



FCC RADIO TEST REPORT

FCC ID : UZ7KC50E15
Equipment : KC50E15 Kiosk Computer
Brand Name : Zebra
Model Name : KC50E15
Applicant : Zebra Technologies Corporation
3 Overlook Point, Lincolnshire, IL 60069 USA
Manufacturer : Zebra Technologies Corporation
3 Overlook Point, Lincolnshire, IL 60069 USA
Standard : FCC Part 15 Subpart E §15.407

The product was received on May 13, 2024 and testing was performed from May 13, 2024 to Aug. 30, 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.

Approved by: Louis Wu

Sporton International Inc. Wensan Laboratory

No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.)



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History of this test report

Report No.	Version	Description	Issue Date
FR470109E	01	Initial issue of report	Sep. 12, 2024



Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.1	15.403	6dB & 26dB Bandwidth	Pass	-
3.1	2.1049	99% Occupied Bandwidth	Pass	-
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	1.83 dB under the limit at 5648.00 MHz
3.5	15.207	AC Conducted Emission	Pass	8.78 dB under the limit at 13.56 MHz
3.6	15.203	Antenna Requirement	Pass	-

Conformity Assessment Condition:

1. ECR inquiry for data referencing from UZ7KC50A15 has been approved by FCC. The ECR inquiry and the associated document are submitted in the confidential exhibit.
2. UZ7KC50E15 is different from FCC ID: UZ7KC50A15 (Reference model), in the following:
 - The only difference between UZ7KC50E15 and UZ7KC50A15 are the main board schematics, key components of BOM and NFC software and hardware.
3. All the test results are referenced from UZ7KC50A15 (Sporton Test Report FR450111F), and spot check results to justify data referencing is presented in the Appendix G.
4. 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/manufacture who shall bear all the risks of non-compliance that may potentially occur if measurement uncertainty is taken into account.
5. 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: Yun Huang**Report Producer: Mila Chen**



1 General Description

1.1 Product Feature of Equipment Under Test

Product Feature	
Equipment	KC50E15 Kiosk Computer
Brand Name	Zebra
Model Name	KC50E15
FCC ID	UZ7KC50E15
Supports Radios application	WLAN 11a/b/g/n HT20/HT40 WLAN 11ac VHT20/VHT40/VHT80/VHT160 WLAN 11ax HE20/HE40/HE80/HE160 Bluetooth BR/EDR/LE

1.2 EUT Information (Referenced Model)

Product Feature	
Equipment	KC50A15 Kiosk Computer
Brand Name	Zebra
Model Name	KC50A15
FCC ID	UZ7KC50A15
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	REV:PT
SW Version	13-29-29.00-TG-U00-STD-ATH-04
OS Version	Android 13
MFD	11MAY24
EUT Stage	Identical Prototype

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

Specification of Accessories				
AC Adapter	Brand Name	ZEBRA	Model Name	PS000088A01
USB C-C Cable	Brand Name	ZEBRA	Part Number	CBL-EC5X-USBC3A-01
Stand	Brand Name	ZEBRA	Part Number	3PTY-SC-2000-CF2-01
Printer	Brand Name	ZEBRA	Model Name	ZD230t
2nd display	Brand Name	ZEBRA	Model Name	TD50-15F00
Edge scanner	Brand Name	ZEBRA	Part Number	ZFLX-SCNR-E00
Edge LED Light Bar	Brand Name	ZEBRA	Part Number	ZFLX-LTBAR-200
USB Cable	Brand Name	ZEBRA	Part Number	300283-002

1.3 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. 1+2> 802.11a: 23.81 dBm / 0.2404 W 802.11n HT20: 23.56 dBm / 0.2270 W 802.11n HT40: 23.61 dBm / 0.2296 W 802.11ac VHT20: 23.66 dBm / 0.2323 W 802.11ac VHT40: 23.71 dBm / 0.2350 W 802.11ac VHT80: 22.71 dBm / 0.1866 W 802.11ax HE20: 23.76 dBm / 0.2377 W 802.11ax HE40: 23.81 dBm / 0.2404 W 802.11ax HE80: 22.81 dBm / 0.1910 W		
99% Occupied Bandwidth	<Ant. 1> 802.11a: 16.78 MHz 802.11ac VHT20: 17.98 MHz 802.11ac VHT40: 36.86 MHz 802.11ac VHT80: 75.52 MHz 802.11ax HE20: 19.23 MHz 802.11ax HE40: 38.26 MHz 802.11ax HE80: 77.32 MHz <Ant. 2> 802.11a: 16.83 MHz 802.11ac VHT20: 17.88 MHz 802.11ac VHT40: 36.96 MHz 802.11ac VHT80: 75.52 MHz 802.11ax HE20: 19.18 MHz 802.11ax HE40: 38.36 MHz 802.11ax HE80: 77.44 MHz		
Antenna Type / Gain	<Ant. 1> : Coupling Antenna with gain 3.89 dBi <Ant. 2> : PIFA Antenna with gain 2.90 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		Ant. 1	Ant. 2
	802.11a/n/ac/ax MIMO	V	V
	802.11ax TXBF	V	V

Remark:

1. MIMO Ant. 1+2 Directional Gain is a calculated result from MIMO Ant. 1 and MIMO Ant. 2. The formula used in calculation is documented in section 1.2.1.
2. Power of MIMO Ant. 1 + Ant. 2 is a calculated result from sum of the power MIMO Ant. 1 and MIMO Ant. 2.
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.

1.3.1 Antenna Directional Gain

<For CDD Mode>

Follows FCC KDB 662911 D01 Multiple Transmitter Output v02r01 F2)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 = $10 \cdot \log[(10^{G_1/20} + 10^{G_2/20} + \dots + 10^{G_N/20})^2 / N_{ANT}]$ dBi

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

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

			DG for	DG for	Power Limit	PSD Limit
	Ant 1	Ant 2	Power	PSD	Reduction	Reduction
	(dBi)	(dBi)	(dBi)	(dBi)	(dB)	(dB)
Band IV	3.89	2.90	3.89	6.42	0.00	0.42

Calculation example:

If a device has two antenna, $G_{ANT1}=3.89$ dBi; $G_{ANT2}=2.90$ dBi

Directional gain of power measurement = $\max(3.89, 2.90) + 0 = 3.89$ dBi

Directional gain of PSD derived from formula which is

$10 \times \log \{ \{ [10^{(3.89 \text{ dBi} / 20)} + 10^{(2.90 \text{ dBi} / 20)}]^2 \} / 2 \}$

= 6.42 dBi

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

<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.

			DG	DG	Power	PSD
			for	for	Limit	Limit
	Ant 6	Ant 7	Power	PSD	Reduction	Reduction
	(dBi)	(dBi)	(dBi)	(dBi)	(dB)	(dB)
Band IV	3.89	2.90	6.42	6.42	0.42	0.42

Calculation example:

Directional gain is derived from formula which is

$$10 \times \log \{ \{ [10^{\wedge} (3.89 \text{ dBi} / 20) + 10^{\wedge} (2.90 \text{ dBi} / 20)]^{\wedge} 2 \} / 2 \}$$

$$= 6.42 \text{ dBi}$$

$$\text{Power and PSD limit reduction} = \text{Composite gain} - 6\text{dBi}, (\text{min} = 0)$$

1.4 Modification of EUT

No modifications made to the EUT during the testing.



1.5 Testing Location

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, CO07-HY, 03CH20-HY

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

FCC designation No.: TW3786

1.6 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 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. 2022.

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.

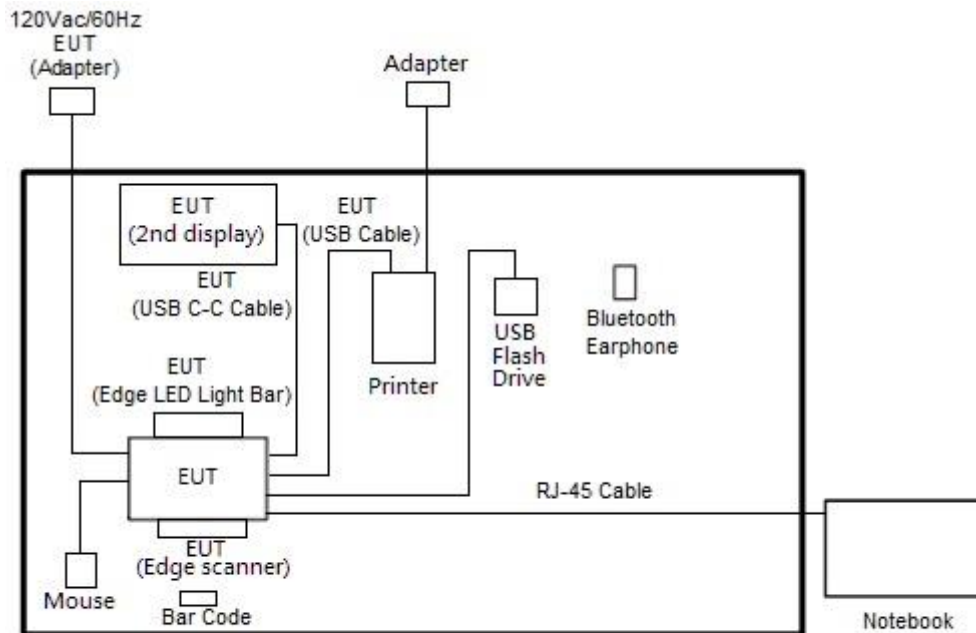
Test Cases	
AC Conducted Emission	Mode 1 : WLAN (5GHz) Link + Bluetooth Link + Scan Bar Code + USB C-C Cable Display with 2nd display + USB Cable with Printer + AC Adapter + LAN Link with Notebook + Edge USB-C with (Edge scanner + (Data Link with USB Flash Drive (USB Flash Drive to SD Card)) + Edge LED Light Bar + Mouse) + Stand
Remark: Data Link with USB Flash Drive means data application transferred mode between EUT and USB Flash Drive.	

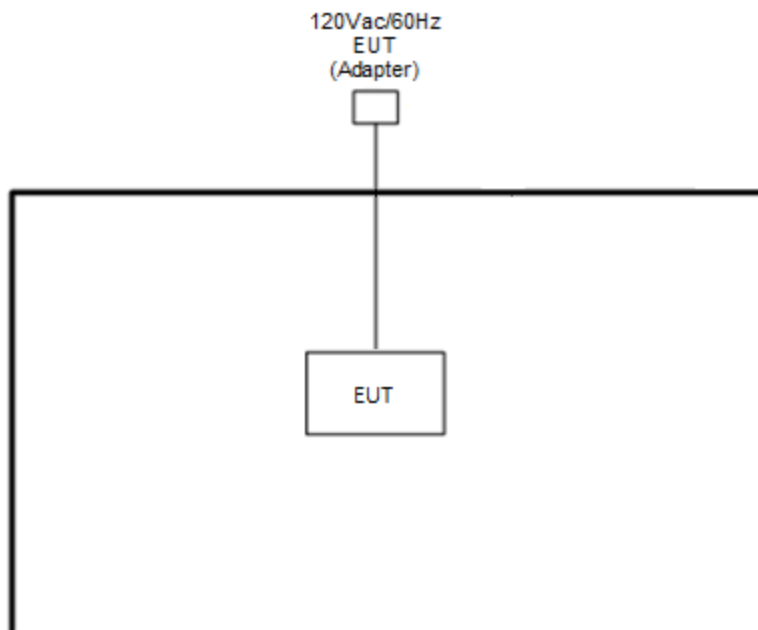
Ch. #		Band IV : 5725-5850 MHz			
		802.11a	802.11ax HE20	802.11ax HE40	802.11ac VHT80
L	Low	149	149	151	-
M	Middle	157	157	-	155
H	High	165	165	159	-

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 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	PY700A2029	N/A	N/A
2.	WLAN AP	ASUS	RT-AC52	MSQ-RTAC4A00	N/A	Unshielded,1.8m
3.	Notebook	DELL	Latitude 3400	FCC DoC	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
4.	Mouse	ACER	MOANUOA	FCC DoC	Shielded, 1.7m	N/A
5.	Bar Code	N/A	N/A	N/A	N/A	N/A
6.	USB Flash Drive	SanDisk	E4BDC	FCC DoC	N/A	N/A
7.	SD Card	SanDisk	MicroSD HC	FCC DoC	N/A	N/A



2.5 EUT Operation Test Setup

The RF test items, utility "QRCT Version 4.0.211.0" 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.

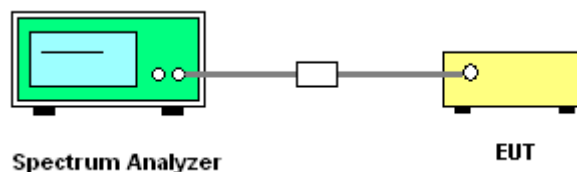
3.1.2 Measuring Instruments

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.

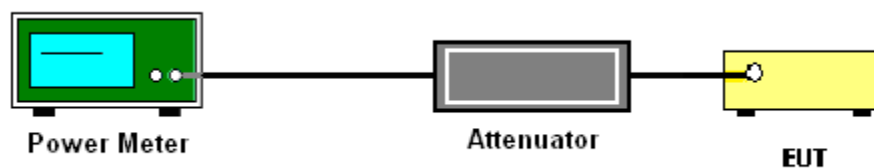
3.2.3 Test Procedures

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

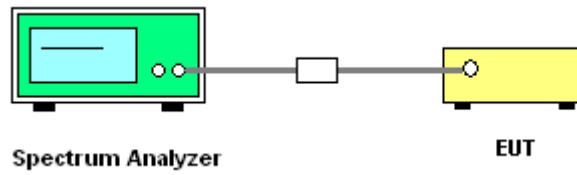
(trace averaging across on and off times of the EUT transmissions, followed by duty cycle correction).

- 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 $10 \log(N_{\text{ANT}})$ 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 $10 \log(N_{\text{ANT}})$ dB is added to each spectrum value before comparing to the emission limit. The addition of $10 \log(N_{\text{ANT}})$ dB serves to apportion the emission limit among the N_{ANT} outputs so that each output is permitted to contribute no more than $1/N_{\text{ANT}}^{\text{th}}$ 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.

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

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.

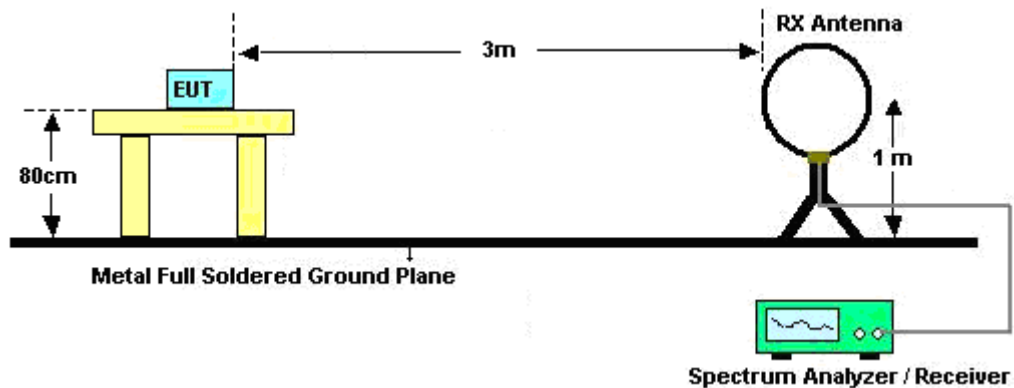
3.4.3 Test Procedures

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.

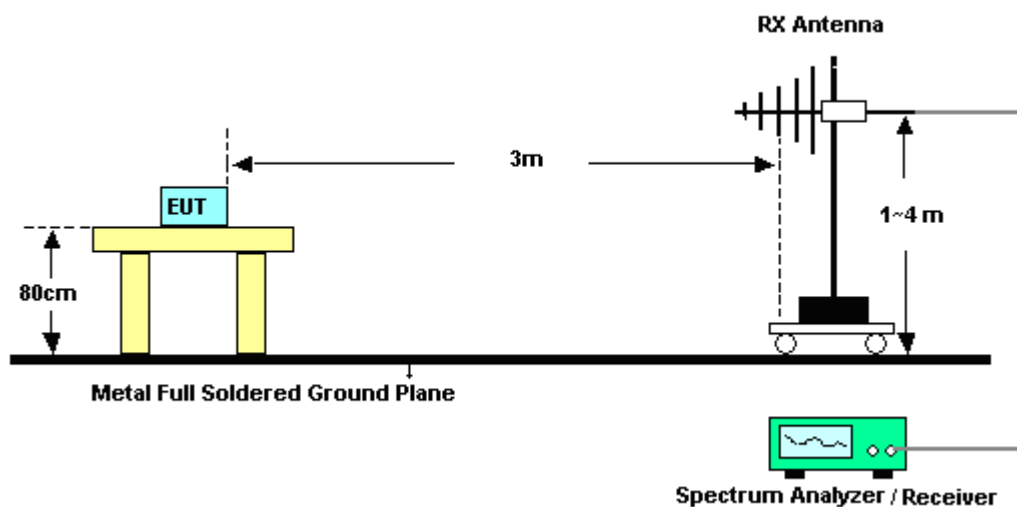
6. Radiated testing below 1 GHz is performed by adjusting the antenna tower from 1 m to 4 m and by rotating the turn table from 0 degree to 360 degrees to find the peak maximum hold reading. When there is no suspected emission found and the emission level is with at least 6 dB margin against QP limit 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

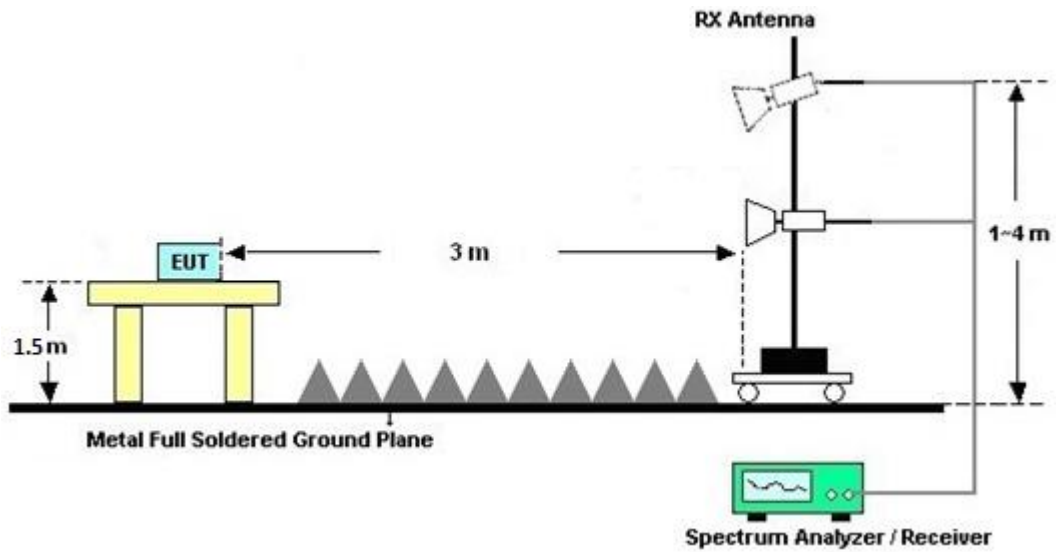
For radiated emissions below 30MHz



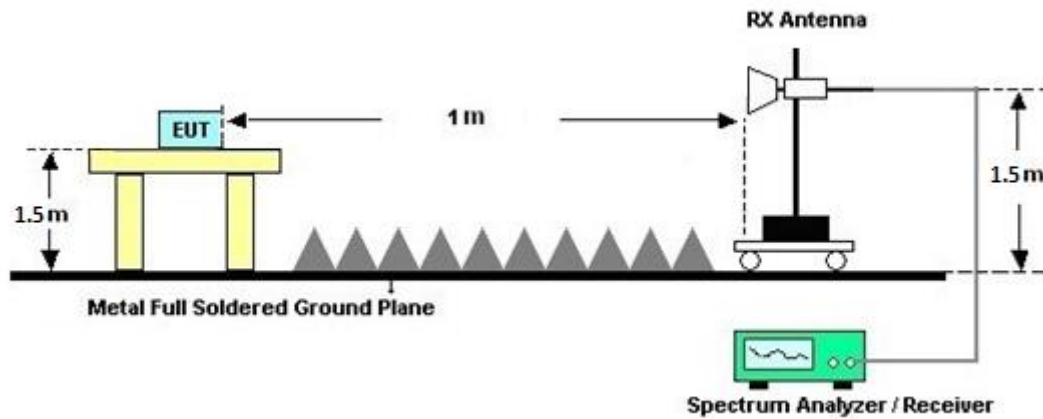
For radiated emissions from 30MHz to 1GHz



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.

