



FCC RADIO TEST REPORT

FCC ID : UZ7TC530E
Equipment : Touch Computer
Brand Name : Zebra
Model Name : TC530E
Applicant : Zebra Technologies Corporation
1 Zebra Plaza, Holtsville, NY 11742
Manufacturer : Zebra Technologies Corporation
1 Zebra Plaza, Holtsville, NY 11742
Standard : FCC Part 15 Subpart E §15.407

The product was received on Dec. 05, 2023 and testing was performed from Dec. 12, 2023 to Jan. 24, 2024. We, Sporton International Inc. Wensan Laboratory, would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval from Sporton International Inc. Wensan Laboratory, the test report shall not be reproduced except in full.

Louis Wu

Approved by: Louis Wu

Sporton International Inc. Wensan Laboratory

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History of this test report

Report No.	Version	Description	Issue Date
FR3D0601F	01	Initial issue of report	Feb. 07, 2024



Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.1	15.403(i)	6dB & 26dB Bandwidth	Pass	-
3.1	2.1049	99% Occupied Bandwidth	Reporting only	-
3.2	15.407(a)	Maximum Conducted Output Power	Pass	-
3.3	15.407(a)	Power Spectral Density	Pass	-
3.4	15.407(b)	Unwanted Emissions	Pass	1.50 dB under the limit at 5649.05 MHz
3.5	15.207	AC Conducted Emission	Pass	15.78 dB under the limit at 0.29 MHz
3.6	15.203	Antenna Requirement	Pass	-

Conformity Assessment Condition:

1. The test results (PASS/FAIL) with all measurement uncertainty excluded are presented against the regulation limits or in accordance with the requirements stipulated by the applicant/manufacturer who shall bear all the risks of non-compliance that may potentially occur if measurement uncertainty is taken into account.
2. The measurement uncertainty please refer to each test result in the section "Measurement Uncertainty".

Disclaimer:

The product specifications of the EUT presented in the test report that may affect the test assessments are declared by the manufacturer who shall take full responsibility for the authenticity.

Reviewed by: Wei Chen
Report Producer: Lucy Wu



1 General Description

1.1 Product Feature of Equipment Under Test

Product Feature	
Equipment	Touch Computer
Brand Name	Zebra
Model Name	TC530E
FCC ID	UZ7TC530E
Sample 1	SE55 + 8GB (Samsung) 128GB (SK Hynix)
Sample 2	SE55 + 6GB (SK Hynix) 64GB (WD)
Sample 3	SE4720 + 6GB (SK Hynix) 64GB (WD)
EUT supports Radios application	NFC WLAN 11a/b/g/n HT20/HT40 WLAN 11ac VHT20/VHT40/VHT80/VHT160 WLAN 11ax HE20/HE40/HE80/HE160 Bluetooth BR/EDR/LE
HW Version	DV1-1
SW Version	13-11-28.00-TN-U00-PRD-NEM-04
FW Version	FUSION_QA_4_1.2.0.001_R
MFD	13NOV23
EUT Stage	Identical Prototype

Remark: The EUT's information above is declared by manufacturer.

Specification of Accessories				
Adapter	Brand Name	Zebra	Part Number	PWR-WUA5V12W0US
Battery 1 (1x)	Brand Name	Zebra	Part Number	BT-000442-0020
Battery 2 (1.5x)	Brand Name	Zebra	Part Number	BT-000442-0820
Battery 3 (Wireless Battery)	Brand Name	Zebra	Part Number	BT-000442-002B
Battery 4 (1x)	Brand Name	Zebra	Part Number	BT-000442-1020
USB TYPE A to TYPE C cable	Brand Name	Zebra	Part Number	CBL-TC5X-USBC2A-01
USB TYPE C to 3.5mm audio connector	Brand Name	Zebra	Part Number	ADP-USBC-35MM1-01
3.5mm Earphone	Brand Name	Zebra	Part Number	HDST-35MM-PTT1-01
Rugged Headset	Brand Name	Zebra	Part Number	HS2100-OTH
USB TYPE C Earphone	Brand Name	Zebra	Part Number	HPST-USBC-PTT1-01
Trigger Handle	Brand Name	Zebra	Part Number	TRG-NGTC5-ELEC-01
Soft Holster	Brand Name	Zebra	Part Number	SG-NGTC5TC7-HLSTR-01
TC53/TC58 RUGGED BOOT	Brand Name	Zebra	Part Number	SG-NGTC5EXO1-01
3.5mm to 3.5mm audio connector	Brand Name	Zebra	Part Number	CBL-HS2100-3MS1-01

1.2 Product Specification of Equipment Under Test

Product Specification is subject to this standard										
Tx/Rx Frequency Range	5745 MHz ~ 5825 MHz									
Maximum Output Power to Antenna	MIMO <Ant. 6+7> 802.11a: 23.36 dBm / 0.2168 W 802.11n HT20: 22.71 dBm / 0.1866 W 802.11n HT40: 22.66 dBm / 0.1845 W 802.11ac VHT20: 22.81 dBm / 0.1910 W 802.11ac VHT40: 22.76 dBm / .1888 W 802.11ac VHT80: 22.41 dBm / 0.1742 W 802.11ax HE20: 23.01 dBm / 0.2000 W 802.11ax HE40: 22.96 dBm / 0.1977 W 802.11ax HE80: 22.61 dBm / 0.1824 W									
99% Occupied Bandwidth	MIMO <Ant. 6> 802.11a: 16.48 802.11ac VHT20: 17.53 MHz 802.11ac VHT40: 36.16 MHz 802.11ac VHT80: 75.16 MHz 802.11ax HE20: 19.03 MHz 802.11ax HE40: 37.96 MHz 802.11ax HE80: 76.84 MHz MIMO <Ant. 7> 802.11a: 16.33 MHz 802.11ac VHT20: 17.53 MHz 802.11ac VHT40: 36.06 MHz 802.11ac VHT80: 74.93 MHz 802.11ax HE20: 18.88 MHz 802.11ax HE40: 37.86 MHz 802.11ax HE80: 76.84 MHz									
Antenna Type / Gain	<Ant. 6> : PIFA Antenna with gain 3.43 dBi <Ant. 7> : PIFA Antenna with gain 2.52 dBi									
Type of Modulation	802.11a/n: OFDM (BPSK / QPSK / 16QAM / 64QAM) 802.11ac: OFDM (BPSK / QPSK / 16QAM / 64QAM / 256QAM) 802.11ax: OFDMA (BPSK / QPSK / 16QAM / 64QAM / 256QAM / 1024QAM)									
Antenna Function Description	<table border="1"> <thead> <tr> <th></th> <th>Ant. 6</th> <th>Ant. 7</th> </tr> </thead> <tbody> <tr> <td>802.11a/n/ac/ax MIMO</td> <td>√</td> <td>√</td> </tr> <tr> <td>802.11ax TXBF</td> <td>√</td> <td>√</td> </tr> </tbody> </table>		Ant. 6	Ant. 7	802.11a/n/ac/ax MIMO	√	√	802.11ax TXBF	√	√
	Ant. 6	Ant. 7								
802.11a/n/ac/ax MIMO	√	√								
802.11ax TXBF	√	√								

Remark:

1. MIMO Ant. 6+7 Directional Gain is a calculated result from MIMO Ant. 6 and MIMO Ant. 7. The formula used in calculation is documented in section 1.2.1.
2. Power of MIMO Ant. 6 + Ant. 7 is a calculated result from sum of the power MIMO Ant. 6 and MIMO Ant. 7.
3. 802.11ax Support Tx Beamforming mode, and the manufacturer declares that Tx Beamforming power/EIRP is less than CDD mode 3dbm, so CDD mode cover Tx Beamforming mode.
4. The EUT's information above is declared by manufacturer. Please refer to Disclaimer in report summary.

1.2.1 Antenna Directional Gain

<For CDD Mode>

Follows FCC KDB 662911 D01 Multiple Transmitter Output v02r01 F)2)f)ii)

Directional gain = G_{ANT} + Array Gain, where Array Gain is as follows:

For power measurements on IEEE 802.11 devices,

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

G_{ANT} is set equal to the gain of the antenna having the highest gain.

For PSD measurements, the directional gain calculation.

$$DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right]$$

where

Each antenna is driven by no more than one spatial stream;

N_{SS} = the number of independent spatial streams of data;

N_{ANT} = the total number of antennas

$g_{j,k} = 10^{G_k / 20}$ if the k th antenna is being fed by spatial stream j , or zero if it is not;
 G_k is the gain in dBi of the k th antenna.

As minimum $N_{SS}=1$ is supported by EUT, the formula can be simplified as:

$$Directional\ gain = 10 \cdot \log \left[\left(10^{G_1 / 20} + 10^{G_2 / 20} + \dots + 10^{G_N / 20} \right)^2 / N_{ANT} \right] \text{ dBi}$$

Where G_1, G_2, \dots, G_N denote single antenna gain.

The directional gain "DG" is calculated as following table.

			DG	DG	Power	PSD
			for	for	Limit	Limit
	Ant 6	Ant 7	Power	PSD	Reduction	Reduction
	(dBi)	(dBi)	(dBi)	(dBi)	(dB)	(dB)
Band IV	3.43	2.52	3.43	6.00	0.00	0.00

Calculation example:

If a device has two antenna, $G_{ANT1}= 3.43\text{dBi}$; $G_{ANT2}=2.52\text{dBi}$

Directional gain of power measurement = $\max(3.43, 2.52) + 0 = 3.43 \text{ dBi}$

Directional gain of PSD derived from formula which is

$$10 \times \log \left\{ \left[\left(10^{(3.43 \text{ dBi} / 20)} + 10^{(2.52 \text{ dBi} / 20)} \right)^2 \right] / 2 \right\}$$

= 6.00 dBi

Power and PSD limit reduction = Composite gain – 6dBi, (min = 0)

<For TXBF Modes>

The EUT supports beamforming modes , then

Follows FCC KDB 662911 D01 Multiple Transmitter Output v02r01 F)2)e)ii)

$$DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right]$$

where

Each antenna is driven by no more than one spatial stream;

N_{SS} = the number of independent spatial streams of data;

N_{ANT} = the total number of antennas

$g_{j,k} = 10^{G_k / 20}$ if the k th antenna is being fed by spatial stream j , or zero if it is not;
 G_k is the gain in dBi of the k th antenna.

The directional gain “DG” is calculated as following table.

	Ant 6 (dBi)	Ant 7 (dBi)	DG for Power (dBi)	DG for PSD (dBi)	Power Limit Reduction (dB)	PSD Limit Reduction (dB)
Band IV	3.43	2.52	6.00	6.00	0.00	0.00

Calculation example:

Directional gain of PSD derived from formula which is

$$10 \times \log \left\{ \left[10^{(3.43 \text{ dBi} / 20)} + 10^{(2.52 \text{ dBi} / 20)} \right]^2 / 2 \right\}$$

= 6.00 dBi

Power and PSD limit reduction = Composite gain – 6dBi, (min = 0)



1.3 Modification of EUT

No modifications made to the EUT during the testing.

1.4 Testing Location

Test Site	Sporton International Inc. EMC & Wireless Communications Laboratory
Test Site Location	No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.) TEL: +886-3-327-3456 FAX: +886-3-328-4978
Test Site No.	Sporton Site No. CO05-HY (TAF Code: 1190)
Remark	The AC Conducted Emission test item subcontracted to Sporton International Inc. EMC & Wireless Communications Laboratory.

Note: The test site complies with ANSI C63.4 2014 requirement.

Test Site	Sporton International Inc. Wensan Laboratory
Test Site Location	No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.) TEL: +886-3-327-0868 FAX: +886-3-327-0855
Test Site No.	Sporton Site No. TH05-HY, 03CH20-HY

Note: The test site complies with ANSI C63.4 2014 requirement.

FCC designation No.: TW1190 and TW3786

1.5 Applicable Standards

According to the specifications declared by the manufacturer, the EUT must comply with the requirements of the following standards:

- ♦ FCC Part 15 Subpart E
- ♦ FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.
- ♦ FCC KDB 414788 D01 Radiated Test Site v01r01.
- ♦ FCC KDB 662911 D01 Multiple Transmitter Output v02r01.
- ♦ ANSI C63.10-2013

Remark:

1. All the test items were validated and recorded in accordance with the standards without any modification during the testing.
2. The TAF code is not including all the FCC KDB listed without accreditation.
3. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.



2 Test Configuration of Equipment Under Test

- a. The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application. Frequency range investigated: conduction emission (150 kHz to 30 MHz), radiation emission (9 kHz to the 10th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower). For radiated measurement, the measured emission level of the EUT was maximized by rotating the EUT on a turntable, adjusting the orientation of the EUT and EUT antenna in three orthogonal axis (X: flat, Y: portrait, Z: landscape) and Accessory (Adapter or Earphone), and adjusting the measurement antenna orientation, following C63.10 exploratory test procedures and only the worst case emissions were reported in this report.

- b. AC power line Conducted Emission was tested under maximum output power.

2.1 Carrier Frequency and Channel

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
5725-5850 MHz Band 4 (U-NII-3)	149	5745	157	5785
	151*	5755	159*	5795
	153	5765	161	5805
	155#	5775	165	5825

Note:

- 1. The above Frequency and Channel with "*" are 802.11n HT40 and 802.11ac VHT40 and 802.11ax HE40.
- 2. The above Frequency and Channel with "#" are 802.11ac VHT80 and 802.11ax HE80.



2.2 Test Mode

This device support 26/52/106/242/484/996-tone RU.

The PSD of partial RU is reduced to be smaller than full RU according to TCB workshop interim guidance Oct. 2018.

The 802.11ax mode is investigated among different tones, full resource units (RU), partial resource units. The partial RU has no higher power than full RU's, thus the full RU is chosen as main test configuration.

The 242-tone RU is covered by 20MHz channel, 484-tone RU is covered by 40MHz channel and 996-tone RU is covered by 80MHz channel.

The SISO mode conducted power is covered by MIMO mode per chain, so only the MIMO mode is tested.

The power for 802.11n mode is smaller than 802.11ac mode, so all other conducted and radiated test is covered by 802.11ac mode.

The final test modes include the worst data rates for each modulation shown in the table below.

MIMO Mode

Modulation	Data Rate
802.11a	6 Mbps
802.11n HT20 (Covered by VHT20)	MCS0
802.11n HT40 (Covered by VHT40)	MCS0
802.11ac VHT20	MCS0
802.11ac VHT40	MCS0
802.11ac VHT80	MCS0
802.11ax HE20	MCS0
802.11ax HE40	MCS0
802.11ax HE80	MCS0

Remark: The conducted power level of each chain in MIMO mode is equal or higher than SISO mode.

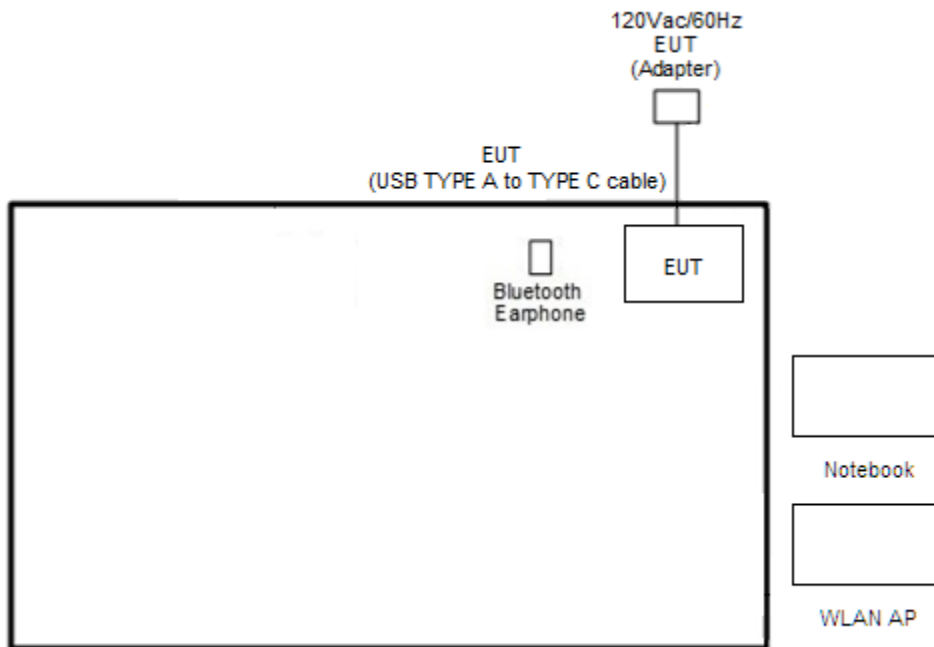
Test Cases	
AC Conducted Emission	Mode 1 : WLAN (5GHz) Link + Bluetooth Link + USB TYPE A to TYPE C cable (Charging from Adapter) + Battery 2 (1.5x) for Sample 1
Remark: For Radiated Test Cases, the tests were performed with Battery 1 (1x) and Sample 1.	

Ch. #		Band IV : 5725-5850 MHz			
		802.11a	802.11ax HE20	802.11ax HE40	802.11ax HE80
L	Low	149	149	151	-
M	Middle	157	157	-	155
H	High	165	165	159	-

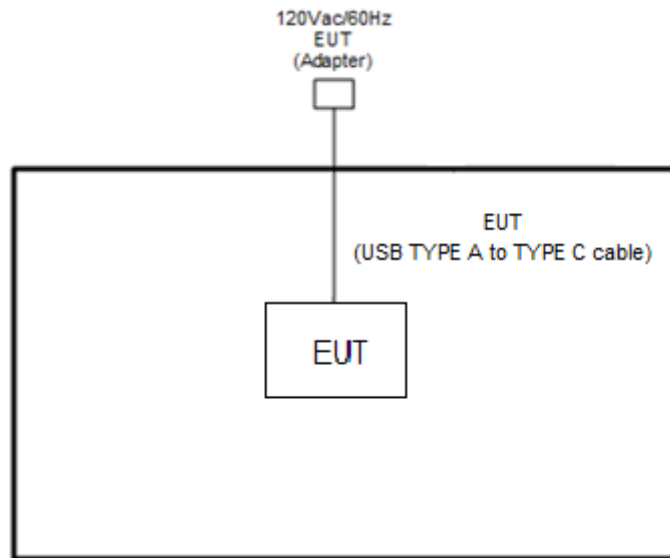
Remark: For radiation spurious emission, the modulation and the data rate picked for testing are determined by the Max. RF conducted power.

2.3 Connection Diagram of Test System

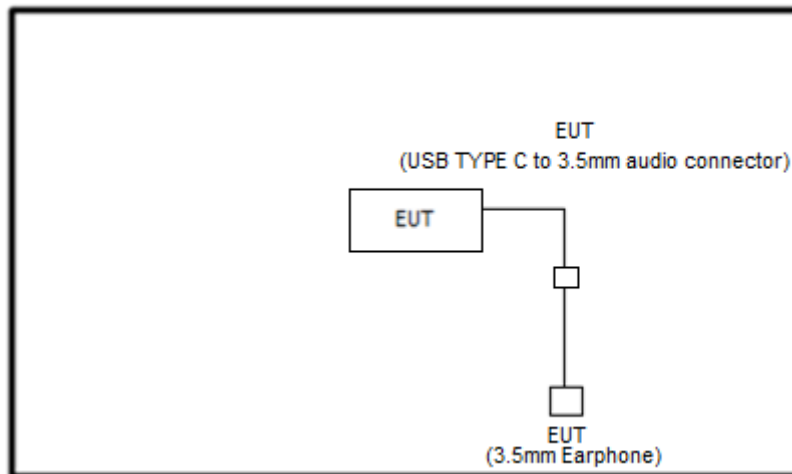
<AC Conducted Emission Mode>



<WLAN Tx with Adapter Mode>



<WLAN Tx with Earphone Mode>





2.4 Support Unit used in test configuration and system

Item	Equipment	Brand Name	Model Name	FCC ID	Data Cable	Power Cord
1.	Bluetooth Earphone	Sony Ericsson	MW600	PY7DDA-2029	N/A	N/A
2.	WLAN AP	ASUS	RT-AC66U	MSQ-RTAC66U	N/A	Unshielded, 1.8 m
3.	Notebook	DELL	Latitude 3420	FCC DoC	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
4.	Notebook	DELL	Latitude5310	FCC DoC	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
5.	SD Card	SanDisk	MicroSD HC	FCC DoC	N/A	N/A

2.5 EUT Operation Test Setup

The RF test items, utility “QRCT Version 4.0.00206.0” was installed in Notebook which was programmed in order to make the EUT get into the engineering modes to provide channel selection, power level, data rate and the application type and for continuous transmitting signals.

2.6 Measurement Results Explanation Example

For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuator factor between EUT conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly the EUT RF output level.

Example :

The spectrum analyzer offset is derived from RF cable loss and attenuator factor.

Offset = RF cable loss + attenuator factor.

Following shows an offset computation example with cable loss 4.2 dB and 10 dB attenuator.

$$\begin{aligned} \text{Offset(dB)} &= \text{RF cable loss(dB)} + \text{attenuator factor(dB)}. \\ &= 4.2 + 10 = 14.2 \text{ (dB)} \end{aligned}$$

3 Test Result

3.1 6dB and 26dB and 99% Occupied Bandwidth Measurement

3.1.1 Description of 6dB and 26dB and 99% Occupied Bandwidth

The minimum 6 dB bandwidth shall be at least 500 kHz.

26dB and 99% Occupied bandwidth are reporting only.

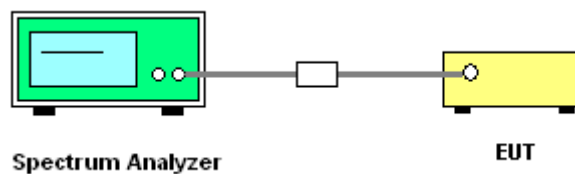
3.1.2 Measuring Instruments

Please refer to the measuring equipment list in this test report.

3.1.3 Test Procedures

1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01. Section C) Emission bandwidth for the band 5.725-5.85 GHz
2. Set RBW = 100 kHz.
3. Set the VBW $\geq 3 \times$ RBW.
4. Detector = Peak.
5. Trace mode = max hold
6. Measure the maximum width of the emission that is 6 dB down from the peak of the emission.
7. Measure and record the results in the test report.

3.1.4 Test Setup



3.1.5 Test Result of 6dB and 26dB and 99% Occupied Bandwidth

Please refer to Appendix A.

3.2 Maximum Conducted Output Power Measurement

3.2.1 Limit of Maximum Conducted Output Power

For the band 5.725–5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W.

If transmitting antennas of directional gain greater than 6 dBi are used, the peak output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

3.2.2 Measuring Instruments

Please refer to the measuring equipment list in this test report.

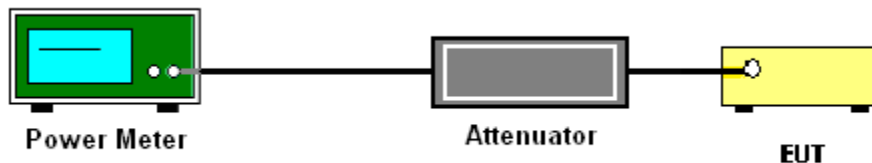
3.2.3 Test Procedures

The testing follows Method PM-G of FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.

Method PM-G (Measurement using a gated RF average power meter):

1. Measurement is performed using a wideband RF power meter.
2. The EUT is configured to transmit at its maximum power control level.
3. Measure the average power of the transmitter.
4. Since the measurement is made only during the ON time of the transmitter, no duty cycle correction factor is required.
5. For MIMO mode, calculation method follows FCC KDB 662911 D01 Multiple Transmitter Output v02r01

3.2.4 Test Setup



3.2.5 Test Result of Maximum Conducted Output Power

Please refer to Appendix A.



3.3 Power Spectral Density Measurement

3.3.1 Limit of Power Spectral Density

For the band 5.725–5.85 GHz, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band.

If transmitting antennas of directional gain greater than 6 dBi are used, the peak output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

3.3.2 Measuring Instruments

Please refer to the measuring equipment list in this test report.

3.3.3 Test Procedures

The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01. Section F) Maximum power spectral density.

Method SA-2

(trace averaging across on and off times of the EUT transmissions, followed by duty cycle correction).

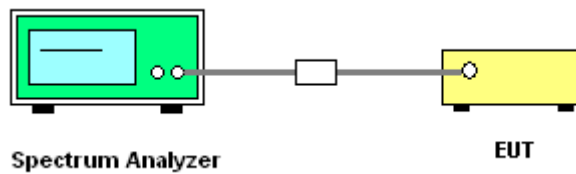
- Measure the duty cycle.
 - Set span to encompass the entire emission bandwidth (EBW) of the signal.
 - Set RBW = 300kHz.
 - Set VBW \geq 1 MHz.
 - Add $10 \log(500 \text{ kHz/RBW})$ to the measured result, whereas RBW ($<500 \text{ kHz}$) is the reduced resolution bandwidth of the spectrum analyzer set during measurement
 - Number of points in sweep $\geq 2 \text{ Span} / \text{RBW}$.
 - Sweep time = auto.
 - Detector = RMS
 - Trace average at least 100 traces in power averaging mode.
 - Add $10 \log(1/x)$, where x is the duty cycle, to the measured power in order to compute the average power during the actual transmission times. For example, add $10 \log(1/0.25) = 6 \text{ dB}$ if the duty cycle is 25 percent.
1. The RF output of EUT is connected to the spectrum analyzer by a low loss cable.
 2. Each plot has already offset with cable loss, and attenuator loss. Measure the PPSD and record it.

