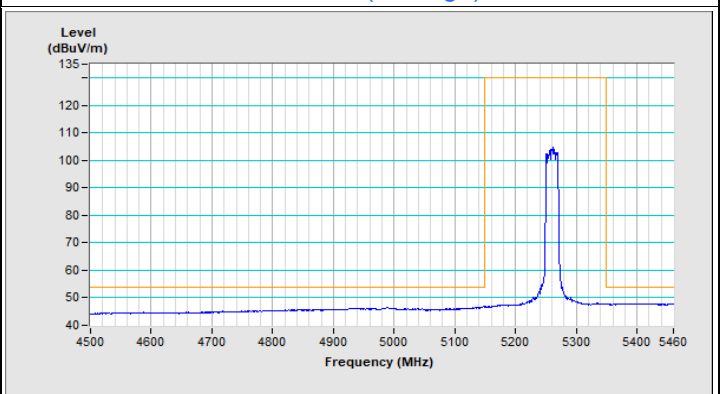
Horizontal (Peak)



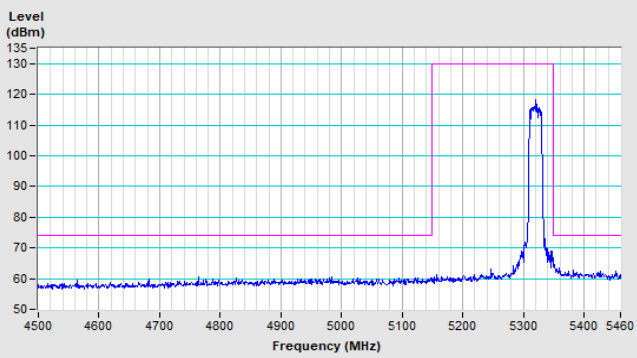
Horizontal (Average)



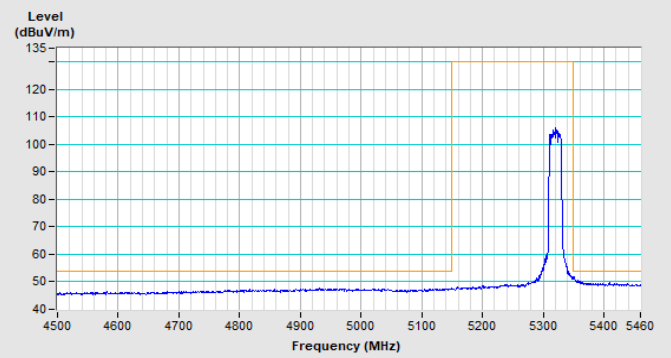
Vertical (Peak)



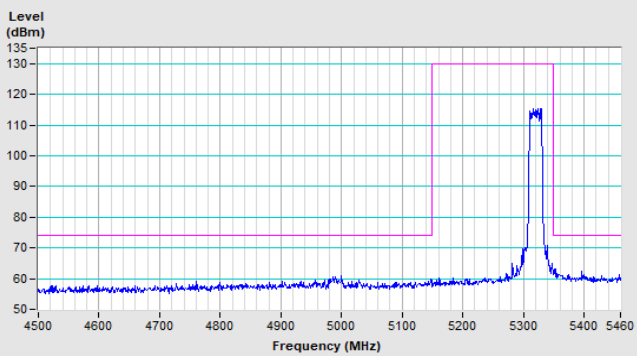
Vertical (Average)

802.11ax (HE20) Channel 64

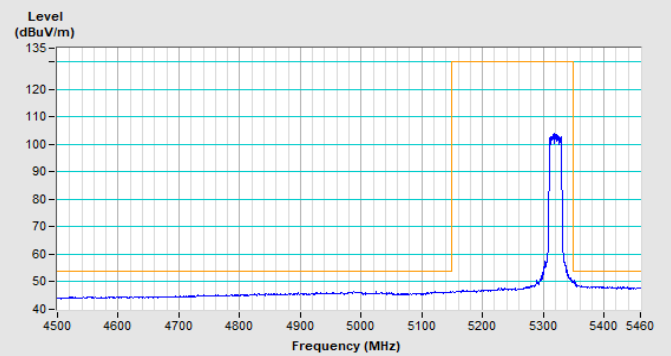
Horizontal (Peak)



Horizontal (Average)



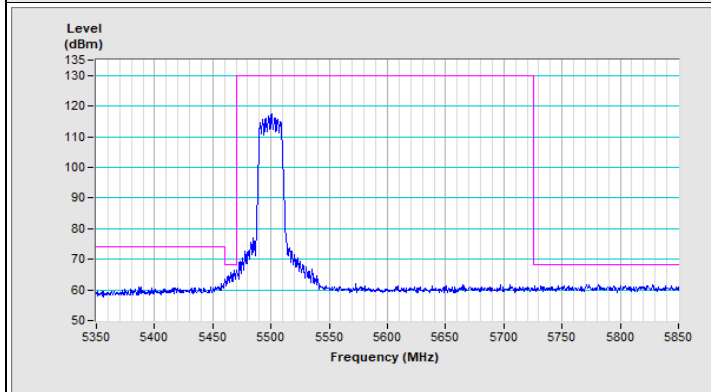
Vertical (Peak)



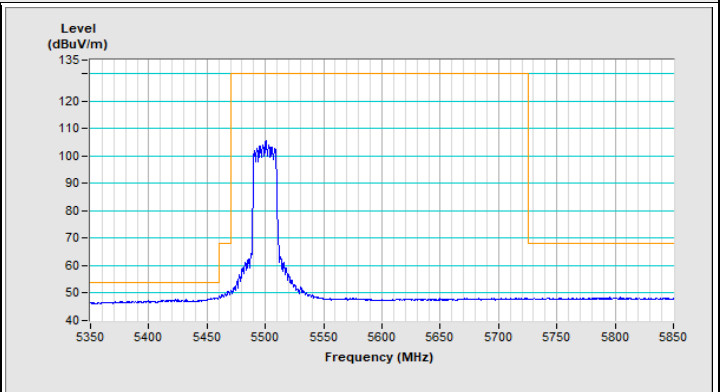
Vertical (Average)

Frequency Range	5.35 GHz ~ 5.85 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
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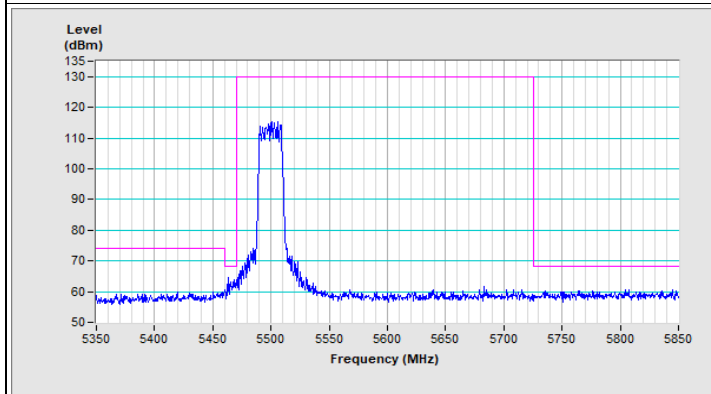
802.11ax (HE20) Channel 100



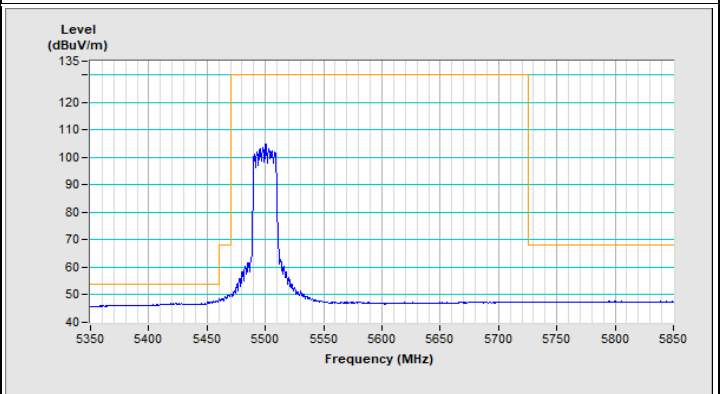
Horizontal (Peak)