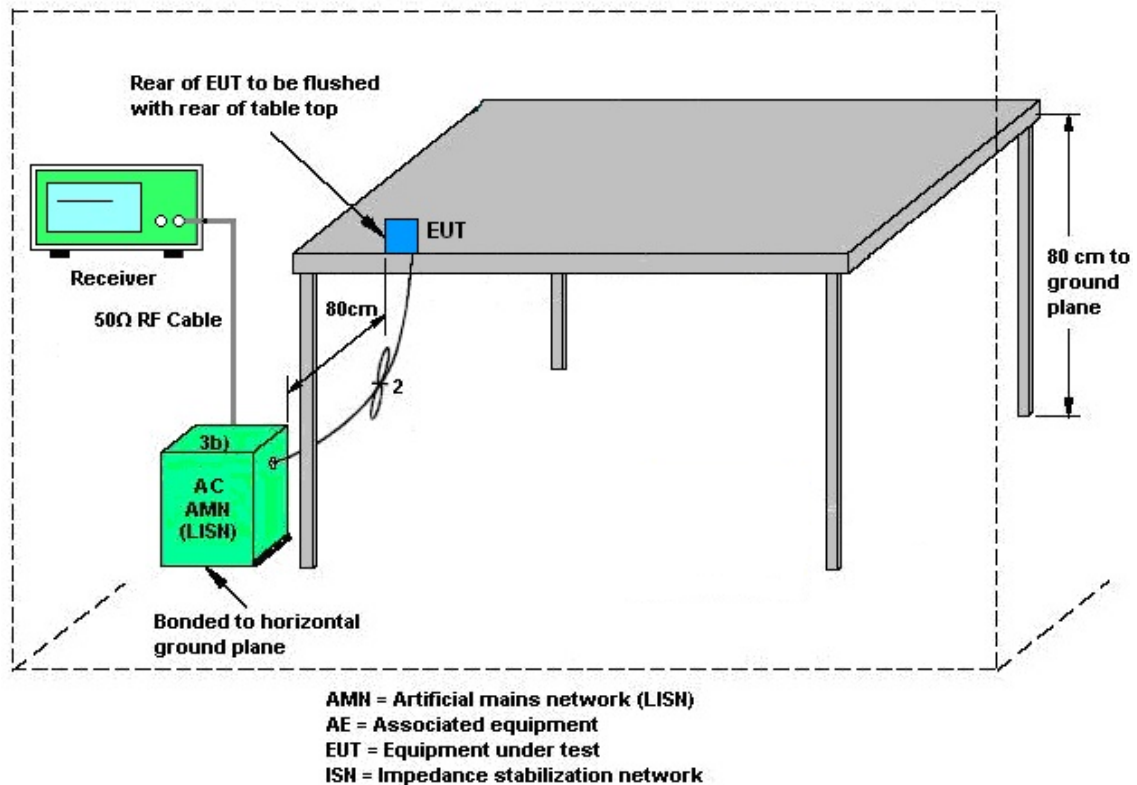
3.5.2 Measuring Instruments

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
Hygrometer	TECPEL	DTM-303A	TP201996	N/A	Nov. 07, 2023	May 13, 2024~ Jun. 29, 2024	Nov. 06, 2024	Conducted (TH05-HY)
Switch Control Mainframe	Burgeon	ETF-058	EC1300485 (BOX4)	N/A	Apr. 08, 2024	May 13, 2024~ Jun. 29, 2024	Apr. 07, 2025	Conducted (TH05-HY)
Signal Analyzer	Rohde & Schwarz	FSV40	101564	10Hz ~ 40GHz	Sep. 12, 2023	May 13, 2024~ Jun. 29, 2024	Sep. 11, 2024	Conducted (TH05-HY)
Software	Sporton	BTWIFI_Final_v ersion_240411	N/A	Conducted Other Test Item	N/A	May 13, 2024~ Jun. 29, 2024	N/A	Conducted (TH05-HY)
EMI Test Receiver	Keysight	N9038A(MXE)	MY54130085	N/A	Oct. 06, 2023	May 14, 2024~ Jul. 10, 2024	Oct. 05, 2024	Radiation (03CH20-HY)
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100488	9 kHz~30 MHz	Sep. 12, 2023	May 14, 2024~ Jul. 10, 2024	Sep. 11, 2024	Radiation (03CH20-HY)
Preamplifier	EMEC	EM18G40G	060871	18GHz~40GHz	Aug. 30, 2023	May 14, 2024~ Jul. 10, 2024	Aug. 29, 2024	Radiation (03CH20-HY)
Controller	ChainTek	3000-1	N/A	Control Turn table & Ant Mast	N/A	May 14, 2024~ Jul. 10, 2024	N/A	Radiation (03CH20-HY)
Antenna Mast	ChainTek	MBS-520-1	N/A	1m~4m	N/A	May 14, 2024~ Jul. 10, 2024	N/A	Radiation (03CH20-HY)
Turn Table	ChainTek	T-200-S-1	N/A	0~360 Degree	N/A	May 14, 2024~ Jul. 10, 2024	N/A	Radiation (03CH20-HY)
Signal Analyzer	Keysight	N9010B	MY60240520	N/A	Dec. 12, 2023	May 14, 2024~ Jul. 10, 2024	Dec. 11, 2024	Radiation (03CH20-HY)
Bilog Antenna	TESEQ	CBL 6111D&00802N 1D01N-06	55606 & 08	30MHz~1GHz	Oct. 20, 2023	May 14, 2024~ Jul. 10, 2024	Oct. 19, 2024	Radiation (03CH20-HY)
Horn Antenna	SCHWARZBE CK	BBHA 9120 D	02360	1GHz-18GHz	Oct. 30, 2023	May 14, 2024~ Jul. 10, 2024	Oct. 29, 2024	Radiation (03CH20-HY)
SHF-EHF Horn Antenna	SCHWARZBE CK	BBHA 9170	BBHA9170576	18GHz-40GHz	May 15, 2023	May 14, 2024~ Jul. 10, 2024	May 14, 2024	Radiation (03CH20-HY)
SHF-EHF Horn Antenna	SCHWARZBE CK	BBHA 9170	BBHA9170576	18GHz-40GHz	May 18, 2024	May 14, 2024~ Jul. 10, 2024	May 17, 2025	Radiation (03CH20-HY)
SHF-EHF Horn Antenna	SCHWARZBE CK	BBHA 9170	00993	18GHz-40GHz	Nov. 24, 2023	May 14, 2024~ Jul. 10, 2024	Nov. 23, 2024	Radiation (03CH20-HY)
Preamplifier	COM-POWER	PAM-103	18020201	1MHz-1000MHz	Jan. 01, 2024	May 14, 2024~ Jul. 10, 2024	Dec. 31, 2024	Radiation (03CH20-HY)
Amplifier	EMCI	EMC118A45SE	980792	N/A	Nov. 13, 2023	May 14, 2024~ Jul. 10, 2024	Nov. 12, 2024	Radiation (03CH20-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	519229/2,8040 15/2,804027/2	N/A	Jan. 17, 2024	May 14, 2024~ Jul. 10, 2024	Jan. 16, 2025	Radiation (03CH20-HY)
Hygrometer	TECPEL	DTM-303A	TP211382	N/A	Mar. 27, 2024	May 14, 2024~ Jul. 10, 2024	Mar. 26, 2025	Radiation (03CH20-HY)
Software	Audix	N/A	RK-002156	N/A	N/A	May 14, 2024~ Jul. 10, 2024	N/A	Radiation (03CH20-HY)
AC Power Source	ACPOWER	AFC-11003G	F317040033	N/A	N/A	Jun. 26, 2024	N/A	Conduction (CO07-HY)
Software	Rohde & Schwarz	EMC32 V10.30	N/A	N/A	N/A	Jun. 26, 2024	N/A	Conduction (CO07-HY)
Pulse Limiter	SCHWARZBE CK	VTSD 9561-F N	9561-F N00373	9kHz-200MHz	Oct. 20, 2023	Jun. 26, 2024	Oct. 19, 2024	Conduction (CO07-HY)
RF Cable	HUBER + SUHNER	RG 214/U	1358175	9kHz~30MHz	Mar. 14, 2024	Jun. 26, 2024	Mar. 13, 2025	Conduction (CO07-HY)
Two-Line V-Network	TESEQ	NNB 51	45051	N/A	Mar. 10, 2024	Jun. 26, 2024	Mar. 09, 2025	Conduction (CO07-HY)
Four-Line V-Network	TESEQ	NNB 52	36122	N/A	Mar. 07, 2024	Jun. 26, 2024	Mar. 06, 2025	Conduction (CO07-HY)
EMI Test Receiver	Rohde & Schwarz	ESR3	102317	9kHz~3.6GHz	Sep. 20, 2023	Jun. 26, 2024	Sep. 19, 2024	Conduction (CO07-HY)



5 Measurement Uncertainty

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	3.44 dB
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Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	6.40 dB
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Uncertainty of Radiated Emission Measurement (1000 MHz ~ 6000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.50 dB
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Uncertainty of Radiated Emission Measurement (6000 MHz ~ 18000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.60 dB
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Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.40 dB
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Appendix A. Test Result of Conducted Test Items

Test Engineer:	Sylvia Li and Kevin Xiao	Temperature:	21~25	°C
Test Date:	2024/05/13~2024/06/29	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 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2		
11a	6Mbps	2	149	5745	16.78	16.63	26.43	25.89	16.07	16.35	0.5	Pass
11a	6Mbps	2	157	5785	16.58	16.83	23.43	30.45	16.31	16.33	0.5	Pass
11a	6Mbps	2	165	5825	16.73	16.68	25.06	29.94	16.31	16.32	0.5	Pass
VHT20	MCS0	2	149	5745	17.98	17.68	29.38	21.95	17.31	17.57	0.5	Pass
VHT20	MCS0	2	157	5785	17.73	17.88	24.88	28.12	17.15	17.57	0.5	Pass
VHT20	MCS0	2	165	5825	17.83	17.88	27.60	27.94	17.58	17.54	0.5	Pass
VHT40	MCS0	2	151	5755	36.86	36.56	62.43	61.15	36.06	35.94	0.5	Pass
VHT40	MCS0	2	159	5795	36.66	36.96	63.36	70.96	35.95	36.34	0.5	Pass
VHT80	MCS0	2	155	5775	75.52	75.52	83.90	82.66	75.25	75.28	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 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	
11a	6Mbps	2	149	5745	20.50	20.00	23.27	30.00		3.89		Pass
11a	6Mbps	2	157	5785	20.80	20.80	23.81	30.00		3.89		Pass
11a	6Mbps	2	165	5825	20.90	20.40	23.67	30.00		3.89		Pass
HT20	MCS0	2	149	5745	20.70	20.30	23.51	30.00		3.89		Pass
HT20	MCS0	2	157	5785	20.60	20.50	23.56	30.00		3.89		Pass
HT20	MCS0	2	165	5825	20.60	20.10	23.37	30.00		3.89		Pass
HT40	MCS0	2	151	5755	20.40	19.70	23.07	30.00		3.89		Pass
HT40	MCS0	2	159	5795	20.70	20.50	23.61	30.00		3.89		Pass
VHT20	MCS0	2	149	5745	20.80	20.40	23.61	30.00		3.89		Pass
VHT20	MCS0	2	157	5785	20.70	20.60	23.66	30.00		3.89		Pass
VHT20	MCS0	2	165	5825	20.70	20.20	23.47	30.00		3.89		Pass
VHT40	MCS0	2	151	5755	20.50	19.80	23.17	30.00		3.89		Pass
VHT40	MCS0	2	159	5795	20.80	20.60	23.71	30.00		3.89		Pass
VHT80	MCS0	2	155	5775	19.70	19.70	22.71	30.00		3.89		Pass

TEST RESULTS DATA
Power Spectral Density

U-NII-3 MIMO														
Mod.	Data Rate	NTx	CH.	Freq. (MHz)	10log (500kHz /RBW) Factor (dB)		Average Power Density with Duty Factor (dBm/500kHz)			Average PSD Limit (dBm/500kHz)		DG (dBi)		Pass /Fail
					Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	
11a	6Mbps	2	149	5745	2.22		5.51	4.84	8.52	29.58		6.42		Pass
11a	6Mbps	2	157	5785	2.22		5.85	5.63	8.86	29.58		6.42		Pass
11a	6Mbps	2	165	5825	2.22		6.22	5.68	9.23	29.58		6.42		Pass
VHT20	MCS0	2	149	5745	2.22		5.89	5.04	8.90	29.58		6.42		Pass
VHT20	MCS0	2	157	5785	2.22		5.47	5.16	8.48	29.58		6.42		Pass
VHT20	MCS0	2	165	5825	2.22		5.83	5.17	8.84	29.58		6.42		Pass
VHT40	MCS0	2	151	5755	2.22		2.30	1.32	5.31	29.58		6.42		Pass
VHT40	MCS0	2	159	5795	2.22		2.87	2.53	5.88	29.58		6.42		Pass
VHT80	MCS0	2	155	5775	2.22		-1.75	-2.07	1.26	29.58		6.42		Pass

Note: PSD Sum = Max PSD(Ant. 1, Ant. 2) + 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 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2		
HE20	MCS0	2	149	5745	Full	19.23	19.03	33.56	26.59	18.74	18.84	0.5	Pass
HE20	MCS0	2	157	5785	Full	19.03	19.18	25.91	32.63	18.66	18.81	0.5	Pass
HE20	MCS0	2	165	5825	Full	19.13	19.13	27.24	31.98	18.94	18.75	0.5	Pass
HE40	MCS0	2	151	5755	Full	38.26	38.26	57.23	53.26	37.78	37.53	0.5	Pass
HE40	MCS0	2	159	5795	Full	38.16	38.36	49.12	66.42	37.92	37.90	0.5	Pass
HE80	MCS0	2	155	5775	Full	77.32	77.44	82.69	85.12	77.58	77.57	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 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	
HE20	MCS0	2	149	5745	Full	20.90	20.50	23.71	30.00		3.89		Pass
HE20	MCS0	2	149	5745	26/0	11.40	10.90	14.17	30.00		3.89		Pass
HE20	MCS0	2	149	5745	52/37	14.80	14.30	17.57	30.00		3.89		Pass
HE20	MCS0	2	149	5745	106/53	18.00	17.60	20.81	30.00		3.89		Pass
HE20	MCS0	2	157	5785	Full	20.80	20.70	23.76	30.00		3.89		Pass
HE20	MCS0	2	157	5785	26/4	11.70	11.30	14.51	30.00		3.89		Pass
HE20	MCS0	2	157	5785	52/38	14.70	14.50	17.61	30.00		3.89		Pass
HE20	MCS0	2	157	5785	106/53	17.40	17.20	20.31	30.00		3.89		Pass
HE20	MCS0	2	165	5825	Full	20.80	20.30	23.57	30.00		3.89		Pass
HE20	MCS0	2	165	5825	26/8	11.30	11.30	14.31	30.00		3.89		Pass
HE20	MCS0	2	165	5825	52/40	13.80	13.60	16.71	30.00		3.89		Pass
HE20	MCS0	2	165	5825	106/54	16.30	16.20	19.26	30.00		3.89		Pass
HE40	MCS0	2	151	5755	Full	20.60	19.90	23.27	30.00		3.89		Pass
HE40	MCS0	2	151	5755	242/61	17.50	17.20	20.36	30.00		3.89		Pass
HE40	MCS0	2	159	5795	Full	20.90	20.70	23.81	30.00		3.89		Pass
HE40	MCS0	2	159	5795	242/62	17.10	17.50	20.31	30.00		3.89		Pass
HE80	MCS0	2	155	5775	Full	19.80	19.80	22.81	30.00		3.89		Pass
HE80	MCS0	2	155	5775	484/65	16.50	16.50	19.51	30.00		3.89		Pass
HE80	MCS0	2	155	5775	484/66	16.30	16.40	19.36	30.00		3.89		Pass

TEST RESULTS DATA
Power Spectral Density

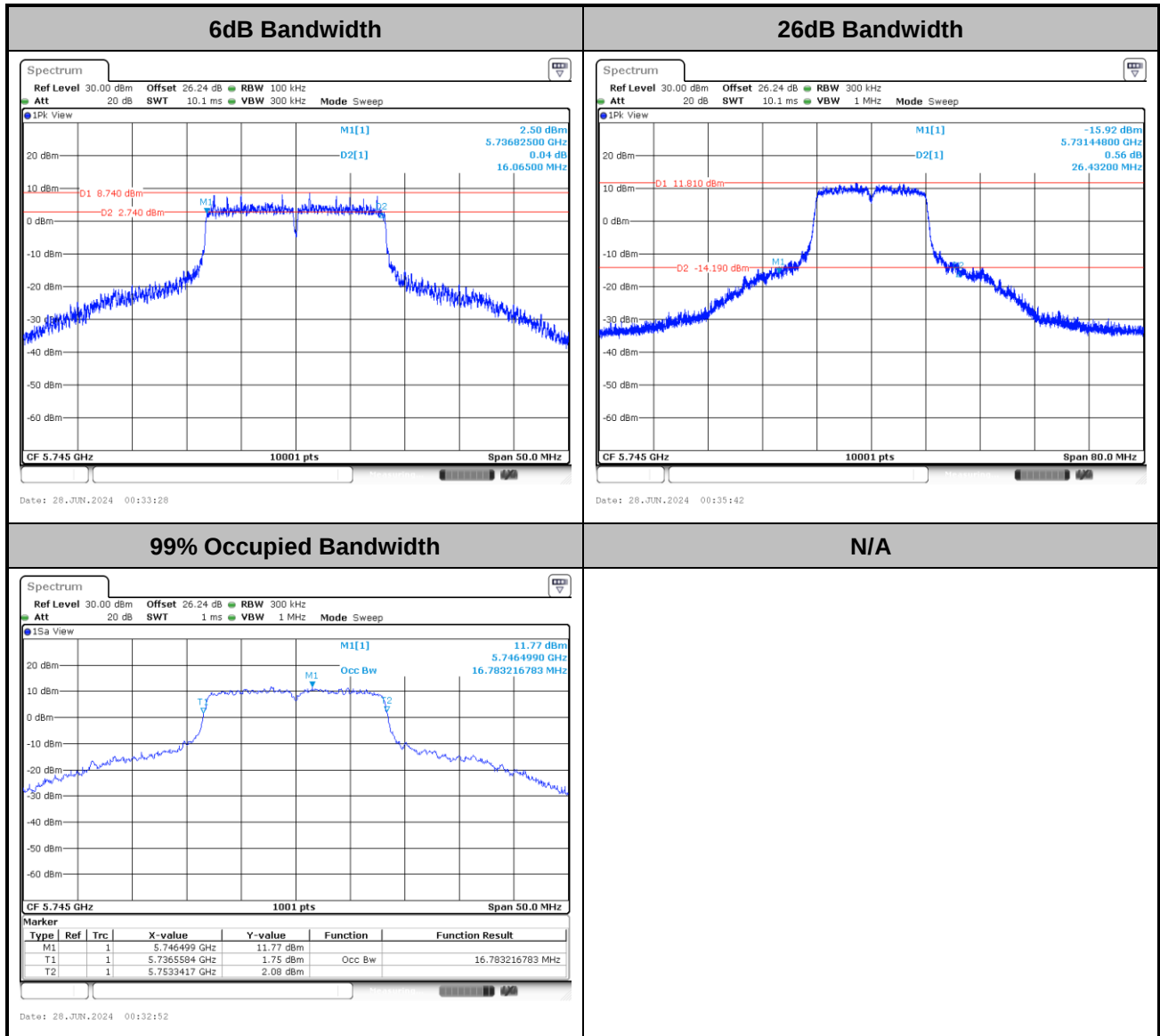
U-NII-3 MIMO															
Mod.	Data Rate	NTx	CH.	Freq. (MHz)	RU Config	10log (500kHz /RBW) Factor (dB)		Average Power Density with Duty Factor (dBm/500kHz)			Average PSD Limit (dBm/500kHz)		DG (dBi)		Pass /Fail
						Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	
HE20	MCS0	2	149	5745	Full	2.22		5.51	4.73	8.52	29.58		6.42		Pass
HE20	MCS0	2	149	5745	26/0	2.22		5.24	4.46	8.25	29.58		6.42		Pass
HE20	MCS0	2	149	5745	52/37	2.22		5.44	4.63	8.45	29.58		6.42		Pass
HE20	MCS0	2	149	5745	106/53	2.22		5.34	4.71	8.35	29.58		6.42		Pass
HE20	MCS0	2	157	5785	Full	2.22		5.17	4.86	8.18	29.58		6.42		Pass
HE20	MCS0	2	157	5785	26/4	2.22		5.03	4.25	8.04	29.58		6.42		Pass
HE20	MCS0	2	157	5785	52/38	2.22		5.13	4.82	8.14	29.58		6.42		Pass
HE20	MCS0	2	157	5785	106/53	2.22		4.83	4.27	7.84	29.58		6.42		Pass
HE20	MCS0	2	165	5825	Full	2.22		5.53	4.91	8.54	29.58		6.42		Pass
HE20	MCS0	2	165	5825	26/8	2.22		4.83	4.84	7.85	29.58		6.42		Pass
HE20	MCS0	2	165	5825	52/40	2.22		4.75	4.38	7.76	29.58		6.42		Pass
HE20	MCS0	2	165	5825	106/54	2.22		4.26	3.99	7.27	29.58		6.42		Pass
HE40	MCS0	2	151	5755	Full	2.22		1.97	0.66	4.98	29.58		6.42		Pass
HE40	MCS0	2	151	5755	242/61	2.22		1.55	0.90	4.56	29.58		6.42		Pass
HE40	MCS0	2	159	5795	Full	2.22		2.54	2.16	5.55	29.58		6.42		Pass
HE40	MCS0	2	159	5795	242/62	2.22		1.25	1.16	4.26	29.58		6.42		Pass
HE80	MCS0	2	155	5775	Full	2.22		-1.95	-2.20	1.06	29.58		6.42		Pass
HE80	MCS0	2	155	5775	484/65	2.22		-2.62	-2.79	0.39	29.58		6.42		Pass
HE80	MCS0	2	155	5775	484/66	2.22		-2.79	-2.75	0.26	29.58		6.42		Pass

Note: PSD Sum = Max PSD(Ant. 1, Ant. 2) + 10 log (n)

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

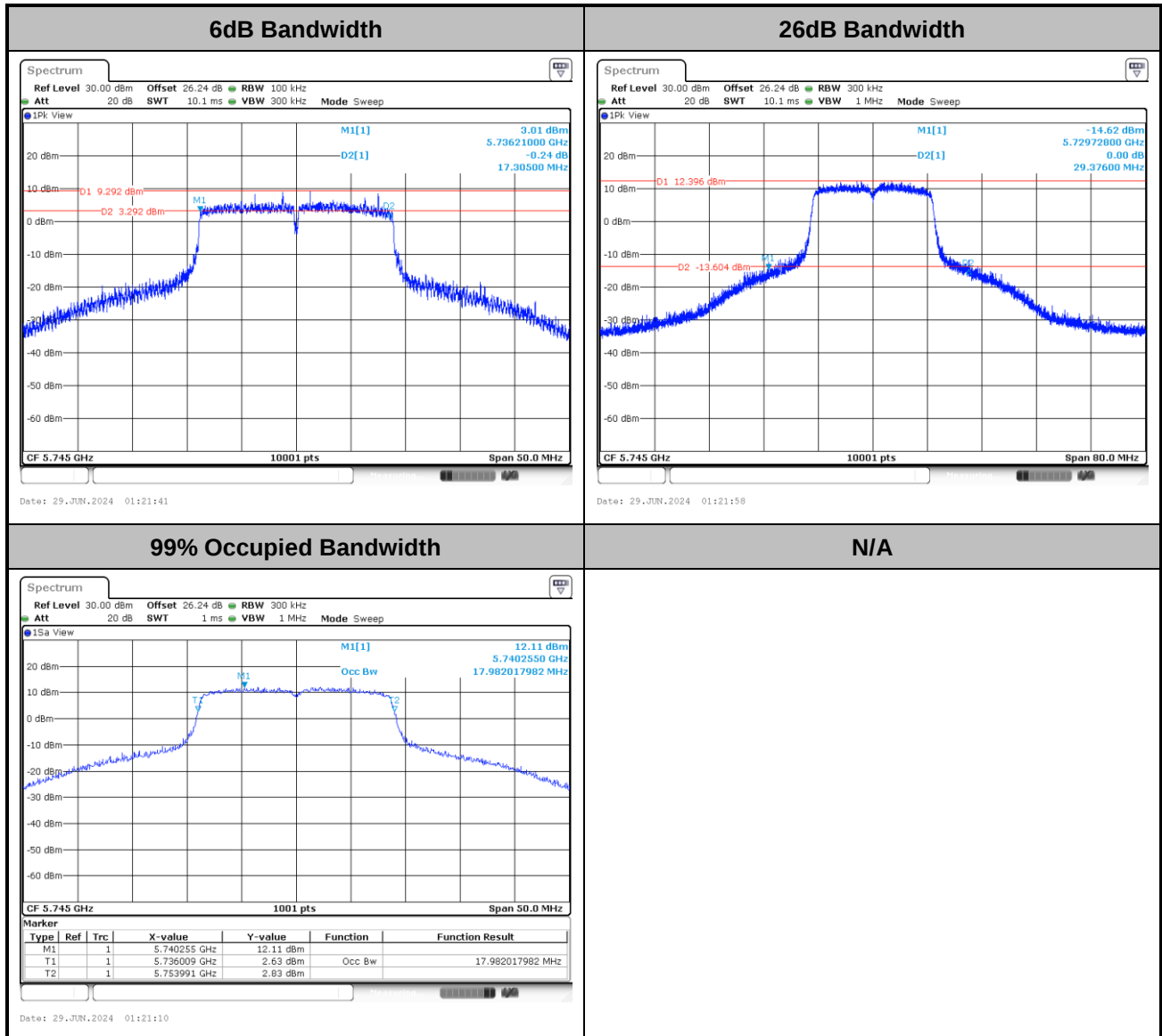
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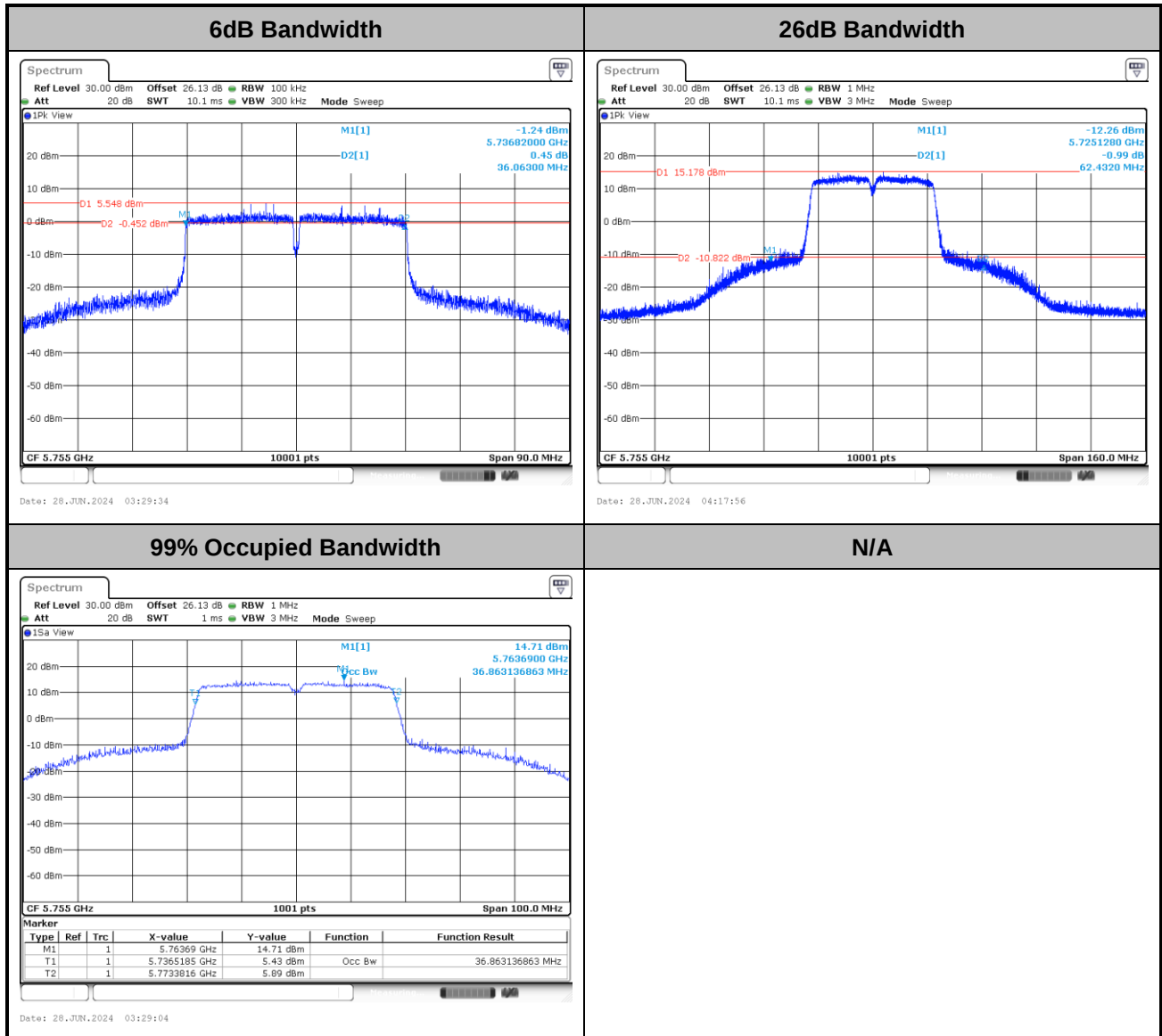