3. For MIMO mode, calculation method follows FCC KDB 662911 D01 Multiple Transmitter Output v02r01.

Method (c): Measure and add $10 \log(N_{ANT})$ dB.

With this technique, spectrum measurements are performed at each output of the device, but rather than summing the spectra or the spectral peaks across the outputs, the quantity $10 \log(N_{ANT})$ dB is added to each spectrum value before comparing to the emission limit. The addition of $10 \log(N_{ANT})$ dB serves to apportion the emission limit among the N_{ANT} outputs so that each output is permitted to contribute no more than $1/N_{ANT}^{th}$ of the PSD limit.

3.3.4 Test Setup



3.3.5 Test Result of Power Spectral Density

Please refer to Appendix A.



3.4 Unwanted Emissions Measurement

This section is to measure unwanted emissions through radiated measurement for band edge spurious emissions and out of band emissions measurement.

3.4.1 Limit of Unwanted Emissions

(1) For transmitters operating in the 5.725-5.85 GHz band:

15.407(b)(4)(i) All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

(2) Unwanted spurious emissions falls in restricted bands shall comply with the general field strength limits as below table,

Frequency (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

Note: The following formula is used to convert the EIRP to field strength.

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

EIRP (dBm)	Field Strength at 3m (dBμV/m)
- 27	68.3

(3) KDB789033 D02 v02r01 G)2)c)

(i) Sections 15.407(b)(1-3) specifies the unwanted emissions limit for the U-NII-1 and U-NII-2 bands. As specified, emissions above 1000 MHz that are outside of the restricted bands are subject to a peak emission limit of -27 dBm/MHz.

(ii) Section 15.407(b)(4) specifies the unwanted emissions limit for the U-NII-3 band. A band emissions mask is specified in Section 15.407(b)(4)(i). The emission limits are based on the use of a peak detector.



3.4.2 Measuring Instruments

Please refer to the measuring equipment list in this test report.

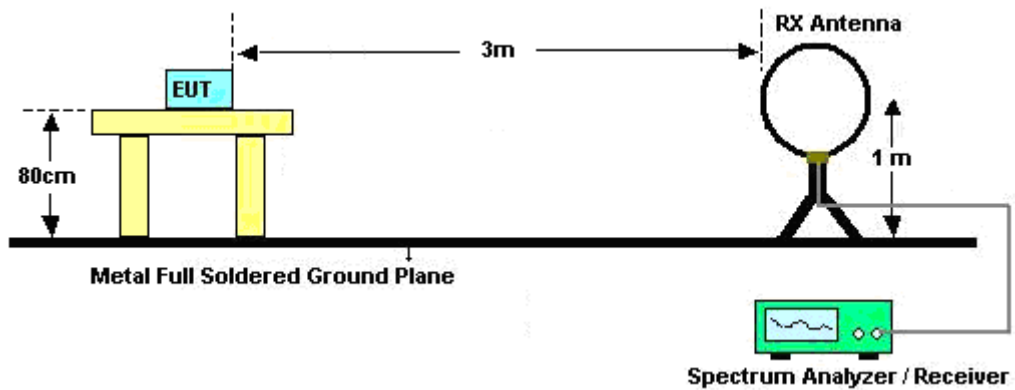
3.4.3 Test Procedures

1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01. Section G) Unwanted emissions measurement.
 - (1) Procedure for Unwanted Emissions Measurements Below 1000 MHz
 - RBW = 120 kHz
 - VBW = 300 kHz
 - Detector = Peak
 - Trace mode = max hold
 - (2) Procedure for Peak Unwanted Emissions Measurements Above 1000 MHz
 - RBW = 1 MHz
 - VBW \geq 3 MHz
 - Detector = Peak
 - Sweep time = auto
 - Trace mode = max hold
 - (3) Procedures for Average Unwanted Emissions Measurements Above 1000 MHz
 - RBW = 1 MHz
 - VBW = 10 Hz, when duty cycle is no less than 98 percent.
 - VBW \geq 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.
2. The EUT is placed on a turntable with 0.8 meter for frequency below 1 GHz and 1.5 meter for frequency above 1 GHz respectively above ground.
3. The EUT is set 3 meters away from the receiving antenna which is mounted on the top of a variable height antenna tower.
4. The antenna is a broadband antenna and its height is adjusted between one meter and four meters above ground to find the maximum value of the field strength for both horizontal polarization and vertical polarization of the antenna.
5. For each suspected emission, the EUT is arranged to its worst case and then adjust the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading.

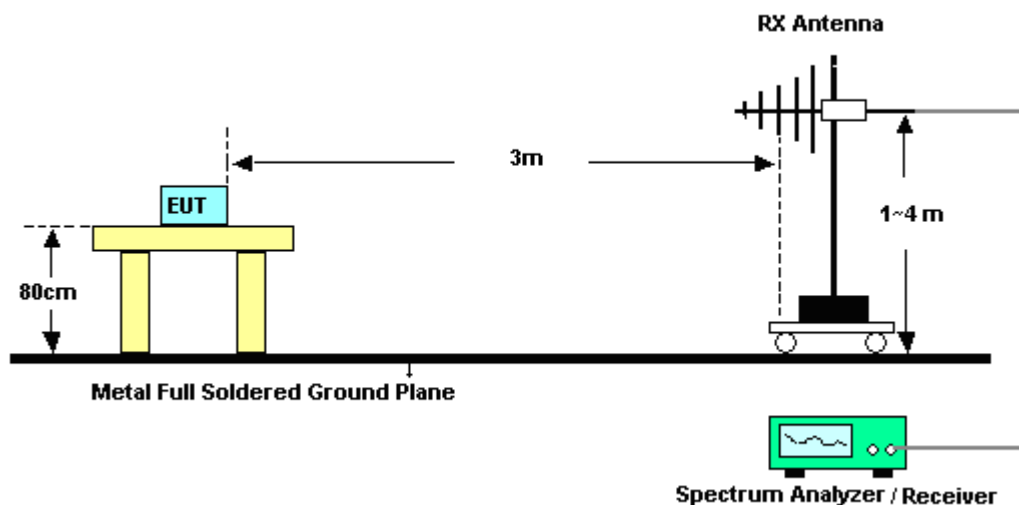
6. Radiated testing below 1 GHz is performed by adjusting the antenna tower from 1 m to 4 m and by rotating the turn table from 0 degree to 360 degrees to find the peak maximum hold reading. When there is no suspected emission found and the emission level is with at least 6 dB margin against QP limit line, the position is marked as “-“.
7. Radiated testing above 1 GHz is performed by adjusting the antenna tower from 1 m to 4 m and by rotating the turn table from 0 degree to 360 degrees to find the peak maximum hold reading for scanning all frequencies. When there is no suspected emission found and the harmonic emission level is with at least 6 dB margin against average limit line, the position is marked as “-“.

3.4.4 Test Setup

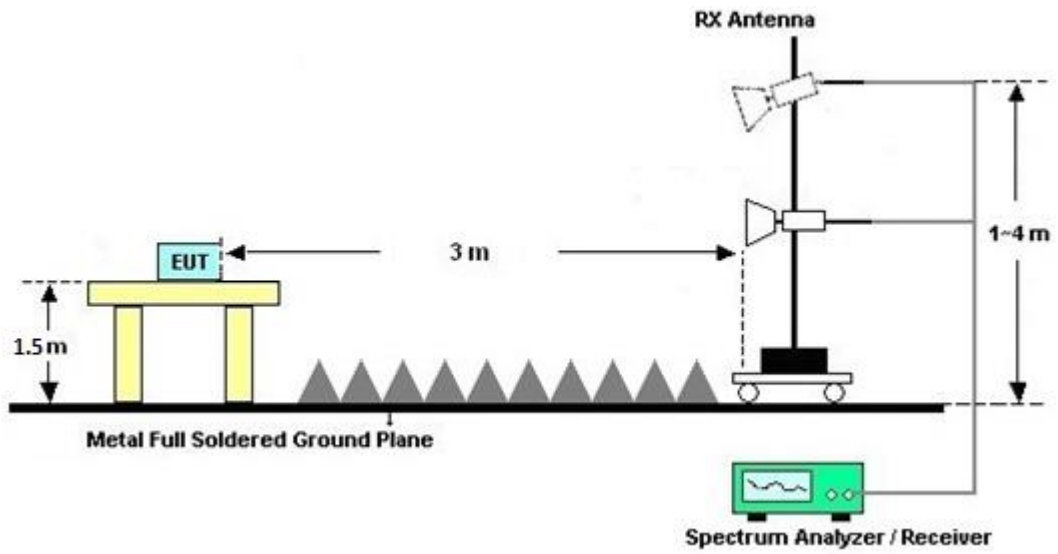
For radiated emissions below 30MHz



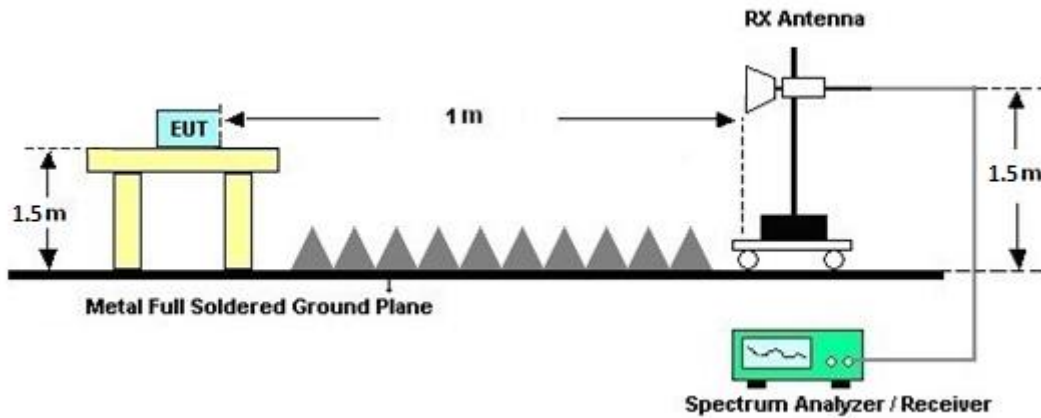
For radiated emissions from 30MHz to 1GHz



For radiated test from 1GHz to 18GHz



For radiated test above 18GHz





3.4.5 Test Results of Radiated Emissions (9 kHz ~ 30 MHz)

The low frequency, which starts from 9 kHz to 30 MHz, is pre-scanned and the result which is 20 dB lower than the limit line is not reported.

There is adequate comparison measurement of both open-field test site and alternative test site - semi-Anechoic chamber according to 414788 D01 Radiated Test Site v01r01, and the result came out very similar.

3.4.6 Test Result of Radiated Band Edges

Please refer to Appendix C and D.

3.4.7 Duty Cycle

Please refer to Appendix E.

3.4.8 Test Result of Unwanted Radiated Emission (30MHz ~ 10th Harmonic)

Please refer to Appendix C and D.



3.5 AC Conducted Emission Measurement

3.5.1 Limit of AC Conducted Emission

For equipment that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table.

Frequency of emission (MHz)	Conducted limit (dB μ V)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

*Decreases with the logarithm of the frequency.

3.5.2 Measuring Instruments

Please refer to the measuring equipment list in this test report.

3.5.3 Test Procedures

1. The EUT is placed 0.4 meter away from the conducting wall of the shielding room, and is kept at least 80 centimeters from any other grounded conducting surface.
2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
3. All the support units are connecting to the other LISN.
4. The LISN provides 50 ohm coupling impedance for the measuring instrument.
5. The FCC states that a 50 ohm, 50 microhenry LISN shall be used.
6. Both Line and Neutral shall be tested in order to find out the maximum conducted emission.
7. The frequency range from 150 kHz to 30 MHz is scanned.
8. Set the test-receiver system to Peak Detect Function and specified bandwidth with Maximum Hold Mode.

3.5.4 Test Setup



3.5.5 Test Result of AC Conducted Emission

Please refer to Appendix B.



3.6 Antenna Requirements

3.6.1 Standard Applicable

The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the rule.

3.6.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.



4 List of Measuring Equipment

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
EMI Test Receiver	Keysight	N9038A(MXE)	MY54130085	N/A	Oct. 06, 2023	Jan. 12, 2024~ Jan. 24, 2024	Oct. 05, 2024	Radiation (03CH20-HY)
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100488	9 kHz~30 MHz	Sep. 12, 2023	Jan. 12, 2024~ Jan. 24, 2024	Sep. 11, 2024	Radiation (03CH20-HY)
Preamplifier	EMEC	EM18G40G	060873	18GHz~40GHz	Sep. 06, 2023	Jan. 12, 2024~ Jan. 24, 2024	Sep. 05, 2024	Radiation (03CH20-HY)
Controller	ChainTek	3000-1	N/A	Control Turn table & Ant Mast	N/A	Jan. 12, 2024~ Jan. 24, 2024	N/A	Radiation (03CH20-HY)
Antenna Mast	ChainTek	MBS-520-1	N/A	1m~4m	N/A	Jan. 12, 2024~ Jan. 24, 2024	N/A	Radiation (03CH20-HY)
Turn Table	ChainTek	T-200-S-1	N/A	0~360 Degree	N/A	Jan. 12, 2024~ Jan. 24, 2024	N/A	Radiation (03CH20-HY)
Signal Analyzer	Keysight	N9010B	MY60240520	N/A	Dec. 12, 2023	Jan. 12, 2024~ Jan. 24, 2024	Dec. 11, 2024	Radiation (03CH20-HY)
Bilog Antenna	TESEQ	CBL 6111D&00802N 1D01N-06	55606 & 08	30MHz~1GHz	Oct. 20, 2023	Jan. 12, 2024~ Jan. 24, 2024	Oct. 19, 2024	Radiation (03CH20-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	02360	1GHz-18GHz	Oct. 30, 2023	Jan. 12, 2024~ Jan. 24, 2024	Oct. 29, 2024	Radiation (03CH20-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	1224	18GHz-40GHz	Jul. 10, 2023	Jan. 12, 2024~ Jan. 24, 2024	Jul. 09, 2024	Radiation (03CH20-HY)
Preamplifier	COM-POWER	PAM-103	18020201	1MHz-1000MHz	Jan. 01, 2024	Jan. 12, 2024~ Jan. 24, 2024	Dec. 31, 2024	Radiation (03CH20-HY)
Amplifier	EMCI	EMC118A45SE	980792	N/A	Nov. 13, 2023	Jan. 12, 2024~ Jan. 24, 2024	Nov. 12, 2024	Radiation (03CH20-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	519229/2,8040 15/2,804027/2	N/A	Jan. 18, 2023	Jan. 12, 2024~ Jan. 16, 2024	Jan. 17, 2024	Radiation (03CH20-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	519229/2,8040 15/2,804027/2	N/A	Jan. 17, 2024	Jan. 17, 2024~ Jan. 24, 2024	Jan. 16, 2025	Radiation (03CH20-HY)
Hygrometer	TECPEL	DTM-303B	TP200728	N/A	Mar. 28, 2023	Jan. 12, 2024~ Jan. 24, 2024	Mar. 27, 2024	Radiation (03CH20-HY)
Software	Audix	N/A	RK-002156	N/A	N/A	Jan. 12, 2024~ Jan. 24, 2024	N/A	Radiation (03CH20-HY)
Hygrometer	TECPEL	DTM-303A	TP201996	N/A	Nov. 07, 2023	Dec. 12, 2023~ Jan. 18, 2024	Nov. 06, 2024	Conducted (TH05-HY)
Power Sensor	DARE	RPR3006W	15100041SNO 10 (NO:248)	10MHz~6GHz	Jan. 05, 2023	Dec. 12, 2023~ Dec. 29, 2023	Jan. 04, 2024	Conducted (TH05-HY)
Power Sensor	DARE	RPR3006W	16100054SNO 12 (NO:113)	10MHz~6GHz	Dec. 12, 2023	Jan. 02, 2024~ Jan. 18, 2024	Dec. 11, 2024	Conducted (TH05-HY)
Signal Analyzer	Rohde & Schwarz	FSV40	101566	10Hz~40GHz	Aug. 23, 2023	Dec. 12, 2023~ Jan. 18, 2024	Aug. 22, 2024	Conducted (TH05-HY)
AC Power Source	ChainTek	APC-1000W	N/A	N/A	N/A	Dec. 28, 2023	N/A	Conduction (CO05-HY)
EMI Test Receiver	Rohde & Schwarz	ESR3	102388	9kHz~3.6GHz	Dec. 06, 2023	Dec. 28, 2023	Dec. 05, 2024	Conduction (CO05-HY)
Hygrometer	Testo	608-H1	34913912	N/A	Oct. 26, 2023	Dec. 28, 2023	Oct. 25, 2024	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100081	9kHz~30MHz	Nov. 22, 2023	Dec. 28, 2023	Nov. 21, 2024	Conduction (CO05-HY)
Software	Rohde & Schwarz	EMC32	N/A	N/A	N/A	Dec. 28, 2023	N/A	Conduction (CO05-HY)
ISN Cable	MVE	RG-400	200260	N/A	Dec. 28, 2023	Dec. 28, 2023	Dec. 27, 2024	Conduction (CO05-HY)
Pulse Limiter	SCHWARZBECK	VTSD 9561-F N	00691	9kHz-200MHz	Jul. 28, 2023	Dec. 28, 2023	Jul. 27, 2024	Conduction (CO05-HY)
LISN Cable	MVE	RG-400	260260	N/A	Dec. 28, 2023	Dec. 28, 2023	Dec. 27, 2024	Conduction (CO05-HY)



5 Measurement Uncertainty

Uncertainty of Conducted Emission Measurement (150kHz ~ 30MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	3.5 dB
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Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	6.4 dB
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Uncertainty of Radiated Emission Measurement (1000 MHz ~ 6000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.5 dB
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Uncertainty of Radiated Emission Measurement (6000 MHz ~ 18000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.6 dB
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Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.4 dB
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Appendix A. Test Result of Conducted Test Items

Test Engineer:	Sylvia Li and Willy Chang	Temperature:	21~25	°C
Test Date:	2023/12/12~2024/1/18	Relative Humidity:	51~54	%

TEST RESULTS DATA
6dB and 26dB EBW and 99% OBW

U-NII-3 MIMO												
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Bandwidth (MHz)		26dB Bandwidth (MHz)		6 dB Bandwidth (MHz)		6 dB Bandwidth Min. Limit (MHz)	Pass/Fail
					Ant 6	Ant 7	Ant 6	Ant 7	Ant 6	Ant 7		
11a	6Mbps	2	149	5745	16.38	16.33	20.02	19.31	15.09	15.03	0.5	Pass
11a	6Mbps	2	157	5785	16.48	16.33	20.57	19.34	14.91	15.09	0.5	Pass
11a	6Mbps	2	165	5825	16.43	16.33	20.18	19.22	15.29	15.09	0.5	Pass
VHT20	MCS0	2	149	5745	17.53	17.53	20.72	20.14	15.00	16.54	0.5	Pass
VHT20	MCS0	2	157	5785	17.48	17.48	20.78	20.29	16.55	17.12	0.5	Pass
VHT20	MCS0	2	165	5825	17.53	17.53	20.81	20.68	15.42	15.04	0.5	Pass
VHT40	MCS0	2	151	5755	36.16	36.06	40.98	40.70	33.48	35.12	0.5	Pass
VHT40	MCS0	2	159	5795	35.96	36.06	40.80	40.58	33.84	34.70	0.5	Pass
VHT80	MCS0	2	155	5775	75.16	74.93	81.41	81.47	70.08	68.83	0.5	Pass

TEST RESULTS DATA
Average Power Table

U-NII-3 MIMO												
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		Pass/Fail
					Ant 6	Ant 7	SUM	Ant 6	Ant 7	Ant 6	Ant 7	
11a	6Mbps	2	149	5745	20.00	20.10	23.06	30.00		3.43	Pass	
11a	6Mbps	2	157	5785	20.20	20.40	23.31	30.00		3.43	Pass	
11a	6Mbps	2	165	5825	20.20	20.50	23.36	30.00		3.43	Pass	
HT20	MCS0	2	149	5745	19.60	19.70	22.66	30.00		3.43	Pass	
HT20	MCS0	2	157	5785	19.50	19.60	22.56	30.00		3.43	Pass	
HT20	MCS0	2	165	5825	19.50	19.90	22.71	30.00		3.43	Pass	
HT40	MCS0	2	151	5755	19.40	19.60	22.51	30.00		3.43	Pass	
HT40	MCS0	2	159	5795	19.70	19.60	22.66	30.00		3.43	Pass	
VHT20	MCS0	2	149	5745	19.70	19.80	22.76	30.00		3.43	Pass	
VHT20	MCS0	2	157	5785	19.60	19.70	22.66	30.00		3.43	Pass	
VHT20	MCS0	2	165	5825	19.60	20.00	22.81	30.00		3.43	Pass	
VHT40	MCS0	2	151	5755	19.50	19.70	22.61	30.00		3.43	Pass	
VHT40	MCS0	2	159	5795	19.80	19.70	22.76	30.00		3.43	Pass	
VHT80	MCS0	2	155	5775	19.30	19.50	22.41	30.00		3.43	Pass	

TEST RESULTS DATA
Power Spectral Density

U-NII-3 MIMO																
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)		10log (500kHz /RBW) Factor (dB)		Average Power Density with Duty Factor (dBm/500kHz)			Average PSD Limit (dBm/500kHz)		DG (dBi)		Pass /Fail
					Ant 6	Ant 7	Ant 6	Ant 7	Ant 6	Ant 7	SUM	Ant 6	Ant 7	Ant 6	Ant 7	
11a	6Mbps	2	149	5745	0.66	0.66	2.22	7.18	7.06	10.19	30.00	6.00	6.00	6.00	Pass	
11a	6Mbps	2	157	5785	0.66	0.66	2.22	7.28	7.46	10.47	30.00	6.00	6.00	6.00	Pass	
11a	6Mbps	2	165	5825	0.66	0.66	2.22	7.33	7.65	10.66	30.00	6.00	6.00	6.00	Pass	
VHT20	MCS0	2	149	5745	0.67	0.65	2.22	6.81	6.48	9.82	30.00	6.00	6.00	6.00	Pass	
VHT20	MCS0	2	157	5785	0.67	0.65	2.22	6.47	5.63	9.48	30.00	6.00	6.00	6.00	Pass	
VHT20	MCS0	2	165	5825	0.67	0.65	2.22	6.53	6.43	9.54	30.00	6.00	6.00	6.00	Pass	
VHT40	MCS0	2	151	5755	0.66	0.66	2.22	4.26	4.27	7.28	30.00	6.00	6.00	6.00	Pass	
VHT40	MCS0	2	159	5795	0.66	0.66	2.22	3.98	3.52	6.99	30.00	6.00	6.00	6.00	Pass	
VHT80	MCS0	2	155	5775	0.67	0.67	2.22	0.96	0.47	3.97	30.00	6.00	6.00	6.00	Pass	

Note: PSD Sum = Max PSD(Ant. 6, Ant. 7) + 10 log (n)

TEST RESULTS DATA
6dB and 26dB EBW and 99% OBW

U-NII-3 MIMO													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	99% Bandwidth (MHz)		26dB Bandwidth (MHz)		6 dB Bandwidth (MHz)		6 dB Bandwidth Min. Limit (MHz)	Pass/Fail
						Ant 6	Ant 7	Ant 6	Ant 7	Ant 6	Ant 7		
HE20	MCS0	2	149	5745	Full	18.98	18.88	24.08	21.37	16.55	16.38	0.5	Pass
HE20	MCS0	2	157	5785	Full	19.03	18.88	26.95	20.99	18.69	17.69	0.5	Pass
HE20	MCS0	2	165	5825	Full	19.03	18.88	25.10	21.02	18.17	15.90	0.5	Pass
HE40	MCS0	2	151	5755	Full	37.96	37.86	41.18	41.12	35.12	35.98	0.5	Pass
HE40	MCS0	2	159	5795	Full	37.96	37.86	41.12	40.96	34.04	35.73	0.5	Pass
HE80	MCS0	2	155	5775	Full	76.84	76.84	82.82	81.63	73.82	75.10	0.5	Pass

TEST RESULTS DATA
Average Power Table

U-NII-3 MIMO													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		Pass/Fail
						Ant 6	Ant 7	SUM	Ant 6	Ant 7	Ant 6	Ant 7	
HE20	MCS0	2	149	5745	Full	19.90	20.10	23.01	30.00		3.43		Pass
HE20	MCS0	2	149	5745	26/0	12.40	12.60	15.51	30.00		3.43		Pass
HE20	MCS0	2	149	5745	52/37	15.00	15.50	18.27	30.00		3.43		Pass
HE20	MCS0	2	149	5745	106/53	18.30	18.20	21.26	30.00		3.43		Pass
HE20	MCS0	2	157	5785	Full	19.80	20.10	22.96	30.00		3.43		Pass
HE20	MCS0	2	157	5785	26/4	12.00	12.30	15.16	30.00		3.43		Pass
HE20	MCS0	2	157	5785	52/38	14.80	15.10	17.96	30.00		3.43		Pass
HE20	MCS0	2	157	5785	106/53	18.20	18.20	21.21	30.00		3.43		Pass
HE20	MCS0	2	165	5825	Full	19.70	20.20	22.97	30.00		3.43		Pass
HE20	MCS0	2	165	5825	26/8	11.80	12.30	15.07	30.00		3.43		Pass
HE20	MCS0	2	165	5825	52/40	14.40	15.00	17.72	30.00		3.43		Pass
HE20	MCS0	2	165	5825	106/54	17.80	17.90	20.86	30.00		3.43		Pass
HE40	MCS0	2	151	5755	Full	19.60	19.90	22.76	30.00		3.43		Pass
HE40	MCS0	2	151	5755	242/61	18.40	18.80	21.61	30.00		3.43		Pass
HE40	MCS0	2	159	5795	Full	19.90	20.00	22.96	30.00		3.43		Pass
HE40	MCS0	2	159	5795	242/62	18.90	19.10	22.01	30.00		3.43		Pass
HE80	MCS0	2	155	5775	Full	19.40	19.80	22.61	30.00		3.43		Pass
HE80	MCS0	2	155	5775	484/65	18.40	19.00	21.72	30.00		3.43		Pass
HE80	MCS0	2	155	5775	484/66	18.40	18.60	21.51	30.00		3.43		Pass