Horizontal (Average)

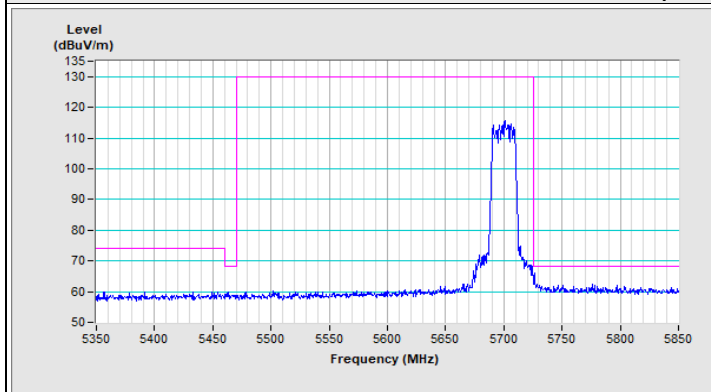


Vertical (Peak)

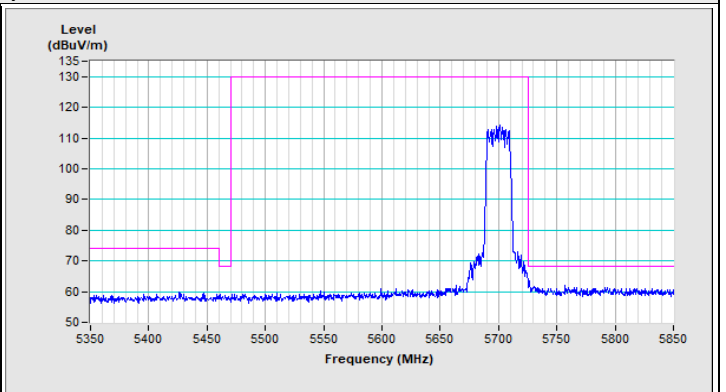


Vertical (Average)

802.11ax (HE20) Channel 140

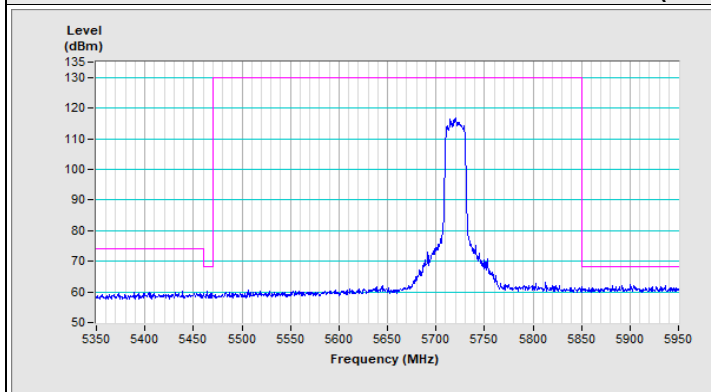


Horizontal (Peak)

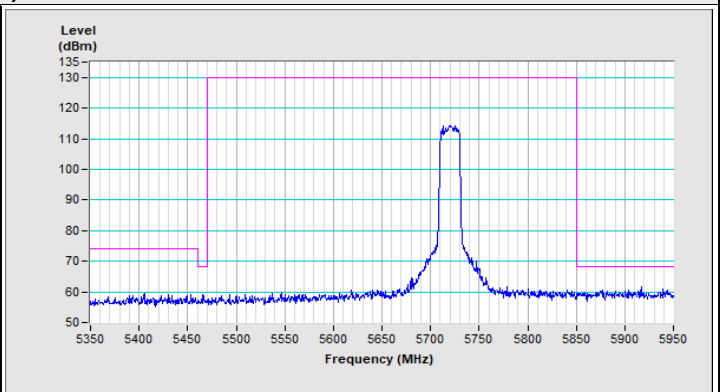


Vertical (Peak)

Frequency Range	5.35 GHz ~ 5.95 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak
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802.11ax (HE20) Channel 144

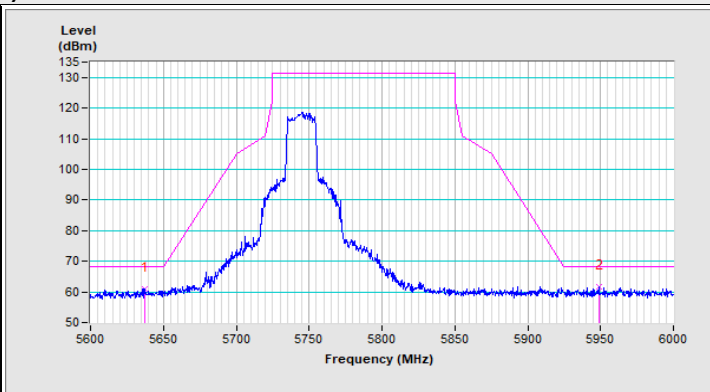
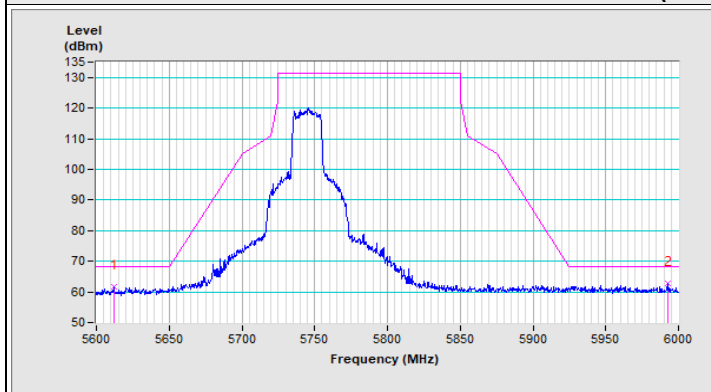
Horizontal (Peak)



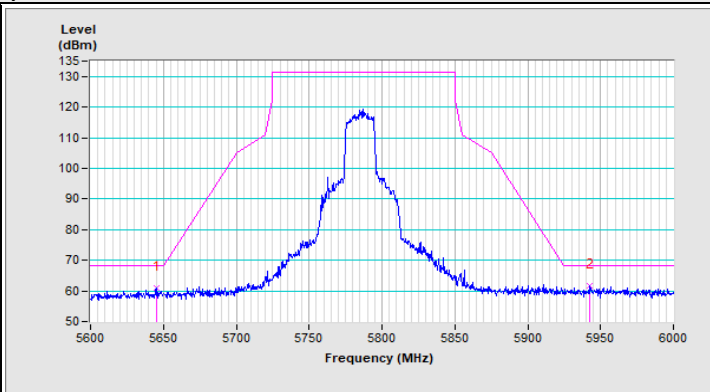
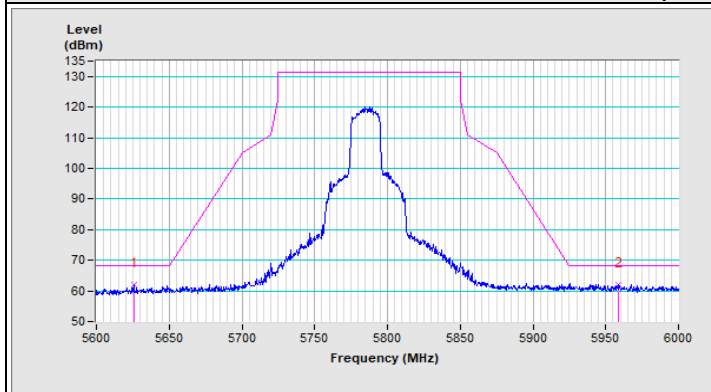
Vertical (Peak)

