

TEST REPORT

CERTIFICATE OF CONFORMITY

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

Report No.: RFBHQC-WTW-P22060972A-1

FCC ID: XCNUBN2310

Product: GPON

Brand: 
altice

Model No.: UBN2310

Series Model: GR140IG

Received Date: 2023/2/10

Test Date: 2023/5/10 ~ 2023/6/5

Issued Date: 2023/7/3

Applicant: Ubee Interactive Holding Corp. Taiwan Branch

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

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

FCC Registration / 723255 / TW2022

Designation Number:

Approved by:  , **Date:** 2023/7/3
May Chen / Manager

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Prepared by : Vito Lung / Specialist



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Release Control Record

Issue No.	Description	Date Issued
RFBHQC-WTW-P22060972A-1	Original release.	2023/7/3

1 Certificate

Product: GPON

Brand: 
altice

Test Model: UBN2310

Series Model: GR140IG

Sample Status: Mass product

Applicant: Ubee Interactive Holding Corp. Taiwan Branch

Test Date: 2023/5/10 ~ 2023/6/5

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	Pass	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(g)	Frequency Stability	Pass	Meet the requirement of limit.
15.407(b)(9)	AC Power Conducted Emissions	Pass	Minimum passing margin is -10.44 dB at 0.43906 MHz
15.407(b)(9)	Unwanted Emissions below 1 GHz	Pass	Minimum passing margin is -10.3 dB at 64.52 MHz
15.407(b) (1/10) 15.407(b) (2/10) 15.407(b) (3/10) 15.407(b) (4(i)/10)	Unwanted Emissions above 1 GHz	Pass	Minimum passing margin is -0.1 dB at 5648.14, 5725.00 MHz
15.203	Antenna Requirement	Pass	Antenna connector is ipex(MHF) not a standard connector.

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

2.1 Measurement Uncertainty

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

Measurement	Specification	Expanded Uncertainty (k=2) (±)
AC Power Conducted Emissions	150 kHz ~ 30 MHz	1.9 dB
Unwanted Emissions below 1 GHz	9 kHz ~ 30 MHz	3.1 dB
	30 MHz ~ 1 GHz	5.5 dB
Unwanted Emissions above 1 GHz	1 GHz ~ 18 GHz	5.1 dB
	18 GHz ~ 40 GHz	5.3 dB

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

2.2 Supplementary Information

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

3 General Information

3.1 General Description of EUT

Product	GPON
Brand	
Test Model	UBN2310
Series Model	GR140IG
Status of EUT	Mass product
Power Supply Rating	12 Vdc from power adapter
Modulation Type	64QAM, 16QAM, QPSK, BPSK for OFDM 256QAM for OFDM in 11ac mode 1024QAM for OFDMA in 11ax HE mode
Modulation Technology	OFDM, OFDMA
Transfer Rate	802.11a: up to 54 Mbps 802.11n: up to 600 Mbps 802.11ac: up to 3466.7 Mbps 802.11ax: up to 4803.9 Mbps
Operating Frequency	5.18 GHz ~ 5.25 GHz 5.26 GHz ~ 5.32 GHz 5.5 GHz ~ 5.72 GHz 5.745 GHz ~ 5.825 GHz
Number of Channel	802.11a, 802.11n (HT20), 802.11ac (VHT20), 802.11ax (HE20): 25 802.11n (HT40), 802.11ac (VHT40), 802.11ax (HE40): 12 802.11ac (VHT80), 802.11ax (HE80): 6 802.11ac (VHT160), 802.11ax (HE160): 2
Output Power	CDD Mode: 5.18 GHz ~ 5.25 GHz : 638.625 mW (28.05 dBm) 5.26 GHz ~ 5.32 GHz : 230.383 mW (23.62 dBm) 5.5 GHz ~ 5.72 GHz : 236.759 mW (23.74 dBm) 5.745 GHz ~ 5.825 GHz : 967.428 mW (29.86 dBm) Beamforming Mode: 5.18 GHz ~ 5.25 GHz : 412.712 mW (26.16 dBm) 5.26 GHz ~ 5.32 GHz : 105.576 mW (23.74 dBm) 5.5 GHz ~ 5.72 GHz : 106.252 mW (20.26 dBm) 5.745 GHz ~ 5.825 GHz : 422.769 mW (26.26 dBm)
EUT Category	Indoor Access Point

Note:

1. Simultaneously transmission condition.

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

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

2. The EUT has below model names which are identical to each other in all aspects except for the following table:

Product Name	Model Name	Description
GPON	UBN2310	For marketing
GPON	GR140IG	

Note: From the above models, model: **UBN2310** was selected as representative model for the test and its data was recorded in this report.

3. The EUT uses following accessories.

AC Adapter		
Brand	Model	Specification
MOSO	MS-V2000R120-024Q0-US	AC Input : 100-240V~ 50/60Hz, 0.7A DC Output : 12.0V, 2.0A DC Output Cable : Non-shielded, without core. 1.8M
Fiber Cable		
Brand	Model	Specification
ETC	MFOA10010-B3	Signal Line : 1550mm

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.

Antenna NO.	RF Chain NO.	Brand	Model	Antenna Net Gain(dBi)	Frequency range	Antenna Type	Connector Type
1	2.4G chain 0 / 5G chain 3	Whayu	UBN2310	3.14	2.4~2.4835GHz	Monopole	ipex(MHF)
				3.77	5.15~5.25GHz		
				3.86	5.25~5.53GHz		
				3.94	5.47~5.725GHz		
				3.84	5.725~5.85GHz		
2	2.4G chain 1 / 5G chain 2	Whayu	UBN2310	3.10	2.4~2.4835GHz	Dipole	ipex(MHF)
				3.80	5.15~5.25GHz		
				3.88	5.25~5.53GHz		
				3.91	5.47~5.725GHz		
				3.87	5.725~5.85GHz		
3	5G chain 1	Whayu	UBN2310	3.38	5.15~5.25GHz	Dipole	ipex(MHF)
				3.34	5.25~5.53GHz		
				3.45	5.47~5.725GHz		
				3.44	5.725~5.85GHz		
4	5G chain 0	Whayu	UBN2310	3.42	5.15~5.25GHz	Dipole	ipex(MHF)
				3.38	5.25~5.53GHz		
				3.46	5.47~5.725GHz		
				3.46	5.725~5.85GHz		

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

2. The EUT incorporates a MIMO function:

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

Note:

- All of modulation mode support beamforming function except 802.11a modulation mode.
- The EUT support Beamforming and CDD mode, therefore both mode were investigated and the worst case scenario was identified. The worst case data were presented in test report.
- 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, 160MHz) and 802.11ax mode for 20 MHz (40 MHz, 80 MHz, 160MHz), therefore the manufacturer will control the power for 802.11n/ac mode is the same as the 802.11ax or more lower than it and investigated worst case to representative mode in test report.

3.3 Channel List

FOR 5180 ~ 5320 MHz

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

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

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

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

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

Channel	Frequency	Channel	Frequency
42	5210 MHz	58	5290 MHz

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

Channel	Frequency
50	5250 MHz

FOR 5500 ~ 5720 MHz

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

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

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

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

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

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

1 channels are provided for 802.11ac (VHT160), 802.11ax (HE160):

Channel	Frequency
114	5570 MHz

FOR 5745 ~ 5825 MHz:

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

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

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

Channel	Frequency	Channel	Frequency
151	5755 MHz	159	5795 MHz

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

Channel	Frequency
155	5775 MHz

3.4 Test Mode Applicability and Tested Channel Detail

Pre-Scan:	1. Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
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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
	802.11ax (HE160)	CDD	50, 114	BPSK	MCS0
RF Output Power	802.11a	CDD	36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165	BPSK	6Mb/s
	802.11ax (HE20)	CDD & Beamforming	36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165	BPSK	MCS0
	802.11ax (HE40)	CDD & Beamforming	38, 46, 54, 62, 102, 110, 134, 142, 151, 159	BPSK	MCS0
	802.11ax (HE80)	CDD & Beamforming	42, 58, 106, 122, 138, 155	BPSK	MCS0
	802.11ax (HE160)	CDD & Beamforming	50, 114	BPSK	MCS0
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
	802.11ax (HE160)	CDD	50, 114	BPSK	MCS0

6 dB Bandwidth	802.11a	CDD	144, 149, 157, 165	BPSK	6Mb/s
	802.11ax (HE20)	CDD	144, 149, 157, 165	BPSK	MCS0
	802.11ax (HE40)	CDD	142, 151, 159	BPSK	MCS0
	802.11ax (HE80)	CDD	138, 155	BPSK	MCS0
Occupied Bandwidth	802.11a	CDD	36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165	BPSK	6Mb/s
	802.11ax (HE20)	CDD	36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165	BPSK	MCS0
	802.11ax (HE40)	CDD	38, 46, 54, 62, 102, 110, 134, 142, 151, 159	BPSK	MCS0
	802.11ax (HE80)	CDD	42, 58, 106, 122, 138, 155	BPSK	MCS0
	802.11ax (HE160)	CDD	50, 114	BPSK	MCS0
Frequency Stability	802.11a	-	36	un-modulation	-
AC Power Conducted Emissions	802.11ax (HE40)	CDD	151	BPSK	MCS0
Unwanted Emissions below 1 GHz	802.11ax (HE40)	CDD	151	BPSK	MCS0
Unwanted Emissions above 1 GHz	802.11a	CDD	36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165	BPSK	6Mb/s
	802.11ax (HE20)	CDD	36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165	BPSK	MCS0
	802.11ax (HE40)	CDD	38, 46, 54, 62, 102, 110, 134, 142, 151, 159	BPSK	MCS0
	802.11ax (HE80)	CDD	42, 58, 106, 122, 138, 155	BPSK	MCS0
	802.11ax (HE160)	CDD	50, 114	BPSK	MCS0
Note: Partial RU (resource unit) reduction mechanisms are not supported.					

3.5 Duty Cycle of Test Signal

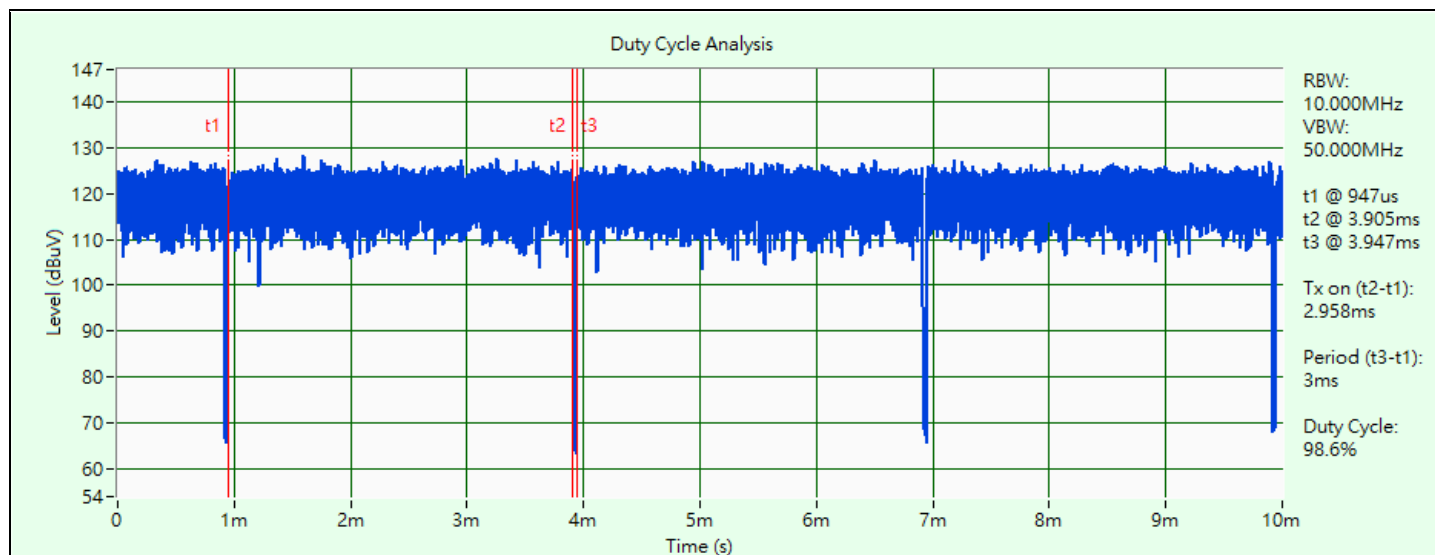
802.11a: Duty cycle = 2.958 ms / 3 ms x 100% = 98.6%

802.11ax (HE20): Duty cycle = 2.264 ms / 2.307 ms x 100% = 98.1%

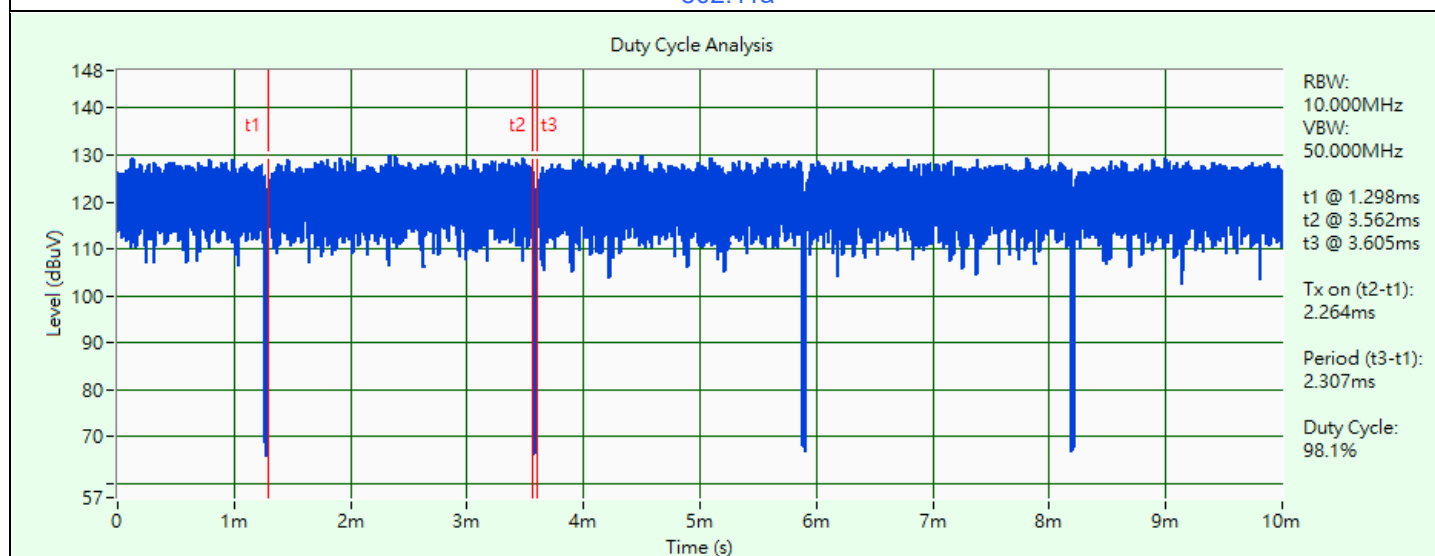
802.11ax (HE40): Duty cycle = 2.356 ms / 2.391 ms x 100% = 98.5%

802.11ax (HE80): Duty cycle = 2.434 ms / 2.471 ms x 100% = 98.5%

802.11ax (HE160): Duty cycle = 1.623 ms / 1.652 ms x 100% = 98.2%

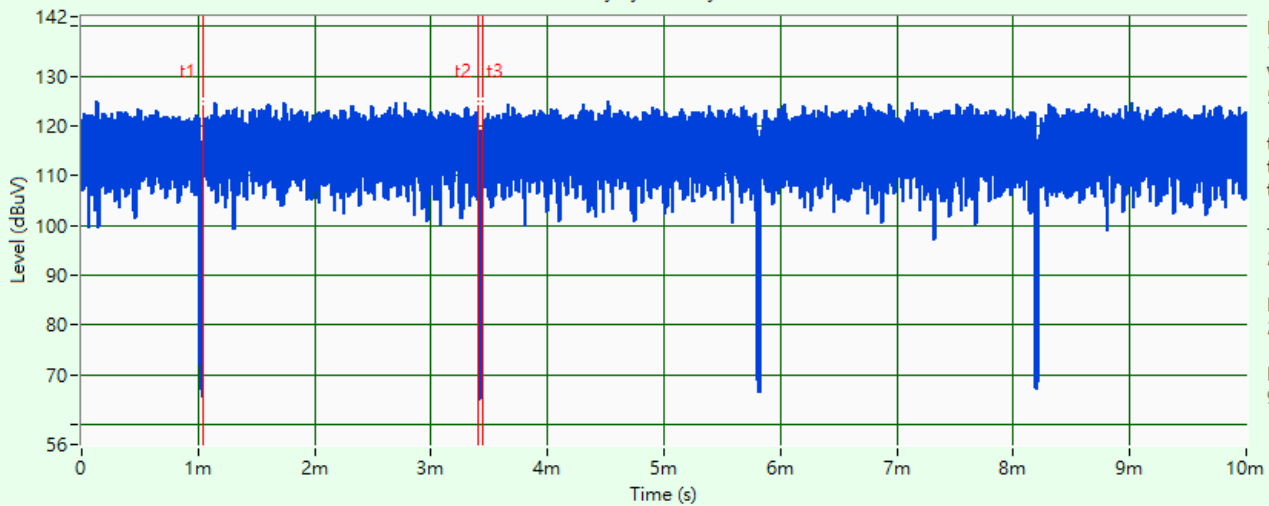


802.11a



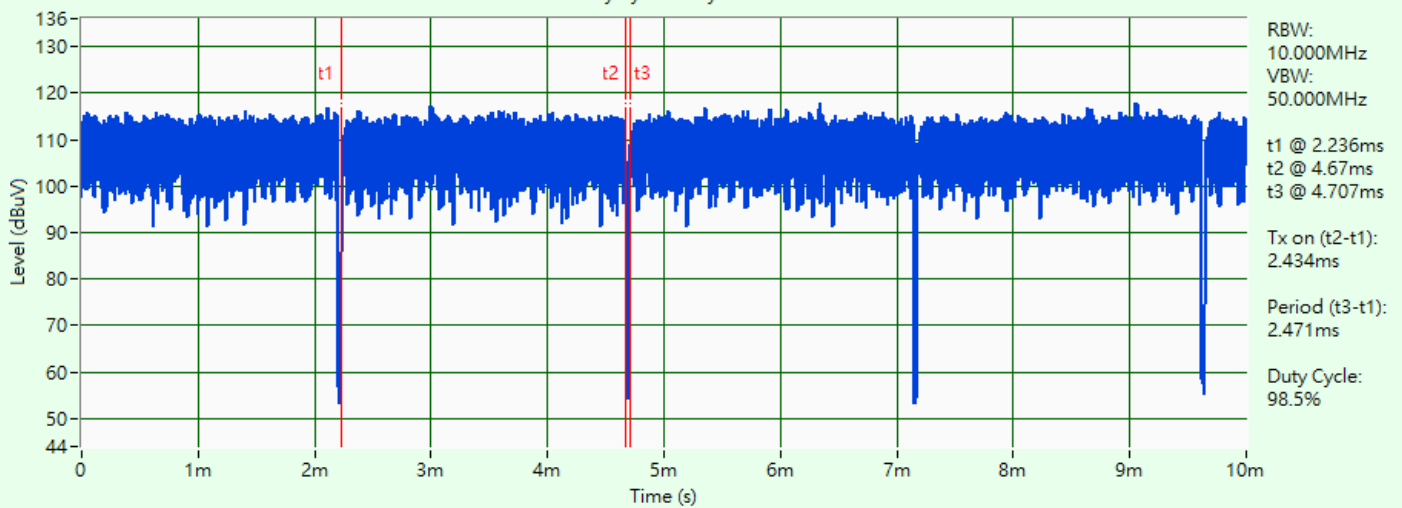
802.11ax (HE20)

Duty Cycle Analysis



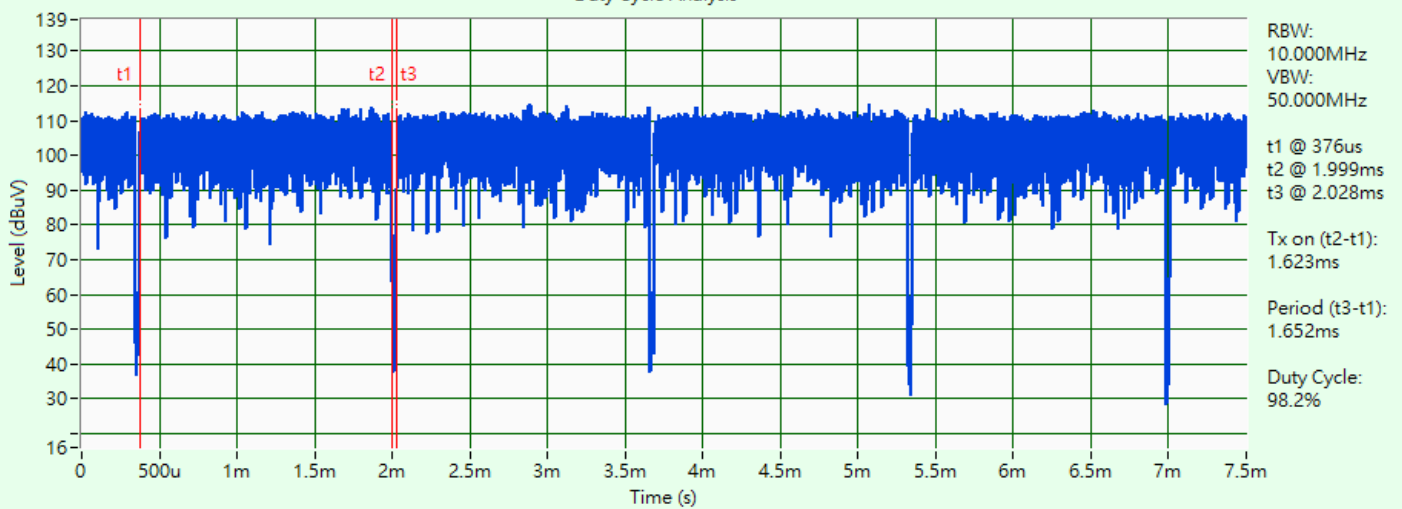
802.11ax (HE40)

Duty Cycle Analysis



802.11ax (HE80)

Duty Cycle Analysis

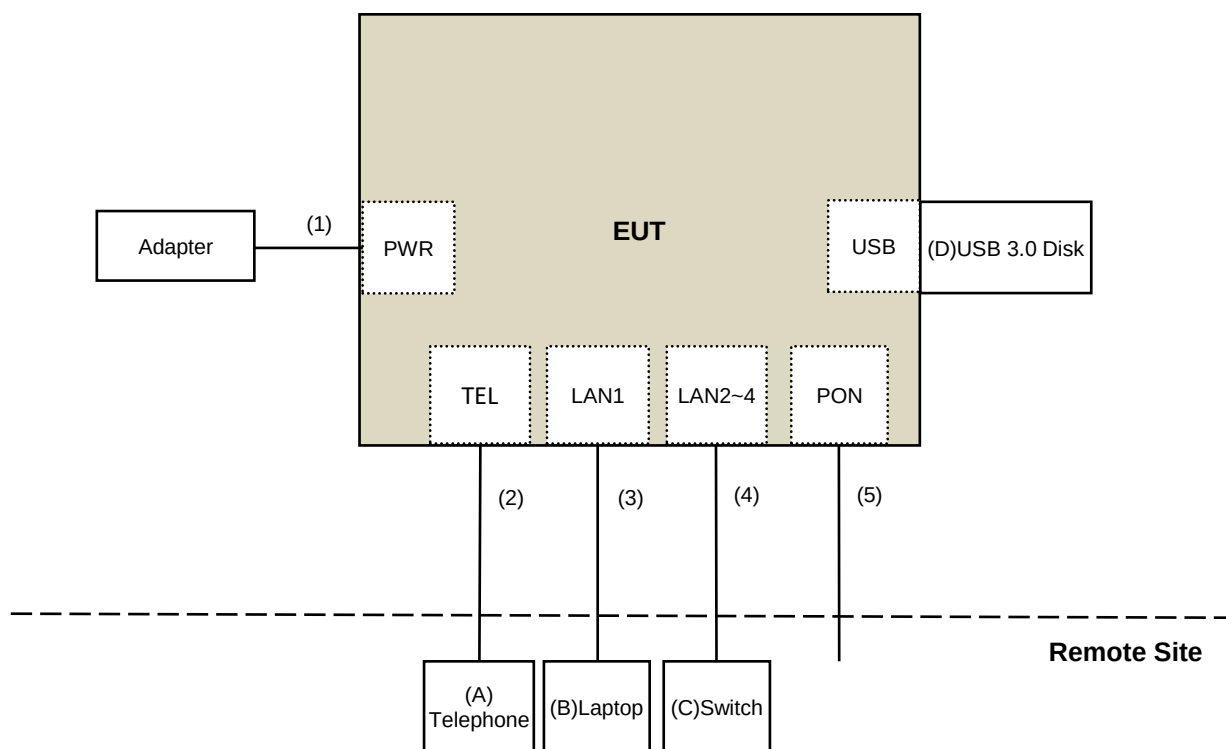


802.11ax (HE160)

3.6 Test Program Used and Operation Descriptions

Controlling software (Wi-Fi:accessMTool_REL_3_1_0_1) has been activated to set the EUT under transmission condition continuously at specific channel frequency.

3.7 Connection Diagram of EUT and Peripheral Devices



3.8 Configuration of Peripheral Devices and Cable Connections

ID	Product	Brand	Model No.	Serial No.	FCC ID	Remarks
A	Telephone	Romeo	TE-812	97285638	N/A	Provided by Lab
B	Laptop	Lenovo	20U5S01X00 L14	PF-1ANPYA	N/A	Provided by Lab
C	Switch	D-Link	DGS-1005D	DR8WC92000523	N/A	Provided by Lab
D	USB 3.0 Disk	SanDisk	BM181225896Z	N/A	N/A	Provided by Lab

ID	Cable Descriptions	Qty.	Length (m)	Shielding (Yes/No)	Cores (Qty.)	Remarks
1	DC Cable	1	1.8	No	0	Supplied by applicant
2	RJ-11 Cable	1	10	No	0	Provided by Lab
3	RJ-45 Cable	1	10	No	0	Provided by Lab
4	RJ-45 Cable	3	10	No	0	Provided by Lab
5	Fiber Cable	1	10	No	0	Provided by Lab

4 Test Instruments

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

4.1 26 dB Bandwidth

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Fixed Attenuator Woken	MDCS18N-10	MDCS18N-10-01	2023/3/27	2024/3/26
MXA Signal Analyzer Keysight	N9020B	MY60112409	2023/2/18	2024/2/17
Software	ADT_RF Test Software V6.6.5.4	N/A	N/A	N/A

Notes:

1. The test was performed in Oven room 2.
2. Tested Date: 2023/6/5

4.2 RF Output Power

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Fixed Attenuator Woken	MDCS18N-10	MDCS18N-10-01	2023/3/27	2024/3/26
MXA Signal Analyzer Keysight	N9020B	MY60112409	2023/2/18	2024/2/17
Power Meter Anritsu	ML2495A	1529002	2022/6/22	2023/6/21
Pulse Power Sensor Anritsu	MA2411B	1726434	2022/6/22	2023/6/21
Software	ADT_RF Test Software V6.6.5.4	N/A	N/A	N/A

Notes:

1. The test was performed in Oven room 2.
2. Tested Date: 2023/6/5

4.3 Power Spectral Density

Refer to section 4.1 to get information of the instruments.

4.4 6 dB Bandwidth

Refer to section 4.1 to get information of the instruments.

4.5 Occupied Bandwidth

Refer to section 4.1 to get information of the instruments.

4.6 Frequency Stability

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
AC Power Source GOOD WILL	6905S	1991551	N/A	N/A
Fixed Attenuator Woken	MDCS18N-10	MDCS18N-10-01	2023/3/27	2024/3/26
MXA Signal Analyzer Keysight	N9020B	MY60112409	2023/2/18	2024/2/17
Software	ADT_RF Test Software V6.6.5.4	N/A	N/A	N/A
Temperature & Humidity Chamber Giant Force	GTH-150-40-SP-AR	MAA0812-008	2022/12/26	2023/12/25
True RMS Clamp Meter Fluke	325	31130711WS	2022/6/9	2023/6/8

Notes:

1. The test was performed in Oven room 2.
2. Tested Date: 2023/6/5

4.7 AC Power Conducted Emissions

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

Notes:

1. The test was performed in Conduction 1
2. Tested Date: 2023/5/31

4.8 Unwanted Emissions below 1 GHz

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Bi_Log Antenna Schwarzbeck	VULB 9168	9168-406	2022/10/21	2023/10/20
Boresight Antenna Tower & Turn Table Max-Full	MF-7802BS	MF780208530	N/A	N/A
Fixed Attenuator Mini-Circuits	UNAT-5+	PAD-ATT5-03	2022/12/28	2023/12/27
Loop Antenna Electro-Metrics	EM-6879	264	2023/2/21	2024/2/20
MXE EMI Receiver Keysight	N9038A	MY54450088	2022/7/11	2023/7/10
Preamplifier Agilent	8447D	2944A10636	2023/3/12	2024/3/11
Preamplifier EMCI	EMC330N	980701	2023/2/18	2024/2/17
PXA Signal Analyzer Keysight	N9030B	MY57142938	2023/4/6	2024/4/5
RF Coaxial Cable COMMATE/PEWC	8D	966-4-1	2023/2/18	2024/2/17
		966-4-2	2023/2/18	2024/2/17
		966-4-3	2023/2/18	2024/2/17
RF Coaxial Cable JYEBO	5D-FB	LOOPCAB-001	2022/12/19	2023/12/18
		LOOPCAB-002	2022/12/19	2023/12/18
Software	ADT_Radiated_V8.7.08	N/A	N/A	N/A

Notes:

1. The test was performed in 966 Chamber No. 4.
2. Tested Date: 2023/5/25

4.9 Unwanted Emissions above 1 GHz

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Boresight Antenna Tower & Turn Table Max-Full	MF-7802BS	MF780208530	N/A	N/A
Horn Antenna Schwarzbeck	BBHA 9120D	9120D-783	2022/11/13	2023/11/12
	BBHA 9170	9170-739	2022/11/13	2023/11/12
Preamplifier EMCI	EMC12630SE	980688	2022/10/4	2023/10/3
	EMC184045SE	980387	2022/12/28	2023/12/27
PXA Signal Analyzer Keysight	N9030B	MY57142938	2023/4/6	2024/4/5
RF Coaxial Cable EMCI	EMC-KM-KM-4000	200214	2023/2/20	2024/2/19
	EMC102-KM-KM-1200	160924	2022/12/28	2023/12/27
	EMC104-SM-SM-1200	160922	2022/12/15	2023/12/14
	EMC104-SM-SM-2000	180502	2023/3/27	2024/3/26
	EMC104-SM-SM-6000	210704	2022/11/4	2023/11/3
Software	ADT_Radiated_V8.7.08	N/A	N/A	N/A

Notes:

1. The test was performed in 966 Chamber No. 4.
2. Tested Date: 2023/5/10 ~ 2023/5/31

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 Frequency Stability

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

5.7 AC Power Conducted Emissions

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

Notes:

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

5.8 Unwanted Emissions below 1 GHz

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

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

Notes:

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

5.9 Unwanted Emissions above 1 GHz

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

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

Notes:

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

Limits of unwanted emission out of the restricted bands

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

For transmitters operating in the 5.15-5.25 GHz band:

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

For transmitters operating in the 5.25-5.35 GHz band:

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

For transmitters operating in the 5.47-5.725 GHz band:

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

For transmitters operating in the 5.725-5.850 GHz band:

Applicable To	EIRP Limit	Equivalent Field Strength at 3 m
15.407(b)(4)(i)	PK: -27 (dBm/MHz) ^{*1}	PK: 68.2 (dBμV/m) ^{*1}
	PK: 10 (dBm/MHz) ^{*2}	PK: 105.2 (dBμV/m) ^{*2}
	PK: 15.6 (dBm/MHz) ^{*3}	PK: 110.8 (dBμV/m) ^{*3}
	PK: 27 (dBm/MHz) ^{*4}	PK: 122.2 (dBμV/m) ^{*4}

^{*1} beyond 75 MHz or more above of the band edge.

^{*2} below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above.

^{*3} below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above.

^{*4} from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

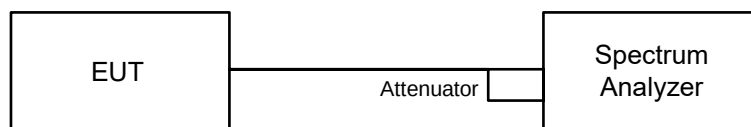
Note: The following formula is used to convert the equipment isotropic radiated power (eirp) to field strength:

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

6 Test Arrangements

6.1 26 dB Bandwidth

6.1.1 Test Setup



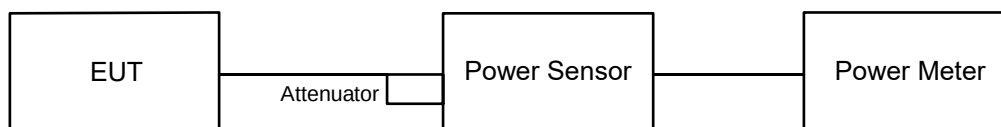
6.1.2 Test Procedure

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

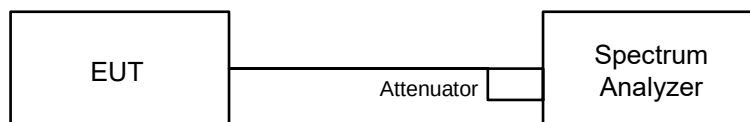
6.2 RF Output Power

6.2.1 Test Setup

Conducted Measurement Method



For channel straddling:



6.2.2 Test Procedure

Conducted Measurement Method

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

For channel straddling:

Method SA-1

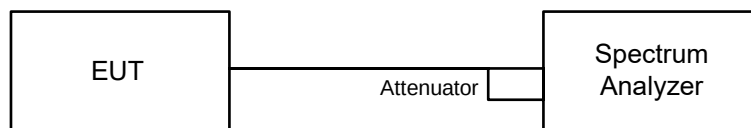
- Set span to encompass the entire emission bandwidth (EBW) of the signal.
- Set RBW = 1 MHz, Set VBW $\geq$ 3 MHz, Detector = RMS
- Sweep points $\geq [2 \times \text{span} / \text{RBW}]$. (This gives bin-to-bin spacing $\leq \text{RBW} / 2$, so that narrowband signals are not lost between frequency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

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

6.3 Power Spectral Density

6.3.1 Test Setup

Conducted Measurement Method



6.3.2 Test Procedure

Conducted Measurement Method

For specified measurement bandwidth 1 MHz:

Method SA-1

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

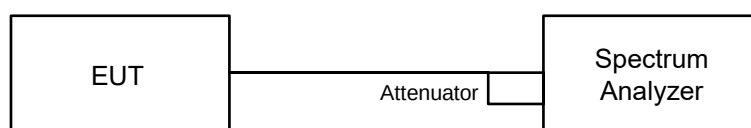
For specified measurement bandwidth 500 kHz:

Method SA-1

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

6.4 6 dB Bandwidth

6.4.1 Test Setup

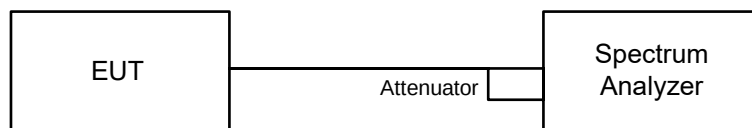


6.4.2 Test Procedure

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

6.5 Occupied Bandwidth

6.5.1 Test Setup

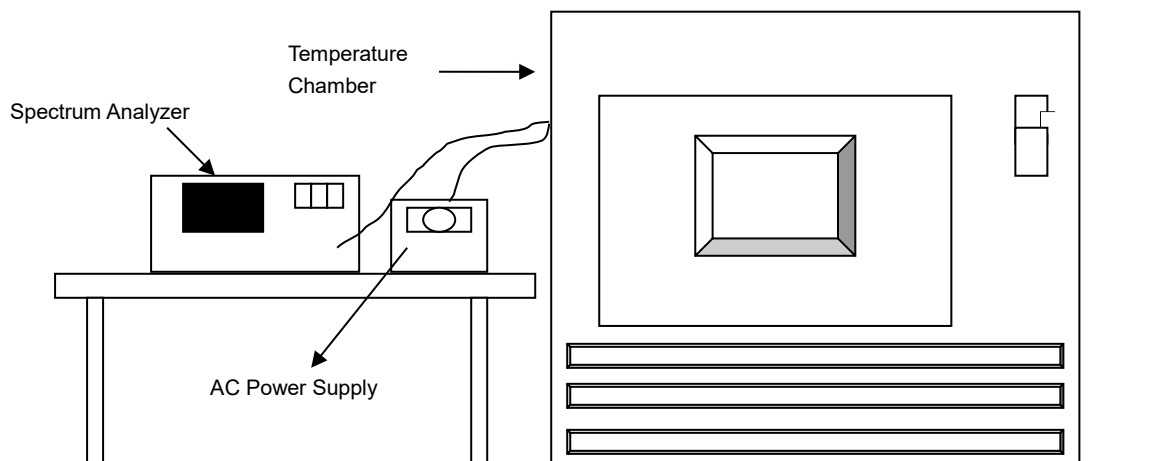


6.5.2 Test Procedure

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

6.6 Frequency Stability

6.6.1 Test Setup

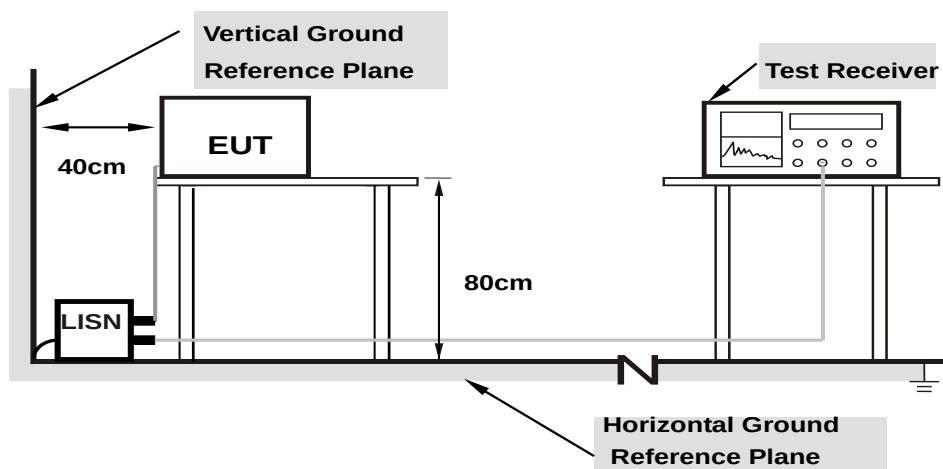


6.6.2 Test Procedure

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

6.7 AC Power Conducted Emissions

6.7.1 Test Setup



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

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

6.7.2 Test Procedure

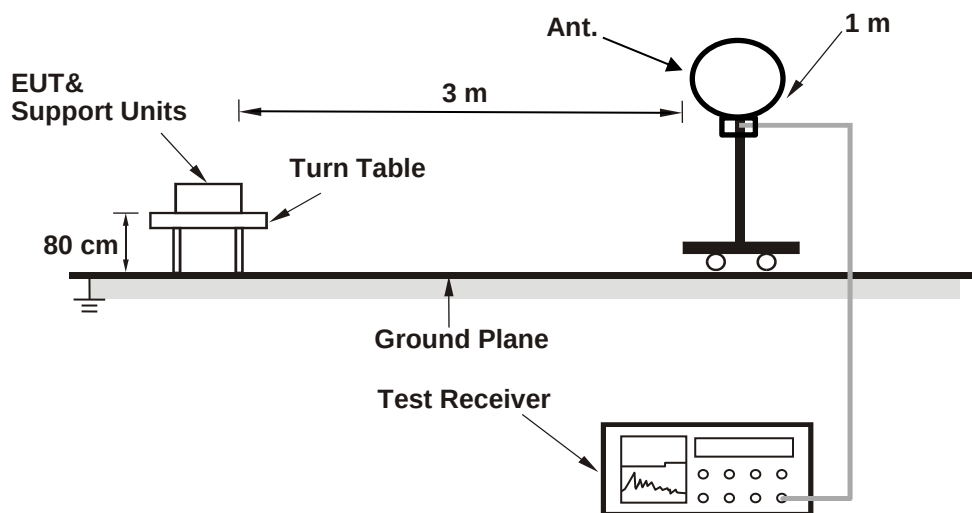
- The EUT was placed on a 0.8 meter to the top of table and placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The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

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

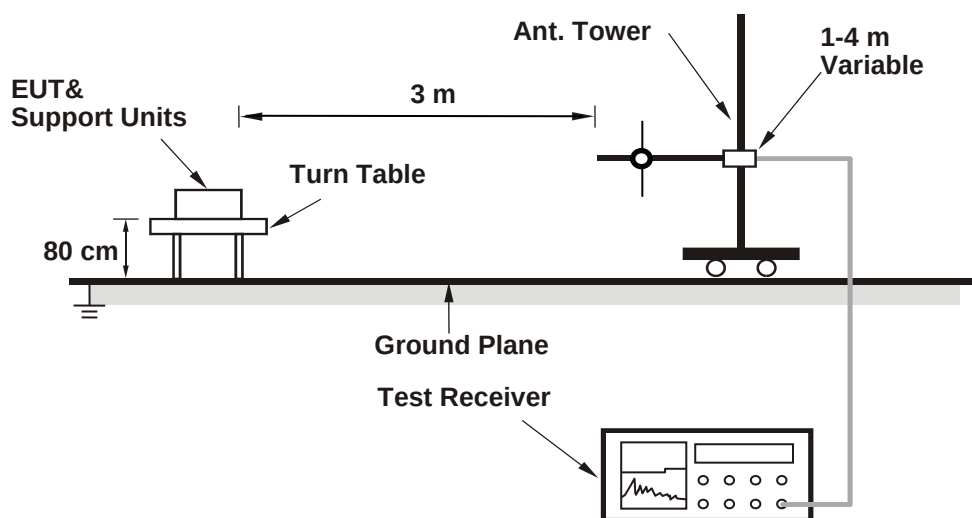
6.8 Unwanted Emissions below 1 GHz

6.8.1 Test Setup

For Radiated emission below 30 MHz



For Radiated emission above 30 MHz



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

6.8.2 Test Procedure

For Radiated emission below 30 MHz

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

Notes:

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

For Radiated emission above 30 MHz

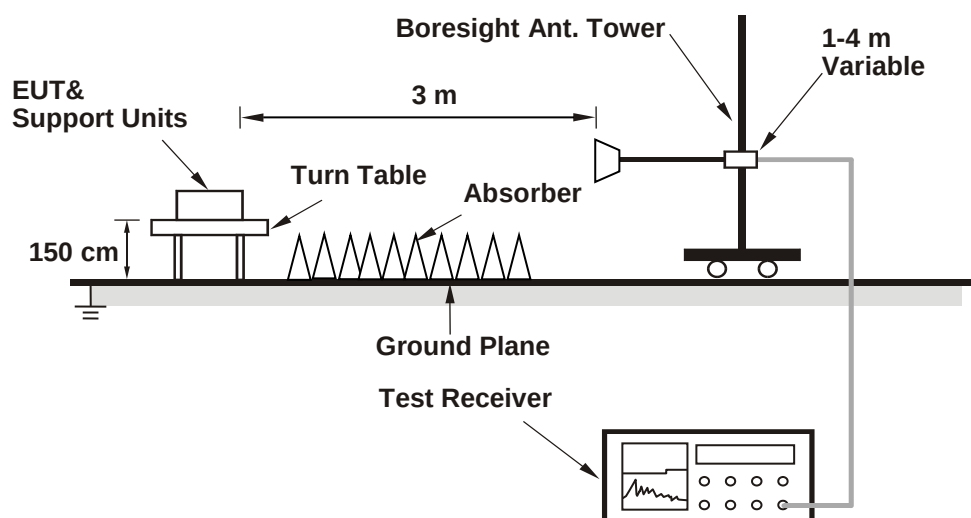
- The EUT was placed on the top of a rotating table 0.8 meters above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top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

Notes:

- The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120 kHz for Quasi-peak detection (QP), Average detection (AV), Peak detection (PK) at frequency (30MHz to 1 GHz).
- All modes of operation were investigated and the worst-case emissions are reported.

6.9 Unwanted Emissions above 1 GHz

6.9.1 Test Setup



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

6.9.2 Test Procedure

- The EUT was placed on the top of a rotating table 1.5 meters above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- The test-receiver system was set to peak and average detects function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz. If the peak reading value also meets average limit, measurement with the average detector is unnecessary.