TEST RESULTS DATA
Power Spectral Density

U-NII-3 MIMO																	
Mod.	Data Rate	NTx	CH.	Freq. (MHz)	RU Config.	Duty Factor (dB)		10log (500kHz /RBW) Factor (dB)		Average Power Density with Duty Factor (dBm/500kHz)			Average PSD Limit (dBm/500kHz)		DG (dBi)		Pass /Fail
						Ant 6	Ant 7	Ant 6	Ant 7	Ant 6	Ant 7	SUM	Ant 6	Ant 7	Ant 6	Ant 7	
HE20	MCS0	2	149	5745	Full	0.66	0.66	2.22	7.07	7.01	10.08	30.00	6.00	6.00	Pass		
HE20	MCS0	2	149	5745	26/0	0.66	0.66	2.22	6.83	6.98	9.99	30.00	6.00	6.00	Pass		
HE20	MCS0	2	149	5745	52/37	0.66	0.66	2.22	6.50	6.92	9.93	30.00	6.00	6.00	Pass		
HE20	MCS0	2	149	5745	106/53	0.66	0.66	2.22	6.89	6.73	9.90	30.00	6.00	6.00	Pass		
HE20	MCS0	2	157	5785	Full	0.66	0.66	2.22	6.70	6.84	9.85	30.00	6.00	6.00	Pass		
HE20	MCS0	2	157	5785	26/4	0.66	0.66	2.22	6.23	6.61	9.62	30.00	6.00	6.00	Pass		
HE20	MCS0	2	157	5785	52/38	0.66	0.66	2.22	6.32	6.53	9.54	30.00	6.00	6.00	Pass		
HE20	MCS0	2	157	5785	106/53	0.66	0.66	2.22	6.48	6.22	9.49	30.00	6.00	6.00	Pass		
HE20	MCS0	2	165	5825	Full	0.66	0.66	2.22	6.72	7.07	10.08	30.00	6.00	6.00	Pass		
HE20	MCS0	2	165	5825	26/8	0.66	0.66	2.22	6.21	6.85	9.86	30.00	6.00	6.00	Pass		
HE20	MCS0	2	165	5825	52/40	0.66	0.66	2.22	6.02	6.54	9.55	30.00	6.00	6.00	Pass		
HE20	MCS0	2	165	5825	106/54	0.66	0.66	2.22	6.54	6.59	9.60	30.00	6.00	6.00	Pass		
HE40	MCS0	2	151	5755	Full	0.67	0.65	2.22	4.11	4.34	7.35	30.00	6.00	6.00	Pass		
HE40	MCS0	2	151	5755	242/61	0.67	0.65	2.22	3.90	4.19	7.20	30.00	6.00	6.00	Pass		
HE40	MCS0	2	159	5795	Full	0.67	0.65	2.22	4.20	4.04	7.21	30.00	6.00	6.00	Pass		
HE40	MCS0	2	159	5795	242/62	0.67	0.65	2.22	3.92	3.74	6.93	30.00	6.00	6.00	Pass		
HE80	MCS0	2	155	5775	Full	0.67	0.67	2.22	0.99	1.27	4.28	30.00	6.00	6.00	Pass		
HE80	MCS0	2	155	5775	484/65	0.67	0.67	2.22	0.79	1.05	4.06	30.00	6.00	6.00	Pass		
HE80	MCS0	2	155	5775	484/66	0.67	0.67	2.22	0.86	0.79	3.87	30.00	6.00	6.00	Pass		

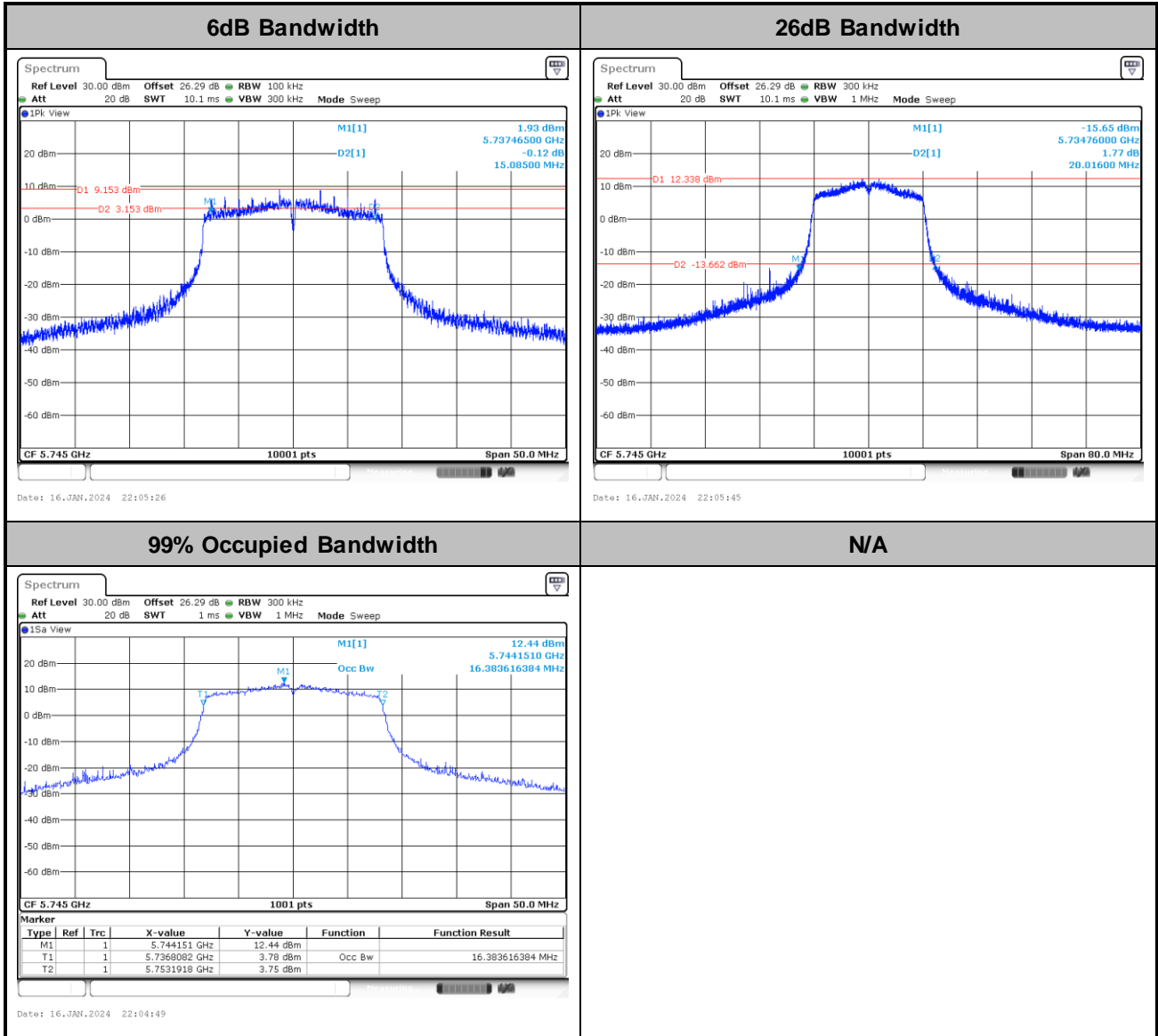
Note: PSD Sum = Max PSD(Ant. 6, Ant. 7) + 10 log (n)