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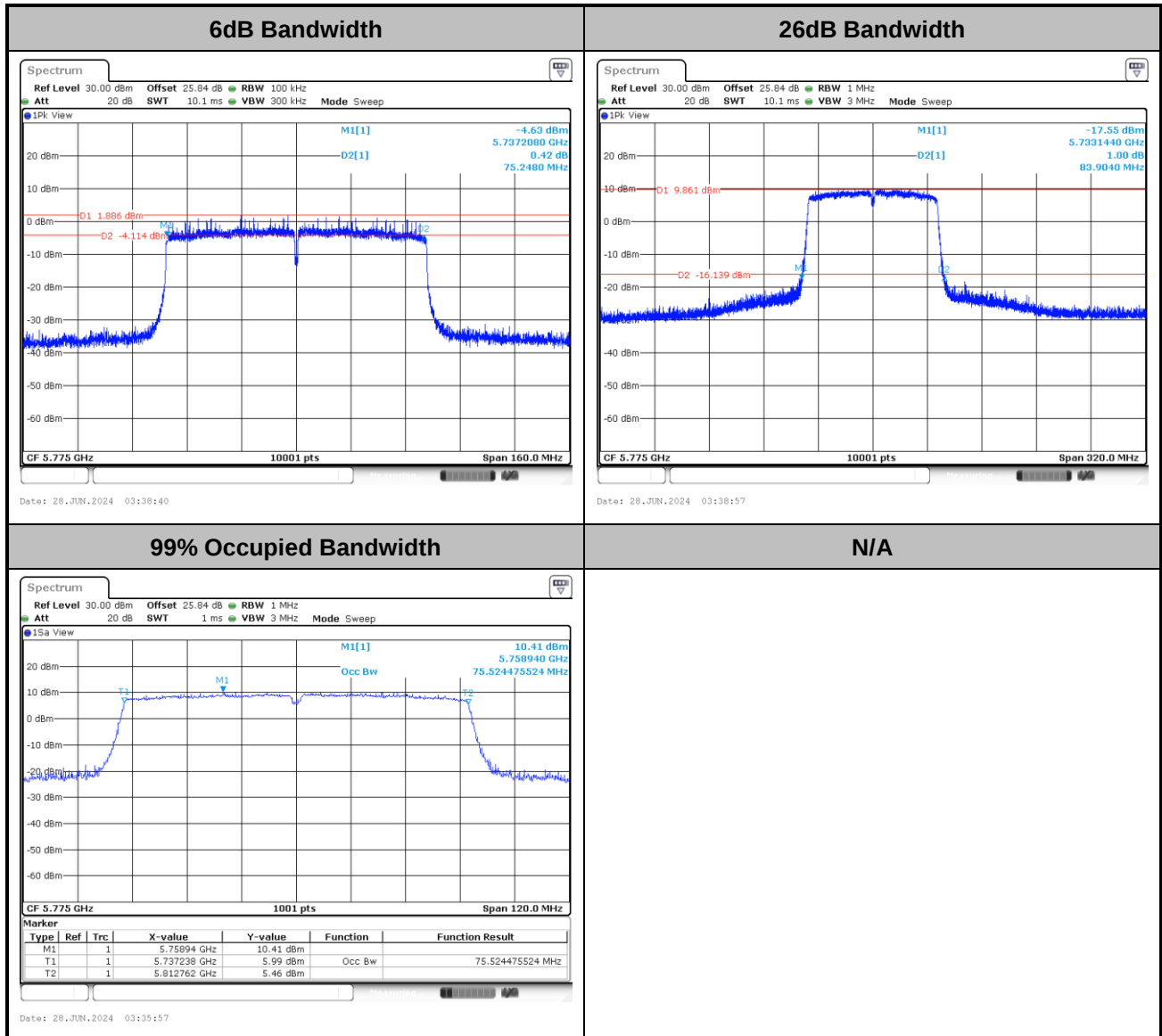


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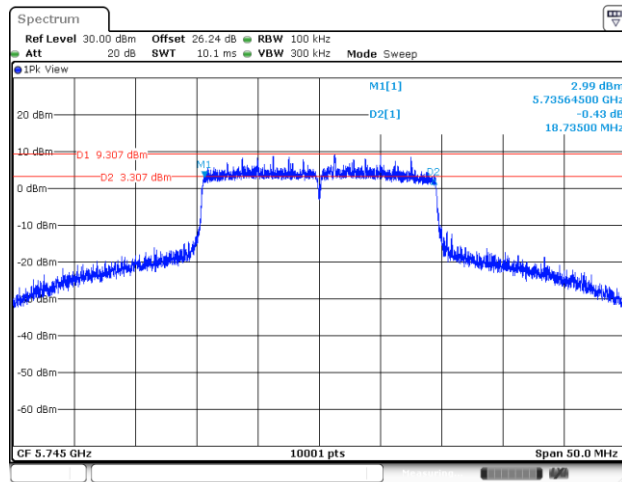
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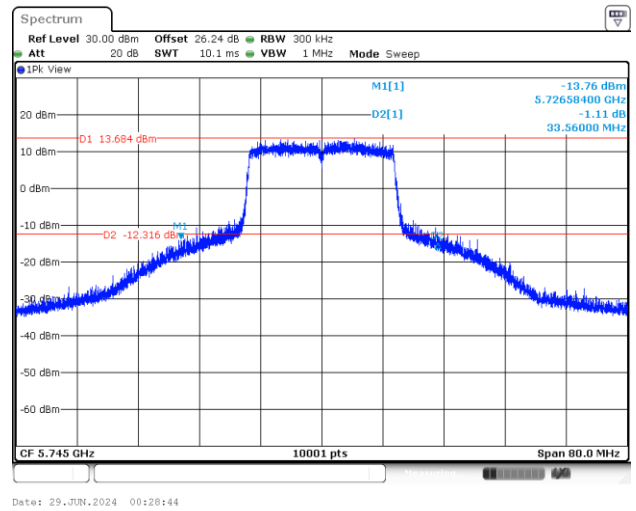


<802.11ax HE20>

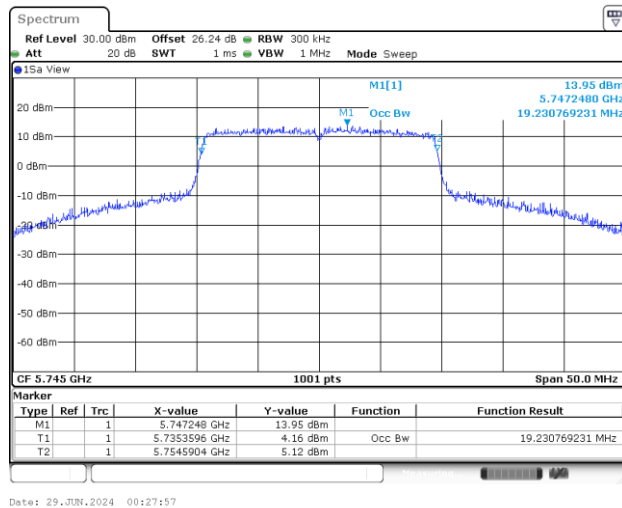
6dB Bandwidth



26dB Bandwidth



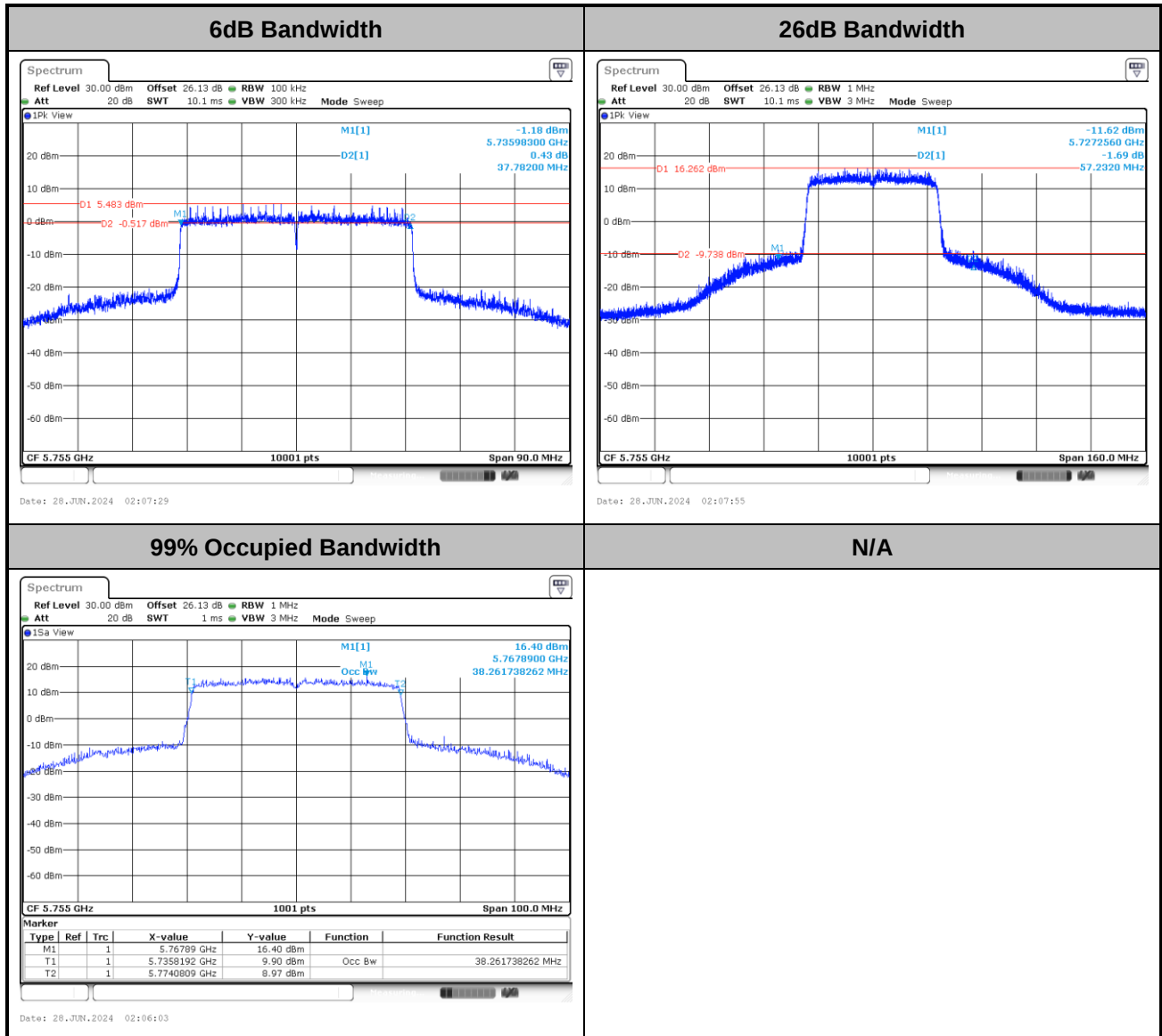
99% Occupied Bandwidth



N/A



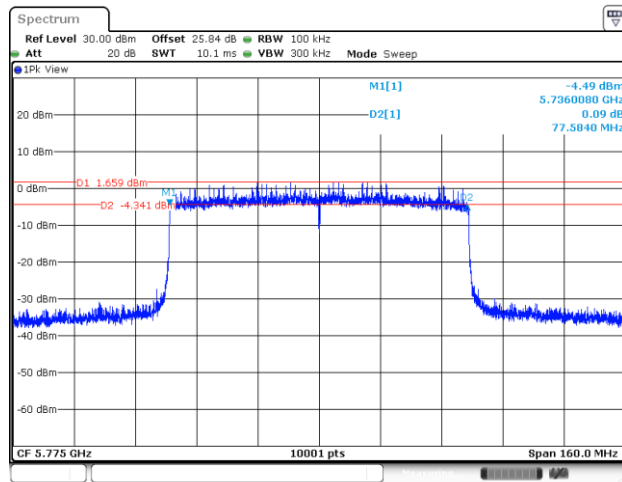
<802.11ax HE40>



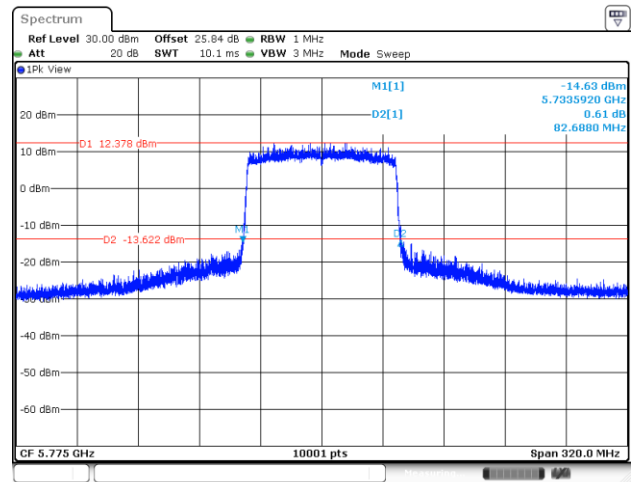


<802.11ax HE80>

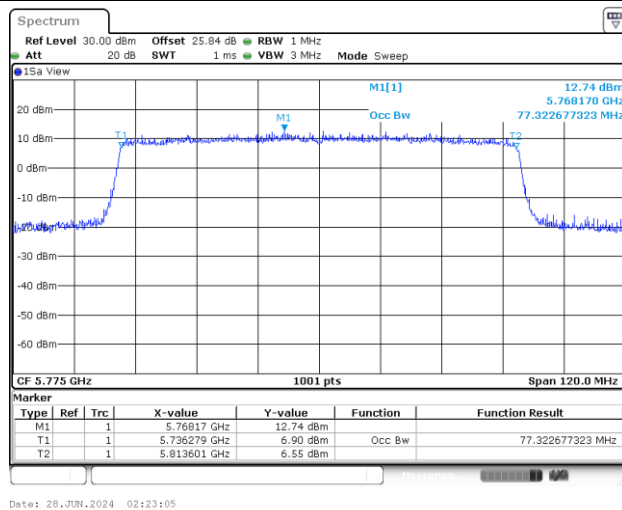
6dB Bandwidth



26dB Bandwidth



99% Occupied Bandwidth

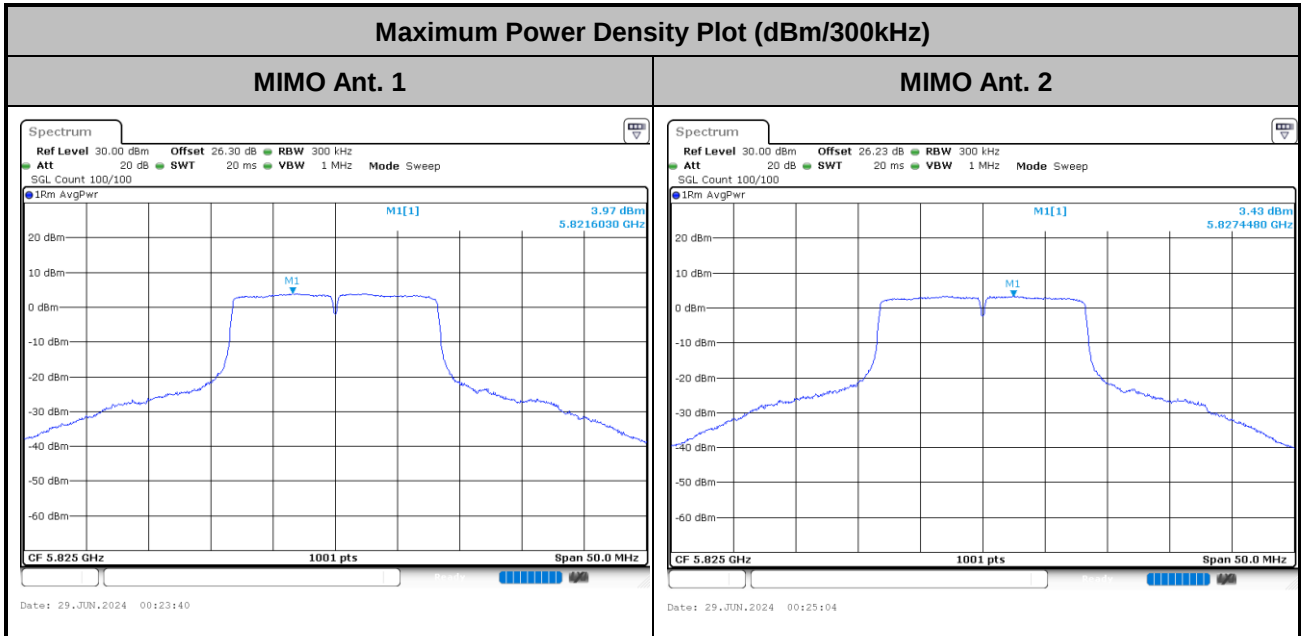


N/A

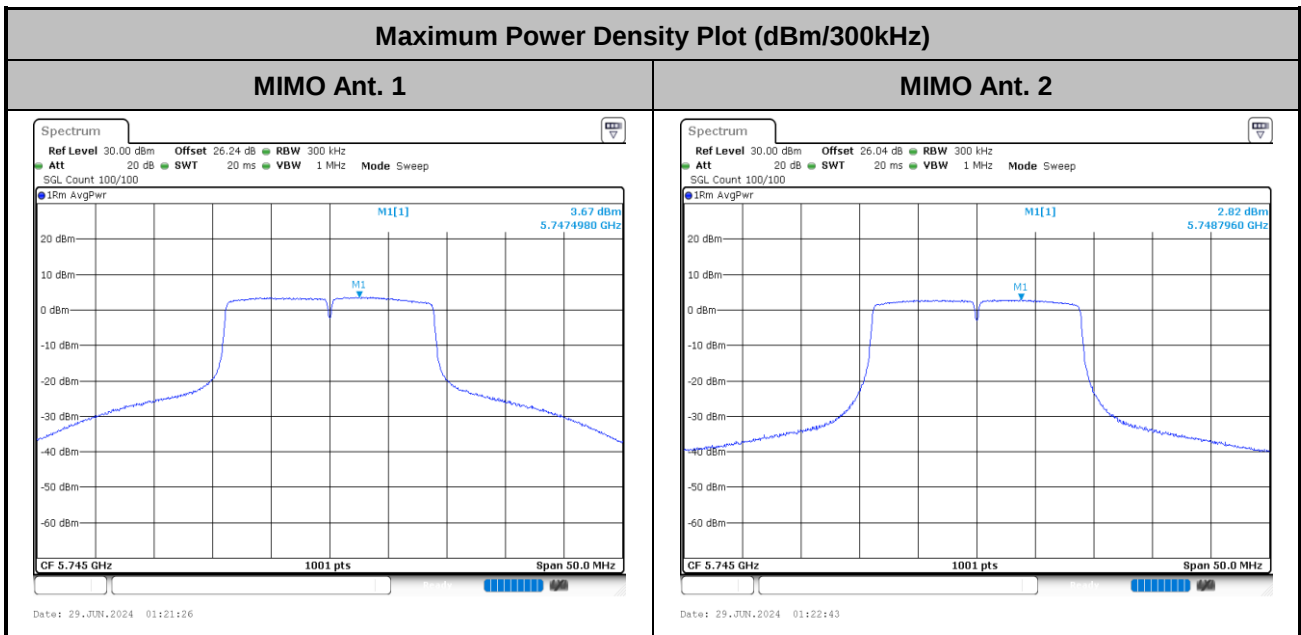


Test Result of Power Spectral Density

<802.11a>

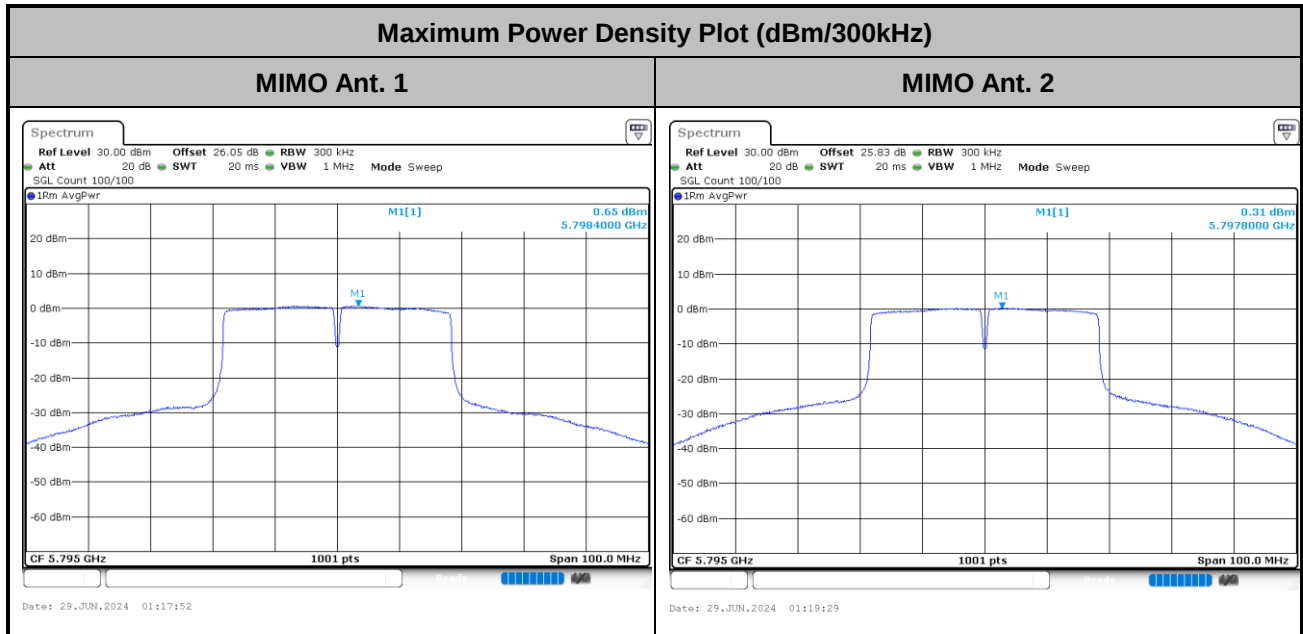


<802.11ac VHT20>

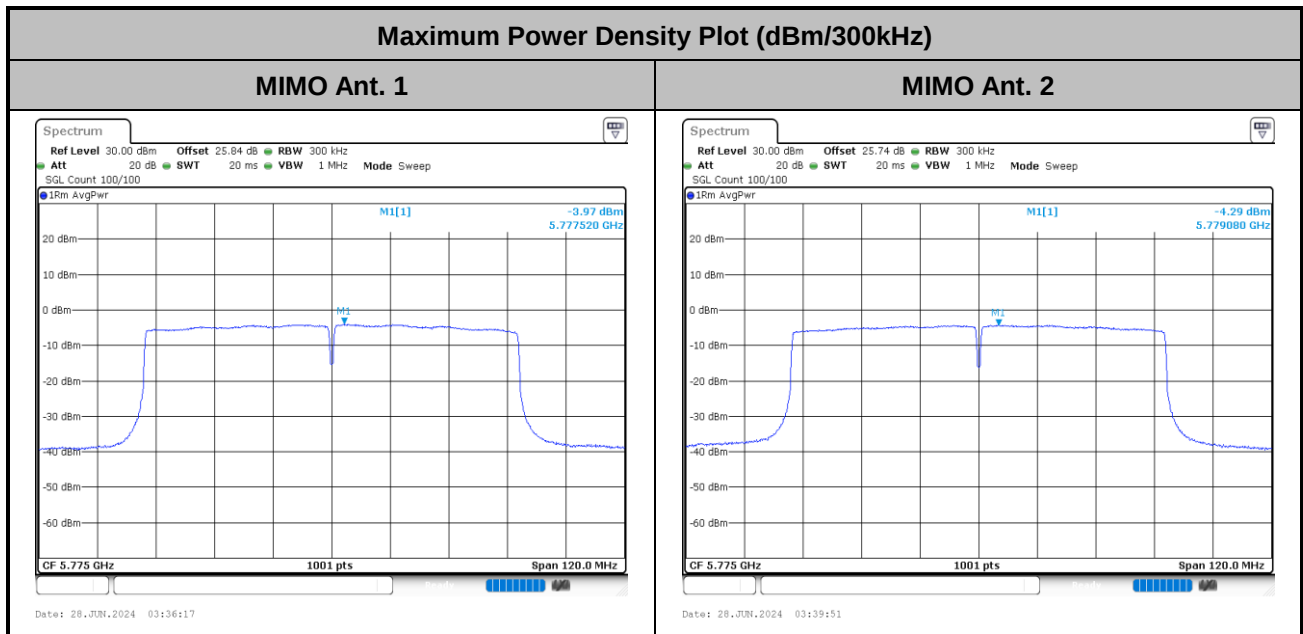




<802.11ac VHT40>



<802.11ac VHT80>

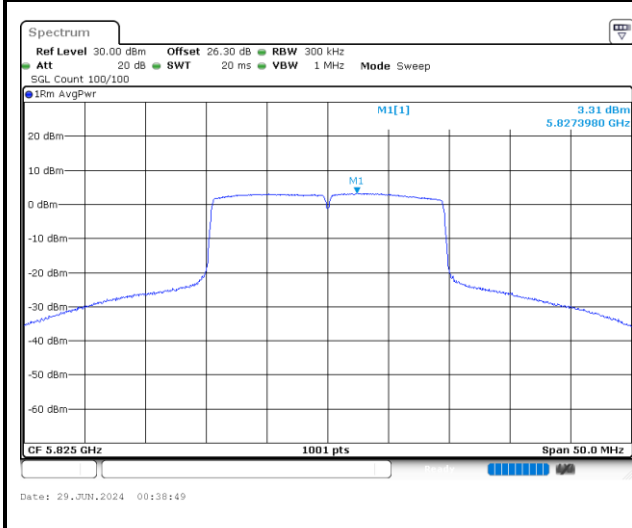




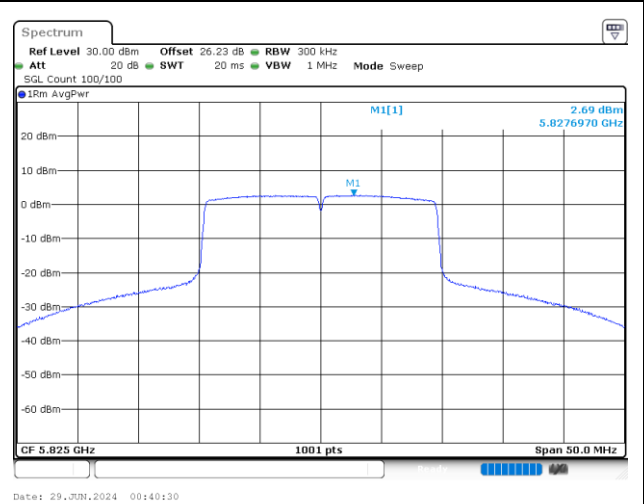
<802.11ax HE20>

Maximum Power Density Plot (dBm/300kHz)