Frequency Range	5.6 GHz ~ 6 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak
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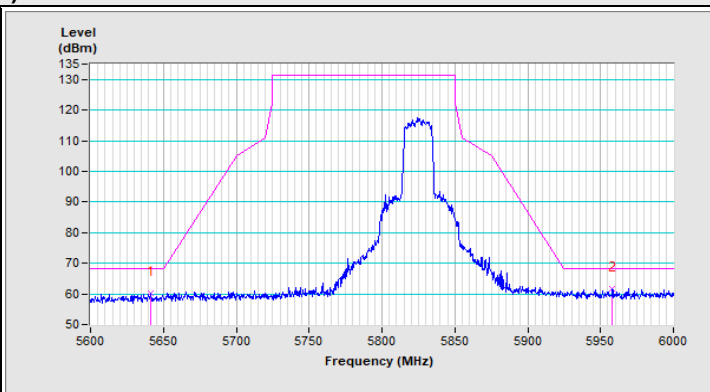
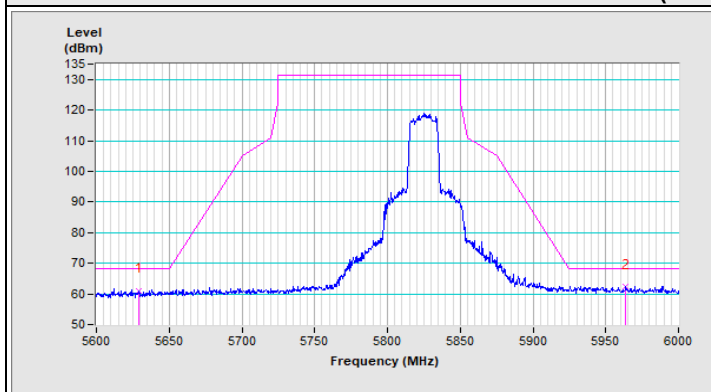
802.11ax (HE20) Channel 149



802.11ax (HE20) Channel 157

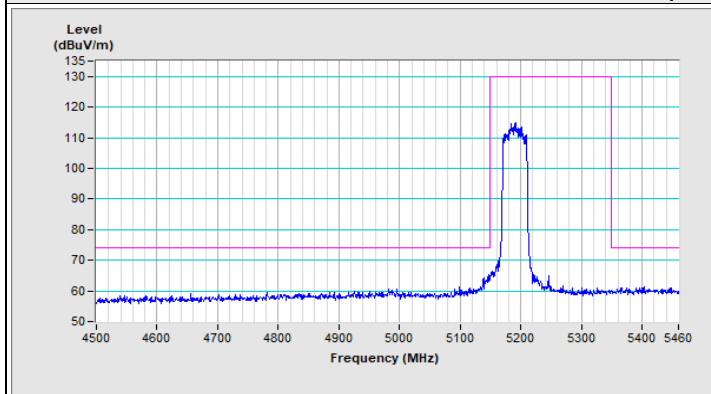


802.11ax (HE20) Channel 165

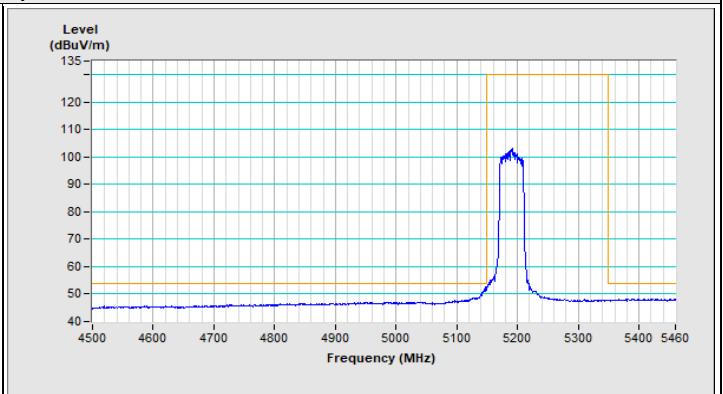


Frequency Range	4.5 GHz ~ 5.46 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
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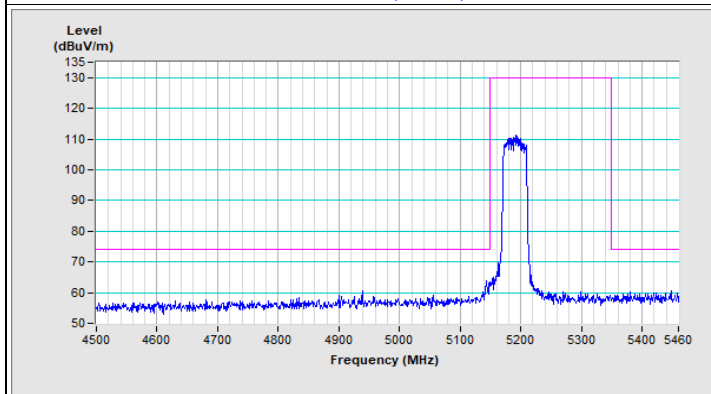
802.11ax (HE40) Channel 38



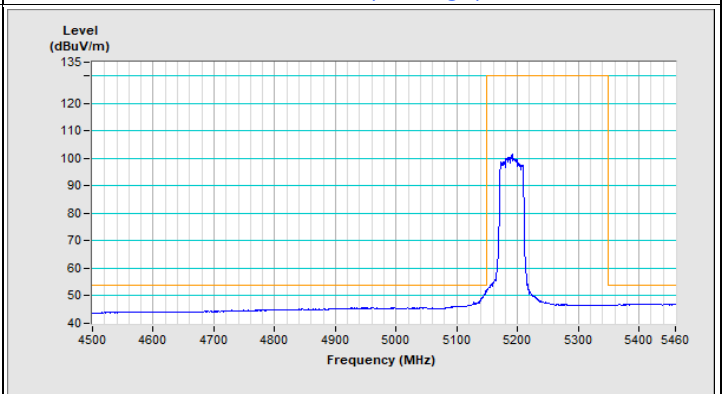
Horizontal (Peak)



Horizontal (Average)

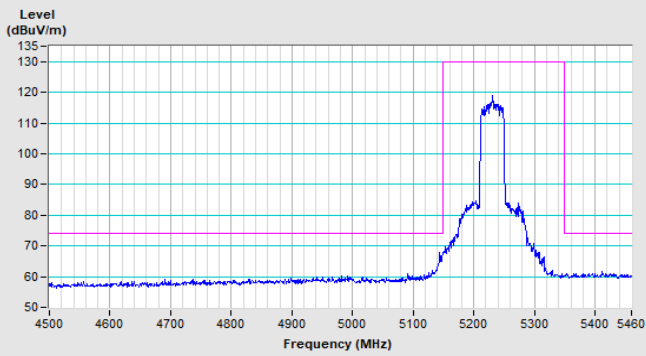


Vertical (Peak)

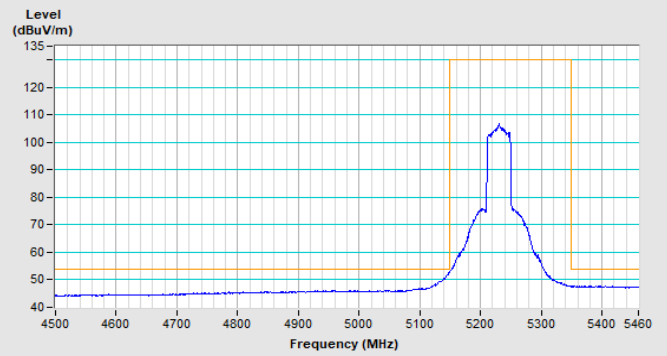


Vertical (Average)