Test Result of 6dB and 26dB and 99% Occupied Bandwidth

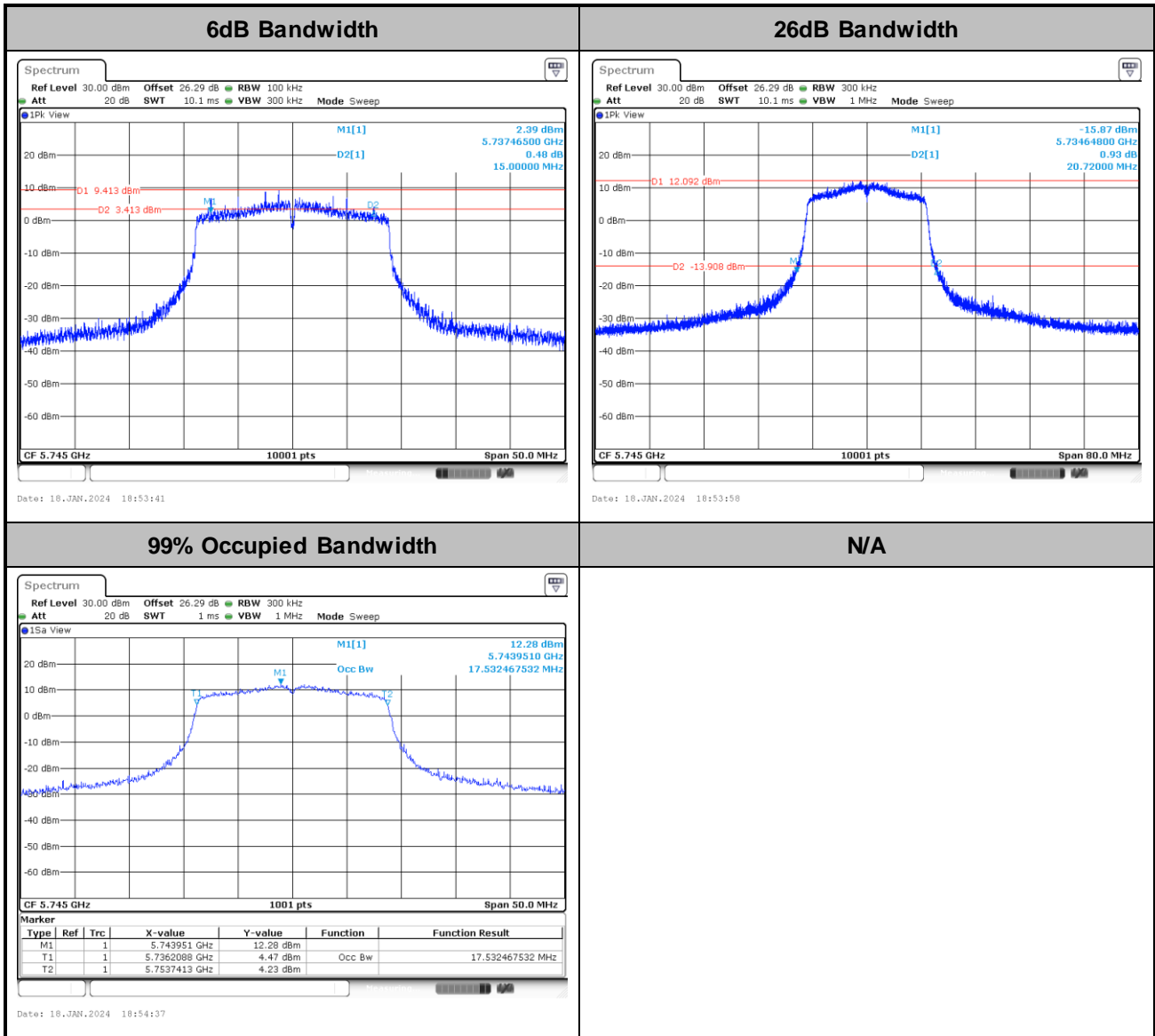
MIMO <Ant. 6+7>

<802.11a>



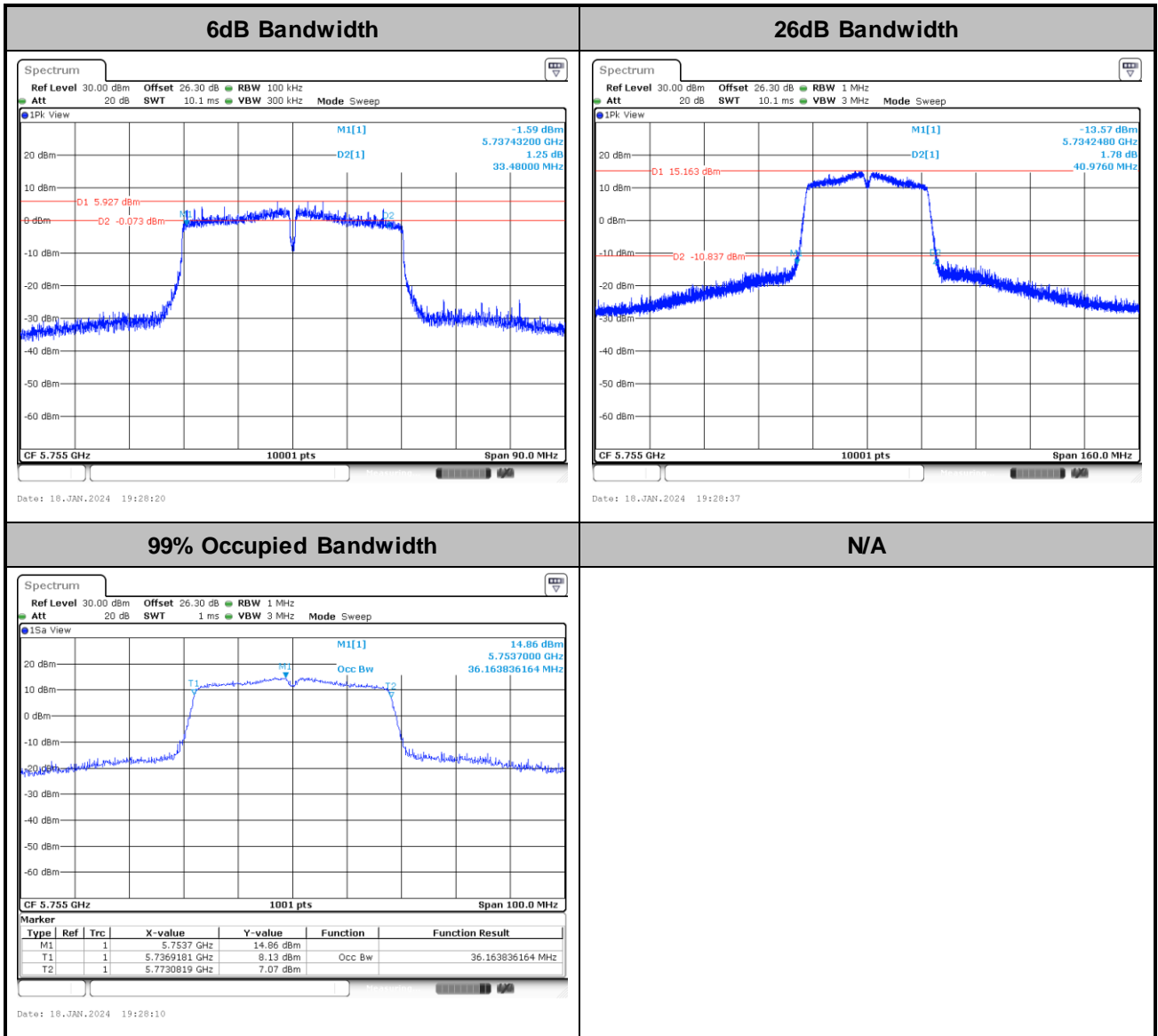


<802.11ac VHT20>



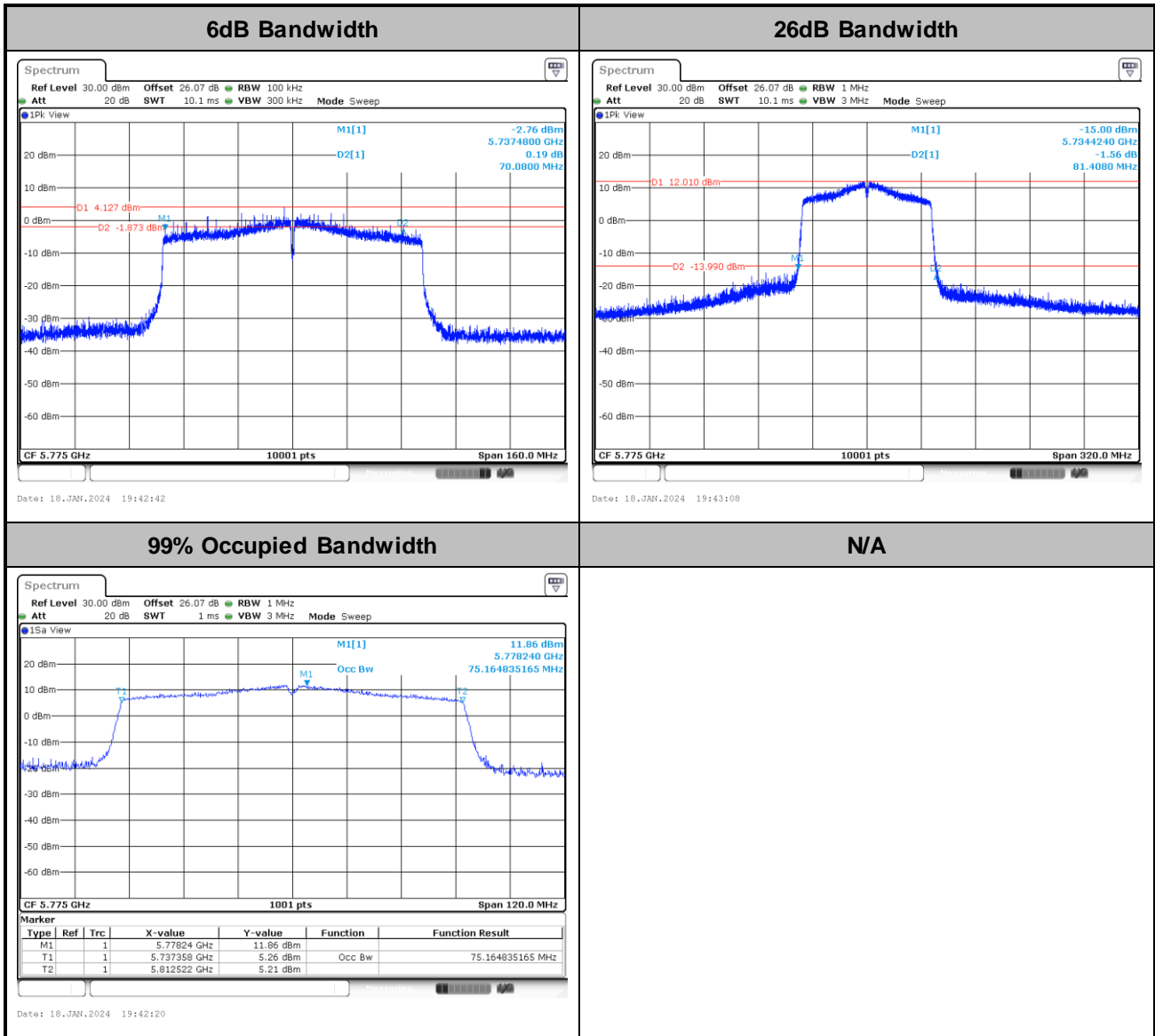


<802.11ac VHT40>



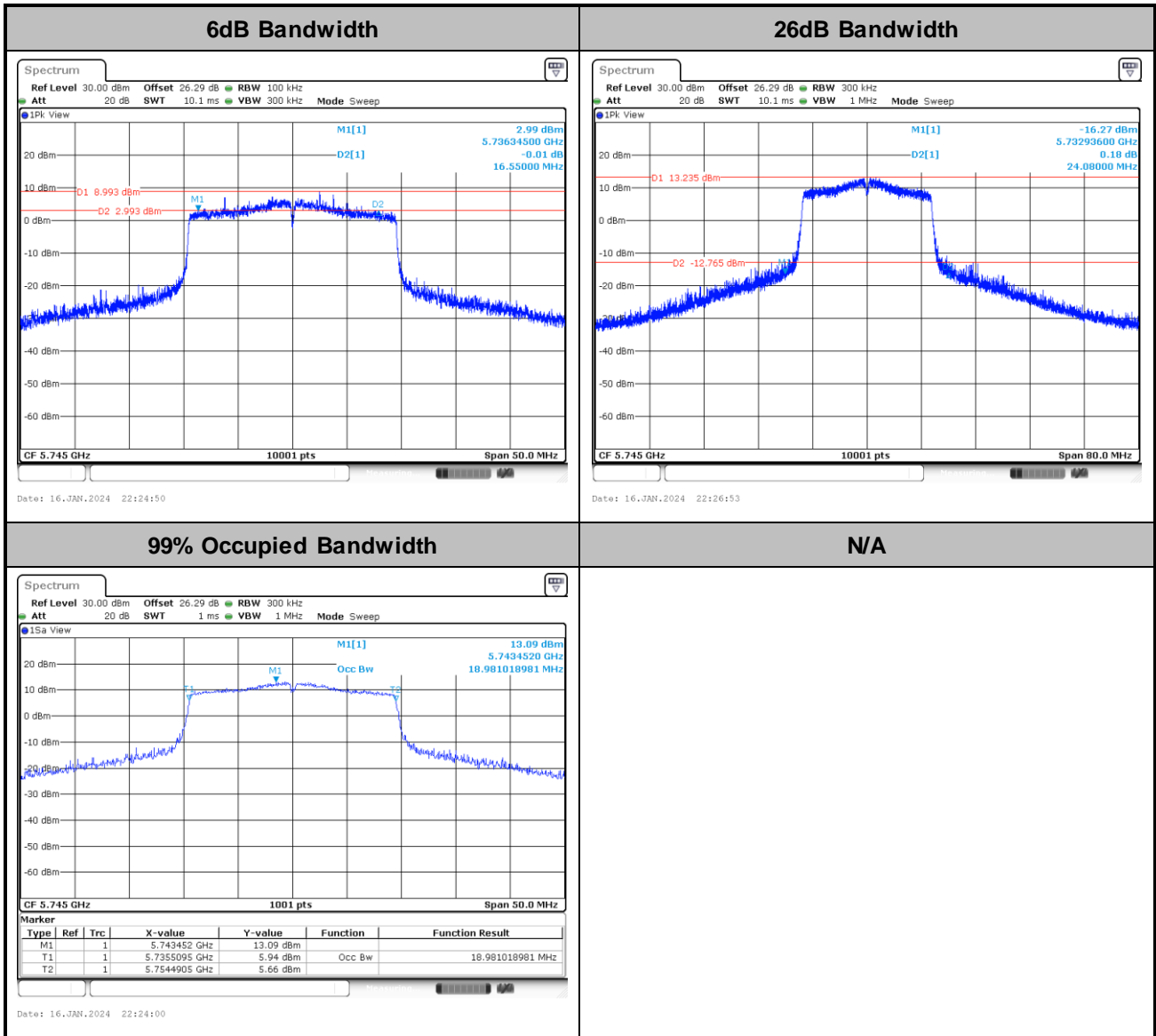


<802.11ac VHT80>



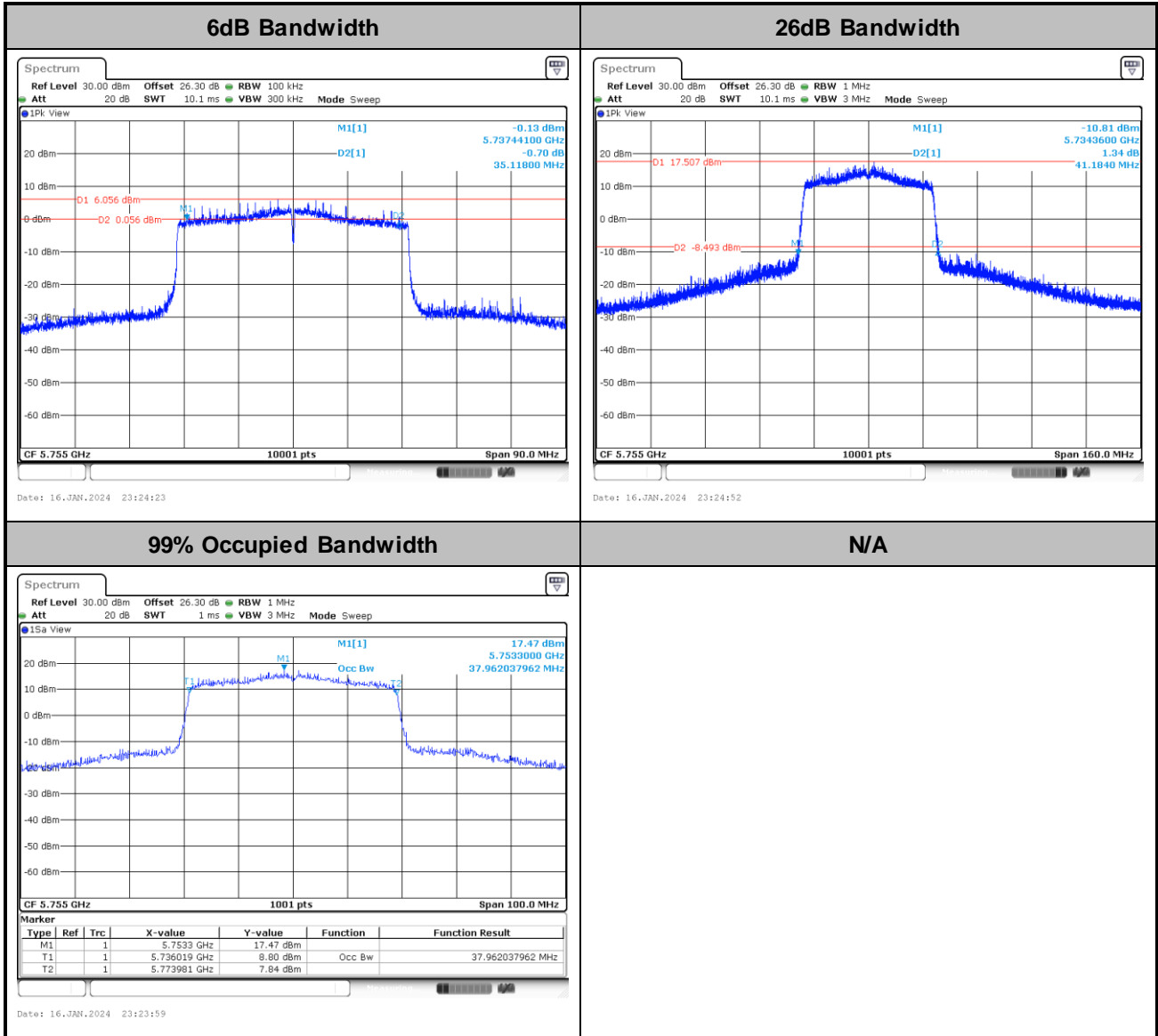


<802.11ax HE20>



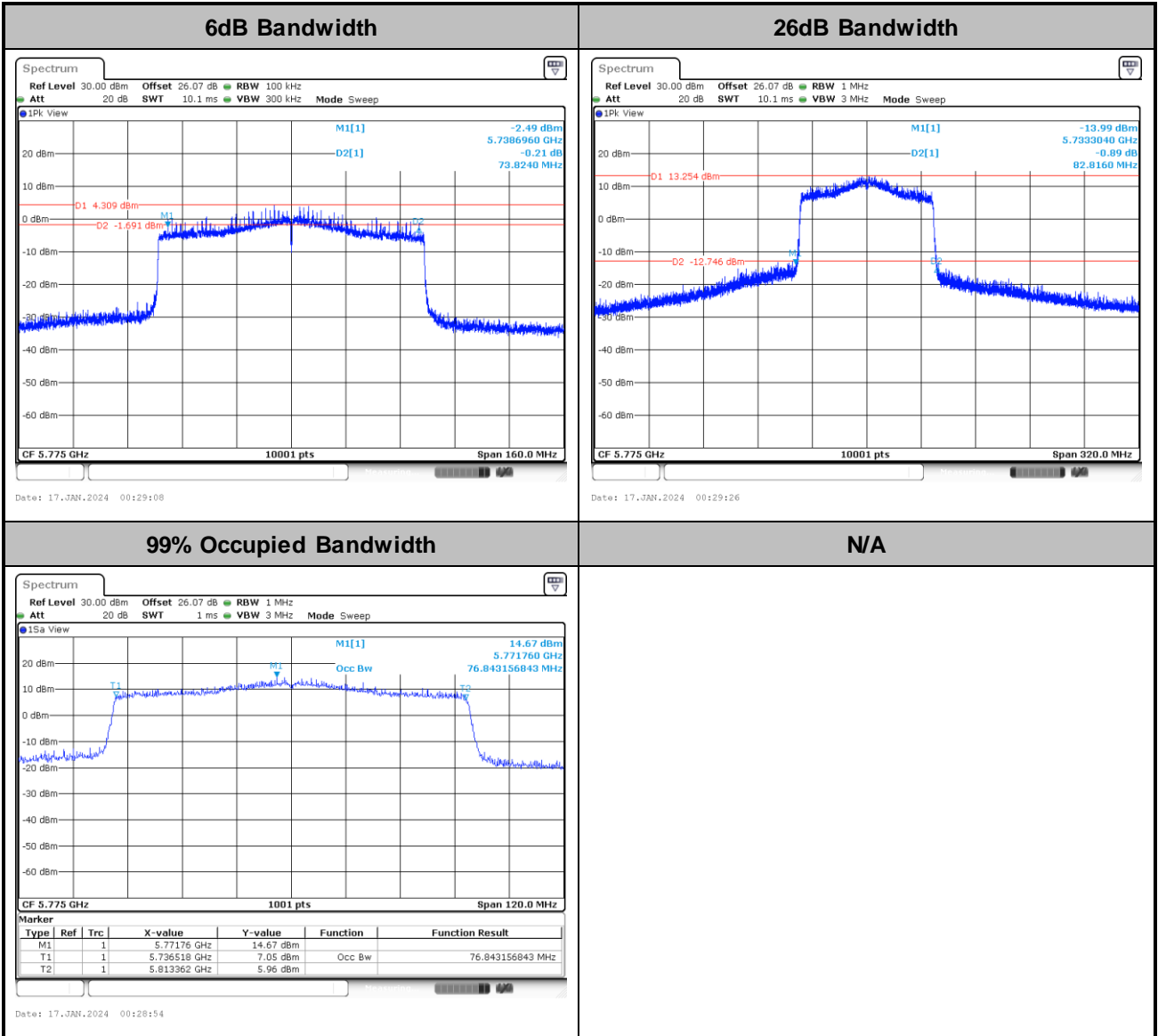


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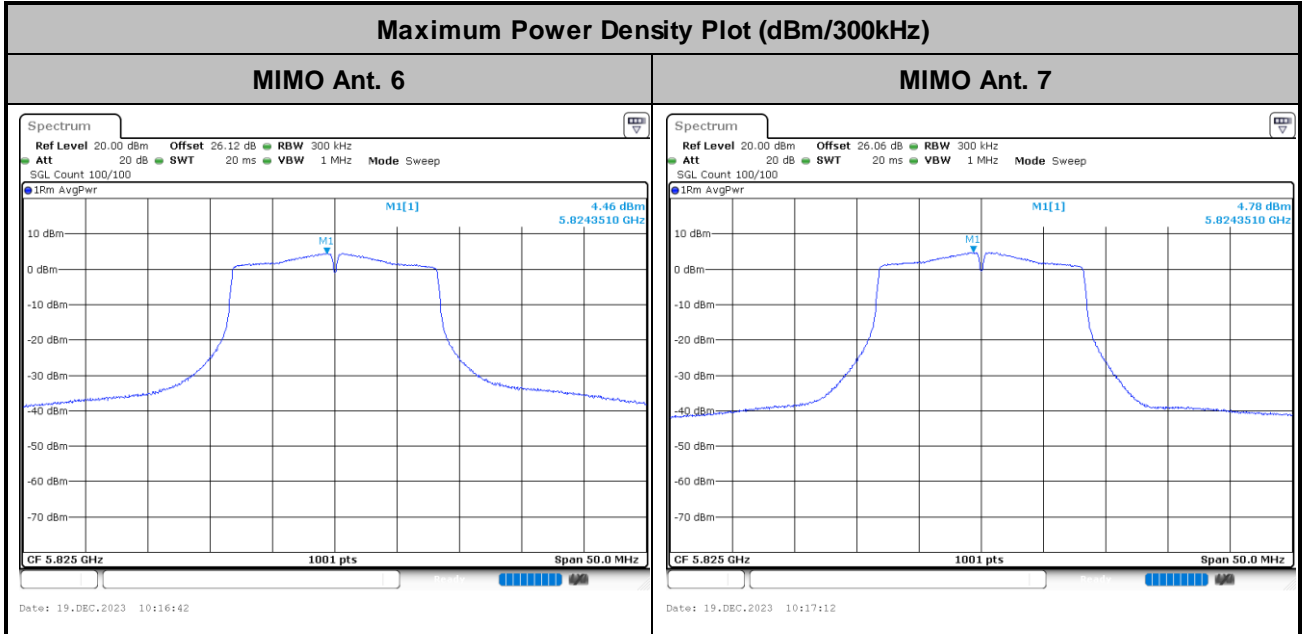
<802.11ax HE80>



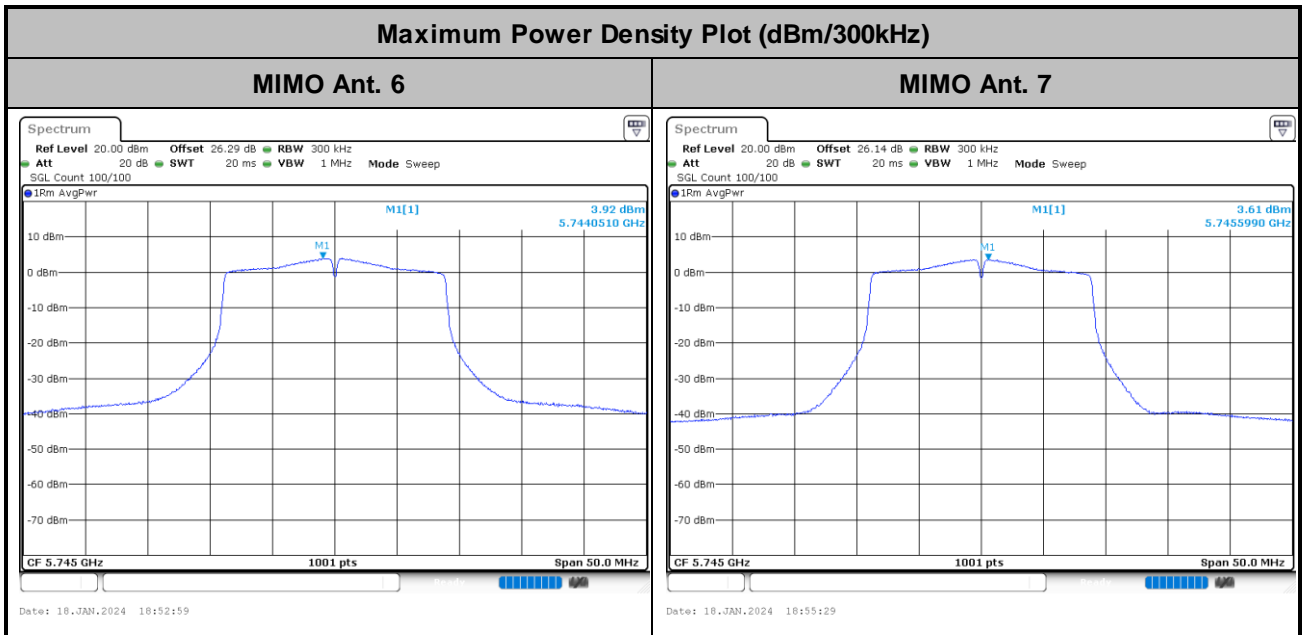


Test Result of Power Spectral Density

<802.11a>

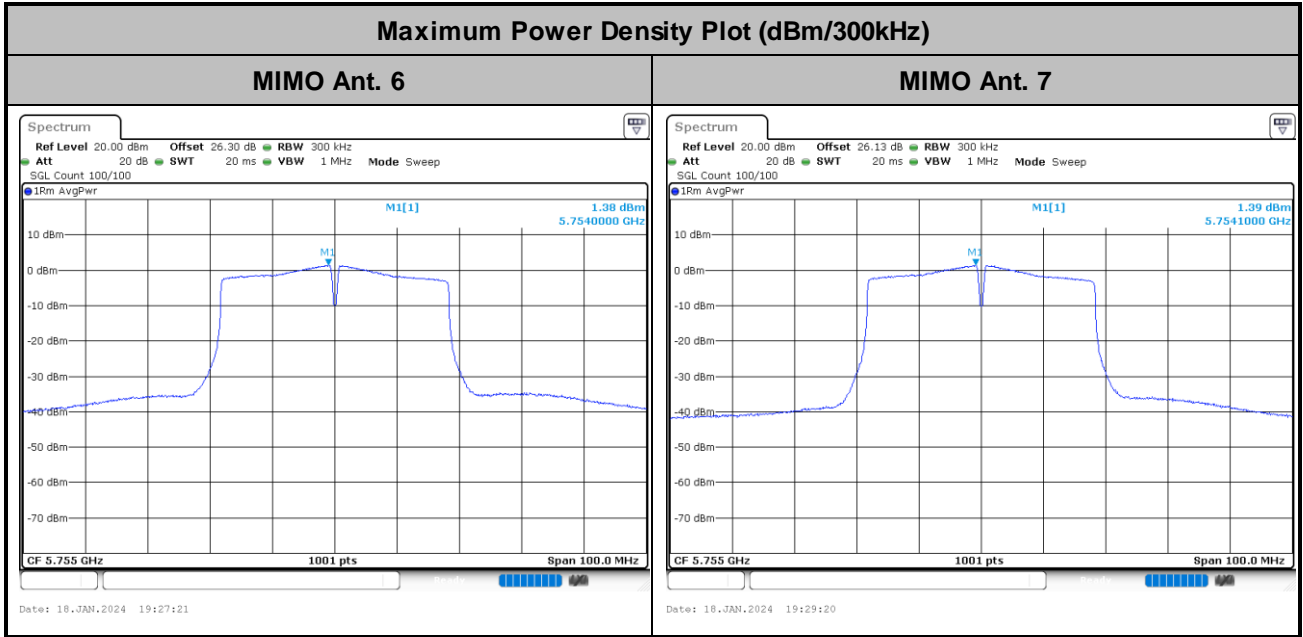


<802.11ac VHT20>

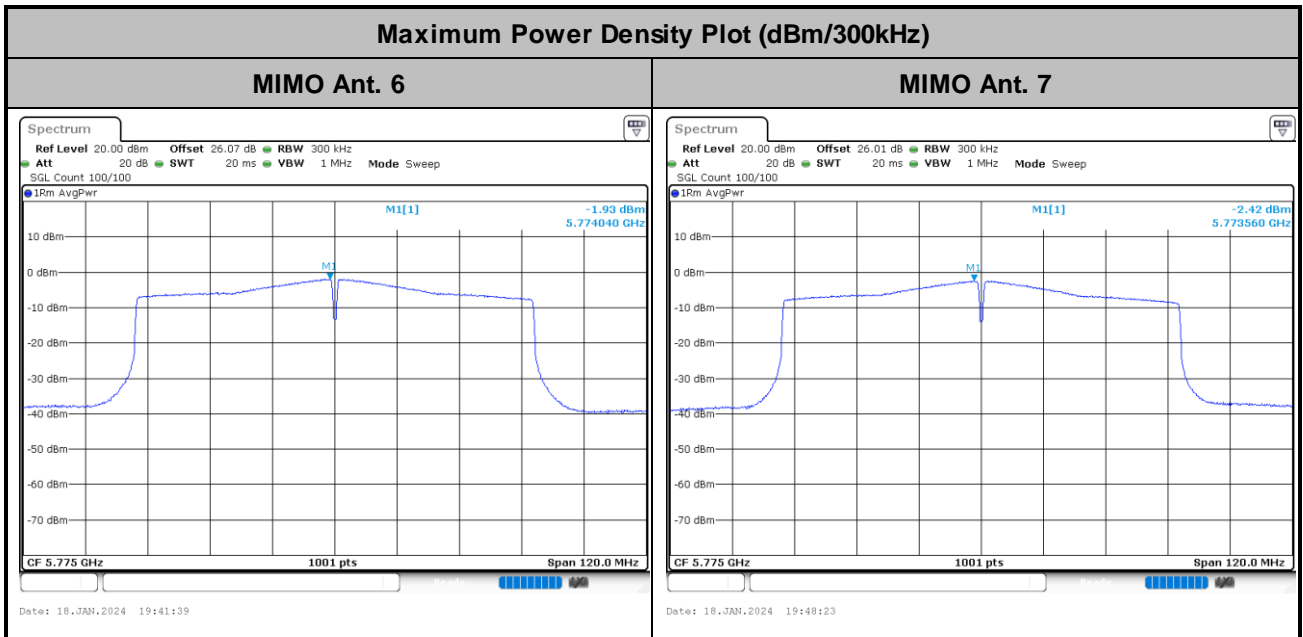




<802.11ac VHT40>

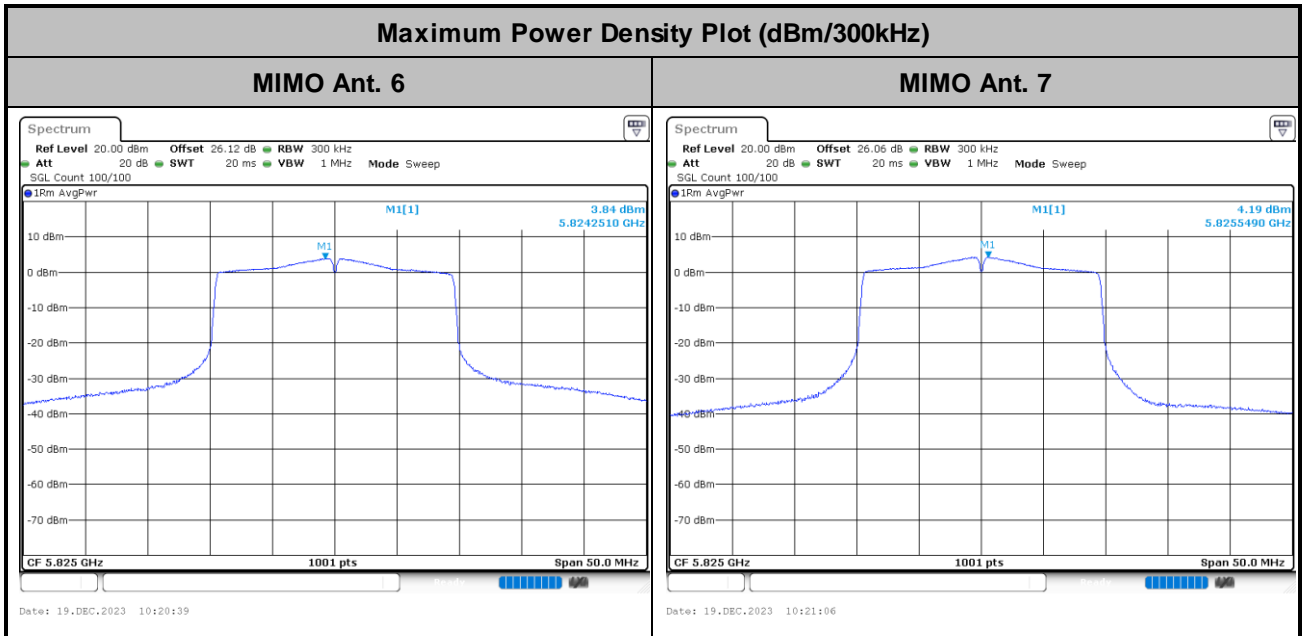


<802.11ac VHT80>

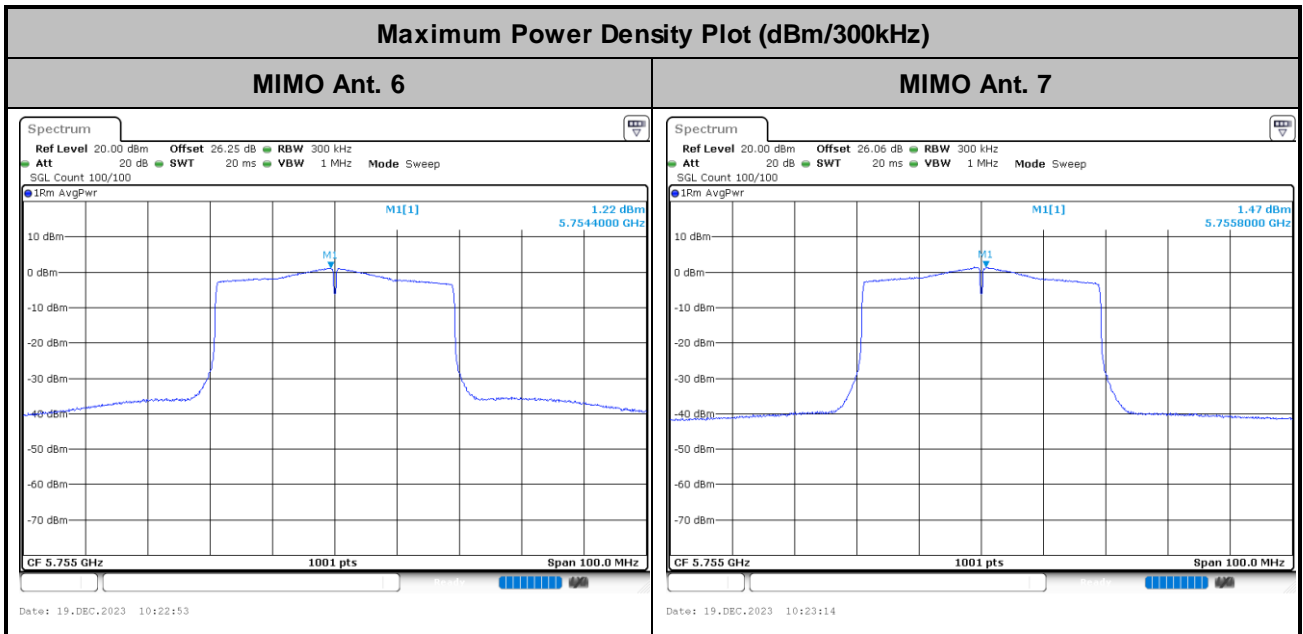




<802.11ax HE20>



<802.11ax HE40>



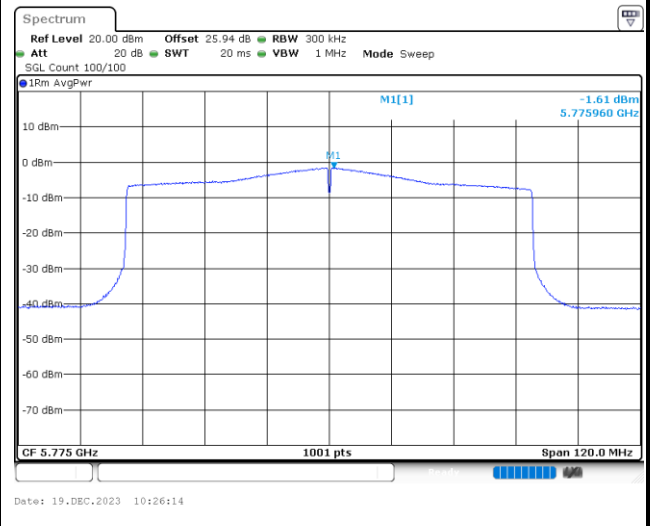
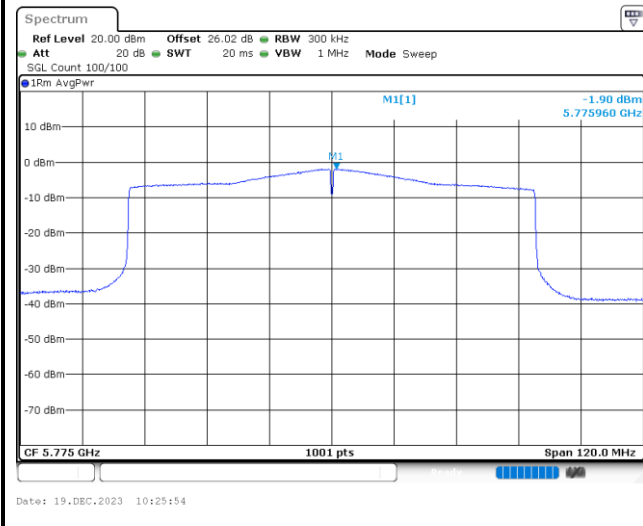


<802.11ax HE80>

Maximum Power Density Plot (dBm/300kHz)

MIMO Ant. 6

MIMO Ant. 7





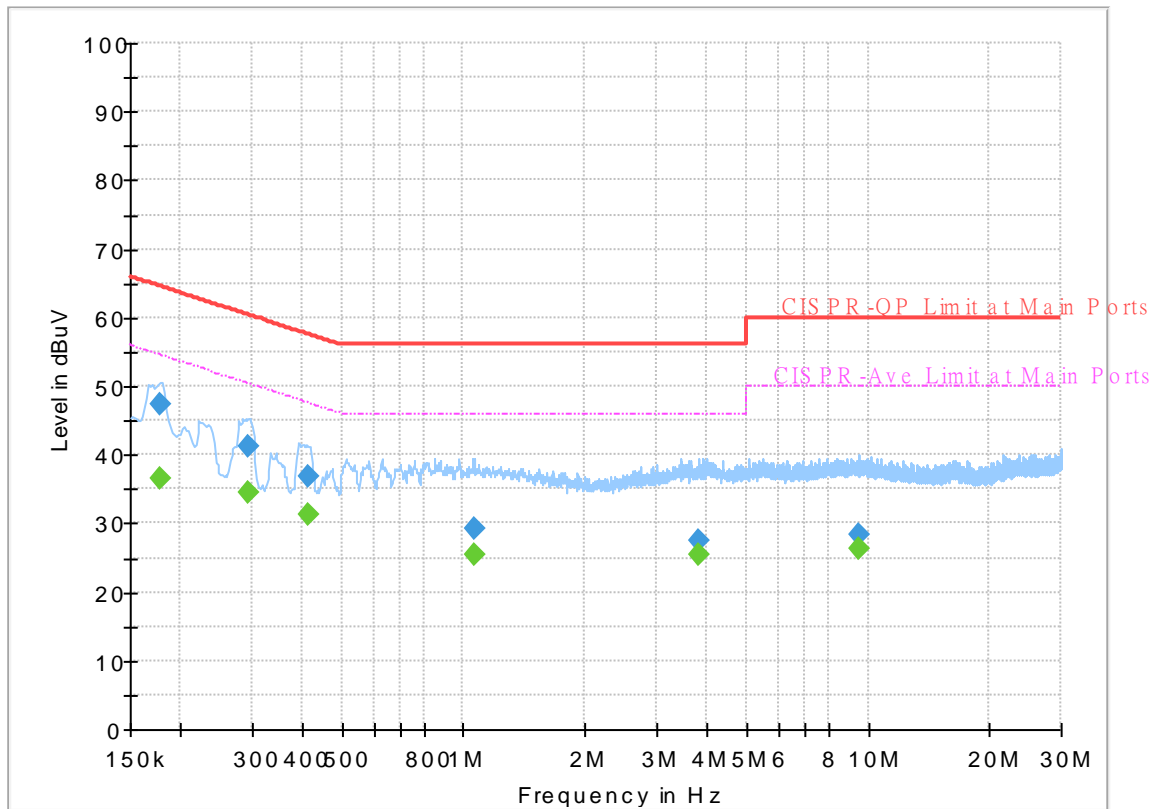
Appendix B. AC Conducted Emission Test Results