MIMO Ant. 1



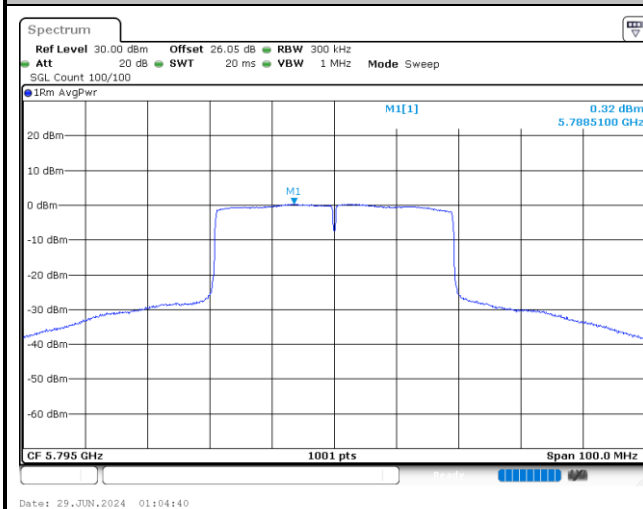
MIMO Ant. 2



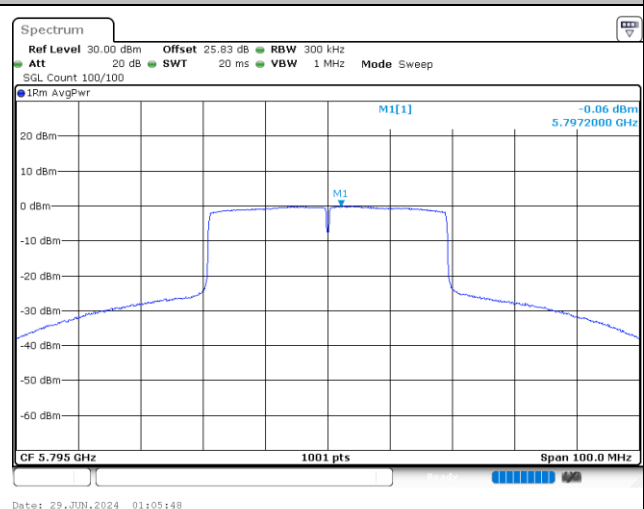
<802.11ax HE40>

Maximum Power Density Plot (dBm/300kHz)

MIMO Ant. 1

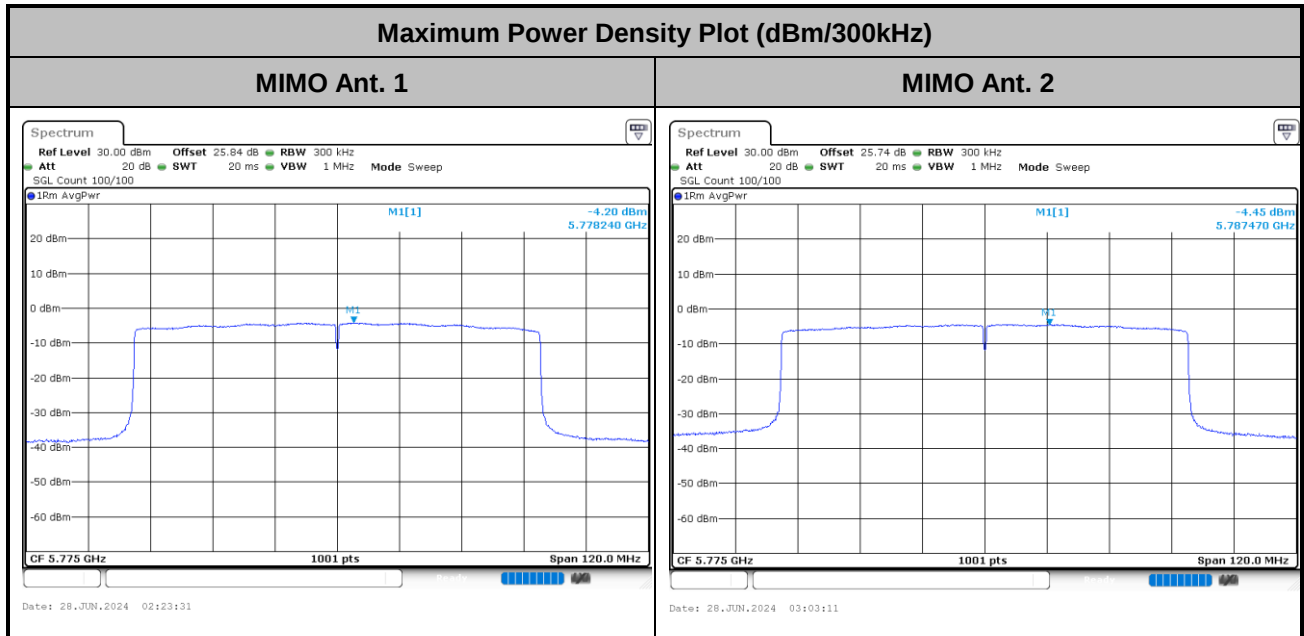


MIMO Ant. 2





<802.11ax HE80>





Appendix B. AC Conducted Emission Test Results

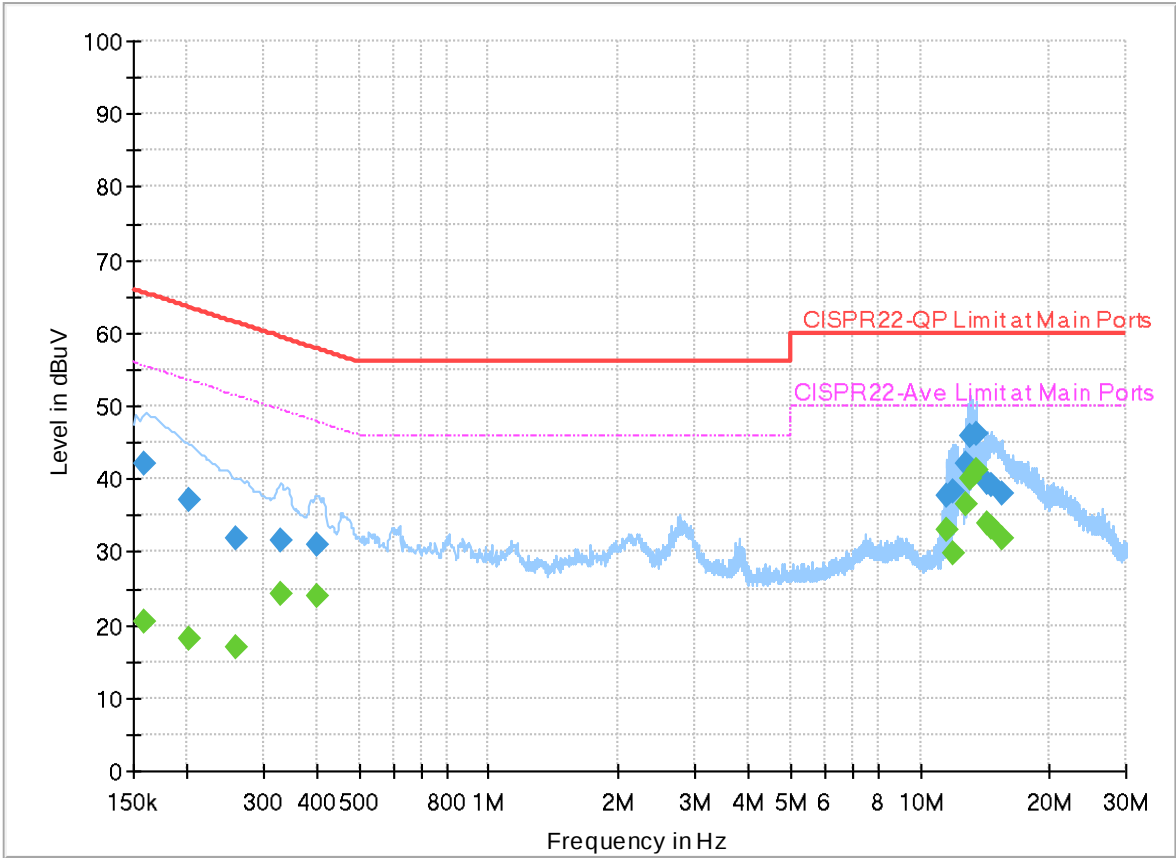
Test Engineer :	Louis Chung	Temperature :	22.3~24.7°C
		Relative Humidity :	40.4~48.9%

EUT Information

Test Mode :
Test Voltage :
Phase :

Mode 1
120Vac/60Hz
Line

Full Spectrum



Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.159000	---	20.55	55.52	34.97	L1	OFF	19.9
0.159000	41.97	---	65.52	23.55	L1	OFF	19.9
0.201750	---	18.05	53.54	35.49	L1	OFF	19.9
0.201750	37.20	---	63.54	26.34	L1	OFF	19.9
0.260250	---	16.91	51.42	34.51	L1	OFF	19.9
0.260250	31.88	---	61.42	29.54	L1	OFF	19.9
0.330000	---	24.26	49.45	25.19	L1	OFF	19.9
0.330000	31.60	---	59.45	27.85	L1	OFF	19.9
0.400470	---	23.99	47.84	23.85	L1	OFF	19.9
0.400470	30.91	---	57.84	26.93	L1	OFF	19.9
11.558040	---	32.90	50.00	17.10	L1	OFF	20.1
11.558040	37.80	---	60.00	22.20	L1	OFF	20.1
11.949000	---	29.95	50.00	20.05	L1	OFF	20.1
11.949000	38.44	---	60.00	21.56	L1	OFF	20.1
12.757560	---	36.64	50.00	13.36	L1	OFF	20.1
12.757560	41.99	---	60.00	18.01	L1	OFF	20.1
13.056000	---	40.07	50.00	9.93	L1	OFF	20.1
13.056000	45.84	---	60.00	14.16	L1	OFF	20.1
13.559640	---	41.22	50.00	8.78	L1	OFF	20.1

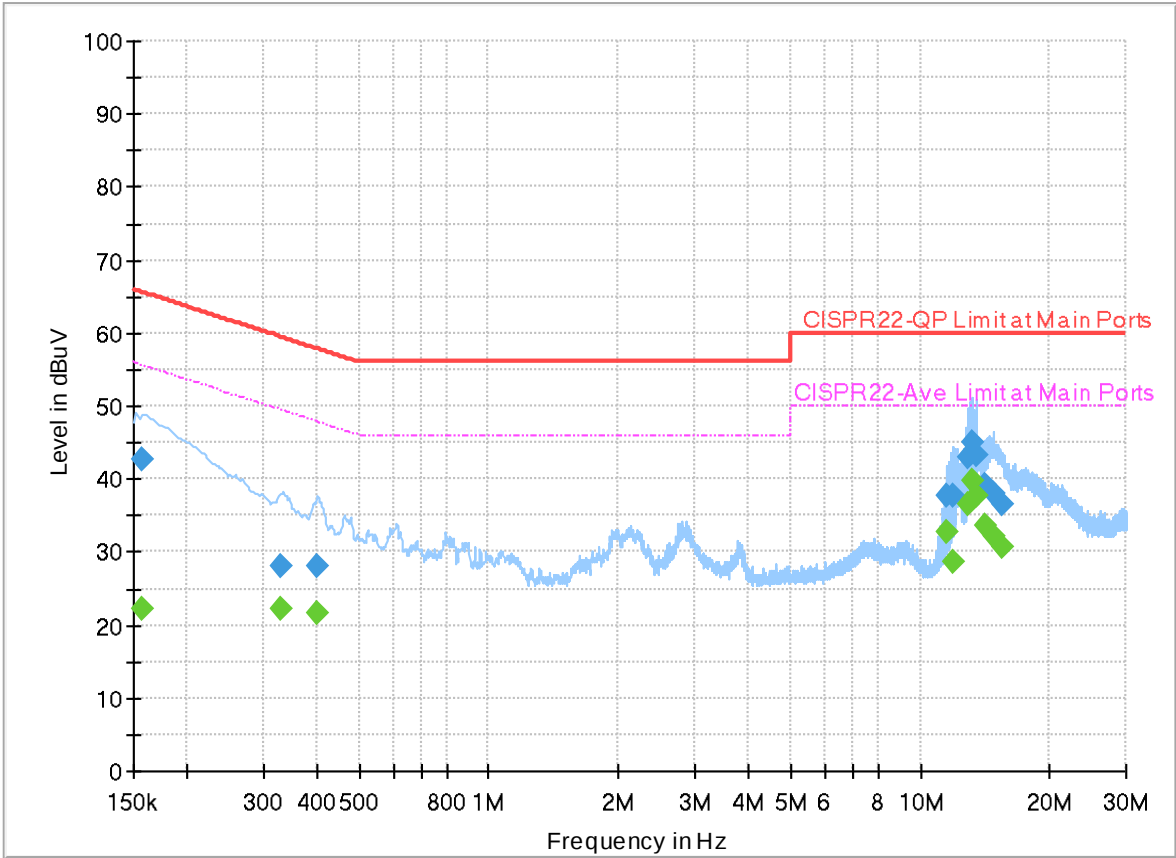
13.559640	46.11	---	60.00	13.89	L1	OFF	20.1
14.254170	---	33.94	50.00	16.06	L1	OFF	20.1
14.254170	39.49	---	60.00	20.51	L1	OFF	20.1
14.633250	---	33.30	50.00	16.70	L1	OFF	20.1
14.633250	39.28	---	60.00	20.72	L1	OFF	20.1
15.447750	---	31.90	50.00	18.10	L1	OFF	20.1
15.447750	38.15	---	60.00	21.85	L1	OFF	20.1

EUT Information

Test Mode :
Test Voltage :
Phase :

Mode 1
120Vac/60Hz
Neutral

Full Spectrum



Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.156750	---	22.08	55.63	33.55	N	OFF	19.9
0.156750	42.64	---	65.63	22.99	N	OFF	19.9
0.330000	---	22.29	49.45	27.16	N	OFF	19.9
0.330000	27.97	---	59.45	31.48	N	OFF	19.9
0.400830	---	21.56	47.84	26.28	N	OFF	19.9
0.400830	28.03	---	57.84	29.81	N	OFF	19.9
11.556870	---	32.74	50.00	17.26	N	OFF	20.1
11.556870	37.80	---	60.00	22.20	N	OFF	20.1
11.944500	---	28.60	50.00	21.40	N	OFF	20.1
11.944500	37.72	---	60.00	22.28	N	OFF	20.1
12.861780	---	36.58	50.00	13.42	N	OFF	20.1
12.861780	43.02	---	60.00	16.98	N	OFF	20.1
13.255260	---	39.67	50.00	10.33	N	OFF	20.1
13.255260	44.95	---	60.00	15.05	N	OFF	20.1
13.555500	---	37.84	50.00	12.16	N	OFF	20.1
13.555500	43.25	---	60.00	16.75	N	OFF	20.1
14.147610	---	33.65	50.00	16.35	N	OFF	20.1
14.147610	39.10	---	60.00	20.90	N	OFF	20.1
14.855280	---	32.11	50.00	17.89	N	OFF	20.1

14.855280	38.10	---	60.00	21.90	N	OFF	20.1
15.541980	---	30.64	50.00	19.36	N	OFF	20.2
15.541980	36.45	---	60.00	23.55	N	OFF	20.2



Appendix C. Radiated Spurious Emission

Test Engineer :	John Chuang, David Dai and Sam Chou	Temperature :	19.7~23.5°C
		Relative Humidity :	64.9~70.8%

Band 4 - 5725~5850MHz

WIFI 802.11a (Band Edge @ 3m)

WIFI Ant.	Note	Frequency	Level	Margin	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
1+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 149 5745MHz		5620.7	49.74	-18.46	68.2	41.02	33.2	13.52	38	202	44	P	H
		5694.275	51.94	-49.04	100.98	42.92	33.38	13.62	37.98	202	44	P	H
		5717.225	68.33	-41.69	110.02	59.12	33.54	13.65	37.98	202	44	P	H
		5724.2	75.01	-45.37	120.38	65.74	33.59	13.66	37.98	202	44	P	H
	*	5745	115.51	-	-	106.03	33.76	13.69	37.97	202	44	P	H
	*	5745	109.65	-	-	100.17	33.76	13.69	37.97	202	44	A	H
													H
													H
		5640.05	46.89	-21.31	68.2	38.15	33.2	13.54	38	108	6	P	V
		5688.875	48.77	-48.23	97	39.78	33.36	13.61	37.98	108	6	P	V
		5719.25	63.33	-47.26	110.59	54.11	33.55	13.65	37.98	108	6	P	V
		5724.875	72.85	-49.07	121.92	63.57	33.6	13.66	37.98	108	6	P	V
	*	5745	111.5	-	-	102.02	33.76	13.69	37.97	108	6	P	V
	*	5745	104.36	-	-	94.88	33.76	13.69	37.97	108	6	A	V
													V
													V



WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 157 5785MHz		5629.5	48.47	-19.73	68.2	39.74	33.2	13.53	38	202	46	P	H
		5682.75	50.13	-42.34	92.47	41.19	33.33	13.6	37.99	202	46	P	H
		5701.25	51.3	-54.25	105.55	42.24	33.41	13.63	37.98	202	46	P	H
		5721.25	49.5	-64.15	113.65	40.26	33.57	13.65	37.98	202	46	P	H
	*	5785	115.25	-	-	105.53	33.94	13.74	37.96	202	46	P	H
	*	5785	109.72	-	-	100	33.94	13.74	37.96	202	46	A	H
		5854.25	48.01	-64.5	112.51	37.8	34.3	13.85	37.94	202	46	P	H
		5858.25	48.98	-60.91	109.89	38.77	34.3	13.85	37.94	202	46	P	H
		5919.5	48.81	-23.44	72.25	38.49	34.3	13.95	37.93	202	46	P	H
		5940.25	49.06	-19.14	68.2	38.7	34.3	13.98	37.92	202	46	P	H
													H
													H
		5628.75	46.7	-21.5	68.2	37.97	33.2	13.53	38	105	17	P	V
		5679.5	48.03	-42.04	90.07	39.1	33.32	13.6	37.99	105	17	P	V
		5715.5	47.96	-61.58	109.54	38.77	33.52	13.65	37.98	105	17	P	V
		5725	47.63	-74.57	122.2	38.35	33.6	13.66	37.98	105	17	P	V
	*	5785	111.12	-	-	101.4	33.94	13.74	37.96	105	17	P	V
	*	5785	104.56	-	-	94.84	33.94	13.74	37.96	105	17	A	V
		5850	48.33	-73.87	122.2	38.14	34.3	13.84	37.95	105	17	P	V
		5874	47.39	-58.09	105.48	37.15	34.3	13.88	37.94	105	17	P	V
		5881.5	47.99	-52.38	100.37	37.74	34.3	13.89	37.94	105	17	P	V
		5949.5	47.83	-20.37	68.2	37.45	34.3	14	37.92	105	17	P	V
													V
													V



WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 165 5825MHz	*	5825	116.76	-	-	106.76	34.15	13.8	37.95	203	46	P	H
	*	5825	109.17	-	-	99.17	34.15	13.8	37.95	203	46	A	H
		5852.8	71.65	-44.17	115.82	61.46	34.3	13.84	37.95	203	46	P	H
		5858.6	61.6	-48.19	109.79	51.39	34.3	13.85	37.94	203	46	P	H
		5877.8	51.03	-52.09	103.12	40.79	34.3	13.88	37.94	203	46	P	H
		5940.2	49.66	-18.54	68.2	39.3	34.3	13.98	37.92	203	46	P	H
													H
													H
	*	5825	112.08	-	-	102.08	34.15	13.8	37.95	101	17	P	V
	*	5825	105.14	-	-	95.14	34.15	13.8	37.95	101	17	A	V
		5850	63.58	-58.62	122.2	53.39	34.3	13.84	37.95	101	17	P	V
		5855	62.74	-48.06	110.8	52.53	34.3	13.85	37.94	101	17	P	V
		5909.4	48.82	-30.89	79.71	38.51	34.3	13.94	37.93	101	17	P	V
		5946.4	49.04	-19.16	68.2	38.67	34.3	13.99	37.92	101	17	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 Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 149 5745MHz		11490	50.7	-23.3	74	34.28	39.13	19.93	42.64	100	64	P	H
		11490	43.75	-10.25	54	27.33	39.13	19.93	42.64	100	64	A	H
		17235	51.04	-17.16	68.2	33.26	37.97	24.58	44.77	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
		11490	51.45	-22.55	74	35.03	39.13	19.93	42.64	359	347	P	V
		11490	42.87	-11.13	54	26.45	39.13	19.93	42.64	359	347	A	V
		17235	51.67	-16.53	68.2	33.89	37.97	24.58	44.77	-	-	P	V
													V
													V
													V
													V
													V
													V
													V
													V
													V
													V



WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 157 5785MHz		11570	50.94	-23.06	74	34.62	39.03	20	42.71	102	63	P	H
		11570	41.11	-12.89	54	24.79	39.03	20	42.71	102	63	A	H
		17355	51.42	-16.78	68.2	33.43	38.21	24.66	44.88	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
													H
		11570	50.55	-23.45	74	34.23	39.03	20	42.71	100	55	P	V
		11570	40.67	-13.33	54	24.35	39.03	20	42.71	100	55	A	V
		17355	51.55	-16.65	68.2	33.56	38.21	24.66	44.88	-	-	P	V
													V
													V
													V
													V
													V
													V
													V
													V
													V

[illegible]



Band 4 5725~5850MHz

WIFI 802.11ac VHT80 (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT80 CH 155 5775MHz		5641.5	62.15	-6.05	68.2	53.4	33.2	13.55	38	203	44	P	H
		5700	79.67	-25.53	105.2	70.63	33.4	13.62	37.98	203	44	P	H
		5718.25	82.9	-27.41	110.31	73.68	33.55	13.65	37.98	203	44	P	H
		5720.5	81.56	-30.38	111.94	72.33	33.56	13.65	37.98	203	44	P	H
	*	5775	111.32	-	-	101.65	33.9	13.73	37.96	203	44	P	H
	*	5775	103.97	-	-	94.3	33.9	13.73	37.96	203	44	A	H
		5850	76.19	-46.01	122.2	66	34.3	13.84	37.95	203	44	P	H
		5858.75	75.6	-34.15	109.75	65.39	34.3	13.85	37.94	203	44	P	H
		5876.75	65.87	-38.03	103.9	55.63	34.3	13.88	37.94	203	44	P	H
		5939.5	54.33	-13.87	68.2	43.97	34.3	13.98	37.92	203	44	P	H
													H
													H
		5647	57.47	-10.73	68.2	48.71	33.2	13.55	37.99	100	15	P	V
		5695.5	72.8	-29.08	101.88	63.78	33.38	13.62	37.98	100	15	P	V
		5714.75	77.54	-31.79	109.33	68.36	33.52	13.64	37.98	100	15	P	V
		5723	77.73	-39.91	117.64	68.47	33.58	13.66	37.98	100	15	P	V
	*	5775	106.27	-	-	96.6	33.9	13.73	37.96	100	15	P	V
	*	5775	99.59	-	-	89.92	33.9	13.73	37.96	100	15	A	V
		5851.75	71.92	-46.29	118.21	61.73	34.3	13.84	37.95	100	15	P	V
		5857.5	71.7	-38.4	110.1	61.49	34.3	13.85	37.94	100	15	P	V
		5875	64.05	-41.15	105.2	53.81	34.3	13.88	37.94	100	15	P	V
		5928.5	51.54	-16.66	68.2	41.2	34.3	13.97	37.93	100	15	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 802.11ac VHT80 (Harmonic @ 3m)