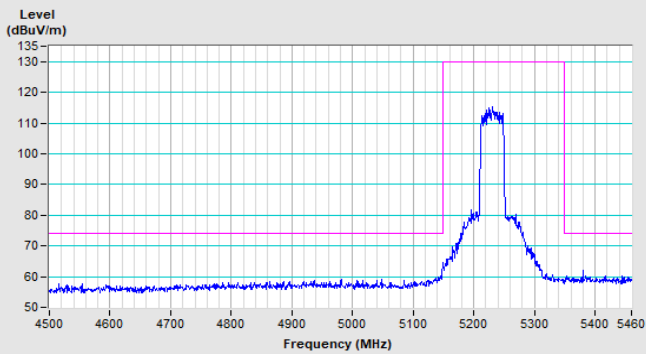
802.11ax (HE40) Channel 46



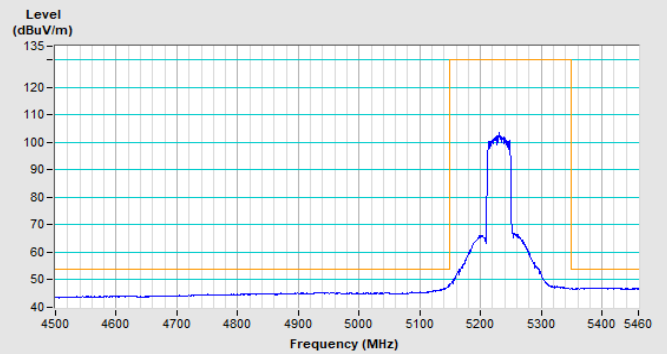
Horizontal (Peak)



Horizontal (Average)

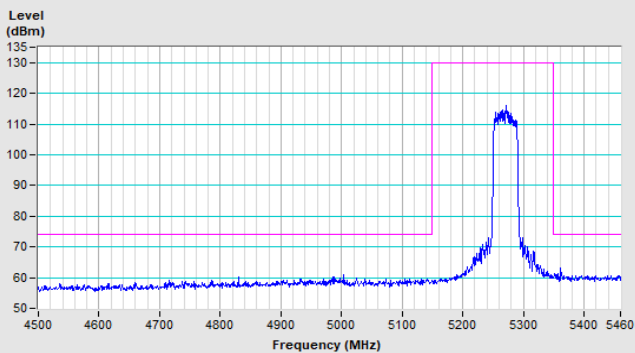


Vertical (Peak)

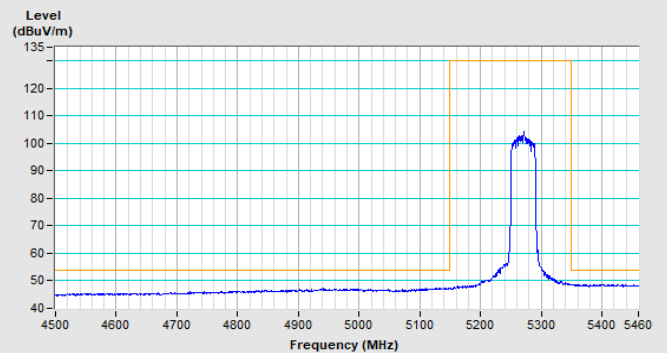


Vertical (Average)

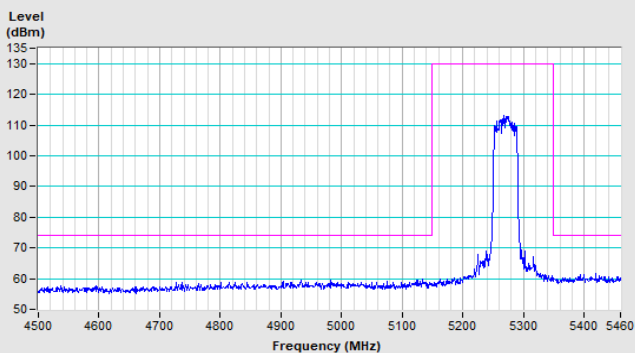
802.11ax (HE40) Channel 54



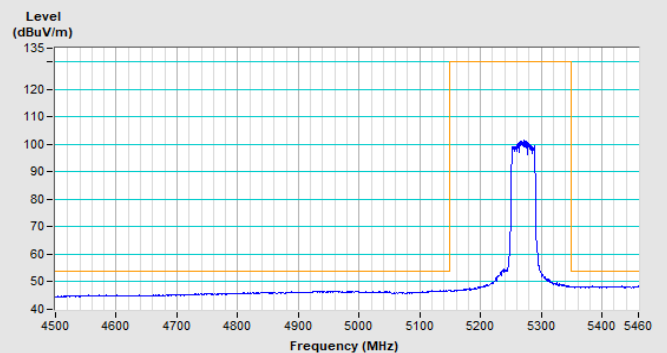
Horizontal (Peak)



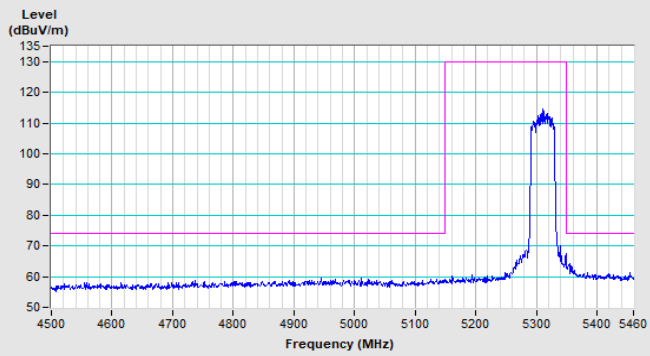
Horizontal (Average)



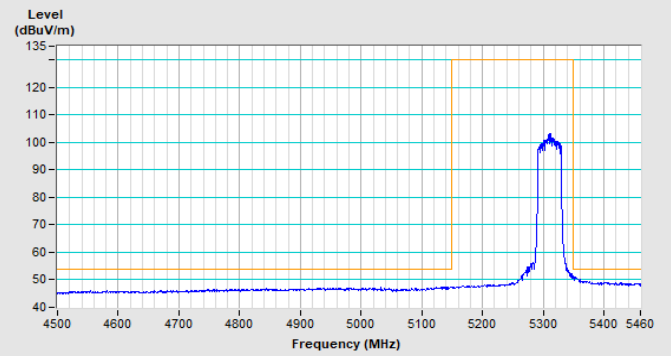
Vertical (Peak)



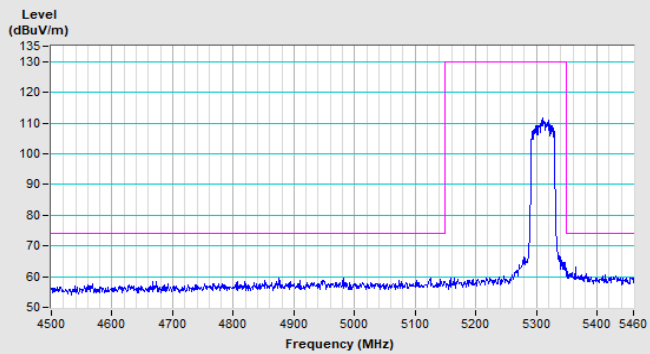
Vertical (Average)

802.11ax (HE40) Channel 62

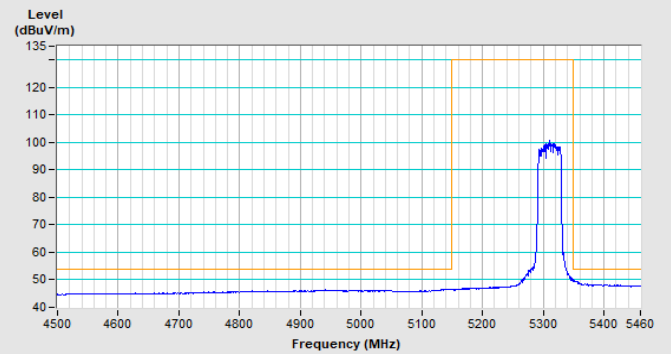
Horizontal (Peak)