Notes:

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

7 Test Results of Test Item

7.1 26 dB Bandwidth

Input Power:	120 Vac, 60 Hz	Environmental Conditions:	24°C, 64% RH	Tested By:	Katina Lu
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802.11a

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
52	5260	21.89	21.83	21.70	21.69
60	5300	21.87	21.77	21.88	21.68
64	5320	23.53	23.09	24.59	23.60
100	5500	23.90	23.22	23.84	23.11
116	5580	21.99	21.69	21.83	21.81
140	5700	21.80	21.80	21.76	21.82
144 (U-NII-2C)	5720	15.87	15.82	15.90	15.86
144 (U-NII-3)	5720	5.90	5.83	5.90	5.84

Determined Output Power Limit			
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)
52	5260	21.69	24.36 > 24
60	5300	21.68	24.36 > 24
64	5320	23.09	24.63 > 24
100	5500	23.11	24.63 > 24
116	5580	21.69	24.36 > 24
140	5700	21.76	24.37 > 24
144 (U-NII-2C)	5720	15.82	22.99 < 24

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

802.11ax (HE20)

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
52	5260	21.95	21.99	22.02	21.75
60	5300	21.90	21.86	22.02	21.86
64	5320	24.91	25.54	23.02	25.37
100	5500	27.28	23.71	23.95	23.83
116	5580	22.13	21.74	21.88	21.99
140	5700	21.97	21.70	21.90	21.81
144 (U-NII-2C)	5720	16.01	15.88	16.01	15.91
144 (U-NII-3)	5720	6.07	5.91	6.03	6.03

Determined Output Power Limit					
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)		
52	5260	21.75	24.37	>	24
60	5300	21.86	24.39	>	24
64	5320	23.02	24.62	>	24
100	5500	23.71	24.74	>	24
116	5580	21.74	24.37	>	24
140	5700	21.70	24.36	>	24
144 (U-NII-2C)	5720	15.88	23	<	24

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

802.11ax (HE40)

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
54	5270	41.87	41.86	41.63	41.72
62	5310	46.27	43.22	50.12	45.70
102	5510	53.47	51.30	49.14	43.08
110	5550	41.96	41.89	41.54	41.70
134	5670	41.99	41.86	41.90	41.92
142 (U-NII-2C)	5710	35.85	35.60	35.91	35.88
142 (U-NII-3)	5710	5.85	5.62	5.90	6.01

Determined Output Power Limit			
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)
54	5270	41.63	27.19 > 24
62	5310	43.22	27.35 > 24
102	5510	43.08	27.34 > 24
110	5550	41.54	27.18 > 24
134	5670	41.86	27.21 > 24
142 (U-NII-2C)	5710	35.60	26.51 > 24

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

802.11ax (HE80)

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
58	5290	84.84	88.64	85.43	84.96
106	5530	85.12	86.75	83.48	83.80
122	5610	82.95	83.25	83.00	82.70
138 (U-NII-2C)	5690	76.12	76.28	76.41	76.28
138 (U-NII-3)	5690	6.34	6.75	6.31	6.35

Determined Output Power Limit			
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)
58	5290	84.84	30.28 > 24
106	5530	83.48	30.21 > 24
122	5610	82.70	30.17 > 24
138 (U-NII-2C)	5690	76.12	29.81 > 24

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

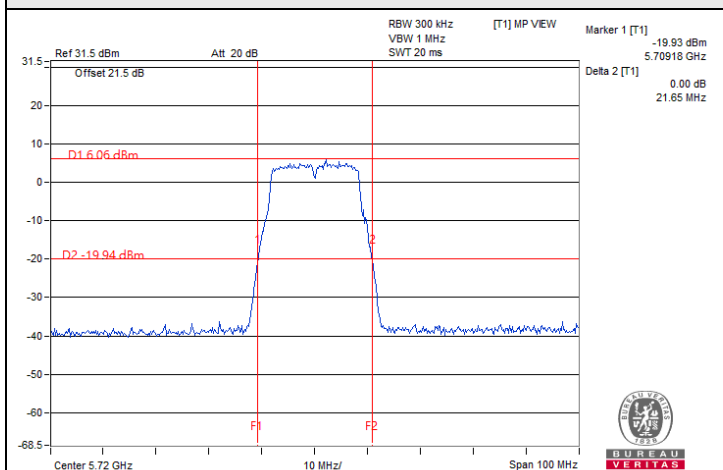
802.11ax (HE160)

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
50 (U-NII-1)	5250	83.35	83.01	83.73	83.24
50 (U-NII-2A)	5250	84.95	84.43	84.41	84.13
114	5570	184.03	183.44	183.75	183.54

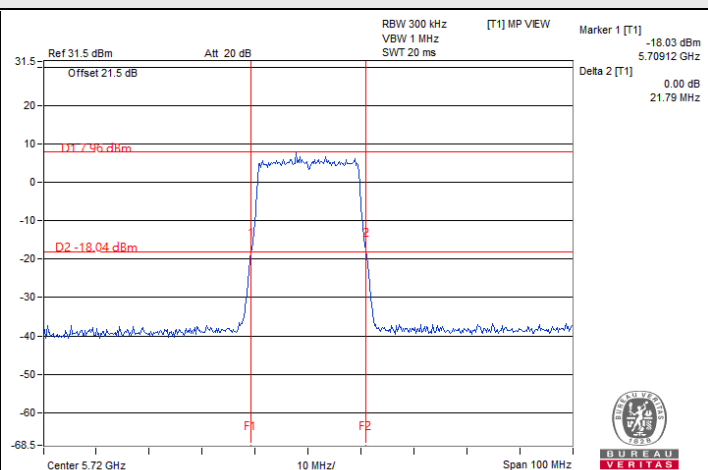
Determined Output Power Limit			
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)
50 (U-NII-2A)	5250	84.13	30.24 > 24
114	5570	183.44	33.63 > 24

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

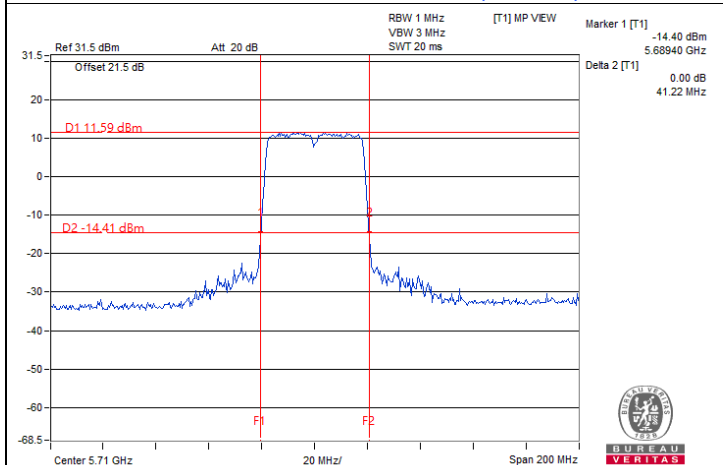
Spectrum Plot of Minimum Value



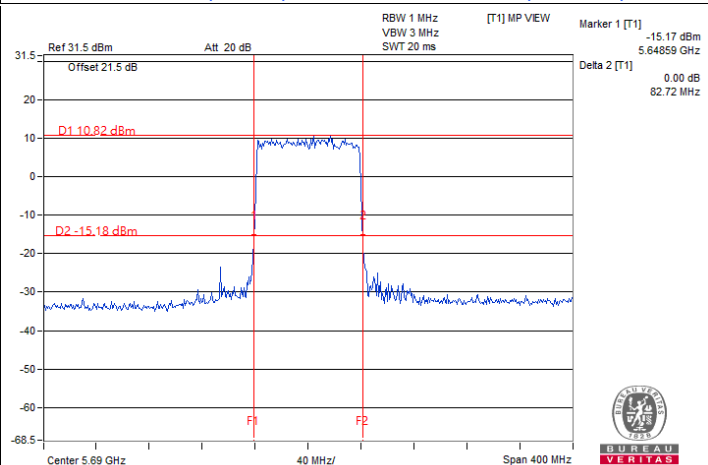
802.11a / Chain 1 : CH 144 (U-NII-3)



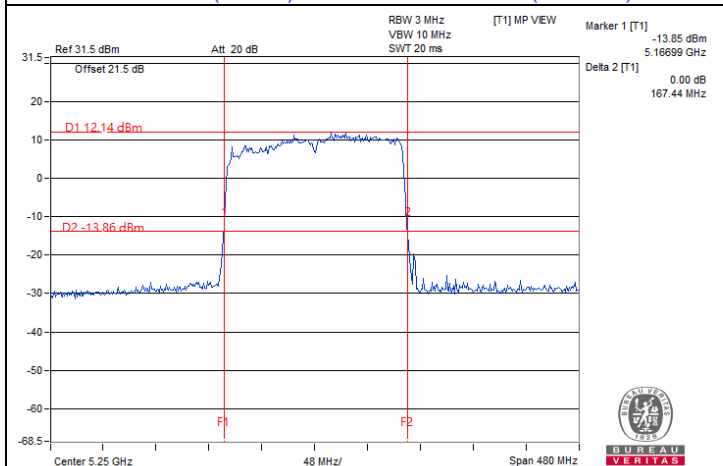
802.11ax (HE20) / Chain 1 : CH 144 (U-NII-3)



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



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



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

Notes:

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

7.2 RF Output Power

Input Power:	120 Vac, 60 Hz	Environmental Conditions:	24°C, 64% RH	Tested By:	Katina Lu
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802.11a CDD

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
36	5180	19.83	20.35	20.38	20.30	420.85	26.24	30	Pass
40	5200	19.96	20.49	20.39	20.38	429.567	26.33	30	Pass
48	5240	19.97	20.35	20.26	20.63	429.485	26.33	30	Pass
52	5260	14.01	14.45	14.05	14.13	104.33	20.18	24	Pass
60	5300	13.87	14.47	14.09	14.34	105.177	20.22	24	Pass
64	5320	13.86	14.39	14.31	14.37	106.131	20.26	24	Pass
100	5500	13.89	14.28	14.33	14.39	105.863	20.25	24	Pass
116	5580	13.55	14.22	14.02	14.30	101.221	20.05	24	Pass
140	5700	14.20	14.36	14.20	14.22	106.319	20.27	24	Pass
*144 (U-NII-2C)	5720	12.87	12.76	12.47	12.59	74.06	18.70	22.99	Pass
*144 (U-NII-3)	5720	6.65	6.88	6.47	6.46	18.361	12.64	30	Pass
149	5745	23.83	23.89	23.72	23.90	967.428	29.86	30	Pass
157	5785	23.61	23.76	23.68	23.77	938.877	29.73	30	Pass
165	5825	23.70	23.71	23.83	23.88	955.275	29.80	30	Pass

Notes:

- * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.
- Directional gain is the maximum gain of antennas.
- For U-NII-1, the directional gain is 3.8 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the directional gain is 3.88 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the directional gain is 3.94 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the directional gain is 3.87 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11ax (HE20) CDD

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
36	5180	20.21	20.40	20.66	20.57	445.04	26.48	30	Pass
40	5200	20.24	20.75	20.52	20.82	458.033	26.61	30	Pass
48	5240	20.29	20.75	20.58	20.90	463.07	26.66	30	Pass
52	5260	14.40	14.99	14.33	14.69	115.638	20.63	24	Pass
60	5300	14.03	14.68	14.31	14.78	111.708	20.48	24	Pass
64	5320	14.15	14.78	14.52	14.63	113.417	20.55	24	Pass
100	5500	13.91	14.42	14.53	14.74	110.437	20.43	24	Pass
116	5580	13.80	14.49	14.27	14.67	108.146	20.34	24	Pass
140	5700	13.94	14.52	14.16	14.33	106.252	20.26	24	Pass
*144 (U-NII-2C)	5720	13.15	12.74	12.65	12.94	77.534	18.89	23	Pass
*144 (U-NII-3)	5720	7.90	7.58	7.45	7.76	23.423	13.70	30	Pass
149	5745	23.85	23.70	23.76	23.85	957.429	29.81	30	Pass
157	5785	23.84	23.76	23.83	23.78	960.114	29.82	30	Pass
165	5825	23.79	23.85	23.89	23.81	967.335	29.86	30	Pass

Notes:

1. * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.
2. Directional gain is the maximum gain of antennas.
3. For U-NII-1, the directional gain is 3.8 dBi < 6 dBi, so the output power limit shall not be reduced.
4. For U-NII-2A, the directional gain is 3.88 dBi < 6 dBi, so the output power limit shall not be reduced.
5. For U-NII-2C, the directional gain is 3.94 dBi < 6 dBi, so the output power limit shall not be reduced.
6. For U-NII-3, the directional gain is 3.87 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11ax (HE40) CDD

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
38	5190	16.59	16.72	16.66	16.89	187.803	22.74	30	Pass
46	5230	21.61	22.16	21.72	22.57	638.625	28.05	30	Pass
54	5270	17.69	18.11	17.33	17.23	230.383	23.62	24	Pass
62	5310	17.04	17.22	17.01	16.66	199.884	23.01	24	Pass
102	5510	16.91	17.00	16.92	17.08	199.464	23.00	24	Pass
110	5550	17.34	17.36	17.34	17.88	224.227	23.51	24	Pass
134	5670	17.02	17.57	17.82	17.77	227.873	23.58	24	Pass
*142 (U-NII-2C)	5710	16.84	16.57	16.78	16.32	184.198	22.65	24	Pass
*142 (U-NII-3)	5710	7.13	6.32	7.20	6.74	19.418	12.88	30	Pass
151	5755	23.80	23.64	23.78	23.74	946.463	29.76	30	Pass
159	5795	23.74	23.70	23.80	23.69	944.782	29.75	30	Pass

Notes:

- * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.
- Directional gain is the maximum gain of antennas.
- For U-NII-1, the maximum gain is 3.8 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the maximum gain is 3.88 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the maximum gain is 3.94 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the maximum gain is 3.87 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11ax (HE80) CDD

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
42	5210	16.18	16.35	16.47	16.44	173.064	22.38	30	Pass
58	5290	16.17	16.24	16.55	16.53	173.636	22.40	24	Pass
106	5530	17.05	17.35	17.37	17.57	216.748	23.36	24	Pass
122	5610	17.64	17.84	17.42	17.97	236.759	23.74	24	Pass
*138 (U-NII-2C)	5690	17.04	16.76	16.73	16.24	187.177	22.72	24	Pass
*138 (U-NII-3)	5690	3.48	3.70	3.61	3.08	8.901	9.49	30	Pass
155	5775	23.37	23.55	23.44	23.61	894.15	29.51	30	Pass

Notes:

- * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.
- Directional gain is the maximum gain of antennas.
- For U-NII-1, the maximum gain is 3.8 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the maximum gain is 3.88 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the maximum gain is 3.94 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the maximum gain is 3.87 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11ax (HE160) CDD

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
*50 (U-NII-1)	5250	11.46	11.16	11.42	10.64	52.513	17.20	30	Pass
*50 (U-NII-2A)	5250	13.27	13.32	13.16	12.64	81.778	19.13	24	Pass
114	5570	15.37	15.49	15.71	15.69	144.142	21.59	24	Pass

Notes:

- * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.
- Directional gain is the maximum gain of antennas.
- For U-NII-1, the maximum gain is 3.8 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the maximum gain is 3.88 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the maximum gain is 3.94 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11ax (HE20) Beamforming

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
36	5180	19.81	20.00	20.22	20.04	401.841	26.04	26.38	Pass
40	5200	19.74	20.25	20.02	20.32	408.222	26.11	26.38	Pass
48	5240	19.79	20.25	20.08	20.40	412.712	26.16	26.38	Pass
52	5260	13.90	14.49	13.83	14.19	103.063	20.13	20.36	Pass
60	5300	13.53	14.18	13.81	14.28	99.56	19.98	20.36	Pass
64	5320	13.65	14.28	14.02	14.13	101.083	20.05	20.36	Pass
100	5500	13.41	13.92	14.03	14.24	98.427	19.93	20.29	Pass
116	5580	13.30	13.99	13.77	14.17	96.386	19.84	20.29	Pass
140	5700	13.94	14.52	14.16	14.33	106.252	20.26	20.29	Pass
*144 (U-NII-2C)	5720	13.15	12.74	12.65	12.94	77.534	18.89	19.29	Pass
*144 (U-NII-3)	5720	7.90	7.58	7.45	7.76	23.423	13.70	26.32	Pass
149	5745	20.10	19.95	20.01	20.10	403.744	26.06	26.32	Pass
157	5785	20.09	20.01	20.08	20.03	404.877	26.07	26.32	Pass
165	5825	20.04	20.10	20.14	20.06	407.922	26.11	26.32	Pass

Notes:

- * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.
- Directional gain = $10 \log[(10^{\text{Chain0/20}} + 10^{\text{Chain1/20}} + 10^{\text{Chain2/20}} + 10^{\text{Chain3/20}})^2 / 4]$
- For U-NII-1, the directional gain is 9.62 dBi > 6 dBi, so the output power limit shall be reduced to $30 - (9.62 - 6) = 26.38$ dBm.
- For U-NII-2A, the directional gain is 9.64 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit - (9.64 - 6)].
- For U-NII-2C, the directional gain is 9.71 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit - (9.71 - 6)].
- For U-NII-3, the directional gain is 9.68 dBi > 6 dBi, so the output power limit shall be reduced to $30 - (9.68 - 6) = 26.32$ dBm.

802.11ax (HE40) Beamforming

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
38	5190	16.59	16.72	16.66	16.89	187.803	22.74	26.38	Pass
46	5230	19.61	20.16	19.72	20.57	402.945	26.05	26.38	Pass
54	5270	14.19	14.61	13.83	13.73	102.908	20.12	20.36	Pass
62	5310	13.74	14.36	13.84	13.78	99.037	19.96	20.36	Pass
102	5510	13.57	14.00	13.70	14.21	97.675	19.90	20.29	Pass
110	5550	14.09	14.11	14.09	14.63	106.093	20.26	20.29	Pass
134	5670	13.52	14.07	14.32	14.27	101.787	20.08	20.29	Pass
*142 (U-NII-2C)	5710	14.34	14.07	14.28	13.82	103.582	20.15	20.29	Pass
*142 (U-NII-3)	5710	4.63	3.82	4.70	4.24	10.92	10.38	26.32	Pass
151	5755	20.30	20.14	20.28	20.24	422.769	26.26	26.32	Pass
159	5795	20.24	20.20	20.30	20.19	422.019	26.25	26.32	Pass

Notes:

- * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.
- Directional gain = $10 \log[(10^{\text{Chain0}/20} + 10^{\text{Chain1}/20} + 10^{\text{Chain2}/20} + 10^{\text{Chain3}/20})^2 / 4]$
- For U-NII-1, the directional gain is 9.62 dBi > 6 dBi, so the output power limit shall be reduced to $30 - (9.62 - 6) = 26.38$ dBm.
- For U-NII-2A, the directional gain is 9.64 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit - (9.64 - 6)].
- For U-NII-2C, the directional gain is 9.71 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit - (9.71 - 6)].
- For U-NII-3, the directional gain is 9.68 dBi > 6 dBi, so the output power limit shall be reduced to $30 - (9.68 - 6) = 26.32$ dBm.

802.11ax (HE80) Beamforming

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
42	5210	16.18	16.35	16.47	16.44	173.064	22.38	26.38	Pass
58	5290	13.85	14.29	14.31	14.39	105.576	20.24	20.36	Pass
106	5530	13.87	14.33	13.91	14.34	103.248	20.14	20.29	Pass
122	5610	14.14	14.34	13.92	14.47	105.756	20.24	20.29	Pass
*138 (U-NII-2C)	5690	14.34	14.06	14.03	13.54	100.52	20.02	20.29	Pass
*138 (U-NII-3)	5690	0.78	1.00	0.91	0.38	4.78	6.79	26.32	Pass
155	5775	19.87	20.05	19.94	20.11	399.402	26.01	26.32	Pass

Notes:

- * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.
- Directional gain = $10 \log[(10^{\text{Chain0}/20} + 10^{\text{Chain1}/20} + 10^{\text{Chain2}/20} + 10^{\text{Chain3}/20})^2 / 4]$
- For U-NII-1, the directional gain is 9.62 dBi > 6 dBi, so the output power limit shall be reduced to $30 - (9.62 - 6) = 26.38$ dBm.
- For U-NII-2A, the directional gain is 9.64 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(9.64-6)].
- For U-NII-2C, the directional gain is 9.71 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(9.71-6)].
- For U-NII-3, the directional gain is 9.68 dBi > 6 dBi, so the output power limit shall be reduced to $30 - (9.68 - 6) = 26.32$ dBm.

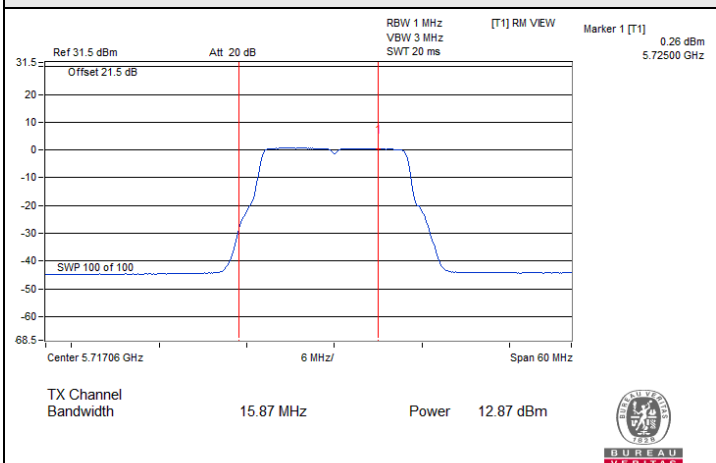
802.11ax (HE160) Beamforming

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
*50 (U-NII-1)	5250	11.46	11.16	11.42	10.64	52.513	17.20	26.38	Pass
*50 (U-NII-2A)	5250	13.27	13.32	13.16	12.64	81.778	19.13	20.36	Pass
114	5570	13.82	14.09	14.02	14.21	101.342	20.06	20.29	Pass

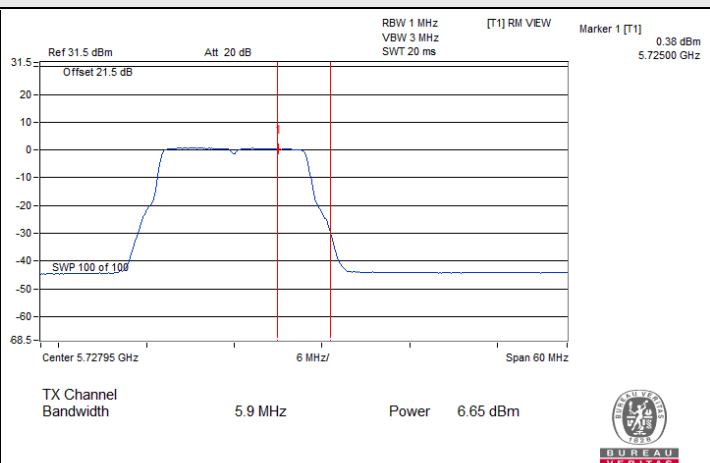
Notes:

- * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.
- Directional gain = $10 \log[(10^{\text{Chain0}/20} + 10^{\text{Chain1}/20} + 10^{\text{Chain2}/20} + 10^{\text{Chain3}/20})^2 / 4]$
- For U-NII-1, the directional gain is 9.62 dBi > 6 dBi, so the output power limit shall be reduced to $30 - (9.62 - 6) = 26.38$ dBm.
- For U-NII-2A, the directional gain is 9.64 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(9.64-6)].
- For U-NII-2C, the directional gain is 9.71 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(9.71-6)].

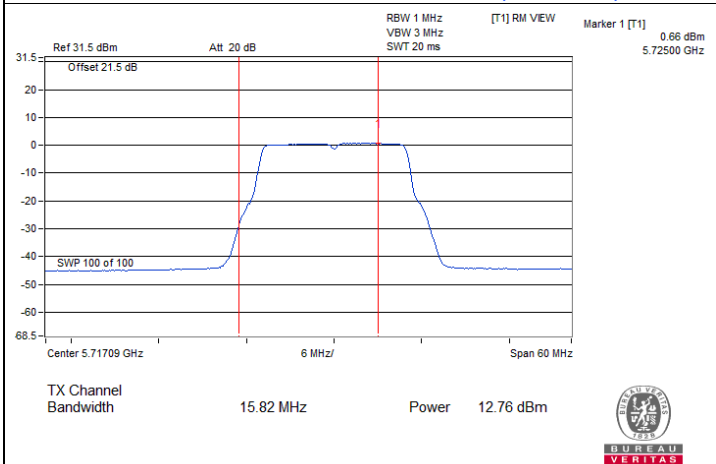
Spectrum Plot for channel straddling



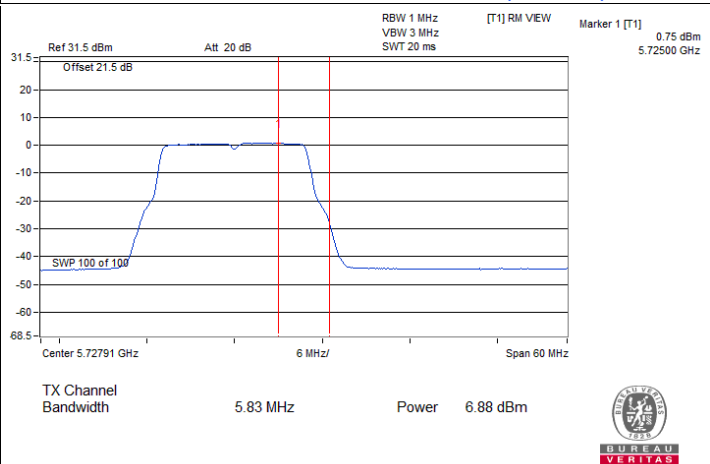
802.11a CDD / Chain 0 : CH 144 (U-NII-2C)



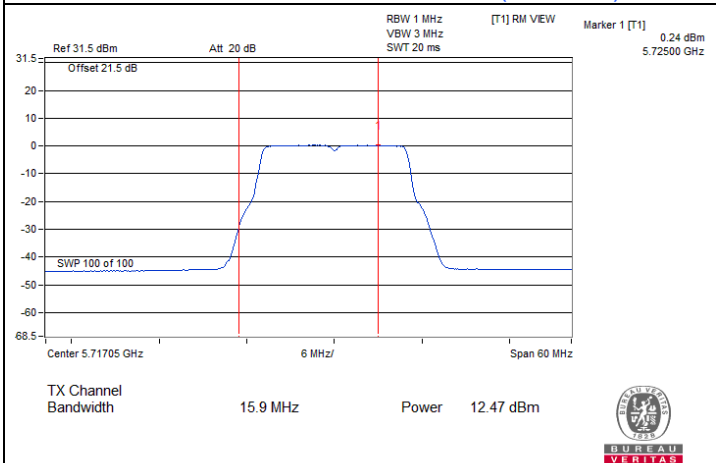
802.11a CDD / Chain 0 : CH 144 (U-NII-3)



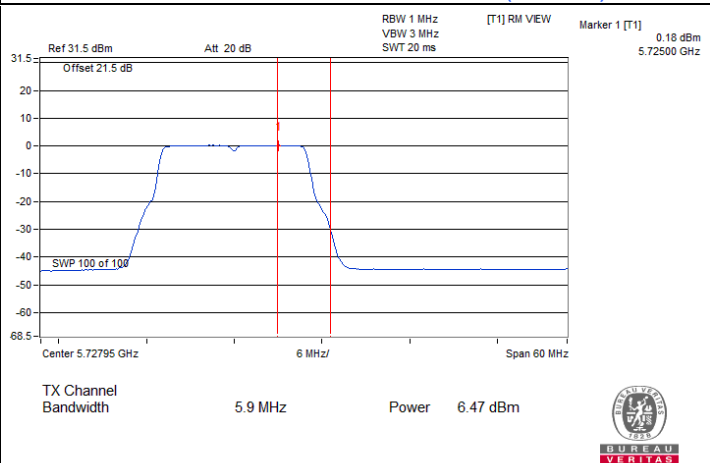
802.11a CDD / Chain 1 : CH 144 (U-NII-2C)



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

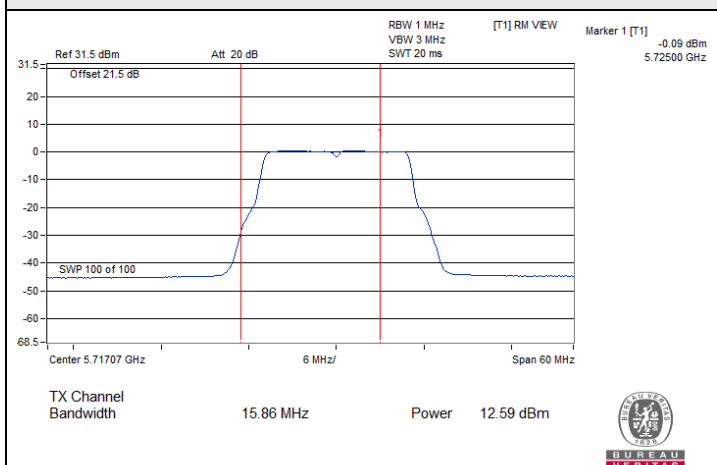


802.11a CDD / Chain 2 : CH 144 (U-NII-2C)

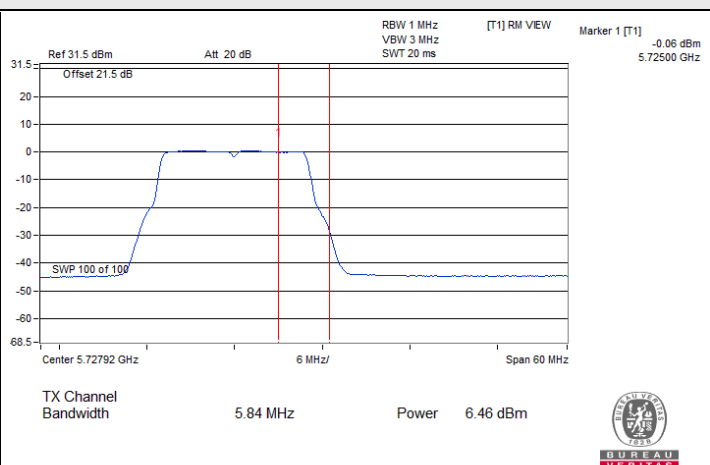


802.11a CDD / Chain 2 : CH 144 (U-NII-3)

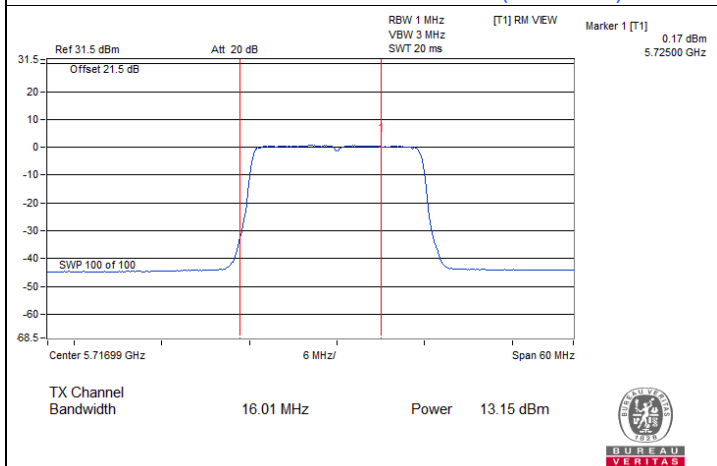
Spectrum Plot for channel straddling



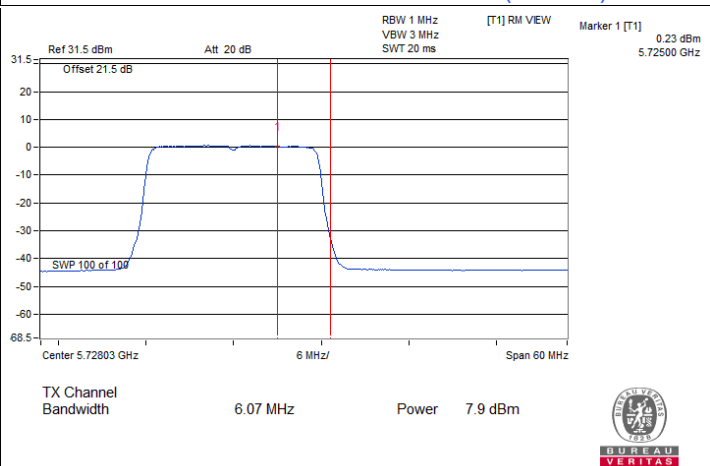
802.11a CDD / Chain 3 : CH 144 (U-NII-2C)



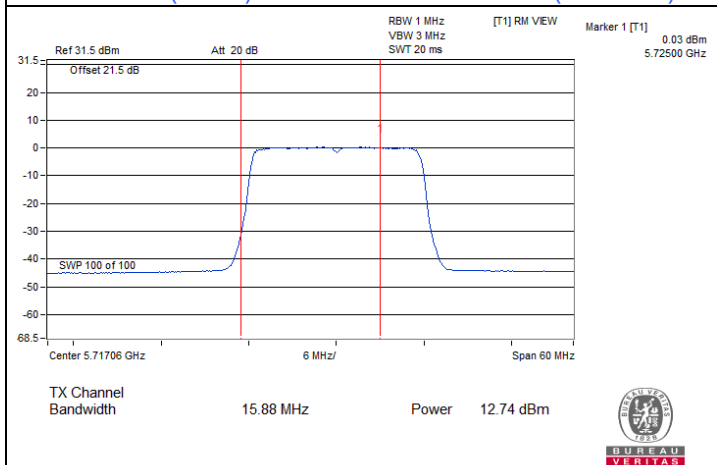
802.11a CDD / Chain 3 : CH 144 (U-NII-3)



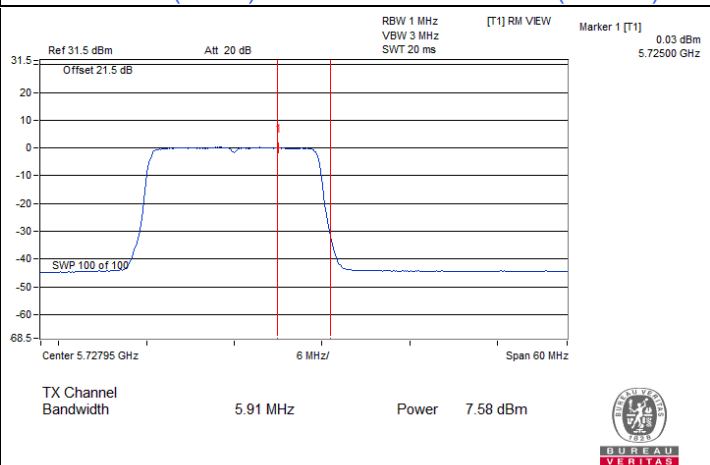
802.11ax (HE20) CDD / Chain 0 : CH 144 (U-NII-2C)



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

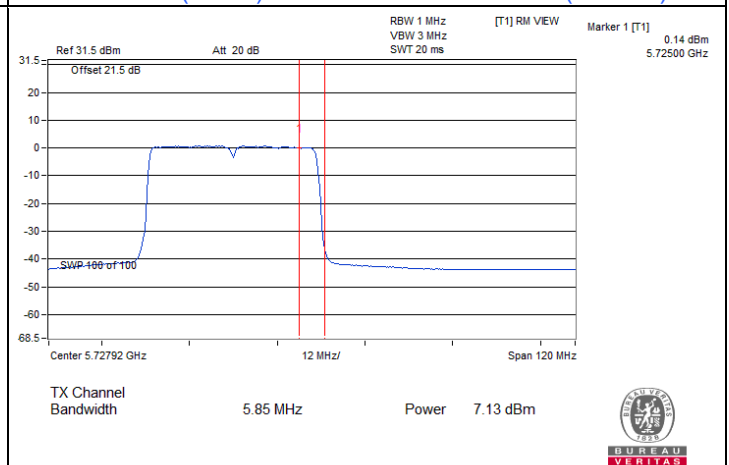
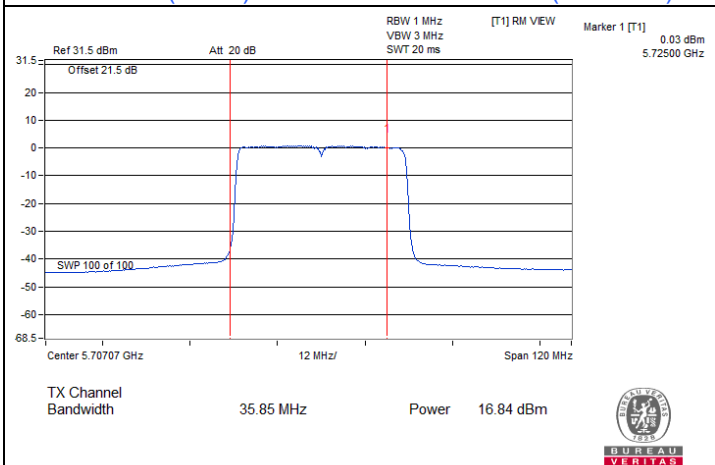
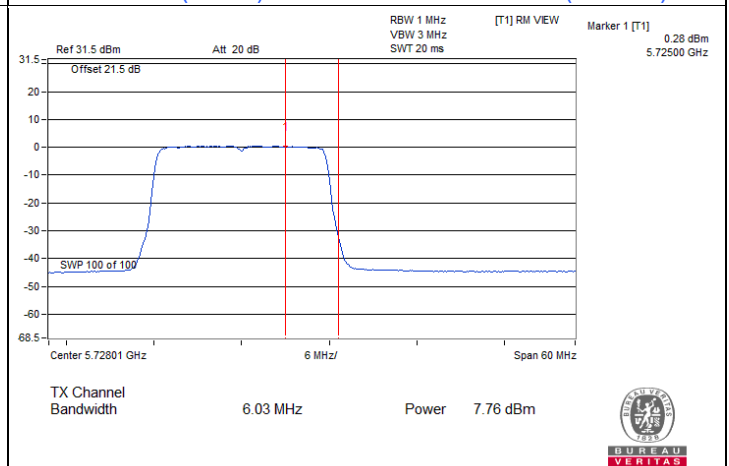
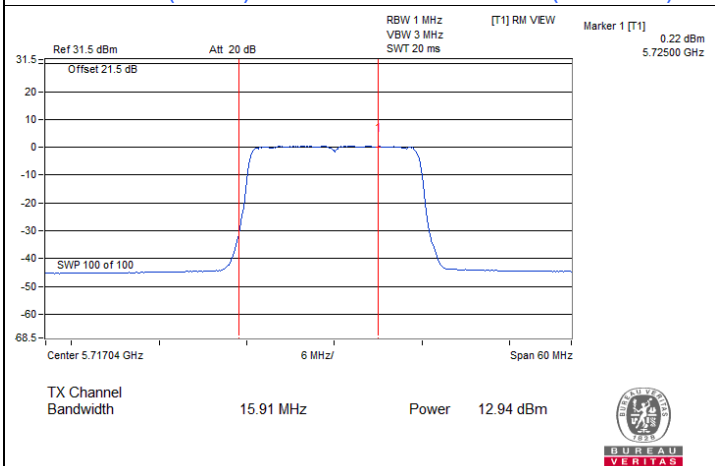
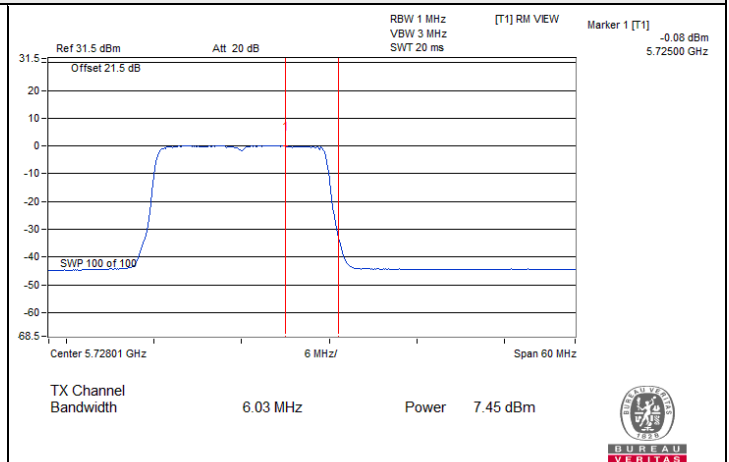
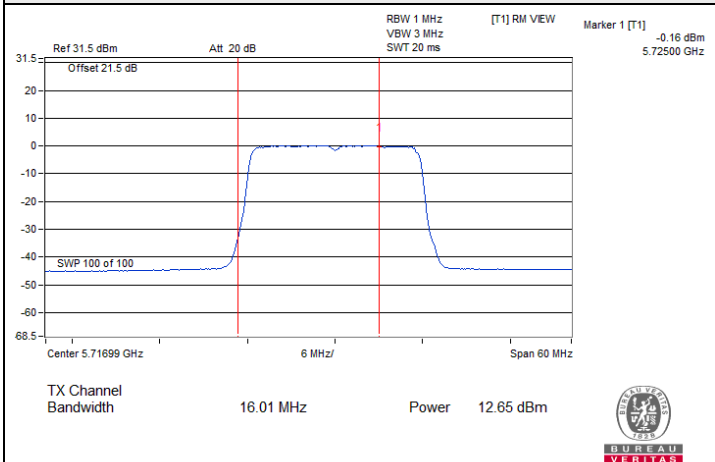


802.11ax (HE20) CDD / Chain 1 : CH 144 (U-NII-2C)

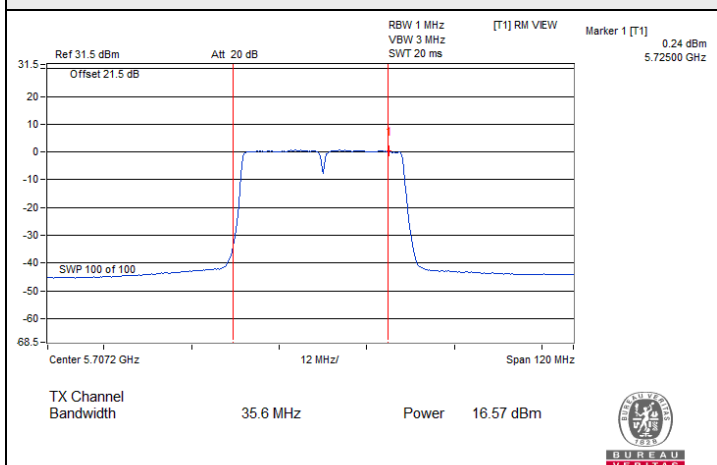


802.11ax (HE20) CDD / Chain 1 : CH 144 (U-NII-3)

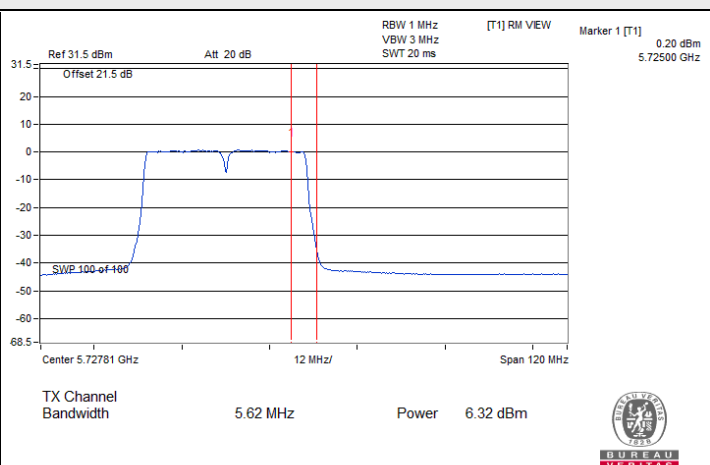
Spectrum Plot for channel straddling



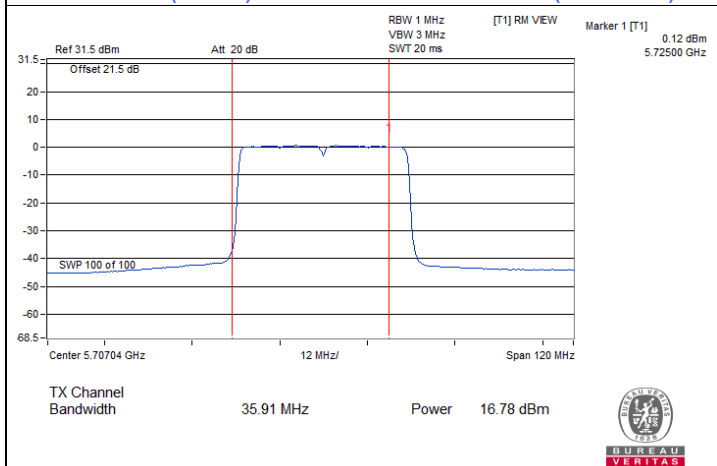
Spectrum Plot for channel straddling



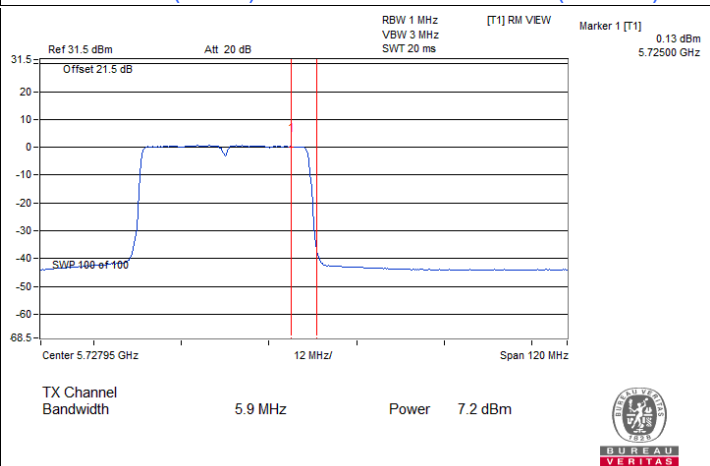
802.11ax (HE40) CDD / Chain 1 : CH 142 (U-NII-2C)



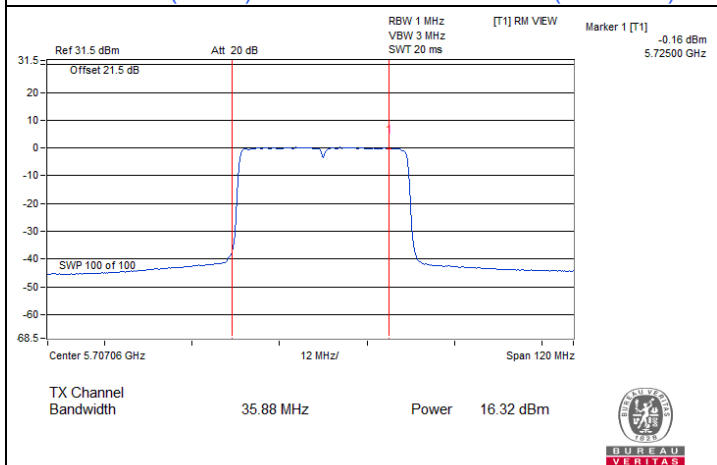
802.11ax (HE40) CDD / Chain 1 : CH 142 (U-NII-3)



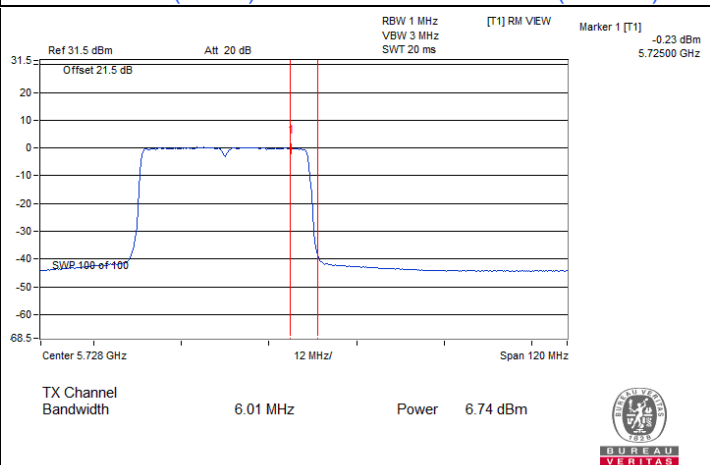
802.11ax (HE40) CDD / Chain 2 : CH 142 (U-NII-2C)



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

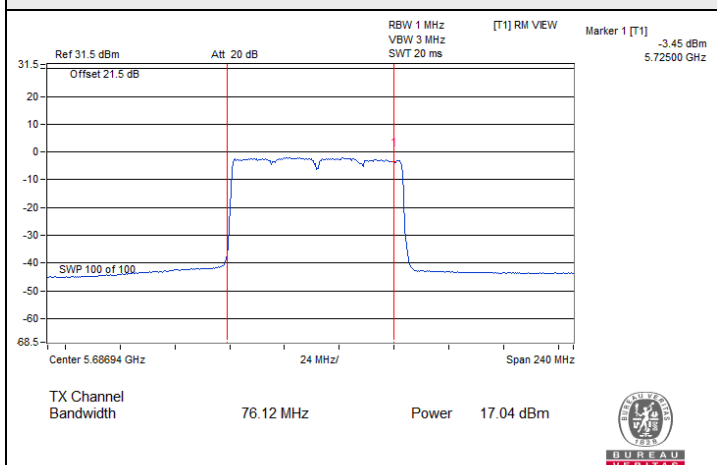


802.11ax (HE40) CDD / Chain 3 : CH 142 (U-NII-2C)

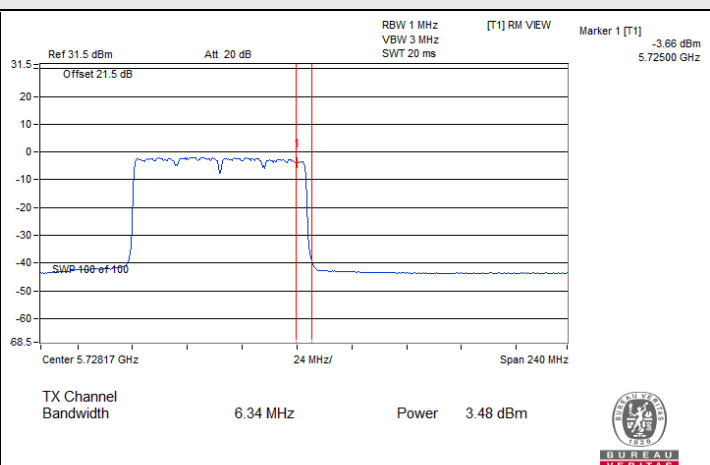


802.11ax (HE40) CDD / Chain 3 : CH 142 (U-NII-3)

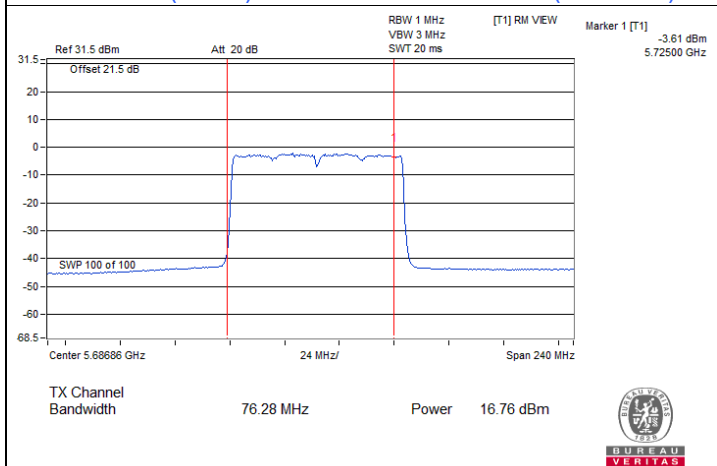
Spectrum Plot for channel straddling



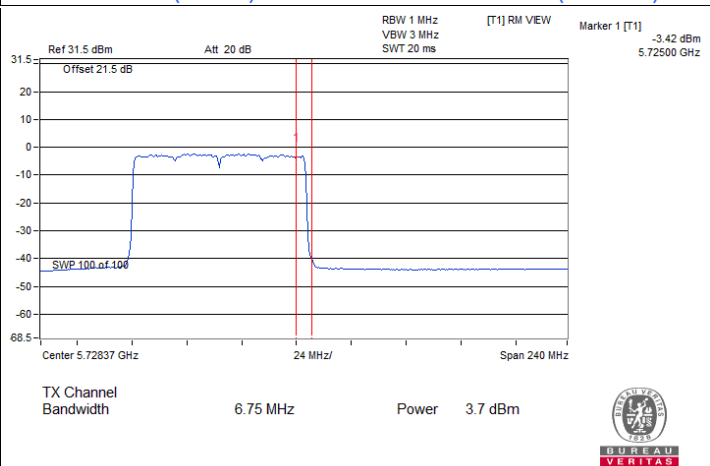
802.11ax (HE80) CDD / Chain 0 : CH 138 (U-NII-2C)



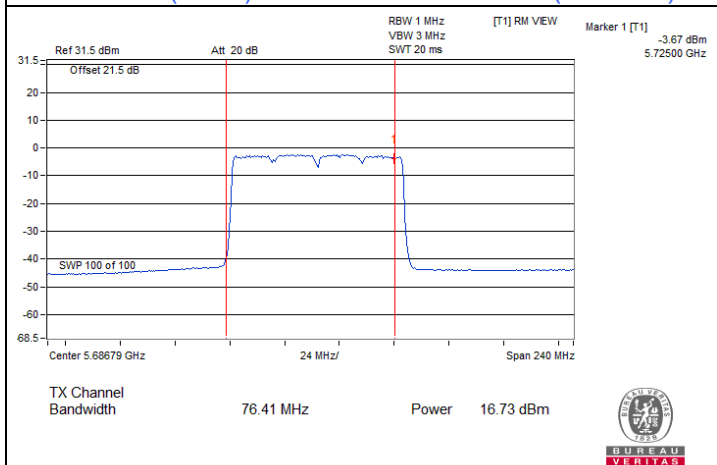
802.11ax (HE80) CDD / Chain 0 : CH 138 (U-NII-3)



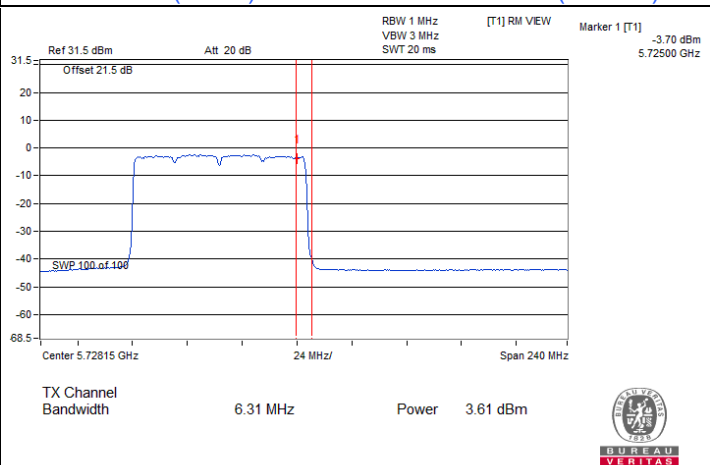
802.11ax (HE80) CDD / Chain 1 : CH 138 (U-NII-2C)



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

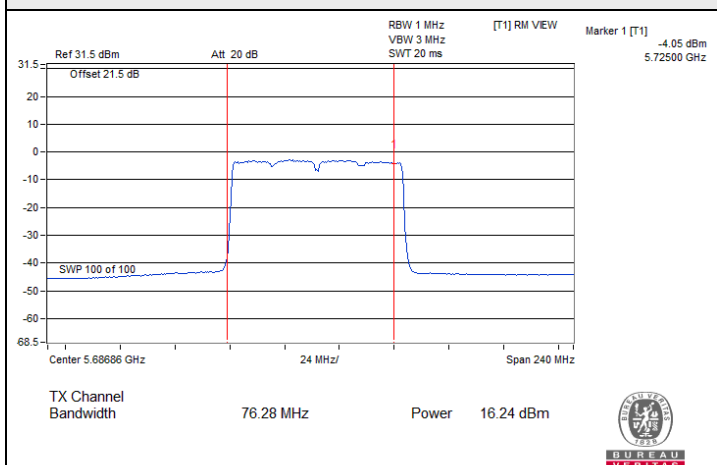


802.11ax (HE80) CDD / Chain 2 : CH 138 (U-NII-2C)

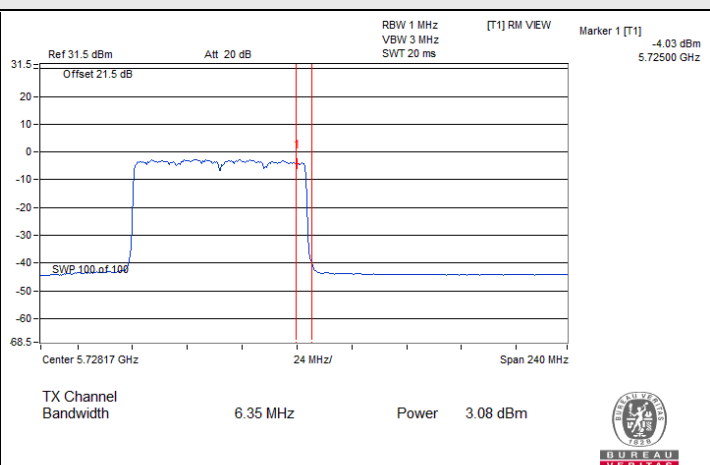


802.11ax (HE80) CDD / Chain 2 : CH 138 (U-NII-3)

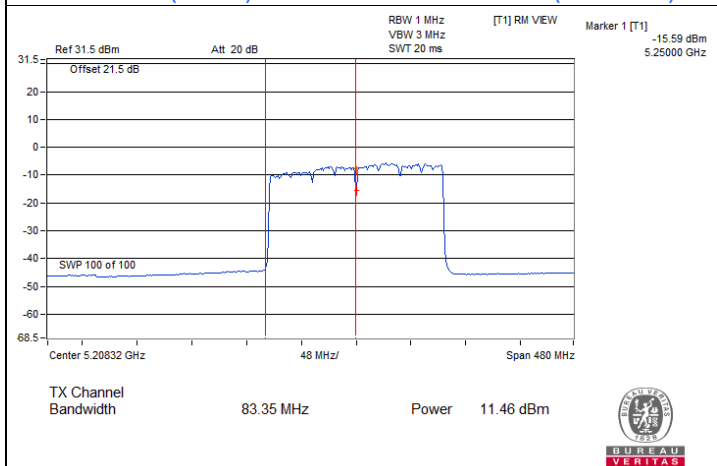
Spectrum Plot for channel straddling



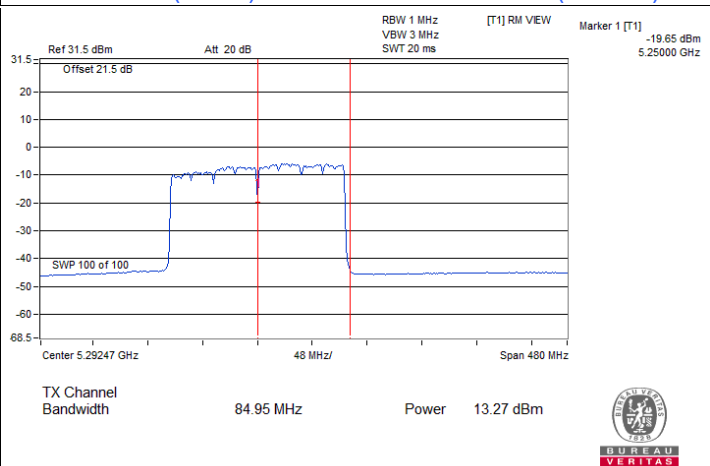
802.11ax (HE80) CDD / Chain 3 : CH 138 (U-NII-2C)