[illegible]

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

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE20 Full CH 149 5745MHz		5614.4	48.55	-19.65	68.2	39.84	33.2	13.51	38	200	43	P	H
		5699.9	53.36	-51.77	105.13	44.32	33.4	13.62	37.98	200	43	P	H
		5719.925	73.01	-37.77	110.78	63.78	33.56	13.65	37.98	200	43	P	H
		5725.1	76.49	-57.71	134.2	67.21	33.6	13.66	37.98	200	43	P	H
	*	5745	115.8	-	-	106.32	33.76	13.69	37.97	200	43	P	H
	*	5745	109.21	-	-	99.73	33.76	13.69	37.97	200	43	A	H
													H
													H
		5647.475	47.24	-20.96	68.2	38.48	33.2	13.55	37.99	149	351	P	V
		5698.325	49.76	-54.21	103.97	40.73	33.39	13.62	37.98	149	351	P	V
		5717.9	65.34	-44.87	110.21	56.13	33.54	13.65	37.98	149	351	P	V
		5723.975	75.97	-43.89	119.86	66.7	33.59	13.66	37.98	149	351	P	V
	*	5745	111.14	-	-	101.66	33.76	13.69	37.97	149	351	P	V
	*	5745	105.43	-	-	95.95	33.76	13.69	37.97	149	351	A	V
													V
													V



WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE20 Full CH 157 5785MHz		5624	48.61	-19.59	68.2	39.89	33.2	13.52	38	206	46	P	H
		5679	48.52	-41.18	89.7	39.59	33.32	13.6	37.99	206	46	P	H
		5709.25	51.09	-56.7	107.79	41.96	33.47	13.64	37.98	206	46	P	H
		5724	49.54	-70.38	119.92	40.27	33.59	13.66	37.98	206	46	P	H
	*	5785	116.08	-	-	106.36	33.94	13.74	37.96	206	46	P	H
	*	5785	109.2	-	-	99.48	33.94	13.74	37.96	206	46	A	H
		5851.75	48.95	-69.26	118.21	38.76	34.3	13.84	37.95	206	46	P	H
		5861.25	50.41	-58.64	109.05	40.19	34.3	13.86	37.94	206	46	P	H
		5875.5	49.49	-55.34	104.83	39.25	34.3	13.88	37.94	206	46	P	H
		5931	48.83	-19.37	68.2	38.49	34.3	13.97	37.93	206	46	P	H
													H
													H
		5640.5	47.28	-20.92	68.2	38.54	33.2	13.54	38	151	345	P	V
		5660.5	42.35	-33.65	76	33.53	33.24	13.57	37.99	151	345	P	V
		5696	46.82	-55.43	102.25	37.8	33.38	13.62	37.98	151	345	P	V
		5720	47.9	-62.9	110.8	38.67	33.56	13.65	37.98	151	345	P	V
	*	5785	111.14	-	-	101.42	33.94	13.74	37.96	151	345	P	V
	*	5785	104.9	-	-	95.18	33.94	13.74	37.96	151	345	A	V
		5855	46.53	-64.27	110.8	36.32	34.3	13.85	37.94	151	345	P	V
		5874.25	47.72	-57.69	105.41	37.48	34.3	13.88	37.94	151	345	P	V
		5920.25	48.31	-23.39	71.7	37.99	34.3	13.95	37.93	151	345	P	V
		5949.5	47.33	-20.87	68.2	36.95	34.3	14	37.92	151	345	P	V
													V
													V



WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE20 Full CH 165 5825MHz	*	5825	114.55	-	-	104.55	34.15	13.8	37.95	202	44	P	H
	*	5825	108.68	-	-	98.68	34.15	13.8	37.95	202	44	A	H
		5850.4	73.29	-48	121.29	63.1	34.3	13.84	37.95	202	44	P	H
		5859.4	64.24	-45.33	109.57	54.02	34.3	13.86	37.94	202	44	P	H
		5877.6	51.11	-52.16	103.27	40.87	34.3	13.88	37.94	202	44	P	H
		5949.2	48.96	-19.24	68.2	38.58	34.3	14	37.92	202	44	P	H
													H
													H
	*	5825	110.13	-	-	100.13	34.15	13.8	37.95	148	345	P	V
	*	5825	104.19	-	-	94.19	34.15	13.8	37.95	148	345	A	V
		5850	65.2	-57	122.2	55.01	34.3	13.84	37.95	148	345	P	V
		5858	60.95	-49.01	109.96	50.74	34.3	13.85	37.94	148	345	P	V
		5875.2	48.31	-56.74	105.05	38.07	34.3	13.88	37.94	148	345	P	V
		5942.6	48.19	-20.01	68.2	37.82	34.3	13.99	37.92	148	345	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)

[illegible]



WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE20 Full CH 157 5785MHz		11570	51.58	-22.42	74	35.26	39.03	20	42.71	103	309	P	H
		11570	40.69	-13.31	54	24.37	39.03	20	42.71	103	309	A	H
		17355	51.37	-16.83	68.2	33.38	38.21	24.66	44.88	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
													H
		11570	51.33	-22.67	74	35.01	39.03	20	42.71	400	21	P	V
		11570	40.71	-13.29	54	24.39	39.03	20	42.71	400	21	A	V
		17355	51.98	-16.22	68.2	33.99	38.21	24.66	44.88	-	-	P	V
													V
													V
													V
													V
													V
													V

[illegible]

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

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE20 Partial 106/53 CH 149 5745MHz		5643.65	51.79	-16.41	68.2	43.04	33.2	13.55	38	110	54	P	H
		5692.025	52.79	-46.53	99.32	43.79	33.37	13.61	37.98	110	54	P	H
		5719.7	63.48	-47.24	110.72	54.25	33.56	13.65	37.98	110	54	P	H
		5721.05	71.32	-41.87	113.19	62.08	33.57	13.65	37.98	110	54	P	H
	*	5745	117.78	-	-	108.3	33.76	13.69	37.97	110	54	P	H
	*	5745	111.43	-	-	101.95	33.76	13.69	37.97	110	54	A	H
													H
													H
		5638.475	49.16	-19.04	68.2	40.42	33.2	13.54	38	144	346	P	V
		5699.9	50.5	-54.63	105.13	41.46	33.4	13.62	37.98	144	346	P	V
		5717.675	63.63	-46.52	110.15	54.42	33.54	13.65	37.98	144	346	P	V
		5725.1	69.49	-64.71	134.2	60.21	33.6	13.66	37.98	144	346	P	V
	*	5745	115.23	-	-	105.75	33.76	13.69	37.97	144	346	P	V
	*	5745	106.84	-	-	97.36	33.76	13.69	37.97	144	346	A	V
													V
													V



WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE20 Partial 106/54 CH 165 5825MHz	*	5825	118.08	-	-	108.08	34.15	13.8	37.95	168	47	P	H
	*	5825	110.81	-	-	100.81	34.15	13.8	37.95	168	47	A	H
		5854.4	65.68	-46.49	112.17	55.47	34.3	13.85	37.94	168	47	P	H
		5856	63.37	-47.15	110.52	53.16	34.3	13.85	37.94	168	47	P	H
		5888.6	52.98	-42.12	95.1	42.72	34.3	13.9	37.94	168	47	P	H
		5945	50.18	-18.02	68.2	39.81	34.3	13.99	37.92	168	47	P	H
													H
													H
	*	5825	113.29	-	-	103.29	34.15	13.8	37.95	107	350	P	V
	*	5825	106.19	-	-	96.19	34.15	13.8	37.95	107	350	A	V
		5851.6	59.01	-59.54	118.55	48.82	34.3	13.84	37.95	107	350	P	V
		5857.2	60.6	-49.58	110.18	50.39	34.3	13.85	37.94	107	350	P	V
		5909	51.11	-28.9	80.01	40.81	34.3	13.93	37.93	107	350	P	V
		5926.6	49.22	-18.98	68.2	38.89	34.3	13.96	37.93	107	350	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 Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE40 Full CH 151 5755MHz		5645.75	52.94	-15.26	68.2	44.19	33.2	13.55	38	100	57	P	H
		5699.75	67.23	-37.79	105.02	58.19	33.4	13.62	37.98	100	57	P	H
		5719.75	81.28	-29.45	110.73	72.05	33.56	13.65	37.98	100	57	P	H
		5720	81.23	-29.57	110.8	72	33.56	13.65	37.98	100	57	P	H
	*	5755	113.07	-	-	103.52	33.82	13.7	37.97	100	57	P	H
	*	5755	105.96	-	-	96.41	33.82	13.7	37.97	100	57	A	H
		5850.25	53.08	-68.55	121.63	42.89	34.3	13.84	37.95	100	57	P	H
		5863	51.13	-57.43	108.56	40.91	34.3	13.86	37.94	100	57	P	H
		5912.25	50.37	-27.24	77.61	40.06	34.3	13.94	37.93	100	57	P	H
		5928.75	49.39	-18.81	68.2	39.05	34.3	13.97	37.93	100	57	P	H
													H
													H
		5642.75	49.7	-18.5	68.2	40.95	33.2	13.55	38	101	356	P	V
		5697.25	62.42	-40.75	103.17	53.39	33.39	13.62	37.98	101	356	P	V
		5719.25	78.17	-32.42	110.59	68.95	33.55	13.65	37.98	101	356	P	V
		5723.5	81.13	-37.65	118.78	71.86	33.59	13.66	37.98	101	356	P	V
	*	5755	109.44	-	-	99.89	33.82	13.7	37.97	101	356	P	V
	*	5755	101.11	-	-	91.56	33.82	13.7	37.97	101	356	A	V
		5854	51.87	-61.21	113.08	41.67	34.3	13.85	37.95	101	356	P	V
		5874.75	51.06	-54.21	105.27	40.82	34.3	13.88	37.94	101	356	P	V
		5890.25	50.61	-43.27	93.88	40.35	34.3	13.9	37.94	101	356	P	V
		5925.5	51.65	-16.55	68.2	41.32	34.3	13.96	37.93	101	356	P	V
													V
													V



WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE40 Full CH 159 5795MHz		5636.25	50.48	-17.72	68.2	41.74	33.2	13.54	38	135	57	P	H
		5692.75	51.34	-48.52	99.86	42.33	33.37	13.62	37.98	135	57	P	H
		5714.75	55.58	-53.75	109.33	46.4	33.52	13.64	37.98	135	57	P	H
		5724.5	60.38	-60.68	121.06	51.1	33.6	13.66	37.98	135	57	P	H
	*	5795	110.9	-	-	101.13	33.98	13.75	37.96	135	57	P	H
	*	5795	104.22	-	-	94.45	33.98	13.75	37.96	135	57	A	H
		5854.5	62.13	-49.81	111.94	51.92	34.3	13.85	37.94	135	57	P	H
		5857	60.66	-49.58	110.24	50.45	34.3	13.85	37.94	135	57	P	H
		5875.25	55.03	-49.98	105.01	44.79	34.3	13.88	37.94	135	57	P	H
		5930.25	50.29	-17.91	68.2	39.95	34.3	13.97	37.93	135	57	P	H
													H
													H
		5649.25	49.68	-18.52	68.2	40.91	33.2	13.56	37.99	100	358	P	V
		5691.25	50.77	-47.98	98.75	41.77	33.37	13.61	37.98	100	358	P	V
		5718.5	54.96	-55.42	110.38	45.74	33.55	13.65	37.98	100	358	P	V
		5725	59.92	-62.28	122.2	50.64	33.6	13.66	37.98	100	358	P	V
	*	5795	108.66	-	-	98.89	33.98	13.75	37.96	100	358	P	V
	*	5795	101.35	-	-	91.58	33.98	13.75	37.96	100	358	A	V
		5850.25	59.89	-61.74	121.63	49.7	34.3	13.84	37.95	100	358	P	V
		5855.5	60.27	-50.39	110.66	50.06	34.3	13.85	37.94	100	358	P	V
		5879	54.29	-47.94	102.23	44.04	34.3	13.89	37.94	100	358	P	V
		5927.5	50.49	-17.71	68.2	40.16	34.3	13.96	37.93	100	358	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 Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE40 Full CH 151 5755MHz		11510	50.12	-23.88	74	33.74	39.09	19.95	42.66	100	256	P	H
		11510	40.85	-13.15	54	24.47	39.09	19.95	42.66	100	256	A	H
		17265	51.32	-16.88	68.2	33.48	38.03	24.6	44.79	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
		11510	50.64	-23.36	74	34.26	39.09	19.95	42.66	200	132	P	V
		11510	40.77	-13.23	54	24.39	39.09	19.95	42.66	200	132	A	V
		17265	51.5	-16.7	68.2	33.66	38.03	24.6	44.79	-	-	P	V
													V
													V
													V
													V
													V
													V
													V
													V
													V
													V

[illegible]



Band 4 5725~5850MHz

WIFI 802.11ax HE40_Partial 242 (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE40 Partial 242/61 CH 151 5755MHz		5648.25	62.78	-5.42	68.2	54.01	33.2	13.56	37.99	122	54	P	H
		5700	72.48	-32.72	105.2	63.44	33.4	13.62	37.98	122	54	P	H
		5717.75	81.19	-28.98	110.17	71.98	33.54	13.65	37.98	122	54	P	H
		5721.25	80.5	-33.15	113.65	71.26	33.57	13.65	37.98	122	54	P	H
	*	5755	113.89	-	-	104.34	33.82	13.7	37.97	122	54	P	H
	*	5755	106.13	-	-	96.58	33.82	13.7	37.97	122	54	A	H
		5854.25	59.72	-52.79	112.51	49.51	34.3	13.85	37.94	122	54	P	H
		5856.25	58.57	-51.88	110.45	48.36	34.3	13.85	37.94	122	54	P	H
		5893.75	57.34	-33.95	91.29	47.07	34.3	13.91	37.94	122	54	P	H
		5941.25	51.86	-16.34	68.2	41.49	34.3	13.99	37.92	122	54	P	H
													H
													H
		5649.5	59.88	-8.32	68.2	51.11	33.2	13.56	37.99	101	5	P	V
		5693	66.66	-33.38	100.04	57.65	33.37	13.62	37.98	101	5	P	V
		5704.5	68.55	-37.91	106.46	59.46	33.44	13.63	37.98	101	5	P	V
		5724.25	73.45	-47.04	120.49	64.18	33.59	13.66	37.98	101	5	P	V
	*	5755	110.01	-	-	100.46	33.82	13.7	37.97	101	5	P	V
	*	5755	101.36	-	-	91.81	33.82	13.7	37.97	101	5	A	V
		5854.5	54.65	-57.29	111.94	44.44	34.3	13.85	37.94	101	5	P	V
		5855.5	53.52	-57.14	110.66	43.31	34.3	13.85	37.94	101	5	P	V
		5895.25	54.75	-35.43	90.18	44.48	34.3	13.91	37.94	101	5	P	V
		5925.5	50.93	-17.27	68.2	40.6	34.3	13.96	37.93	101	5	P	V
													V
													V



WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE40 Partial 242/62 CH 159 5795MHz		5621	58.01	-10.19	68.2	49.29	33.2	13.52	38	282	0	P	H
		5698	65.01	-38.72	103.73	55.98	33.39	13.62	37.98	282	0	P	H
		5720	69.45	-41.35	110.8	60.22	33.56	13.65	37.98	282	0	P	H
		5720	69.45	-41.35	110.8	60.22	33.56	13.65	37.98	282	0	P	H
	*	5795	114.98	-	-	105.21	33.98	13.75	37.96	282	0	P	H
	*	5795	105.82	-	-	96.05	33.98	13.75	37.96	282	0	A	H
		5851	79.64	-40.28	119.92	69.45	34.3	13.84	37.95	282	0	P	H
		5855	79.13	-31.67	110.8	68.92	34.3	13.85	37.94	282	0	P	H
		5875.25	69.61	-35.4	105.01	59.37	34.3	13.88	37.94	282	0	P	H
		5933.75	64.52	-3.68	68.2	54.18	34.3	13.97	37.93	282	0	P	H
													H
													H
		5649.25	53.39	-14.81	68.2	44.62	33.2	13.56	37.99	228	39	P	V
		5698.5	60.29	-43.8	104.09	51.26	33.39	13.62	37.98	228	39	P	V
		5717	62.75	-47.21	109.96	53.54	33.54	13.65	37.98	228	39	P	V
		5720.25	63.3	-48.07	111.37	54.07	33.56	13.65	37.98	228	39	P	V
	*	5795	109.74	-	-	99.97	33.98	13.75	37.96	228	39	P	V
	*	5795	101.12	-	-	91.35	33.98	13.75	37.96	228	39	A	V
		5851.25	76.21	-43.14	119.35	66.02	34.3	13.84	37.95	228	39	P	V
		5858.75	75.48	-34.27	109.75	65.27	34.3	13.85	37.94	228	39	P	V
		5877.25	66.29	-37.24	103.53	56.05	34.3	13.88	37.94	228	39	P	V
		5934.5	62.95	-5.25	68.2	52.6	34.3	13.98	37.93	228	39	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 Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE80 Full CH 155 5775MHz		5649.75	62.7	-5.5	68.2	53.93	33.2	13.56	37.99	100	55	P	H
		5697.5	80.89	-22.47	103.36	71.86	33.39	13.62	37.98	100	55	P	H
		5719.25	81.22	-29.37	110.59	72	33.55	13.65	37.98	100	55	P	H
		5722.5	80.92	-35.58	116.5	71.66	33.58	13.66	37.98	100	55	P	H
	*	5775	111.42	-	-	101.75	33.9	13.73	37.96	100	55	P	H
	*	5775	103.26	-	-	93.59	33.9	13.73	37.96	100	55	A	H
		5850.5	74.3	-46.76	121.06	64.11	34.3	13.84	37.95	100	55	P	H
		5862.5	72.98	-35.72	108.7	62.76	34.3	13.86	37.94	100	55	P	H
		5880.25	64.59	-36.71	101.3	54.34	34.3	13.89	37.94	100	55	P	H
		5931	51.86	-16.34	68.2	41.52	34.3	13.97	37.93	100	55	P	H
													H
													H
		5649	58.16	-10.04	68.2	49.39	33.2	13.56	37.99	129	360	P	V
		5695	74.63	-26.88	101.51	65.61	33.38	13.62	37.98	129	360	P	V
		5706.25	79.94	-27.01	106.95	70.84	33.45	13.63	37.98	129	360	P	V
		5725	78.85	-43.35	122.2	69.57	33.6	13.66	37.98	129	360	P	V
	*	5775	106.53	-	-	96.86	33.9	13.73	37.96	129	360	P	V
	*	5775	98.81	-	-	89.14	33.9	13.73	37.96	129	360	A	V
		5854.75	69.8	-41.57	111.37	59.59	34.3	13.85	37.94	129	360	P	V
		5856.25	70.77	-39.68	110.45	60.56	34.3	13.85	37.94	129	360	P	V
		5875	65.84	-39.36	105.2	55.6	34.3	13.88	37.94	129	360	P	V
		5925.75	51.39	-16.81	68.2	41.06	34.3	13.96	37.93	129	360	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)

[illegible]



Band 4 5725~5850MHz

WIFI 802.11ax HE80_Partial 484 (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE80 Partial 484/65 CH 155 5775MHz		5648	65.61	-2.59	68.2	56.85	33.2	13.55	37.99	295	360	P	H
		5677	68.47	-19.75	88.22	59.56	33.31	13.59	37.99	295	360	P	H
		5717.5	76.84	-33.26	110.1	67.63	33.54	13.65	37.98	295	360	P	H
		5721.25	77.69	-35.96	113.65	68.45	33.57	13.65	37.98	295	360	P	H
	*	5775	110.7	-	-	101.03	33.9	13.73	37.96	295	360	P	H
	*	5775	101.41	-	-	91.74	33.9	13.73	37.96	295	360	A	H
		5851.75	72	-46.21	118.21	61.81	34.3	13.84	37.95	295	360	P	H
		5867.75	74.68	-32.55	107.23	64.45	34.3	13.87	37.94	295	360	P	H
		5877.25	72.36	-31.17	103.53	62.12	34.3	13.88	37.94	295	360	P	H
		5944	62.9	-5.3	68.2	52.53	34.3	13.99	37.92	295	360	P	H
													H
													H
		5643.75	59.51	-8.69	68.2	50.76	33.2	13.55	38	111	356	P	V
		5665.25	63.37	-16.15	79.52	54.52	33.26	13.58	37.99	111	356	P	V
		5720	70.63	-40.17	110.8	61.4	33.56	13.65	37.98	111	356	P	V
		5724	71.85	-48.07	119.92	62.58	33.59	13.66	37.98	111	356	P	V
	*	5775	104.22	-	-	94.55	33.9	13.73	37.96	111	356	P	V
	*	5775	94.35	-	-	84.68	33.9	13.73	37.96	111	356	A	V
		5855	65.12	-45.68	110.8	54.91	34.3	13.85	37.94	111	356	P	V
		5874.5	67.8	-37.54	105.34	57.56	34.3	13.88	37.94	111	356	P	V
		5877.25	66.44	-37.09	103.53	56.2	34.3	13.88	37.94	111	356	P	V
		5930.25	57.32	-10.88	68.2	46.98	34.3	13.97	37.93	111	356	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE80 Partial 484/66 CH 155 5775MHz		5648	66.37	-1.83	68.2	57.61	33.2	13.55	37.99	237	38	P	H
		5666.75	69.55	-11.08	80.63	60.69	33.27	13.58	37.99	237	38	P	H
		5717.25	76.78	-33.25	110.03	67.57	33.54	13.65	37.98	237	38	P	H
		5725	76.94	-45.26	122.2	67.66	33.6	13.66	37.98	237	38	P	H
	*	5775	109.61	-	-	99.94	33.9	13.73	37.96	237	38	P	H
	*	5775	101.41	-	-	91.74	33.9	13.73	37.96	237	38	A	H
		5853.5	68.84	-45.38	114.22	58.64	34.3	13.85	37.95	237	38	P	H
		5867.5	71.49	-35.81	107.3	61.26	34.3	13.87	37.94	237	38	P	H
		5877.5	69.23	-34.11	103.34	58.99	34.3	13.88	37.94	237	38	P	H
		5942.75	59.54	-8.66	68.2	49.17	34.3	13.99	37.92	237	38	P	H
													H
													H
		5645	62.51	-5.69	68.2	53.76	33.2	13.55	38	100	32	P	V
		5660	64.2	-11.43	75.63	55.38	33.24	13.57	37.99	100	32	P	V
		5706	66.9	-39.98	106.88	57.8	33.45	13.63	37.98	100	32	P	V
		5724.75	69.96	-51.67	121.63	60.68	33.6	13.66	37.98	100	32	P	V
	*	5775	102.33	-	-	92.66	33.9	13.73	37.96	100	32	P	V
	*	5775	95.42	-	-	85.75	33.9	13.73	37.96	100	32	A	V
		5853.5	62.31	-51.91	114.22	52.11	34.3	13.85	37.95	100	32	P	V
		5862.75	64.71	-43.92	108.63	54.49	34.3	13.86	37.94	100	32	P	V
		5877	63.4	-40.31	103.71	53.16	34.3	13.88	37.94	100	32	P	V
		5937.25	56.17	-12.03	68.2	45.82	34.3	13.98	37.93	100	32	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 HE80 Full (SHF @ 1m)

[illegible]

Emission below 1GHz

5GHz WIFI 802.11ax HE80 Full (LF @ 3m)

[illegible]



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 over limit line.
P/A	P eak or A verage
H/V	H orizontal or V ertical



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.	
1+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a		5850	55.45	-18.55	74	54.51	32.22	4.58	35.86	103	308	P	H
CH 157		5850	43.54	-10.46	54	42.6	32.22	4.58	35.86	103	308	A	H
5785MHz													

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 @ 5850MHz:

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 @ 5850MHz:

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

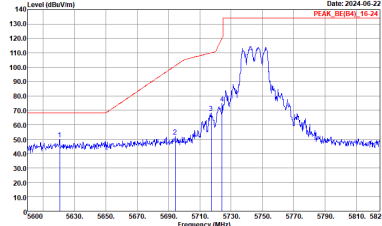
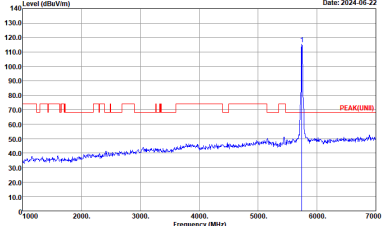
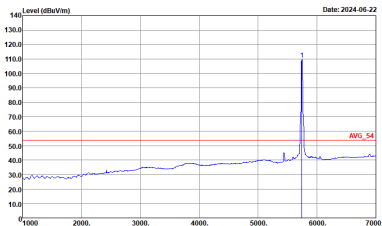
Test Engineer :	John Chuang, David Dai and Sam Chou	Temperature :	19.7~23.5°C
		Relative Humidity :	64.9~70.8%