Horizontal (Average)



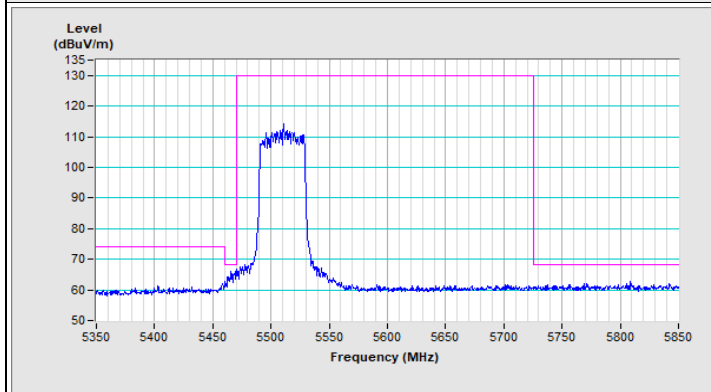
Vertical (Peak)



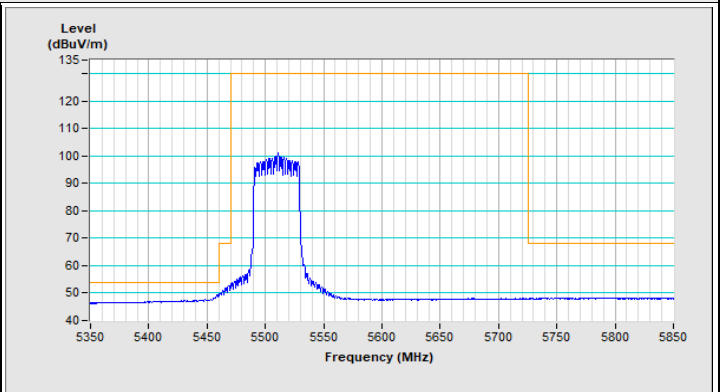
Vertical (Average)

Frequency Range	5.35 GHz ~ 5.85 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
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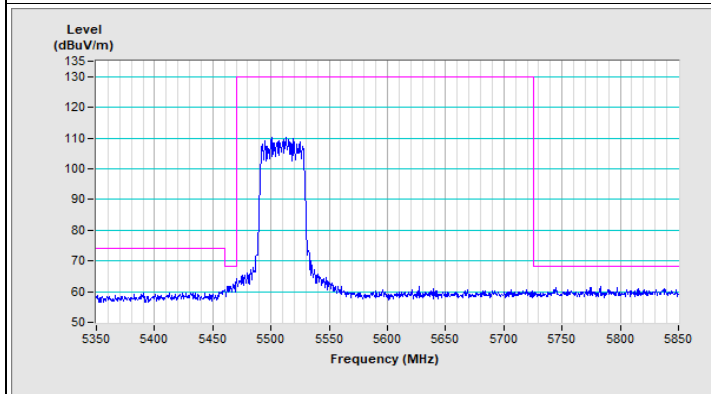
802.11ax (HE40) Channel 102



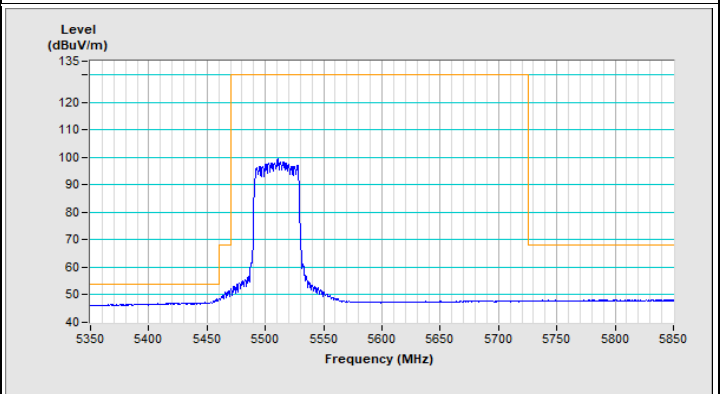
Horizontal (Peak)



Horizontal (Average)

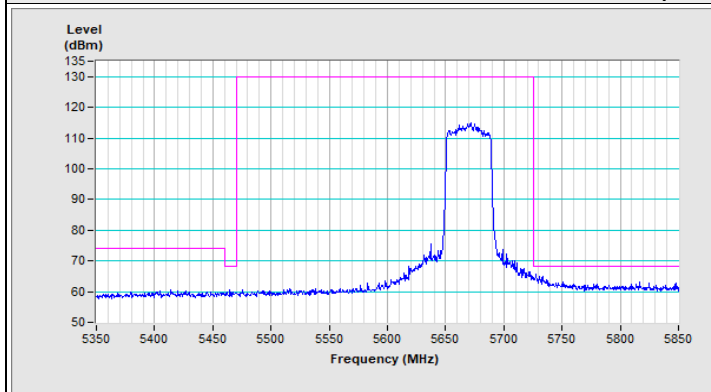


Vertical (Peak)

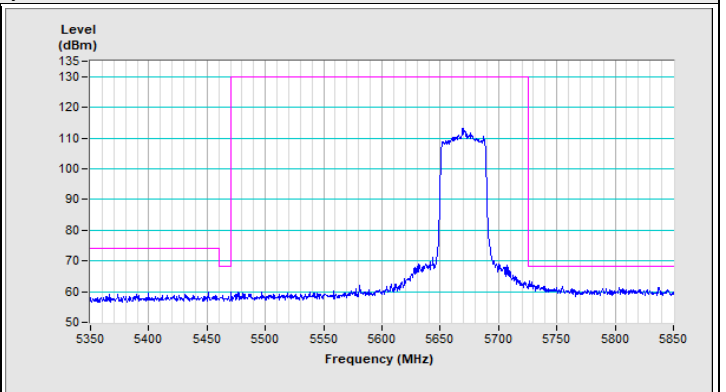


Vertical (Average)

802.11ax (HE40) Channel 134



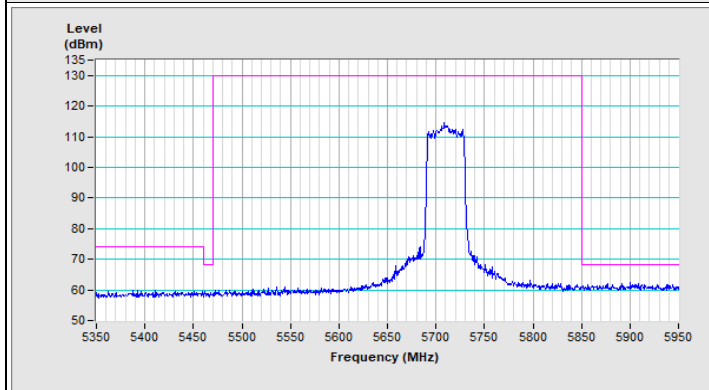
Horizontal (Peak)



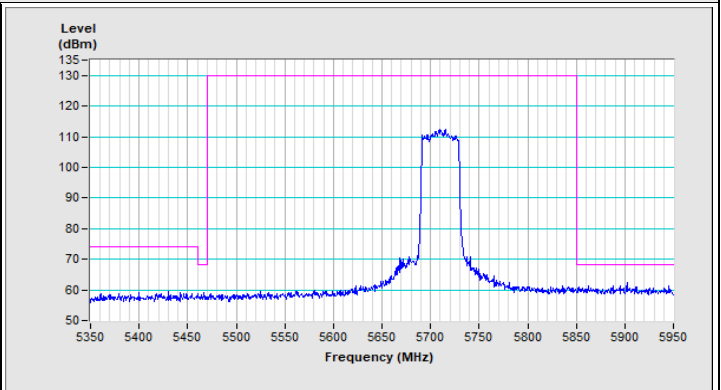
Vertical (Peak)