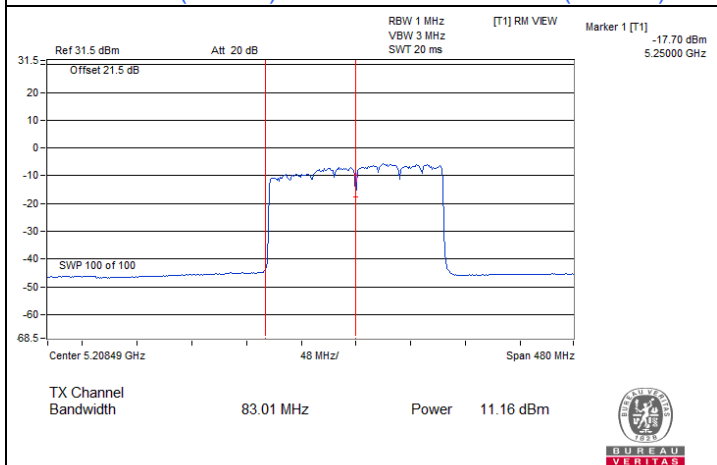
802.11ax (HE80) CDD / Chain 3 : CH 138 (U-NII-3)



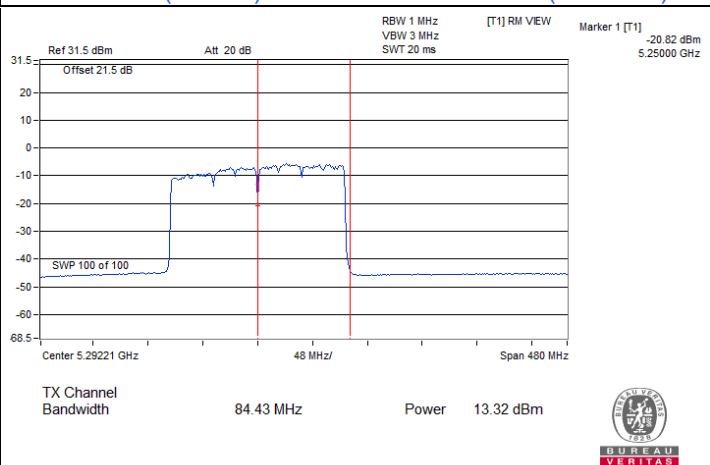
802.11ax (HE160) CDD / Chain 0 : CH 50 (U-NII-1)



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

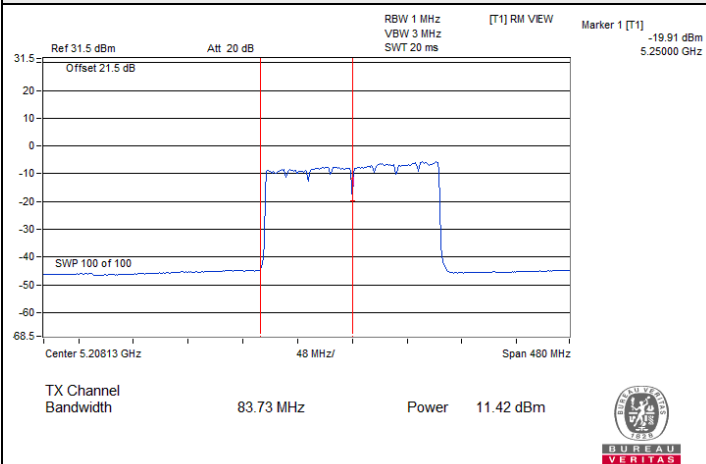


802.11ax (HE160) CDD / Chain 1 : CH 50 (U-NII-1)

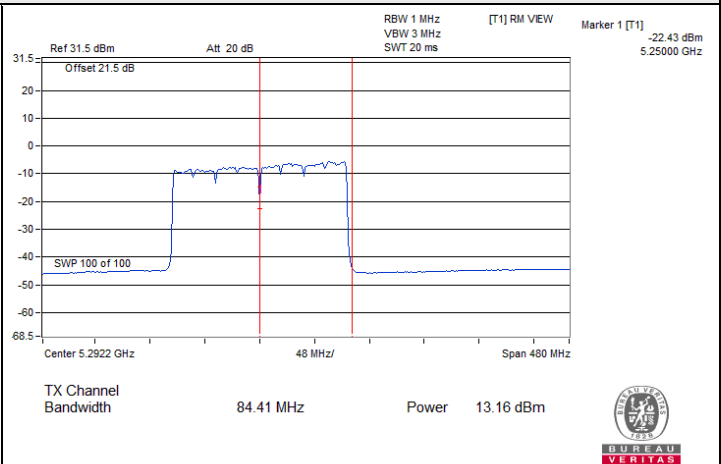


802.11ax (HE160) CDD / Chain 1 : CH 50 (U-NII-2A)

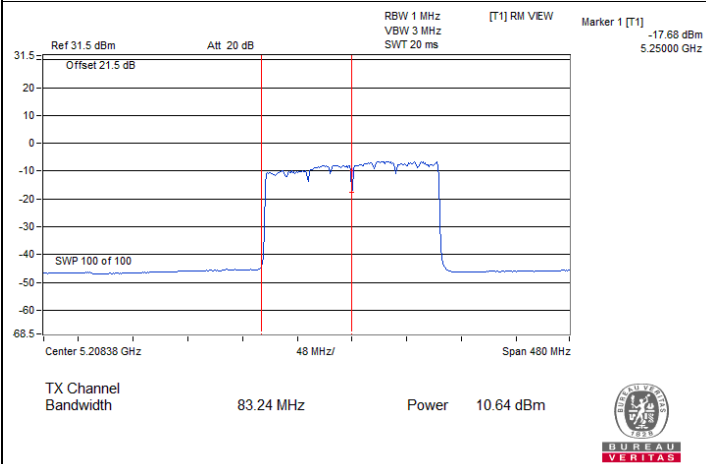
Spectrum Plot for channel straddling



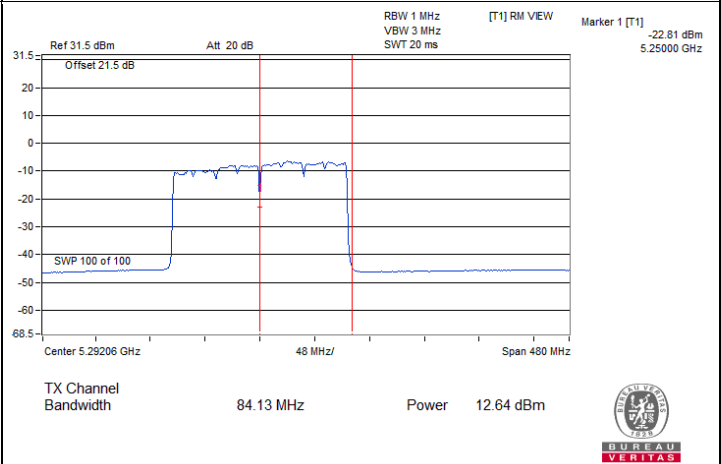
802.11ax (HE160) CDD / Chain 2 : CH 50 (U-NII-1)



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



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



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

7.3 Power Spectral Density

Input Power:	120 Vac, 60 Hz	Environmental Conditions:	24°C, 64% RH	Tested By:	Katina Lu
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802.11a

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)				Total PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3			
36	5180	6.71	7.16	7.33	7.43	13.19	13.38	Pass
40	5200	7.09	7.18	7.10	7.43	13.22	13.38	Pass
48	5240	6.83	7.30	7.32	7.27	13.21	13.38	Pass
52	5260	0.74	1.30	0.89	0.90	6.98	7.36	Pass
60	5300	0.56	1.17	1.22	1.18	7.06	7.36	Pass
64	5320	0.60	1.20	1.20	1.23	7.09	7.36	Pass
100	5500	0.83	1.04	0.93	1.02	6.98	7.29	Pass
116	5580	0.53	1.15	0.81	0.89	6.87	7.29	Pass
140	5700	0.80	0.98	0.93	0.65	6.86	7.29	Pass
144 (U-NII-2C)	5720	0.82	0.89	0.81	0.66	6.82	7.29	Pass

Notes:

- Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
- Directional gain = $10 \log[(10^{\text{Chain0}/20} + 10^{\text{Chain1}/20} + 10^{\text{Chain2}/20} + 10^{\text{Chain3}/20})^2 / 4]$
- For U-NII-1, the directional gain is 9.62 dBi > 6dBi, so the power density limit shall be reduced to $17-(9.62-6) = 13.38$ dBm/MHz.
- For U-NII-2A, the directional gain is 9.64 dBi > 6 dBi, so the power density limit shall be reduced to $11-(9.64-6) = 7.36$ dBm/MHz.
- For U-NII-2C, the directional gain is 9.71 dBi > 6 dBi, so the power density limit shall be reduced to $11-(9.71-6) = 7.29$ dBm/MHz.

802.11ax (HE20)

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)				Total PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3			
36	5180	5.69	5.56	5.13	5.46	11.49	13.38	Pass
40	5200	7.20	7.21	7.13	7.12	13.19	13.38	Pass
48	5240	7.06	7.15	7.13	7.34	13.19	13.38	Pass
52	5260	1.00	1.25	0.62	0.93	6.98	7.36	Pass
60	5300	0.77	1.17	0.78	0.93	6.94	7.36	Pass
64	5320	0.72	1.22	0.85	0.95	6.96	7.36	Pass
100	5500	0.83	0.93	1.00	0.96	6.95	7.29	Pass
116	5580	0.51	0.84	0.63	0.95	6.76	7.29	Pass
140	5700	0.83	0.82	0.88	0.91	6.88	7.29	Pass
144 (U-NII-2C)	5720	0.78	0.83	0.82	0.72	6.81	7.29	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 = $10 \log[(10^{\text{Chain0}/20} + 10^{\text{Chain1}/20} + 10^{\text{Chain2}/20} + 10^{\text{Chain3}/20})^2 / 4]$
3. For U-NII-1, the directional gain is 9.62 dBi > 6dBi, so the power density limit shall be reduced to $17-(9.62-6) = 13.38$ dBm/MHz.
4. For U-NII-2A, the directional gain is 9.64 dBi > 6 dBi, so the power density limit shall be reduced to $11-(9.64-6) = 7.36$ dBm/MHz.
5. For U-NII-2C, the directional gain is 9.71 dBi > 6 dBi, so the power density limit shall be reduced to $11-(9.71-6) = 7.29$ dBm/MHz.

802.11ax (HE40)

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)				Total PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3			
38	5190	0.25	0.24	0.09	0.62	6.33	13.38	Pass
46	5230	5.56	5.69	5.45	6.15	11.74	13.38	Pass
54	5270	0.23	0.26	0.22	0.45	6.31	7.36	Pass
62	5310	-0.11	-0.17	0.20	0.17	6.05	7.36	Pass
102	5510	0.55	0.38	0.07	0.47	6.39	7.29	Pass
110	5550	0.94	0.75	0.46	0.60	6.71	7.29	Pass
134	5670	0.75	0.61	0.73	0.46	6.66	7.29	Pass
142 (U-NII-2C)	5710	0.72	0.73	0.65	0.36	6.64	7.29	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 = $10 \log[(10^{\text{Chain0}/20} + 10^{\text{Chain1}/20} + 10^{\text{Chain2}/20} + 10^{\text{Chain3}/20})^2 / 4]$
3. For U-NII-1, the directional gain is 9.62 dBi > 6dBi, so the power density limit shall be reduced to $17-(9.62-6) = 13.38$ dBm/MHz.
4. For U-NII-2A, the directional gain is 9.64 dBi > 6 dBi, so the power density limit shall be reduced to $11-(9.64-6) = 7.36$ dBm/MHz.
5. For U-NII-2C, the directional gain is 9.71 dBi > 6 dBi, so the power density limit shall be reduced to $11-(9.71-6) = 7.29$ dBm/MHz.

802.11ax (HE80)

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)				Total PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3			
42	5210	-3.24	-3.03	-3.85	-3.39	2.65	13.38	Pass
58	5290	-2.79	-3.57	-2.97	-3.15	2.91	7.36	Pass
106	5530	-2.35	-2.36	-2.60	-2.53	3.56	7.29	Pass
122	5610	-2.00	-2.42	-2.35	-2.29	3.76	7.29	Pass
138 (U-NII-2C)	5690	-2.14	-2.36	-2.49	-2.69	3.61	7.29	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 = $10 \log[(10^{\text{Chain0}/20} + 10^{\text{Chain1}/20} + 10^{\text{Chain2}/20} + 10^{\text{Chain3}/20})^2 / 4]$
3. For U-NII-1, the directional gain is 9.62 dBi > 6dBi, so the power density limit shall be reduced to $17-(9.62-6) = 13.38$ dBm/MHz.
4. For U-NII-2A, the directional gain is 9.64 dBi > 6 dBi, so the power density limit shall be reduced to $11-(9.64-6) = 7.36$ dBm/MHz.
5. For U-NII-2C, the directional gain is 9.71 dBi > 6 dBi, so the power density limit shall be reduced to $11-(9.71-6) = 7.29$ dBm/MHz.

802.11ax (HE160)

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)				Total PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3			
50 (U-NII-1)	5250	-7.13	-7.18	-7.38	-7.70	-1.32	13.38	Pass
50 (U-NII-2A)	5250	-5.58	-6.14	-5.76	-6.47	0.05	7.36	Pass
114	5570	-6.63	-7.11	-6.84	-6.80	-0.82	7.29	Pass

Notes:

- Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
- Directional gain = $10 \log[(10^{\text{Chain0}/20} + 10^{\text{Chain1}/20} + 10^{\text{Chain2}/20} + 10^{\text{Chain3}/20})^2 / 4]$
- For U-NII-1, the directional gain is 9.62 dBi > 6dBi, so the power density limit shall be reduced to $17-(9.62-6) = 13.38$ dBm/MHz.
- For U-NII-2A, the directional gain is 9.64 dBi > 6 dBi, so the power density limit shall be reduced to $11-(9.64-6) = 7.36$ dBm/MHz.
- For U-NII-2C, the directional gain is 9.71 dBi > 6 dBi, so the power density limit shall be reduced to $11-(9.71-6) = 7.29$ dBm/MHz.

802.11a

Chan.	Chan. Freq. (MHz)	PSD (dBm/300kHz)				Total PSD (dBm/300kHz)	Total PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
144 (U-NII-3)	5720	-7.80	-7.53	-7.53	-7.82	-1.65	0.57	26.32	Pass
149	5745	1.56	1.24	1.00	0.87	7.2	9.42	26.32	Pass
157	5785	1.42	1.32	1.01	1.18	7.26	9.48	26.32	Pass
165	5825	1.22	0.74	0.67	1.28	7.01	9.23	26.32	Pass

Notes:

- Method E) 2) b) Measure and sum spectral maxima across the outputs of KDB 662911 is using for calculating total power density.
- Directional gain = $10 \log[(10^{\text{Chain0}/20} + 10^{\text{Chain1}/20} + 10^{\text{Chain2}/20} + 10^{\text{Chain3}/20})^2 / 4]$
- For U-NII-3, the directional gain is 9.68 dBi > 6 dBi, so the power density limit shall be reduced to $30-(9.68-6) = 26.32$ dBm/500kHz.

802.11ax (HE20)

Chan.	Chan. Freq. (MHz)	PSD (dBm/300kHz)				Total PSD (dBm/300kHz)	Total PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
144 (U-NII-3)	5720	-8.63	-8.47	-8.34	-8.41	-2.44	-0.22	26.32	Pass
149	5745	0.48	-0.03	0.17	0.26	6.24	8.46	26.32	Pass
157	5785	0.25	-0.03	-0.16	0.25	6.1	8.32	26.32	Pass
165	5825	0.19	-0.21	-0.24	0.30	6.04	8.26	26.32	Pass

Notes:

1. Method E) 2) b) Measure and sum spectral maxima across the outputs of KDB 662911 is using for calculating total power density.
2. Directional gain = $10 \log[(10^{\text{Chain0/20}} + 10^{\text{Chain1/20}} + 10^{\text{Chain2/20}} + 10^{\text{Chain3/20}})^2 / 4]$
3. For U-NII-3, the directional gain is 9.68 dBi > 6 dBi, so the power density limit shall be reduced to $30 - (9.68 - 6) = 26.32$ dBm/500kHz.

802.11ax (HE40)

Chan.	Chan. Freq. (MHz)	PSD (dBm/300kHz)				Total PSD (dBm/300kHz)	Total PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
142 (U-NII-3)	5710	-8.93	-8.69	-8.83	-9.25	-2.9	-0.68	26.32	Pass
151	5755	-1.88	-2.70	-2.09	-2.26	3.8	6.02	26.32	Pass
159	5795	-1.91	-2.57	-2.26	-2.23	3.78	6.00	26.32	Pass

Notes:

1. Method E) 2) b) Measure and sum spectral maxima across the outputs of KDB 662911 is using for calculating total power density.
2. Directional gain = $10 \log[(10^{\text{Chain0/20}} + 10^{\text{Chain1/20}} + 10^{\text{Chain2/20}} + 10^{\text{Chain3/20}})^2 / 4]$
3. For U-NII-3, the directional gain is 9.68 dBi > 6 dBi, so the power density limit shall be reduced to $30 - (9.68 - 6) = 26.32$ dBm/500kHz.

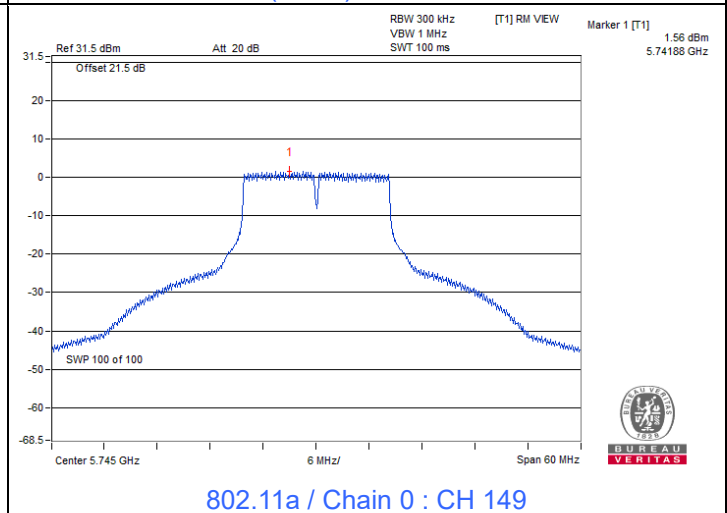
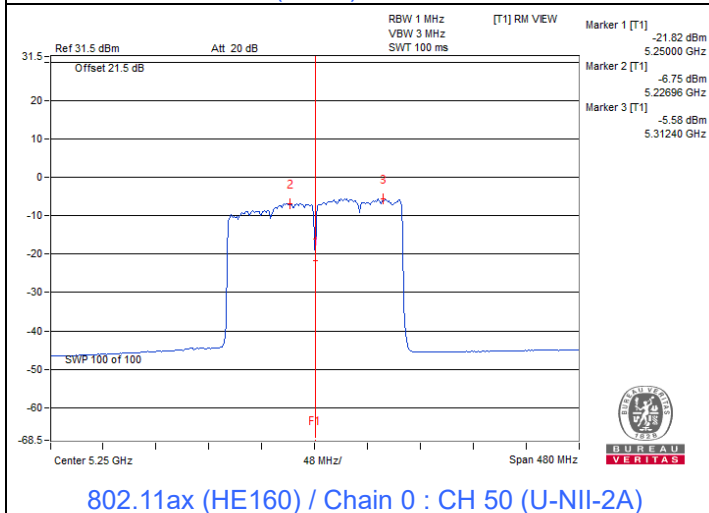
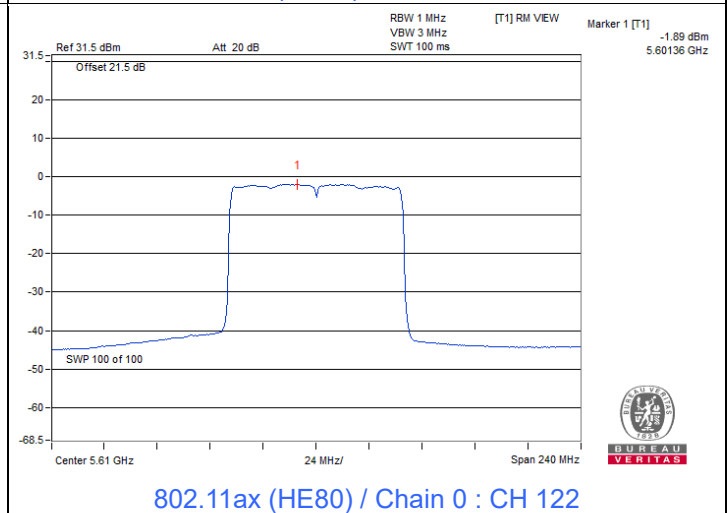
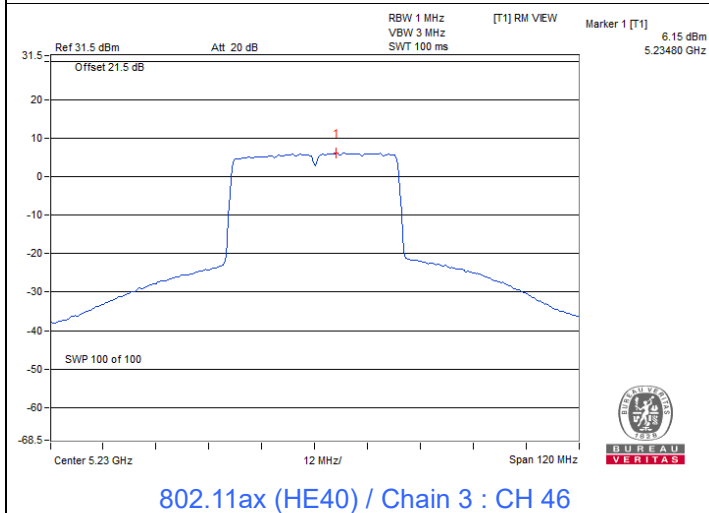
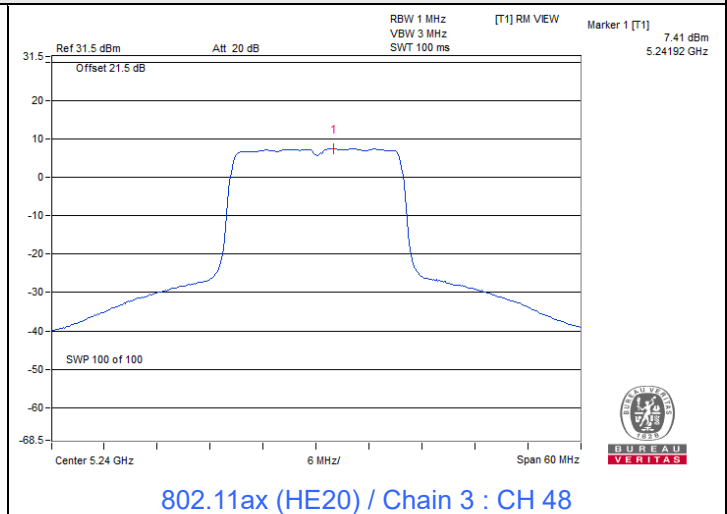
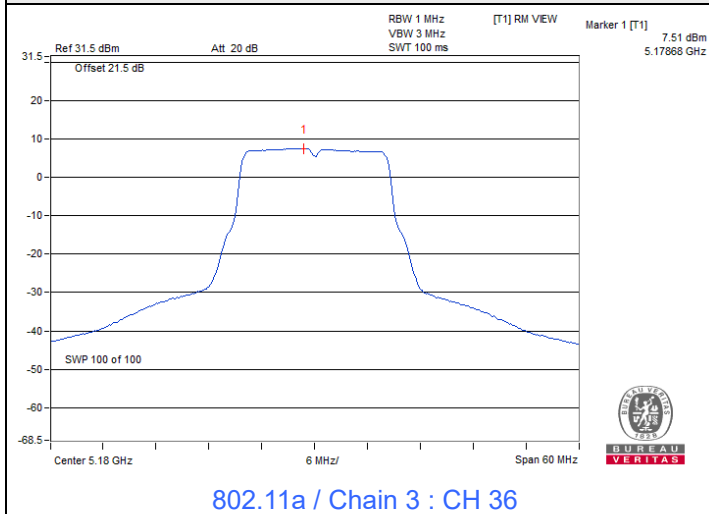
802.11ax (HE80)

Chan.	Chan. Freq. (MHz)	PSD (dBm/300kHz)				Total PSD (dBm/300kHz)	Total PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
138 (U-NII-3)	5690	-12.07	-12.19	-12.34	-12.82	-6.33	-4.11	26.32	Pass
155	5775	-5.55	-5.69	-6.15	-5.87	0.21	2.43	26.32	Pass

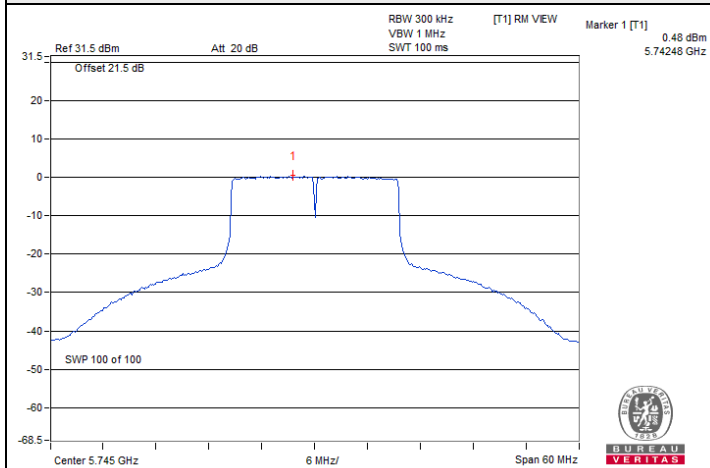
Notes:

1. Method E) 2) b) Measure and sum spectral maxima across the outputs of KDB 662911 is using for calculating total power density.
2. Directional gain = $10 \log[(10^{\text{Chain0/20}} + 10^{\text{Chain1/20}} + 10^{\text{Chain2/20}} + 10^{\text{Chain3/20}})^2 / 4]$
3. For U-NII-3, the directional gain is 9.68 dBi > 6 dBi, so the power density limit shall be reduced to $30 - (9.68 - 6) = 26.32$ dBm/500kHz.

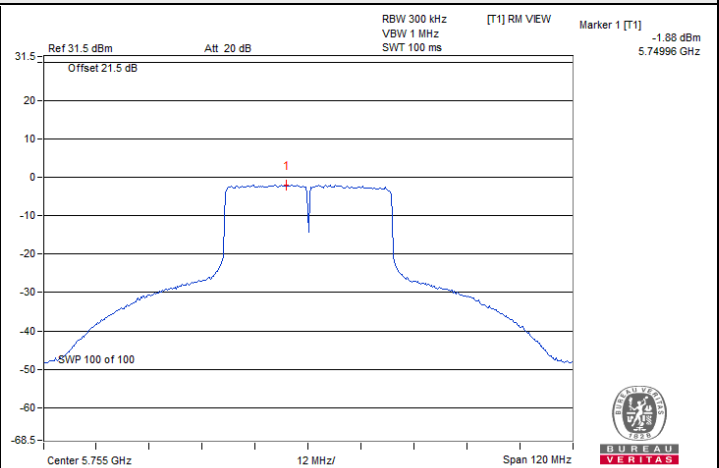
Spectrum Plot of Maximum Value



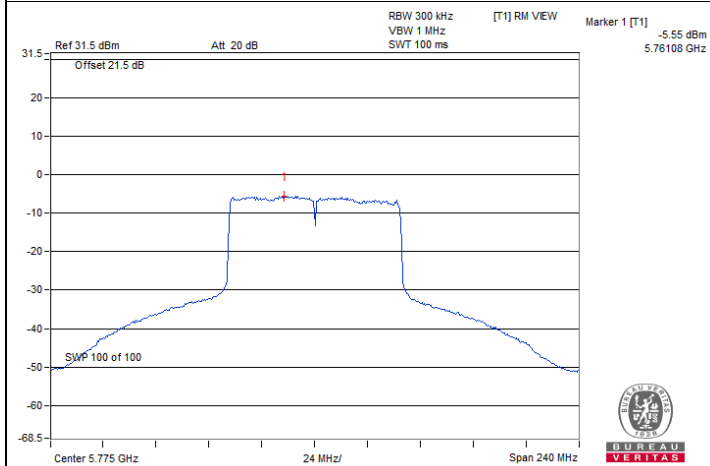
Spectrum Plot of Maximum Value



802.11ax (HE20) / Chain 0 : CH 149



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:	24°C, 64% RH	Tested By:	Katina Lu
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802.11a

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)				Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3		
144 (U-NII-3)	5720	3.22	3.21	3.22	3.23	0.5	Pass
149	5745	16.41	16.40	16.39	16.39	0.5	Pass
157	5785	16.40	16.40	16.43	16.44	0.5	Pass
165	5825	16.40	16.41	16.40	16.44	0.5	Pass

802.11ax (HE20)

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)				Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3		
144 (U-NII-3)	5720	4.56	4.55	4.60	4.54	0.5	Pass
149	5745	19.02	18.96	18.98	18.96	0.5	Pass
157	5785	19.07	18.97	19.02	19.03	0.5	Pass
165	5825	19.11	19.00	19.01	19.03	0.5	Pass

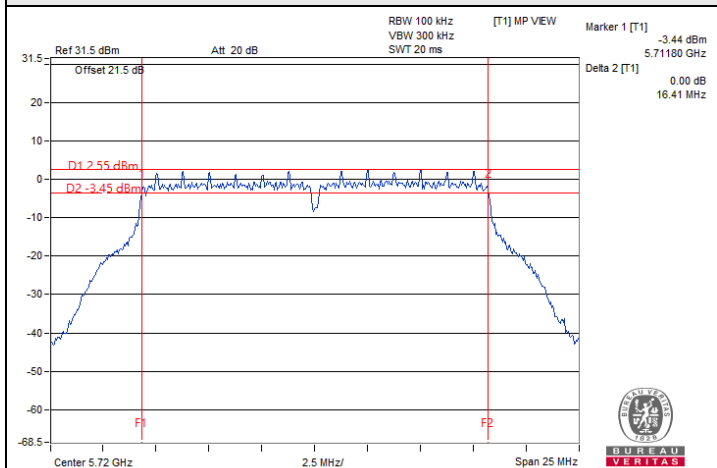
802.11ax (HE40)

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)				Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3		
142 (U-NII-3)	5710	3.97	3.25	3.88	3.94	0.5	Pass
151	5755	38.03	37.82	37.91	37.80	0.5	Pass
159	5795	38.00	37.77	37.86	37.90	0.5	Pass

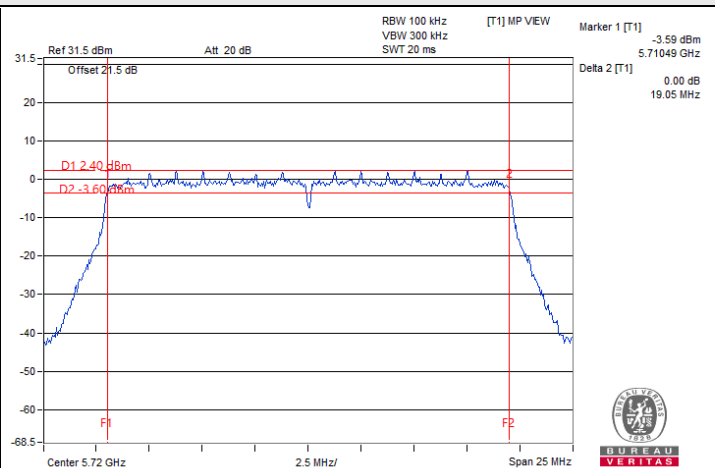
802.11ax (HE80)

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)				Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3		
138 (U-NII-3)	5690	3.96	4.03	3.81	4.01	0.5	Pass
155	5775	77.58	77.62	77.53	77.68	0.5	Pass

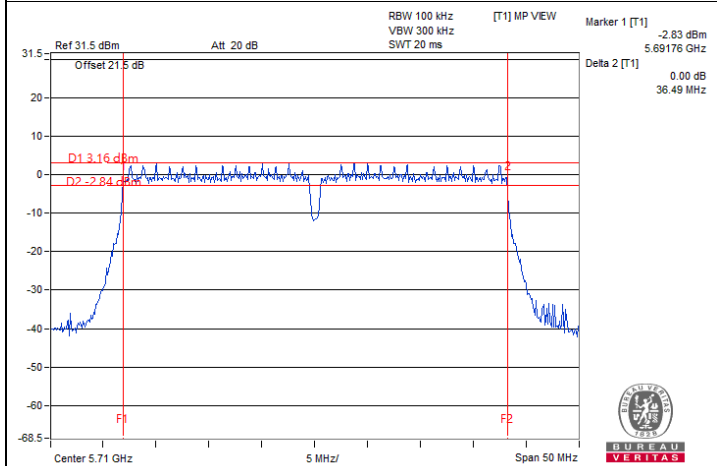
Spectrum Plot of Minimum Value



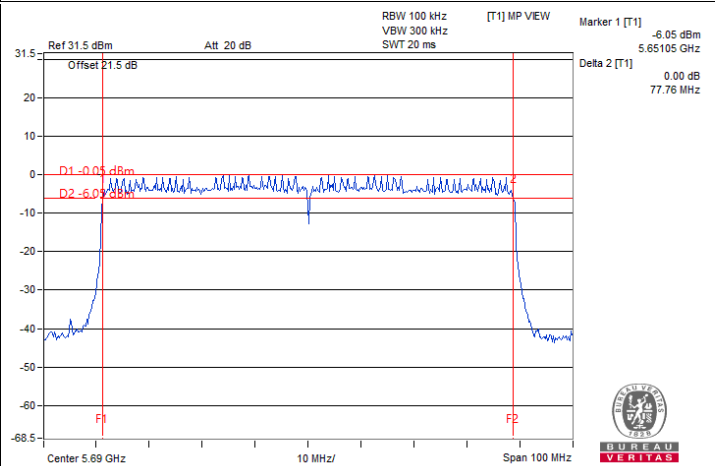
802.11a / Chain 1 : CH 144 (U-NII-3)



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



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



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

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

7.5 Occupied Bandwidth

Input Power:	120 Vac, 60 Hz	Environmental Conditions:	24°C, 64% RH	Tested By:	Katina Lu
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802.11a

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
36	5180	17.22	17.22	17.22	17.13
40	5200	17.16	17.16	16.92	16.95
48	5240	17.28	17.28	17.04	17.04
52	5260	17.04	17.04	16.92	16.95
60	5300	17.04	17.04	17.04	16.86
64	5320	17.28	17.28	17.40	17.40
100	5500	17.40	17.28	17.40	17.22
116	5580	17.04	17.04	17.04	16.92
140	5700	17.04	17.04	17.04	17.04
144 (U-NII-2C)	5720	13.52	13.52	13.52	13.40
144 (U-NII-3)	5720	3.52	3.52	3.52	3.52
149	5745	17.88	18.00	17.88	17.56
157	5785	18.12	18.36	18.36	17.76
165	5825	18.12	18.24	18.36	17.52

802.11ax (HE20)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
36	5180	19.20	19.32	19.20	19.20
40	5200	19.32	19.20	19.20	19.20
48	5240	19.32	19.44	19.20	19.08
52	5260	19.20	19.20	19.20	19.20
60	5300	19.20	19.20	19.20	19.08
64	5320	19.32	19.20	19.44	19.32
100	5500	19.20	19.20	19.20	19.20
116	5580	19.20	19.20	19.32	19.20
140	5700	19.20	19.20	19.20	19.20
144 (U-NII-2C)	5720	14.60	14.60	14.60	14.60
144 (U-NII-3)	5720	4.60	4.60	4.60	4.48
149	5745	19.44	19.44	19.48	19.39
157	5785	19.44	19.56	19.68	19.44
165	5825	19.56	19.44	19.68	19.44

802.11ax (HE40)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
38	5190	38.16	38.40	38.16	38.40
46	5230	38.16	38.40	38.16	38.40
54	5270	38.16	37.92	37.92	37.92
62	5310	38.16	38.40	38.16	38.16
102	5510	38.40	38.40	38.40	38.40
110	5550	38.16	38.16	37.92	37.68
134	5670	37.92	37.92	37.92	37.92
142 (U-NII-2C)	5710	33.96	33.48	33.96	33.96
142 (U-NII-3)	5710	3.96	3.48	3.96	3.96
151	5755	38.64	38.40	38.88	38.40
159	5795	38.64	38.64	39.12	38.64

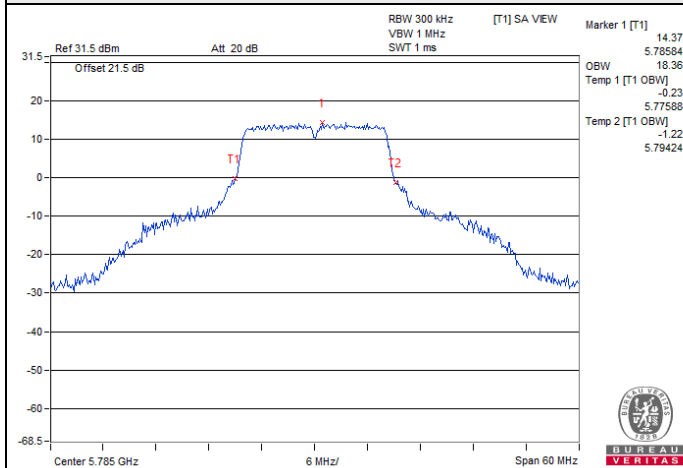
802.11ax (HE80)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
42	5210	77.76	77.28	77.76	77.76
58	5290	77.76	77.76	77.76	77.76
106	5530	77.76	77.76	77.76	77.28
122	5610	77.28	77.28	77.76	77.28
138 (U-NII-2C)	5690	73.88	73.88	73.88	73.88
138 (U-NII-3)	5690	3.40	3.88	3.88	3.40
155	5775	77.28	77.76	77.76	77.76

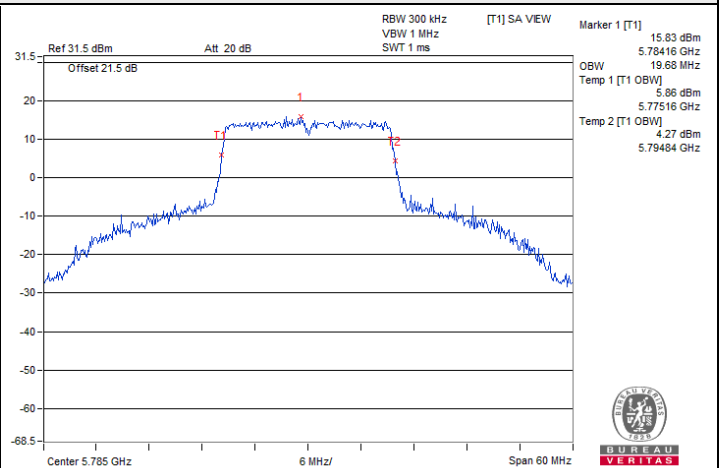
802.11ax (HE160)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
50 (U-NII-1)	5250	77.76	77.76	78.72	77.76
50 (U-NII-2A)	5250	78.72	78.72	78.72	78.72
114	5570	157.44	156.48	157.44	156.48

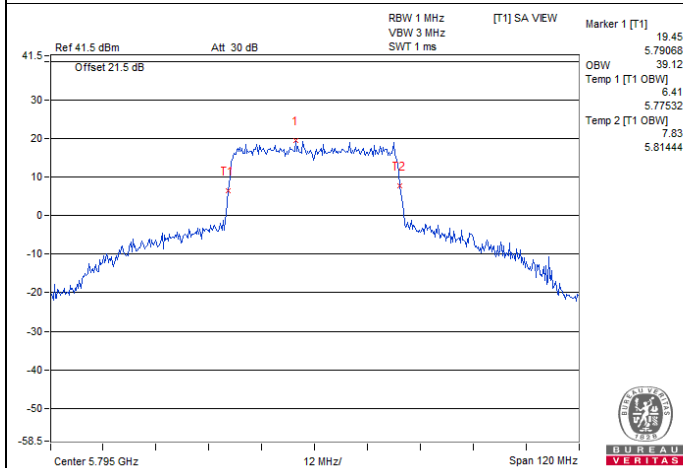
Spectrum Plot of Maximum Value



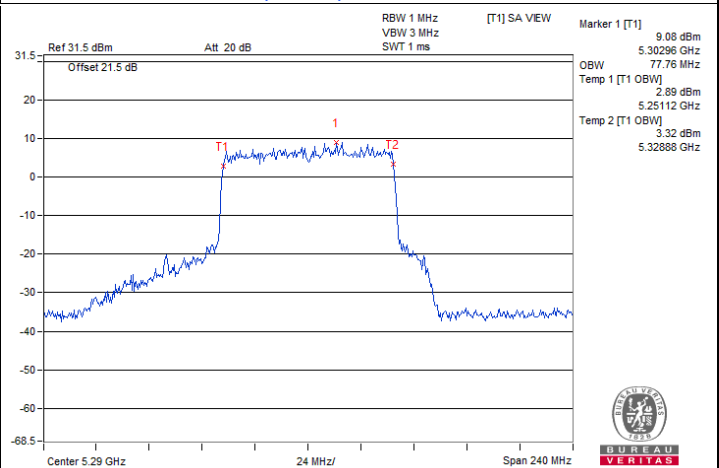
802.11a / Chain 1 : CH 157



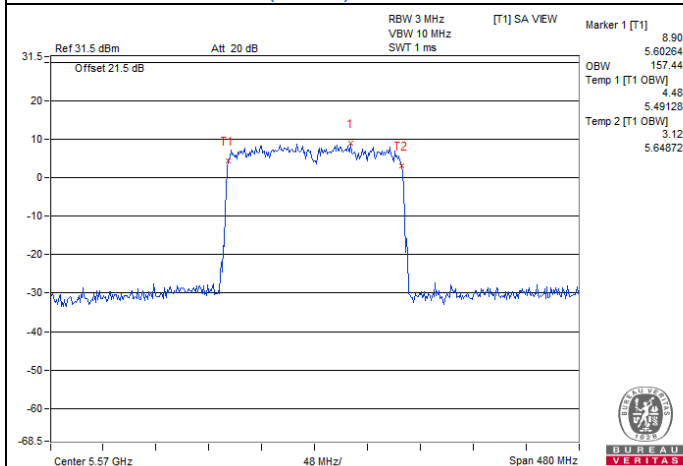
802.11ax (HE20) / Chain 2 : CH 157



802.11ax (HE40) / Chain 2 : CH 159

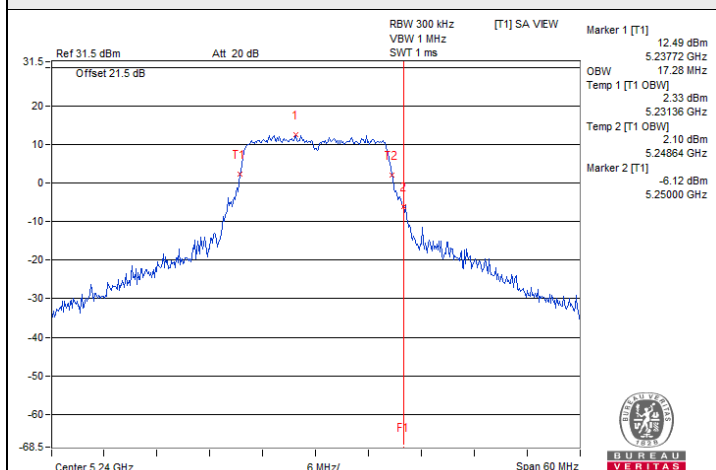


802.11ax (HE80) / Chain 0 : CH 58

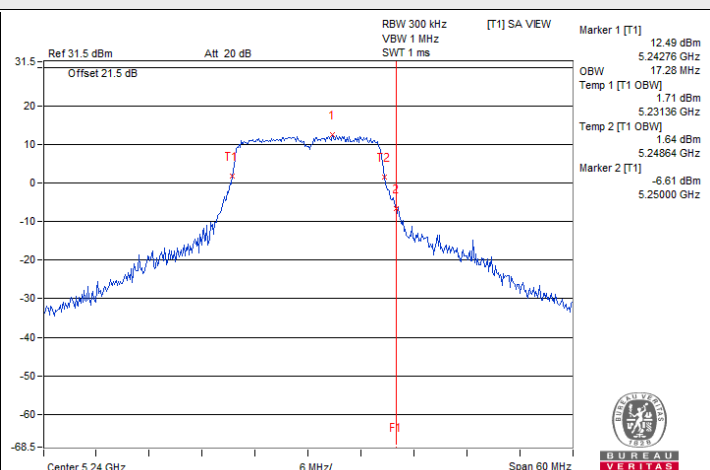


802.11ax (HE160) / Chain 0 : CH 114

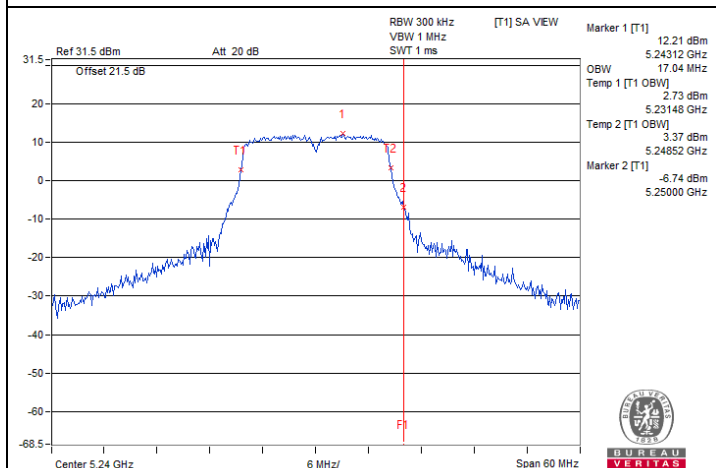
Spectrum Plot for nearby DFS band (DFS is required, if 99% OCP straddle into U-NII-2A)



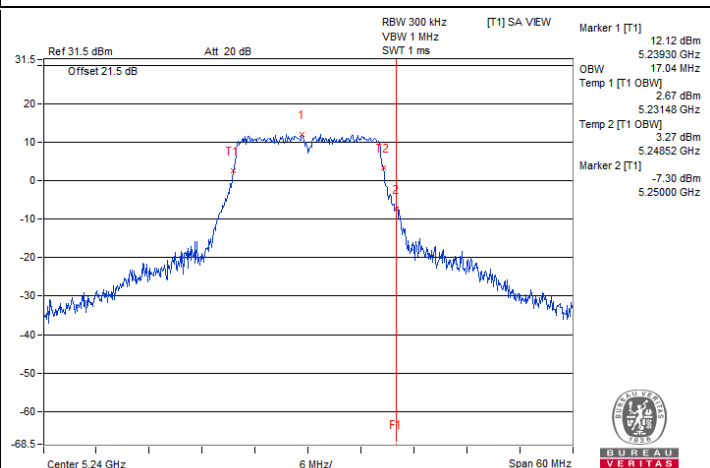
802.11a / Chain 0 : CH 48



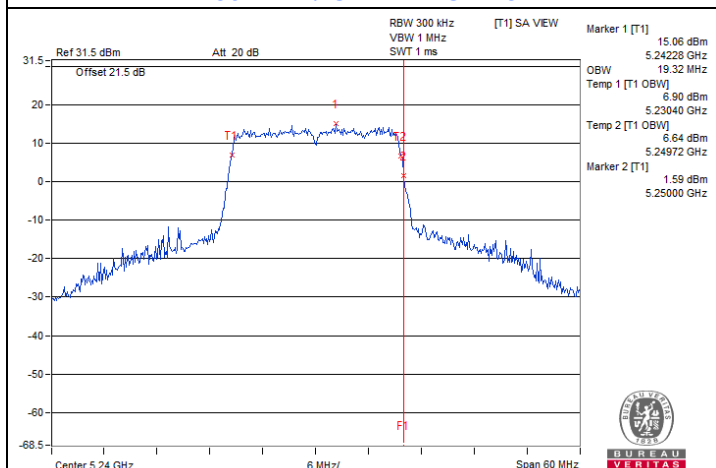
802.11a / Chain 1 : CH 48



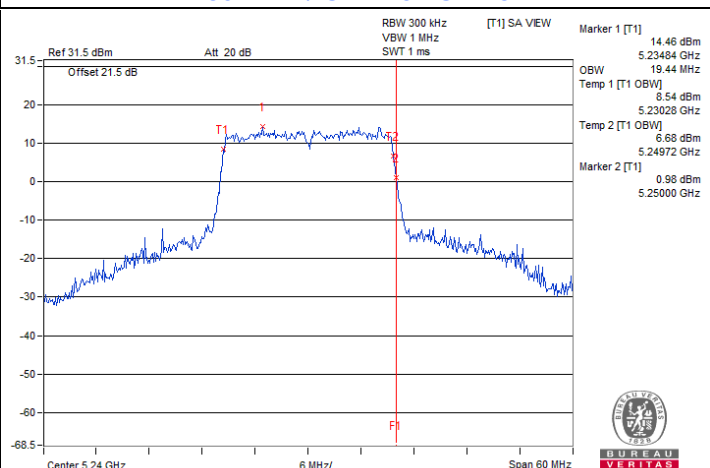
802.11a / Chain 2 : CH 48



802.11a / Chain 3 : CH 48

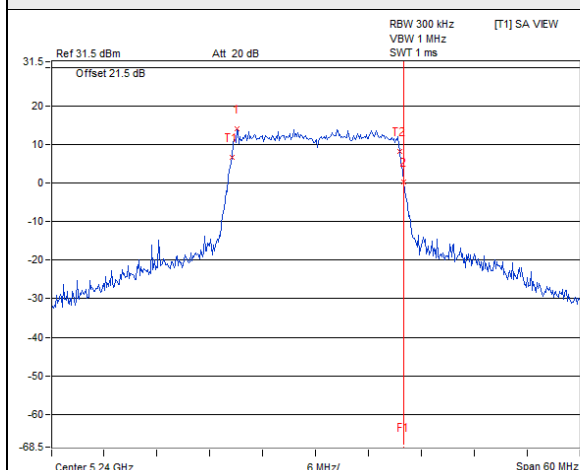


802.11ax (HE20) / Chain 0 : CH 48

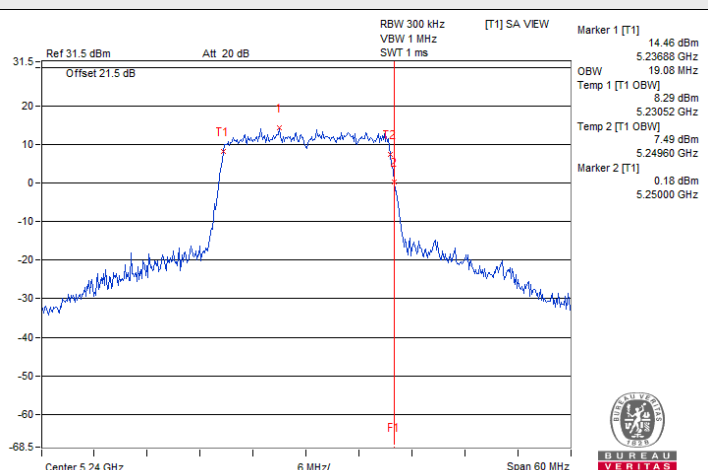


802.11ax (HE20) / Chain 1 : CH 48

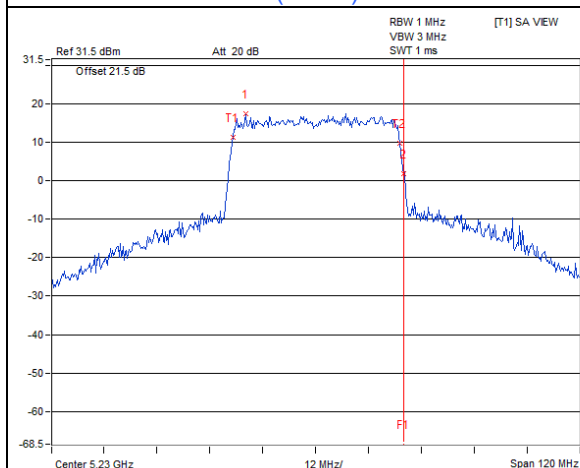
Spectrum Plot for nearby DFS band (DFS is required, if 99% OCP straddle into U-NII-2A)