Note symbol

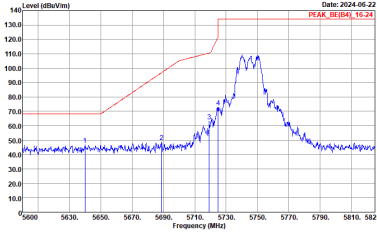
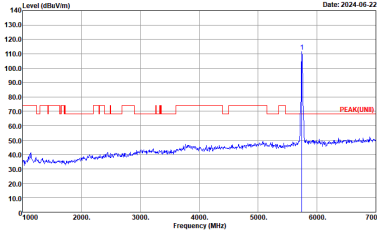
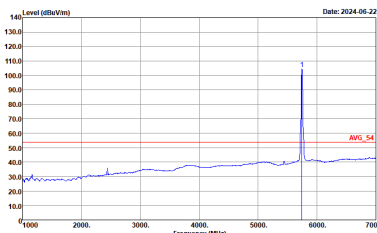
-L	Low channel location
-R	High channel location



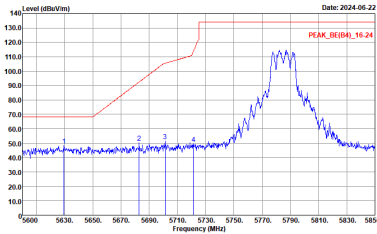
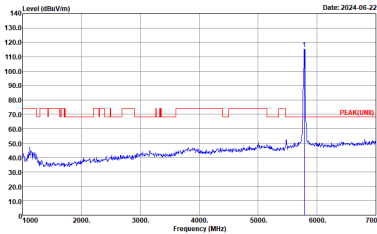
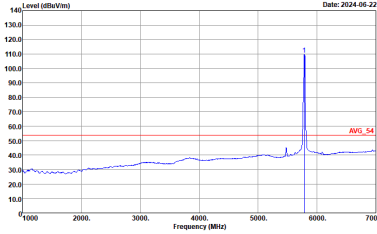
Band 4 - 5725~5850MHz
WIFI 802.11a (Band Edge @ 3m)

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH149 5745MHz	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH20-HY Condition : PEAK_BE[84]_16-24 3m 91200_02360_231030 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH20-HY Condition : PEAK[UNIT] 3m 91200_02360_231030 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg	Left blank	 Site : 03CH20-HY Condition : AVG_54 3m 91200_02360_231030 HORIZONTAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto

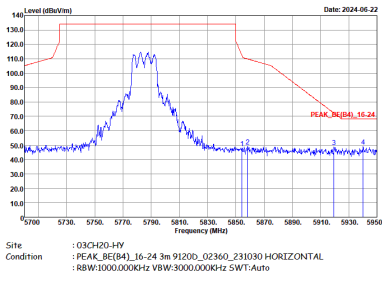


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH149 5745MHz	
1+2	Vertical	Fundamental
Peak	 Site : 03CH20-HY Condition : PEAK_BE(B4)_16-24 3m 91200_02360_231030 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH20-HY Condition : PEAK(LINE) 3m 91200_02360_231030 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg	Left blank	 Site : 03CH20-HY Condition : AVG_54 3m 91200_02360_231030 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto

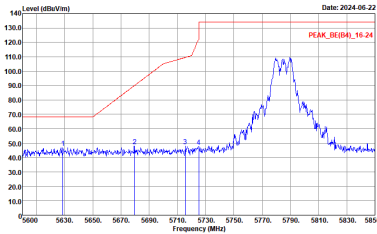
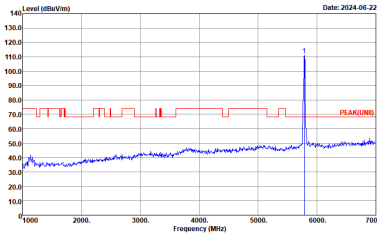
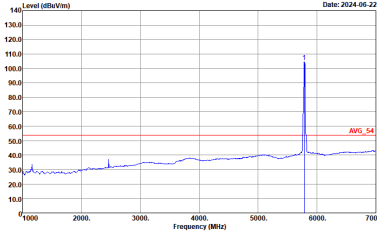


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH157 5785MHz	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH20-HY Condition : PEAK_RE(04)_16-24 3m 91200_02360_231030 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH20-HY Condition : PEAK_LIN(0) 3m 91200_02360_231030 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg	Left blank	 Site : 03CH20-HY Condition : AVG_54 3m 91200_02360_231030 HORIZONTAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto

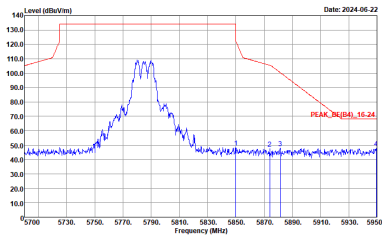


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH157 5785MHz	
1+2	Horizontal	Fundamental
Peak		Left blank

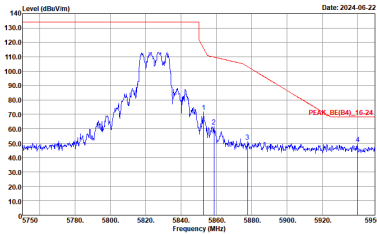
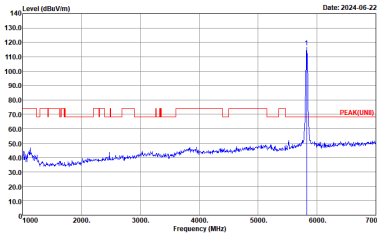
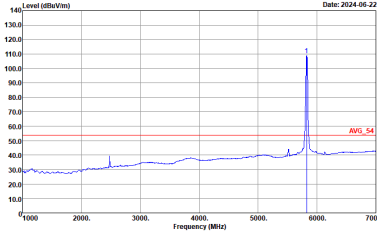


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH157 5785MHz	
1+2	Vertical	Fundamental
Peak	 Site : 03CH20-HY Condition : PEAK_BE[04]_16-24 3m 91200_02360_231030 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH20-HY Condition : PEAK[LINE1] 3m 91200_02360_231030 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg	Left blank	 Site : 03CH20-HY Condition : AVG_54 3m 91200_02360_231030 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto

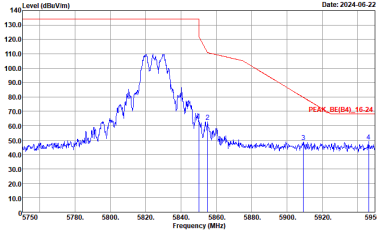
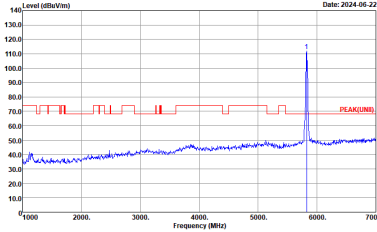
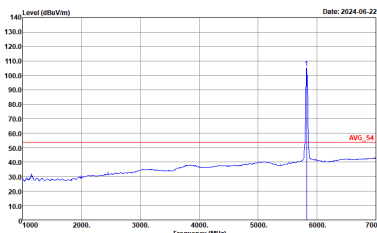


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH157 5785MHz	
1+2	Vertical	Fundamental
Peak	 Site : 09CH20-HV Condition : PEAK_IN(16)_16-24 3m 91200_02360_231030 VERTICAL RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	Left blank



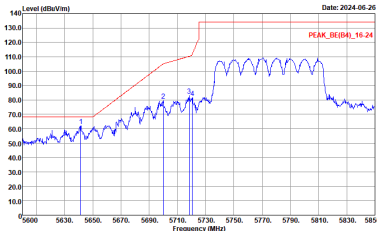
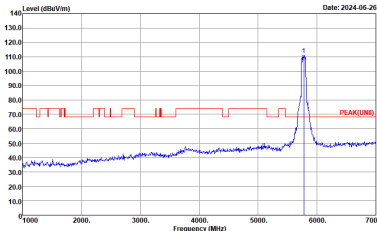
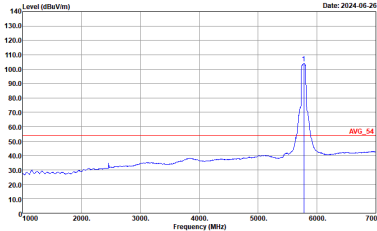
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH165 5825MHz	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH20-HY Condition : PEAK_BC[94]_16-24 3m 91200_02360_231030 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH20-HY Condition : PEAK(LINE1) 3m 91200_02360_231030 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg	Left blank	 Site : 03CH20-HY Condition : AVG_54 3m 91200_02360_231030 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto



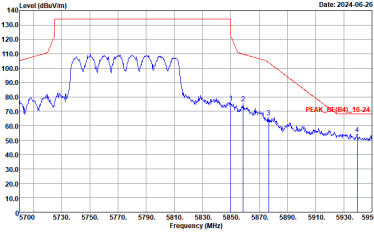
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH165 5825MHz	
1+2	Vertical	Fundamental
Peak	 Site : 03CH20-HY Condition : PEAK_B4_16-24 3m 91200_02360_231030 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH20-HY Condition : PEAK(UMB) 3m 91200_02360_231030 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg	Left blank	 Site : 03CH20-HY Condition : AVG_54 3m 91200_02360_231030 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto



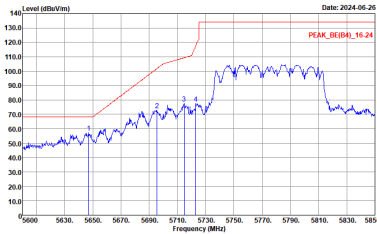
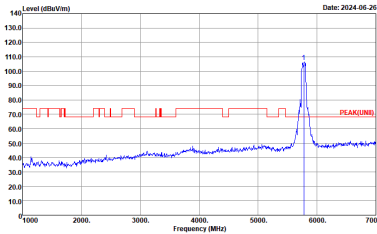
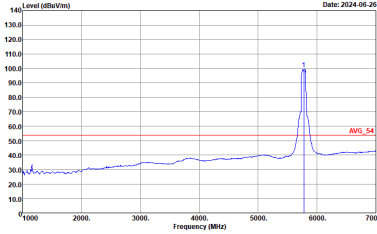
Band 4 5725~5850MHz
WIFI 802.11ac VHT80 (Band Edge @ 3m)

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH155 5775MHz	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH20-HY Condition : PEAK_BE(B4)_16-24 3m 91200_02360_231030 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH20-HY Condition : PEAK(UNB) 3m 91200_02360_231030 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
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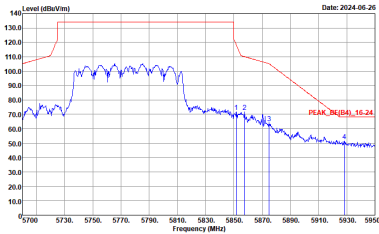


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH155 5775MHz	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH20-HV Condition : PEAK_IN(B4)_16-24 3m 91200_02360_231030 HORIZONTAL RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	Left blank



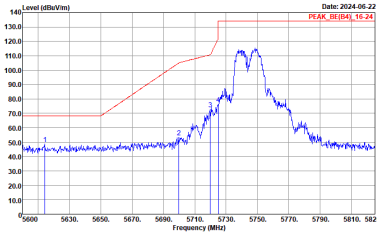
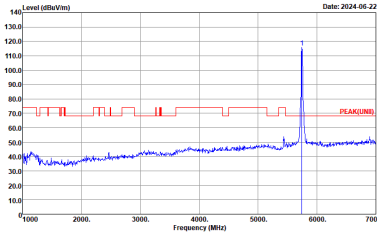
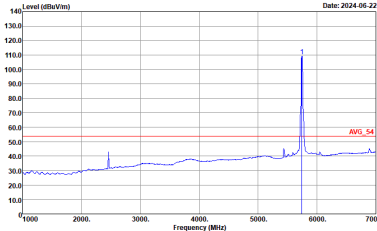
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH155 5775MHz	
1+2	Vertical	Fundamental
Peak	 Site : 03CH20-HY Condition : PEAK_BE[94]_16-24 3m 91200_02360_231030 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH20-HY Condition : PEAK[LINE] 3m 91200_02360_231030 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg	Left blank	 Site : 03CH20-HY Condition : AVG_54 3m 91200_02360_231030 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto



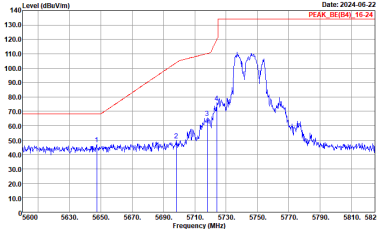
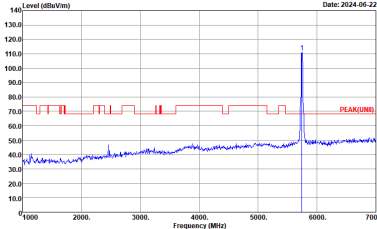
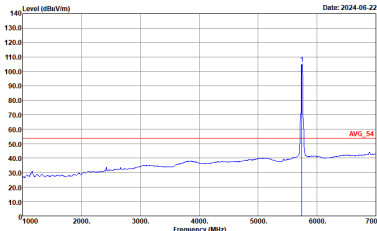
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH155 5775MHz	
1+2	Vertical	Fundamental
Peak	 Site : 09CH20-HV Condition : PEAK_16-24 3m 91200_02360_231030 VERTICAL RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	Left blank



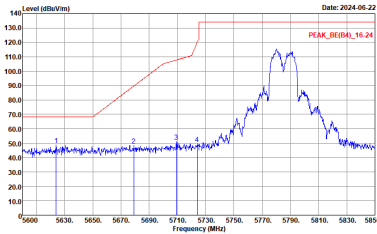
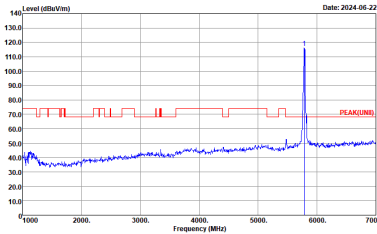
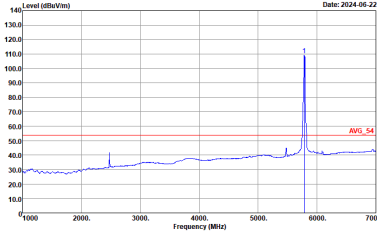
Band 4 - 5725~5850MHz
WIFI 802.11ax HE20 Full (Band Edge @ 3m)

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH149 5745MHz	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH20-HY Condition : PEAK_BE(84)_16-24 3m 91200_02360_231030 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH20-HY Condition : PEAK(UNIT) 3m 91200_02360_231030 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg	Left blank	 Site : 03CH20-HY Condition : AVG_54 3m 91200_02360_231030 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto

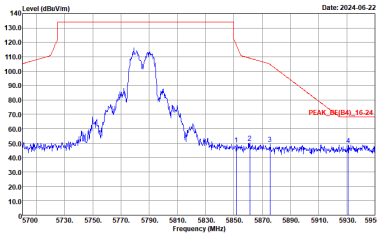


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH149 5745MHz	
1+2	Vertical	Fundamental
Peak	 Site : 03CH20-HY Condition : PEAK_BE(B4)_16-24 3m 91200_02360_231030 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH20-HY Condition : PEAK(LINE) 3m 91200_02360_231030 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg	Left blank	 Site : 03CH20-HY Condition : AVG_54 3m 91200_02360_231030 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto

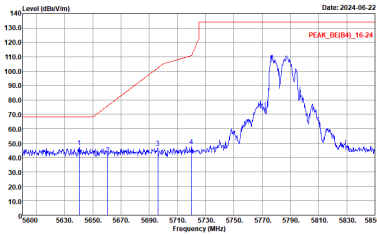
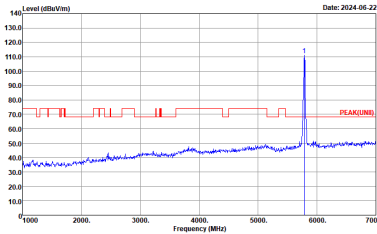
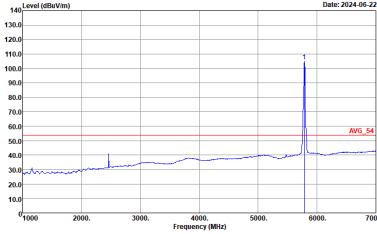


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH157 5785MHz	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH20-HY Condition : PEAK_BE(B4)_16-24 3m 91200_02360_231030 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH20-HY Condition : PEAK(LINE) 3m 91200_02360_231030 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg	Left blank	 Site : 03CH20-HY Condition : AVG_54 3m 91200_02360_231030 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto

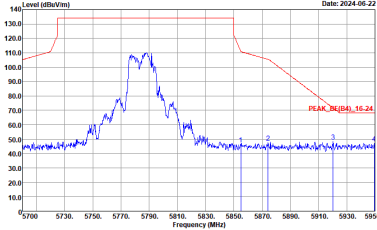


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH157 5785MHz	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH20-HV Condition : PEAK_IN(16-24) 3m 91200_02360_231030-HORIZONTAL RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	Left blank

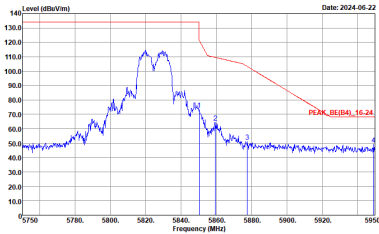
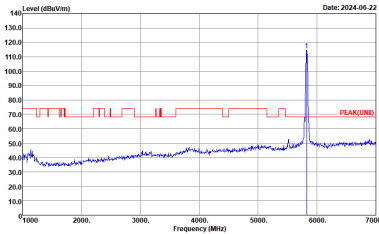
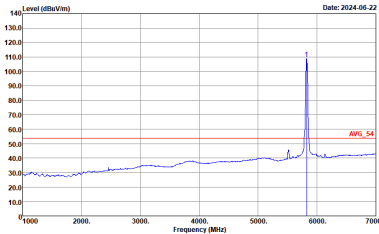


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH157 5785MHz	
1+2	Vertical	Fundamental
Peak	 Site : 03CH20-HY Condition : PEAK_BE[04]_16-24 3m 91200_02360_231030 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH20-HY Condition : PEAK[LINE1] 3m 91200_02360_231030 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg	Left blank	 Site : 03CH20-HY Condition : AV6_54 3m 91200_02360_231030 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto

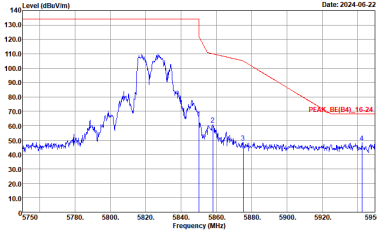
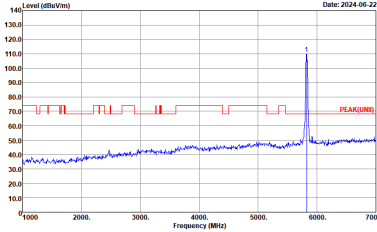
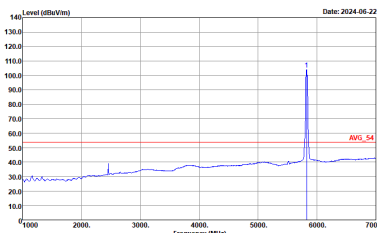


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH157 5785MHz	
1+2	Vertical	Fundamental
Peak	 Site : 03CH20-HV Condition : PEAK_IN[04]_16-24 3m 91200_02360_231030 VERTICAL RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	Left blank



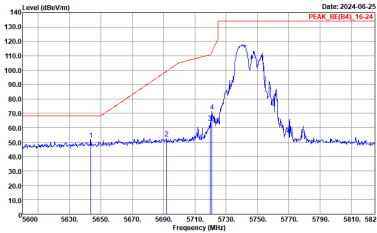
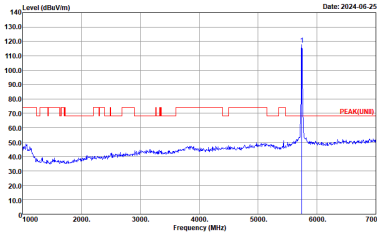
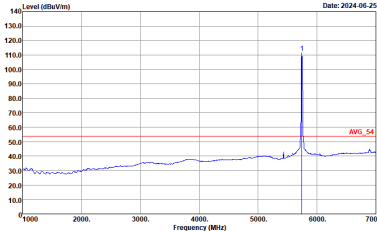
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH165 5825MHz	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH20-HY Condition : PEAK_B4_16-24 3m 91200_02360_231030 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH20-HY Condition : PEAK_UWB 3m 91200_02360_231030 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg	Left blank	 Site : 03CH20-HY Condition : AVG_54 3m 91200_02360_231030 HORIZONTAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto



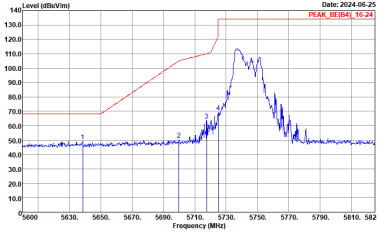
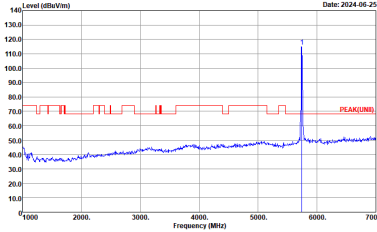
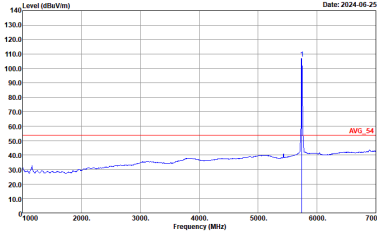
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH165 5825MHz	
1+2	Vertical	Fundamental
Peak	 Site : 03CH20-HY Condition : PEAK_8C[94]_16-24 3m 91200_02360_231030 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH20-HY Condition : PEAK(LINE1) 3m 91200_02360_231030 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg	Left blank	 Site : 03CH20-HY Condition : AVG_54 3m 91200_02360_231030 VERTICAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto



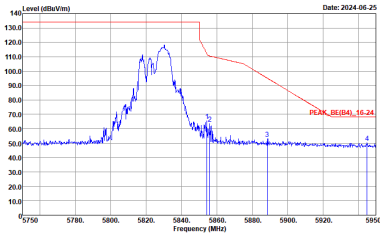
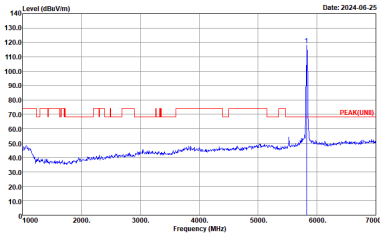
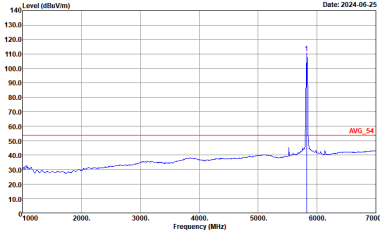
Band 4 5725~5850MHz
WIFI 802.11ax HE20 Partial 106 (Band Edge @ 3m)

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE20 Partial 106/53 CH149 5745MHz	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH20-HY Condition : PEAK_BE(84)_16-24 3m 91200_02360_231030 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH20-HY Condition : PEAK(UNIT) 3m 91200_02360_231030 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
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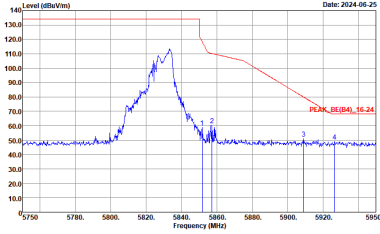
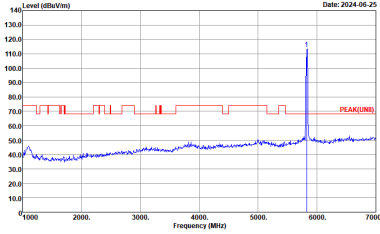
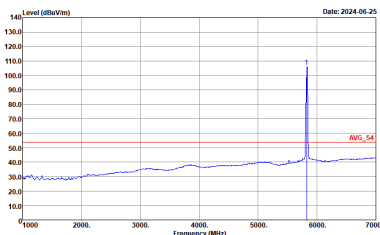


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE20 Partial 106/53 CH149 5745MHz	
1+2	Vertical	Fundamental
Peak	 Site : 03CH20-HY Condition : PEAK_BE[94]_16-24 3m 91200_02360_231030 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH20-HY Condition : PEAK(LINE1) 3m 91200_02360_231030 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg	Left blank	 Site : 03CH20-HY Condition : AVG_54 3m 91200_02360_231030 VERTICAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto



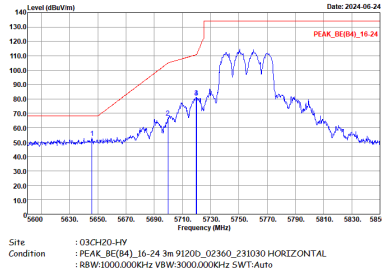
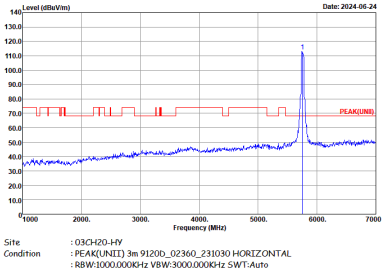
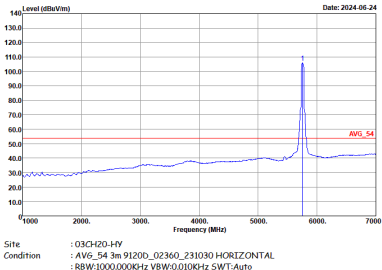
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE20 Partial 106/54 CH165 5825MHz	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH20-HY Condition : PEAK_80.04_16-24 3m 91200_02360_231030 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH20-HY Condition : PEAK_UMB 3m 91200_02360_231030 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg	Left blank	 Site : 03CH20-HY Condition : AVG_54 3m 91200_02360_231030 HORIZONTAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto



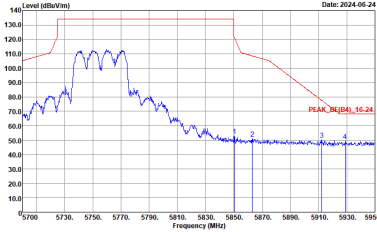
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE20 Partial 106/54 CH165 5825MHz	
1+2	Vertical	Fundamental
Peak	 Site : 03CH20-HY Condition : PEAK_86(04)_16-24 3m 91200_02360_231030 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH20-HY Condition : PEAK_UMB 3m 91200_02360_231030 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg	Left blank	 Site : 03CH20-HY Condition : AVG_54 3m 91200_02360_231030 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto



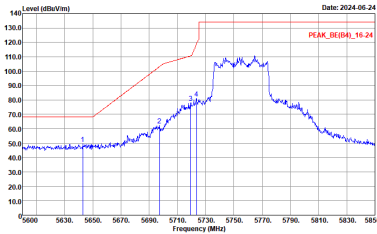
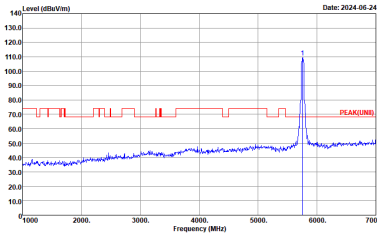
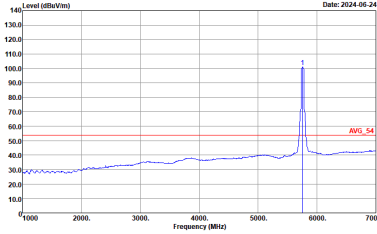
Band 4 5725~5850MHz
WIFI 802.11ax HE40 Full (Band Edge @ 3m)

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH151 5755MHz	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH20-HY Condition : PEAK_BE(B4)_16-24 3m 91200_02360_231030 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH20-HY Condition : PEAK(UNII) 3m 91200_02360_231030 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg	Left blank	 Site : 03CH20-HY Condition : AVG_54 3m 91200_02360_231030 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto

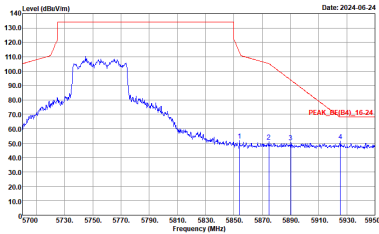


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH151 5755MHz	
1+2	Horizontal	Fundamental
Peak	 Site : 09CH20-HV Condition : PEAK_BC(B4)_16-24 3m 91200_02360_231030 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank

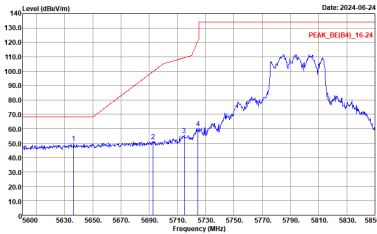
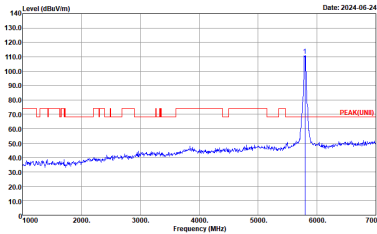
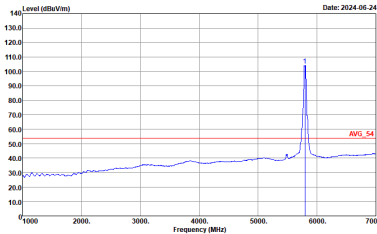


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH151 5755MHz	
1+2	Vertical	Fundamental
Peak	 Site : 03CH20-HY Condition : PEAK_BE[94]_16-24 3m 91200_02360_231030 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH20-HY Condition : PEAK[LINE1] 3m 91200_02360_231030 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
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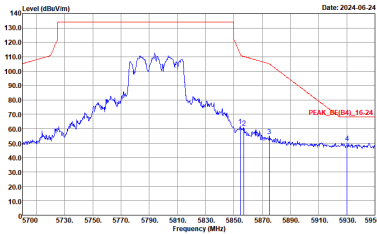


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH151 5755MHz	
1+2	Vertical	Fundamental
Peak	 Site : 09CH20-HV Condition : PEAK_IN(16-24) 3m 91200_02360_231030 VERTICAL RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	Left blank

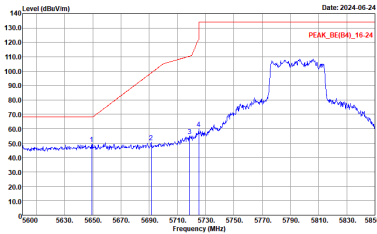
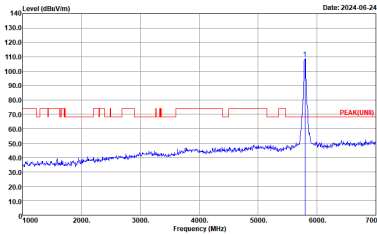
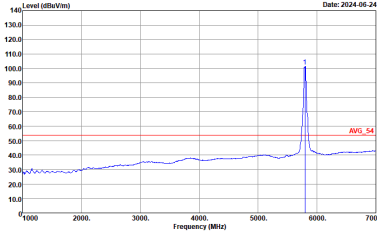


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full HT40 CH159 5795MHz	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH20-HY Condition : PEAK_BE(B4)_16-24 3m 91200_02360_231030 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH20-HY Condition : PEAK(FUND) 3m 91200_02360_231030 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg	Left blank	 Site : 03CH20-HY Condition : AVG_54 3m 91200_02360_231030 HORIZONTAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto

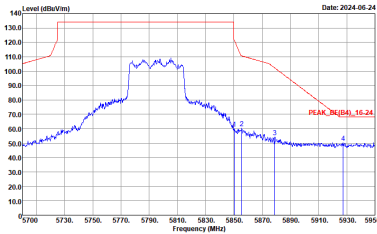


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full HT40 CH159 5795MHz	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH20-HV Condition : PEAK_IN[04]_16-24 3m 91200_02360_231030-HORIZONTAL RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	Left blank



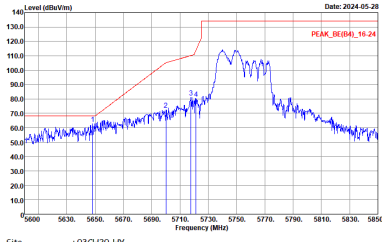
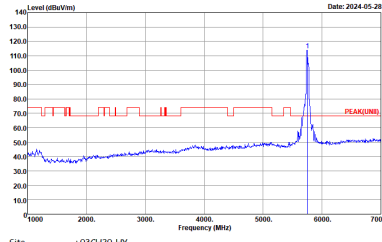
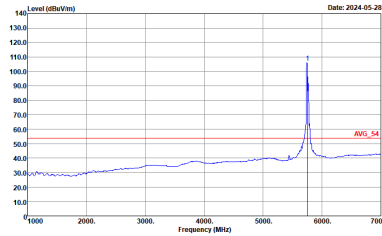
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH159 5795MHz	
1+2	Vertical	Fundamental
Peak	 Site : 03CH20-HY Condition : PEAK_BE(B4)_16-24 3m 91200_02360_231030 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH20-HY Condition : PEAK(LINE) 3m 91200_02360_231030 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg	Left blank	 Site : 03CH20-HY Condition : AVG_54 3m 91200_02360_231030 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto



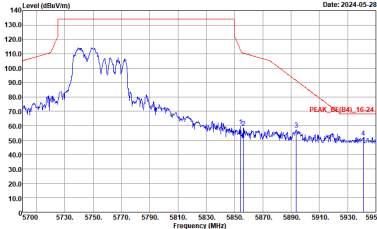
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH159 5795MHz	
1+2	Vertical	Fundamental
Peak	 Site : 09CH20-HV Condition : PEAK_IN(B4)_16-24 3m 91200_02360_231030 VERTICAL RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	Left blank



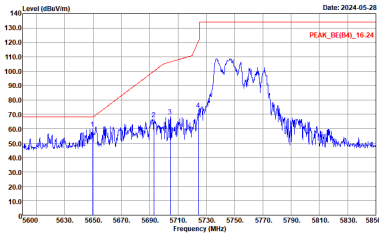
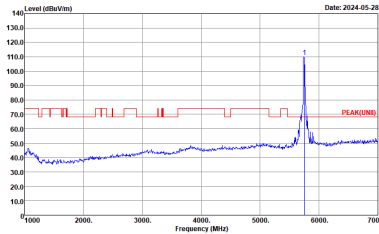
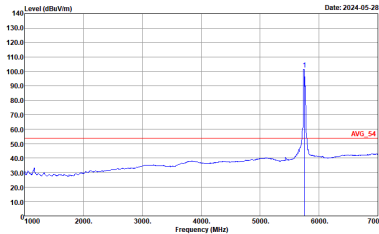
Band 4 5725~5850MHz
WIFI 802.11ax HE40 Partial 242 (Band Edge @ 3m)

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE40 Partial 242/61 CH151 5755MHz	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH20-HY Condition : PEAK_BE(B4)_16-24 3m 91200_02360_231030 HORIZONTAL : RBW:1000.000KHz VSW:3000.000KHz SWT:Auto	 Site : 03CH20-HY Condition : PEAK(UNII) 3m 91200_02360_231030 HORIZONTAL : RBW:1000.000KHz VSW:3000.000KHz SWT:Auto
Avg	Left blank	 Site : 03CH20-HY Condition : AVG_54 3m 91200_02360_231030 HORIZONTAL : RBW:1000.000KHz VSW:3000.000KHz SWT:Auto

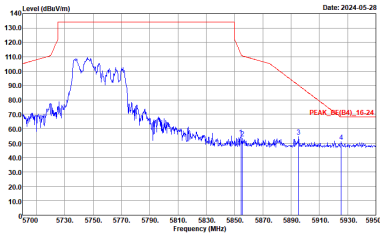


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE40 Partial 242/61 CH151 5755MHz	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH20-HY Condition : PEAK_16(16)_16-24 3m 91200_02360_231030 HORIZONTAL RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	Left blank

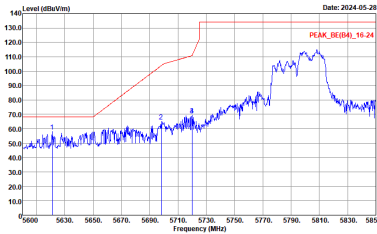
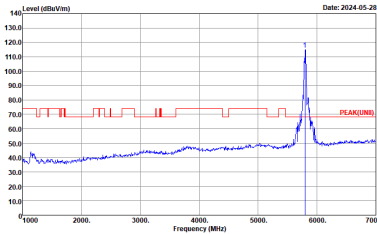
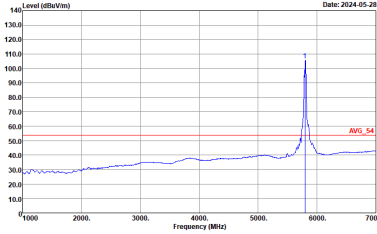


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE40 Partial 242/61 CH151 5755MHz	
1+2	Vertical	Fundamental
Peak	 Site : 03CH20-HY Condition : PEAK_8C[84]_16-24 3m 91200_02360_231030 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH20-HY Condition : PEAK[LINE1] 3m 91200_02360_231030 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg	Left blank	 Site : 03CH20-HY Condition : AVG_54 3m 91200_02360_231030 VERTICAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto

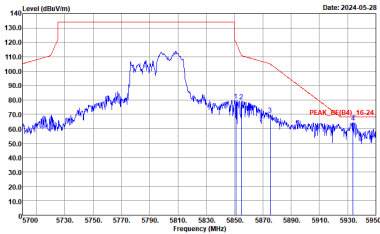


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE40 Partial 242/61 CH151 5755MHz	
1+2	Vertical	Fundamental
Peak	 Site : 03CH20-HV Condition : PEAK_16(16)_16-24 3m 91200_02360_231030 VERTICAL RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	Left blank

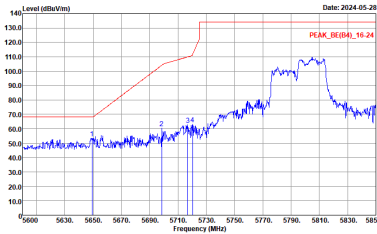
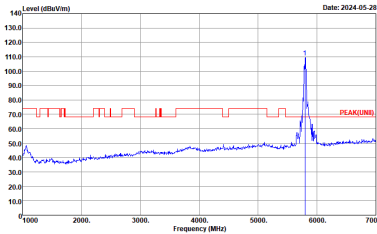
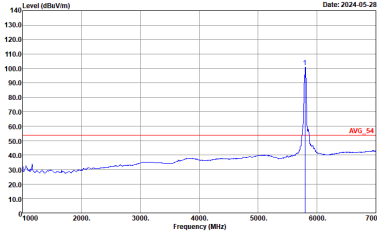


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE40 Partial 242/62 CH159 5795MHz	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH20-HY Condition : PEAK_RE(04)_16-24 3m 91200_02360_231030 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH20-HY Condition : PEAK(LINE) 3m 91200_02360_231030 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg	Left blank	 Site : 03CH20-HY Condition : AVG_54 3m 91200_02360_231030 HORIZONTAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto

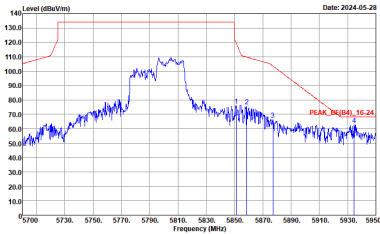


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE40 Partial 242/62 CH159 5795MHz	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH20-HV Condition : PEAK_96(94)_16-24 3m 91200_02360_231030 HORIZONTAL RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	Left blank



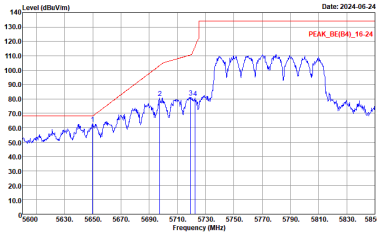
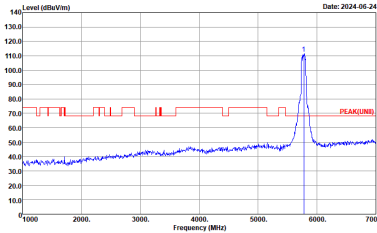
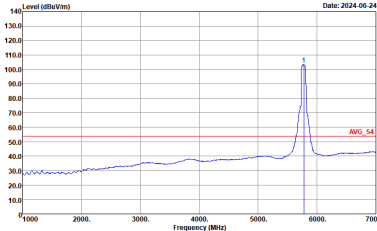
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE40 Partial 242/62 CH159 5795MHz	
1+2	Vertical	Fundamental
Peak	 Site : 03CH20-HY Condition : PEAK_8C[04]_16-24 3m 91200_02360_231030 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH20-HY Condition : PEAK(LINE1) 3m 91200_02360_231030 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg	Left blank	 Site : 03CH20-HY Condition : AV6_54 3m 91200_02360_231030 VERTICAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto



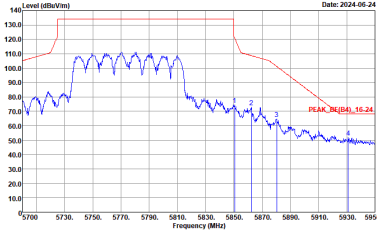
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE40 Partial 242/62 CH159 5795MHz	
1+2	Vertical	Fundamental
Peak	 Site : 03CH20-HV Condition : PEAK_34(04)_16-24 3m 91200_02360_231030 VERTICAL RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	Left blank



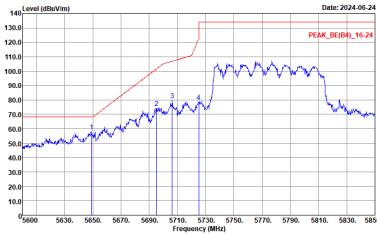
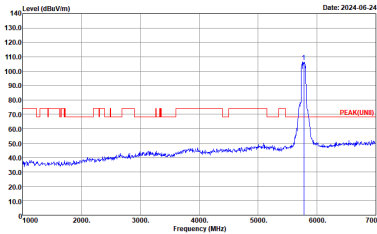
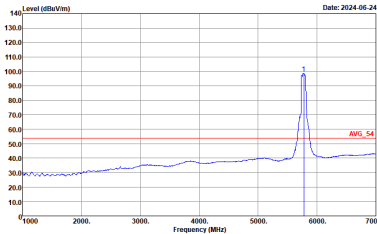
Band 4 5725~5850MHz
WIFI 802.11ax HE80 Full (Band Edge @ 3m)

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE80 Full CH155 5775MHz	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH20-HY Condition : PEAK_BE(84)_16-24 3m 91200_02360_231030 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH20-HY Condition : PEAK(UNIT) 3m 91200_02360_231030 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg	Left blank	 Site : 03CH20-HY Condition : AVG_54 3m 91200_02360_231030 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto

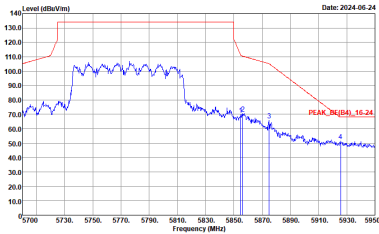


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE80 Full CH155 5775MHz	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH20-HV Condition : : PEAK_IN(B4)_16-24 3m 91200_02360_231030 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	Left blank



WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE80 Full CH155 5775MHz	
1+2	Vertical	Fundamental
Peak	 Site : 03CH20-HY Condition : PEAK_BE(04)_16-24 3m 91200_02360_231030 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH20-HY Condition : PEAK(UNB) 3m 91200_02360_231030 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg	Left blank	 Site : 03CH20-HY Condition : AVG_54 3m 91200_02360_231030 VERTICAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto

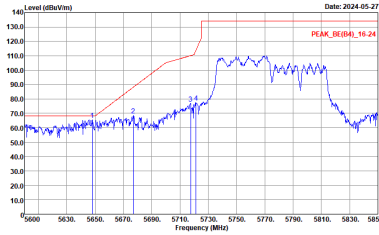
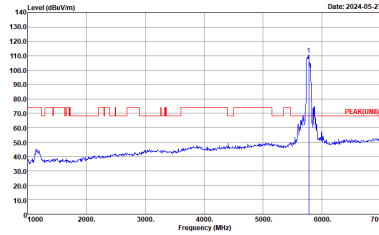
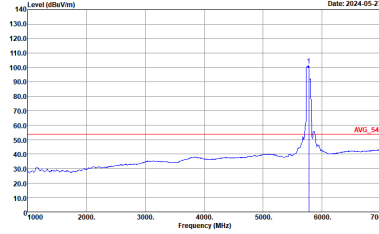


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE80 Full CH155 5775MHz	
1+2	Vertical	Fundamental
Peak	 Site : 09CH20-HV Condition : PEAK_BC[94]_16-24 3m 91200_02360_231030 VERTICAL RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	Left blank

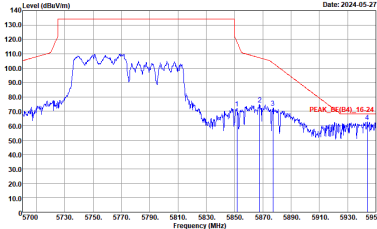


Band 4 5725~5850MHz

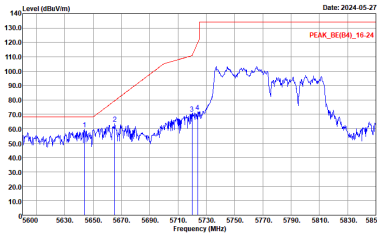
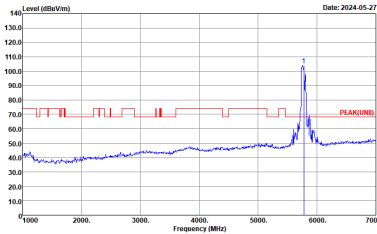
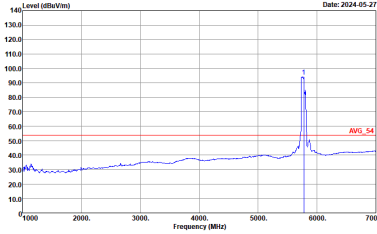
WIFI 802.11ax HE80 Partial 484 (Band Edge @ 3m)

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE80 Partial 484/65 CH155 5775MHz	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH20-HY Condition : PEAK_BE(84)_16-24 3m 91200_02360_231030 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH20-HY Condition : PEAK(UNII) 3m 91200_02360_231030 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg	Left blank	 Site : 03CH20-HY Condition : AVG_54 3m 91200_02360_231030 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto

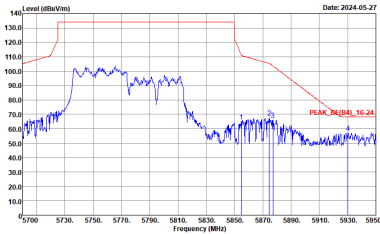


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE80 Partial 484/65 CH155 5775MHz	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH20-HV Condition : PEAK_16(16)_16-24 3m 91200_02360_231030 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank

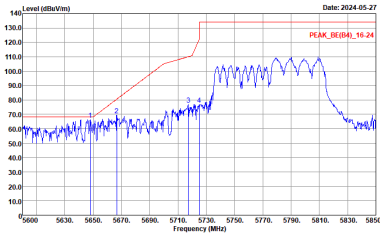
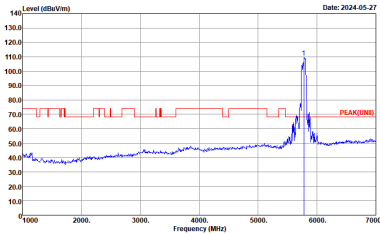
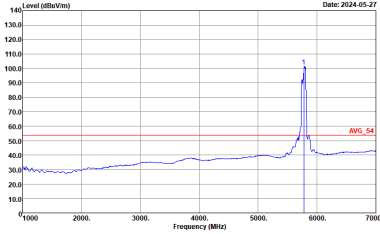


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE80 Partial 484/65 CH155 5775MHz	
1+2	Vertical	Fundamental
Peak	 Site : 03CH20-HY Condition : PEAK_RE(04)_16-24 3m 91200_02360_231030 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH20-HY Condition : PEAK_L(04)_16-24 3m 91200_02360_231030 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg	Left blank	 Site : 03CH20-HY Condition : AVG_54 3m 91200_02360_231030 VERTICAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto

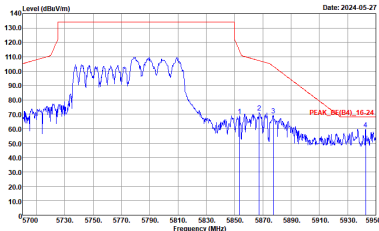


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE80 Partial 484/65 CH155 5775MHz	
1+2	Vertical	Fundamental
Peak	 Site : 03CH20-HY Condition : PEAK_16(04)_16-24 3m 91200_02360_231030 VERTICAL RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	Left blank

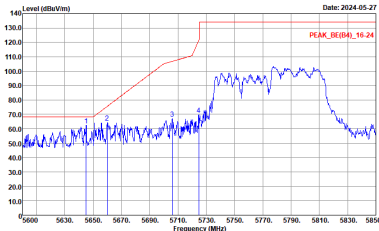
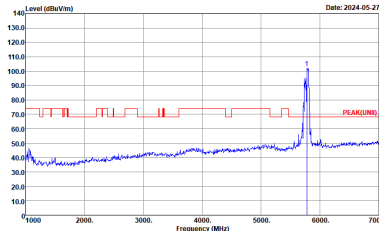
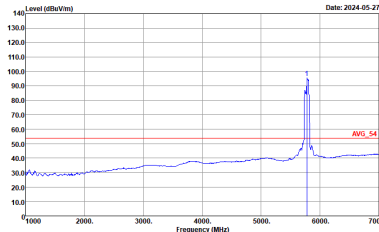