Test Engineer :	Calvin Wang	Temperature :	23~26°C
		Relative Humidity :	45~55%

EUT Information

Report NO : 3D0601
 Test Mode : Mode 1
 Test Voltage : 120Vac/60Hz
 Phase : Line

Full Spectrum



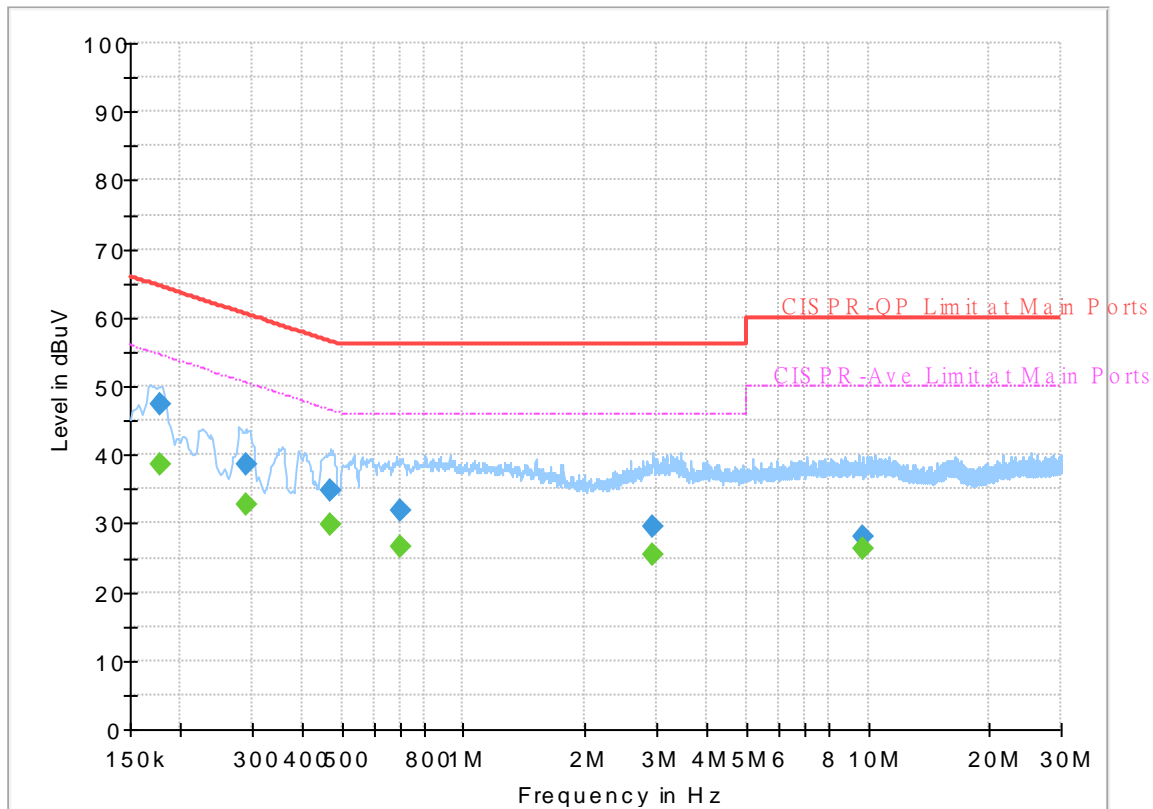
Final Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.177000	---	36.59	54.63	18.04	L1	OFF	19.9
0.177000	47.27	---	64.63	17.36	L1	OFF	19.9
0.294000	---	34.63	50.41	15.78	L1	OFF	19.9
0.294000	41.25	---	60.41	19.16	L1	OFF	19.9
0.413250	---	31.34	47.58	16.24	L1	OFF	19.9
0.413250	36.70	---	57.58	20.88	L1	OFF	19.9
1.063500	---	25.34	46.00	20.66	L1	OFF	19.9
1.063500	29.15	---	56.00	26.85	L1	OFF	19.9
3.826500	---	25.42	46.00	20.58	L1	OFF	20.0
3.826500	27.57	---	56.00	28.43	L1	OFF	20.0
9.534750	---	26.21	50.00	23.79	L1	OFF	20.2
9.534750	28.23	---	60.00	31.77	L1	OFF	20.2

EUT Information

Report NO : 3D0601
 Test Mode : Mode 1
 Test Voltage : 120Vac/60Hz
 Phase : Neutral

Full Spectrum



Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.177000	---	38.52	54.63	16.11	N	OFF	19.9
0.177000	47.40	---	64.63	17.23	N	OFF	19.9
0.289500	---	32.81	50.54	17.73	N	OFF	19.9
0.289500	38.49	---	60.54	22.05	N	OFF	19.9
0.469500	---	29.71	46.52	16.81	N	OFF	19.9
0.469500	34.83	---	56.52	21.69	N	OFF	19.9
0.696750	---	26.62	46.00	19.38	N	OFF	19.9
0.696750	32.02	---	56.00	23.98	N	OFF	19.9
2.940000	---	25.38	46.00	20.62	N	OFF	20.0
2.940000	29.39	---	56.00	26.61	N	OFF	20.0
9.672000	---	26.24	50.00	23.76	N	OFF	20.2
9.672000	28.13	---	60.00	31.87	N	OFF	20.2



Appendix C. Radiated Spurious Emission

Test Engineer :	John Chuang, David Dai and Howard Huang	Temperature :	19.3~23.4°C
		Relative Humidity :	65.9~70.3%

Band 4 - 5725~5850MHz

WIFI 802.11a (Band Edge @ 3m)

WIFI	Note	Frequency	Level	Margin	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.	
Ant.					Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.		
6+7		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)	
802.11a CH 149 5745MHz		5641.175	50.7	-17.5	68.2	42.09	33.2	13.41	38	131	360	P	H	
		5697.2	62.72	-40.42	103.14	53.82	33.39	13.49	37.98	131	360	P	H	
		5719.475	73.43	-37.22	110.65	64.33	33.56	13.52	37.98	131	360	P	H	
		5723.975	79.09	-40.77	119.86	69.96	33.59	13.52	37.98	131	360	P	H	
	*	5745	117.57	-	-	108.23	33.76	13.55	37.97	131	360	P	H	
	*	5745	113.17	-	-	103.83	33.76	13.55	37.97	131	360	A	H	
														H
														H
			5644.325	49.79	-18.41	68.2	41.18	33.2	13.41	38	100	312	P	V
			5698.775	56.24	-48.06	104.3	47.33	33.4	13.49	37.98	100	312	P	V
			5717.9	67.54	-42.67	110.21	58.46	33.54	13.52	37.98	100	312	P	V
			5724.875	74.2	-47.72	121.92	65.06	33.6	13.52	37.98	100	312	P	V
	*		5745	113.89	-	-	104.55	33.76	13.55	37.97	100	312	P	V
	*		5745	108.19	-	-	98.85	33.76	13.55	37.97	100	312	A	V
														V
														V



WIFI	Note	Frequency	Level	Margin	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.	
Ant.					Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.		
6+7		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)	
802.11a CH 157 5785MHz		5640.25	48.95	-19.25	68.2	40.34	33.2	13.41	38	131	360	P	H	
		5700	51.78	-53.42	105.2	42.87	33.4	13.49	37.98	131	360	P	H	
		5719.25	56.42	-54.17	110.59	47.33	33.55	13.52	37.98	131	360	P	H	
		5722	58.93	-56.43	115.36	49.81	33.58	13.52	37.98	131	360	P	H	
	*	5785	120	-	-	110.41	33.94	13.61	37.96	131	360	P	H	
	*	5785	113.69	-	-	104.1	33.94	13.61	37.96	131	360	A	H	
		5854.75	55.89	-55.48	111.37	45.83	34.3	13.7	37.94	131	360	P	H	
		5859	54.9	-54.78	109.68	44.83	34.3	13.71	37.94	131	360	P	H	
		5915.75	52.41	-22.61	75.02	42.26	34.3	13.78	37.93	131	360	P	H	
		5932	49.92	-18.28	68.2	39.75	34.3	13.8	37.93	131	360	P	H	
														H
														H
			5608	48.63	-19.57	68.2	40.07	33.2	13.36	38	307	304	P	V
			5698	48.8	-54.93	103.73	39.9	33.39	13.49	37.98	307	304	P	V
			5720	50.69	-60.11	110.8	41.59	33.56	13.52	37.98	307	304	P	V
			5724.75	52.49	-69.14	121.63	43.35	33.6	13.52	37.98	307	304	P	V
	*		5785	116.78	-	-	107.19	33.94	13.61	37.96	307	304	P	V
	*		5785	109.75	-	-	100.16	33.94	13.61	37.96	307	304	A	V
			5852.75	50.59	-65.34	115.93	40.54	34.3	13.7	37.95	307	304	P	V
			5864.75	51.64	-56.43	108.07	41.57	34.3	13.71	37.94	307	304	P	V
		5880.75	50.12	-50.81	100.93	40.03	34.3	13.73	37.94	307	304	P	V	
		5926.5	50.62	-17.58	68.2	40.46	34.3	13.79	37.93	307	304	P	V	
													V	
													V	



WIFI	Note	Frequency	Level	Margin	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.	
Ant.					Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.		
6+7		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)	
802.11a CH 165 5825MHz	*	5825	119.58	-	-	109.72	34.15	13.66	37.95	128	360	P	H	
	*	5825	113.62	-	-	103.76	34.15	13.66	37.95	128	360	A	H	
		5851.4	73.81	-45.2	119.01	63.76	34.3	13.7	37.95	128	360	P	H	
		5856.8	70.93	-39.37	110.3	60.87	34.3	13.7	37.94	128	360	P	H	
		5875.2	59.87	-45.18	105.05	49.78	34.3	13.73	37.94	128	360	P	H	
		5928.4	51.38	-16.82	68.2	41.21	34.3	13.8	37.93	128	360	P	H	
														H
														H
	*	5825	115.88	-	-	106.02	34.15	13.66	37.95	300	304	P	V	
	*	5825	109.29	-	-	99.43	34.15	13.66	37.95	300	304	A	V	
		5852.8	67.66	-48.16	115.82	57.61	34.3	13.7	37.95	300	304	P	V	
		5858.2	65.05	-44.85	109.9	54.98	34.3	13.71	37.94	300	304	P	V	
		5875.6	55.03	-49.72	104.75	44.94	34.3	13.73	37.94	300	304	P	V	
		5935.6	50.53	-17.67	68.2	40.35	34.3	13.81	37.93	300	304	P	V	
														V
														V
														V
	Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 4 5725~5850MHz
WIFI 802.11a (Harmonic @ 3m)

WIFI	Note	Frequency	Level	Margin	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.	
Ant.					Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.		
6+7		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)	
802.11a CH 149 5745MHz		4596	48.84	-25.16	74	42.59	31.5	12.06	37.31	256	0	P	H	
		4596	42.76	-11.24	54	36.51	31.5	12.06	37.31	256	0	A	H	
		6892	49.06	-19.14	68.2	36.63	35.82	14.88	38.27	131	360	P	H	
		7665	50.08	-23.92	74	35.82	36.56	16.6	38.9	100	304	P	H	
		7665	42.08	-11.92	54	27.82	36.56	16.6	38.9	100	304	A	H	
		8043	55.03	-18.97	74	40.13	37.31	16.81	39.22	305	352	P	H	
		8043	47.4	-6.6	54	32.5	37.31	16.81	39.22	305	352	A	H	
		11490	50.96	-23.04	74	34.41	39.13	20.06	42.64	300	66	P	H	
		11490	40.77	-13.23	54	24.22	39.13	20.06	42.64	300	66	A	H	
		17235	52.83	-15.37	68.2	34.89	37.97	24.74	44.77				P	H
														H
														H
			4596	47.42	-26.58	74	41.17	31.5	12.06	37.31	200	95	P	V
			6892	50.97	-17.23	68.2	38.54	35.82	14.88	38.27	100	312	P	V
			7665	49.74	-24.26	74	35.48	36.56	16.6	38.9	255	27	P	V
			7665	41.46	-12.54	54	27.2	36.56	16.6	38.9	255	27	A	V
			8043	52.2	-21.8	74	37.3	37.31	16.81	39.22	100	300	P	V
			8043	44.78	-9.22	54	29.88	37.31	16.81	39.22	100	300	A	V
			11490	50.75	-23.25	74	34.2	39.13	20.06	42.64	192	360	P	V
			11490	40.95	-13.05	54	24.4	39.13	20.06	42.64	192	360	A	V
		17235	51.76	-16.44	68.2	33.82	37.97	24.74	44.77			P	V	
													V	
													V	
													V	



WIFI	Note	Frequency	Level	Margin	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.	
Ant.					Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.		
6+7		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)	
802.11a CH 157 5785MHz		4628	49.24	-24.76	74	42.91	31.56	12.11	37.34	200	347	P	H	
		4628	42.9	-11.1	54	36.57	31.56	12.11	37.34	200	347	A	H	
		6942	51.51	-16.69	68.2	39.02	35.88	14.92	38.31	131	360	P	H	
		7705	51.16	-22.84	74	36.57	36.71	16.82	38.94	100	299	P	H	
		7705	41.3	-12.7	54	26.71	36.71	16.82	38.94	100	299	A	H	
		8099	54.91	-19.09	74	40.05	37.1	17.03	39.27	295	346	P	H	
		8099	46.68	-7.32	54	31.82	37.1	17.03	39.27	295	346	A	H	
		11570	52.64	-21.36	74	36.32	39.03	20	42.71	400	80	P	H	
		11570	41.42	-12.58	54	25.1	39.03	20	42.71	400	80	A	H	
		17355	52.37	-15.83	68.2	34.38	38.21	24.66	44.88			P	H	
													H	
													H	
			4628	46.74	-27.26	74	40.41	31.56	12.11	37.34	307	304	P	V
			6942	52.17	-16.03	68.2	39.68	35.88	14.92	38.31	307	304	P	V
			7705	52.31	-21.69	74	37.72	36.71	16.82	38.94	238	28	P	V
			7705	42.05	-11.95	54	27.46	36.71	16.82	38.94	238	28	A	V
			8099	53.56	-20.44	74	38.7	37.1	17.03	39.27	102	292	P	V
			8099	44.75	-9.25	54	29.89	37.1	17.03	39.27	102	292	A	V
			11570	51.42	-22.58	74	35.1	39.03	20	42.71	197	10	P	V
			11570	41.75	-12.25	54	25.43	39.03	20	42.71	197	10	A	V
		17355	51.45	-16.75	68.2	33.46	38.21	24.66	44.88			P	V	
													V	
													V	
													V	



Band 4 5725~5850MHz
WIFI 802.11ax HE20_Full (Band Edge @ 3m)

WIFI	Note	Frequency	Level	Margin	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.	
Ant.					Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.		
6+7		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)	
802.11ax HE20 Full CH 149 5745MHz		5627.675	50.99	-17.21	68.2	42.4	33.2	13.39	38	100	357	P	H	
		5693.6	55.1	-45.38	100.48	46.23	33.37	13.48	37.98	100	357	P	H	
		5718.125	60.57	-49.71	110.28	51.48	33.55	13.52	37.98	100	357	P	H	
		5724.875	67.26	-54.66	121.92	58.12	33.6	13.52	37.98	100	357	P	H	
	*	5745	118.19	-	-	108.85	33.76	13.55	37.97	100	357	P	H	
	*	5745	110.93	-	-	101.59	33.76	13.55	37.97	100	357	A	H	
														H
														H
			5642.75	48.97	-19.23	68.2	40.36	33.2	13.41	38	400	328	P	V
			5685.725	49.55	-45.12	94.67	40.73	33.34	13.47	37.99	400	328	P	V
			5719.925	52.51	-58.27	110.78	43.41	33.56	13.52	37.98	400	328	P	V
			5724.2	60.26	-60.12	120.38	51.13	33.59	13.52	37.98	400	328	P	V
	*		5745	111.76	-	-	102.42	33.76	13.55	37.97	400	328	P	V
	*		5745	105.59	-	-	96.25	33.76	13.55	37.97	400	328	A	V
														V
														V



WiFi	Note	Frequency	Level	Margin	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.					Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
6+7		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
		5648.75	48.79	-19.41	68.2	40.16	33.2	13.42	37.99	100	337	P	H
		5690	50.89	-46.94	97.83	42.03	33.36	13.48	37.98	100	337	P	H
		5711.5	52.38	-56.04	108.42	43.36	33.49	13.51	37.98	100	337	P	H
		5723.5	52.29	-66.49	118.78	43.16	33.59	13.52	37.98	100	337	P	H
	*	5785	116.83	-	-	107.24	33.94	13.61	37.96	100	337	P	H
	*	5785	109.26	-	-	99.67	33.94	13.61	37.96	100	337	A	H
		5853.25	53.12	-61.67	114.79	43.07	34.3	13.7	37.95	100	337	P	H
		5857.5	51.11	-58.99	110.1	41.05	34.3	13.7	37.94	100	337	P	H
		5876.25	50.87	-53.4	104.27	40.78	34.3	13.73	37.94	100	337	P	H
		5929.25	50.6	-17.6	68.2	40.43	34.3	13.8	37.93	100	337	P	H
802.11ax													H
HE20 Full													H
CH 157		5627.75	47.57	-20.63	68.2	38.98	33.2	13.39	38	322	296	P	V
5785MHz		5660.75	48.06	-28.12	76.18	39.37	33.24	13.44	37.99	322	296	P	V
		5714.5	48.83	-60.43	109.26	39.78	33.52	13.51	37.98	322	296	P	V
		5722	48.43	-66.93	115.36	39.31	33.58	13.52	37.98	322	296	P	V
	*	5785	111.16	-	-	101.57	33.94	13.61	37.96	322	296	P	V
	*	5785	104.27	-	-	94.68	33.94	13.61	37.96	322	296	A	V
		5850	49.51	-72.69	122.2	39.47	34.3	13.69	37.95	322	296	P	V
		5873	49.87	-55.89	105.76	39.79	34.3	13.72	37.94	322	296	P	V
		5881	49.55	-51.19	100.74	39.45	34.3	13.74	37.94	322	296	P	V
		5948.5	48.91	-19.29	68.2	38.71	34.3	13.82	37.92	322	296	P	V
													V
													V



WIFI	Note	Frequency	Level	Margin	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.	
Ant.					Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.		
6+7		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)	
802.11ax HE20 Full CH 165 5825MHz	*	5825	118.6	-	-	108.74	34.15	13.66	37.95	106	4	P	H	
	*	5825	112.5	-	-	102.64	34.15	13.66	37.95	106	4	A	H	
		5851.2	78.79	-40.67	119.46	68.74	34.3	13.7	37.95	106	4	P	H	
		5858.6	75.25	-34.54	109.79	65.18	34.3	13.71	37.94	106	4	P	H	
		5877	66.77	-36.94	103.71	56.68	34.3	13.73	37.94	106	4	P	H	
		5927	52.16	-16.04	68.2	41.99	34.3	13.8	37.93	106	4	P	H	
														H
														H
	*	5825	114.06	-	-	104.2	34.15	13.66	37.95	297	309	P	V	
	*	5825	107.43	-	-	97.57	34.15	13.66	37.95	297	309	A	V	
		5850.8	76.2	-44.18	120.38	66.15	34.3	13.7	37.95	297	309	P	V	
		5857.2	70.51	-39.67	110.18	60.45	34.3	13.7	37.94	297	309	P	V	
		5878.8	62.84	-39.54	102.38	52.75	34.3	13.73	37.94	297	309	P	V	
		5925	50.38	-17.82	68.2	40.22	34.3	13.79	37.93	297	309	P	V	
														V
													V	
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.													



Band 4 5725~5850MHz
WIFI 802.11ax HE20 Full (Harmonic @ 3m)

WIFI	Note	Frequency	Level	Margin	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.	
Ant.					Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.		
6+7		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)	
802.11ax HE20 Full CH 149 5745MHz		7663	49.89	-24.11	74	35.42	36.55	16.82	38.9	100	300	P	H	
		7663	41.4	-12.6	54	26.93	36.55	16.82	38.9	100	300	A	H	
		8043	59.3	-14.7	74	44.19	37.31	17.02	39.22	306	349	P	H	
		8043	50.78	-3.22	54	35.67	37.31	17.02	39.22	306	349	A	H	
		11490	49.98	-24.02	74	33.56	39.13	19.93	42.64	-	-	P	H	
		17235	51.21	-16.99	68.2	33.43	37.97	24.58	44.77	-	-	P	H	
														H
														H
														H
														H
														H
														H
														H
														H
														H
			7663	50.07	-23.93	74	35.6	36.55	16.82	38.9	200	28	P	V
			7663	40.37	-13.63	54	25.9	36.55	16.82	38.9	200	28	A	V
			8043	55.85	-18.15	74	40.74	37.31	17.02	39.22	100	299	P	V
		8043	47.66	-6.34	54	32.55	37.31	17.02	39.22	100	299	A	V	
		11490	50.85	-23.15	74	34.43	39.13	19.93	42.64	-	-	P	V	
		17235	51.97	-16.23	68.2	34.19	37.97	24.58	44.77	-	-	P	V	
													V	
													V	
													V	
													V	
													V	
													V	



WIFI	Note	Frequency	Level	Margin	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.	
Ant.					Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.		
6+7		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)	
802.11ax HE20 Full CH 157 5785MHz		8100	58.87	-15.13	74	44.02	37.1	17.02	39.27	315	349	P	H	
		8100	50.88	-3.12	54	36.03	37.1	17.02	39.27	315	349	A	H	
		11570	50.38	-23.62	74	34.06	39.03	20	42.71	200	187	P	H	
		11570	41.54	-12.46	54	25.22	39.03	20	42.71	200	187	A	H	
		17355	51.73	-16.47	68.2	33.74	38.21	24.66	44.88	-	-	P	H	
														H
														H
														H
														H
														H
														H
														H
														H
														H
														H
														H
														H
														H



Band 4 5725~5850MHz
WIFI 802.11ax HE20_Partial 106 (Band Edge @ 3m)

WIFI	Note	Frequency	Level	Margin	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.	
Ant.					Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.		
6+7		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)	
802.11ax HE20 Partial 106/53 CH 149 5745MHz		5649.05	66.7	-1.5	68.2	58.07	33.2	13.42	37.99	205	334	P	H	
		5694.05	80.64	-20.17	100.81	71.76	33.38	13.48	37.98	205	334	P	H	
		5712.5	89.6	-19.1	108.7	80.57	33.5	13.51	37.98	205	334	P	H	
		5720.375	89.25	-22.41	111.66	80.15	33.56	13.52	37.98	205	334	P	H	
	*	5745	118.94	-	-	109.6	33.76	13.55	37.97	205	334	P	H	
	*	5745	110.49	-	-	101.15	33.76	13.55	37.97	205	334	A	H	
														H
														H
			5635.775	57.37	-10.83	68.2	48.77	33.2	13.4	38	299	334	P	V
			5699.45	74.79	-30	104.79	65.88	33.4	13.49	37.98	299	334	P	V
			5717.45	86.46	-23.63	110.09	77.39	33.54	13.51	37.98	299	334	P	V
			5723.075	82.22	-35.59	117.81	73.1	33.58	13.52	37.98	299	334	P	V
		*	5745	114.64	-	-	105.3	33.76	13.55	37.97	299	334	P	V
		*	5745	106.9	-	-	97.56	33.76	13.55	37.97	299	334	A	V
													V	
													V	



WIFI	Note	Frequency	Level	Margin	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.	
Ant.					Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.		
6+7		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)	
802.11ax HE20 Partial 106/54 CH 165 5825MHz	*	5825	117.78	-	-	107.92	34.15	13.66	37.95	100	65	P	H	
	*	5825	112.38	-	-	102.52	34.15	13.66	37.95	100	65	A	H	
		5853.6	92.58	-21.41	113.99	82.53	34.3	13.7	37.95	100	65	P	H	
		5855.4	90.11	-20.58	110.69	80.05	34.3	13.7	37.94	100	65	P	H	
		5876.8	82.2	-21.66	103.86	72.11	34.3	13.73	37.94	100	65	P	H	
		5936.2	64.6	-3.6	68.2	54.42	34.3	13.81	37.93	100	65	P	H	
														H
														H
	*	5825	114.77	-	-	104.91	34.15	13.66	37.95	100	92	P	V	
	*	5825	108.54	-	-	98.68	34.15	13.66	37.95	100	92	A	V	
		5851.2	90.33	-29.13	119.46	80.28	34.3	13.7	37.95	100	92	P	V	
		5862.2	86.74	-22.04	108.78	76.67	34.3	13.71	37.94	100	92	P	V	
		5877.2	77.45	-26.12	103.57	67.36	34.3	13.73	37.94	100	92	P	V	
		5931.2	60.82	-7.38	68.2	50.65	34.3	13.8	37.93	100	92	P	V	
														V
													V	
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.													