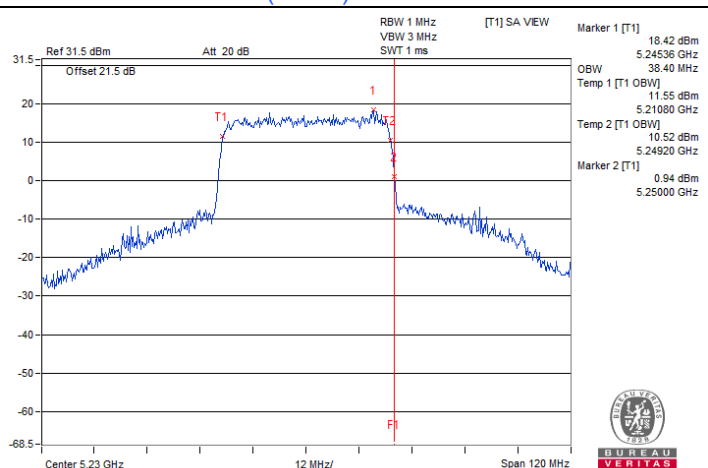
802.11ax (HE20) / Chain 2 : CH 48



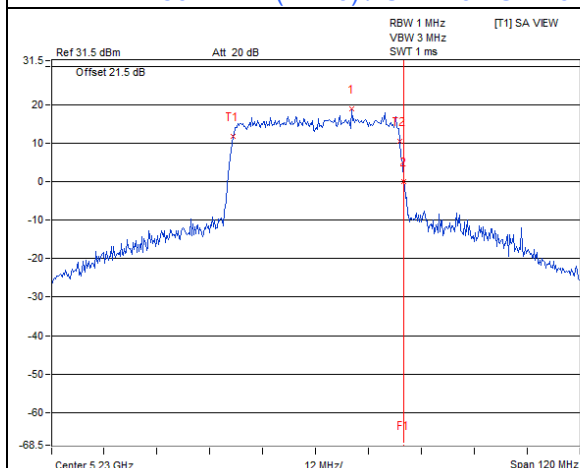
802.11ax (HE20) / Chain 3 : CH 48



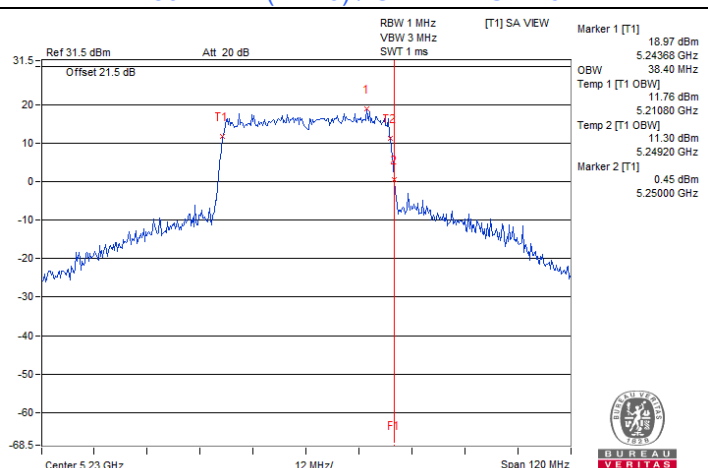
802.11ax (HE40) / Chain 0 : CH 46



802.11ax (HE40) / Chain 1 : CH 46

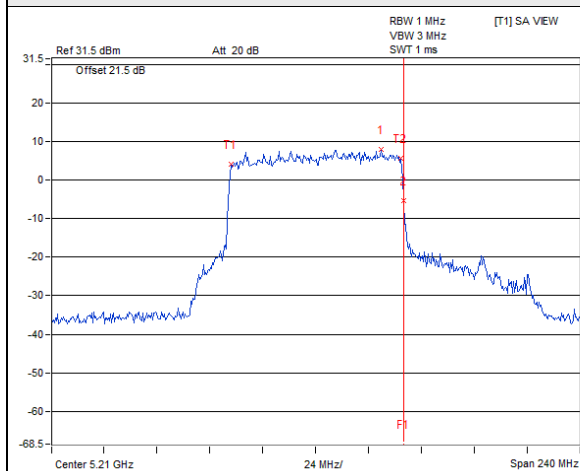


802.11ax (HE40) / Chain 2 : CH 46

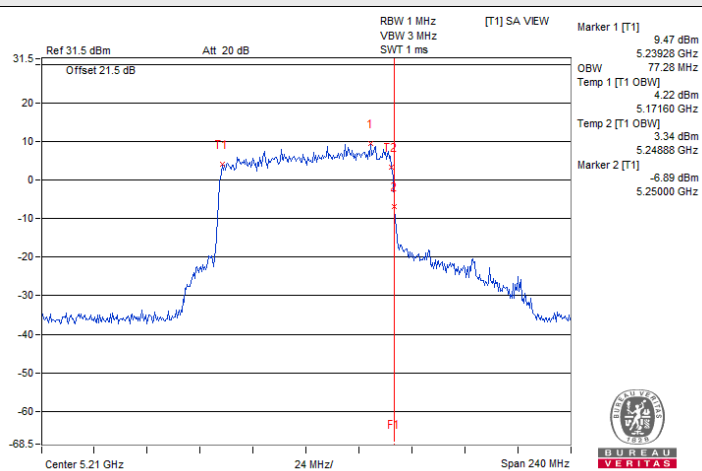


802.11ax (HE40) / Chain 3 : CH 46

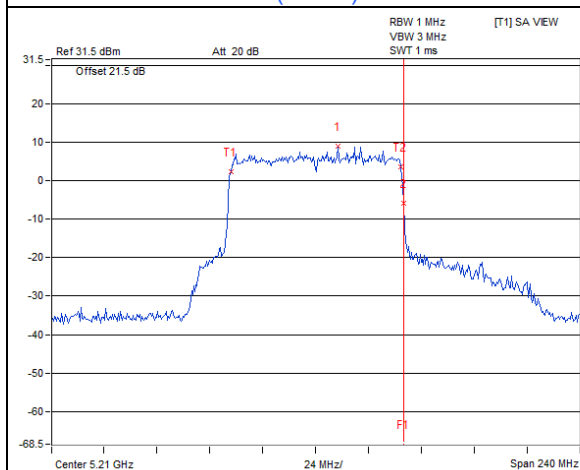
Spectrum Plot for nearby DFS band (DFS is required, if 99% OCP straddle into U-NII-2A)



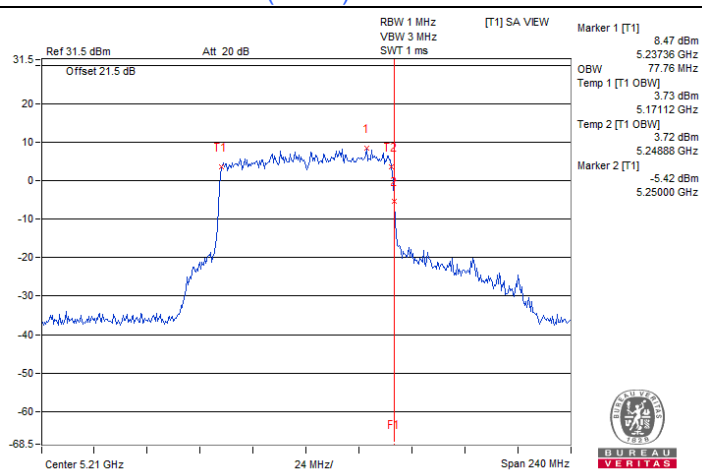
802.11ax (HE80) / Chain 0 : CH 42



802.11ax (HE80) / Chain 1 : CH 42

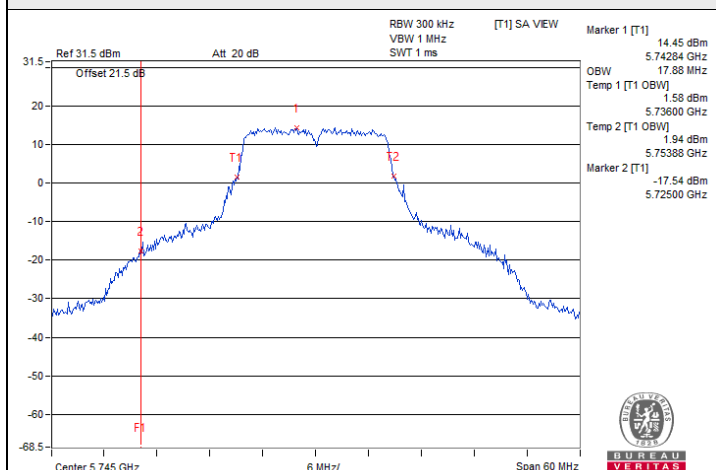


802.11ax (HE80) / Chain 2 : CH 42

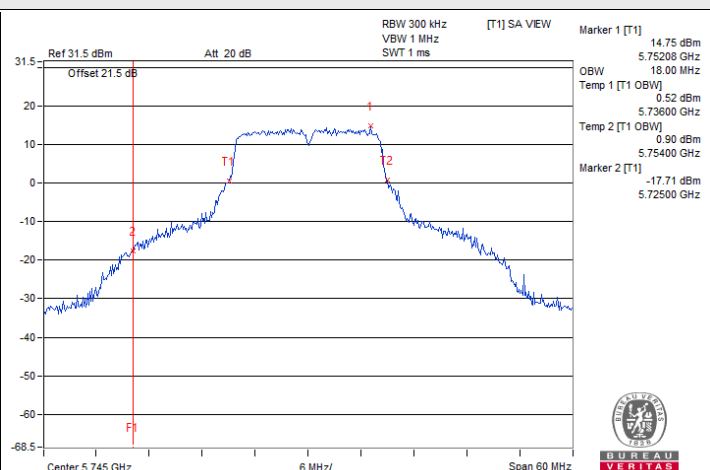


802.11ax (HE80) / Chain 3 : CH 42

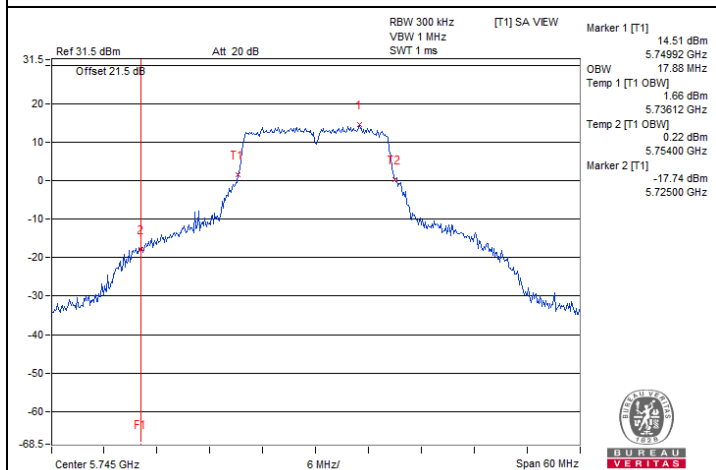
Spectrum Plot for nearby DFS band (DFS is required, if 99% OCP straddle into U-NII-2C)



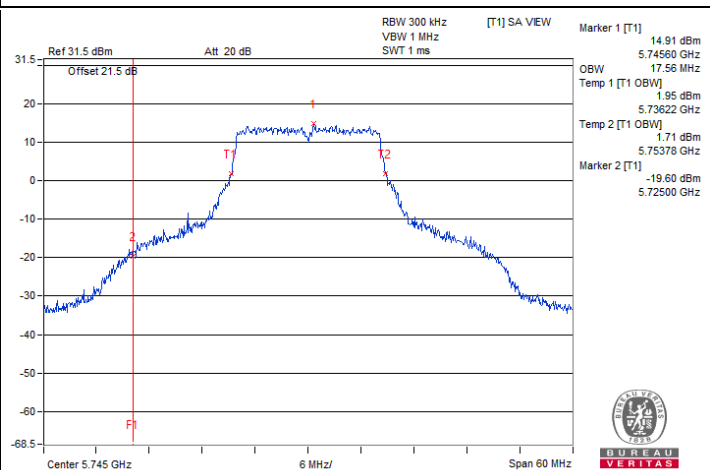
802.11a / Chain 0 : CH 149



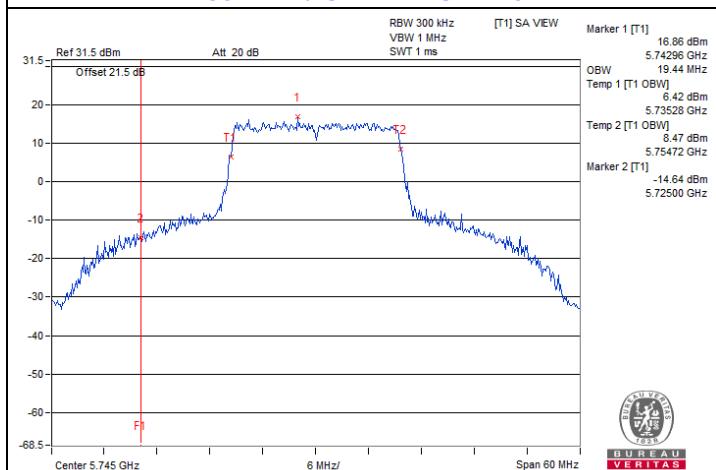
802.11a / Chain 1 : CH 149



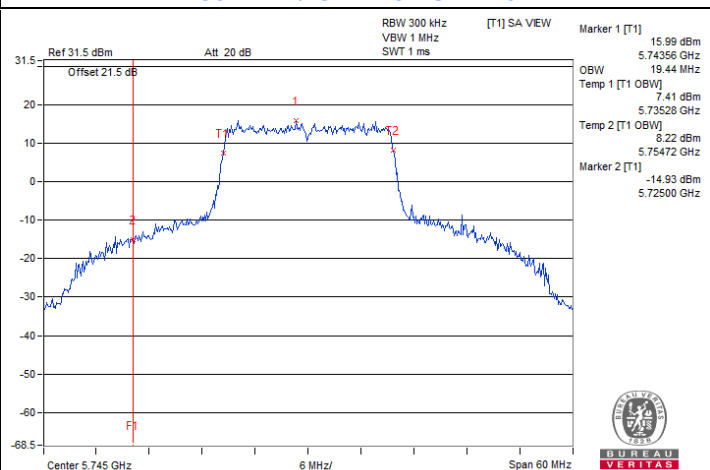
802.11a / Chain 2 : CH 149



802.11a / Chain 3 : CH 149

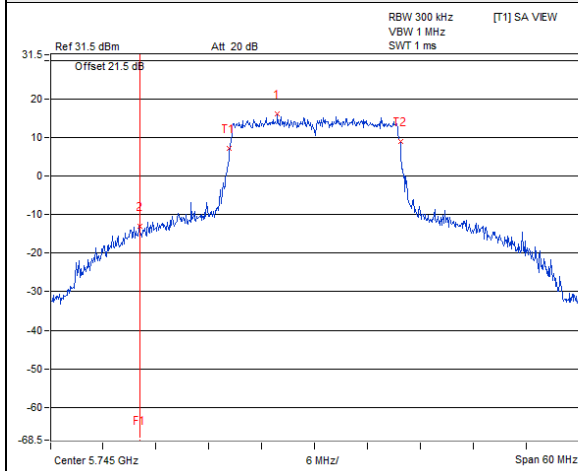


802.11ax (HE20) / Chain 0 : CH 149

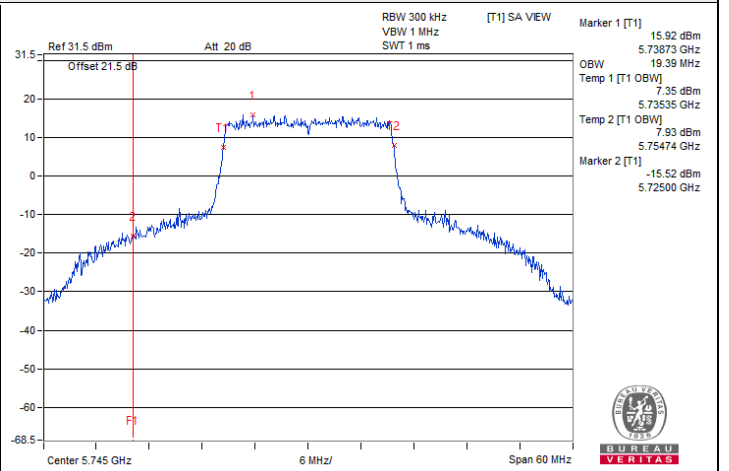


802.11ax (HE20) / Chain 1 : CH 149

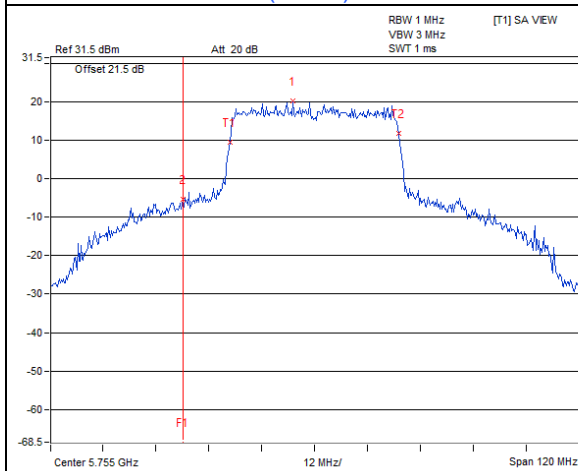
Spectrum Plot for nearby DFS band (DFS is required, if 99% OCP straddle into U-NII-2C)



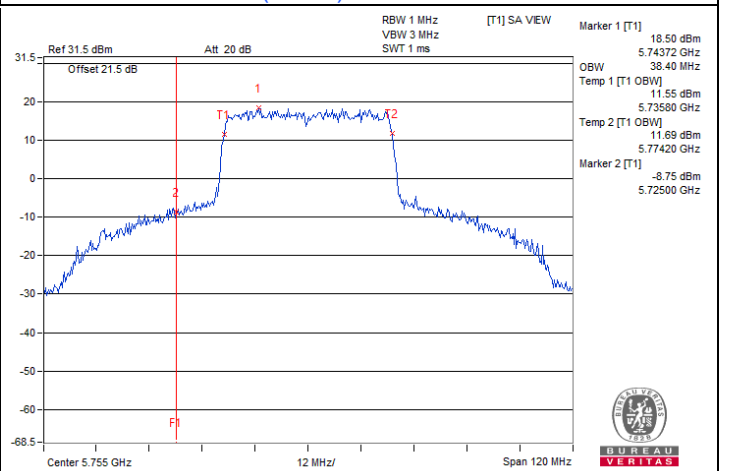
802.11ax (HE20) / Chain 2 : CH 149



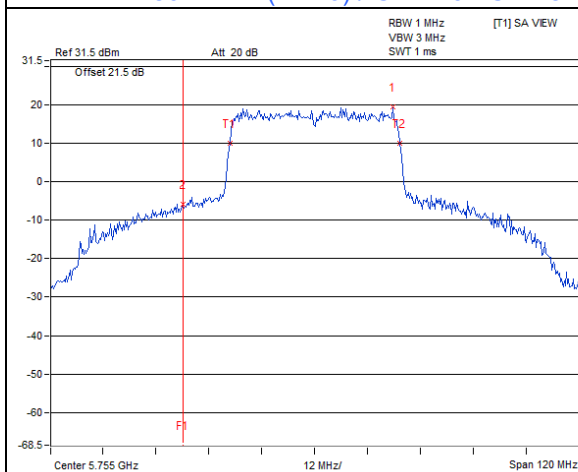
802.11ax (HE20) / Chain 3 : CH 149



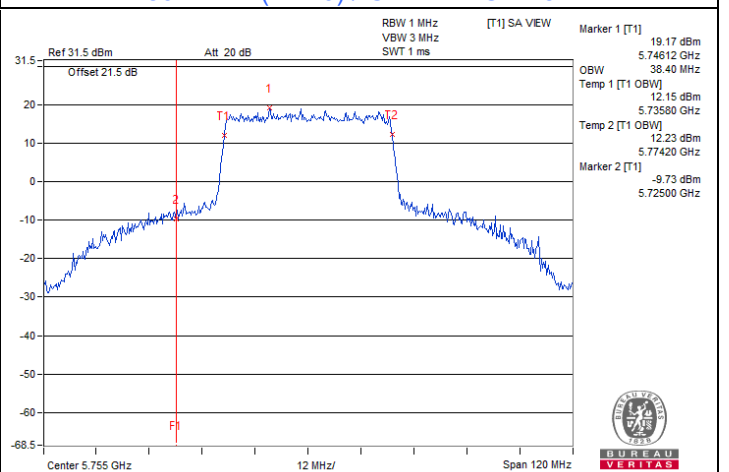
802.11ax (HE40) / Chain 0 : CH 151



802.11ax (HE40) / Chain 1 : CH 151

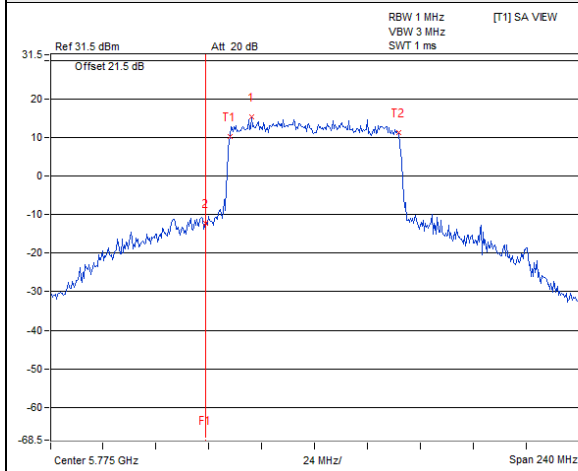


802.11ax (HE40) / Chain 2 : CH 151

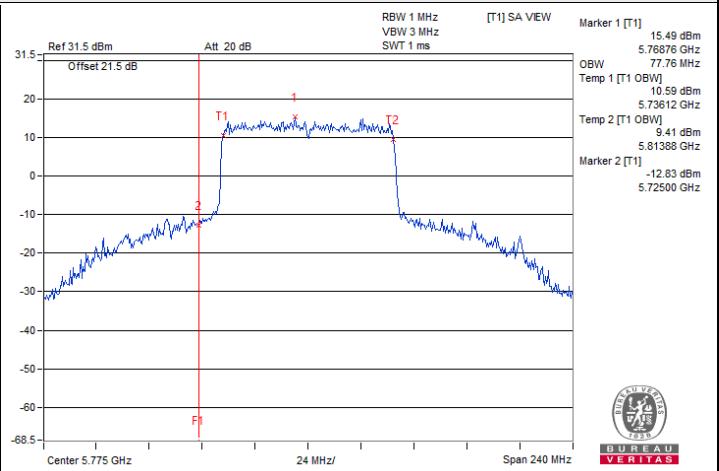


802.11ax (HE40) / Chain 3 : CH 151

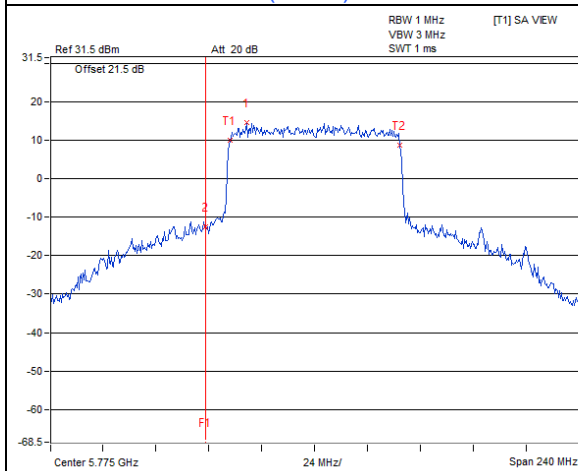
Spectrum Plot for nearby DFS band (DFS is required, if 99% OCP straddle into U-NII-2C)



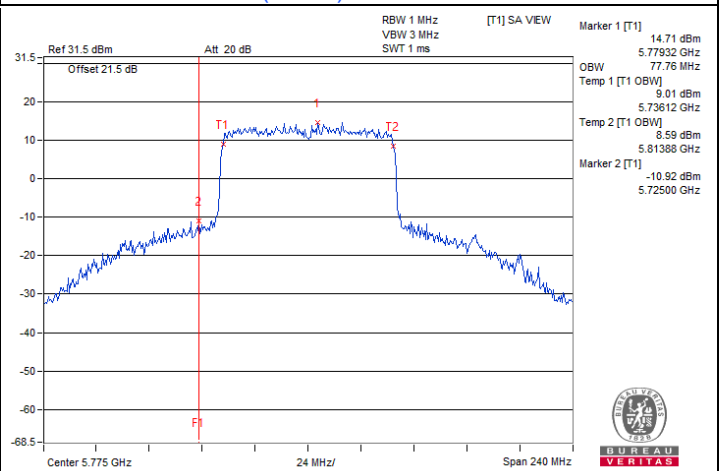
802.11ax (HE80) / Chain 0 : CH 155



802.11ax (HE80) / Chain 1 : CH 155



802.11ax (HE80) / Chain 2 : CH 155



802.11ax (HE80) / Chain 3 : CH 155

7.6 Frequency Stability

Input Power:	120 Vac, 60 Hz	Environmental Conditions:	24°C, 64% RH	Tested By:	Katina Lu
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802.11a

Frequency Stability Versus Temperature									
Operating Frequency: 5180 MHz									
Temp. (°C)	Power Supply (Vac)	0 Minute		2 Minutes		5 Minutes		10 Minutes	
		Measured Frequency (MHz)	Test Result	Measured Frequency (MHz)	Test Result	Measured Frequency (MHz)	Test Result	Measured Frequency (MHz)	Test Result
40	120	5179.9774	Pass	5179.9762	Pass	5179.9731	Pass	5179.9773	Pass
30	120	5180.0103	Pass	5180.0113	Pass	5180.0148	Pass	5180.0147	Pass
20	120	5180.0061	Pass	5180.0088	Pass	5180.0072	Pass	5180.0085	Pass
10	120	5179.9807	Pass	5179.9772	Pass	5179.981	Pass	5179.9814	Pass
0	120	5179.9924	Pass	5179.9922	Pass	5179.9967	Pass	5179.9934	Pass

Frequency Stability Versus Voltage									
Operating Frequency: 5180 MHz									
Temp. (°C)	Power Supply (Vac)	0 Minute		2 Minutes		5 Minutes		10 Minutes	
		Measured Frequency (MHz)	Test Result	Measured Frequency (MHz)	Test Result	Measured Frequency (MHz)	Test Result	Measured Frequency (MHz)	Test Result
20	138	5180.0029	Pass	5179.9999	Pass	5180.0023	Pass	5180.0029	Pass
	120	5180.0061	Pass	5180.0088	Pass	5180.0072	Pass	5180.0085	Pass
	102	5180.0114	Pass	5180.0117	Pass	5180.008	Pass	5180.0101	Pass

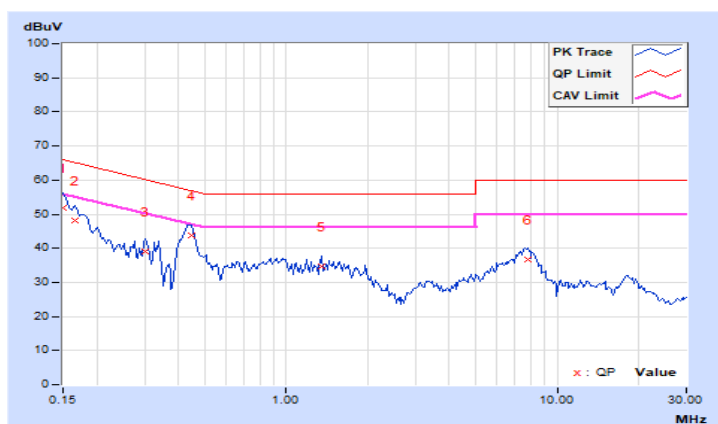
7.7 AC Power Conducted Emissions

RF Mode	802.11ax (HE40)	Channel	CH 151 : 5755 MHz
Frequency Range	150kHz ~ 30MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	22°C, 69% RH
Tested By	Sampson Chen		

Phase Of Power : Line (L)										
No	Frequency (MHz)	Correction Factor (dB)	Reading Value (dBuV)		Emission Level (dBuV)		Limit (dBuV)		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15000	9.98	41.87	27.27	51.85	37.25	66.00	56.00	-14.15	-18.75
2	0.16562	9.98	38.18	24.05	48.16	34.03	65.18	55.18	-17.02	-21.15
3	0.30234	9.99	29.18	21.85	39.17	31.84	60.18	50.18	-21.01	-18.34
4	0.44688	9.99	33.94	25.46	43.93	35.45	56.93	46.93	-13.00	-11.48
5	1.34766	10.05	24.54	18.07	34.59	28.12	56.00	46.00	-21.41	-17.88
6	7.76953	10.51	26.19	21.54	36.70	32.05	60.00	50.00	-23.30	-17.95

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

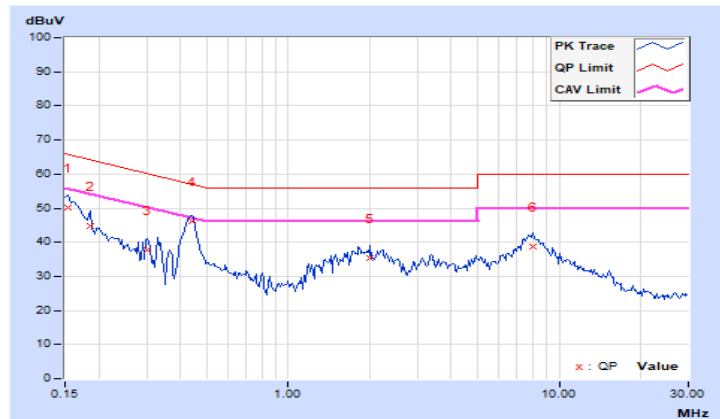


RF Mode	802.11ax (HE40)	Channel	CH 151 : 5755 MHz
Frequency Range	150kHz ~ 30MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	22°C, 69% RH
Tested By	Sampson Chen		

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	0.15391	10.02	40.00	24.57	50.02	34.59	65.79	55.79	-15.77	-21.20
2	0.18516	10.03	34.88	20.64	44.91	30.67	64.25	54.25	-19.34	-23.58
3	0.30234	10.04	27.58	20.59	37.62	30.63	60.18	50.18	-22.56	-19.55
4	0.43906	10.04	35.95	26.60	45.99	36.64	57.08	47.08	-11.09	-10.44
5	2.01563	10.15	25.10	20.77	35.25	30.92	56.00	46.00	-20.75	-15.08
6	8.02344	10.53	28.33	23.68	38.86	34.21	60.00	50.00	-21.14	-15.79

Remarks:

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



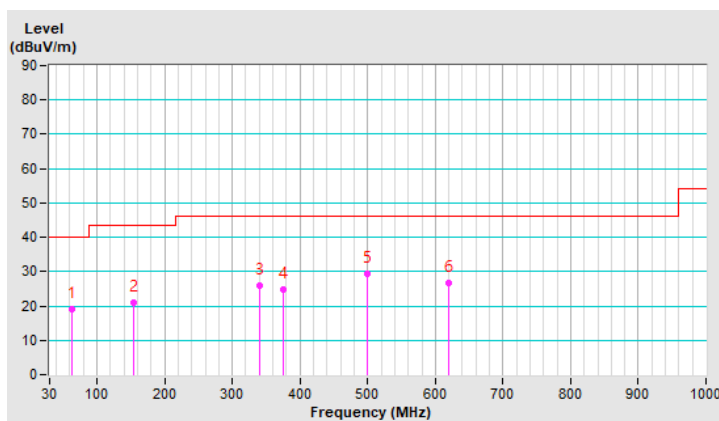
7.8 Unwanted Emissions below 1 GHz

RF Mode	802.11ax (HE40)	Channel	CH 151 : 5755 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	(QP) RB = 120kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Sampson Chen		

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	63.21	19.0 QP	40.0	-21.0	3.00 H	270	33.0	-14.0
2	154.27	21.0 QP	43.5	-22.5	1.00 H	277	34.0	-13.0
3	339.63	25.9 QP	46.0	-20.1	1.00 H	80	37.5	-11.6
4	375.03	24.9 QP	46.0	-21.1	1.00 H	197	35.4	-10.5
5	499.98	29.3 QP	46.0	-16.7	1.50 H	167	36.9	-7.6
6	620.63	26.7 QP	46.0	-19.3	1.50 H	285	31.3	-4.6

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 emission levels were very low against the limit of frequency range 9 kHz ~ 30 MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.

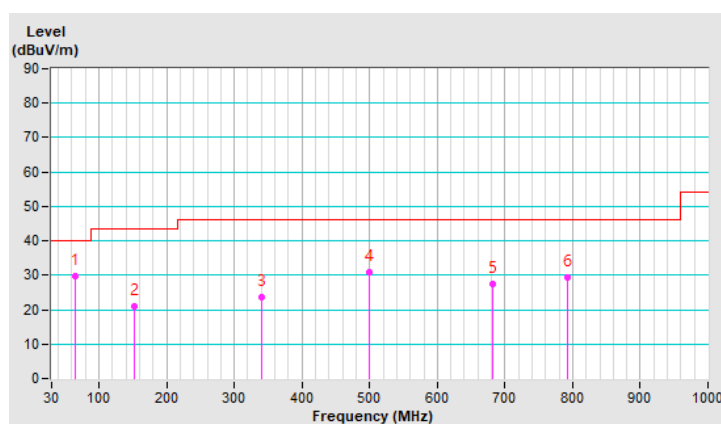


RF Mode	802.11ax (HE40)	Channel	CH 151 : 5755 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	(QP) RB = 120kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Sampson Chen		

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	64.52	29.7 QP	40.0	-10.3	2.00 V	5	44.2	-14.5
2	152.91	20.8 QP	43.5	-22.7	1.00 V	288	33.9	-13.1
3	340.00	23.6 QP	46.0	-22.4	1.00 V	101	35.2	-11.6
4	500.10	30.7 QP	46.0	-15.3	1.00 V	333	38.3	-7.6
5	682.39	27.5 QP	46.0	-18.5	2.00 V	33	31.7	-4.2
6	792.41	29.3 QP	46.0	-16.7	1.50 V	255	31.7	-2.4

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The emission levels were very low against the limit of frequency range 9 kHz ~ 30 MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.



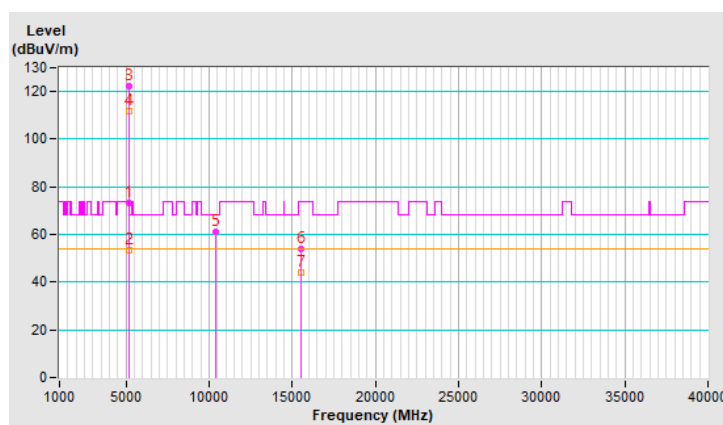
7.9 Unwanted Emissions above 1 GHz

RF Mode	802.11a	Channel	CH 36 : 5180 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 71% RH
Tested By	Nelson Teng		

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	5144.96	73.4 PK	74.0	-0.6	1.88 H	171	67.8	5.6
2	5144.96	53.2 AV	54.0	-0.8	1.88 H	171	47.6	5.6
3	*5180.00	122.3 PK			1.88 H	171	116.7	5.6
4	*5180.00	112.0 AV			1.88 H	171	106.4	5.6
5	#10360.00	61.0 PK	68.2	-7.2	2.05 H	136	45.5	15.5
6	15540.00	54.0 PK	74.0	-20.0	1.78 H	53	37.6	16.4
7	15540.00	43.8 AV	54.0	-10.2	1.78 H	53	27.4	16.4

Remarks:

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

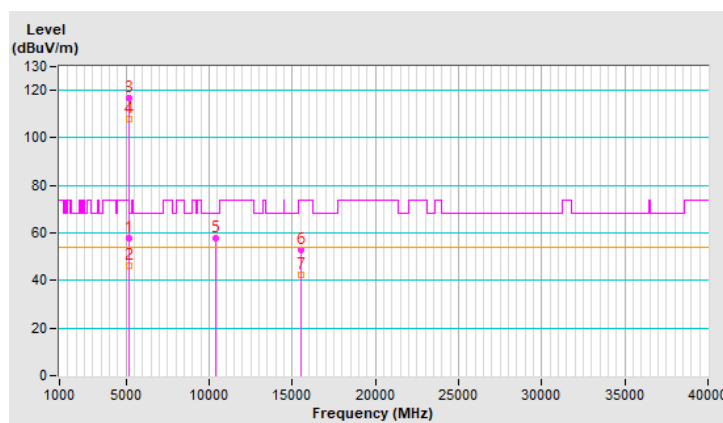


RF Mode	802.11a	Channel	CH 36 : 5180 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 71% RH
Tested By	Nelson Teng		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	57.8 PK	74.0	-16.2	2.83 V	89	52.2	5.6
2	5150.00	46.2 AV	54.0	-7.8	2.83 V	89	40.6	5.6
3	*5180.00	117.0 PK			2.83 V	89	111.4	5.6
4	*5180.00	107.7 AV			2.83 V	89	102.1	5.6
5	#10360.00	57.6 PK	68.2	-10.6	1.30 V	78	42.1	15.5
6	15540.00	53.1 PK	74.0	-20.9	1.64 V	101	36.7	16.4
7	15540.00	42.3 AV	54.0	-11.7	1.64 V	101	25.9	16.4

Remarks:

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

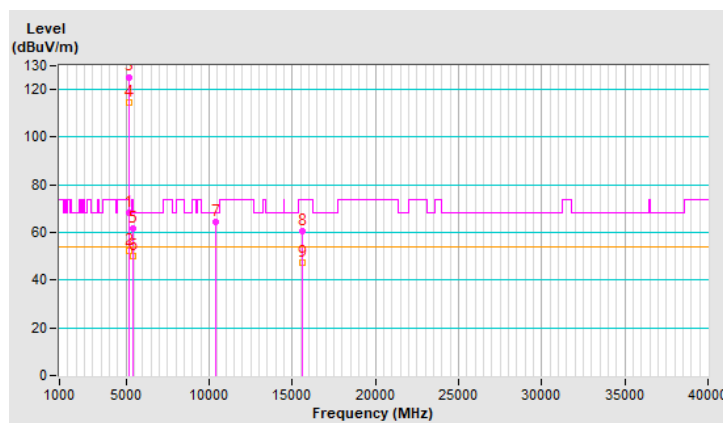


RF Mode	802.11a	Channel	CH 40 : 5200 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 71% RH
Tested By	Nelson Teng		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5145.15	68.1 PK	74.0	-5.9	1.91 H	178	62.5	5.6
2	5145.15	52.1 AV	54.0	-1.9	1.91 H	178	46.5	5.6
3	*5200.00	125.3 PK			1.91 H	178	119.8	5.5
4	*5200.00	114.5 AV			1.91 H	178	109.0	5.5
5	5405.26	61.6 PK	74.0	-12.4	1.91 H	178	56.1	5.5
6	5405.26	50.3 AV	54.0	-3.7	1.91 H	178	44.8	5.5
7	#10400.00	64.6 PK	68.2	-3.6	2.08 H	125	49.0	15.6
8	15600.00	60.6 PK	74.0	-13.4	1.78 H	39	43.9	16.7
9	15600.00	47.4 AV	54.0	-6.6	1.78 H	39	30.7	16.7

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.

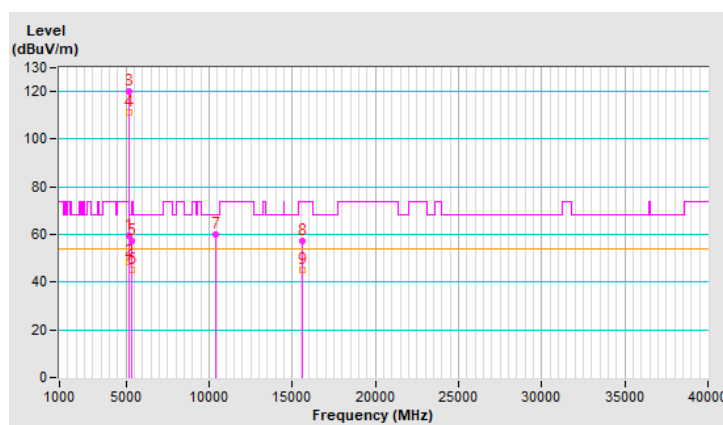


RF Mode	802.11a	Channel	CH 40 : 5200 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 71% RH
Tested By	Nelson Teng		

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	59.3 PK	74.0	-14.7	2.79 V	94	53.7	5.6
2	5150.00	48.3 AV	54.0	-5.7	2.79 V	94	42.7	5.6
3	*5200.00	120.3 PK			2.79 V	94	114.8	5.5
4	*5200.00	111.1 AV			2.79 V	94	105.6	5.5
5	5350.00	57.3 PK	74.0	-16.7	2.79 V	94	51.8	5.5
6	5350.00	45.3 AV	54.0	-8.7	2.79 V	94	39.8	5.5
7	#10400.00	60.1 PK	68.2	-8.1	1.30 V	73	44.5	15.6
8	15600.00	57.3 PK	74.0	-16.7	1.67 V	98	40.6	16.7
9	15600.00	45.3 AV	54.0	-8.7	1.67 V	98	28.6	16.7

Remarks:

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

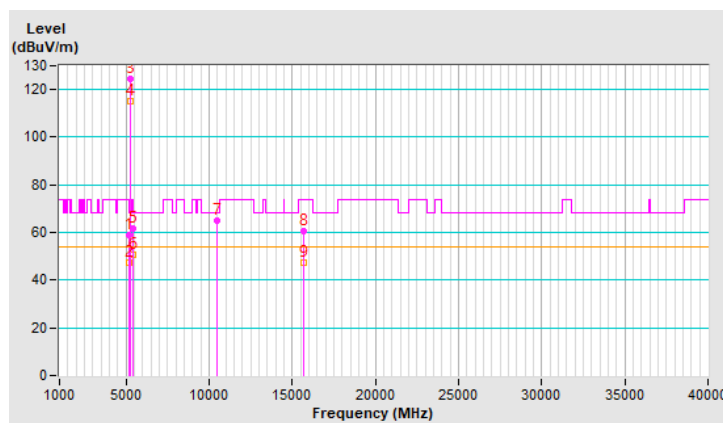


RF Mode	802.11a	Channel	CH 48 : 5240 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 71% RH
Tested By	Nelson Teng		

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	59.0 PK	74.0	-15.0	1.91 H	169	53.4	5.6
2	5150.00	47.3 AV	54.0	-6.7	1.91 H	169	41.7	5.6
3	*5240.00	124.7 PK			1.91 H	169	119.5	5.2
4	*5240.00	114.9 AV			1.91 H	169	109.7	5.2
5	5446.27	61.7 PK	74.0	-12.3	1.91 H	169	56.1	5.6
6	5446.27	50.5 AV	54.0	-3.5	1.91 H	169	44.9	5.6
7	#10480.00	64.9 PK	68.2	-3.3	2.12 H	139	49.1	15.8
8	15720.00	60.8 PK	74.0	-13.2	1.76 H	45	44.2	16.6
9	15720.00	47.5 AV	54.0	-6.5	1.76 H	45	30.9	16.6

Remarks:

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

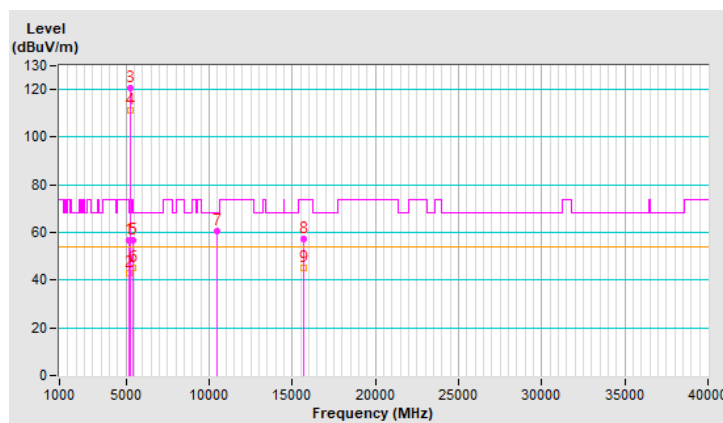


RF Mode	802.11a	Channel	CH 48 : 5240 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 71% RH
Tested By	Nelson Teng		

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	56.7 PK	74.0	-17.3	2.24 V	71	51.1	5.6
2	5150.00	43.0 AV	54.0	-11.0	2.24 V	71	37.4	5.6
3	*5240.00	120.7 PK			2.24 V	71	115.5	5.2
4	*5240.00	111.2 AV			2.24 V	71	106.0	5.2
5	5433.80	56.8 PK	74.0	-17.2	2.24 V	71	51.3	5.5
6	5433.80	45.1 AV	54.0	-8.9	2.24 V	71	39.6	5.5
7	#10480.00	60.6 PK	68.2	-7.6	1.27 V	87	44.8	15.8
8	15720.00	57.4 PK	74.0	-16.6	1.70 V	99	40.8	16.6
9	15720.00	45.1 AV	54.0	-8.9	1.70 V	99	28.5	16.6

Remarks:

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

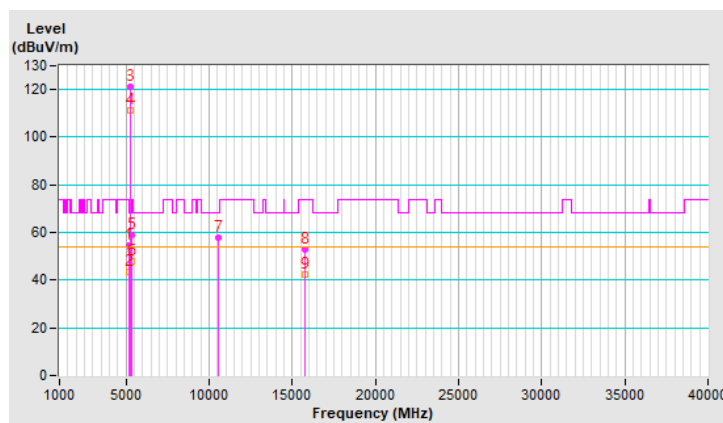


RF Mode	802.11a	Channel	CH 52 : 5260 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 71% RH
Tested By	Nelson Teng		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	54.7 PK	74.0	-19.3	2.02 H	172	49.1	5.6
2	5150.00	43.6 AV	54.0	-10.4	2.02 H	172	38.0	5.6
3	*5260.00	121.0 PK			2.02 H	172	115.8	5.2
4	*5260.00	111.3 AV			2.02 H	172	106.1	5.2
5	5350.00	59.0 PK	74.0	-15.0	2.02 H	172	53.5	5.5
6	5350.00	48.0 AV	54.0	-6.0	2.02 H	172	42.5	5.5
7	#10520.00	58.0 PK	68.2	-10.2	2.08 H	113	42.0	16.0
8	15780.00	52.8 PK	74.0	-21.2	1.74 H	27	36.1	16.7
9	15780.00	42.3 AV	54.0	-11.7	1.74 H	27	25.6	16.7

Remarks:

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

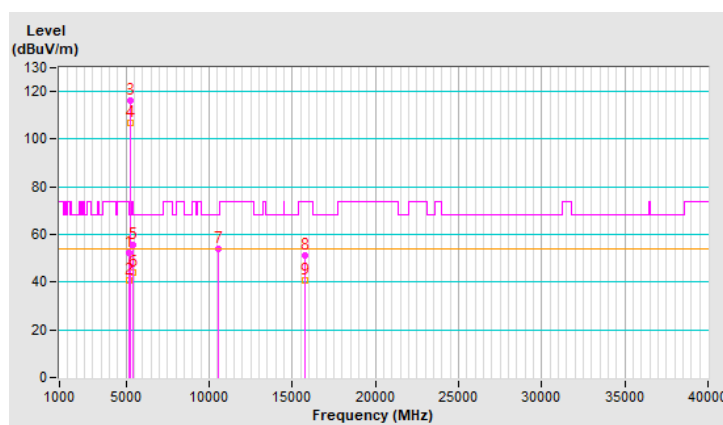


RF Mode	802.11a	Channel	CH 52 : 5260 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 71% RH
Tested By	Nelson Teng		

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	52.5 PK	74.0	-21.5	2.99 V	113	46.9	5.6
2	5150.00	40.5 AV	54.0	-13.5	2.99 V	113	34.9	5.6
3	*5260.00	116.4 PK			2.99 V	113	111.2	5.2
4	*5260.00	107.0 AV			2.99 V	113	101.8	5.2
5	5458.50	55.8 PK	74.0	-18.2	2.99 V	113	50.2	5.6
6	5458.50	43.9 AV	54.0	-10.1	2.99 V	113	38.3	5.6
7	#10520.00	54.2 PK	68.2	-14.0	1.24 V	80	38.2	16.0
8	15780.00	51.0 PK	74.0	-23.0	1.65 V	87	34.3	16.7
9	15780.00	40.6 AV	54.0	-13.4	1.65 V	87	23.9	16.7

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.

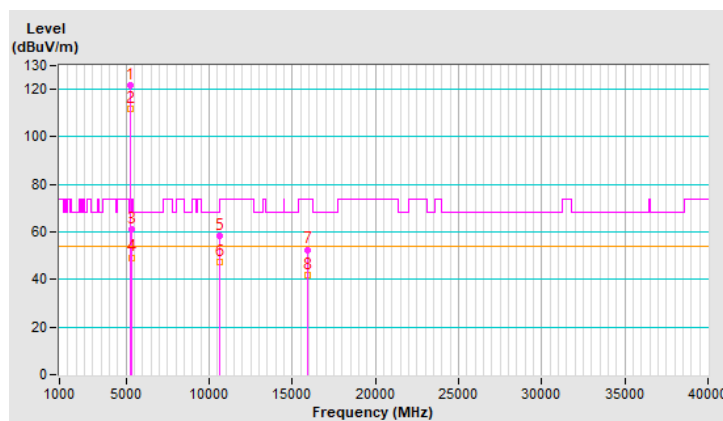


RF Mode	802.11a	Channel	CH 60 : 5300 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 71% RH
Tested By	Nelson Teng		

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	121.7 PK			1.88 H	191	116.5	5.2
2	*5300.00	111.6 AV			1.88 H	191	106.4	5.2
3	5350.00	61.0 PK	74.0	-13.0	1.88 H	191	55.5	5.5
4	5350.00	49.3 AV	54.0	-4.7	1.88 H	191	43.8	5.5
5	10600.00	58.3 PK	74.0	-15.7	2.10 H	138	42.5	15.8
6	10600.00	47.6 AV	54.0	-6.4	2.10 H	138	31.8	15.8
7	15900.00	52.6 PK	74.0	-21.4	1.75 H	53	36.2	16.4
8	15900.00	41.8 AV	54.0	-12.2	1.75 H	53	25.4	16.4

Remarks:

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

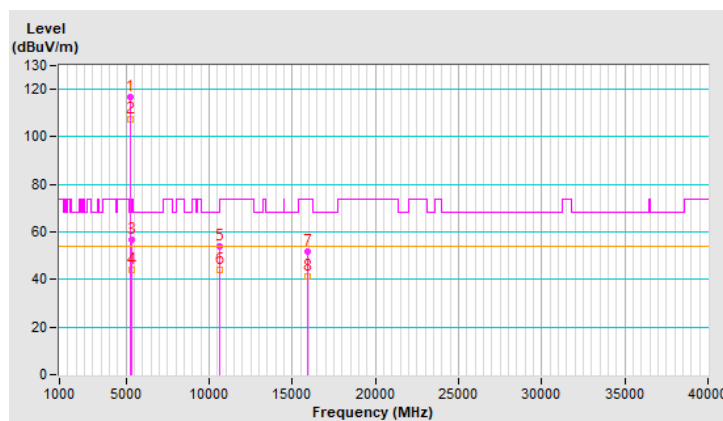


RF Mode	802.11a	Channel	CH 60 : 5300 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 71% RH
Tested By	Nelson Teng		

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	116.6 PK			2.95 V	106	111.4	5.2
2	*5300.00	107.2 AV			2.95 V	106	102.0	5.2
3	5350.00	56.6 PK	74.0	-17.4	2.95 V	106	51.1	5.5
4	5350.00	44.3 AV	54.0	-9.7	2.95 V	106	38.8	5.5
5	10600.00	54.2 PK	74.0	-19.8	1.36 V	64	38.4	15.8
6	10600.00	43.9 AV	54.0	-10.1	1.36 V	64	28.1	15.8
7	15900.00	51.6 PK	74.0	-22.4	1.62 V	89	35.2	16.4
8	15900.00	41.1 AV	54.0	-12.9	1.62 V	89	24.7	16.4

Remarks:

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

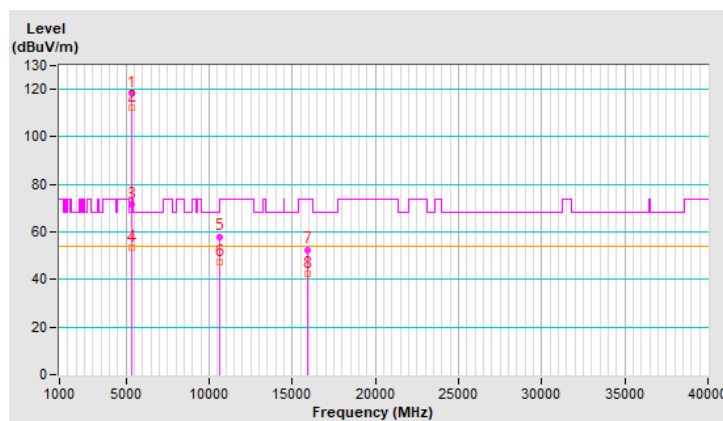


RF Mode	802.11a	Channel	CH 64 : 5320 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 71% RH
Tested By	Nelson Teng		

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	118.6 PK			2.06 H	169	113.3	5.3
2	*5320.00	112.1 AV			2.06 H	169	106.8	5.3
3	5350.00	71.7 PK	74.0	-2.3	2.06 H	169	66.2	5.5
4	5350.00	53.2 AV	54.0	-0.8	2.06 H	169	47.7	5.5
5	10640.00	58.1 PK	74.0	-15.9	2.10 H	113	42.1	16.0
6	10640.00	47.2 AV	54.0	-6.8	2.10 H	113	31.2	16.0
7	15960.00	52.6 PK	74.0	-21.4	1.84 H	45	35.7	16.9
8	15960.00	42.3 AV	54.0	-11.7	1.84 H	45	25.4	16.9

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.