Frequency Range	5.35 GHz ~ 5.95 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak
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802.11ax (HE40) Channel 142



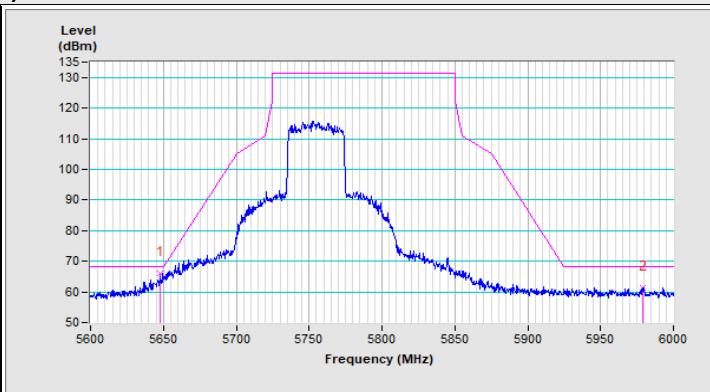
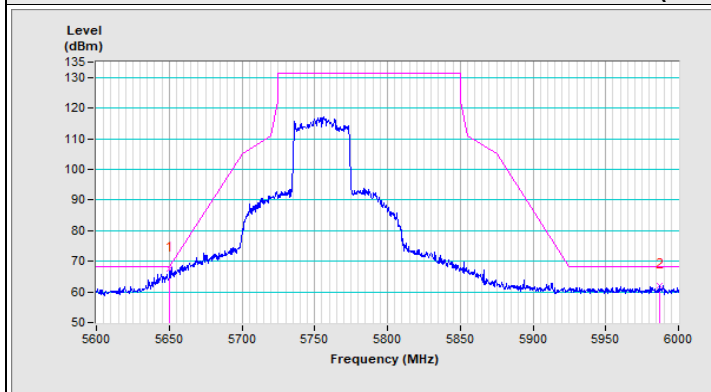
Horizontal (Peak)



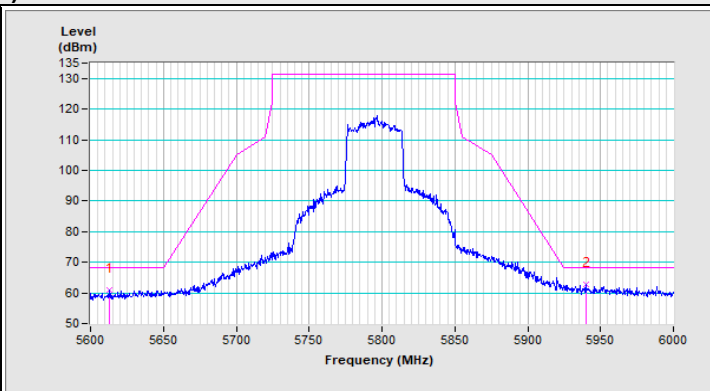
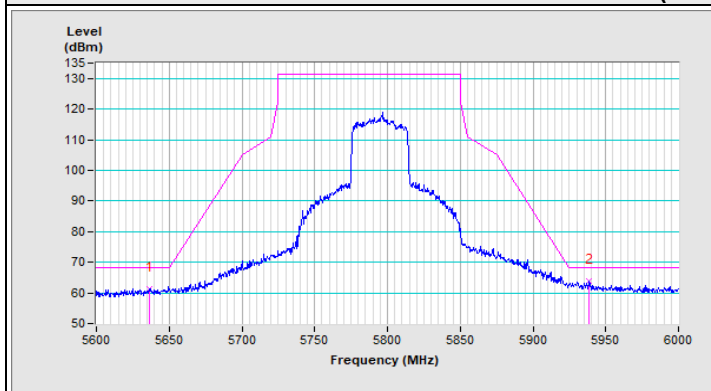
Vertical (Peak)

Frequency Range	5.6 GHz ~ 6 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak
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802.11ax (HE40) Channel 151

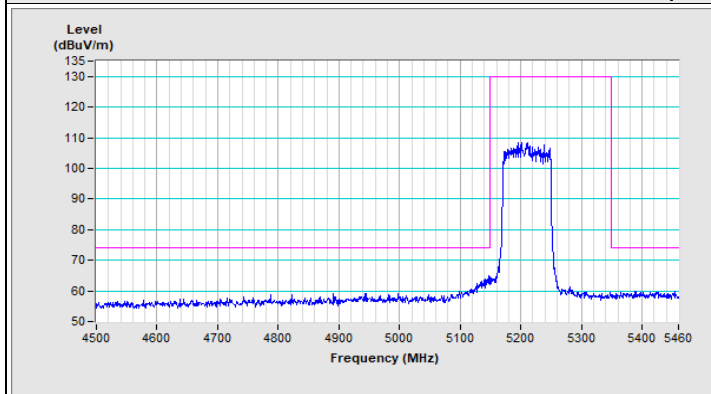


802.11ax (HE40) Channel 159

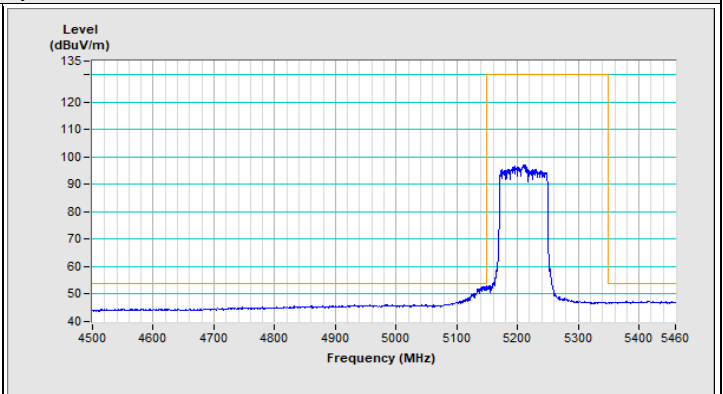


Frequency Range	4.5 GHz ~ 5.46 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
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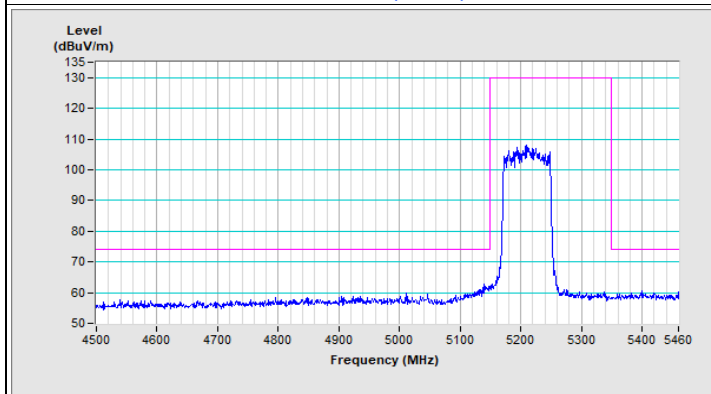
802.11ax (HE80) Channel 42



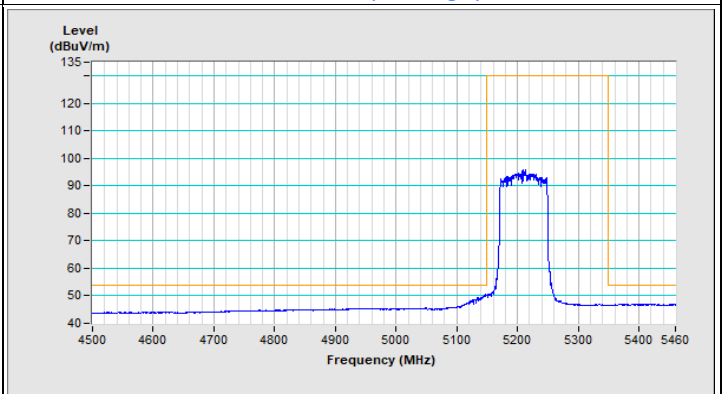
Horizontal (Peak)