Band 4 5725~5850MHz
WIFI 802.11ax HE40_Full (Band Edge @ 3m)

WIFI	Note	Frequency	Level	Margin	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.					Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
6+7		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
		5618	62.08	-6.12	68.2	53.5	33.2	13.38	38	122	357	P	H
		5699.5	74.51	-30.32	104.83	65.6	33.4	13.49	37.98	122	357	P	H
		5712.75	81.67	-27.1	108.77	72.64	33.5	13.51	37.98	122	357	P	H
		5723.25	83.81	-34.4	118.21	74.68	33.59	13.52	37.98	122	357	P	H
	*	5755	117.35	-	-	107.93	33.82	13.57	37.97	122	357	P	H
	*	5755	110.81	-	-	101.39	33.82	13.57	37.97	122	357	A	H
		5852.5	65.98	-50.52	116.5	55.93	34.3	13.7	37.95	122	357	P	H
		5855.5	63.5	-47.16	110.66	53.44	34.3	13.7	37.94	122	357	P	H
		5875	63.15	-42.05	105.2	53.06	34.3	13.73	37.94	122	357	P	H
		5933.5	52.67	-15.53	68.2	42.5	34.3	13.8	37.93	122	357	P	H
802.11ax													H
HE40 Full													H
CH 151		5609.75	56.29	-11.91	68.2	47.73	33.2	13.36	38	400	334	P	V
5755MHz		5695.5	64.29	-37.59	101.88	55.41	33.38	13.48	37.98	400	334	P	V
		5713.5	72.55	-36.43	108.98	63.51	33.51	13.51	37.98	400	334	P	V
		5723.25	77.66	-40.55	118.21	68.53	33.59	13.52	37.98	400	334	P	V
	*	5755	112.83	-	-	103.41	33.82	13.57	37.97	400	334	P	V
	*	5755	104.63	-	-	95.21	33.82	13.57	37.97	400	334	A	V
		5854.25	54.1	-58.41	112.51	44.04	34.3	13.7	37.94	400	334	P	V
		5855.25	57.12	-53.61	110.73	47.06	34.3	13.7	37.94	400	334	P	V
		5877.5	55.83	-47.51	103.34	45.74	34.3	13.73	37.94	400	334	P	V
		5933	50.63	-17.57	68.2	40.46	34.3	13.8	37.93	400	334	P	V
													V
													V



WiFi	Note	Frequency	Level	Margin	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.	
Ant.					Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.		
6+7		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)	
802.11ax HE40 Full CH 159 5795MHz		5648	55.33	-12.87	68.2	46.7	33.2	13.42	37.99	120	3	P	H	
		5696.25	60.63	-41.81	102.44	51.74	33.39	13.48	37.98	120	3	P	H	
		5719	68.33	-42.19	110.52	59.24	33.55	13.52	37.98	120	3	P	H	
		5724	66.58	-53.34	119.92	57.45	33.59	13.52	37.98	120	3	P	H	
	*	5795	120.52	-	-	110.88	33.98	13.62	37.96	120	3	P	H	
	*	5795	110.74	-	-	101.1	33.98	13.62	37.96	120	3	A	H	
		5851.5	69.9	-48.88	118.78	59.85	34.3	13.7	37.95	120	3	P	H	
		5863.75	67.83	-40.52	108.35	57.76	34.3	13.71	37.94	120	3	P	H	
		5878.5	64.99	-37.61	102.6	54.9	34.3	13.73	37.94	120	3	P	H	
		5939.5	56.4	-11.8	68.2	46.21	34.3	13.81	37.92	120	3	P	H	
														H
														H
			5645.75	53.26	-14.94	68.2	44.65	33.2	13.41	38	304	307	P	V
			5680	56.48	-33.96	90.44	47.69	33.32	13.46	37.99	304	307	P	V
			5720	61.33	-49.47	110.8	52.23	33.56	13.52	37.98	304	307	P	V
			5720	61.33	-49.47	110.8	52.23	33.56	13.52	37.98	304	307	P	V
	*		5795	114.02	-	-	104.38	33.98	13.62	37.96	304	307	P	V
	*		5795	106.06	-	-	96.42	33.98	13.62	37.96	304	307	A	V
			5853.5	64.13	-50.09	114.22	54.08	34.3	13.7	37.95	304	307	P	V
			5860.25	62.35	-46.98	109.33	52.28	34.3	13.71	37.94	304	307	P	V
		5877.75	60.67	-42.49	103.16	50.58	34.3	13.73	37.94	304	307	P	V	
		5928	55.16	-13.04	68.2	44.99	34.3	13.8	37.93	304	307	P	V	
													V	
													V	
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.													



Band 4 5725~5850MHz

WIFI 802.11ax HE40_Full (Harmonic @ 3m)

WIFI	Note	Frequency	Level	Margin	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.	
Ant.					Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.		
6+7		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)	
802.11ax HE40 Full CH 151 5755MHz		4604	53.1	-20.9	74	46.84	31.51	12.07	37.32	289	348	P	H	
		4604	44.91	-9.09	54	38.65	31.51	12.07	37.32	289	348	A	H	
		7682	51.14	-22.86	74	36.61	36.63	16.82	38.92	304	344	P	H	
		7682	41.95	-12.05	54	27.42	36.63	16.82	38.92	304	344	A	H	
		8055	57.01	-16.99	74	41.94	37.28	17.02	39.23	315	349	P	H	
		8055	49.45	-4.55	54	34.38	37.28	17.02	39.23	315	349	A	H	
		11510	50.72	-23.28	74	34.34	39.09	19.95	42.66	155	321	P	H	
		11510	41.16	-12.84	54	24.78	39.09	19.95	42.66	155	321	A	H	
		17265	50.81	-17.39	68.2	32.97	38.03	24.6	44.79	-	-	P	H	
														H
														H
														H
			4604	49.26	-24.74	74	43	31.51	12.07	37.32	100	334	P	V
			4604	38.28	-15.72	54	32.02	31.51	12.07	37.32	100	334	A	V
			7682	50.67	-23.33	74	36.14	36.63	16.82	38.92	100	304	P	V
			7682	40.54	-13.46	54	26.01	36.63	16.82	38.92	100	304	A	V
			8055	53.86	-20.14	74	38.79	37.28	17.02	39.23	100	301	P	V
			8055	46.59	-7.41	54	31.52	37.28	17.02	39.23	100	301	A	V
			11510	50.59	-23.41	74	34.21	39.09	19.95	42.66	200	360	P	V
			11510	41.22	-12.78	54	24.84	39.09	19.95	42.66	200	360	A	V
		17265	50.69	-17.51	68.2	32.85	38.03	24.6	44.79	-	-	P	V	
													V	
													V	
													V	



WIFI	Note	Frequency	Level	Margin	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.	
Ant.					Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.		
6+7		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)	
802.11ax HE40 Full CH 159 5795MHz		4636	51.72	-22.28	74	45.38	31.57	12.12	37.35	203	345	P	H	
		4636	43.35	-10.65	54	37.01	31.57	12.12	37.35	203	345	A	H	
		7707	51	-23	74	36.4	36.71	16.83	38.94	100	303	P	H	
		7707	41.8	-12.2	54	27.2	36.71	16.83	38.94	100	303	A	H	
		8113	58.3	-15.7	74	43.46	37.1	17.02	39.28	300	347	P	H	
		8113	48.94	-5.06	54	34.1	37.1	17.02	39.28	300	347	A	H	
		11590	50.19	-23.81	74	33.89	39.01	20.02	42.73	300	187	P	H	
		11590	41.03	-12.97	54	24.73	39.01	20.02	42.73	300	187	A	H	
		17385	53.3	-14.9	68.2	35.25	38.27	24.68	44.9	-	-	P	H	
														H
														H
														H
			4636	49.15	-24.85	74	42.81	31.57	12.12	37.35	198	84	P	V
			4636	38.37	-15.63	54	32.03	31.57	12.12	37.35	198	84	A	V
			7707	50.78	-23.22	74	36.18	36.71	16.83	38.94	250	21	P	V
			7707	41.13	-12.87	54	26.53	36.71	16.83	38.94	250	21	A	V
			8111	55.64	-18.36	74	40.8	37.1	17.02	39.28	100	295	P	V
			8113	46.07	-7.93	54	31.23	37.1	17.02	39.28	100	295	A	V
			11590	50.01	-23.99	74	33.71	39.01	20.02	42.73	200	12	P	V
			11590	41.08	-12.92	54	24.78	39.01	20.02	42.73	200	12	A	V
		17385	51.52	-16.68	68.2	33.47	38.27	24.68	44.9	-	-	P	V	
													V	
													V	
													V	
Remark	<ol style="list-style-type: none"> No other spurious found. All results are PASS against Peak and Average limit line. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only. 													



Band 4 5725~5850MHz
WIFI 802.11ax HE40_Partial 242 (Band Edge @ 3m)

WIFI	Note	Frequency	Level	Margin	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.	
Ant.					Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.		
6+7		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)	
802.11ax HE40 Partial 242/61 CH 151 5755MHz		5636.75	63.52	-4.68	68.2	54.92	33.2	13.4	38	146	331	P	H	
		5697.25	78.64	-24.53	103.17	69.74	33.39	13.49	37.98	146	331	P	H	
		5719.5	84.02	-26.64	110.66	74.92	33.56	13.52	37.98	146	331	P	H	
		5722	83.07	-32.29	115.36	73.95	33.58	13.52	37.98	146	331	P	H	
	*	5755	115.02	-	-	105.6	33.82	13.57	37.97	146	331	P	H	
	*	5755	106.18	-	-	96.76	33.82	13.57	37.97	146	331	A	H	
		5852.75	64.64	-51.29	115.93	54.59	34.3	13.7	37.95	146	331	P	H	
		5868.5	64.09	-42.93	107.02	54.01	34.3	13.72	37.94	146	331	P	H	
		5877	63.97	-39.74	103.71	53.88	34.3	13.73	37.94	146	331	P	H	
		5939.75	56.46	-11.74	68.2	46.27	34.3	13.81	37.92	146	331	P	H	
														H
														H
			5638	63.1	-5.1	68.2	54.5	33.2	13.4	38	266	331	P	V
			5695	73.77	-27.74	101.51	64.89	33.38	13.48	37.98	266	331	P	V
			5719.5	79.6	-31.06	110.66	70.5	33.56	13.52	37.98	266	331	P	V
			5723.5	79.85	-38.93	118.78	70.72	33.59	13.52	37.98	266	331	P	V
	*		5755	111.16	-	-	101.74	33.82	13.57	37.97	266	331	P	V
	*		5755	102.12	-	-	92.7	33.82	13.57	37.97	266	331	A	V
			5853.5	58.68	-55.54	114.22	48.63	34.3	13.7	37.95	266	331	P	V
			5855.25	56.49	-54.24	110.73	46.43	34.3	13.7	37.94	266	331	P	V
		5878.25	55.12	-47.67	102.79	45.03	34.3	13.73	37.94	266	331	P	V	
		5926.25	49.39	-18.81	68.2	39.23	34.3	13.79	37.93	266	331	P	V	
													V	
													V	



WIFI	Note	Frequency	Level	Margin	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.	
Ant.					Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.		
6+7		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)	
802.11ax HE40 Partial 242/62 CH 159 5795MHz		5642.5	56.65	-11.55	68.2	48.04	33.2	13.41	38	107	64	P	H	
		5678.5	62.01	-27.32	89.33	53.23	33.31	13.46	37.99	107	64	P	H	
		5711.5	68.28	-40.14	108.42	59.26	33.49	13.51	37.98	107	64	P	H	
		5724.5	67.39	-53.67	121.06	58.25	33.6	13.52	37.98	107	64	P	H	
	*	5795	115.82	-	-	106.18	33.98	13.62	37.96	107	64	P	H	
	*	5795	108.23	-	-	98.59	33.98	13.62	37.96	107	64	A	H	
		5853	80.95	-34.41	115.36	70.9	34.3	13.7	37.95	107	64	P	H	
		5855	78.95	-31.85	110.8	68.89	34.3	13.7	37.94	107	64	P	H	
		5876	69.36	-35.1	104.46	59.27	34.3	13.73	37.94	107	64	P	H	
		5925.75	63.84	-4.36	68.2	53.68	34.3	13.79	37.93	107	64	P	H	
														H
														H
			5634.75	56.84	-11.36	68.2	48.24	33.2	13.4	38	100	305	P	V
			5684.75	61.73	-32.22	93.95	52.91	33.34	13.47	37.99	100	305	P	V
			5711.5	67.78	-40.64	108.42	58.76	33.49	13.51	37.98	100	305	P	V
			5720	67.44	-43.36	110.8	58.34	33.56	13.52	37.98	100	305	P	V
	*		5795	112.32	-	-	102.68	33.98	13.62	37.96	100	305	P	V
	*		5795	104.25	-	-	94.61	33.98	13.62	37.96	100	305	A	V
			5853	78.66	-36.7	115.36	68.61	34.3	13.7	37.95	100	305	P	V
			5859.5	77.93	-31.61	109.54	67.86	34.3	13.71	37.94	100	305	P	V
		5877.25	68.38	-35.15	103.53	58.29	34.3	13.73	37.94	100	305	P	V	
		5925	62.07	-6.13	68.2	51.91	34.3	13.79	37.93	100	305	P	V	
													V	
													V	
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.													



Band 4 5725~5850MHz
WIFI 802.11ax HE80_Full (Band Edge @ 3m)

WIFI	Note	Frequency	Level	Margin	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.					Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
6+7		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
		5645.5	64.49	-3.71	68.2	55.88	33.2	13.41	38	100	2	P	H
		5699.5	73.45	-31.38	104.83	64.54	33.4	13.49	37.98	100	2	P	H
		5718.5	77.52	-32.86	110.38	68.43	33.55	13.52	37.98	100	2	P	H
		5723	78.63	-39.01	117.64	69.51	33.58	13.52	37.98	100	2	P	H
	*	5775	114.81	-	-	105.27	33.9	13.6	37.96	100	2	P	H
	*	5775	108.06	-	-	98.52	33.9	13.6	37.96	100	2	A	H
		5854.75	70.66	-40.71	111.37	60.6	34.3	13.7	37.94	100	2	P	H
		5857	69.36	-40.88	110.24	59.3	34.3	13.7	37.94	100	2	P	H
		5883.25	68.69	-30.38	99.07	58.59	34.3	13.74	37.94	100	2	P	H
		5926	63.22	-4.98	68.2	53.06	34.3	13.79	37.93	100	2	P	H
802.11ax													H
HE80 Full													H
CH 155		5633.5	57.95	-10.25	68.2	49.35	33.2	13.4	38	400	333	P	V
5775MHz		5693	62.91	-37.13	100.04	54.04	33.37	13.48	37.98	400	333	P	V
		5711.5	67.8	-40.62	108.42	58.78	33.49	13.51	37.98	400	333	P	V
		5722.5	68.84	-47.66	116.5	59.72	33.58	13.52	37.98	400	333	P	V
	*	5775	108.26	-	-	98.72	33.9	13.6	37.96	400	333	P	V
	*	5775	102.11	-	-	92.57	33.9	13.6	37.96	400	333	A	V
		5853.5	60.73	-53.49	114.22	50.68	34.3	13.7	37.95	400	333	P	V
		5862	62.91	-45.93	108.84	52.84	34.3	13.71	37.94	400	333	P	V
		5881.75	58.3	-41.89	100.19	48.2	34.3	13.74	37.94	400	333	P	V
		5927.5	55.77	-12.43	68.2	45.6	34.3	13.8	37.93	400	333	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 4 5725~5850MHz

WIFI 802.11ax HE80_Full (Harmonic @ 3m)

WIFI	Note	Frequency	Level	Margin	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.	
Ant.					Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.		
6+7		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)	
802.11ax HE80 Full CH 155 5775MHz		8085	55.7	-18.3	74	40.77	37.16	17.03	39.26	300	348	P	H	
		8085	46.97	-7.03	54	32.04	37.16	17.03	39.26	300	348	A	H	
		11550	49.79	-24.21	74	33.45	39.05	19.98	42.69	200	115	P	H	
		11550	41.37	-12.63	54	25.03	39.05	19.98	42.69	200	115	A	H	
		17325	51.52	-16.68	68.2	33.58	38.15	24.64	44.85	-	-	P	H	
														H
														H
														H
														H
														H
														H
														H
														H
			8085	52.66	-21.34	74	37.73	37.16	17.03	39.26	100	303	P	V
			8085	44.15	-9.85	54	29.22	37.16	17.03	39.26	100	303	A	V
			11550	50.49	-23.51	74	34.15	39.05	19.98	42.69	400	153	P	V
			11550	41.39	-12.61	54	25.05	39.05	19.98	42.69	400	153	A	V
			17325	51.18	-17.02	68.2	33.24	38.15	24.64	44.85	-	-	P	V
														V
														V
														V
														V
														V
														V
													V	

Remark

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.
3. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only.



Band 4 5725~5850MHz
WIFI 802.11ax HE80_Partial 484 (Band Edge @ 3m)

WIFI	Note	Frequency	Level	Margin	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.	
Ant.					Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.		
6+7		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)	
802.11ax HE80 Partial 484/65 CH 155 5775MHz		5650	65.24	-2.96	68.2	56.61	33.2	13.42	37.99	100	2	P	H	
		5674.25	69.25	-16.94	86.19	60.49	33.3	13.45	37.99	100	2	P	H	
		5718.25	71.24	-39.07	110.31	62.15	33.55	13.52	37.98	100	2	P	H	
		5723.5	72.68	-46.1	118.78	63.55	33.59	13.52	37.98	100	2	P	H	
	*	5775	111.85	-	-	102.31	33.9	13.6	37.96	100	2	P	H	
	*	5775	103.54	-	-	94	33.9	13.6	37.96	100	2	A	H	
		5854.75	72.93	-38.44	111.37	62.87	34.3	13.7	37.94	100	2	P	H	
		5867.75	74.96	-32.27	107.23	64.88	34.3	13.72	37.94	100	2	P	H	
		5879.25	71.86	-30.18	102.04	61.77	34.3	13.73	37.94	100	2	P	H	
		5931.75	66.29	-1.91	68.2	56.12	34.3	13.8	37.93	100	2	P	H	
														H
														H
			5636.25	56.33	-11.87	68.2	47.73	33.2	13.4	38	293	288	P	V
			5674.25	61.73	-24.46	86.19	52.97	33.3	13.45	37.99	293	288	P	V
			5718.5	60.95	-49.43	110.38	51.86	33.55	13.52	37.98	293	288	P	V
			5724.75	64.89	-56.74	121.63	55.75	33.6	13.52	37.98	293	288	P	V
	*		5775	103.89	-	-	94.35	33.9	13.6	37.96	293	288	P	V
	*		5775	97.75	-	-	88.21	33.9	13.6	37.96	293	288	A	V
			5853	63.32	-52.04	115.36	53.27	34.3	13.7	37.95	293	288	P	V
			5873.25	66.31	-39.38	105.69	56.22	34.3	13.73	37.94	293	288	P	V
		5878.5	65.79	-36.81	102.6	55.7	34.3	13.73	37.94	293	288	P	V	
		5938.75	56.66	-11.54	68.2	46.47	34.3	13.81	37.92	293	288	P	V	
													V	
													V	
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.													



WIFI	Note	Frequency	Level	Margin	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.	
Ant.					Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.		
6+7		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)	
802.11ax HE80 Partial 484/66 CH 155 5775MHz		5650	65.72	-2.48	68.2	57.09	33.2	13.42	37.99	222	356	P	H	
		5676.75	71.52	-16.52	88.04	62.74	33.31	13.46	37.99	222	356	P	H	
		5716.75	75.33	-34.56	109.89	66.27	33.53	13.51	37.98	222	356	P	H	
		5721.25	75.04	-38.61	113.65	65.93	33.57	13.52	37.98	222	356	P	H	
	*	5775	110.36	-	-	100.82	33.9	13.6	37.96	222	356	P	H	
	*	5775	103.68	-	-	94.14	33.9	13.6	37.96	222	356	A	H	
		5850.75	71.89	-48.6	120.49	61.84	34.3	13.7	37.95	222	356	P	H	
		5861.25	76.78	-32.27	109.05	66.71	34.3	13.71	37.94	222	356	P	H	
		5875.75	76.68	-27.96	104.64	66.59	34.3	13.73	37.94	222	356	P	H	
		5925	66.64	-1.56	68.2	56.48	34.3	13.79	37.93	222	356	P	H	
														H
														H
			5648.25	56.57	-11.63	68.2	47.94	33.2	13.42	37.99	100	88	P	V
			5677.25	62.39	-26.02	88.41	53.61	33.31	13.46	37.99	100	88	P	V
			5716.5	67.31	-42.51	109.82	58.25	33.53	13.51	37.98	100	88	P	V
			5721.25	68.49	-45.16	113.65	59.38	33.57	13.52	37.98	100	88	P	V
	*		5775	105.6	-	-	96.06	33.9	13.6	37.96	100	88	P	V
	*		5775	98.63	-	-	89.09	33.9	13.6	37.96	100	88	A	V
			5853.5	70.26	-43.96	114.22	60.21	34.3	13.7	37.95	100	88	P	V
			5861.25	73.7	-35.35	109.05	63.63	34.3	13.71	37.94	100	88	P	V
		5880	71.95	-29.54	101.49	61.86	34.3	13.73	37.94	100	88	P	V	
		5936	65.7	-2.5	68.2	55.52	34.3	13.81	37.93	100	88	P	V	
													V	
													V	
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.													



Emission above 18GHz

5GHz WIFI 802.11ax HE20 Full (SHF @ 1m)

WIFI	Note	Frequency	Level	Margin	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.	
Ant.					Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.		
6+7		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)	
802.11ax HE20 Full SHF		39398	54.41	-19.59	74	38.23	45.46	27.28	56.56	-	-	P	H	
		39398	45.75	-8.25	54	29.57	45.46	27.28	56.56	-	-	A	H	
													H	
													H	
													H	
													H	
													H	
														H
														H
														H
														H
			39496	55.73	-18.27	74	40.01	44.91	27.31	56.5	-	-	P	V
			39496	45.79	-8.21	54	30.07	44.91	27.31	56.5	-	-	A	V
														V
														V
														V
														V
														V
														V
														V
													V	
Remark	1. No other spurious found. 2. All results are PASS against limit line. 3. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only.													



Emission below 1GHz

5GHz WIFI 802.11ax HE20 Full (LF @ 3m)

WIFI	Note	Frequency	Level	Margin	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.	
Ant.					Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.		
6+7		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)	
802.11ax HE20 Full LF		30.68	24.17	-15.83	40	33.82	24.64	1.3	35.59	-	-	P	H	
		41.9	22.31	-17.69	40	37.93	18.63	1.34	35.59	-	-	P	H	
		80.83	30.49	-9.51	40	50.54	13.71	1.77	35.53	-	-	P	H	
		562.4	30.2	-15.8	46	33.74	26.34	4.48	34.36	-	-	P	H	
		773.6	33.43	-12.57	46	33.71	28.11	5.18	33.57	-	-	P	H	
		945.6	35.12	-10.88	46	31.77	30.59	5.76	33	-	-	P	H	
													H	
													H	
													H	
													H	
													H	
													H	
													H	
													H	
			41.9	29.86	-10.14	40	45.47	18.64	1.34	35.59	100	351	Q	V
			45.81	29.79	-10.21	40	47.33	16.64	1.4	35.58	100	360	Q	V
			52.1	28.99	-11.01	40	49.3	13.8	1.45	35.56	-	-	P	V
			564	29.43	-16.57	46	32.94	26.35	4.49	34.35	-	-	P	V
			835.2	34.86	-11.14	46	34.24	28.64	5.4	33.42	-	-	P	V
			949.6	35.36	-10.64	46	31.8	30.77	5.77	32.98	-	-	P	V
													V	
													V	
													V	
													V	
													V	
													V	
Remark	<ol style="list-style-type: none"> No other spurious found. All results are PASS against limit line. The emission position marked as "-" means no suspected emission found and emission level has at least 6dB margin against limit or emission is noise floor only. 													



Note symbol

*	Fundamental Frequency which can be ignored. However, the level of any unwanted emissions shall not exceed the level of the fundamental frequency.
!	Test result is Margin line.
P/A	Peak or Average
H/V	Horizontal or Vertical



A calculation example for radiated spurious emission is shown as below:

WIFI	Note	Frequency	Level	Margin	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.					Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
6+7		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a		5650	55.45	-18.55	74	54.51	32.22	4.58	35.86	103	308	P	H
CH 149		5650	43.54	-10.46	54	42.6	32.22	4.58	35.86	103	308	A	H
5745MHz													

1. Path Loss(dB) = Cable loss(dB) + Filter loss(dB) + Attenuator loss(dB)
2. Level(dBμV/m) = Antenna Factor(dB/m) + Path Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)
3. Margin (dB) = Level(dBμV/m) – Limit Line(dBμV/m)

For Peak Limit @ 5650MHz:

1. Level(dBμV/m)
 - = Antenna Factor(dB/m) + Path Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)
 - = 32.22(dB/m) + 4.58(dB) + 54.51(dBμV) – 35.86 (dB)
 - = 55.45 (dBμV/m)
2. Margin(dB)
 - = Level(dBμV/m) – Limit Line(dBμV/m)
 - = 55.45(dBμV/m) – 74(dBμV/m)
 - = -18.55(dB)

For Average Limit @ 5650MHz:

1. Level(dBμV/m)
 - = Antenna Factor(dB/m) + Path Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)
 - = 32.22(dB/m) + 4.58(dB) + 42.6(dBμV) – 35.86 (dB)
 - = 43.54 (dBμV/m)
2. Margin(dB) = Level(dBμV/m) – Limit Line(dBμV/m)
 - = 43.54(dBμV/m) – 54(dBμV/m)
 - = -10.46(dB)

Both peak and average measured complies with the limit line, so test result is “PASS”.