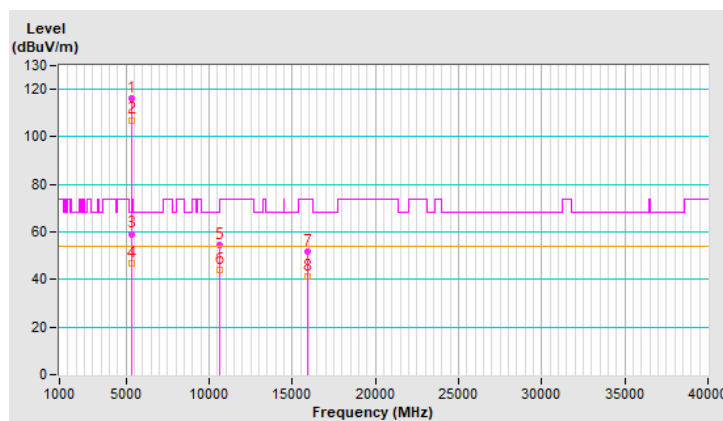


RF Mode	802.11a	Channel	CH 64 : 5320 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 71% RH
Tested By	Nelson Teng		

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	116.2 PK			2.28 V	71	110.9	5.3
2	*5320.00	107.1 AV			2.28 V	71	101.8	5.3
3	5353.85	59.2 PK	74.0	-14.8	2.28 V	71	53.7	5.5
4	5353.85	46.9 AV	54.0	-7.1	2.28 V	71	41.4	5.5
5	10640.00	54.5 PK	74.0	-19.5	1.35 V	61	38.5	16.0
6	10640.00	44.0 AV	54.0	-10.0	1.35 V	61	28.0	16.0
7	15960.00	51.6 PK	74.0	-22.4	1.64 V	102	34.7	16.9
8	15960.00	41.3 AV	54.0	-12.7	1.64 V	102	24.4	16.9

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.

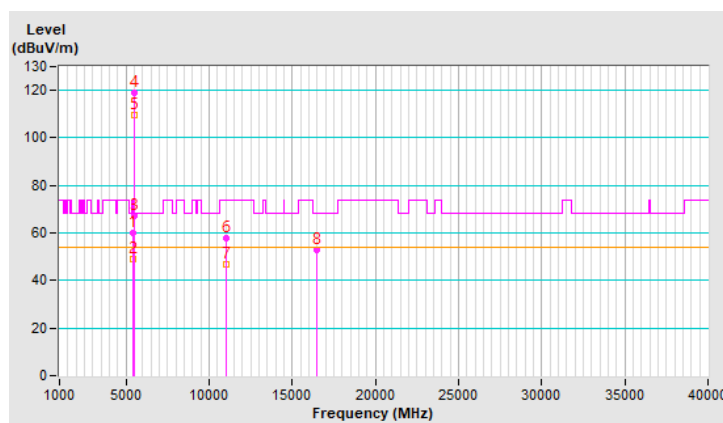


RF Mode	802.11a	Channel	CH 100 : 5500 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 71% RH
Tested By	Nelson Teng		

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	59.9 PK	74.0	-14.1	2.13 H	179	54.3	5.6
2	5460.00	48.8 AV	54.0	-5.2	2.13 H	179	43.2	5.6
3	#5470.00	67.1 PK	68.2	-1.1	2.13 H	179	61.5	5.6
4	*5500.00	118.9 PK			2.13 H	179	113.2	5.7
5	*5500.00	109.7 AV			2.13 H	179	104.0	5.7
6	11000.00	57.7 PK	74.0	-16.3	2.05 H	137	41.1	16.6
7	11000.00	47.0 AV	54.0	-7.0	2.05 H	137	30.4	16.6
8	#16500.00	52.7 PK	68.2	-15.5	1.84 H	32	33.9	18.8

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.

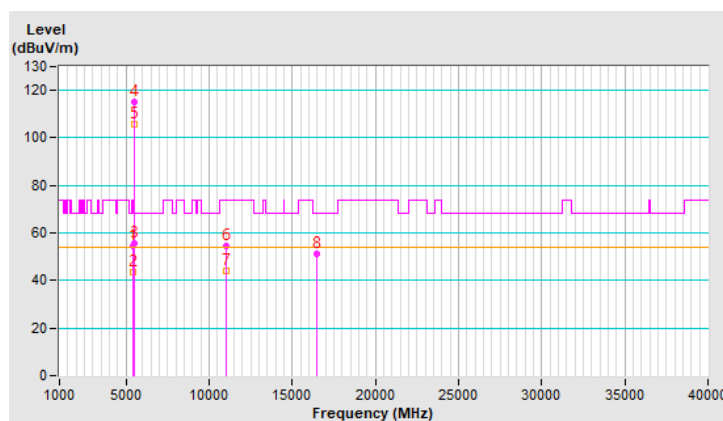


RF Mode	802.11a	Channel	CH 100 : 5500 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 71% RH
Tested By	Nelson Teng		

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	54.7 PK	74.0	-19.3	3.90 V	95	49.1	5.6
2	5460.00	43.7 AV	54.0	-10.3	3.90 V	95	38.1	5.6
3	#5470.00	55.7 PK	68.2	-12.5	3.90 V	95	50.1	5.6
4	*5500.00	115.2 PK			3.90 V	95	109.5	5.7
5	*5500.00	105.8 AV			3.90 V	95	100.1	5.7
6	11000.00	54.4 PK	74.0	-19.6	1.35 V	60	37.8	16.6
7	11000.00	44.1 AV	54.0	-9.9	1.35 V	60	27.5	16.6
8	#16500.00	51.4 PK	68.2	-16.8	1.71 V	101	32.6	18.8

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.

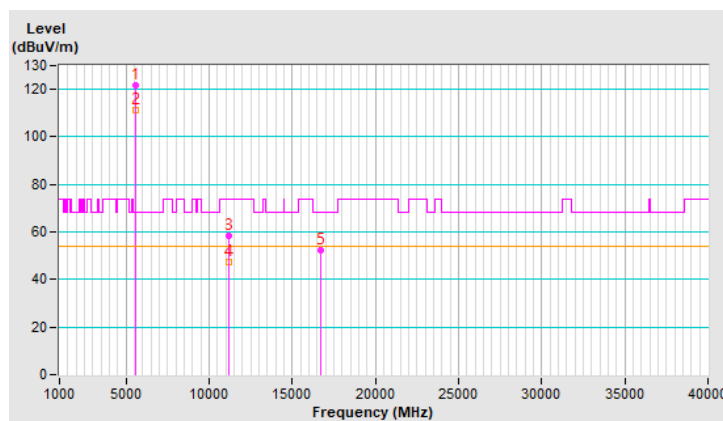


RF Mode	802.11a	Channel	CH 116 : 5580 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 71% RH
Tested By	Nelson Teng		

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	121.7 PK			1.91 H	163	116.1	5.6
2	*5580.00	111.3 AV			1.91 H	163	105.7	5.6
3	11160.00	58.3 PK	74.0	-15.7	2.07 H	121	42.3	16.0
4	11160.00	47.6 AV	54.0	-6.4	2.07 H	121	31.6	16.0
5	#16740.00	52.3 PK	68.2	-15.9	1.78 H	45	31.4	20.9

Remarks:

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

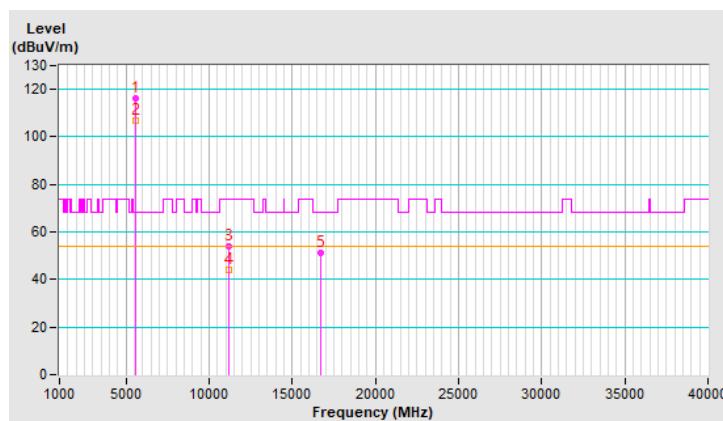


RF Mode	802.11a	Channel	CH 116 : 5580 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 71% RH
Tested By	Nelson Teng		

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	116.2 PK			3.00 V	105	110.6	5.6
2	*5580.00	107.0 AV			3.00 V	105	101.4	5.6
3	11160.00	54.1 PK	74.0	-19.9	1.27 V	73	38.1	16.0
4	11160.00	43.8 AV	54.0	-10.2	1.27 V	73	27.8	16.0
5	#16740.00	51.2 PK	68.2	-17.0	1.68 V	100	30.3	20.9

Remarks:

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

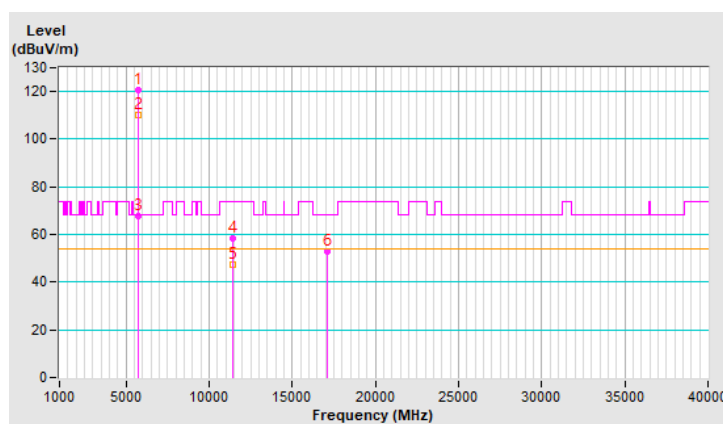


RF Mode	802.11a	Channel	CH 140 : 5700 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 71% RH
Tested By	Nelson Teng		

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	120.6 PK			1.77 H	169	114.9	5.7
2	*5700.00	110.0 AV			1.77 H	169	104.3	5.7
3	#5725.00	67.6 PK	68.2	-0.6	1.77 H	169	61.8	5.8
4	11400.00	58.4 PK	74.0	-15.6	2.05 H	134	41.7	16.7
5	11400.00	47.6 AV	54.0	-6.4	2.05 H	134	30.9	16.7
6	#17100.00	53.1 PK	68.2	-15.1	1.81 H	45	31.5	21.6

Remarks:

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

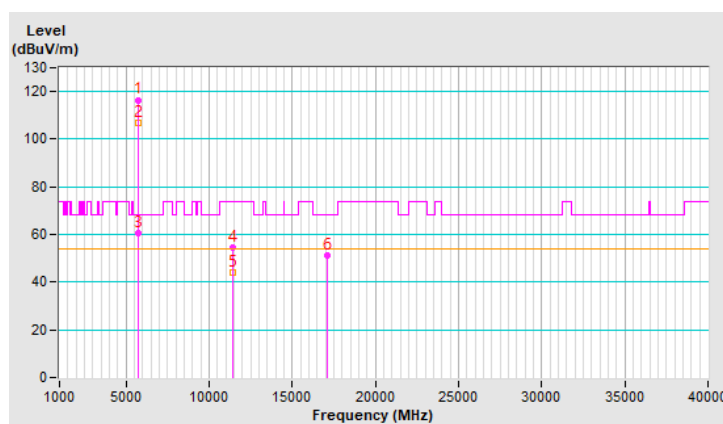


RF Mode	802.11a	Channel	CH 140 : 5700 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 71% RH
Tested By	Nelson Teng		

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	116.5 PK			2.94 V	103	110.8	5.7
2	*5700.00	106.9 AV			2.94 V	103	101.2	5.7
3	#5725.00	60.8 PK	68.2	-7.4	2.94 V	103	55.0	5.8
4	11400.00	54.5 PK	74.0	-19.5	1.36 V	67	37.8	16.7
5	11400.00	44.0 AV	54.0	-10.0	1.36 V	67	27.3	16.7
6	#17100.00	51.4 PK	68.2	-16.8	1.70 V	101	29.8	21.6

Remarks:

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

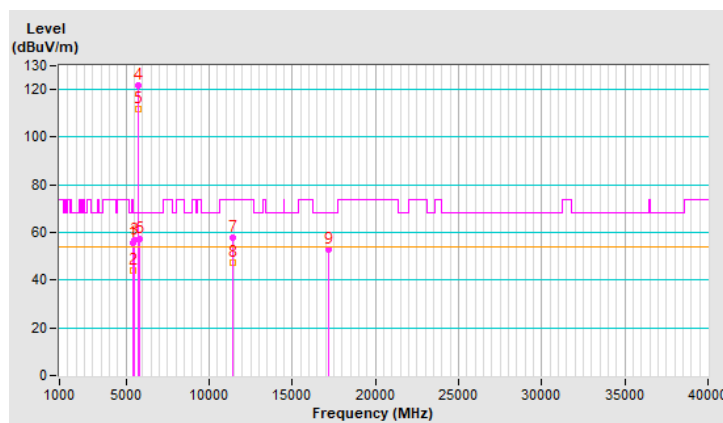


RF Mode	802.11a	Channel	CH 144 : 5720 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 71% RH
Tested By	Nelson Teng		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	55.6 PK	74.0	-18.4	1.88 H	176	50.0	5.6
2	5460.00	44.3 AV	54.0	-9.7	1.88 H	176	38.7	5.6
3	#5470.00	56.7 PK	68.2	-11.5	1.88 H	176	51.1	5.6
4	*5720.00	121.8 PK			1.88 H	176	116.0	5.8
5	*5720.00	111.9 AV			1.88 H	176	106.1	5.8
6	#5850.00	57.2 PK	68.2	-11.0	1.88 H	176	50.7	6.5
7	11440.00	57.8 PK	74.0	-16.2	2.03 H	114	41.0	16.8
8	11440.00	47.3 AV	54.0	-6.7	2.03 H	114	30.5	16.8
9	#17160.00	53.0 PK	68.2	-15.2	1.74 H	47	31.7	21.3

Remarks:

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

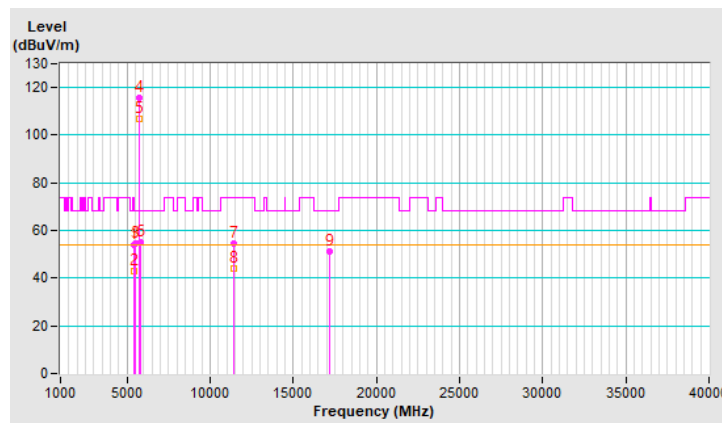


RF Mode	802.11a	Channel	CH 144 : 5720 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 71% RH
Tested By	Nelson Teng		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	53.8 PK	74.0	-20.2	3.00 V	123	48.2	5.6
2	5460.00	42.8 AV	54.0	-11.2	3.00 V	123	37.2	5.6
3	#5470.00	54.6 PK	68.2	-13.6	3.00 V	123	49.0	5.6
4	*5720.00	115.8 PK			3.00 V	123	110.0	5.8
5	*5720.00	106.7 AV			3.00 V	123	100.9	5.8
6	#5850.00	55.0 PK	68.2	-13.2	3.00 V	123	48.5	6.5
7	11440.00	54.3 PK	74.0	-19.7	1.27 V	84	37.5	16.8
8	11440.00	44.1 AV	54.0	-9.9	1.27 V	84	27.3	16.8
9	#17160.00	51.1 PK	68.2	-17.1	1.62 V	112	29.8	21.3

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.

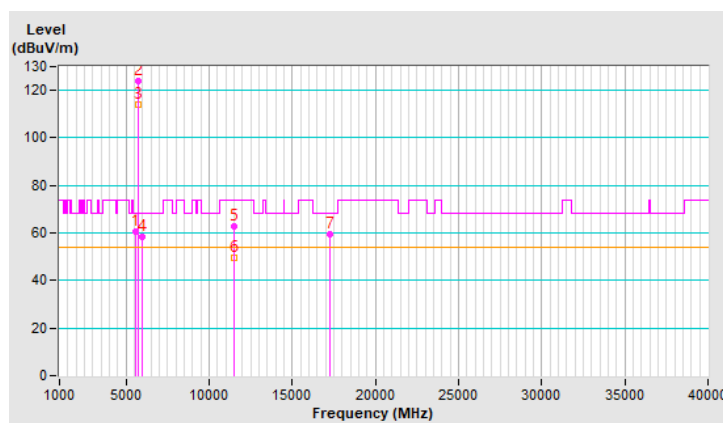


RF Mode	802.11a	Channel	CH 149 : 5745 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 71% RH
Tested By	Nelson Teng		

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	#5550.52	60.6 PK	68.2	-7.6	1.79 H	175	55.0	5.6
2	*5745.00	123.8 PK			1.79 H	175	118.0	5.8
3	*5745.00	114.2 AV			1.79 H	175	108.4	5.8
4	#5943.20	58.6 PK	68.2	-9.6	1.79 H	175	52.2	6.4
5	11490.00	62.9 PK	74.0	-11.1	2.10 H	38	46.0	16.9
6	11490.00	49.8 AV	54.0	-4.2	2.10 H	38	32.9	16.9
7	#17235.00	59.6 PK	68.2	-8.6	1.83 H	239	38.5	21.1

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.

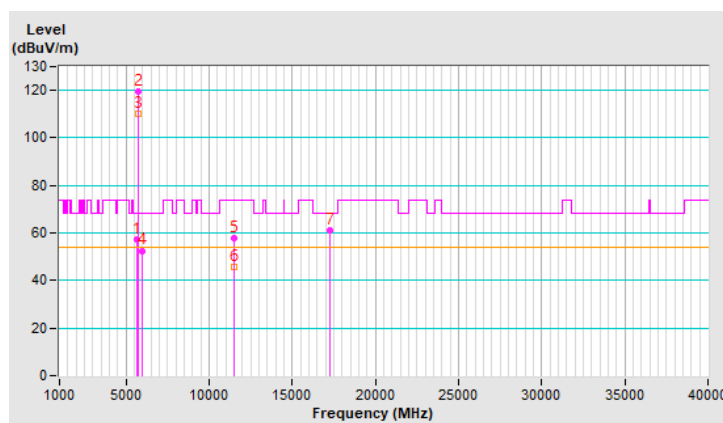


RF Mode	802.11a	Channel	CH 149 : 5745 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 71% RH
Tested By	Nelson Teng		

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	#5647.42	57.1 PK	68.2	-11.1	3.25 V	113	51.2	5.9
2	*5745.00	119.5 PK			3.25 V	113	113.7	5.8
3	*5745.00	110.0 AV			3.25 V	113	104.2	5.8
4	#5947.04	52.6 PK	68.2	-15.6	3.25 V	113	46.2	6.4
5	11490.00	58.0 PK	74.0	-16.0	1.03 V	89	41.1	16.9
6	11490.00	45.9 AV	54.0	-8.1	1.03 V	89	29.0	16.9
7	#17235.00	60.9 PK	68.2	-7.3	1.04 V	105	39.8	21.1

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.

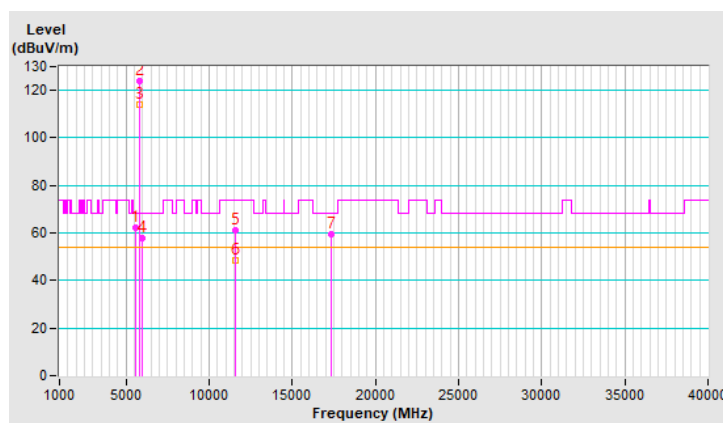


RF Mode	802.11a	Channel	CH 157 : 5785 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 71% RH
Tested By	Nelson Teng		

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	#5574.32	62.0 PK	68.2	-6.2	1.79 H	174	56.4	5.6
2	*5785.00	123.7 PK			1.79 H	174	117.5	6.2
3	*5785.00	114.1 AV			1.79 H	174	107.9	6.2
4	#5943.11	58.0 PK	68.2	-10.2	1.79 H	174	51.6	6.4
5	11570.00	61.0 PK	74.0	-13.0	2.98 H	157	44.3	16.7
6	11570.00	48.3 AV	54.0	-5.7	2.98 H	157	31.6	16.7
7	#17355.00	59.4 PK	68.2	-8.8	1.75 H	239	37.8	21.6

Remarks:

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

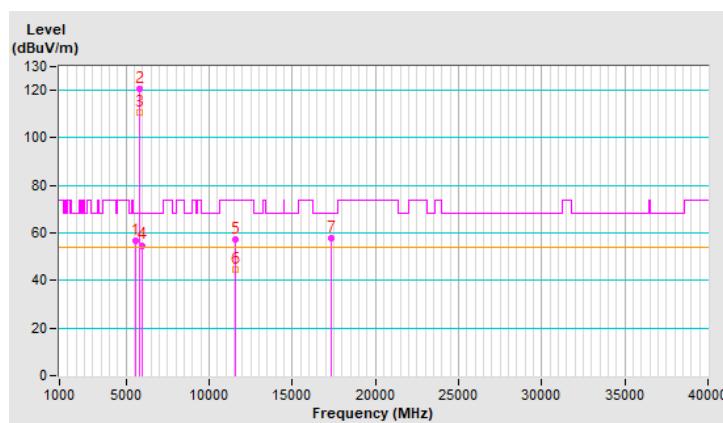


RF Mode	802.11a	Channel	CH 157 : 5785 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 71% RH
Tested By	Nelson Teng		

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	#5581.44	56.8 PK	68.2	-11.4	3.99 V	264	51.2	5.6
2	*5785.00	120.8 PK			3.99 V	264	114.6	6.2
3	*5785.00	110.5 AV			3.99 V	264	104.3	6.2
4	#5978.98	54.8 PK	68.2	-13.4	3.99 V	264	48.5	6.3
5	11570.00	57.4 PK	74.0	-16.6	3.72 V	266	40.7	16.7
6	11570.00	44.7 AV	54.0	-9.3	3.72 V	266	28.0	16.7
7	#17355.00	57.7 PK	68.2	-10.5	2.37 V	84	36.1	21.6

Remarks:

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

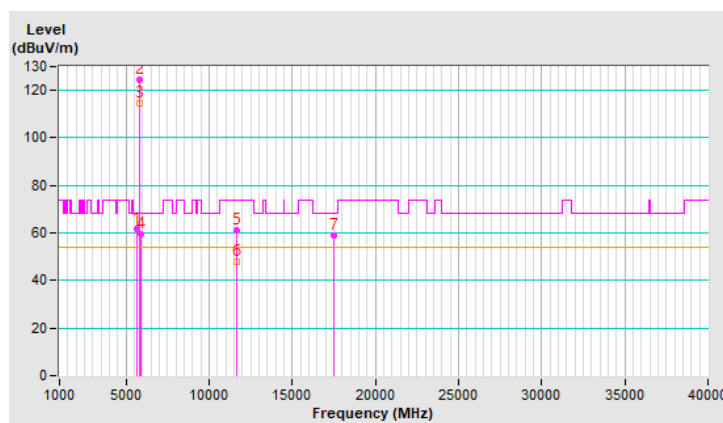


RF Mode	802.11a	Channel	CH 165 : 5825 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 71% RH
Tested By	Nelson Teng		

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	#5631.56	61.6 PK	68.2	-6.6	1.92 H	173	55.8	5.8
2	*5825.00	124.6 PK			1.92 H	173	118.2	6.4
3	*5825.00	114.6 AV			1.92 H	173	108.2	6.4
4	#5933.25	59.7 PK	68.2	-8.5	1.92 H	173	53.4	6.3
5	11650.00	61.0 PK	74.0	-13.0	2.98 H	156	44.5	16.5
6	11650.00	48.1 AV	54.0	-5.9	2.98 H	156	31.6	16.5
7	#17475.00	58.9 PK	68.2	-9.3	1.70 H	245	36.9	22.0

Remarks:

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

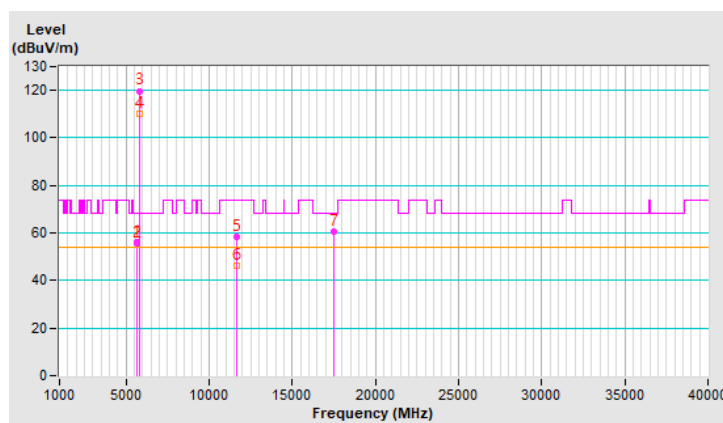


RF Mode	802.11a	Channel	CH 165 : 5825 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 71% RH
Tested By	Nelson Teng		

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	#5632.41	56.4 PK	68.2	-11.8	4.00 V	261	50.6	5.8
2	#5659.87	55.8 PK	68.2	-12.4	4.00 V	261	49.9	5.9
3	*5825.00	119.8 PK			4.00 V	261	113.4	6.4
4	*5825.00	110.0 AV			4.00 V	261	103.6	6.4
5	11650.00	58.5 PK	74.0	-15.5	3.73 V	252	42.0	16.5
6	11650.00	46.1 AV	54.0	-7.9	3.73 V	252	29.6	16.5
7	#17475.00	60.8 PK	68.2	-7.4	2.42 V	84	38.8	22.0

Remarks:

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

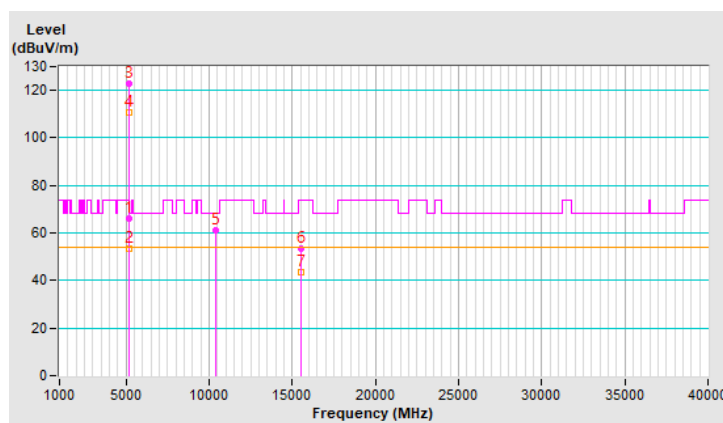


RF Mode	802.11ax (HE20)	Channel	CH 36 : 5180 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 71% RH
Tested By	Nelson Teng		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5147.31	66.0 PK	74.0	-8.0	2.20 H	180	60.4	5.6
2	5147.31	53.3 AV	54.0	-0.7	2.20 H	180	47.7	5.6
3	*5180.00	122.8 PK			2.20 H	180	117.2	5.6
4	*5180.00	110.7 AV			2.20 H	180	105.1	5.6
5	#10360.00	61.2 PK	68.2	-7.0	2.06 H	98	45.7	15.5
6	15540.00	53.3 PK	74.0	-20.7	1.85 H	36	36.9	16.4
7	15540.00	43.3 AV	54.0	-10.7	1.85 H	36	26.9	16.4

Remarks:

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

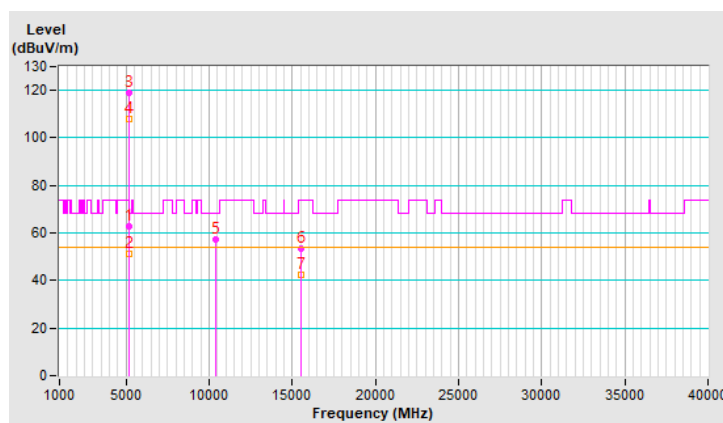


RF Mode	802.11ax (HE20)	Channel	CH 36 : 5180 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 71% RH
Tested By	Nelson Teng		

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	62.7 PK	74.0	-11.3	2.83 V	89	57.1	5.6
2	5150.00	51.0 AV	54.0	-3.0	2.83 V	89	45.4	5.6
3	*5180.00	118.8 PK			2.83 V	89	113.2	5.6
4	*5180.00	107.8 AV			2.83 V	89	102.2	5.6
5	#10360.00	57.2 PK	68.2	-11.0	1.29 V	83	41.7	15.5
6	15540.00	53.2 PK	74.0	-20.8	1.66 V	90	36.8	16.4
7	15540.00	42.4 AV	54.0	-11.6	1.66 V	90	26.0	16.4

Remarks:

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

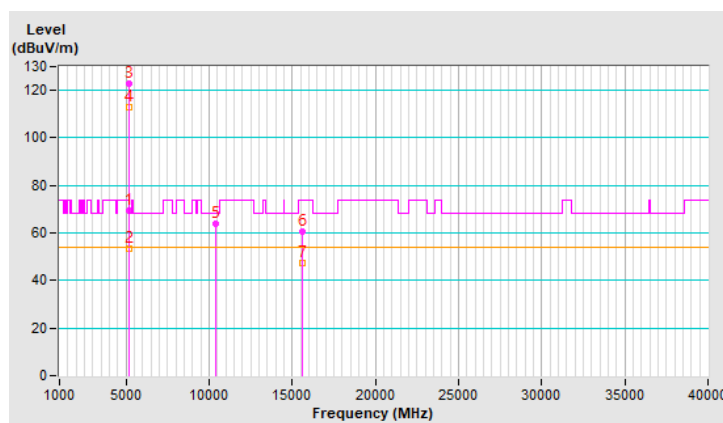


RF Mode	802.11ax (HE20)	Channel	CH 40 : 5200 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 71% RH
Tested By	Nelson Teng		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5147.00	69.4 PK	74.0	-4.6	2.23 H	175	63.8	5.6
2	5147.00	53.6 AV	54.0	-0.4	2.23 H	175	48.0	5.6
3	*5200.00	122.8 PK			2.23 H	175	117.3	5.5
4	*5200.00	113.0 AV			2.23 H	175	107.5	5.5
5	#10400.00	63.9 PK	68.2	-4.3	2.14 H	125	48.3	15.6
6	15600.00	60.6 PK	74.0	-13.4	1.81 H	39	43.9	16.7
7	15600.00	47.6 AV	54.0	-6.4	1.81 H	39	30.9	16.7

Remarks:

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

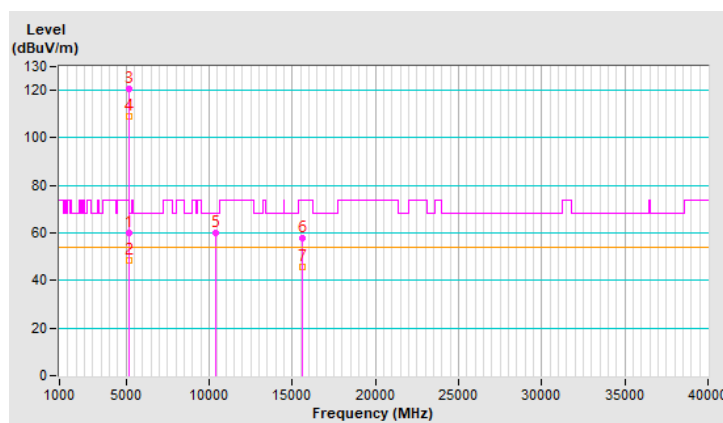


RF Mode	802.11ax (HE20)	Channel	CH 40 : 5200 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 71% RH
Tested By	Nelson Teng		

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	59.9 PK	74.0	-14.1	2.86 V	98	54.3	5.6
2	5150.00	48.6 AV	54.0	-5.4	2.86 V	98	43.0	5.6
3	*5200.00	120.6 PK			2.86 V	98	115.1	5.5
4	*5200.00	109.3 AV			2.86 V	98	103.8	5.5
5	#10400.00	59.9 PK	68.2	-8.3	1.33 V	72	44.3	15.6
6	15600.00	57.7 PK	74.0	-16.3	1.62 V	90	41.0	16.7
7	15600.00	45.6 AV	54.0	-8.4	1.62 V	90	28.9	16.7

Remarks:

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

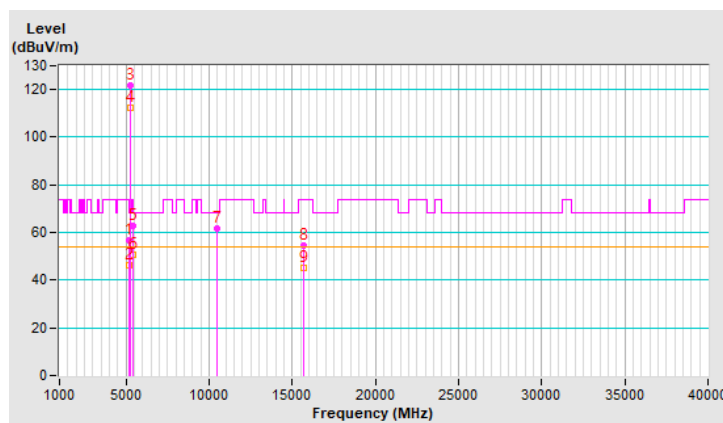


RF Mode	802.11ax (HE20)	Channel	CH 48 : 5240 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 71% RH
Tested By	Nelson Teng		

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	56.5 PK	74.0	-17.5	2.30 H	174	50.9	5.6
2	5150.00	46.0 AV	54.0	-8.0	2.30 H	174	40.4	5.6
3	*5240.00	121.9 PK			2.30 H	174	116.7	5.2
4	*5240.00	112.6 AV			2.30 H	174	107.4	5.2
5	5442.70	62.6 PK	74.0	-11.4	2.30 H	174	57.0	5.6
6	5442.70	50.7 AV	54.0	-3.3	2.30 H	174	45.1	5.6
7	#10480.00	61.8 PK	68.2	-6.4	2.05 H	105	46.0	15.8
8	15720.00	54.6 PK	74.0	-19.4	1.80 H	48	38.0	16.6
9	15720.00	44.9 AV	54.0	-9.1	1.80 H	48	28.3	16.6

Remarks:

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

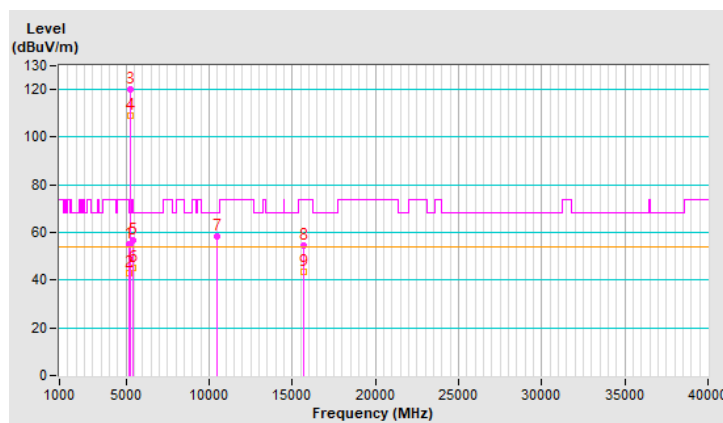


RF Mode	802.11ax (HE20)	Channel	CH 48 : 5240 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 71% RH
Tested By	Nelson Teng		

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	55.1 PK	74.0	-18.9	2.25 V	69	49.5	5.6
2	5150.00	42.8 AV	54.0	-11.2	2.25 V	69	37.2	5.6
3	*5240.00	120.0 PK			2.25 V	69	114.8	5.2
4	*5240.00	108.8 AV			2.25 V	69	103.6	5.2
5	5432.00	56.7 PK	74.0	-17.3	2.25 V	69	51.2	5.5
6	5432.00	45.0 AV	54.0	-9.0	2.25 V	69	39.5	5.5
7	#10480.00	58.6 PK	68.2	-9.6	1.36 V	62	42.8	15.8
8	15720.00	54.5 PK	74.0	-19.5	1.72 V	101	37.9	16.6
9	15720.00	43.6 AV	54.0	-10.4	1.72 V	101	27.0	16.6

Remarks:

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

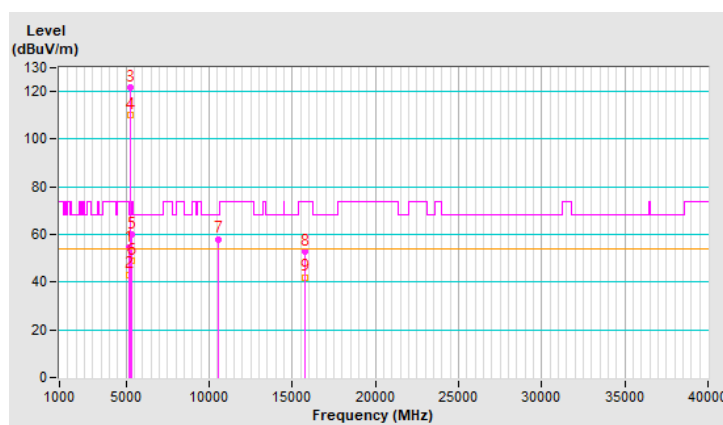


RF Mode	802.11ax (HE20)	Channel	CH 52 : 5260 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 71% RH
Tested By	Nelson Teng		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	54.7 PK	74.0	-19.3	2.24 H	179	49.1	5.6
2	5150.00	43.2 AV	54.0	-10.8	2.24 H	179	37.6	5.6
3	*5260.00	121.9 PK			2.24 H	179	116.7	5.2
4	*5260.00	110.2 AV			2.24 H	179	105.0	5.2
5	5350.00	60.0 PK	74.0	-14.0	2.24 H	179	54.5	5.5
6	5350.00	48.8 AV	54.0	-5.2	2.24 H	179	43.3	5.5
7	#10520.00	58.1 PK	68.2	-10.1	2.13 H	123	42.1	16.0
8	15780.00	52.7 PK	74.0	-21.3	1.78 H	61	36.0	16.7
9	15780.00	42.1 AV	54.0	-11.9	1.78 H	61	25.4	16.7

Remarks:

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

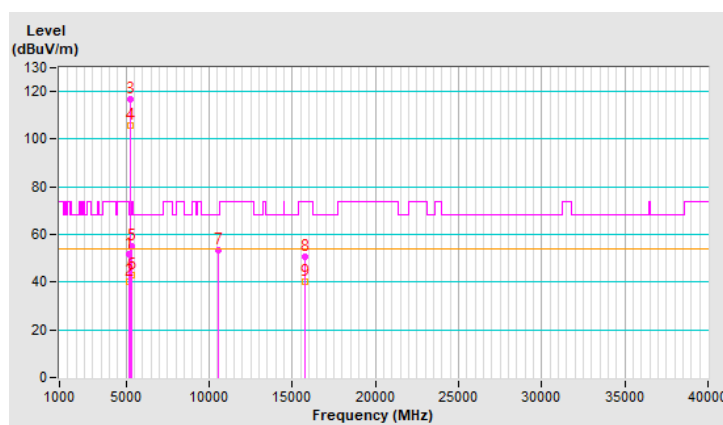


RF Mode	802.11ax (HE20)	Channel	CH 52 : 5260 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 71% RH
Tested By	Nelson Teng		

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	52.0 PK	74.0	-22.0	2.99 V	113	46.4	5.6
2	5150.00	40.3 AV	54.0	-13.7	2.99 V	113	34.7	5.6
3	*5260.00	116.6 PK			2.99 V	113	111.4	5.2
4	*5260.00	105.5 AV			2.99 V	113	100.3	5.2
5	5350.00	55.0 PK	74.0	-19.0	2.99 V	113	49.5	5.5
6	5350.00	42.8 AV	54.0	-11.2	2.99 V	113	37.3	5.5
7	#10520.00	53.6 PK	68.2	-14.6	1.28 V	78	37.6	16.0
8	15780.00	50.8 PK	74.0	-23.2	1.62 V	85	34.1	16.7
9	15780.00	40.3 AV	54.0	-13.7	1.62 V	85	23.6	16.7

Remarks:

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

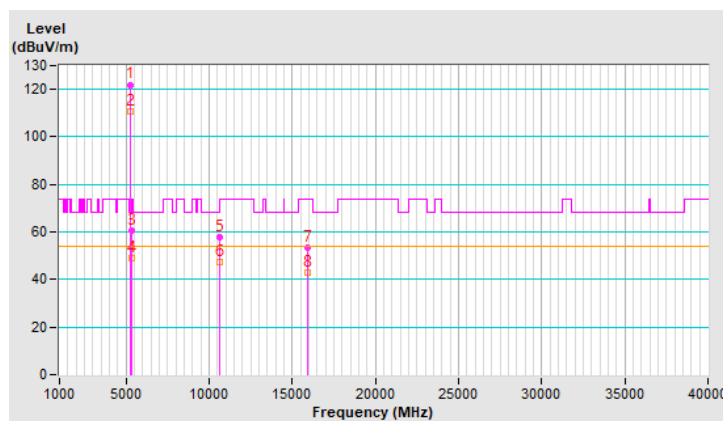


RF Mode	802.11ax (HE20)	Channel	CH 60 : 5300 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 71% RH
Tested By	Nelson Teng		

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	122.0 PK			2.21 H	184	116.8	5.2
2	*5300.00	110.5 AV			2.21 H	184	105.3	5.2
3	5350.00	60.7 PK	74.0	-13.3	2.21 H	184	55.2	5.5
4	5350.00	49.0 AV	54.0	-5.0	2.21 H	184	43.5	5.5
5	10600.00	57.9 PK	74.0	-16.1	2.08 H	110	42.1	15.8
6	10600.00	47.1 AV	54.0	-6.9	2.08 H	110	31.3	15.8
7	15900.00	53.2 PK	74.0	-20.8	1.79 H	49	36.8	16.4
8	15900.00	42.7 AV	54.0	-11.3	1.79 H	49	26.3	16.4

Remarks:

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

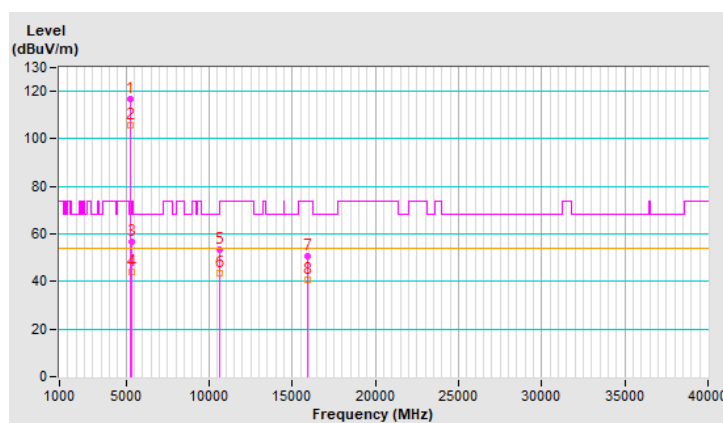


RF Mode	802.11ax (HE20)	Channel	CH 60 : 5300 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 71% RH
Tested By	Nelson Teng		

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	116.8 PK			2.86 V	101	111.6	5.2
2	*5300.00	105.5 AV			2.86 V	101	100.3	5.2
3	5350.00	56.6 PK	74.0	-17.4	2.86 V	101	51.1	5.5
4	5350.00	44.1 AV	54.0	-9.9	2.86 V	101	38.6	5.5
5	10600.00	53.6 PK	74.0	-20.4	1.25 V	86	37.8	15.8
6	10600.00	43.4 AV	54.0	-10.6	1.25 V	86	27.6	15.8
7	15900.00	50.9 PK	74.0	-23.1	1.67 V	109	34.5	16.4
8	15900.00	40.8 AV	54.0	-13.2	1.67 V	109	24.4	16.4

Remarks:

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

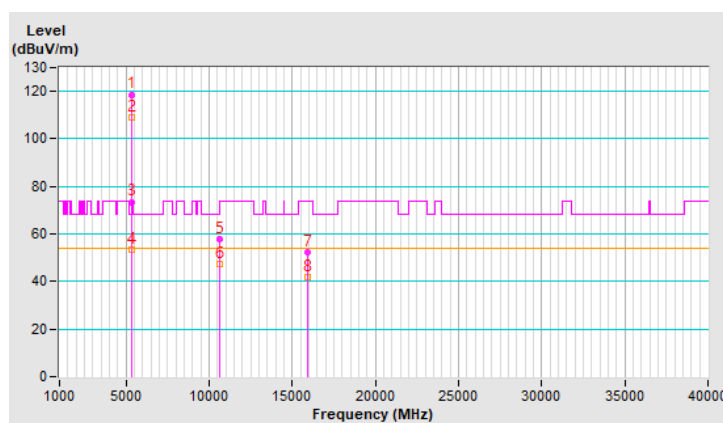


RF Mode	802.11ax (HE20)	Channel	CH 64 : 5320 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 71% RH
Tested By	Nelson Teng		

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	118.7 PK			2.34 H	170	113.4	5.3
2	*5320.00	109.1 AV			2.34 H	170	103.8	5.3
3	5352.43	73.5 PK	74.0	-0.5	2.34 H	170	68.0	5.5
4	5352.43	53.6 AV	54.0	-0.4	2.34 H	170	48.1	5.5
5	10640.00	57.9 PK	74.0	-16.1	2.16 H	123	41.9	16.0
6	10640.00	47.3 AV	54.0	-6.7	2.16 H	123	31.3	16.0
7	15960.00	52.4 PK	74.0	-21.6	1.85 H	49	35.5	16.9
8	15960.00	41.9 AV	54.0	-12.1	1.85 H	49	25.0	16.9

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.

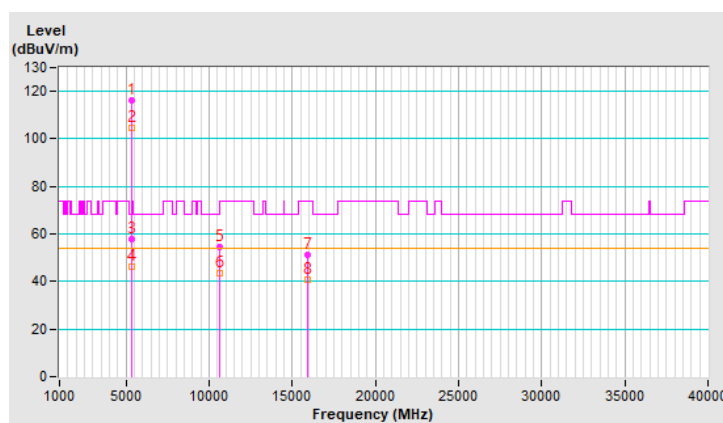


RF Mode	802.11ax (HE20)	Channel	CH 64 : 5320 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 71% RH
Tested By	Nelson Teng		

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	116.3 PK			2.28 V	95	111.0	5.3
2	*5320.00	104.8 AV			2.28 V	95	99.5	5.3
3	5352.34	58.0 PK	74.0	-16.0	2.28 V	95	52.5	5.5
4	5352.34	46.3 AV	54.0	-7.7	2.28 V	95	40.8	5.5
5	10640.00	54.3 PK	74.0	-19.7	1.29 V	76	38.3	16.0
6	10640.00	43.6 AV	54.0	-10.4	1.29 V	76	27.6	16.0
7	15960.00	51.0 PK	74.0	-23.0	1.68 V	94	34.1	16.9
8	15960.00	40.7 AV	54.0	-13.3	1.68 V	94	23.8	16.9

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.

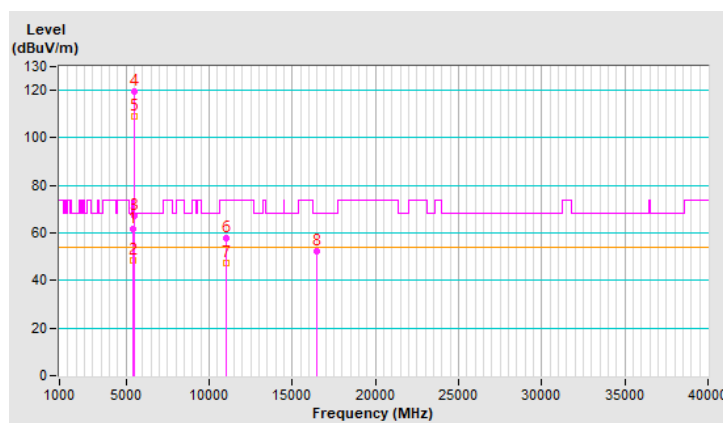


RF Mode	802.11ax (HE20)	Channel	CH 100 : 5500 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 71% RH
Tested By	Nelson Teng		

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	61.7 PK	74.0	-12.3	2.17 H	175	56.1	5.6
2	5460.00	48.3 AV	54.0	-5.7	2.17 H	175	42.7	5.6
3	#5467.81	67.4 PK	68.2	-0.8	2.17 H	175	61.8	5.6
4	*5500.00	119.3 PK			2.17 H	175	113.6	5.7
5	*5500.00	109.1 AV			2.17 H	175	103.4	5.7
6	11000.00	58.0 PK	74.0	-16.0	2.14 H	111	41.4	16.6
7	11000.00	47.3 AV	54.0	-6.7	2.14 H	111	30.7	16.6
8	#16500.00	52.3 PK	68.2	-15.9	1.79 H	31	33.5	18.8

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.