Horizontal (Average)

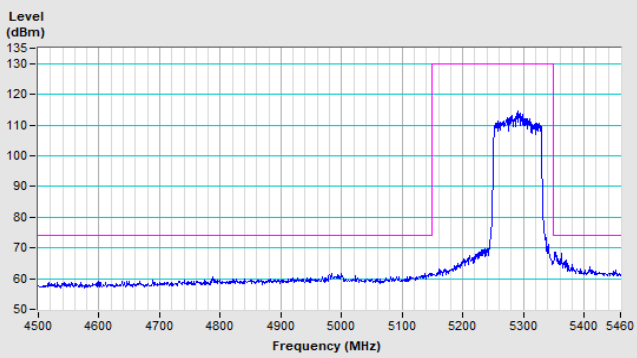


Vertical (Peak)

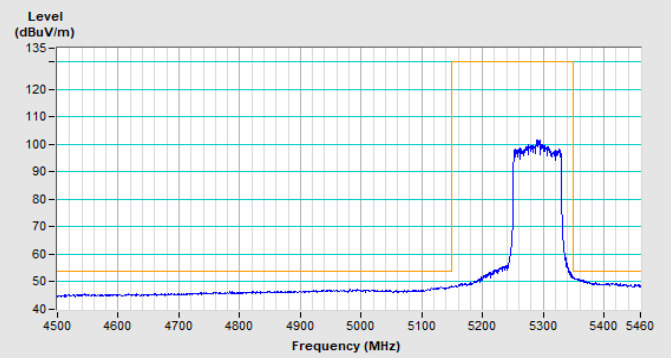


Vertical (Average)

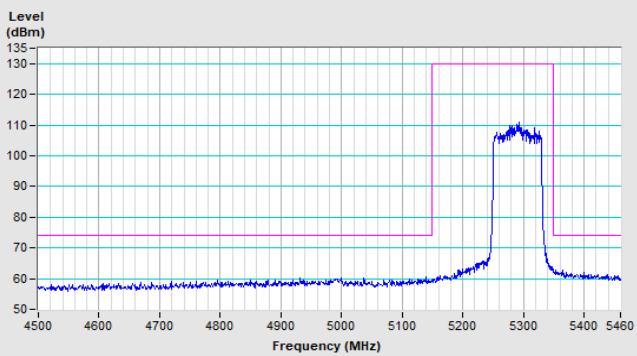
802.11ax (HE80) Channel 58



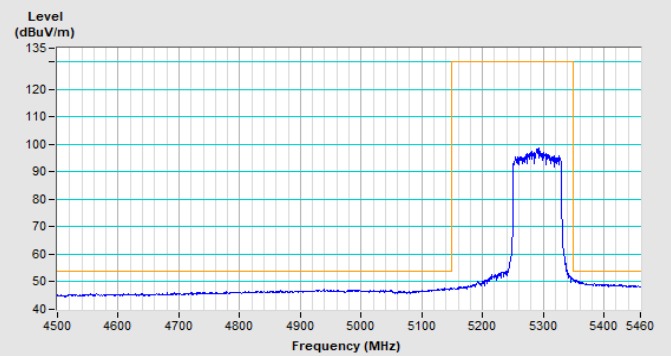
Horizontal (Peak)



Horizontal (Average)



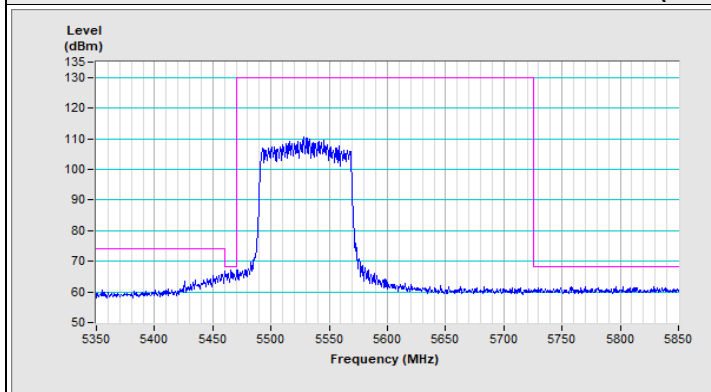
Vertical (Peak)



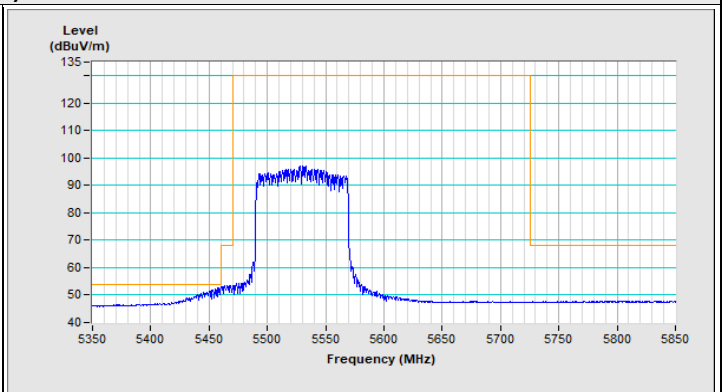
Vertical (Average)

Frequency Range	5.35 GHz ~ 5.85 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
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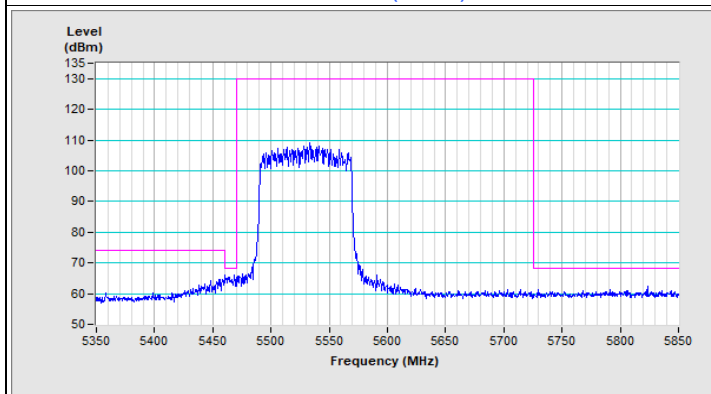
802.11ax (HE80) Channel 106



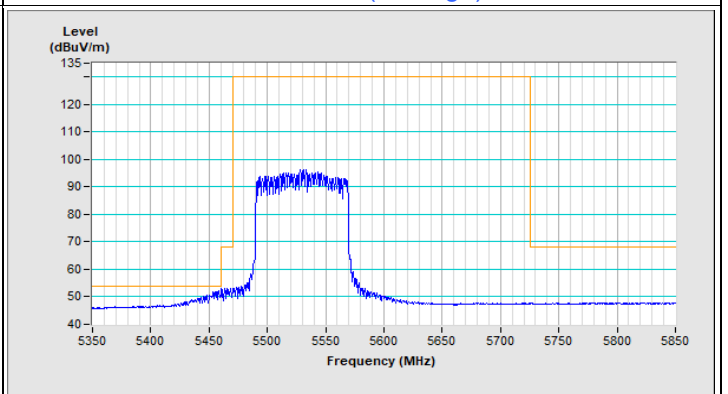
Horizontal (Peak)



Horizontal (Average)