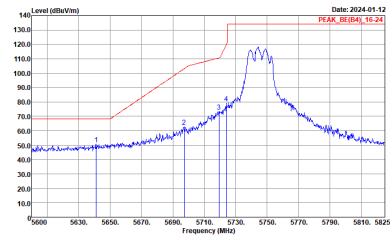
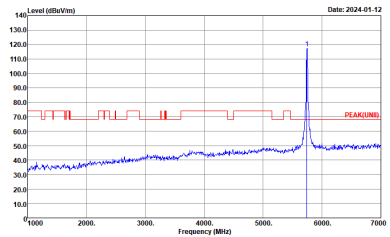
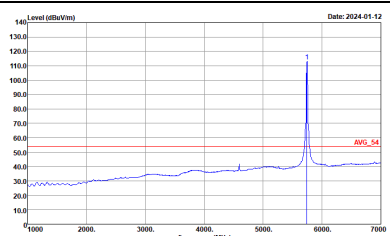


Appendix D. Radiated Spurious Emission Plots

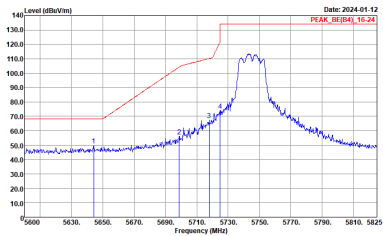
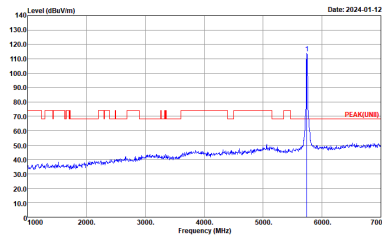
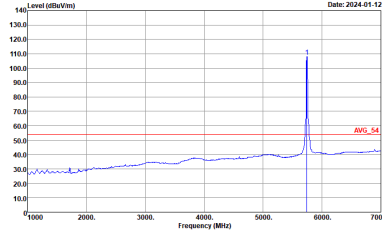
Test Engineer :	John Chuang, David Dai and Howard Huang	Temperature :	19.3~23.4°C
		Relative Humidity :	65.9~70.3%



Band 4 - 5725~5850MHz
WIFI 802.11a (Band Edge @ 3m)

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH149 5745MHz	
6+7	Horizontal	Fundamental
Peak	 <p>Site : 03CH20-HY Condition : PEAK_36[94]_16-24 3m 91200_02360_231030 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>	 <p>Site : 03CH20-HY Condition : PEAK[UNIT] 3m 91200_02360_231030 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>
Avg	Left blank	 <p>Site : 03CH20-HY Condition : AVG_54 3m 91200_02360_231030 HORIZONTAL : RBW:1000.000kHz VBW:0.620kHz SWT:Auto</p>



WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH149 5745MHz	
6+7	Vertical	Fundamental
Peak	 <p>Date: 2024-01-12 PEAK_BE(B4)_16-24</p> <p>Site : 03CH20-HY Condition : PEAK_BE(B4)_16-24 3m 91200_02360_231030 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	 <p>Date: 2024-01-12 PEAK(LINE)</p> <p>Site : 03CH20-HY Condition : PEAK(LINE) 3m 91200_02360_231030 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
Avg	Left blank	 <p>Date: 2024-01-12 AVG_54</p> <p>Site : 03CH20-HY Condition : AVG_54 3m 91200_02360_231030 VERTICAL : RBW:1000.000KHz VBW:0.620KHz SWT:Auto</p>



WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH157 5785MHz	
6+7	Horizontal	Fundamental
Peak	<p>Site : 03CH20-HY Condition : PEAK_BE(B4)_16-24 3m 91200_02360_231030 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	<p>Site : 03CH20-HY Condition : PEAK(LINE) 3m 91200_02360_231030 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
Avg	Left blank	
		<p>Site : 03CH20-HY Condition : AVG_54 3m 91200_02360_231030 HORIZONTAL : RBW:1000.000KHz VBW:0.620KHz SWT:Auto</p>

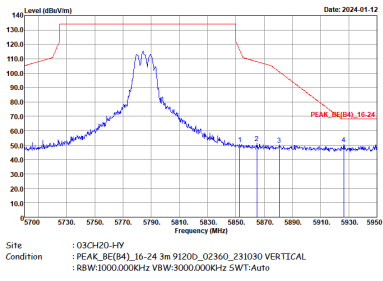


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH157 5785MHz	
6+7	Horizontal	Fundamental
Peak	<p>Site : 09CH20-HY Condition : PEAK_IN(94)_16-24 3m 91200_02360_231030-HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>	Left blank

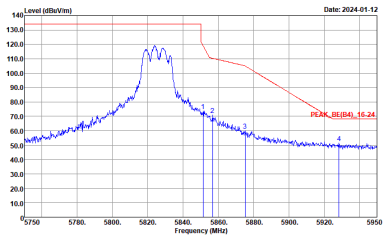
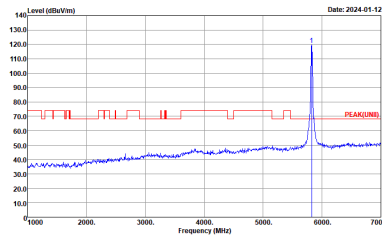
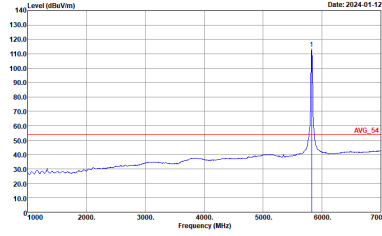


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH157 5785MHz	
6+7	Vertical	Fundamental
Peak		
Avg	Left blank	

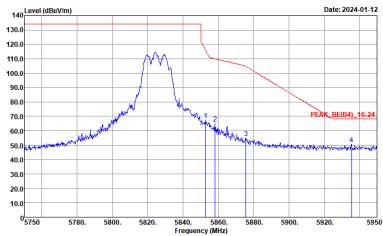
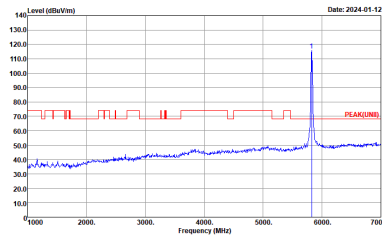
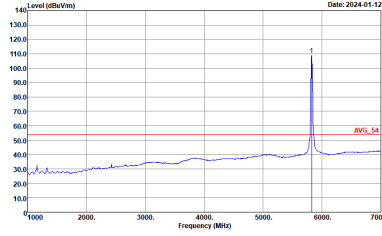


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH157 5785MHz	
6+7	Vertical	Fundamental
Peak	 <p>Site : 09CH20-HY Condition : PEAK_9C(94)_16-24 3m 91200_02360_231030 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	Left blank



WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH165 5825MHz	
6+7	Horizontal	Fundamental
Peak	 <p>Site : 03CH20-HY Condition : PEAK_8E[94]_16-24 3m 91200_02360_231030 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	 <p>Site : 03CH20-HY Condition : PEAK(LINE) 3m 91200_02360_231030 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
Avg	Left blank	 <p>Site : 03CH20-HY Condition : AVG_54 3m 91200_02360_231030 HORIZONTAL : RBW:1000.000KHz VBW:0.620KHz SWT:Auto</p>



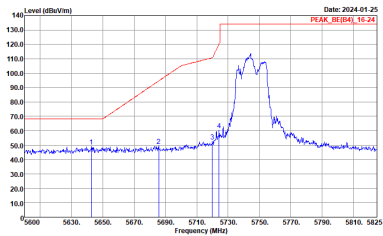
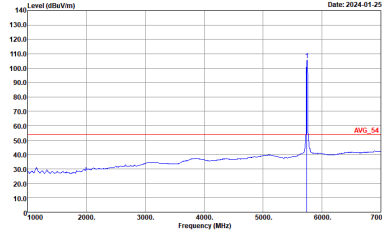
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH165 5825MHz	
6+7	Vertical	Fundamental
Peak	 <p>Site : 03CH20-HY Condition : PEAK_8E[94]_16-24 3m 91200_02360_231030 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	 <p>Site : 03CH20-HY Condition : PEAK[LINE] 3m 91200_02360_231030 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
Avg	Left blank	 <p>Site : 03CH20-HY Condition : AV6_54 3m 91200_02360_231030 VERTICAL : RBW:1000.000KHz VBW:0.620KHz SWT:Auto</p>



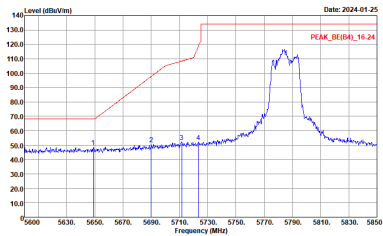
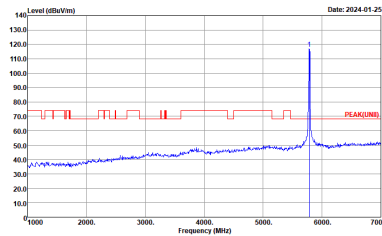
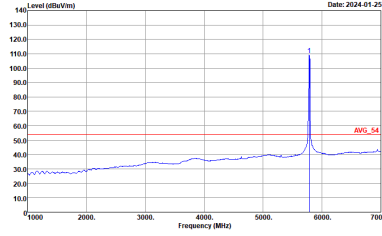
Band 4 5725~5850MHz
WIFI 802.11ax HE20 Full (Band Edge @ 3m)

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH149 5745MHz	
6+7	Horizontal	Fundamental
Peak	<p>Site : 03CH20-HY Condition : PEAK_BE(84)_16-24 3m 91200_02360_231030 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	<p>Site : 03CH20-HY Condition : PEAK(UNII) 3m 91200_02360_231030 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
Avg	Left blank	<p>Site : 03CH20-HY Condition : AVG_54 3m 91200_02360_231030 HORIZONTAL : RBW:1000.000KHz VBW:0.270KHz SWT:Auto</p>



WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH149 5745MHz	
6+7	Vertical	Fundamental
Peak	 <p>Site : 03CH20-HY Condition : PEAK_BE[94]_16-24 3m 91200_02360_231030 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	 <p>Site : 03CH20-HY Condition : PEAK[LINE] 3m 91200_02360_231030 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
Avg	Left blank	 <p>Site : 03CH20-HY Condition : AVG_54 3m 91200_02360_231030 VERTICAL : RBW:1000.000KHz VBW:0.270KHz SWT:Auto</p>



WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH157 5785MHz	
6+7	Horizontal	Fundamental
Peak	 <p>Site : 03CH20-HY Condition : PEAK_BE[94]_16-24 3m 91200_02360_231030 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	 <p>Site : 03CH20-HY Condition : PEAK[LINE] 3m 91200_02360_231030 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
Avg	Left blank	
		 <p>Site : 03CH20-HY Condition : AVG_54 3m 91200_02360_231030 HORIZONTAL : RBW:1000.000KHz VBW:0.270KHz SWT:Auto</p>



WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH157 5785MHz	
6+7	Horizontal	Fundamental
Peak	<p>Site : 09CH20-HY Condition : PEAK_94_16-24 3m 91200_02360_231030-HORIZONTAL RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>	Left blank

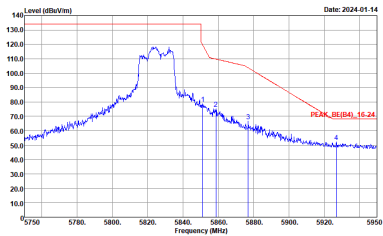
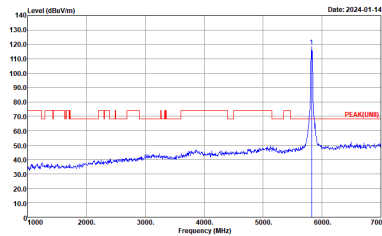
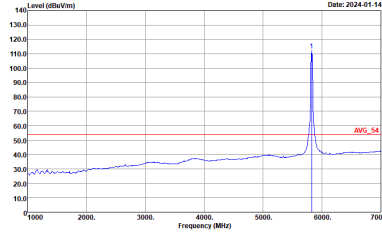


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH157 5785MHz	
6+7	Vertical	Fundamental
Peak	<p>Site : 03CH20-HY Condition : PEAK_RE(B4)_16-24 3m 91200_02360_231030 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	<p>Site : 03CH20-HY Condition : PEAK(LINE) 3m 91200_02360_231030 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
Avg	Left blank	<p>Site : 03CH20-HY Condition : AVG_54 3m 91200_02360_231030 VERTICAL : RBW:1000.000KHz VBW:0.270KHz SWT:Auto</p>

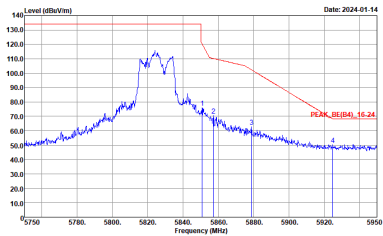
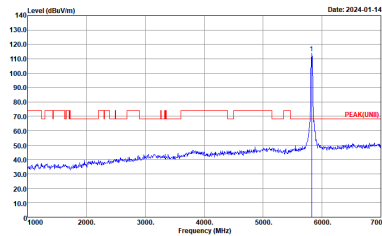
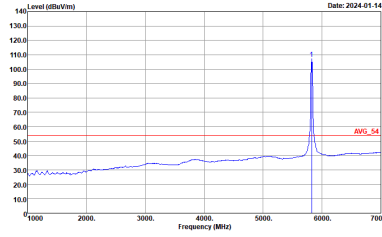


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH157 5785MHz	
6+7	Vertical	Fundamental
Peak	<p>Site : 09CH20-HY Condition : PEAK_BC(84)_16-24 3m 91200_02360_231030 VERTICAL RBW:1000.000kHz VBW:3000.000kHz SWF:Auto</p>	Left blank



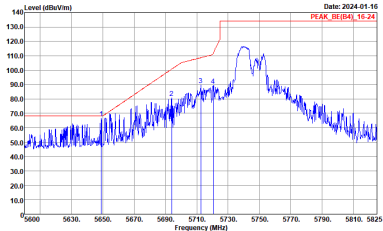
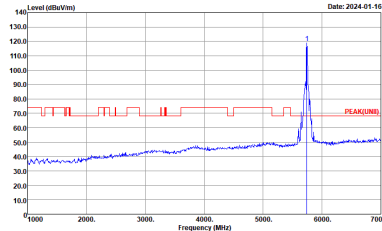
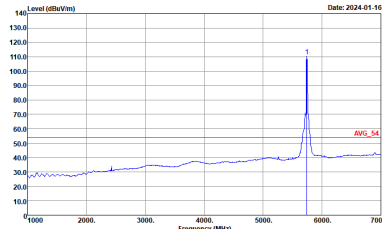
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH165 5825MHz	
6+7	Horizontal	Fundamental
Peak	 <p>Site : 03CH20-HY Condition : PEAK_8E[94]_16-24 3m 91200_02360_231030 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	 <p>Site : 03CH20-HY Condition : PEAK(LINE) 3m 91200_02360_231030 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
Avg	Left blank	 <p>Site : 03CH20-HY Condition : AV6_54 3m 91200_02360_231030 HORIZONTAL : RBW:1000.000KHz VBW:0.270KHz SWT:Auto</p>



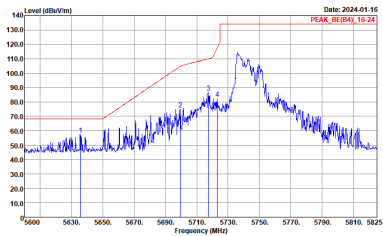
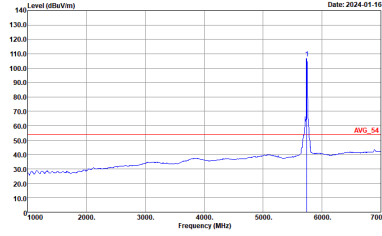
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH165 5825MHz	
6+7	Vertical	Fundamental
Peak	 <p>Site : 03CH20-HY Condition : PEAK_8E[94]_16-24 3m 91200_02360_231030 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	 <p>Site : 03CH20-HY Condition : PEAK(LINE) 3m 91200_02360_231030 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
Avg	Left blank	 <p>Site : 03CH20-HY Condition : AVG_54 3m 91200_02360_231030 VERTICAL : RBW:1000.000KHz VBW:0.270KHz SWT:Auto</p>



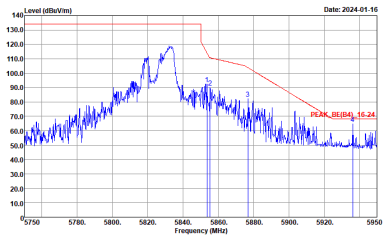
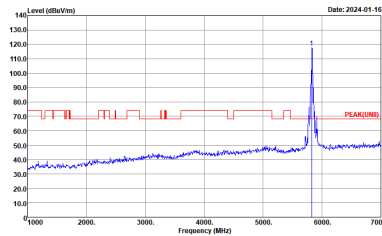
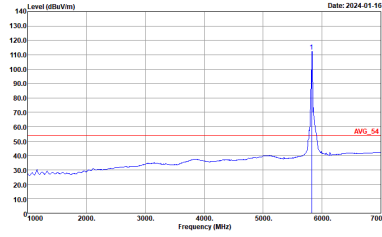
Band 4 5725~5850MHz
WIFI 802.11ax HE20 Partial 106 (Band Edge @ 3m)

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE20 Partial 106/53 CH149 5745MHz	
6+7	Horizontal	Fundamental
Peak	 <p>Site : 03CH20-HY Condition : PEAK_BE(84)_16-24 3m 91200_02360_231030 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	 <p>Site : 03CH20-HY Condition : PEAK(UNII) 3m 91200_02360_231030 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
Avg	Left blank	 <p>Site : 03CH20-HY Condition : AVG_54 3m 91200_02360_231030 HORIZONTAL : RBW:1000.000KHz VBW:0.270KHz SWT:Auto</p>

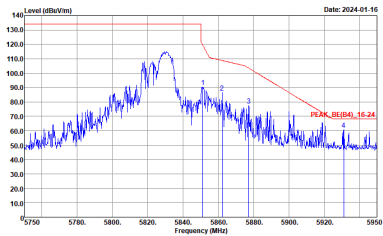
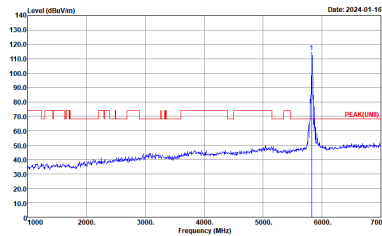
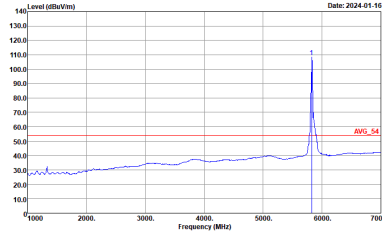


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE20 Partial 106/53 CH149 5745MHz	
6+7	Vertical	Fundamental
Peak	 <p>Site : 03CH20-HY Condition : PEAK_BE(B4)_16-24 3m 91200_02360_231030 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	 <p>Site : 03CH20-HY Condition : PEAK(LINE) 3m 91200_02360_231030 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
Avg	Left blank	 <p>Site : 03CH20-HY Condition : AVG_54 3m 91200_02360_231030 VERTICAL : RBW:1000.000KHz VBW:0.270KHz SWT:Auto</p>



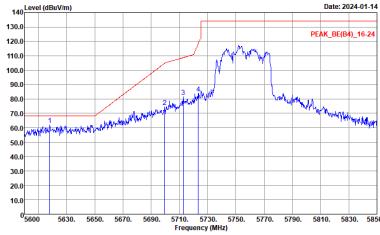
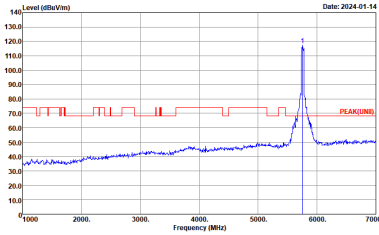
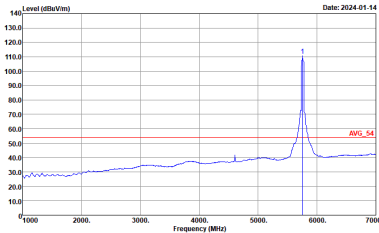
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE20 Partial 106/54 CH165 5825MHz	
6+7	Horizontal	Fundamental
Peak	 <p>Site : 03CH20-HY Condition : PEAK_8E[94]_16-24 3m 91200_02360_231030 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	 <p>Site : 03CH20-HY Condition : PEAK(LINE) 3m 91200_02360_231030 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
Avg	Left blank	 <p>Site : 03CH20-HY Condition : AV6_54 3m 91200_02360_231030 HORIZONTAL : RBW:1000.000KHz VBW:0.270KHz SWT:Auto</p>



WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE20 Partial 106/54 CH165 5825MHz	
6+7	Vertical	Fundamental
Peak	 <p>Site : 03CH20-HY Condition : PEAK_06[94]_16-24 3m 91200_02360_231030 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	 <p>Site : 03CH20-HY Condition : PEAK(LINE) 3m 91200_02360_231030 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
Avg	Left blank	 <p>Site : 03CH20-HY Condition : AV6_54 3m 91200_02360_231030 VERTICAL : RBW:1000.000KHz VBW:0.270KHz SWT:Auto</p>



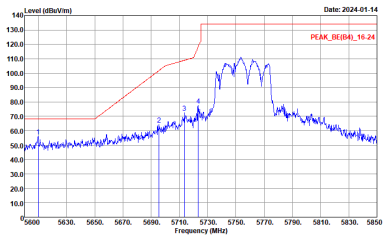
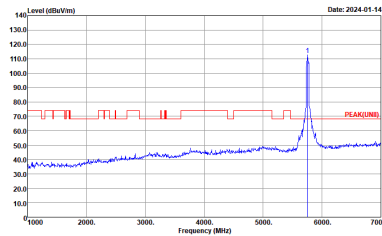
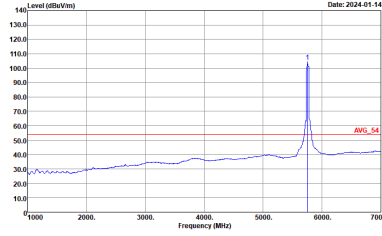
Band 4 5725~5850MHz
WIFI 802.11ax HE40 Full (Band Edge @ 3m)

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH151 5755MHz	
6+7	Horizontal	Fundamental
Peak	 <p>Site : 03CH20-HY Condition : PEAK_BE(84)_16-24 3m 91200_02360_231030 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	 <p>Site : 03CH20-HY Condition : PEAK(UNII) 3m 91200_02360_231030 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
Avg	Left blank	 <p>Site : 03CH20-HY Condition : AVG_54 3m 91200_02360_231030 HORIZONTAL : RBW:1000.000KHz VBW:0.470KHz SWT:Auto</p>

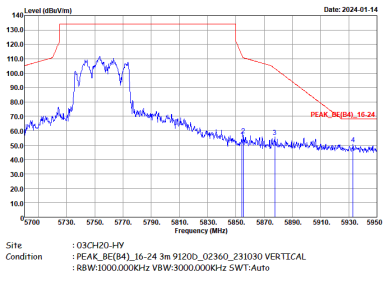


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH151 5755MHz	
6+7	Horizontal	Fundamental
Peak	<p>Site : 09CH20-HY Condition : PEAK_BC[94]_16-24 3m 91200_02360_231030-HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWF:Auto</p>	Left blank

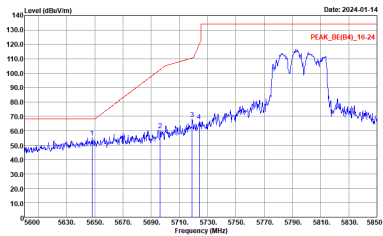
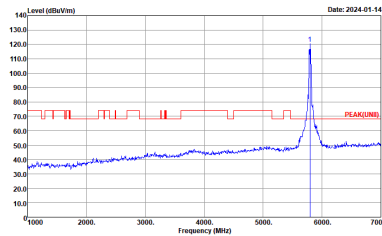
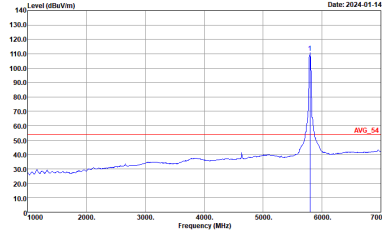


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH151 5755MHz	
6+7	Vertical	Fundamental
Peak	 <p>Site : 03CH20-HY Condition : PEAK_BE(B4)_16-24 3m 91200_02360_231030 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	 <p>Site : 03CH20-HY Condition : PEAK(LINE) 3m 91200_02360_231030 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
Avg	Left blank	 <p>Site : 03CH20-HY Condition : AVG_54 3m 91200_02360_231030 VERTICAL : RBW:1000.000KHz VBW:0.470KHz SWT:Auto</p>



WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH151 5755MHz	
6+7	Vertical	Fundamental
Peak	 <p>Site : 09CH20-HV Condition : PEAK_BC[94]_16-24 3m 91200_02360_231030 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>	Left blank

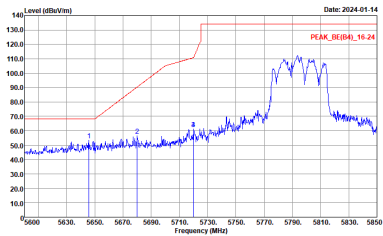
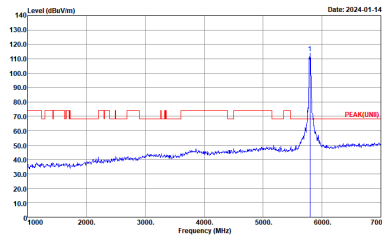
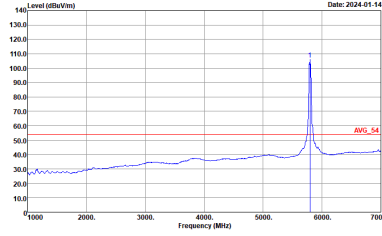


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full HT40 CH159 5795MHz	
6+7	Horizontal	Fundamental
Peak	 <p>Site : 03CH20-HY Condition : PEAK_BE[94]_16-24 3m 91200_02360_231030 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	 <p>Site : 03CH20-HY Condition : PEAK[LIN] 3m 91200_02360_231030 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
Avg	Left blank	
		 <p>Site : 03CH20-HY Condition : AVG_54 3m 91200_02360_231030 HORIZONTAL : RBW:1000.000KHz VBW:0.470KHz SWT:Auto</p>



WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full HT40 CH159 5795MHz	
6+7	Horizontal	Fundamental
Peak	<p>Site : 09CH20-HV Condition : PEAK_BC[94]_16-24 3m 91200_02360_231030-HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWF:Auto</p>	Left blank



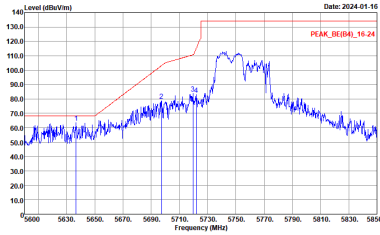
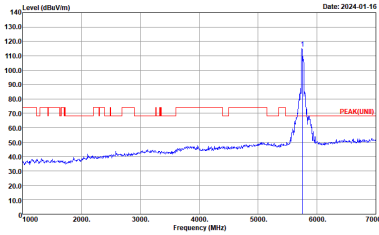
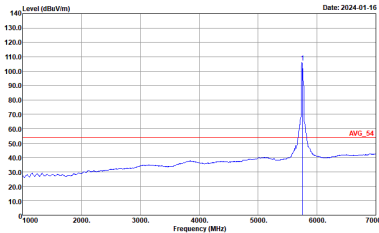
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH159 5795MHz	
6+7	Vertical	Fundamental
Peak	 <p>Site : 03CH20-HY Condition : PEAK_BE[94]_16-24 3m 91200_02360_231030 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	 <p>Site : 03CH20-HY Condition : PEAK[LINE] 3m 91200_02360_231030 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
Avg	Left blank	 <p>Site : 03CH20-HY Condition : AVG_54 3m 91200_02360_231030 VERTICAL : RBW:1000.000KHz VBW:0.470KHz SWT:Auto</p>



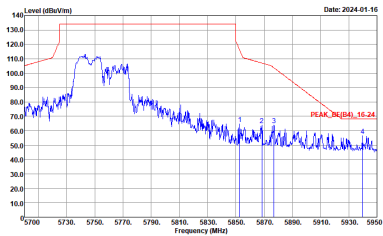
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH159 5795MHz	
6+7	Vertical	Fundamental
Peak	<p>Site : 09CH20-HY Condition : PEAK_BC(84)_16-24 3m 91200_02360_231030 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWF:Auto</p>	Left blank



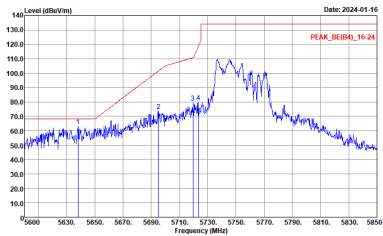
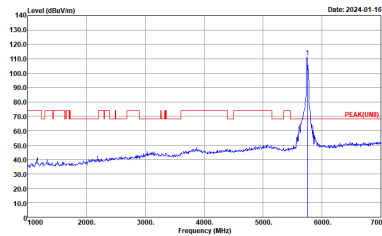
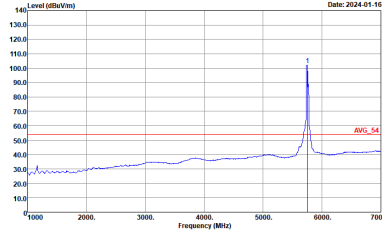
Band 4 5725~5850MHz
WIFI 802.11ax HE40 Partial 242 (Band Edge @ 3m)

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE40 Partial 242/61 CH151 5755MHz	
6+7	Horizontal	Fundamental
Peak	 <p>Site : 03CH20-HY Condition : PEAK_BE(84)_16-24 3m 91200_02360_231030 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	 <p>Site : 03CH20-HY Condition : PEAK(UNII) 3m 91200_02360_231030 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
Avg	Left blank	
		 <p>Site : 03CH20-HY Condition : AVG_54 3m 91200_02360_231030 HORIZONTAL : RBW:1000.000KHz VBW:0.620KHz SWT:Auto</p>

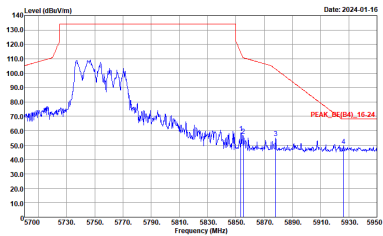


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE40 Partial 242/61 CH151 5755MHz	
6+7	Horizontal	Fundamental
Peak	 <p>Site : 09CH20-HY Condition : PEAK_9C(94)_16-24 3m 91200_02360_231030-HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWF:Auto</p>	Left blank

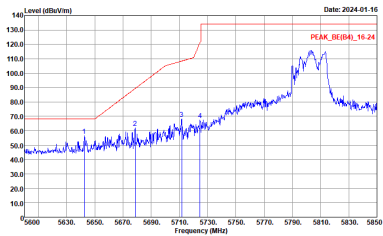
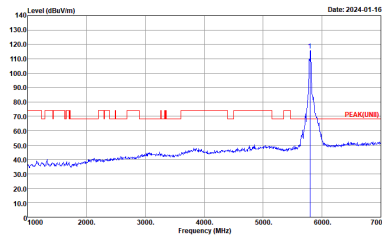
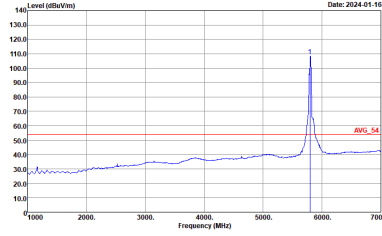


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE40 Partial 242/61 CH151 5755MHz	
6+7	Vertical	Fundamental
Peak	 <p>Site : 03CH20-HY Condition : PEAK_BE(B4)_16-24 3m 91200_02360_231030 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	 <p>Site : 03CH20-HY Condition : PEAK(LINE) 3m 91200_02360_231030 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
Avg	Left blank	 <p>Site : 03CH20-HY Condition : AVG_54 3m 91200_02360_231030 VERTICAL : RBW:1000.000KHz VBW:0.620KHz SWT:Auto</p>



WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE40 Partial 242/61 CH151 5755MHz	
6+7	Vertical	Fundamental
Peak	 <p>Site : 09CH20-HY Condition : PEAK_BC[94]_16-24 3m 91200_02360_231030 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWF:Auto</p>	Left blank

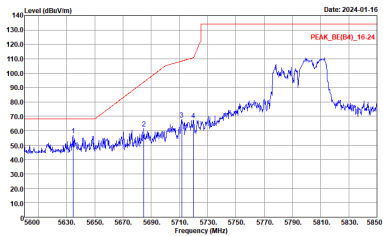
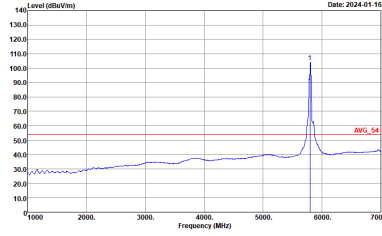


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE40 Partial 242/62 CH159 5795MHz	
6+7	Horizontal	Fundamental
Peak	 <p>Site : 03CH20-HY Condition : PEAK_BE(B4)_16-24 3m 91200_02360_231030 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	 <p>Site : 03CH20-HY Condition : PEAK(LINE) 3m 91200_02360_231030 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
Avg	Left blank	
		 <p>Site : 03CH20-HY Condition : AVG_54 3m 91200_02360_231030 HORIZONTAL : RBW:1000.000KHz VBW:0.620KHz SWT:Auto</p>



WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE40 Partial 242/62 CH159 5795MHz	
6+7	Horizontal	Fundamental
Peak	<p>Site : 09CH20-HV Condition : PEAK_BC(94)_16-24 3m 91200_02360_231030-HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>	Left blank



WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE40 Partial 242/62 CH159 5795MHz	
6+7	Vertical	Fundamental
Peak	 <p>Site : 03CH20-HY Condition : PEAK_BE[94]_16-24 3m 91200_02360_231030 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	 <p>Site : 03CH20-HY Condition : PEAK[LINE] 3m 91200_02360_231030 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
Avg	Left blank	 <p>Site : 03CH20-HY Condition : AVG_54 3m 91200_02360_231030 VERTICAL : RBW:1000.000KHz VBW:0.620KHz SWT:Auto</p>



WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE40 Partial 242/62 CH159 5795MHz	
6+7	Vertical	Fundamental
Peak	<p>Site : 09CH20-HY Condition : PEAK_36(94)_16-24 3m 91200_02360_231030 VERTICAL RBW:1000.000kHz VBW:3000.000kHz SWF:Auto</p>	Left blank



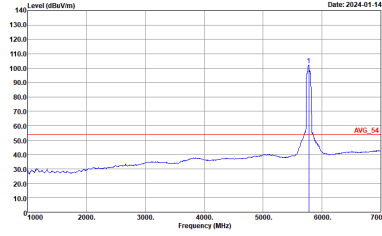
Band 4 5725~5850MHz
WIFI 802.11ax HE80 Full (Band Edge @ 3m)

Table with 4 columns: WIF, ANT, 6+7, and two graph columns (Horizontal, Fundamental). Rows are labeled 'Peak' and 'Avg'. The 'Avg' row contains the text 'Left blank'.

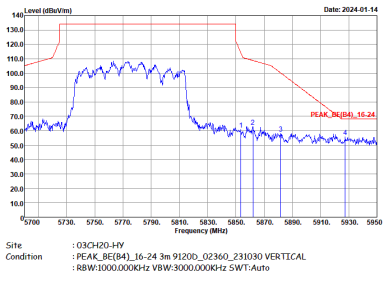


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE80 Full CH155 5775MHz	
6+7	Horizontal	Fundamental
Peak	<p>Site : 09CH20-HV Condition : PEAK_SC(94)_16-24 3m 91200_02360_231030-HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWF:Auto</p>	Left blank



WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE80 Full CH155 5775MHz	
6+7	Vertical	Fundamental
Peak	 <p>Site : 03CH20-HY Condition : PEAK_BE[94]_16-24 3m 91200_02360_231030 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	 <p>Site : 03CH20-HY Condition : PEAK[LIN] 3m 91200_02360_231030 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
Avg	Left blank	 <p>Site : 03CH20-HY Condition : AVG_54 3m 91200_02360_231030 VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto</p>



WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE80 Full CH155 5775MHz	
6+7	Vertical	Fundamental
Peak	 <p>Site : 09CH20-HV Condition : PEAK_BC(94)_16-24 3m 91200_02360_231030 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWF:Auto</p>	Left blank



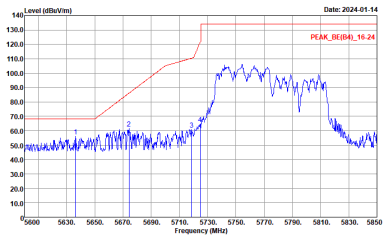
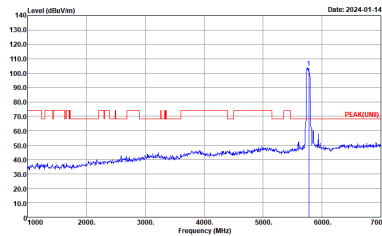
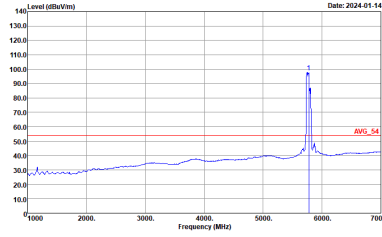
Band 4 5725~5850MHz
WIFI 802.11ax HE80 Partial 484 (Band Edge @ 3m)

Table with 3 columns: WIF, ANT, 6+7. It contains spectral analysis graphs for Peak and Avg measurements, including frequency (MHz) and level (dBuV/m) data. The 'Peak' row shows a peak at 5724 MHz. The 'Avg' row shows a peak at 5754 MHz.

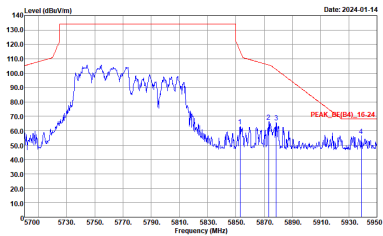


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE80 Partial 484/65 CH155 5775MHz	
6+7	Horizontal	Fundamental
Peak	<p>Site : 09CH20-HV Condition : PEAK_SC(94)_16-24 3m 91200_02360_231030-HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>	Left blank

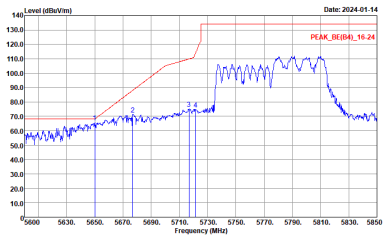
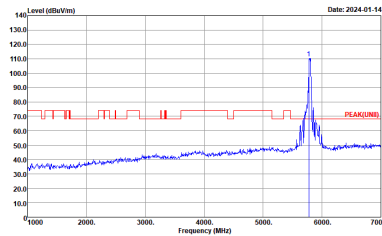
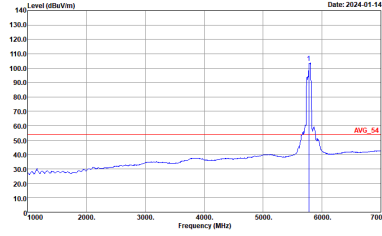


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE80 Partial 484/65 CH155 5775MHz	
6+7	Vertical	Fundamental
Peak	 <p>Site : 03CH20-HY Condition : PEAK_BE[94]_16-24 3m 91200_02360_231030 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	 <p>Site : 03CH20-HY Condition : PEAK[LINE] 3m 91200_02360_231030 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
Avg	Left blank	 <p>Site : 03CH20-HY Condition : AVG_54 3m 91200_02360_231030 VERTICAL : RBW:1000.000KHz VBW:1.200KHz SWT:Auto</p>

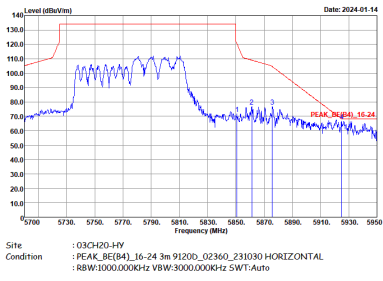


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE80 Partial 484/65 CH155 5775MHz	
6+7	Vertical	Fundamental
Peak	 <p>Site : 09CH20-HV Condition : PEAK_06(94)_16-24 3m 91200_02360_231030 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWF:Auto</p>	Left blank



WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE80 Partial 484/66 CH155 5775MHz	
6+7	Horizontal	Fundamental
Peak	 <p>Site : 03CH20-HY Condition : PEAK_BE[94]_16-24 3m 91200_02360_231030 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	 <p>Site : 03CH20-HY Condition : PEAK[LINE] 3m 91200_02360_231030 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
Avg	Left blank	
		 <p>Site : 03CH20-HY Condition : AV6_54 3m 91200_02360_231030 HORIZONTAL : RBW:1000.000KHz VBW:1200KHz SWT:Auto</p>



WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE80 Partial 484/66 CH155 5775MHz	
6+7	Horizontal	Fundamental
Peak	 <p>Site : 09CH20-HV Condition : PEAK_3E(94)_16-24 3m 91200_02360_231030-HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>	Left blank



WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE80 Partial 484/66 CH155 5775MHz	
6+7	Vertical	Fundamental
Peak	<p>Site : 03CH20-HY Condition : PEAK_BE[94]_16-24 3m 91200_02360_231030 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	<p>Site : 03CH20-HY Condition : PEAK[LINE] 3m 91200_02360_231030 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
Avg	Left blank	<p>Site : 03CH20-HY Condition : AVG_54 3m 91200_02360_231030 VERTICAL : RBW:1000.000KHz VBW:1.200KHz SWT:Auto</p>



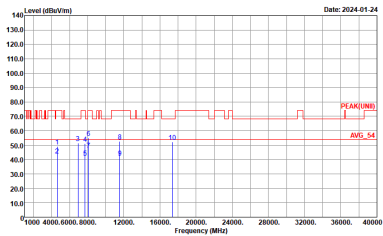
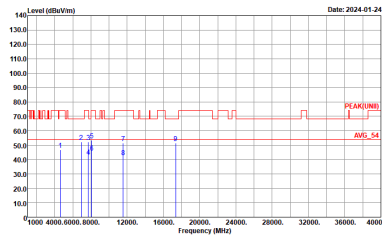
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE80 Partial 484/66 CH155 5775MHz	
6+7	Vertical	Fundamental
Peak	<p>Site : 09CH20-HV Condition : PEAK_06(04)_16-24 3m 91200_02360_231030 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWF:Auto</p>	Left blank



Band 4 - 5725~5850MHz
WIFI 802.11a (Harmonic @ 3m)

WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11a CH149 5745MHz	
6+7	Horizontal	Vertical
Peak Avg.	<p>Site : 03CH20-HY Condition : :PEAK[UNII] 3m 91200_02360_231030 HORIZONTAL -</p>	<p>Site : 03CH20-HY Condition : :PEAK[UNII] 3m 91200_02360_231030 VERTICAL -</p>



WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11a CH157 5785MHz	
6+7	Horizontal	Vertical
<p>Peak</p> <p>Avg.</p>	 <p>Site : 03CH20-HY Condition : PEAK(UNIT) 3m 91200_02360_231030 HORIZONTAL :</p>	 <p>Site : 03CH20-HY Condition : PEAK(UNIT) 3m 91200_02360_231030 VERTICAL :</p>



WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11a CH165 5825MHz	
6+7	Horizontal	Vertical
Peak Avg.	<p>Site : 03CH20-HY Condition : PEAK(UNIT) 3m 91200_02360_231030 HORIZONTAL</p>	<p>Site : 03CH20-HY Condition : PEAK(UNIT) 3m 91200_02360_231030 VERTICAL</p>



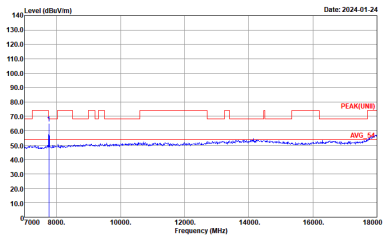
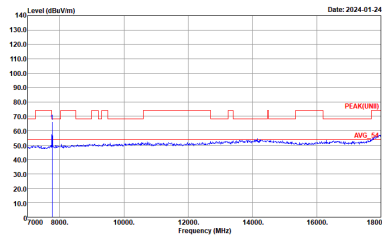
Band 4 5725~5850MHz
WIFI 802.11ax HE20 Full (Harmonic @ 3m)

WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ax HE20 Full CH149 5745MHz	
6+7	Horizontal	Vertical
Peak Avg.	<p>Site : 03CH20-HY Condition : PEAK(UNII) 3m 9120D_02360_231030 HORIZONTAL</p>	<p>Site : 03CH20-HY Condition : PEAK(UNII) 3m 9120D_02360_231030 VERTICAL</p>



WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ax HE20 Full CH157 5785MHz	
6+7	Horizontal	Vertical
Peak Avg.	<p>Site : 03CH20-HY Condition : PEAK(UNIT) 3m 91200_02360_231030 HORIZONTAL :</p>	<p>Site : 03CH20-HY Condition : PEAK(UNIT) 3m 91200_02360_231030 VERTICAL :</p>



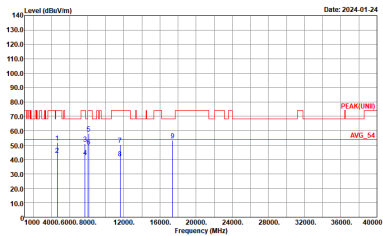
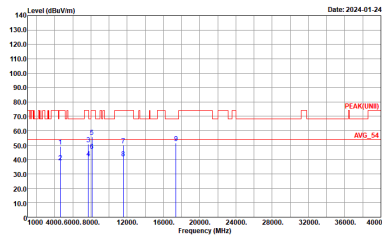
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ax HE20 Full CH165 5825MHz	
6+7	Horizontal	Vertical
<p>Peak</p> <p>Avg.</p>	 <p>Site : 03CH20-HY Condition : PEAK(UNIT) 3m 91200_02360_231030 VERTICAL</p>	 <p>Site : 03CH20-HY Condition : PEAK(UNIT) 3m 91200_02360_231030 VERTICAL</p>



Band 4 5725~5850MHz
WIFI 802.11ax HE40 Full (Harmonic @ 3m)

WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ax HE40 Full CH151 5755MHz	
6+7	Horizontal	Vertical
Peak Avg.	<p>Site : 03CH20-HY Condition : PEAK(UNII) 3m 9120D_02360_231030 HORIZONTAL</p>	<p>Site : 03CH20-HY Condition : PEAK(UNII) 3m 9120D_02360_231030 VERTICAL</p>



WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ax HE40 Full CH159 5795MHz	
6+7	Horizontal	Vertical
<p>Peak</p> <p>Avg.</p>	 <p>Site : 03CH20-HY Condition : PEAK(UNIT) 3m 91200_02360_231030 HORIZONTAL :</p>	 <p>Site : 03CH20-HY Condition : PEAK(UNIT) 3m 91200_02360_231030 VERTICAL :</p>



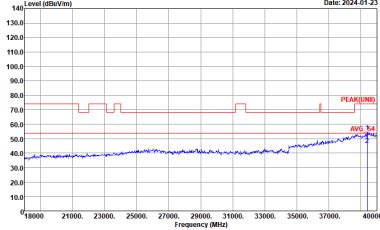
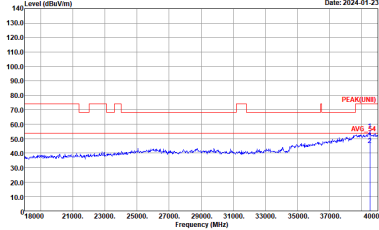
Band 4 5725~5850MHz
WIFI 802.11ax HE80 Full (Harmonic @ 3m)

WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ax HE80 Full CH155 5775MHz	
6+7	Horizontal	Vertical
Peak Avg.	<p>Site : 03CH20-HY Condition : PEAK(UNII) 3m 9120D_02360_231030 HORIZONTAL</p>	<p>Site : 03CH20-HY Condition : PEAK(UNII) 3m 9120D_02360_231030 VERTICAL</p>



Emission above 18GHz

5GHz WIFI 802.11ax HE20 Full (SHF @ 1m)

WIFI	5GHz WIFI	
ANT	802.11ax HE20 Full SHF	
6+7	Horizontal	Vertical
Peak Avg.	 <p>Site : 03CH20-HY Condition : PEAK(UNIT) 1m SHF_1223_230710 HORIZONTAL</p>	 <p>Site : 03CH20-HY Condition : PEAK(UNIT) 1m SHF_1223_230710 VERTICAL</p>



Emission below 1GHz
5GHz WIFI 802.11ax HE20 Full (LF @ 3m)

WIFI	5GHz WIFI	
ANT	802.11ax HE20 Full LF	
6+7	Horizontal	Vertical
QP / Peak	<p>Site : 03CH20-HY Condition : QP 3m LF_55606_231020_200 HORIZONTAL</p>	<p>Site : 03CH20-HY Condition : QP 3m LF_55606_231020_200 VERTICAL</p>



Appendix E. Duty Cycle Plots

Antenna	Band	Duty Cycle(%)	T(us)	1/T(kHz)	VBW Setting
6+7	802.11a	86.13	1720	0.58	620Hz
6+7	5GHz 802.11ax HE20 Full RU	85.76	3705	0.27	270Hz
6+7	5GHz 802.11ax HE20 106 RU	88.20	3900	0.26	270Hz
6+7	5GHz 802.11ax HE40 Full RU	85.71	2220	0.45	470Hz
6+7	5GHz 802.11ax HE40 242 RU	88.19	1740	0.57	620Hz
6+7	5GHz 802.11ax HE80 Full RU	85.64	930	1.08	1.1Hz
6+7	5GHz 802.11ax HE80 484 RU	85.55	906	1.10	1.2kHz

MIMO <Ant. 6+7>