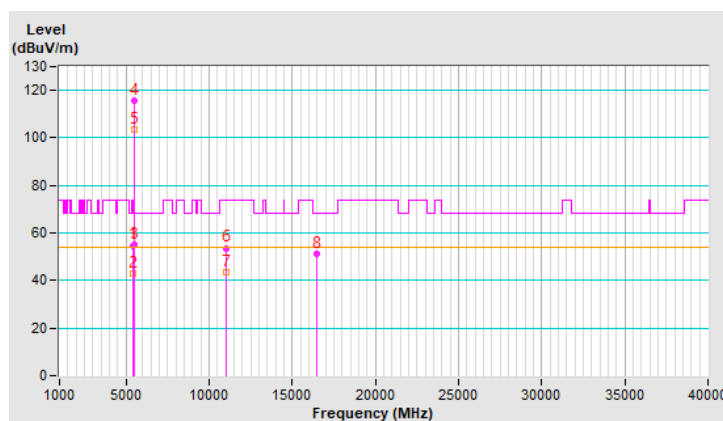


RF Mode	802.11ax (HE20)	Channel	CH 100 : 5500 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 71% RH
Tested By	Nelson Teng		

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	54.8 PK	74.0	-19.2	3.90 V	95	49.2	5.6
2	5460.00	43.1 AV	54.0	-10.9	3.90 V	95	37.5	5.6
3	#5470.00	54.9 PK	68.2	-13.3	3.90 V	95	49.3	5.6
4	*5500.00	115.6 PK			3.90 V	95	109.9	5.7
5	*5500.00	103.7 AV			3.90 V	95	98.0	5.7
6	11000.00	53.7 PK	74.0	-20.3	1.27 V	62	37.1	16.6
7	11000.00	43.3 AV	54.0	-10.7	1.27 V	62	26.7	16.6
8	#16500.00	51.3 PK	68.2	-16.9	1.67 V	92	32.5	18.8

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.

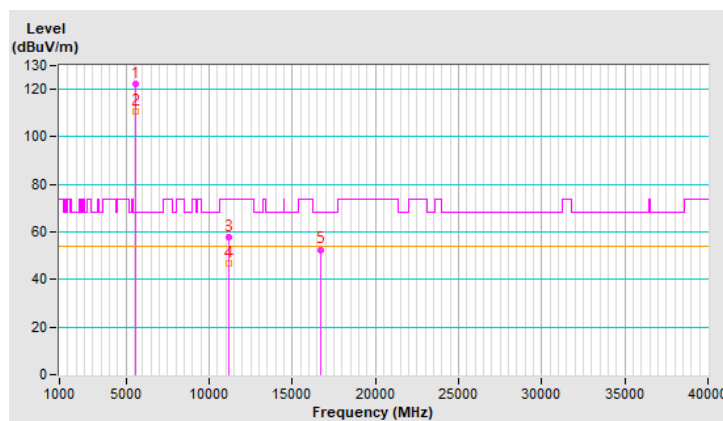


RF Mode	802.11ax (HE20)	Channel	CH 116 : 5580 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 71% RH
Tested By	Nelson Teng		

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	122.3 PK			2.25 H	183	116.7	5.6
2	*5580.00	110.7 AV			2.25 H	183	105.1	5.6
3	11160.00	57.6 PK	74.0	-16.4	2.07 H	125	41.6	16.0
4	11160.00	46.9 AV	54.0	-7.1	2.07 H	125	30.9	16.0
5	#16740.00	52.6 PK	68.2	-15.6	1.81 H	47	31.7	20.9

Remarks:

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

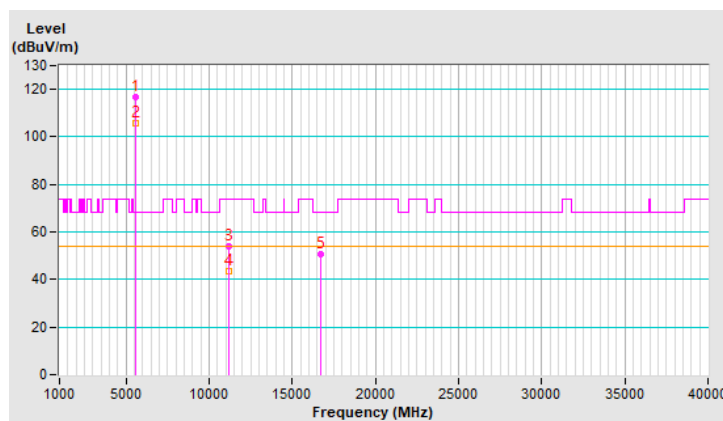


RF Mode	802.11ax (HE20)	Channel	CH 116 : 5580 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 71% RH
Tested By	Nelson Teng		

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	116.7 PK			2.83 V	75	111.1	5.6
2	*5580.00	105.6 AV			2.83 V	75	100.0	5.6
3	11160.00	53.8 PK	74.0	-20.2	1.24 V	64	37.8	16.0
4	11160.00	43.6 AV	54.0	-10.4	1.24 V	64	27.6	16.0
5	#16740.00	50.7 PK	68.2	-17.5	1.69 V	86	29.8	20.9

Remarks:

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

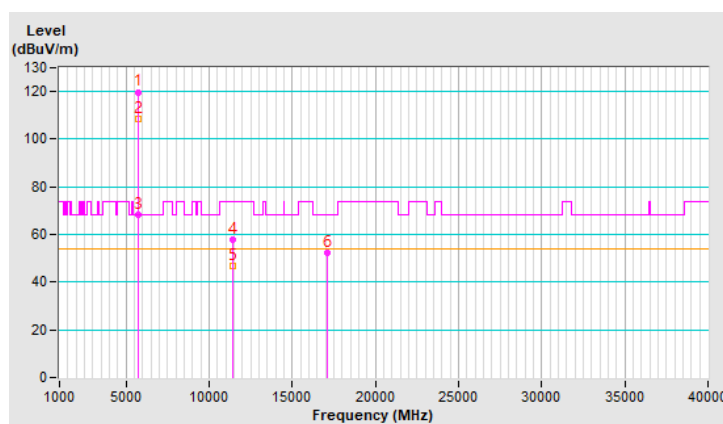


RF Mode	802.11ax (HE20)	Channel	CH 140 : 5700 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 71% RH
Tested By	Nelson Teng		

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	119.8 PK			2.06 H	173	114.1	5.7
2	*5700.00	108.3 AV			2.06 H	173	102.6	5.7
3	#5725.00	68.1 PK	68.2	-0.1	2.06 H	173	62.3	5.8
4	11400.00	57.6 PK	74.0	-16.4	2.08 H	129	40.9	16.7
5	11400.00	47.0 AV	54.0	-7.0	2.08 H	129	30.3	16.7
6	#17100.00	52.1 PK	68.2	-16.1	1.82 H	43	30.5	21.6

Remarks:

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

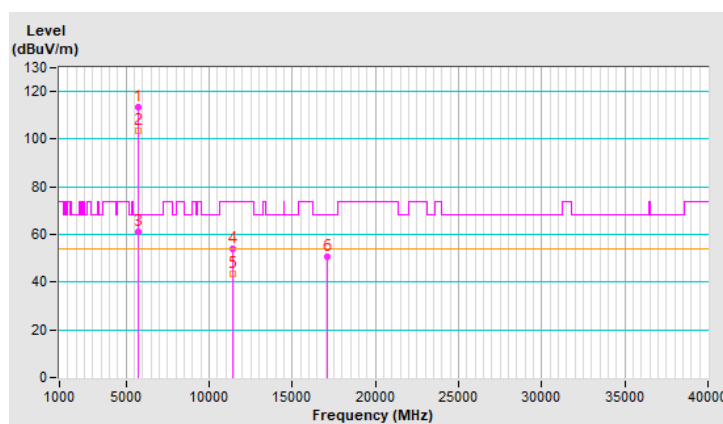


RF Mode	802.11ax (HE20)	Channel	CH 140 : 5700 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 71% RH
Tested By	Nelson Teng		

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	113.6 PK			2.86 V	101	107.9	5.7
2	*5700.00	103.4 AV			2.86 V	101	97.7	5.7
3	#5725.00	61.3 PK	68.2	-6.9	2.86 V	101	55.5	5.8
4	11400.00	53.9 PK	74.0	-20.1	1.24 V	66	37.2	16.7
5	11400.00	43.3 AV	54.0	-10.7	1.24 V	66	26.6	16.7
6	#17100.00	50.9 PK	68.2	-17.3	1.73 V	102	29.3	21.6

Remarks:

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

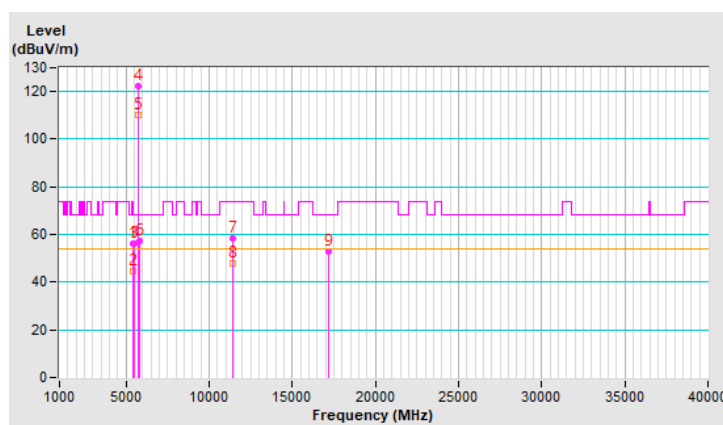


RF Mode	802.11ax (HE20)	Channel	CH 144 : 5720 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 71% RH
Tested By	Nelson Teng		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	56.0 PK	74.0	-18.0	2.17 H	178	50.4	5.6
2	5460.00	44.5 AV	54.0	-9.5	2.17 H	178	38.9	5.6
3	#5470.00	56.4 PK	68.2	-11.8	2.17 H	178	50.8	5.6
4	*5720.00	122.1 PK			2.17 H	178	116.3	5.8
5	*5720.00	110.3 AV			2.17 H	178	104.5	5.8
6	#5850.00	57.5 PK	68.2	-10.7	2.17 H	178	51.0	6.5
7	11440.00	58.3 PK	74.0	-15.7	2.05 H	113	41.5	16.8
8	11440.00	47.7 AV	54.0	-6.3	2.05 H	113	30.9	16.8
9	#17160.00	52.9 PK	68.2	-15.3	1.87 H	38	31.6	21.3

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.

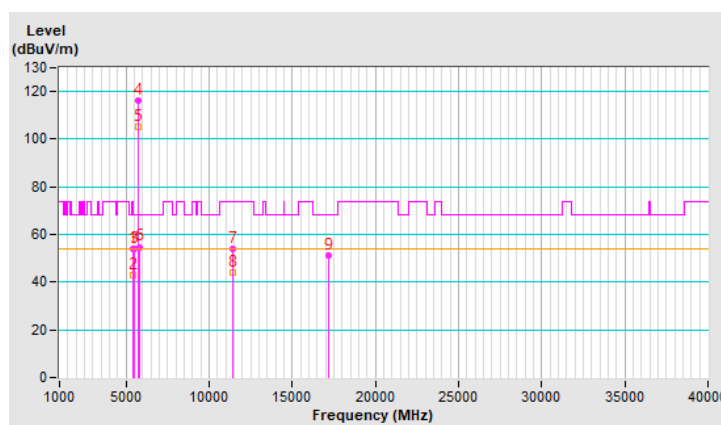


RF Mode	802.11ax (HE20)	Channel	CH 144 : 5720 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 71% RH
Tested By	Nelson Teng		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	53.8 PK	74.0	-20.2	2.78 V	83	48.2	5.6
2	5460.00	42.9 AV	54.0	-11.1	2.78 V	83	37.3	5.6
3	#5470.00	54.2 PK	68.2	-14.0	2.78 V	83	48.6	5.6
4	*5720.00	116.2 PK			2.78 V	83	110.4	5.8
5	*5720.00	105.3 AV			2.78 V	83	99.5	5.8
6	#5850.00	54.8 PK	68.2	-13.4	2.78 V	83	48.3	6.5
7	11440.00	54.2 PK	74.0	-19.8	1.34 V	67	37.4	16.8
8	11440.00	43.9 AV	54.0	-10.1	1.34 V	67	27.1	16.8
9	#17160.00	51.0 PK	68.2	-17.2	1.69 V	113	29.7	21.3

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.

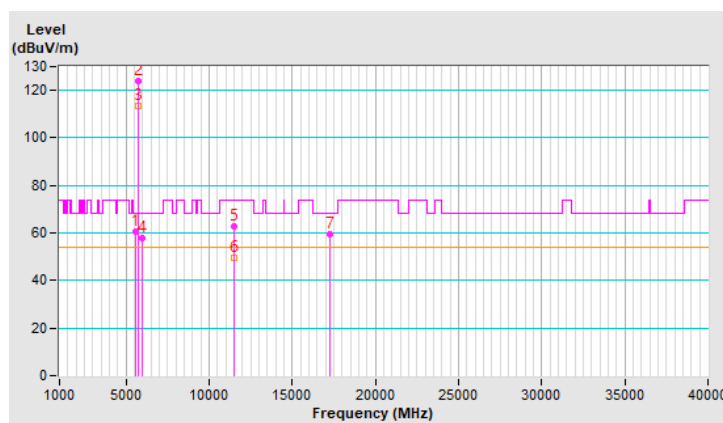


RF Mode	802.11ax (HE20)	Channel	CH 149 : 5745 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 71% RH
Tested By	Nelson Teng		

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	#5592.97	60.7 PK	68.2	-7.5	2.12 H	176	55.2	5.5
2	*5745.00	123.9 PK			2.12 H	176	118.1	5.8
3	*5745.00	113.6 AV			2.12 H	176	107.8	5.8
4	#5943.49	57.9 PK	68.2	-10.3	2.12 H	176	51.5	6.4
5	11490.00	62.7 PK	74.0	-11.3	2.15 H	25	45.8	16.9
6	11490.00	49.6 AV	54.0	-4.4	2.15 H	25	32.7	16.9
7	#17235.00	59.4 PK	68.2	-8.8	1.86 H	248	38.3	21.1

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.

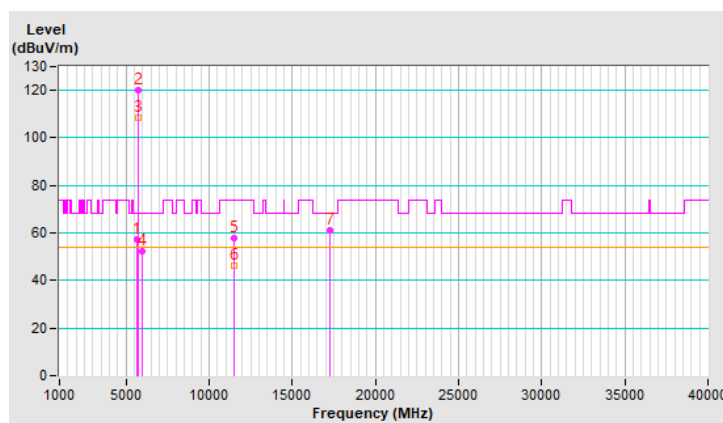


RF Mode	802.11ax (HE20)	Channel	CH 149 : 5745 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 71% RH
Tested By	Nelson Teng		

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	#5623.38	57.4 PK	68.2	-10.8	3.25 V	113	51.6	5.8
2	*5745.00	120.2 PK			3.25 V	113	114.4	5.8
3	*5745.00	108.4 AV			3.25 V	113	102.6	5.8
4	#5942.75	52.5 PK	68.2	-15.7	3.25 V	113	46.1	6.4
5	11490.00	57.8 PK	74.0	-16.2	1.05 V	82	40.9	16.9
6	11490.00	46.0 AV	54.0	-8.0	1.05 V	82	29.1	16.9
7	#17235.00	61.3 PK	68.2	-6.9	1.05 V	97	40.2	21.1

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.

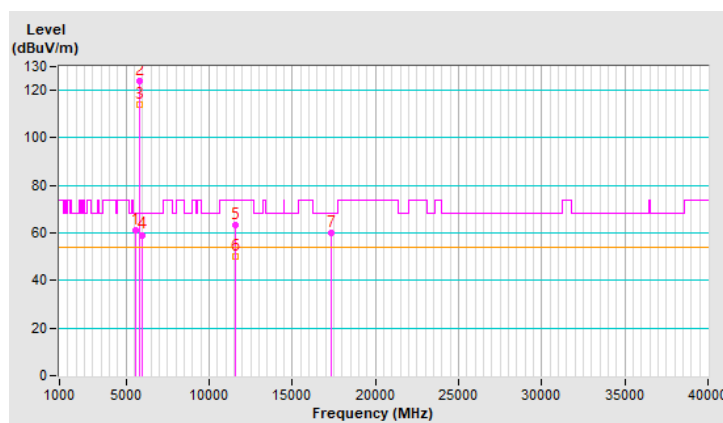


RF Mode	802.11ax (HE20)	Channel	CH 157 : 5785 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 71% RH
Tested By	Nelson Teng		

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	#5592.87	61.0 PK	68.2	-7.2	2.07 H	173	55.5	5.5
2	*5785.00	124.1 PK			2.07 H	173	117.9	6.2
3	*5785.00	114.1 AV			2.07 H	173	107.9	6.2
4	#5980.23	59.2 PK	68.2	-9.0	2.07 H	173	52.9	6.3
5	11570.00	63.3 PK	74.0	-10.7	2.10 H	49	46.6	16.7
6	11570.00	50.2 AV	54.0	-3.8	2.10 H	49	33.5	16.7
7	#17355.00	59.8 PK	68.2	-8.4	1.79 H	255	38.2	21.6

Remarks:

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

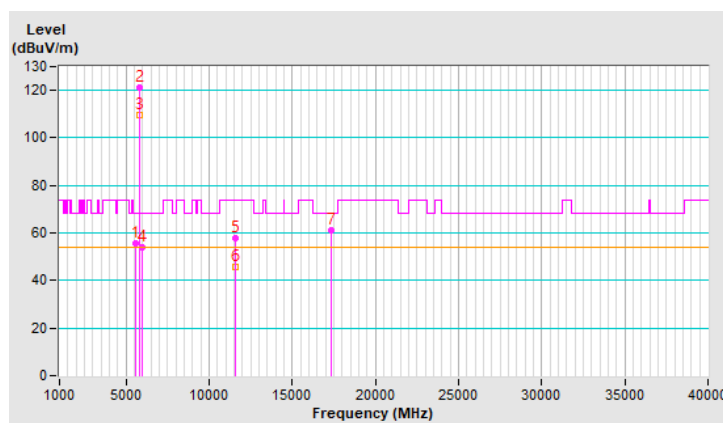


RF Mode	802.11ax (HE20)	Channel	CH 157 : 5785 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 71% RH
Tested By	Nelson Teng		

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	#5578.86	55.4 PK	68.2	-12.8	3.99 V	265	49.8	5.6
2	*5785.00	121.0 PK			3.99 V	265	114.8	6.2
3	*5785.00	109.5 AV			3.99 V	265	103.3	6.2
4	#5976.80	54.2 PK	68.2	-14.0	3.99 V	265	47.9	6.3
5	11570.00	57.8 PK	74.0	-16.2	1.03 V	76	41.1	16.7
6	11570.00	45.6 AV	54.0	-8.4	1.03 V	76	28.9	16.7
7	#17355.00	61.0 PK	68.2	-7.2	1.01 V	95	39.4	21.6

Remarks:

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

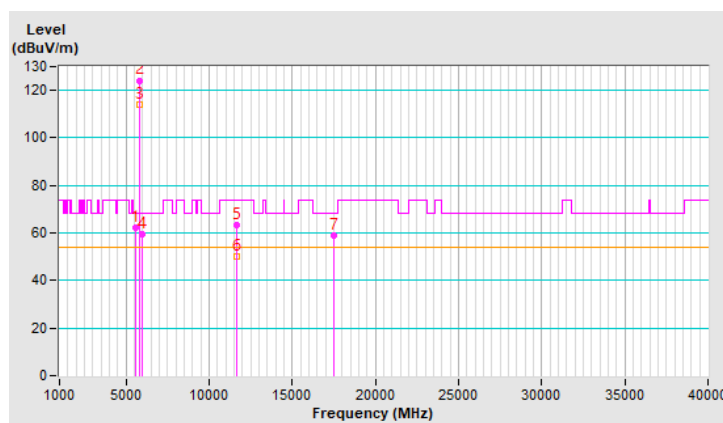


RF Mode	802.11ax (HE20)	Channel	CH 165 : 5825 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 71% RH
Tested By	Nelson Teng		

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	#5589.90	62.2 PK	68.2	-6.0	2.10 H	178	56.7	5.5
2	*5825.00	124.2 PK			2.10 H	178	117.8	6.4
3	*5825.00	114.2 AV			2.10 H	178	107.8	6.4
4	#5947.05	59.3 PK	68.2	-8.9	2.10 H	178	52.9	6.4
5	11650.00	63.3 PK	74.0	-10.7	2.13 H	42	46.8	16.5
6	11650.00	50.2 AV	54.0	-3.8	2.13 H	42	33.7	16.5
7	#17475.00	59.1 PK	68.2	-9.1	1.79 H	227	37.1	22.0

Remarks:

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

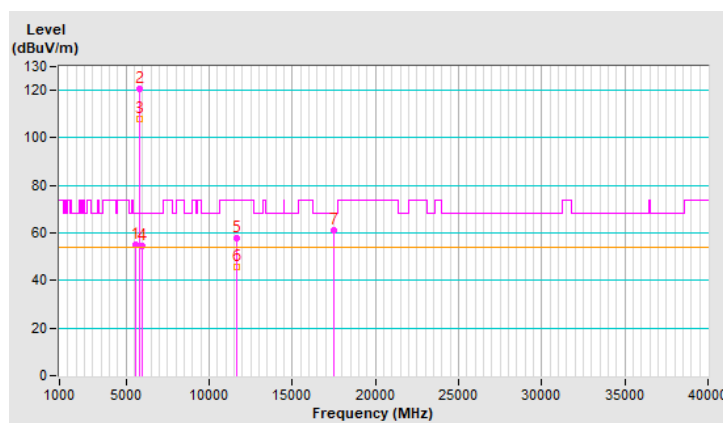


RF Mode	802.11ax (HE20)	Channel	CH 165 : 5825 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 71% RH
Tested By	Nelson Teng		

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	#5593.43	55.2 PK	68.2	-13.0	3.99 V	261	49.7	5.5
2	*5825.00	120.7 PK			3.99 V	261	114.3	6.4
3	*5825.00	108.1 AV			3.99 V	261	101.7	6.4
4	#5980.11	54.3 PK	68.2	-13.9	3.99 V	261	48.0	6.3
5	11650.00	58.0 PK	74.0	-16.0	1.00 V	99	41.5	16.5
6	11650.00	45.6 AV	54.0	-8.4	1.00 V	99	29.1	16.5
7	#17475.00	61.3 PK	68.2	-6.9	1.05 V	95	39.3	22.0

Remarks:

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

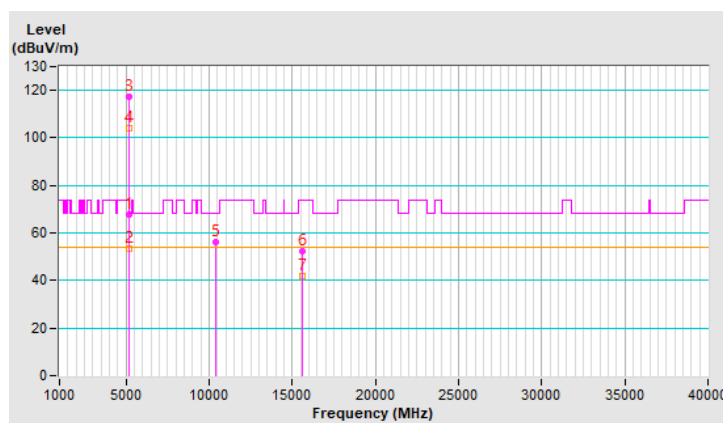


RF Mode	802.11ax (HE40)	Channel	CH 38 : 5190 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 71% RH
Tested By	Nelson Teng		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5147.70	67.8 PK	74.0	-6.2	2.19 H	174	62.2	5.6
2	5147.70	53.4 AV	54.0	-0.6	2.19 H	174	47.8	5.6
3	*5190.00	117.1 PK			2.19 H	174	111.5	5.6
4	*5190.00	104.1 AV			2.19 H	174	98.5	5.6
5	#10380.00	56.1 PK	68.2	-12.1	2.21 H	128	40.5	15.6
6	15570.00	52.4 PK	74.0	-21.6	1.79 H	37	35.9	16.5
7	15570.00	41.9 AV	54.0	-12.1	1.79 H	37	25.4	16.5

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.

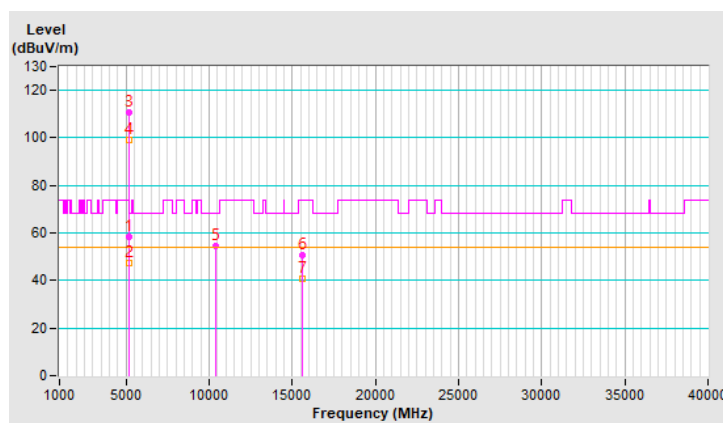


RF Mode	802.11ax (HE40)	Channel	CH 38 : 5190 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 71% RH
Tested By	Nelson Teng		

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	58.3 PK	74.0	-15.7	2.83 V	88	52.7	5.6
2	5150.00	47.6 AV	54.0	-6.4	2.83 V	88	42.0	5.6
3	*5190.00	110.8 PK			2.83 V	88	105.2	5.6
4	*5190.00	99.1 AV			2.83 V	88	93.5	5.6
5	#10380.00	54.6 PK	68.2	-13.6	1.25 V	86	39.0	15.6
6	15570.00	50.9 PK	74.0	-23.1	1.68 V	83	34.4	16.5
7	15570.00	40.8 AV	54.0	-13.2	1.68 V	83	24.3	16.5

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.

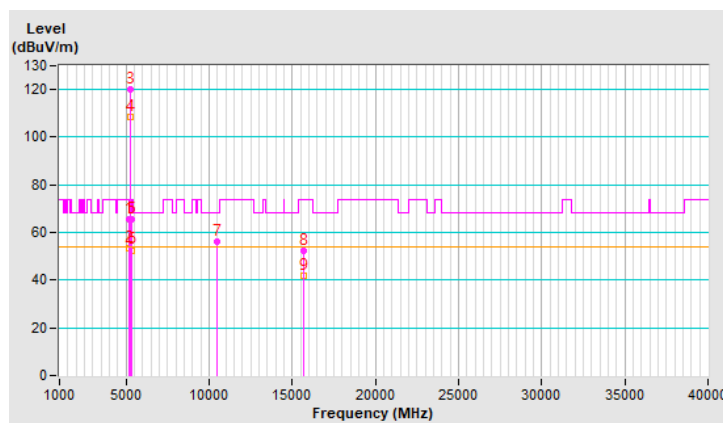


RF Mode	802.11ax (HE40)	Channel	CH 46 : 5230 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 71% RH
Tested By	Nelson Teng		

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	5146.80	65.6 PK	74.0	-8.4	2.21 H	167	60.0	5.6
2	5146.80	53.6 AV	54.0	-0.4	2.21 H	167	48.0	5.6
3	*5230.00	119.9 PK			2.21 H	167	114.5	5.4
4	*5230.00	108.6 AV			2.21 H	167	103.2	5.4
5	5350.00	65.5 PK	74.0	-8.5	2.21 H	167	60.0	5.5
6	5350.00	52.6 AV	54.0	-1.4	2.21 H	167	47.1	5.5
7	#10460.00	56.4 PK	68.2	-11.8	2.18 H	140	40.6	15.8
8	15690.00	52.4 PK	74.0	-21.6	1.84 H	25	35.8	16.6
9	15690.00	41.7 AV	54.0	-12.3	1.84 H	25	25.1	16.6

Remarks:

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

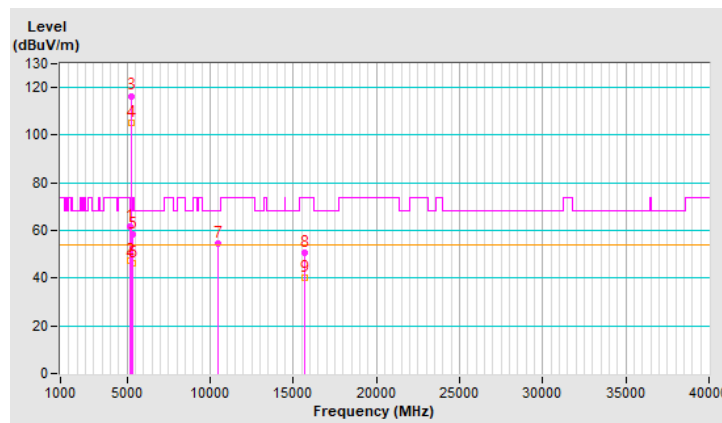


RF Mode	802.11ax (HE40)	Channel	CH 46 : 5230 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 71% RH
Tested By	Nelson Teng		

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	5148.50	61.9 PK	74.0	-12.1	2.25 V	67	56.3	5.6
2	5148.50	47.5 AV	54.0	-6.5	2.25 V	67	41.9	5.6
3	*5230.00	116.5 PK			2.25 V	67	111.1	5.4
4	*5230.00	105.1 AV			2.25 V	67	99.7	5.4
5	5350.00	58.4 PK	74.0	-15.6	2.25 V	67	52.9	5.5
6	5350.00	46.2 AV	54.0	-7.8	2.25 V	67	40.7	5.5
7	#10460.00	54.5 PK	68.2	-13.7	1.28 V	78	38.7	15.8
8	15690.00	50.8 PK	74.0	-23.2	1.73 V	108	34.2	16.6
9	15690.00	40.3 AV	54.0	-13.7	1.73 V	108	23.7	16.6

Remarks:

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

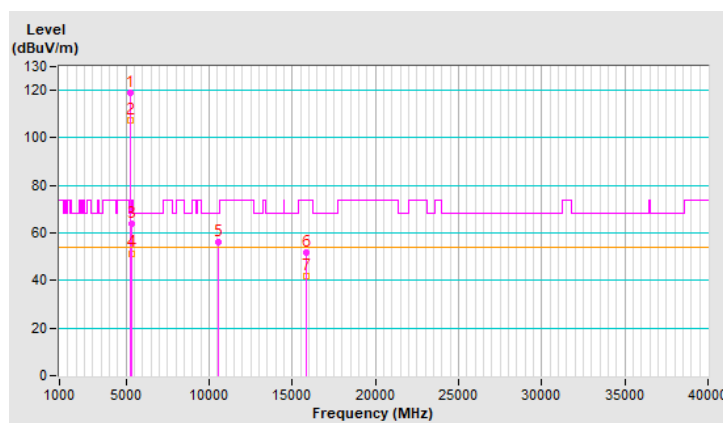


RF Mode	802.11ax (HE40)	Channel	CH 54 : 5270 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 71% RH
Tested By	Nelson Teng		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5270.00	118.8 PK			2.31 H	166	113.6	5.2
2	*5270.00	107.4 AV			2.31 H	166	102.2	5.2
3	5350.00	63.7 PK	74.0	-10.3	2.31 H	166	58.2	5.5
4	5350.00	51.5 AV	54.0	-2.5	2.31 H	166	46.0	5.5
5	#10540.00	56.1 PK	68.2	-12.1	2.15 H	122	40.3	15.8
6	15810.00	52.0 PK	74.0	-22.0	1.77 H	46	35.3	16.7
7	15810.00	41.6 AV	54.0	-12.4	1.77 H	46	24.9	16.7

Remarks:

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

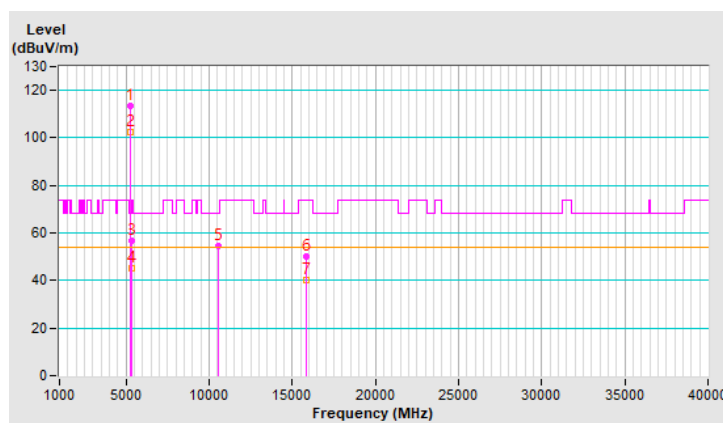


RF Mode	802.11ax (HE40)	Channel	CH 54 : 5270 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 71% RH
Tested By	Nelson Teng		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5270.00	113.5 PK			2.32 V	71	108.3	5.2
2	*5270.00	102.6 AV			2.32 V	71	97.4	5.2
3	5350.00	56.5 PK	74.0	-17.5	2.32 V	71	51.0	5.5
4	5350.00	45.2 AV	54.0	-8.8	2.32 V	71	39.7	5.5
5	#10540.00	54.3 PK	68.2	-13.9	1.24 V	86	38.5	15.8
6	15810.00	50.3 PK	74.0	-23.7	1.64 V	94	33.6	16.7
7	15810.00	40.3 AV	54.0	-13.7	1.64 V	94	23.6	16.7

Remarks:

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

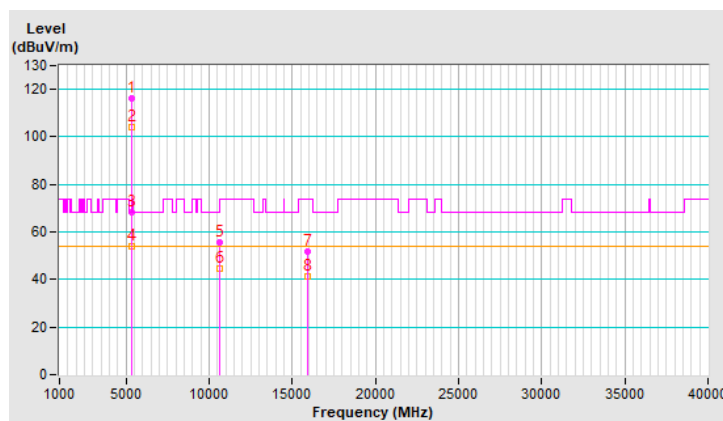


RF Mode	802.11ax (HE40)	Channel	CH 62 : 5310 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 71% RH
Tested By	Nelson Teng		

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	116.4 PK			2.20 H	174	111.2	5.2
2	*5310.00	104.3 AV			2.20 H	174	99.1	5.2
3	5352.38	68.5 PK	74.0	-5.5	2.20 H	174	63.0	5.5
4	5352.38	53.8 AV	54.0	-0.2	2.20 H	174	48.3	5.5
5	10620.00	55.5 PK	74.0	-18.5	2.23 H	135	39.6	15.9
6	10620.00	44.8 AV	54.0	-9.2	2.23 H	135	28.9	15.9
7	15930.00	51.7 PK	74.0	-22.3	1.74 H	38	35.1	16.6
8	15930.00	41.5 AV	54.0	-12.5	1.74 H	38	24.9	16.6

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.

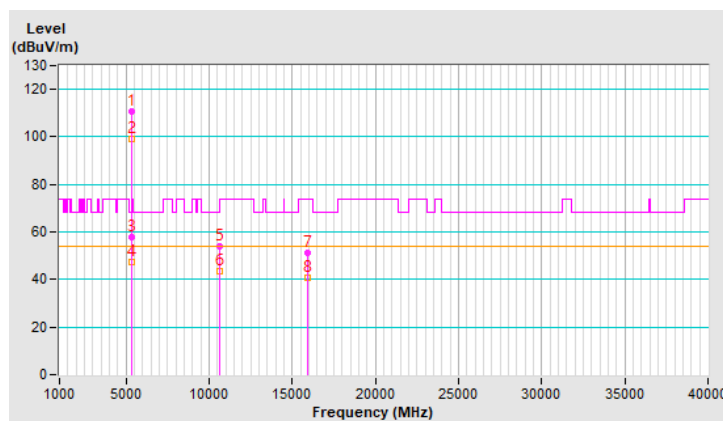


RF Mode	802.11ax (HE40)	Channel	CH 62 : 5310 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 71% RH
Tested By	Nelson Teng		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5310.00	110.9 PK			2.28 V	95	105.7	5.2
2	*5310.00	99.2 AV			2.28 V	95	94.0	5.2
3	5352.29	57.9 PK	74.0	-16.1	2.28 V	95	52.4	5.5
4	5352.29	47.1 AV	54.0	-6.9	2.28 V	95	41.6	5.5
5	10620.00	53.8 PK	74.0	-20.2	1.30 V	75	37.9	15.9
6	10620.00	43.4 AV	54.0	-10.6	1.30 V	75	27.5	15.9
7	15930.00	51.2 PK	74.0	-22.8	1.68 V	82	34.6	16.6
8	15930.00	40.7 AV	54.0	-13.3	1.68 V	82	24.1	16.6

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.

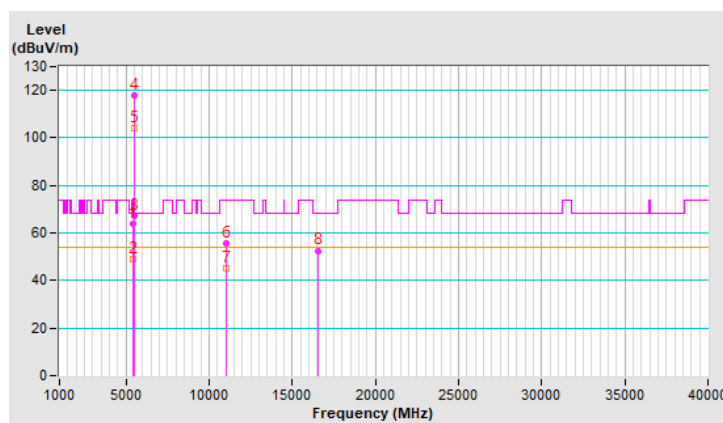


RF Mode	802.11ax (HE40)	Channel	CH 102 : 5510 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 71% RH
Tested By	Nelson Teng		

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	5457.82	64.1 PK	74.0	-9.9	2.29 H	176	58.5	5.6
2	5457.82	48.8 AV	54.0	-5.2	2.29 H	176	43.2	5.6
3	#5468.05	67.4 PK	68.2	-0.8	2.29 H	176	61.8	5.6
4	*5510.00	117.8 PK			2.29 H	176	112.1	5.7
5	*5510.00	104.1 AV			2.29 H	176	98.4	5.7
6	11020.00	55.8 PK	74.0	-18.2	2.15 H	116	39.4	16.4
7	11020.00	44.9 AV	54.0	-9.1	2.15 H	116	28.5	16.4
8	#16530.00	52.6 PK	68.2	-15.6	1.73 H	34	33.4	19.2

Remarks:

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

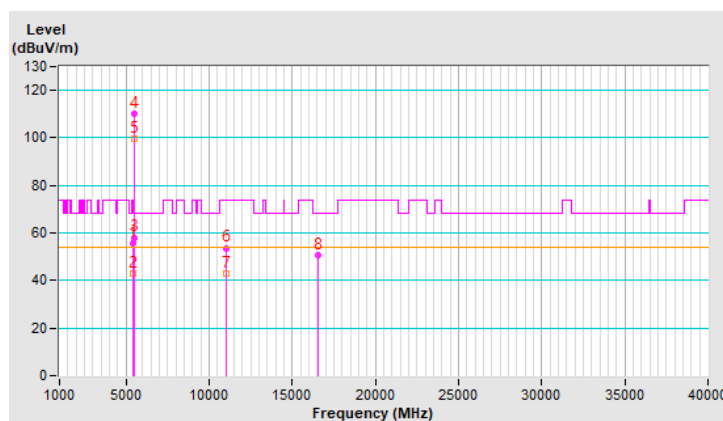


RF Mode	802.11ax (HE40)	Channel	CH 102 : 5510 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 71% RH
Tested By	Nelson Teng		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	55.4 PK	74.0	-18.6	3.90 V	101	49.8	5.6
2	5460.00	43.0 AV	54.0	-11.0	3.90 V	101	37.4	5.6
3	#5470.00	58.1 PK	68.2	-10.1	3.90 V	101	52.5	5.6
4	*5510.00	110.3 PK			3.90 V	101	104.6	5.7
5	*5510.00	99.6 AV			3.90 V	101	93.9	5.7
6	11020.00	53.7 PK	74.0	-20.3	1.24 V	66	37.3	16.4
7	11020.00	43.1 AV	54.0	-10.9	1.24 V	66	26.7	16.4
8	#16530.00	50.5 PK	68.2	-17.7	1.69 V	79	31.3	19.2

Remarks:

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

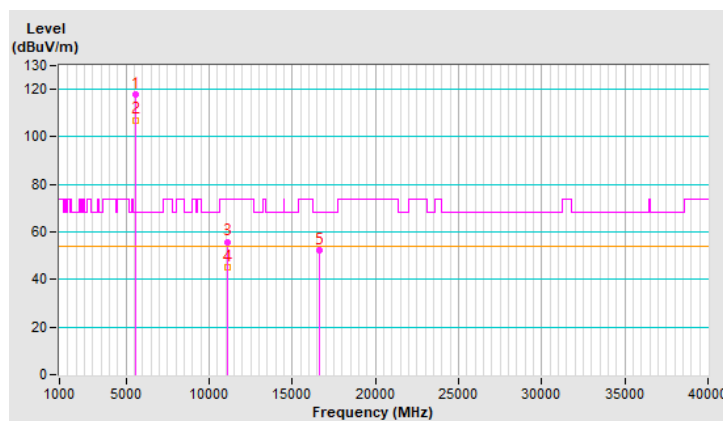


RF Mode	802.11ax (HE40)	Channel	CH 110 : 5550 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 71% RH
Tested By	Nelson Teng		

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	118.0 PK			2.32 H	180	112.4	5.6
2	*5550.00	107.1 AV			2.32 H	180	101.5	5.6
3	11100.00	55.9 PK	74.0	-18.1	2.22 H	140	39.9	16.0
4	11100.00	45.2 AV	54.0	-8.8	2.22 H	140	29.2	16.0
5	#16650.00	52.2 PK	68.2	-16.0	1.85 H	23	31.7	20.5

Remarks:

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

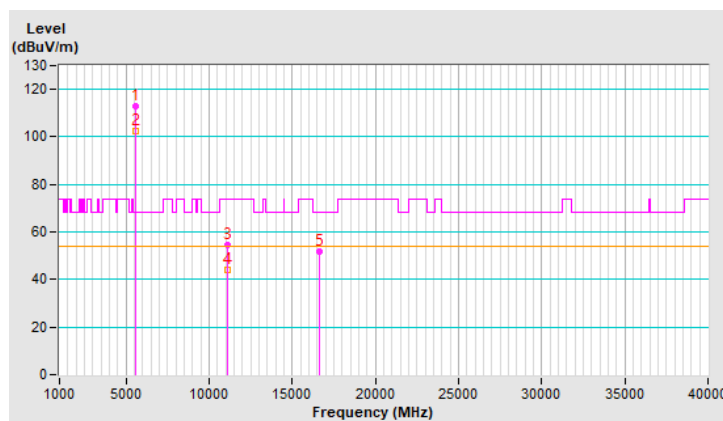


RF Mode	802.11ax (HE40)	Channel	CH 110 : 5550 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 71% RH
Tested By	Nelson Teng		

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	113.1 PK			3.91 V	94	107.5	5.6
2	*5550.00	102.3 AV			3.91 V	94	96.7	5.6
3	11100.00	54.6 PK	74.0	-19.4	1.24 V	64	38.6	16.0
4	11100.00	43.8 AV	54.0	-10.2	1.24 V	64	27.8	16.0
5	#16650.00	51.6 PK	68.2	-16.6	1.67 V	102	31.1	20.5

Remarks:

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

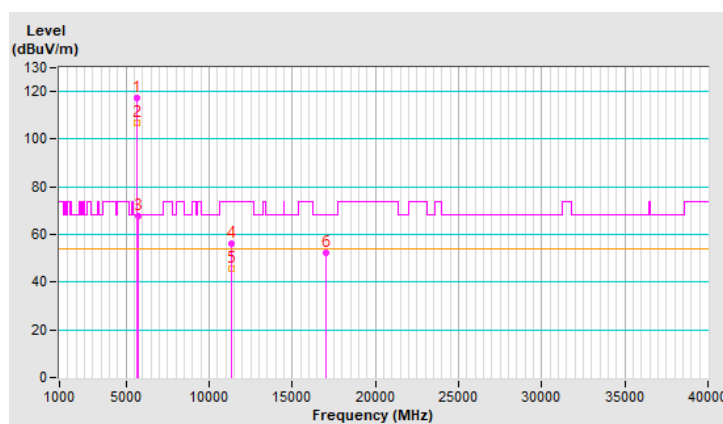


RF Mode	802.11ax (HE40)	Channel	CH 134 : 5670 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 71% RH
Tested By	Nelson Teng		

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	117.5 PK			2.20 H	175	111.8	5.7
2	*5670.00	106.6 AV			2.20 H	175	100.9	5.7
3	#5725.00	67.5 PK	68.2	-0.7	2.20 H	175	61.7	5.8
4	11340.00	56.3 PK	74.0	-17.7	2.19 H	115	39.7	16.6
5	11340.00	45.5 AV	54.0	-8.5	2.19 H	115	28.9	16.6
6	#17010.00	52.1 PK	68.2	-16.1	1.75 H	53	30.0	22.1

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.

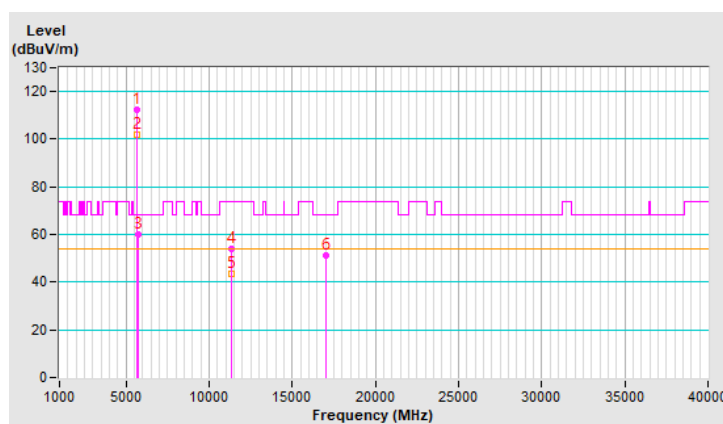


RF Mode	802.11ax (HE40)	Channel	CH 134 : 5670 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 71% RH
Tested By	Nelson Teng		

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	112.3 PK			3.92 V	100	106.6	5.7
2	*5670.00	101.7 AV			3.92 V	100	96.0	5.7
3	#5725.00	60.1 PK	68.2	-8.1	3.92 V	100	54.3	5.8
4	11340.00	53.9 PK	74.0	-20.1	1.24 V	61	37.3	16.6
5	11340.00	43.5 AV	54.0	-10.5	1.24 V	61	26.9	16.6
6	#17010.00	51.3 PK	68.2	-16.9	1.63 V	93	29.2	22.1

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.

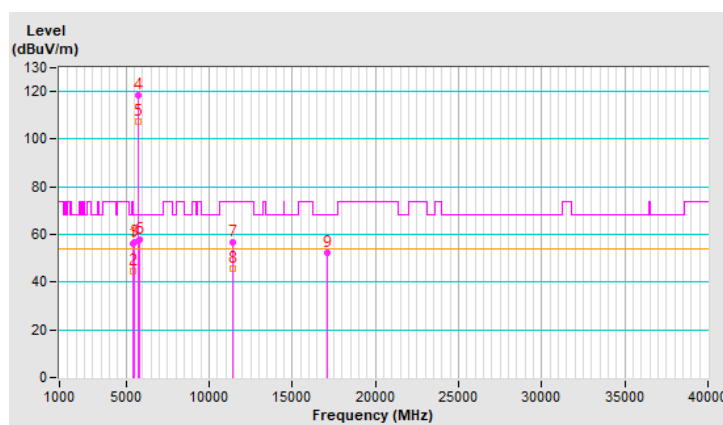


RF Mode	802.11ax (HE40)	Channel	CH 142 : 5710 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 71% RH
Tested By	Nelson Teng		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	56.1 PK	74.0	-17.9	2.22 H	160	50.5	5.6
2	5460.00	44.6 AV	54.0	-9.4	2.22 H	160	39.0	5.6
3	#5470.00	56.5 PK	68.2	-11.7	2.22 H	160	50.9	5.6
4	*5710.00	118.2 PK			2.22 H	160	112.5	5.7
5	*5710.00	107.3 AV			2.22 H	160	101.6	5.7
6	#5850.00	57.6 PK	68.2	-10.6	2.22 H	160	51.1	6.5
7	11420.00	56.7 PK	74.0	-17.3	2.26 H	141	40.0	16.7
8	11420.00	45.7 AV	54.0	-8.3	2.26 H	141	29.0	16.7
9	#17130.00	52.3 PK	68.2	-15.9	1.82 H	32	30.8	21.5

Remarks:

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

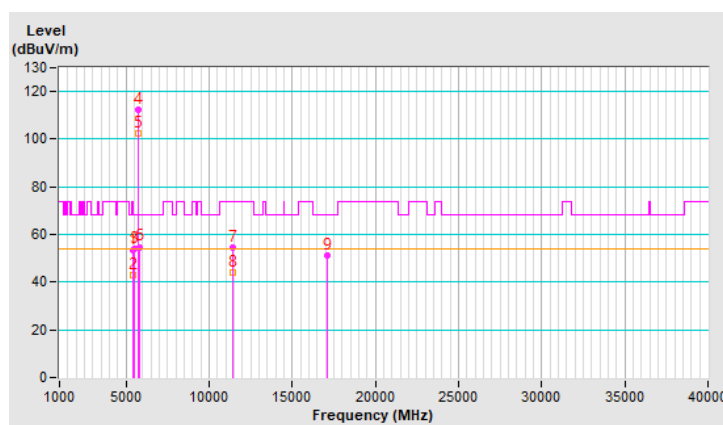


RF Mode	802.11ax (HE40)	Channel	CH 142 : 5710 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 71% RH
Tested By	Nelson Teng		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	53.6 PK	74.0	-20.4	3.94 V	91	48.0	5.6
2	5460.00	42.9 AV	54.0	-11.1	3.94 V	91	37.3	5.6
3	#5470.00	53.8 PK	68.2	-14.4	3.94 V	91	48.2	5.6
4	*5710.00	112.6 PK			3.94 V	91	106.9	5.7
5	*5710.00	102.2 AV			3.94 V	91	96.5	5.7
6	#5850.00	54.8 PK	68.2	-13.4	3.94 V	91	48.3	6.5
7	11420.00	54.3 PK	74.0	-19.7	1.34 V	69	37.6	16.7
8	11420.00	43.8 AV	54.0	-10.2	1.34 V	69	27.1	16.7
9	#17130.00	51.2 PK	68.2	-17.0	1.69 V	109	29.7	21.5

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.