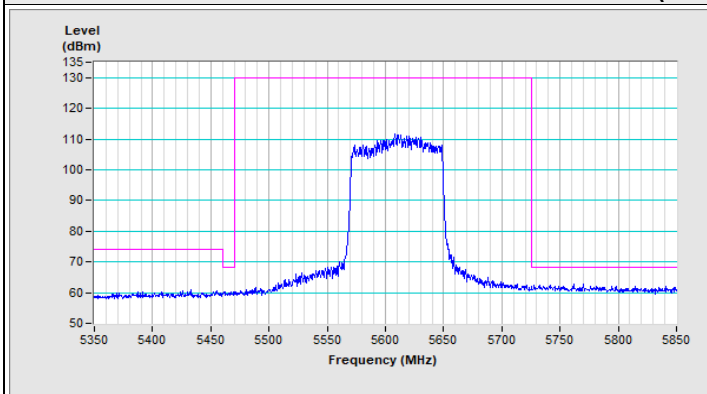


Vertical (Peak)

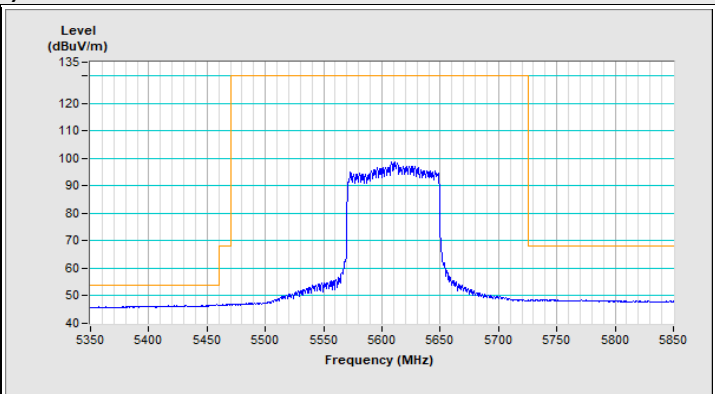


Vertical (Average)

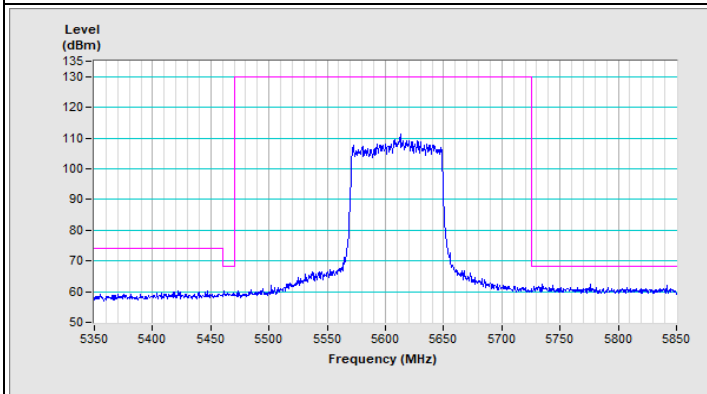
802.11ax (HE80) Channel 122



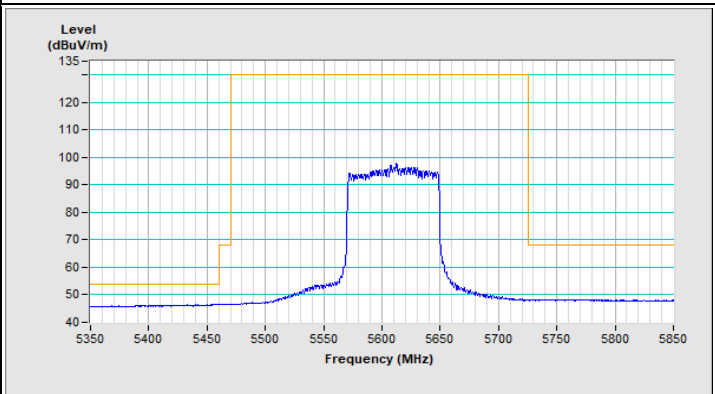
Horizontal (Peak)



Horizontal (Average)



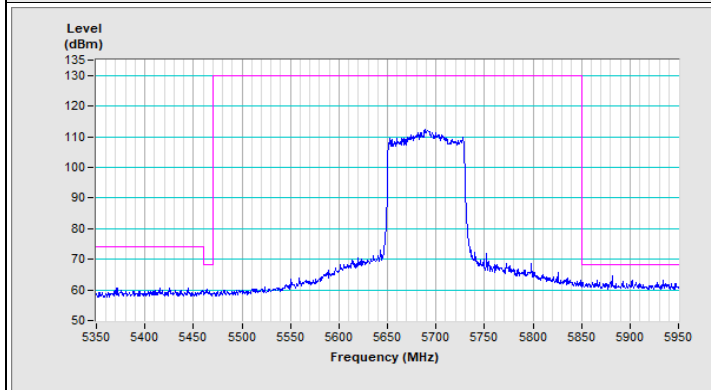
Vertical (Peak)



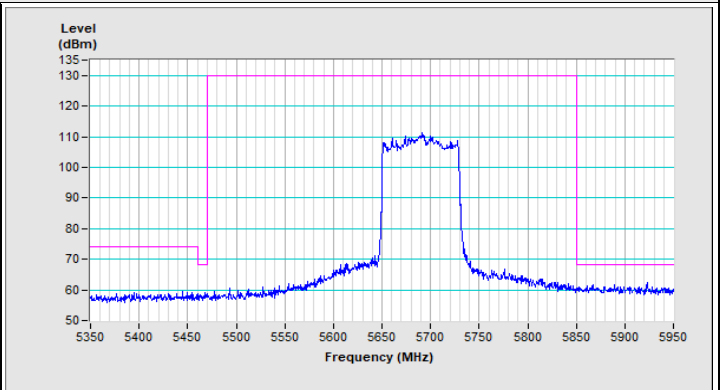
Vertical (Average)

Frequency Range	5.35 GHz ~ 5.95 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak
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802.11ax (HE80) Channel 138



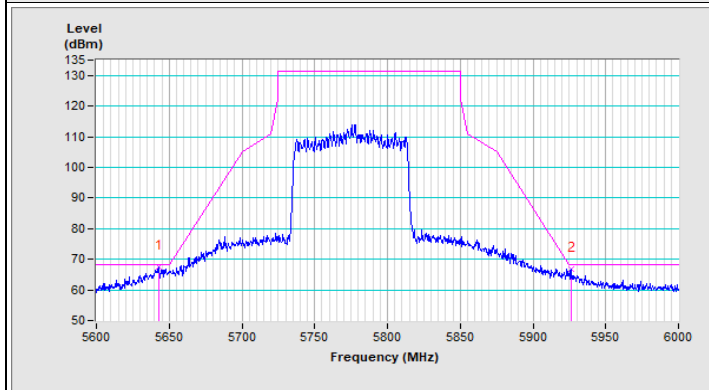
Horizontal (Peak)



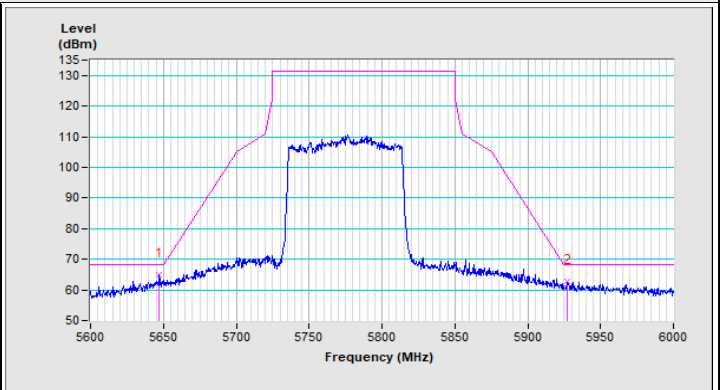
Vertical (Peak)

Frequency Range	5.6 GHz ~ 6 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak
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802.11ax (HE80) Channel 155



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:

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

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