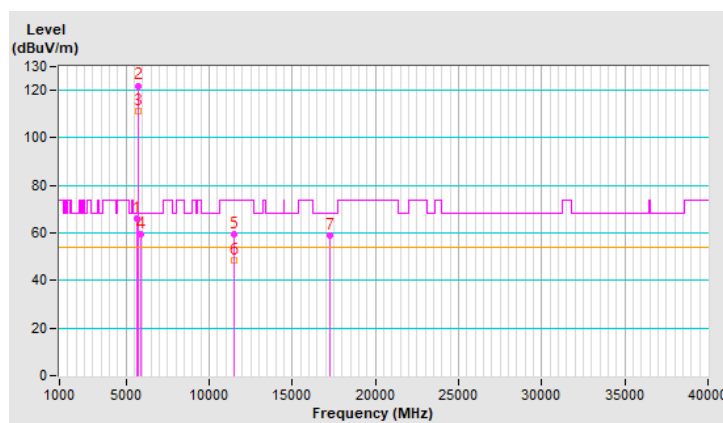


RF Mode	802.11ax (HE40)	Channel	CH 151 : 5755 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 71% RH
Tested By	Nelson Teng		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5648.54	66.2 PK	68.2	-2.0	2.09 H	175	60.3	5.9
2	*5755.00	122.0 PK			2.09 H	175	116.2	5.8
3	*5755.00	111.1 AV			2.09 H	175	105.3	5.8
4	#5931.21	59.6 PK	68.2	-8.6	2.09 H	175	53.3	6.3
5	11510.00	59.3 PK	74.0	-14.7	2.13 H	43	42.4	16.9
6	11510.00	48.3 AV	54.0	-5.7	2.13 H	43	31.4	16.9
7	#17265.00	59.0 PK	68.2	-9.2	1.84 H	221	37.9	21.1

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.

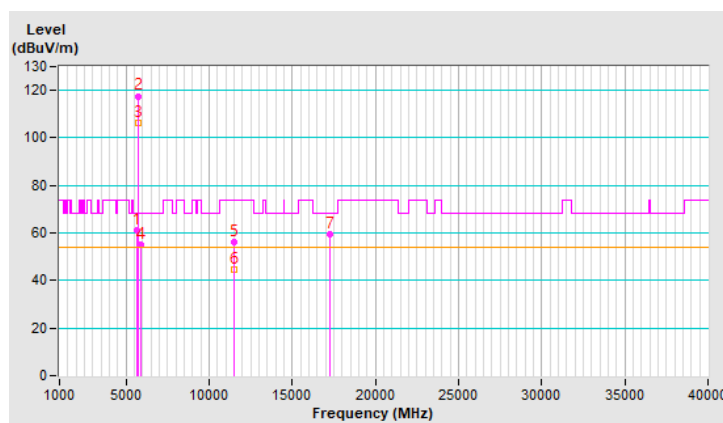


RF Mode	802.11ax (HE40)	Channel	CH 151 : 5755 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 71% RH
Tested By	Nelson Teng		

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	#5649.37	61.1 PK	68.2	-7.1	3.86 V	265	55.2	5.9
2	*5755.00	117.6 PK			3.86 V	265	111.8	5.8
3	*5755.00	106.4 AV			3.86 V	265	100.6	5.8
4	#5928.94	54.9 PK	68.2	-13.3	3.86 V	265	48.6	6.3
5	11510.00	56.2 PK	74.0	-17.8	1.05 V	109	39.3	16.9
6	11510.00	44.5 AV	54.0	-9.5	1.05 V	109	27.6	16.9
7	#17265.00	59.6 PK	68.2	-8.6	1.07 V	79	38.5	21.1

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.

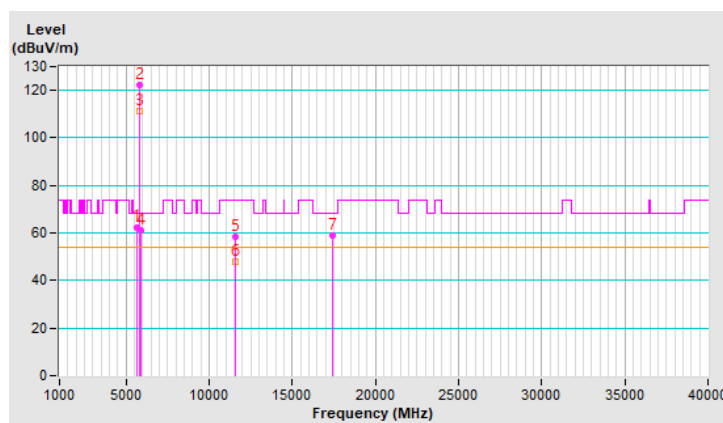


RF Mode	802.11ax (HE40)	Channel	CH 159 : 5795 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 71% RH
Tested By	Nelson Teng		

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	#5643.98	62.5 PK	68.2	-5.7	2.02 H	171	56.6	5.9
2	*5795.00	122.2 PK			2.02 H	171	115.9	6.3
3	*5795.00	111.2 AV			2.02 H	171	104.9	6.3
4	#5928.00	61.1 PK	68.2	-7.1	2.02 H	171	54.8	6.3
5	11590.00	58.6 PK	74.0	-15.4	2.08 H	36	42.0	16.6
6	11590.00	47.8 AV	54.0	-6.2	2.08 H	36	31.2	16.6
7	#17385.00	58.7 PK	68.2	-9.5	1.89 H	222	36.9	21.8

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.

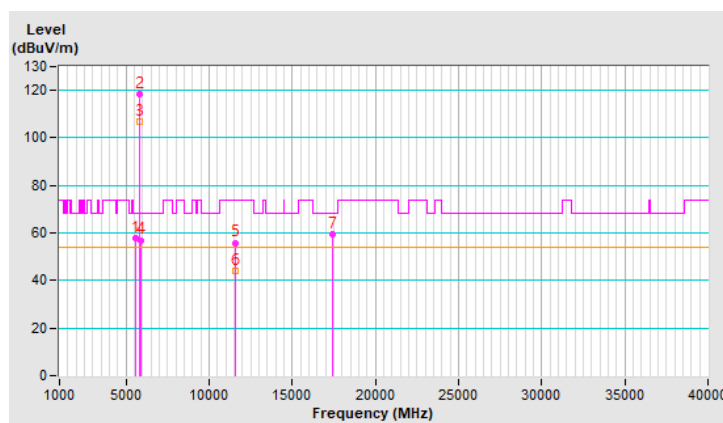


RF Mode	802.11ax (HE40)	Channel	CH 159 : 5795 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 71% RH
Tested By	Nelson Teng		

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	#5611.88	58.0 PK	68.2	-10.2	3.98 V	266	52.3	5.7
2	*5795.00	118.3 PK			3.98 V	266	112.0	6.3
3	*5795.00	106.7 AV			3.98 V	266	100.4	6.3
4	#5931.89	57.0 PK	68.2	-11.2	3.98 V	266	50.7	6.3
5	11590.00	55.9 PK	74.0	-18.1	1.00 V	108	39.3	16.6
6	11590.00	44.3 AV	54.0	-9.7	1.00 V	108	27.7	16.6
7	#17385.00	59.6 PK	68.2	-8.6	1.04 V	79	37.8	21.8

Remarks:

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

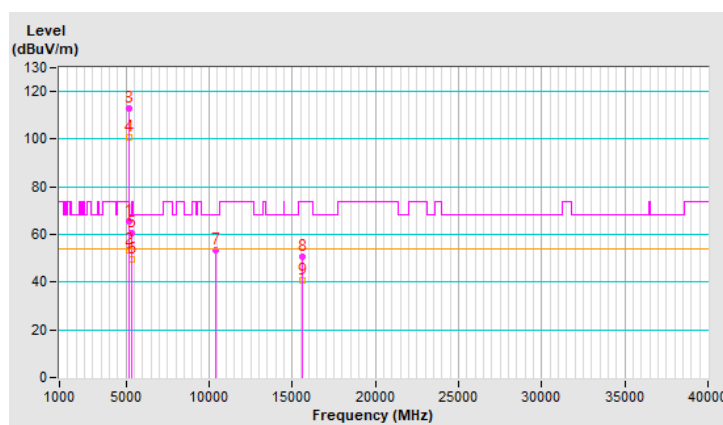


RF Mode	802.11ax (HE80)	Channel	CH 42 : 5210 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 71% RH
Tested By	Nelson Teng		

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	5148.99	65.3 PK	74.0	-8.7	2.29 H	173	59.7	5.6
2	5148.99	53.6 AV	54.0	-0.4	2.29 H	173	48.0	5.6
3	*5210.00	112.8 PK			2.29 H	173	107.3	5.5
4	*5210.00	100.9 AV			2.29 H	173	95.4	5.5
5	5350.00	60.4 PK	74.0	-13.6	2.29 H	173	54.9	5.5
6	5350.00	49.6 AV	54.0	-4.4	2.29 H	173	44.1	5.5
7	#10420.00	53.3 PK	68.2	-14.9	2.25 H	128	37.6	15.7
8	15630.00	50.8 PK	74.0	-23.2	1.85 H	31	34.2	16.6
9	15630.00	40.5 AV	54.0	-13.5	1.85 H	31	23.9	16.6

Remarks:

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

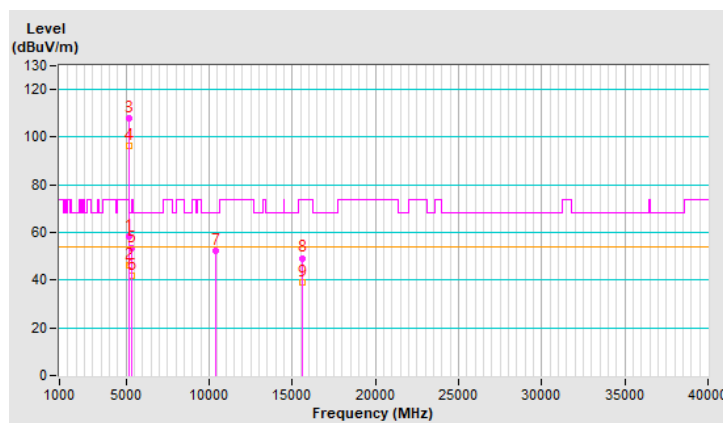


RF Mode	802.11ax (HE80)	Channel	CH 42 : 5210 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 71% RH
Tested By	Nelson Teng		

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	5146.80	58.4 PK	74.0	-15.6	2.25 V	68	52.8	5.6
2	5146.80	46.3 AV	54.0	-7.7	2.25 V	68	40.7	5.6
3	*5210.00	107.9 PK			2.25 V	68	102.4	5.5
4	*5210.00	96.3 AV			2.25 V	68	90.8	5.5
5	5350.00	53.2 PK	74.0	-20.8	2.25 V	68	47.7	5.5
6	5350.00	42.0 AV	54.0	-12.0	2.25 V	68	36.5	5.5
7	#10420.00	52.3 PK	68.2	-15.9	1.33 V	56	36.6	15.7
8	15630.00	49.3 PK	74.0	-24.7	1.65 V	96	32.7	16.6
9	15630.00	39.2 AV	54.0	-14.8	1.65 V	96	22.6	16.6

Remarks:

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

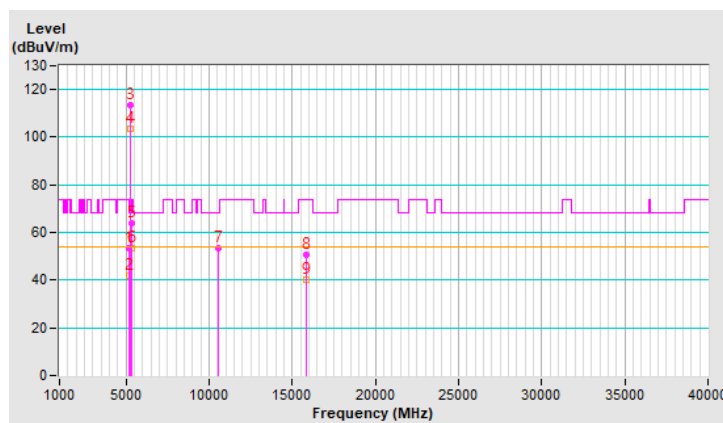


RF Mode	802.11ax (HE80)	Channel	CH 58 : 5290 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 71% RH
Tested By	Nelson Teng		

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	53.5 PK	74.0	-20.5	2.31 H	352	47.9	5.6
2	5150.00	41.9 AV	54.0	-12.1	2.31 H	352	36.3	5.6
3	*5290.00	113.3 PK			2.31 H	352	108.1	5.2
4	*5290.00	103.6 AV			2.31 H	352	98.4	5.2
5	5352.77	63.7 PK	74.0	-10.3	2.31 H	352	58.2	5.5
6	5352.77	53.5 AV	54.0	-0.5	2.31 H	352	48.0	5.5
7	#10580.00	53.5 PK	68.2	-14.7	2.22 H	116	37.6	15.9
8	15870.00	50.6 PK	74.0	-23.4	1.84 H	34	34.1	16.5
9	15870.00	40.1 AV	54.0	-13.9	1.84 H	34	23.6	16.5

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.

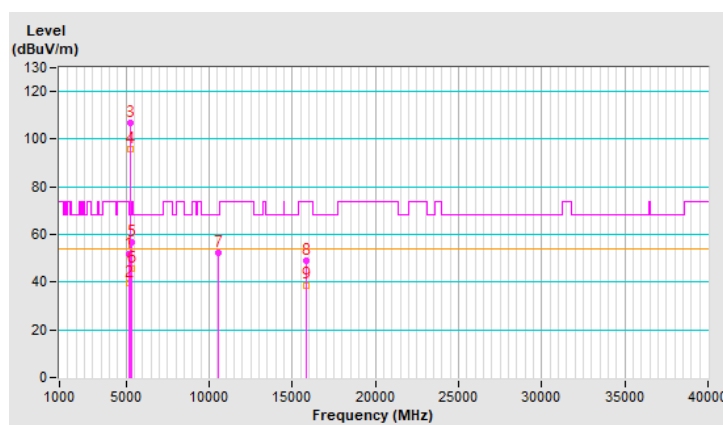


RF Mode	802.11ax (HE80)	Channel	CH 58 : 5290 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 71% RH
Tested By	Nelson Teng		

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	51.8 PK	74.0	-22.2	2.44 V	66	46.2	5.6
2	5150.00	39.7 AV	54.0	-14.3	2.44 V	66	34.1	5.6
3	*5290.00	106.7 PK			2.44 V	66	101.5	5.2
4	*5290.00	95.6 AV			2.44 V	66	90.4	5.2
5	5352.00	56.6 PK	74.0	-17.4	2.44 V	66	51.1	5.5
6	5352.00	45.7 AV	54.0	-8.3	2.44 V	66	40.2	5.5
7	#10580.00	52.5 PK	68.2	-15.7	1.28 V	41	36.6	15.9
8	15870.00	48.8 PK	74.0	-25.2	1.66 V	95	32.3	16.5
9	15870.00	38.8 AV	54.0	-15.2	1.66 V	95	22.3	16.5

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.

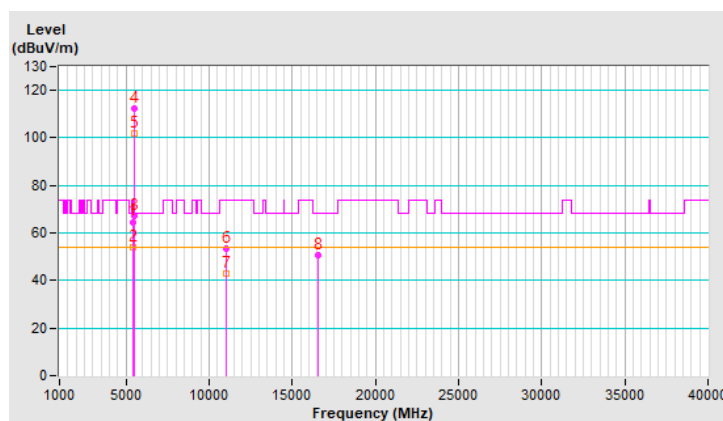


RF Mode	802.11ax (HE80)	Channel	CH 106 : 5530 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 71% RH
Tested By	Nelson Teng		

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	5458.90	64.7 PK	74.0	-9.3	1.93 H	176	59.1	5.6
2	5458.90	53.8 AV	54.0	-0.2	1.93 H	176	48.2	5.6
3	#5464.15	67.3 PK	68.2	-0.9	1.93 H	176	61.7	5.6
4	*5530.00	112.6 PK			1.93 H	176	107.0	5.6
5	*5530.00	102.0 AV			1.93 H	176	96.4	5.6
6	11060.00	53.6 PK	74.0	-20.4	2.21 H	114	37.4	16.2
7	11060.00	42.9 AV	54.0	-11.1	2.21 H	114	26.7	16.2
8	#16590.00	50.5 PK	68.2	-17.7	1.88 H	32	30.3	20.2

Remarks:

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

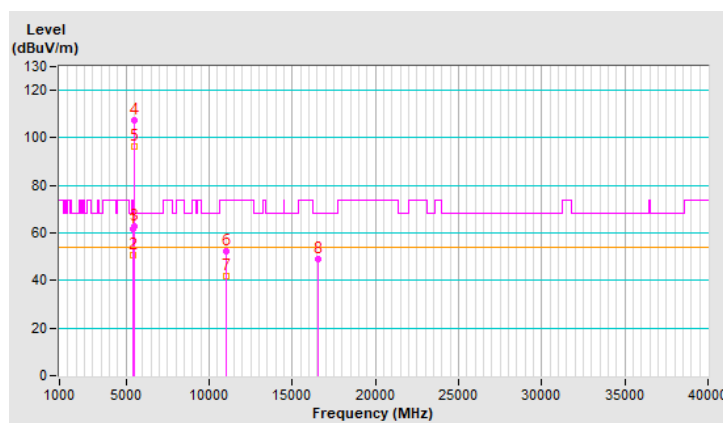


RF Mode	802.11ax (HE80)	Channel	CH 106 : 5530 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 71% RH
Tested By	Nelson Teng		

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	5457.20	61.8 PK	74.0	-12.2	2.23 V	92	56.2	5.6
2	5457.20	50.7 AV	54.0	-3.3	2.23 V	92	45.1	5.6
3	#5462.74	62.9 PK	68.2	-5.3	2.23 V	92	57.3	5.6
4	*5530.00	107.2 PK			2.23 V	92	101.6	5.6
5	*5530.00	96.4 AV			2.23 V	92	90.8	5.6
6	11060.00	52.2 PK	74.0	-21.8	1.32 V	66	36.0	16.2
7	11060.00	41.6 AV	54.0	-12.4	1.32 V	66	25.4	16.2
8	#16590.00	48.9 PK	68.2	-19.3	1.65 V	87	28.7	20.2

Remarks:

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

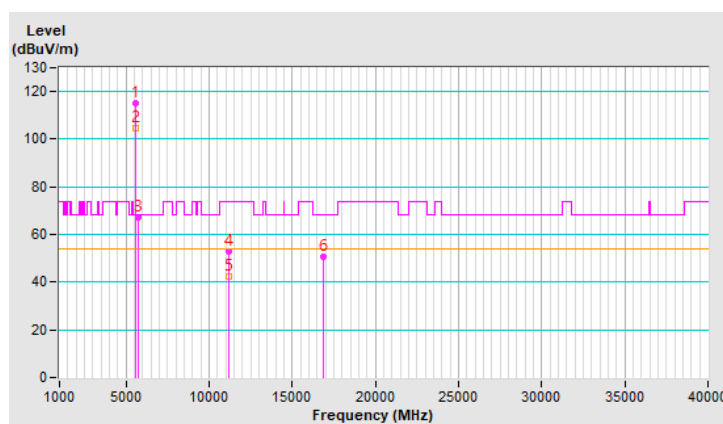


RF Mode	802.11ax (HE80)	Channel	CH 122 : 5610 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 71% RH
Tested By	Nelson Teng		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5610.00	114.9 PK			1.97 H	166	109.2	5.7
2	*5610.00	104.5 AV			1.97 H	166	98.8	5.7
3	#5725.00	67.4 PK	68.2	-0.8	1.97 H	166	61.6	5.8
4	11220.00	53.1 PK	74.0	-20.9	2.23 H	140	37.1	16.0
5	11220.00	42.6 AV	54.0	-11.4	2.23 H	140	26.6	16.0
6	#16830.00	50.8 PK	68.2	-17.4	1.86 H	17	29.6	21.2

Remarks:

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

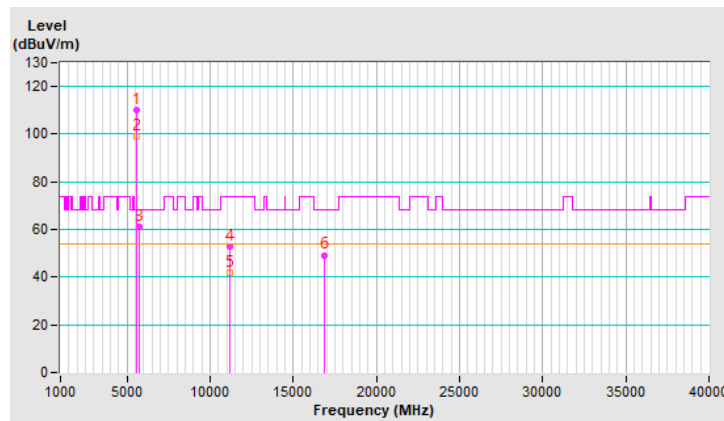


RF Mode	802.11ax (HE80)	Channel	CH 122 : 5610 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 71% RH
Tested By	Nelson Teng		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5610.00	109.9 PK			2.28 V	91	104.2	5.7
2	*5610.00	99.2 AV			2.28 V	91	93.5	5.7
3	#5725.00	61.3 PK	68.2	-6.9	2.28 V	91	55.5	5.8
4	11220.00	52.8 PK	74.0	-21.2	1.33 V	55	36.8	16.0
5	11220.00	41.8 AV	54.0	-12.2	1.33 V	55	25.8	16.0
6	#16830.00	49.3 PK	68.2	-18.9	1.60 V	99	28.1	21.2

Remarks:

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

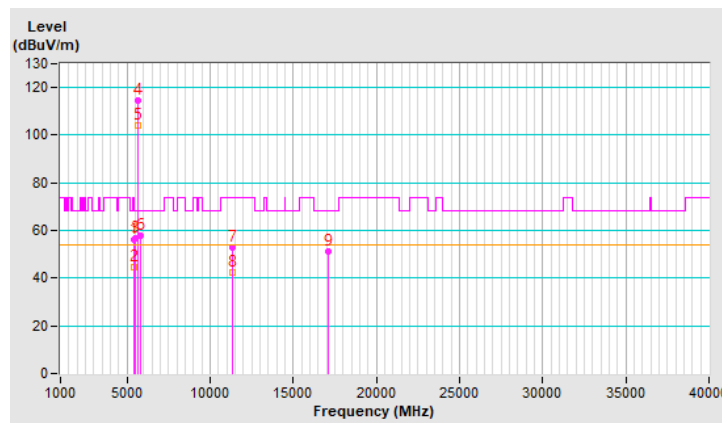


RF Mode	802.11ax (HE80)	Channel	CH 138 : 5690 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 71% RH
Tested By	Nelson Teng		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	56.3 PK	74.0	-17.7	1.92 H	169	50.7	5.6
2	5460.00	44.5 AV	54.0	-9.5	1.92 H	169	38.9	5.6
3	#5470.00	56.6 PK	68.2	-11.6	1.92 H	169	51.0	5.6
4	*5690.00	114.6 PK			1.92 H	169	108.8	5.8
5	*5690.00	104.2 AV			1.92 H	169	98.4	5.8
6	#5850.00	57.6 PK	68.2	-10.6	1.92 H	169	51.1	6.5
7	11380.00	52.9 PK	74.0	-21.1	2.21 H	127	36.2	16.7
8	11380.00	42.4 AV	54.0	-11.6	2.21 H	127	25.7	16.7
9	#17070.00	51.1 PK	68.2	-17.1	1.84 H	41	29.4	21.7

Remarks:

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

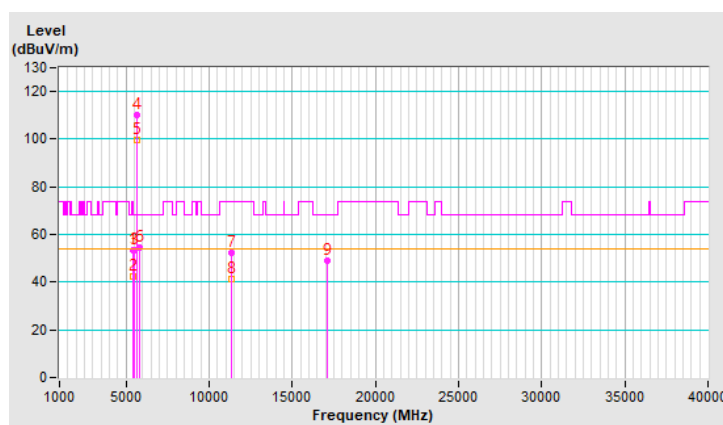


RF Mode	802.11ax (HE80)	Channel	CH 138 : 5690 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 71% RH
Tested By	Nelson Teng		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	53.2 PK	74.0	-20.8	2.19 V	83	47.6	5.6
2	5460.00	42.4 AV	54.0	-11.6	2.19 V	83	36.8	5.6
3	#5470.00	53.4 PK	68.2	-14.8	2.19 V	83	47.8	5.6
4	*5690.00	110.2 PK			2.19 V	83	104.4	5.8
5	*5690.00	99.6 AV			2.19 V	83	93.8	5.8
6	#5850.00	54.7 PK	68.2	-13.5	2.19 V	83	48.2	6.5
7	11380.00	52.4 PK	74.0	-21.6	1.35 V	44	35.7	16.7
8	11380.00	41.4 AV	54.0	-12.6	1.35 V	44	24.7	16.7
9	#17070.00	49.1 PK	68.2	-19.1	1.67 V	86	27.4	21.7

Remarks:

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

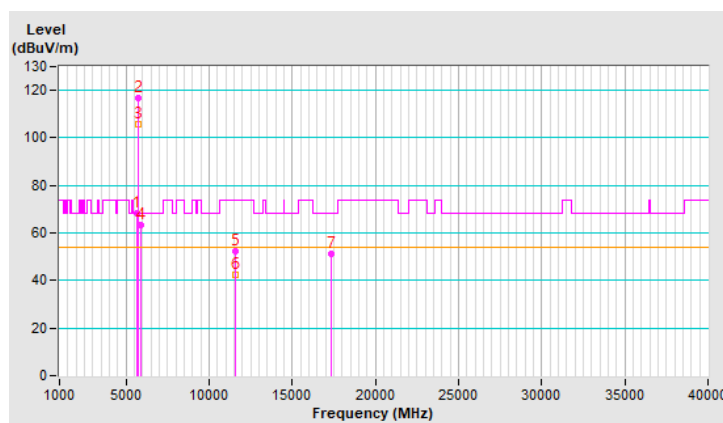


RF Mode	802.11ax (HE80)	Channel	CH 155 : 5775 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 71% RH
Tested By	Nelson Teng		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5648.14	68.1 PK	68.2	-0.1	2.08 H	175	62.2	5.9
2	*5775.00	116.6 PK			2.08 H	175	110.5	6.1
3	*5775.00	105.8 AV			2.08 H	175	99.7	6.1
4	#5928.67	63.1 PK	68.2	-5.1	2.08 H	175	56.8	6.3
5	11550.00	52.5 PK	74.0	-21.5	2.25 H	121	35.8	16.7
6	11550.00	42.2 AV	54.0	-11.8	2.25 H	121	25.5	16.7
7	#17325.00	51.0 PK	68.2	-17.2	1.83 H	41	29.8	21.2

Remarks:

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

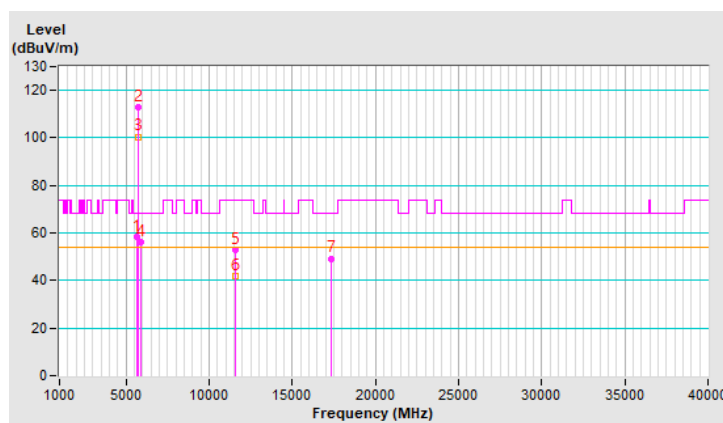


RF Mode	802.11ax (HE80)	Channel	CH 155 : 5775 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 71% RH
Tested By	Nelson Teng		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5646.59	58.4 PK	68.2	-9.8	4.00 V	264	52.5	5.9
2	*5775.00	113.0 PK			4.00 V	264	106.9	6.1
3	*5775.00	100.5 AV			4.00 V	264	94.4	6.1
4	#5928.25	56.0 PK	68.2	-12.2	4.00 V	264	49.7	6.3
5	11550.00	52.7 PK	74.0	-21.3	1.30 V	50	36.0	16.7
6	11550.00	41.6 AV	54.0	-12.4	1.30 V	50	24.9	16.7
7	#17325.00	49.3 PK	68.2	-18.9	1.64 V	89	28.1	21.2

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.

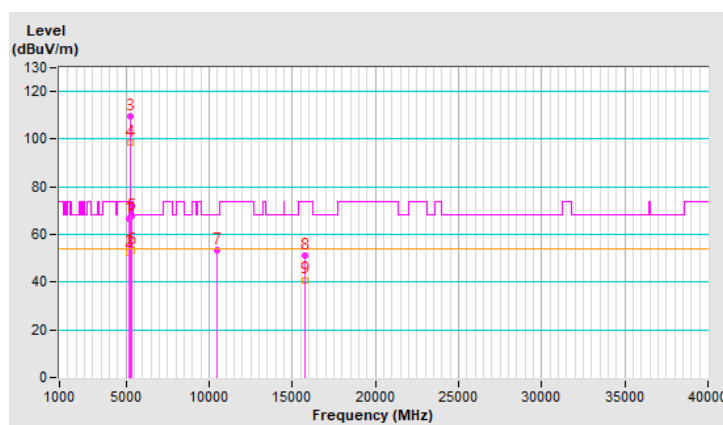


RF Mode	802.11ax (HE160)	Channel	CH 50 : 5250 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 71% RH
Tested By	Nelson Teng		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5147.00	66.5 PK	74.0	-7.5	2.33 H	175	60.9	5.6
2	5147.00	52.5 AV	54.0	-1.5	2.33 H	175	46.9	5.6
3	*5250.00	109.5 PK			2.33 H	175	104.3	5.2
4	*5250.00	98.8 AV			2.33 H	175	93.6	5.2
5	5352.50	67.5 PK	74.0	-6.5	2.33 H	175	62.0	5.5
6	5352.50	53.4 AV	54.0	-0.6	2.33 H	175	47.9	5.5
7	#10500.00	53.2 PK	68.2	-15.0	2.20 H	147	37.3	15.9
8	15750.00	51.2 PK	74.0	-22.8	1.85 H	27	34.6	16.6
9	15750.00	41.0 AV	54.0	-13.0	1.85 H	27	24.4	16.6

Remarks:

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

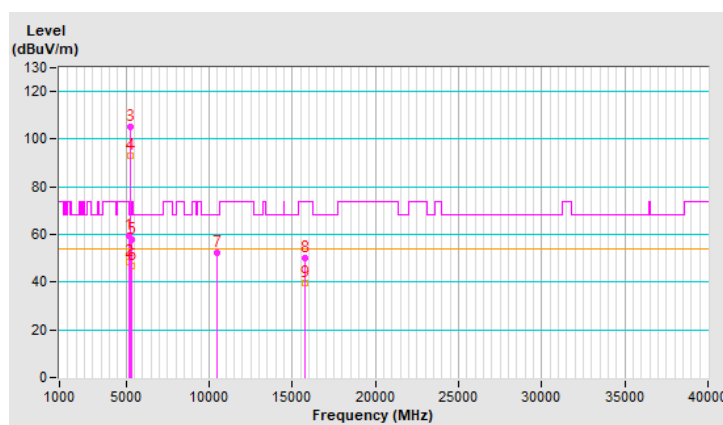


RF Mode	802.11ax (HE160)	Channel	CH 50 : 5250 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 71% RH
Tested By	Nelson Teng		

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	5146.37	59.4 PK	74.0	-14.6	1.61 V	90	53.8	5.6
2	5146.37	48.7 AV	54.0	-5.3	1.61 V	90	43.1	5.6
3	*5250.00	105.1 PK			1.61 V	90	99.9	5.2
4	*5250.00	93.1 AV			1.61 V	90	87.9	5.2
5	5350.54	57.8 PK	74.0	-16.2	1.61 V	90	52.3	5.5
6	5350.54	46.7 AV	54.0	-7.3	1.61 V	90	41.2	5.5
7	#10500.00	52.2 PK	68.2	-16.0	1.31 V	53	36.3	15.9
8	15750.00	50.0 PK	74.0	-24.0	1.60 V	106	33.4	16.6
9	15750.00	39.6 AV	54.0	-14.4	1.60 V	106	23.0	16.6

Remarks:

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

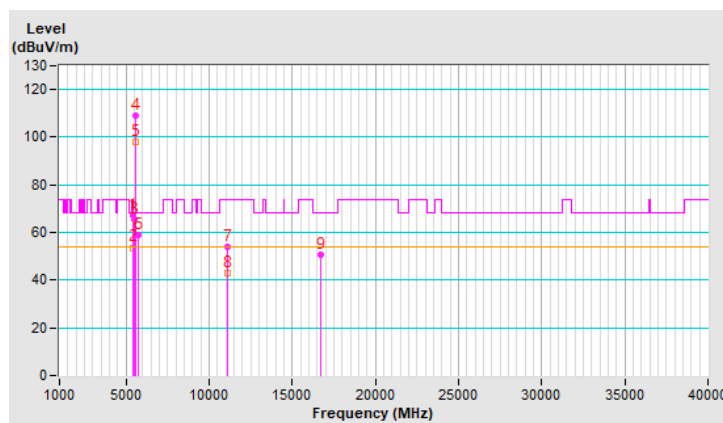


RF Mode	802.11ax (HE160)	Channel	CH 114 : 5570 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 71% RH
Tested By	Nelson Teng		

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	5458.69	67.4 PK	74.0	-6.6	2.12 H	178	61.8	5.6
2	5458.69	53.7 AV	54.0	-0.3	2.12 H	178	48.1	5.6
3	#5468.95	65.4 PK	68.2	-2.8	2.12 H	178	59.8	5.6
4	*5570.00	108.8 PK			2.12 H	178	103.2	5.6
5	*5570.00	98.0 AV			2.12 H	178	92.4	5.6
6	#5744.45	58.8 PK	68.2	-9.4	2.12 H	178	53.0	5.8
7	11140.00	53.8 PK	74.0	-20.2	2.23 H	135	37.8	16.0
8	11140.00	43.1 AV	54.0	-10.9	2.23 H	135	27.1	16.0
9	#16710.00	50.9 PK	68.2	-17.3	1.92 H	10	30.0	20.9

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.

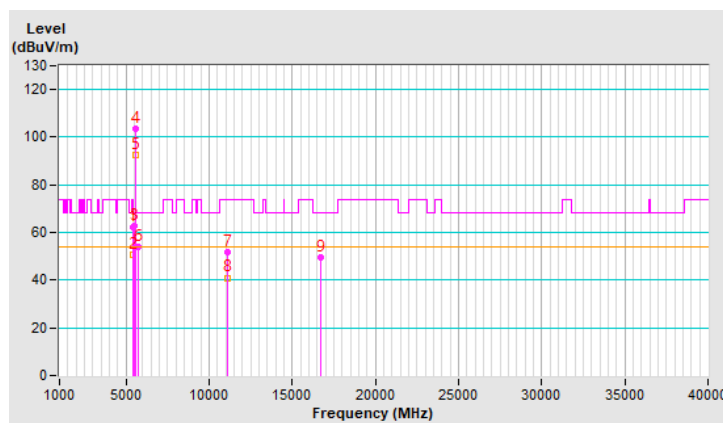


RF Mode	802.11ax (HE160)	Channel	CH 114 : 5570 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 71% RH
Tested By	Nelson Teng		

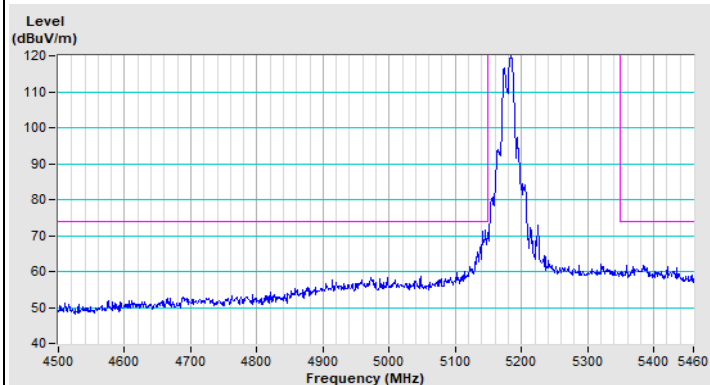
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	62.2 PK	74.0	-11.8	1.78 V	81	56.6	5.6
2	5460.00	50.7 AV	54.0	-3.3	1.78 V	81	45.1	5.6
3	#5470.00	62.9 PK	68.2	-5.3	1.78 V	81	57.3	5.6
4	*5570.00	103.3 PK			1.78 V	81	97.7	5.6
5	*5570.00	92.7 AV			1.78 V	81	87.1	5.6
6	#5729.46	54.0 PK	68.2	-14.2	1.78 V	81	48.2	5.8
7	11140.00	52.0 PK	74.0	-22.0	1.33 V	71	36.0	16.0
8	11140.00	41.0 AV	54.0	-13.0	1.33 V	71	25.0	16.0
9	#16710.00	49.7 PK	68.2	-18.5	1.68 V	106	28.8	20.9

Remarks:

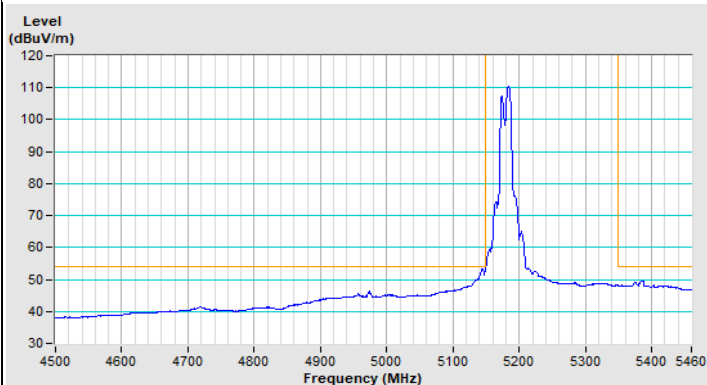
1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency,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



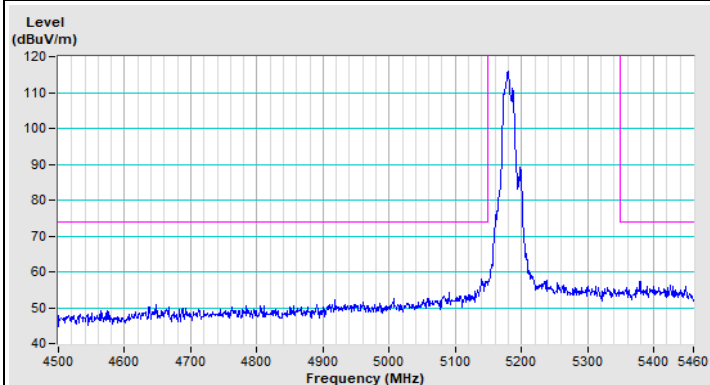
802.11a Channel 36



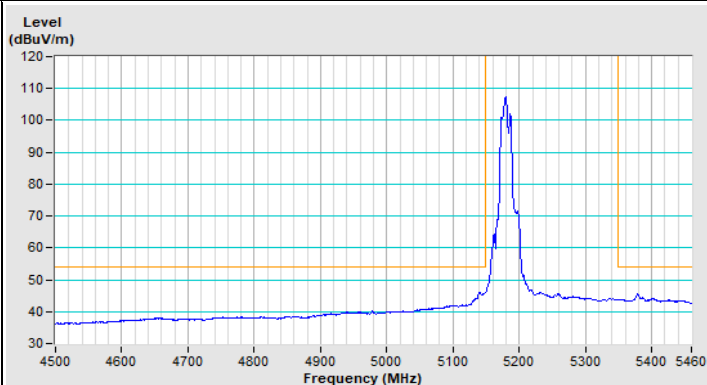
Horizontal (Peak)



Horizontal (Average)

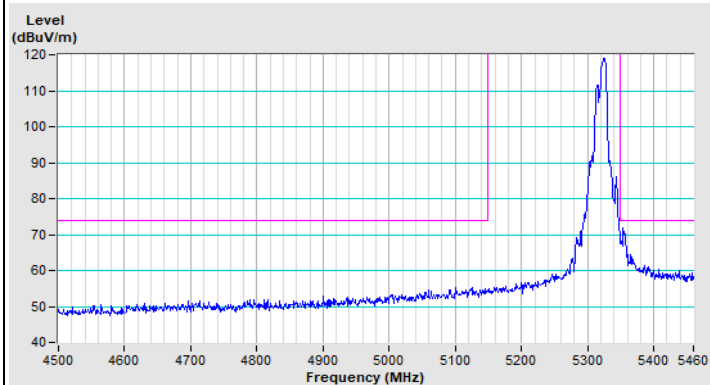


Vertical (Peak)

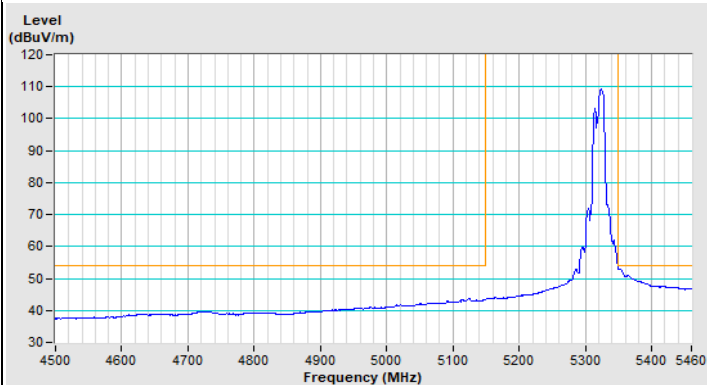


Vertical (Average)

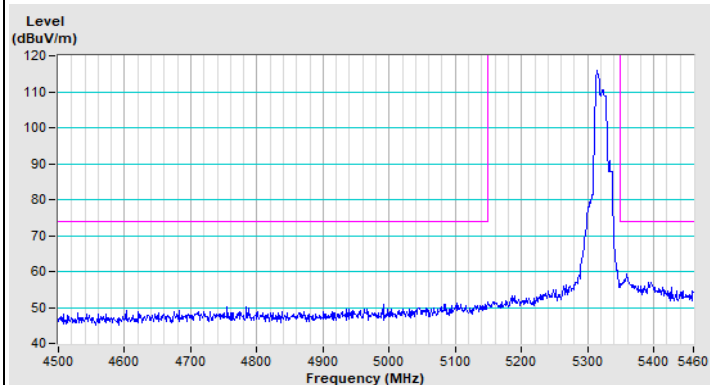
802.11a Channel 64



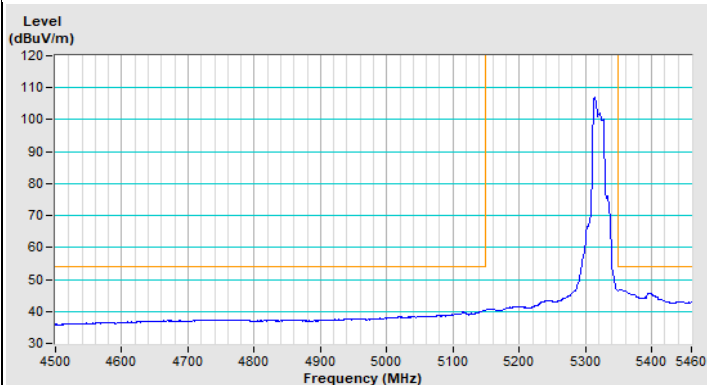
Horizontal (Peak)



Horizontal (Average)

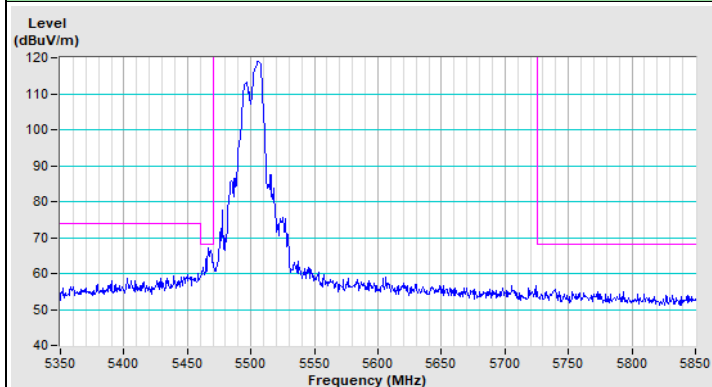


Vertical (Peak)

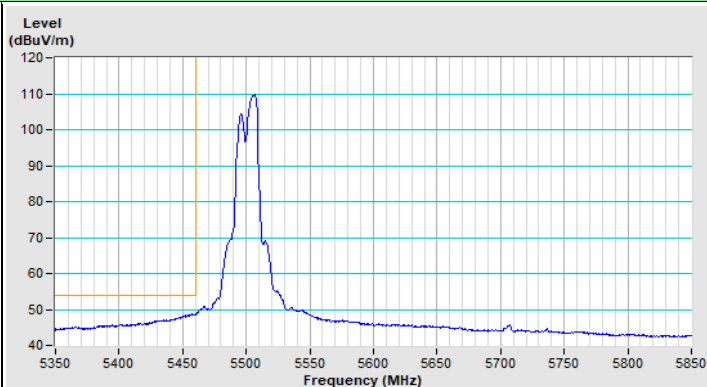


Vertical (Average)

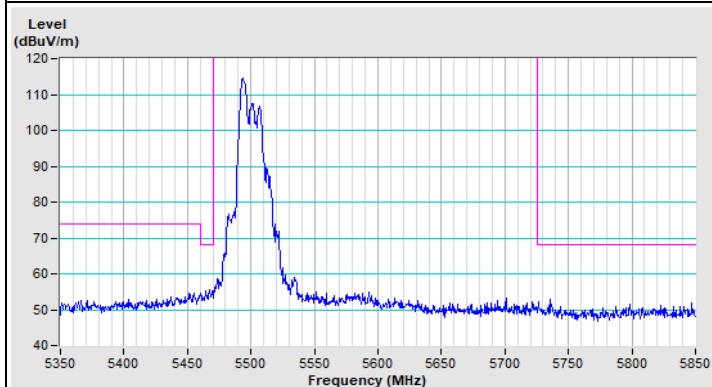
802.11a Channel 100



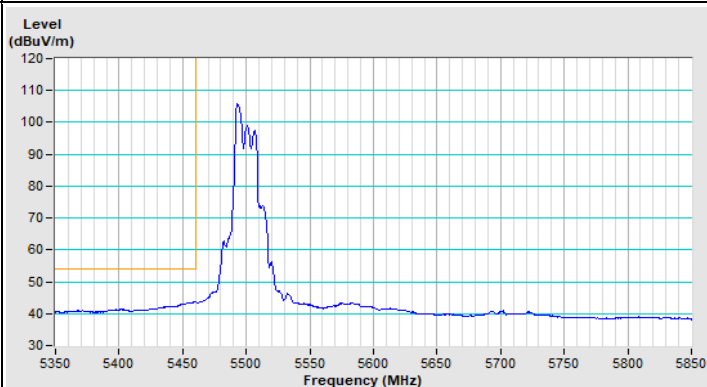
Horizontal (Peak)



Horizontal (Average)

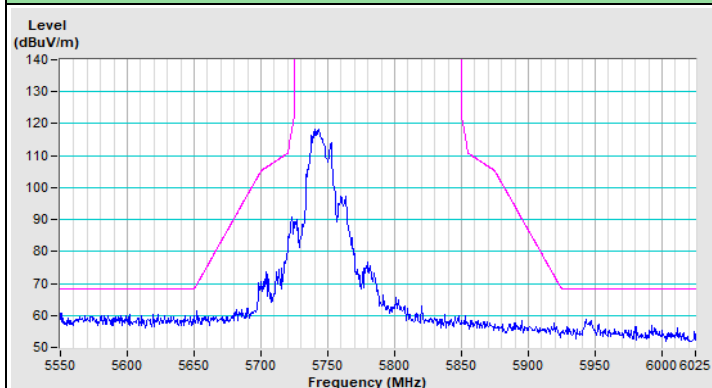


Vertical (Peak)

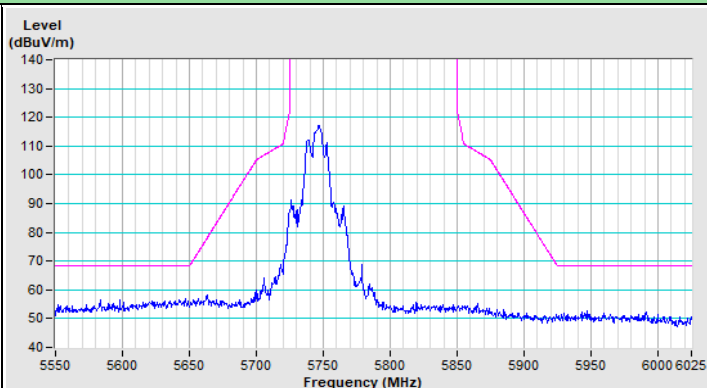


Vertical (Average)

802.11a Channel 149

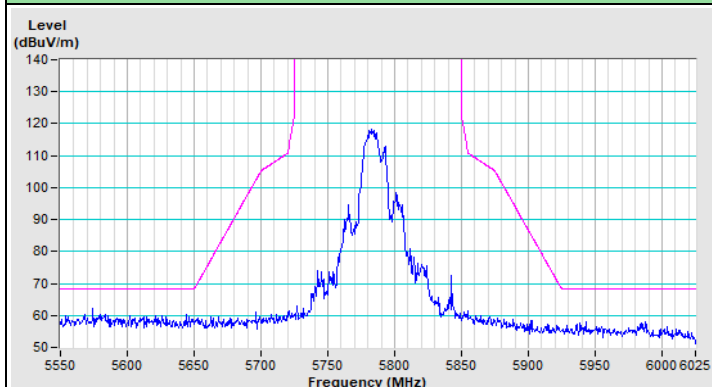


Horizontal (Peak)

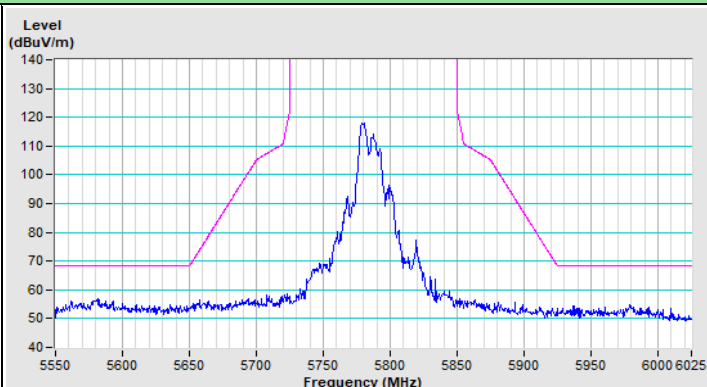


Vertical (Peak)

802.11a Channel 157

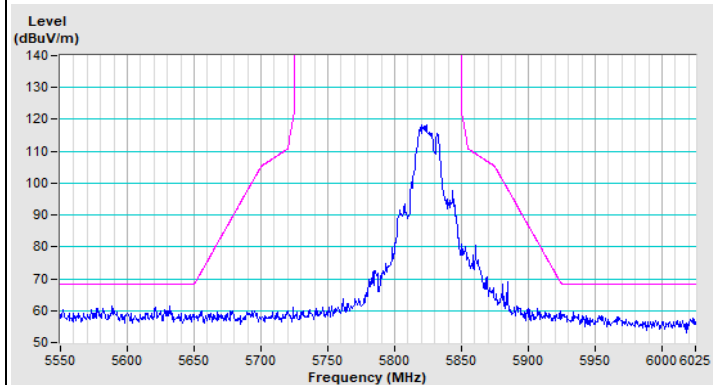


Horizontal (Peak)

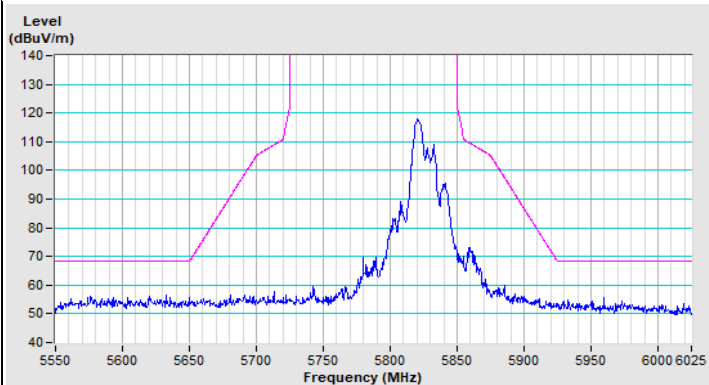


Vertical (Peak)

802.11a Channel 165

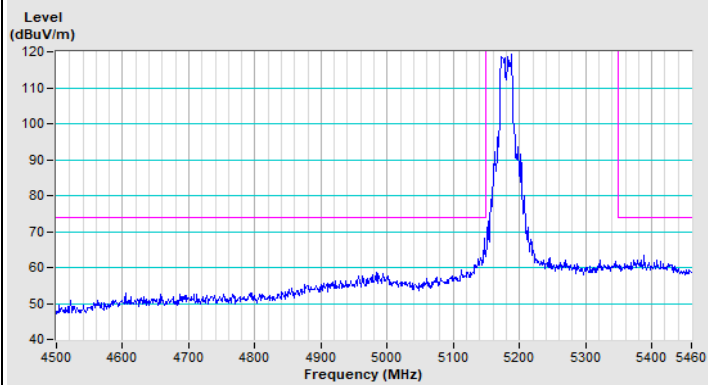


Horizontal (Peak)

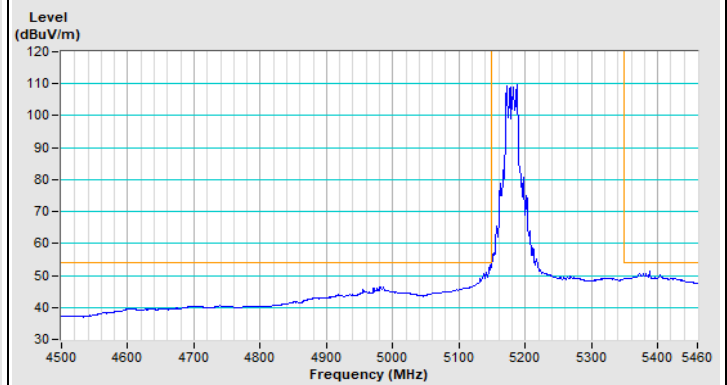


Vertical (Peak)

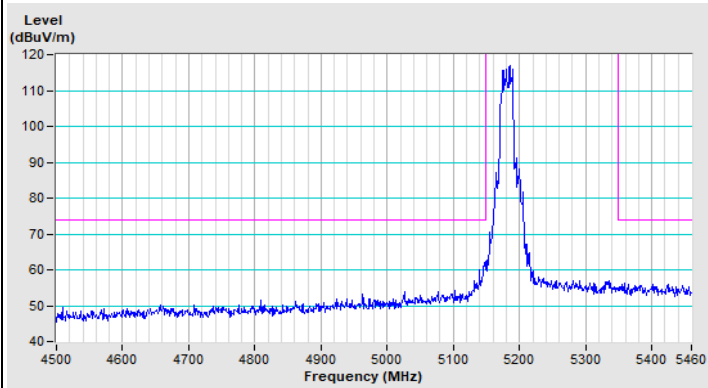
802.11ax (HE20) Channel 36



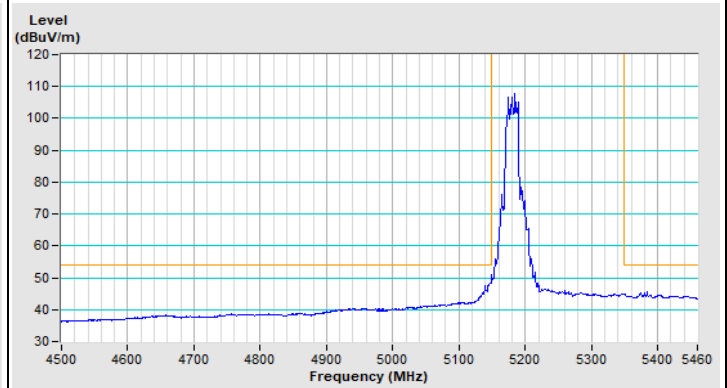
Horizontal (Peak)



Horizontal (Average)

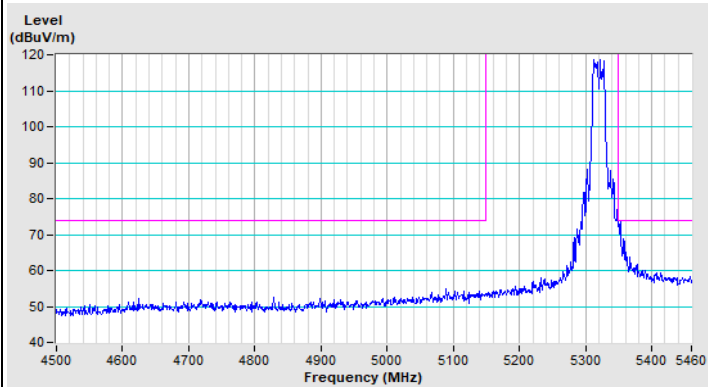


Vertical (Peak)

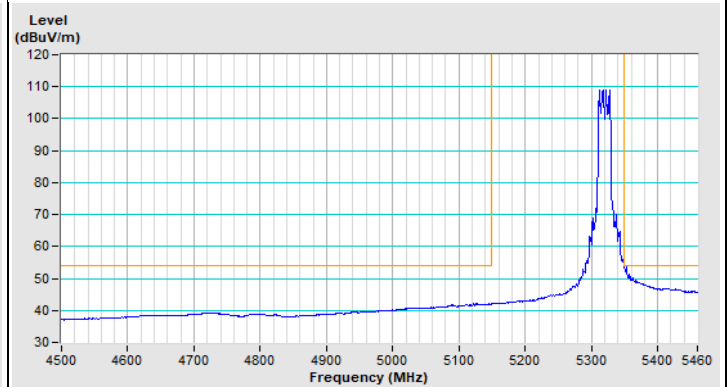


Vertical (Average)

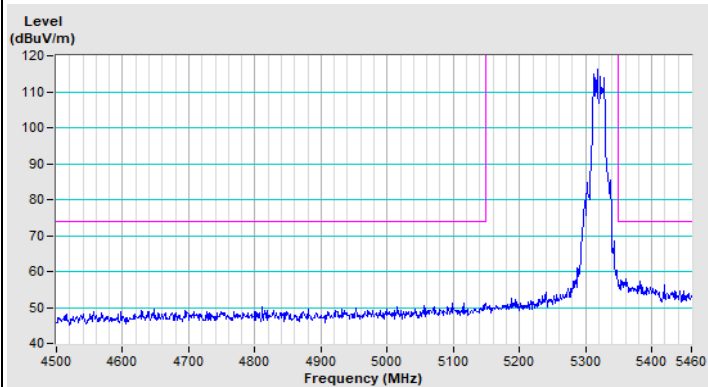
802.11ax (HE20) Channel 64



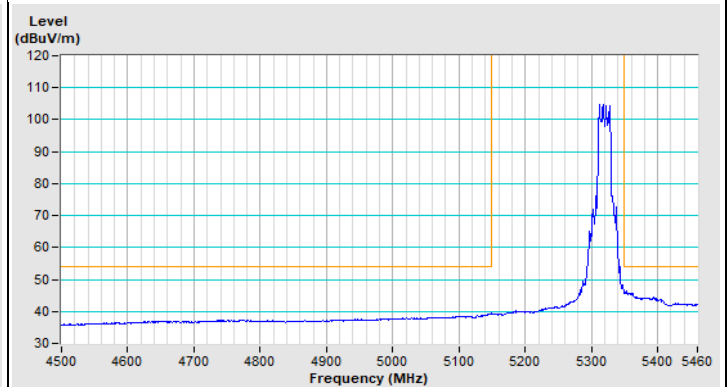
Horizontal (Peak)



Horizontal (Average)

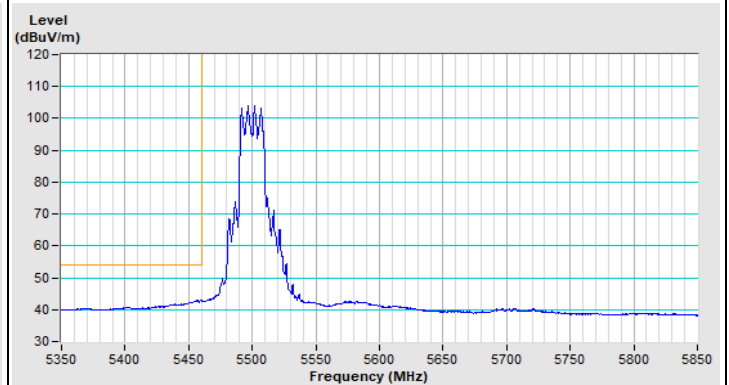
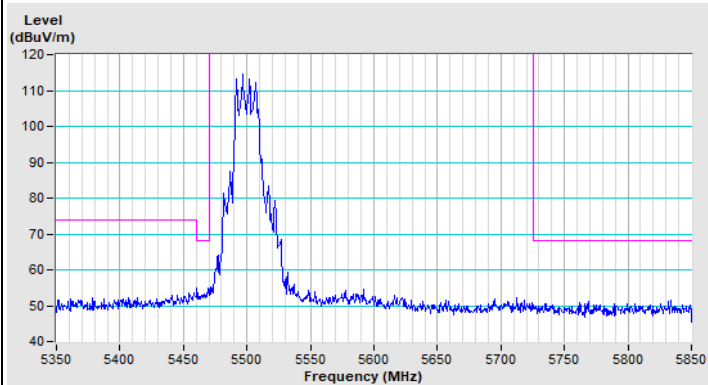
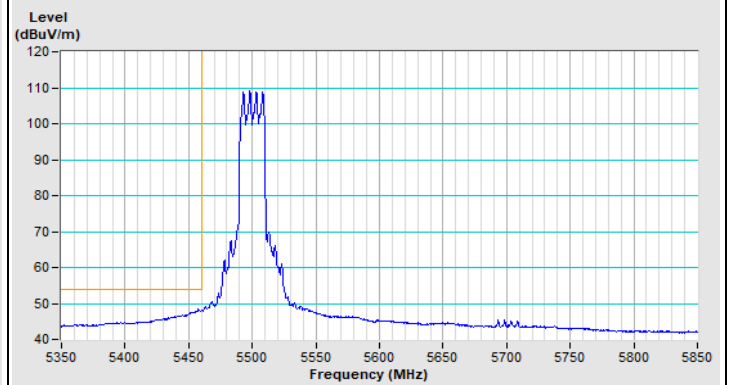
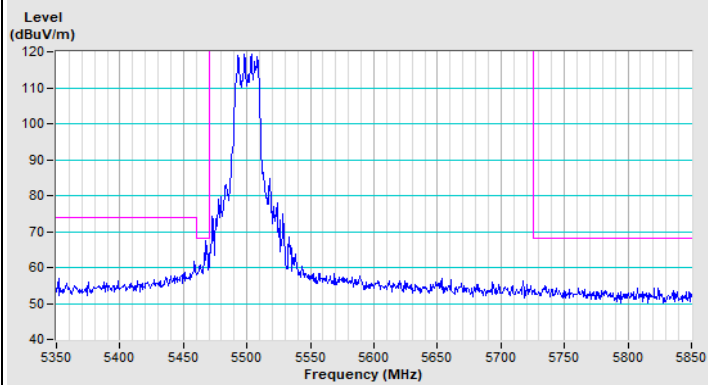


Vertical (Peak)

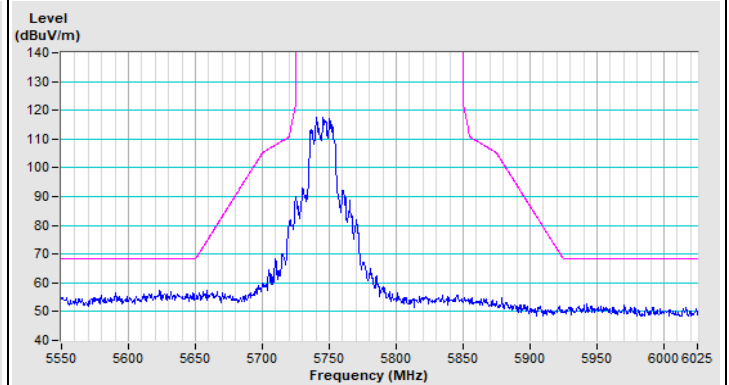
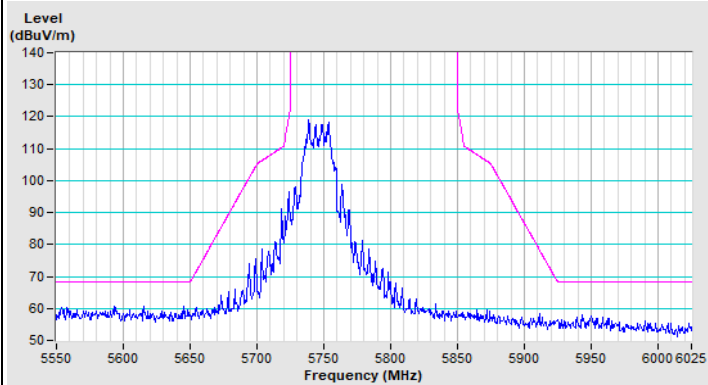


Vertical (Average)

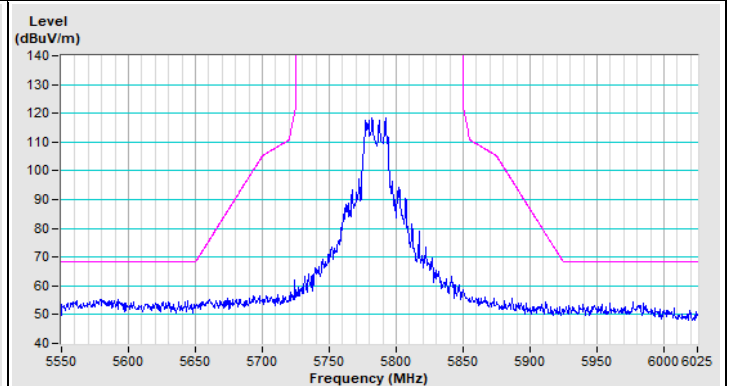
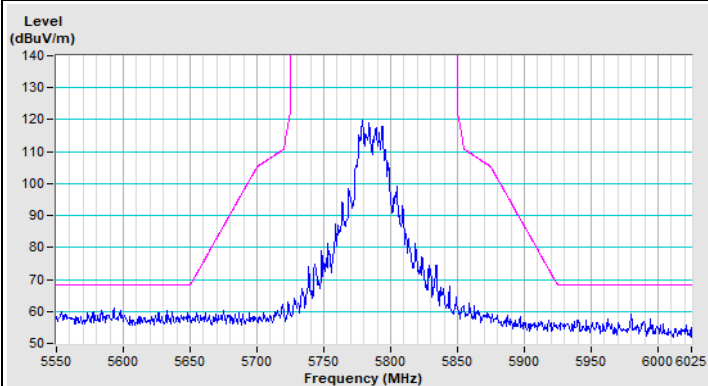
802.11ax (HE20) Channel 100



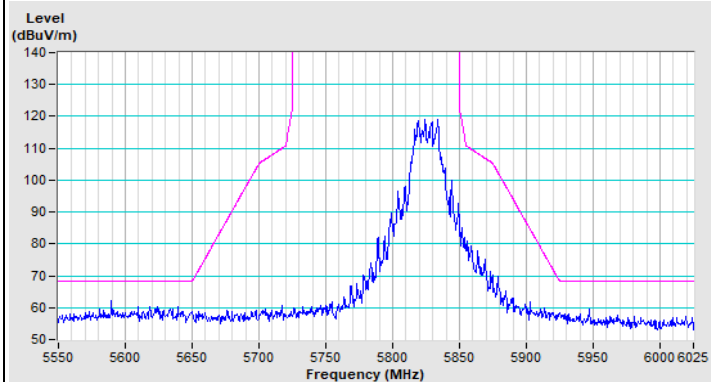
802.11ax (HE20) Channel 149



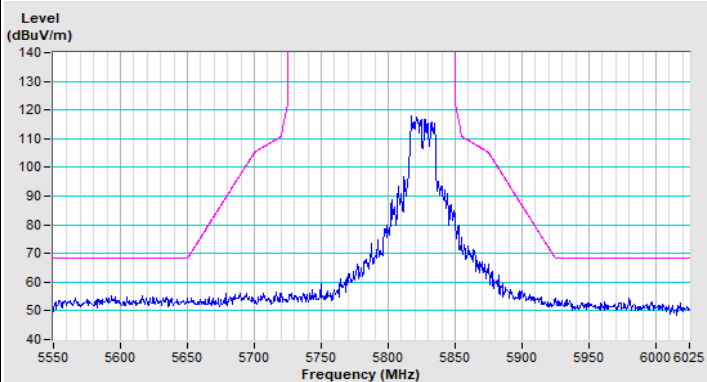
802.11ax (HE20) Channel 157



802.11ax (HE20) Channel 165

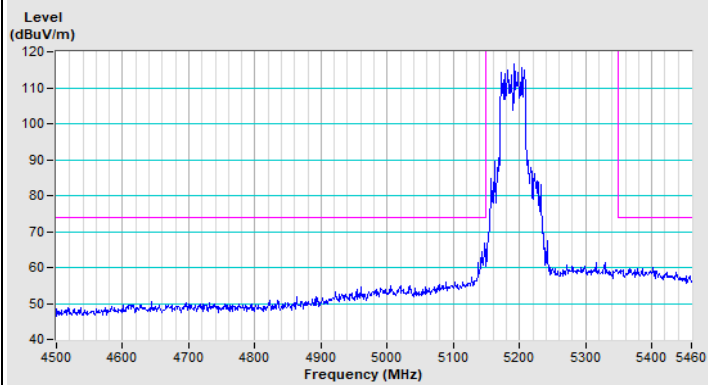


Horizontal (Peak)

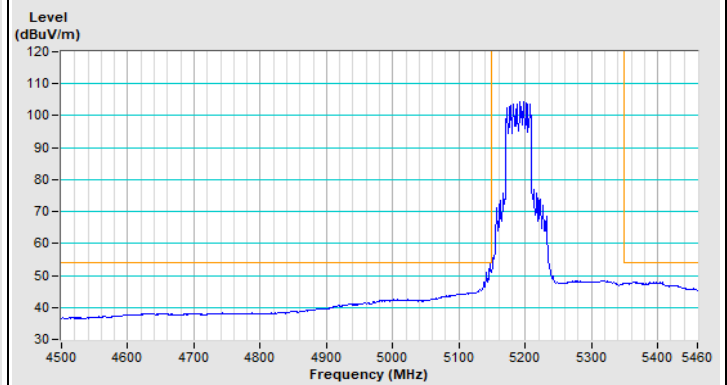


Vertical (Peak)

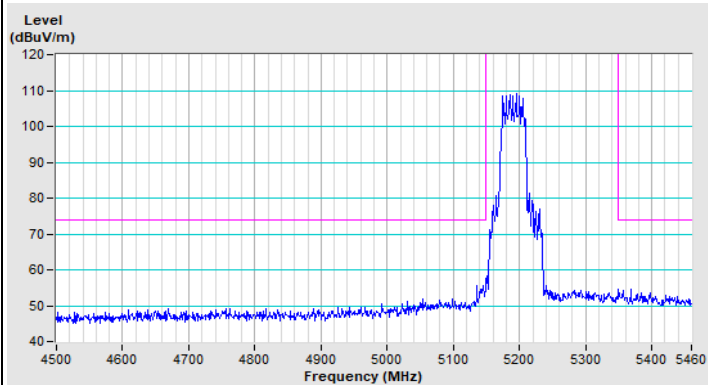
802.11ax (HE40) Channel 38



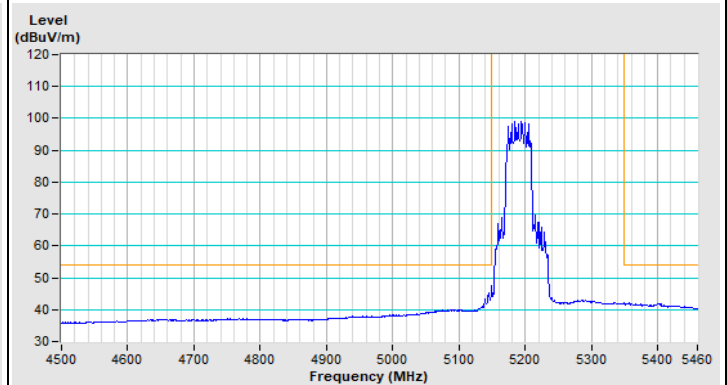
Horizontal (Peak)



Horizontal (Average)

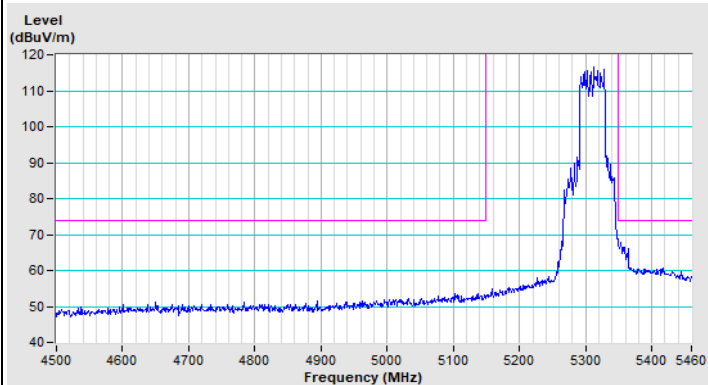


Vertical (Peak)

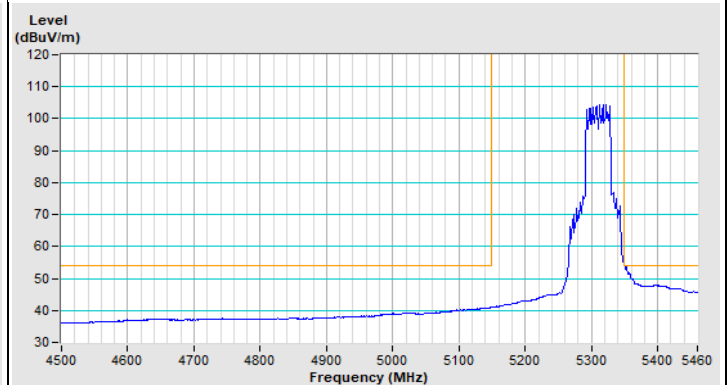


Vertical (Average)

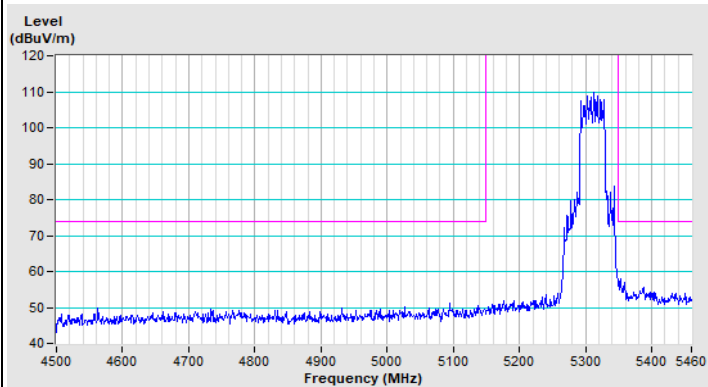
802.11ax (HE40) Channel 62



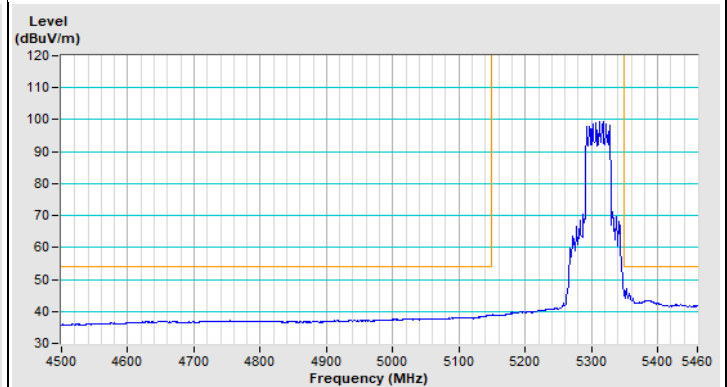
Horizontal (Peak)



Horizontal (Average)

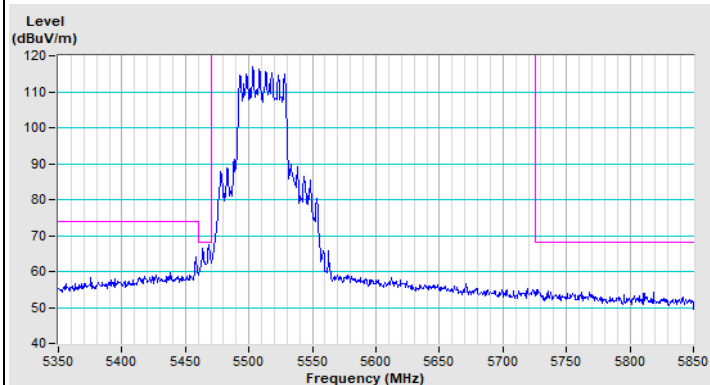


Vertical (Peak)

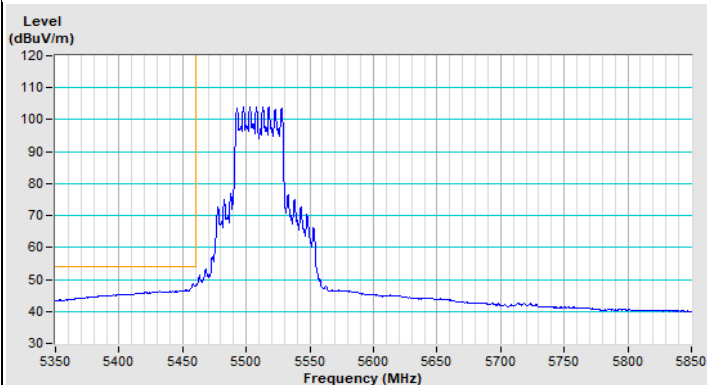


Vertical (Average)

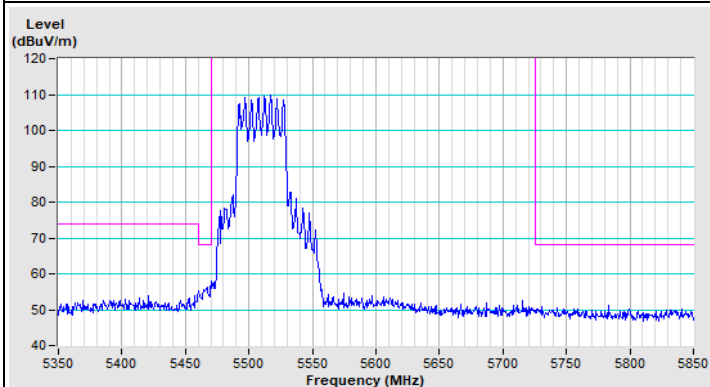
802.11ax (HE40) Channel 102



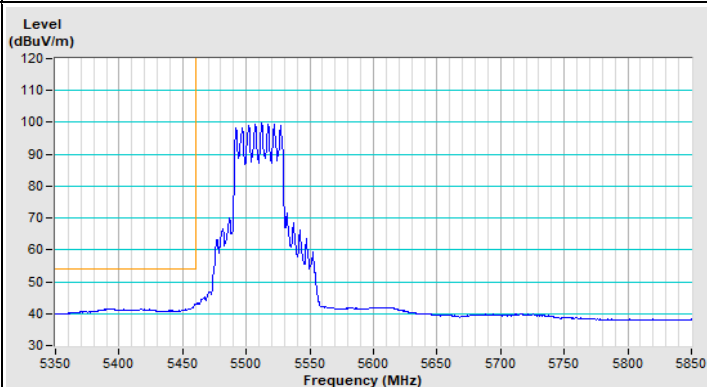
Horizontal (Peak)



Horizontal (Average)

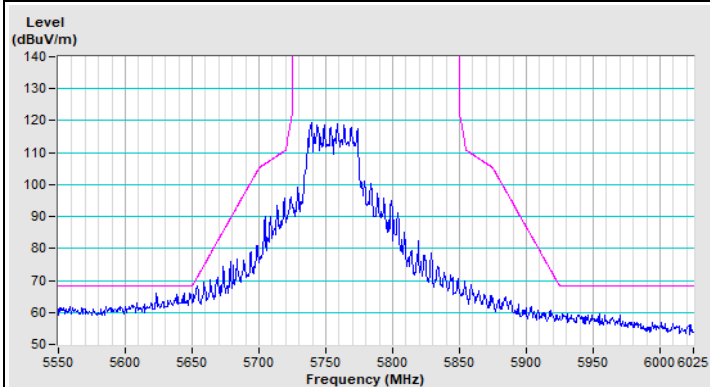


Vertical (Peak)

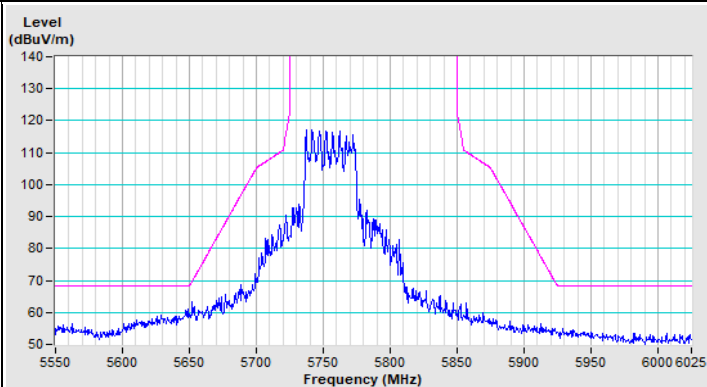


Vertical (Average)

802.11ax (HE40) Channel 151

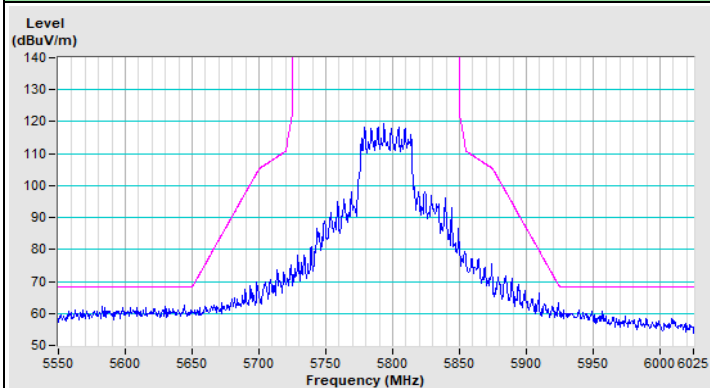


Horizontal (Peak)

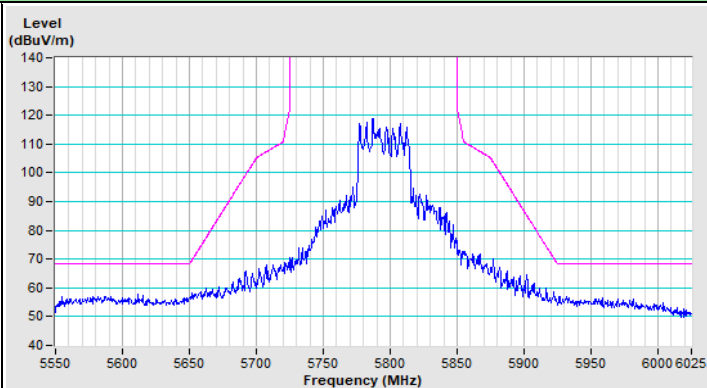


Vertical (Peak)

802.11ax (HE40) Channel 159

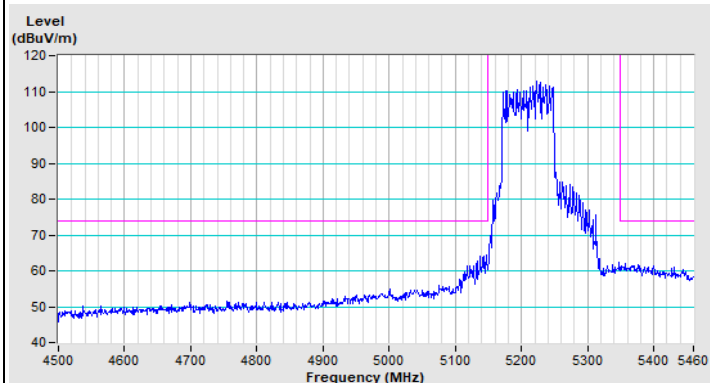


Horizontal (Peak)

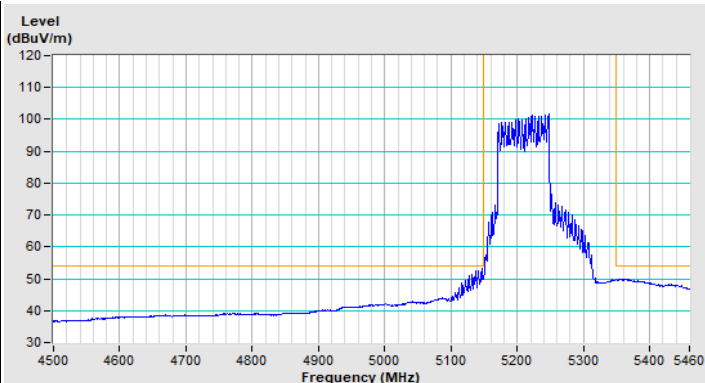


Vertical (Peak)

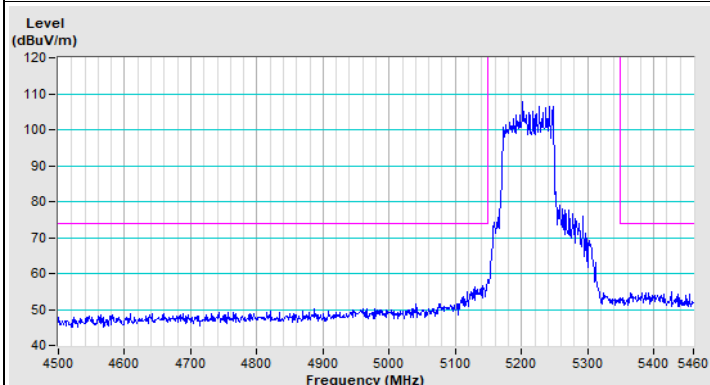
802.11ax (HE80) Channel 42



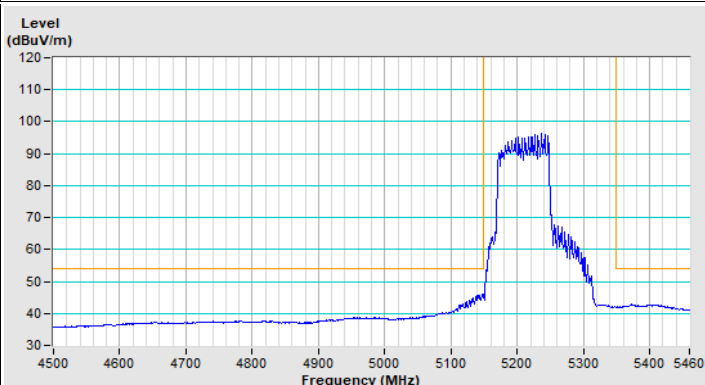
Horizontal (Peak)



Horizontal (Average)

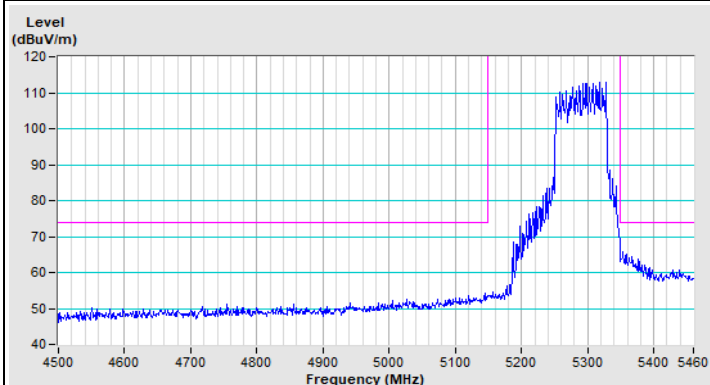


Vertical (Peak)

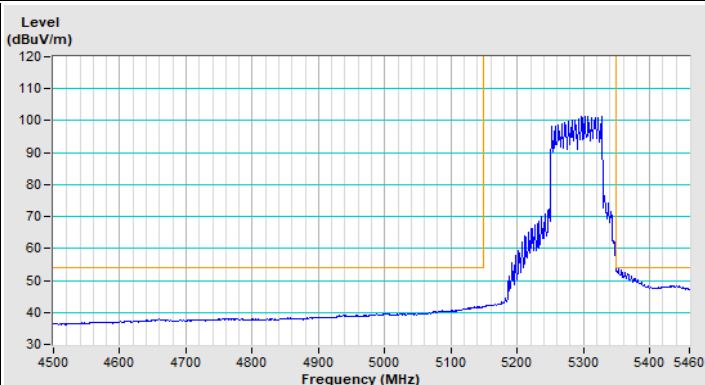


Vertical (Average)

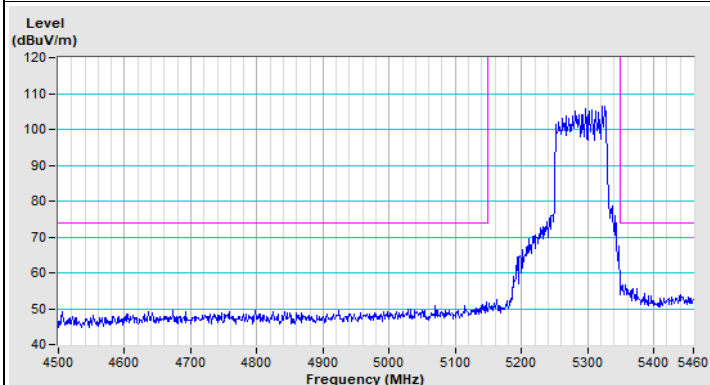
802.11ax (HE80) Channel 58



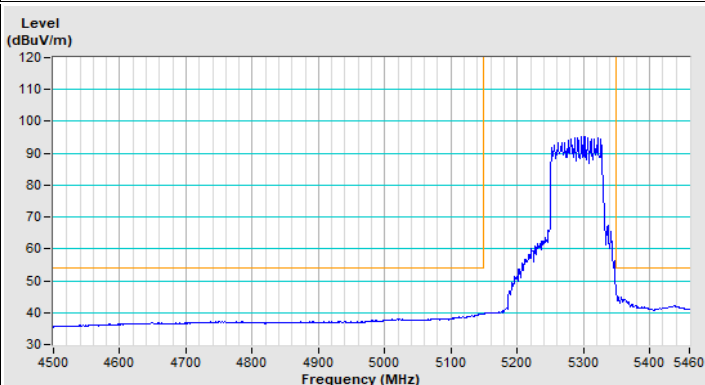
Horizontal (Peak)



Horizontal (Average)

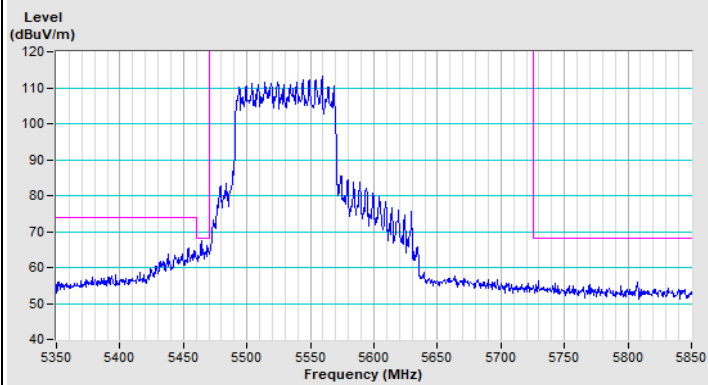


Vertical (Peak)

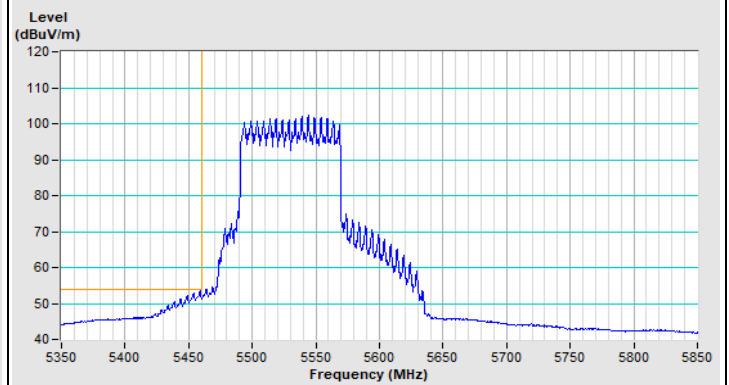


Vertical (Average)

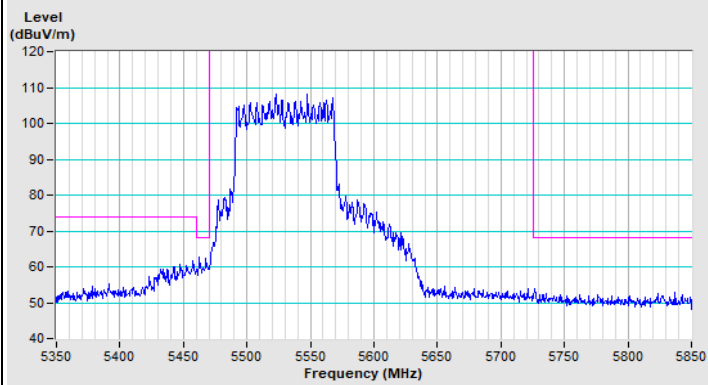
802.11ax (HE80) Channel 106



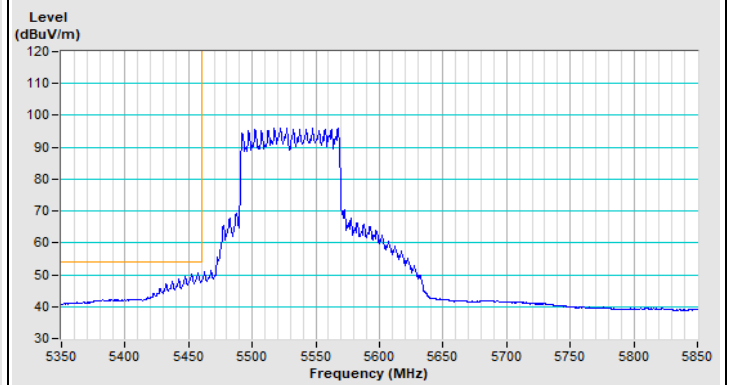
Horizontal (Peak)



Horizontal (Average)

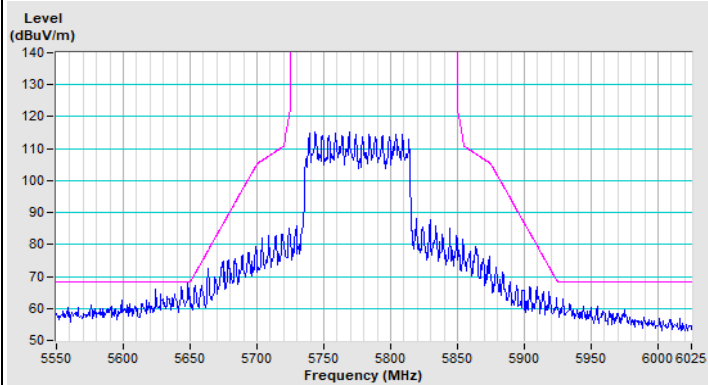


Vertical (Peak)

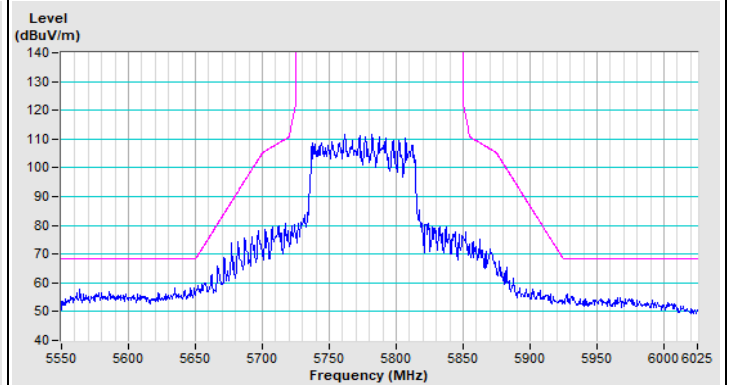


Vertical (Average)

802.11ax (HE80) Channel 155

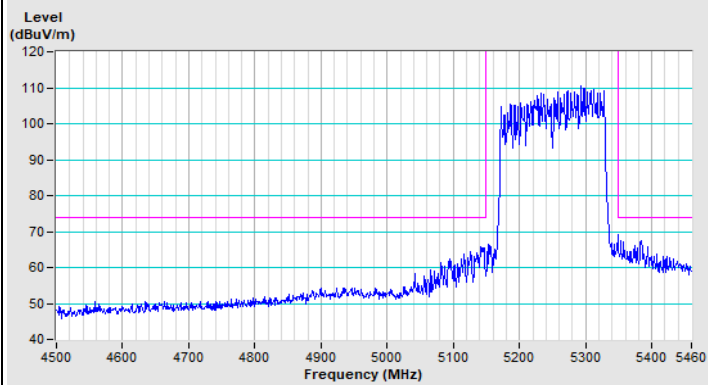


Horizontal (Peak)

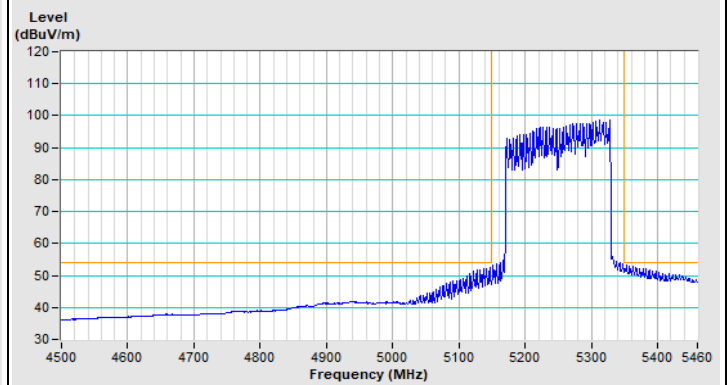


Vertical (Peak)

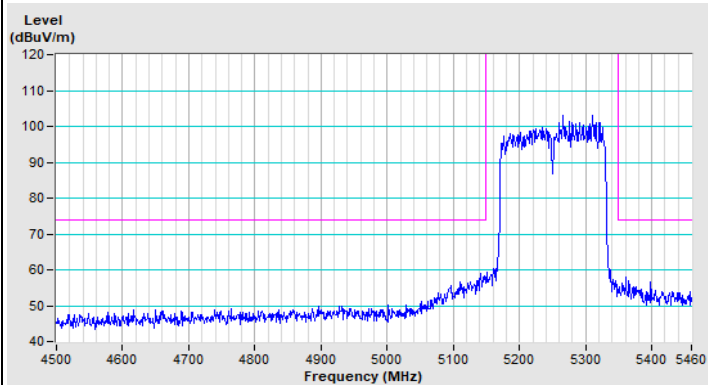
802.11ax (HE160) Channel 50



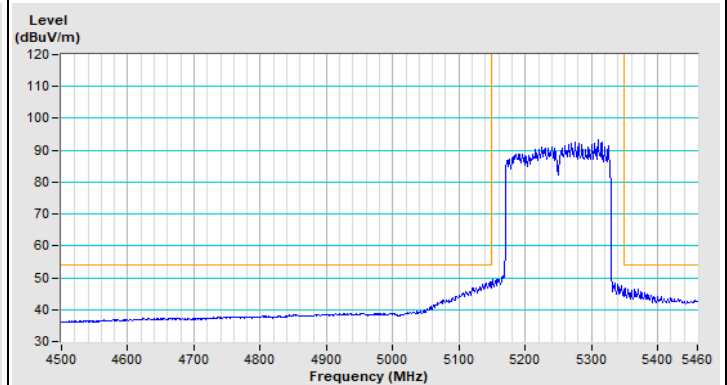
Horizontal (Peak)



Horizontal (Average)

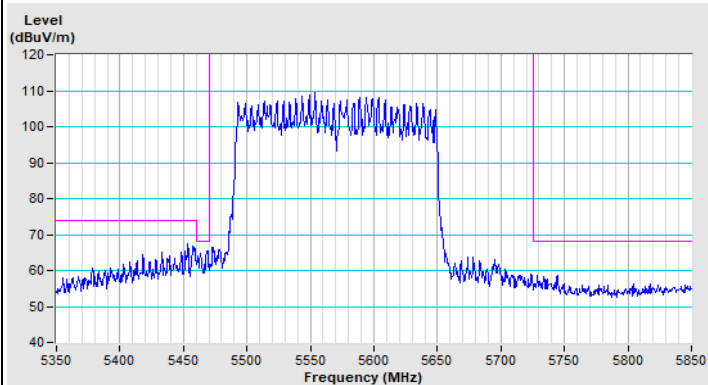


Vertical (Peak)

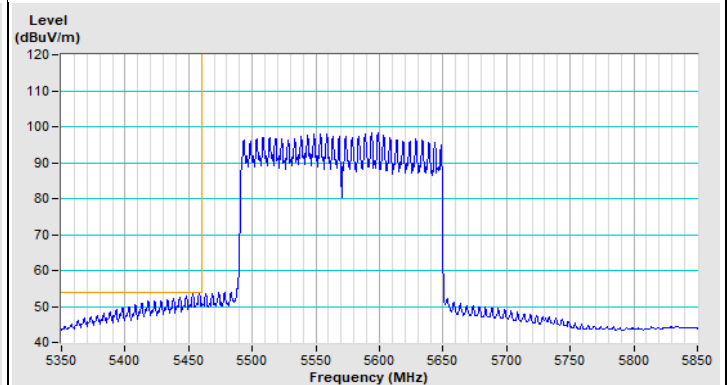


Vertical (Average)

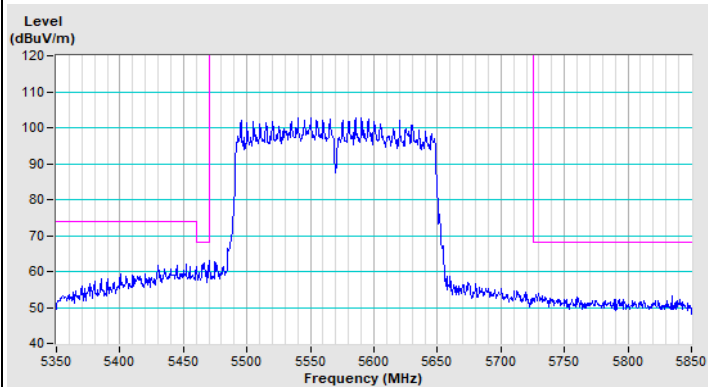
802.11ax (HE160) Channel 114



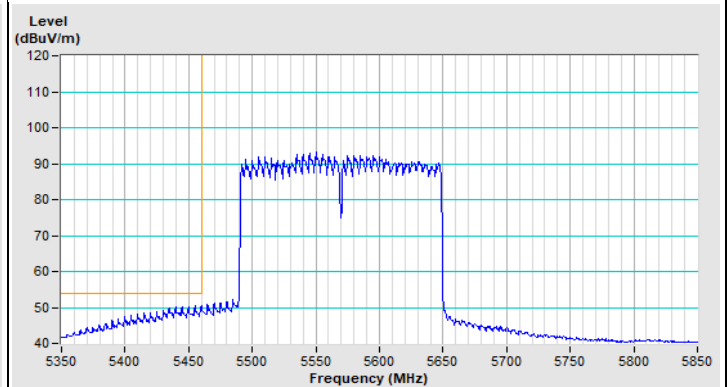
Horizontal (Peak)



Horizontal (Average)



Vertical (Peak)



Vertical (Average)

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

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

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