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE80 Partial 484/66 CH155 5775MHz	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH20-HY Condition : PEAK_RE(04)_16-24 3m 91200_02360_231030 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH20-HY Condition : PEAK(LINE) 3m 91200_02360_231030 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg	Left blank	 Site : 03CH20-HY Condition : AVG_54 3m 91200_02360_231030 HORIZONTAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto

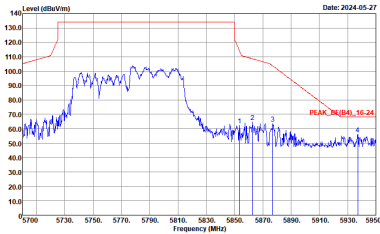


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE80 Partial 484/66 CH155 5775MHz	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH20-HY Condition : PEAK_94(04)_16-24 3m 91200_02360_231030 HORIZONTAL RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	Left blank



WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE80 Partial 484/66 CH155 5775MHz	
1+2	Vertical	Fundamental
Peak	 Site : 03CH20-HY Condition : PEAK_RE(04)_16-24 3m 91200_02360_231030 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH20-HY Condition : PEAK_LIN(0) 3m 91200_02360_231030 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg	Left blank	 Site : 03CH20-HY Condition : AVG_54 3m 91200_02360_231030 VERTICAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto



WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE80 Partial 484/66 CH155 5775MHz	
1+2	Vertical	Fundamental
Peak	 Site : 03CH20-HY Condition : PEAK_16(04)_16-24 3m 91200_02360_231030 VERTICAL RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	Left blank



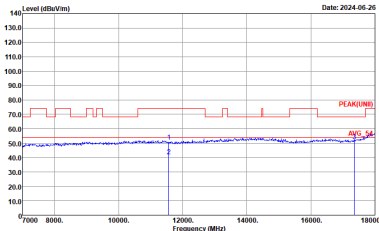
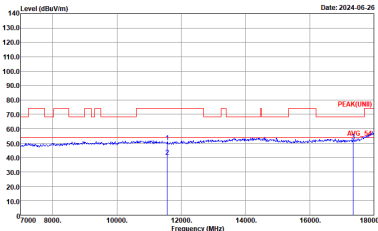
Band 4 - 5725~5850MHz
WIFI 802.11a (Harmonic @ 3m)

WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11a CH149 5745MHz	
1+2	Horizontal	Vertical
Peak Avg.	Level (dBuV/m) Date: 2024-05-28 Site : 03CH20-HY Condition : PEAK(UNIT) 3m 91200_02360_231030 HORIZONTAL	Level (dBuV/m) Date: 2024-05-28 Site : 03CH20-HY Condition : PEAK(UNIT) 3m 91200_02360_231030 VERTICAL



WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11a CH149 5745MHz	
1+2	Horizontal	Vertical
14.47G ~14.5G Avg.	Level (dBuV/m) vs Frequency (MHz) plot for Horizontal polarization. The y-axis ranges from 10.0 to 140.0 dBuV/m, and the x-axis ranges from 14470 to 14500 MHz. A red line indicates the average level (AVG_54) at approximately 55 dBuV/m. The plot shows a flat spectrum with minor noise. Date: 2024-05-28. Site : 03CH20-HY Condition : AV6_54 3m 91200_02360_231030 HORIZONTAL :	Level (dBuV/m) vs Frequency (MHz) plot for Vertical polarization. The y-axis ranges from 10.0 to 140.0 dBuV/m, and the x-axis ranges from 14470 to 14500 MHz. A red line indicates the average level (AVG_54) at approximately 55 dBuV/m. The plot shows a flat spectrum with minor noise. Date: 2024-05-28. Site : 03CH20-HY Condition : AV6_54 3m 91200_02360_231030 VERTICAL :
	Level (dBuV/m) vs Frequency (MHz) plot for Horizontal polarization. The y-axis ranges from 10.0 to 140.0 dBuV/m, and the x-axis ranges from 17700 to 18000 MHz. A red line indicates the average level (AVG_54) at approximately 55 dBuV/m. The plot shows a flat spectrum with minor noise. Date: 2024-05-28. Site : 03CH20-HY Condition : AV6_54 3m 91200_02360_231030 HORIZONTAL :	Level (dBuV/m) vs Frequency (MHz) plot for Vertical polarization. The y-axis ranges from 10.0 to 140.0 dBuV/m, and the x-axis ranges from 17700 to 18000 MHz. A red line indicates the average level (AVG_54) at approximately 55 dBuV/m. The plot shows a flat spectrum with minor noise. Date: 2024-05-28. Site : 03CH20-HY Condition : AV6_54 3m 91200_02360_231030 VERTICAL :

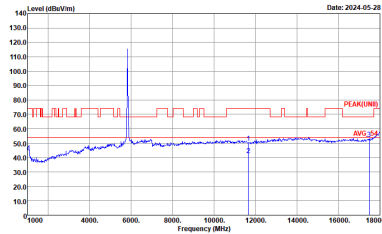
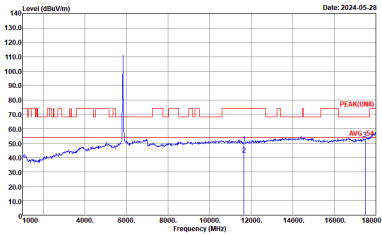


WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11a CH157 5785MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH20-HY Condition : PEAK(UNIT) 3m 91200_02360_231030 HORIZONTAL :-	 Site : 03CH20-HY Condition : PEAK(UNIT) 3m 91200_02360_231030 VERTICAL :-



WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11a CH157 5785MHz	
1+2	Horizontal	Vertical
14.47G ~14.5G Avg.	Level (dBuV/m) vs Frequency (MHz) plot for Horizontal polarization. The y-axis ranges from 10.0 to 140.0 dBuV/m, and the x-axis ranges from 14470 to 14500 MHz. A red line labeled 'AVG_54' is at approximately 55 dBuV/m. The plot shows a flat line with minor noise. Date: 2024-06-26 Site : 03CH20-HY Condition : AV6_54 3m 91200_02360_231030 HORIZONTAL :	Level (dBuV/m) vs Frequency (MHz) plot for Vertical polarization. The y-axis ranges from 10.0 to 140.0 dBuV/m, and the x-axis ranges from 14470 to 14500 MHz. A red line labeled 'AVG_54' is at approximately 55 dBuV/m. The plot shows a flat line with minor noise. Date: 2024-06-26 Site : 03CH20-HY Condition : AV6_54 3m 91200_02360_231030 VERTICAL :
	Level (dBuV/m) vs Frequency (MHz) plot for Horizontal polarization. The y-axis ranges from 10.0 to 140.0 dBuV/m, and the x-axis ranges from 17700 to 18000 MHz. A red line labeled 'AVG_54' is at approximately 55 dBuV/m. The plot shows a flat line with minor noise. Date: 2024-06-26 Site : 03CH20-HY Condition : AV6_54 3m 91200_02360_231030 HORIZONTAL :	Level (dBuV/m) vs Frequency (MHz) plot for Vertical polarization. The y-axis ranges from 10.0 to 140.0 dBuV/m, and the x-axis ranges from 17700 to 18000 MHz. A red line labeled 'AVG_54' is at approximately 55 dBuV/m. The plot shows a flat line with minor noise. Date: 2024-06-26 Site : 03CH20-HY Condition : AV6_54 3m 91200_02360_231030 VERTICAL :
17.7G ~18G Avg		



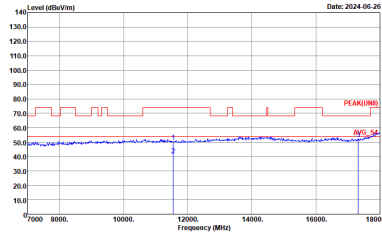
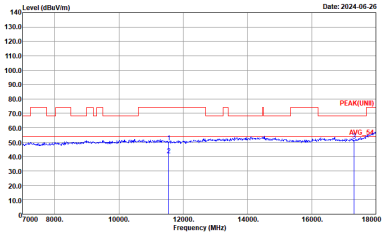
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11a CH165 5825MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH20-HY Condition : PEAK(UNIT) 3m 91200_02360_231030 HORIZONTAL :	 Site : 03CH20-HY Condition : PEAK(UNIT) 3m 91200_02360_231030 VERTICAL :



WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11a CH165 5825MHz	
1+2	Horizontal	Vertical
14.47G ~14.5G Avg.	Level (dBuV/m) vs Frequency (MHz) plot for Horizontal polarization. The y-axis ranges from 10.0 to 140.0 dBuV/m, and the x-axis ranges from 14470 to 14500 MHz. A red line labeled 'AVG_54' is at approximately 55 dBuV/m. The plot shows a flat spectrum with noise floor around 40 dBuV/m. Site : 03CH20-HY Condition : AV6_54 3m 91200_02360_231030 HORIZONTAL :	Level (dBuV/m) vs Frequency (MHz) plot for Vertical polarization. The y-axis ranges from 10.0 to 140.0 dBuV/m, and the x-axis ranges from 14470 to 14500 MHz. A red line labeled 'AVG_54' is at approximately 55 dBuV/m. The plot shows a flat spectrum with noise floor around 40 dBuV/m. Site : 03CH20-HY Condition : AV6_54 3m 91200_02360_231030 VERTICAL :
	Level (dBuV/m) vs Frequency (MHz) plot for Horizontal polarization. The y-axis ranges from 10.0 to 140.0 dBuV/m, and the x-axis ranges from 17700 to 18000 MHz. A red line labeled 'AVG_54' is at approximately 55 dBuV/m. The plot shows a flat spectrum with noise floor around 40 dBuV/m. Site : 03CH20-HY Condition : AV6_54 3m 91200_02360_231030 HORIZONTAL :	Level (dBuV/m) vs Frequency (MHz) plot for Vertical polarization. The y-axis ranges from 10.0 to 140.0 dBuV/m, and the x-axis ranges from 17700 to 18000 MHz. A red line labeled 'AVG_54' is at approximately 55 dBuV/m. The plot shows a flat spectrum with noise floor around 40 dBuV/m. Site : 03CH20-HY Condition : AV6_54 3m 91200_02360_231030 VERTICAL :
17.7G ~18G Avg		



Band 4 5725~5850MHz
WIFI 802.11ac VHT80 (Harmonic @ 3m)

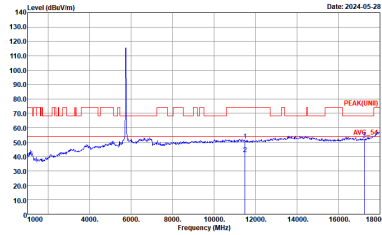
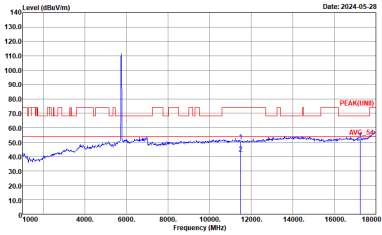
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ac VHT80 CH155 5775MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH20-HY Condition : PEAK(UNIT) 3m 91200_02360_231030 HORIZONTAL :	 Site : 03CH20-HY Condition : PEAK(UNIT) 3m 91200_02360_231030 VERTICAL :



WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ac VHT80 CH155 5775MHz	
1+2	Horizontal	Vertical
14.47G ~14.5G Avg.	Level (dBuV/m) vs Frequency (MHz) plot for Horizontal polarization. The y-axis ranges from 10.0 to 140.0 dBuV/m, and the x-axis ranges from 14470 to 14500 MHz. A red line indicates the average level (AVG_54) at approximately 55 dBuV/m. The plot shows a flat spectrum with noise floor around 40 dBuV/m. Site : 03CH20-HY Condition : AV6_54 3m 91200_02360_231030 HORIZONTAL	Level (dBuV/m) vs Frequency (MHz) plot for Vertical polarization. The y-axis ranges from 10.0 to 140.0 dBuV/m, and the x-axis ranges from 14470 to 14500 MHz. A red line indicates the average level (AVG_54) at approximately 55 dBuV/m. The plot shows a flat spectrum with noise floor around 40 dBuV/m. Site : 03CH20-HY Condition : AV6_54 3m 91200_02360_231030 VERTICAL
	Level (dBuV/m) vs Frequency (MHz) plot for Horizontal polarization. The y-axis ranges from 10.0 to 140.0 dBuV/m, and the x-axis ranges from 17700 to 18000 MHz. A red line indicates the average level (AVG_54) at approximately 55 dBuV/m. The plot shows a flat spectrum with noise floor around 40 dBuV/m. Site : 03CH20-HY Condition : AV6_54 3m 91200_02360_231030 HORIZONTAL	Level (dBuV/m) vs Frequency (MHz) plot for Vertical polarization. The y-axis ranges from 10.0 to 140.0 dBuV/m, and the x-axis ranges from 17700 to 18000 MHz. A red line indicates the average level (AVG_54) at approximately 55 dBuV/m. The plot shows a flat spectrum with noise floor around 40 dBuV/m. Site : 03CH20-HY Condition : AV6_54 3m 91200_02360_231030 VERTICAL



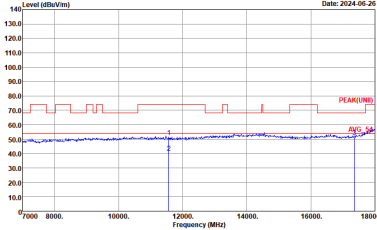
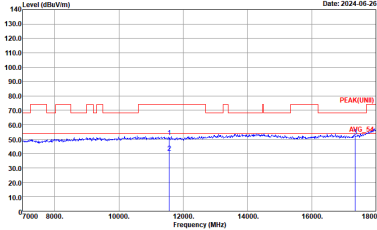
Band 4 - 5725~5850MHz
WIFI 802.11ax HE20 Full (Harmonic @ 3m)

WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ax HE20 Full CH149 5745MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH20-HY Condition : PEAK(UNIT) 3m 91200_02360_231030 HORIZONTAL :	 Site : 03CH20-HY Condition : PEAK(UNIT) 3m 91200_02360_231030 VERTICAL :



WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ax HE20 Full CH149 5745MHz	
1+2	Horizontal	Vertical
14.47G ~14.5G Avg.	Level (dBuV/m) vs Frequency (MHz) plot for Horizontal polarization. The y-axis ranges from 10.0 to 140.0 dBuV/m, and the x-axis ranges from 14470 to 14500 MHz. A red line indicates the average level (AVG_54) at approximately 55 dBuV/m. The plot shows a flat spectrum with minor noise. Date: 2024-05-28. Site : 03CH20-HY Condition : AV6_54 3m 91200_02360_231030 HORIZONTAL	Level (dBuV/m) vs Frequency (MHz) plot for Vertical polarization. The y-axis ranges from 10.0 to 140.0 dBuV/m, and the x-axis ranges from 14470 to 14500 MHz. A red line indicates the average level (AVG_54) at approximately 55 dBuV/m. The plot shows a flat spectrum with minor noise. Date: 2024-05-28. Site : 03CH20-HY Condition : AV6_54 3m 91200_02360_231030 VERTICAL
	Level (dBuV/m) vs Frequency (MHz) plot for Horizontal polarization. The y-axis ranges from 10.0 to 140.0 dBuV/m, and the x-axis ranges from 17700 to 18000 MHz. A red line indicates the average level (AVG_54) at approximately 55 dBuV/m. The plot shows a flat spectrum with minor noise. Date: 2024-05-28. Site : 03CH20-HY Condition : AV6_54 3m 91200_02360_231030 HORIZONTAL	Level (dBuV/m) vs Frequency (MHz) plot for Vertical polarization. The y-axis ranges from 10.0 to 140.0 dBuV/m, and the x-axis ranges from 17700 to 18000 MHz. A red line indicates the average level (AVG_54) at approximately 55 dBuV/m. The plot shows a flat spectrum with minor noise. Date: 2024-05-28. Site : 03CH20-HY Condition : AV6_54 3m 91200_02360_231030 VERTICAL

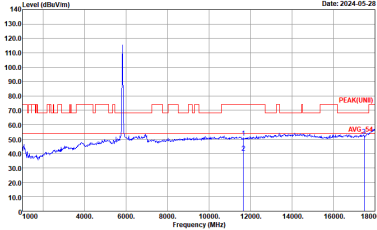
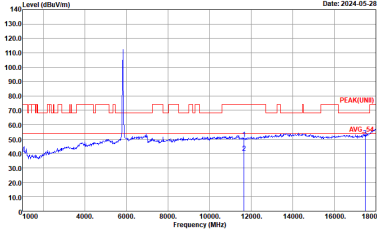


WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ax HE20 Full CH157 5785MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH20-HY Condition : PEAK(UNIT) 3m 91200_02360_231030 HORIZONTAL :	 Site : 03CH20-HY Condition : PEAK(UNIT) 3m 91200_02360_231030 VERTICAL :



WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ax HE20 Full CH157 5785MHz	
1+2	Horizontal	Vertical
14.47G ~14.5G Avg.	Level (dBuV/m) vs Frequency (MHz) plot for Horizontal polarization. The y-axis ranges from 10.0 to 140.0 dBuV/m, and the x-axis ranges from 14470 to 14500 MHz. A red line indicates the average level (AVG_54) at approximately 55 dBuV/m. The plot shows a flat spectrum with minor noise. Date: 2024-06-26. Site : 03CH20-HY Condition : AV6_54 3m 91200_02360_231030 HORIZONTAL :	Level (dBuV/m) vs Frequency (MHz) plot for Vertical polarization. The y-axis ranges from 10.0 to 140.0 dBuV/m, and the x-axis ranges from 14470 to 14500 MHz. A red line indicates the average level (AVG_54) at approximately 55 dBuV/m. The plot shows a flat spectrum with minor noise. Date: 2024-06-26. Site : 03CH20-HY Condition : AV6_54 3m 91200_02360_231030 VERTICAL :
	Level (dBuV/m) vs Frequency (MHz) plot for Horizontal polarization. The y-axis ranges from 10.0 to 140.0 dBuV/m, and the x-axis ranges from 17700 to 18000 MHz. A red line indicates the average level (AVG_54) at approximately 55 dBuV/m. The plot shows a flat spectrum with minor noise. Date: 2024-06-26. Site : 03CH20-HY Condition : AV6_54 3m 91200_02360_231030 HORIZONTAL :	Level (dBuV/m) vs Frequency (MHz) plot for Vertical polarization. The y-axis ranges from 10.0 to 140.0 dBuV/m, and the x-axis ranges from 17700 to 18000 MHz. A red line indicates the average level (AVG_54) at approximately 55 dBuV/m. The plot shows a flat spectrum with minor noise. Date: 2024-06-26. Site : 03CH20-HY Condition : AV6_54 3m 91200_02360_231030 VERTICAL :



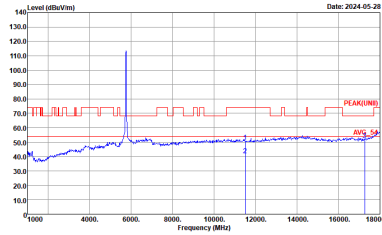
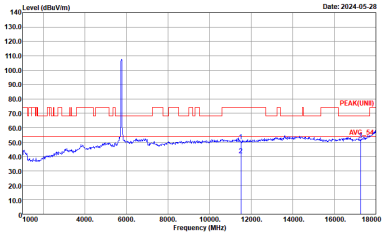
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ax HE20 Full CH165 5825MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH20-HY Condition : PEAK(UNIT) 3m 91200_02360_231030 HORIZONTAL :	 Site : 03CH20-HY Condition : PEAK(UNIT) 3m 91200_02360_231030 VERTICAL :



WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ax HE20 Full CH165 5825MHz	
1+2	Horizontal	Vertical
14.47G ~14.5G Avg.	Level (dBuV/m) vs Frequency (MHz) plot for Horizontal polarization. The y-axis ranges from 10.0 to 140.0 dBuV/m, and the x-axis ranges from 14470 to 14500 MHz. A red line labeled 'AVG_54' is at approximately 55 dBuV/m. The plot shows a flat spectrum with noise floor around 40 dBuV/m. Site : 03CH20-HY Condition : AV6_54 3m 91200_02360_231030 HORIZONTAL :	Level (dBuV/m) vs Frequency (MHz) plot for Vertical polarization. The y-axis ranges from 10.0 to 140.0 dBuV/m, and the x-axis ranges from 14470 to 14500 MHz. A red line labeled 'AVG_54' is at approximately 55 dBuV/m. The plot shows a flat spectrum with noise floor around 40 dBuV/m. Site : 03CH20-HY Condition : AV6_54 3m 91200_02360_231030 VERTICAL :
	Level (dBuV/m) vs Frequency (MHz) plot for Horizontal polarization. The y-axis ranges from 10.0 to 140.0 dBuV/m, and the x-axis ranges from 17700 to 18000 MHz. A red line labeled 'AVG_54' is at approximately 55 dBuV/m. The plot shows a flat spectrum with noise floor around 40 dBuV/m. Site : 03CH20-HY Condition : AV6_54 3m 91200_02360_231030 HORIZONTAL :	Level (dBuV/m) vs Frequency (MHz) plot for Vertical polarization. The y-axis ranges from 10.0 to 140.0 dBuV/m, and the x-axis ranges from 17700 to 18000 MHz. A red line labeled 'AVG_54' is at approximately 55 dBuV/m. The plot shows a flat spectrum with noise floor around 40 dBuV/m. Site : 03CH20-HY Condition : AV6_54 3m 91200_02360_231030 VERTICAL :
17.7G ~18G Avg		



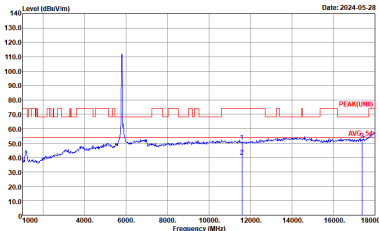
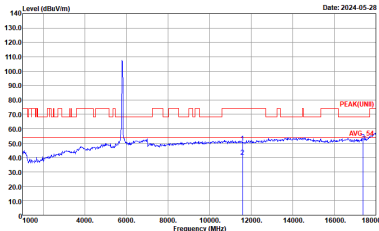
Band 4 5725~5850MHz
WIFI 802.11ax HE40 Full (Harmonic @ 3m)

WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ax HE40 Full CH151 5755MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH20-HY Condition : PEAK(UNIT) 3m 91200_02360_231030 HORIZONTAL :	 Site : 03CH20-HY Condition : PEAK(UNIT) 3m 91200_02360_231030 VERTICAL :



WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ax HE40 Full CH151 5755MHz	
1+2	Horizontal	Vertical
14.47G ~14.5G Avg.	Level (dBuV/m) vs Frequency (MHz) plot for Horizontal polarization. The y-axis ranges from 10.0 to 140.0 dBuV/m, and the x-axis ranges from 14470 to 14500 MHz. A red line labeled 'AVG_54' is visible at approximately 55 dBuV/m. The plot date is 2024-05-28. Site : 03CH20-HY Condition : AV6_54 3m 91200_02360_231030 HORIZONTAL :	Level (dBuV/m) vs Frequency (MHz) plot for Vertical polarization. The y-axis ranges from 10.0 to 140.0 dBuV/m, and the x-axis ranges from 14470 to 14500 MHz. A red line labeled 'AVG_54' is visible at approximately 55 dBuV/m. The plot date is 2024-05-28. Site : 03CH20-HY Condition : AV6_54 3m 91200_02360_231030 VERTICAL :
	Level (dBuV/m) vs Frequency (MHz) plot for Horizontal polarization. The y-axis ranges from 10.0 to 140.0 dBuV/m, and the x-axis ranges from 17700 to 18000 MHz. A red line labeled 'AVG_54' is visible at approximately 55 dBuV/m. The plot date is 2024-05-28. Site : 03CH20-HY Condition : AV6_54 3m 91200_02360_231030 HORIZONTAL :	Level (dBuV/m) vs Frequency (MHz) plot for Vertical polarization. The y-axis ranges from 10.0 to 140.0 dBuV/m, and the x-axis ranges from 17700 to 18000 MHz. A red line labeled 'AVG_54' is visible at approximately 55 dBuV/m. The plot date is 2024-05-28. Site : 03CH20-HY Condition : AV6_54 3m 91200_02360_231030 VERTICAL :



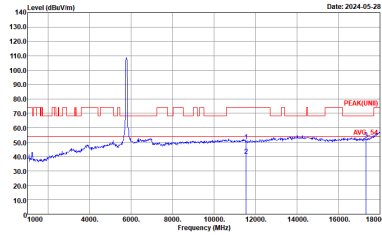
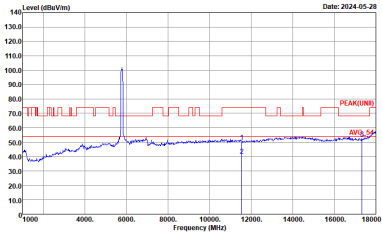
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ax HE40 Full CH159 5795MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH20-HY Condition : PEAK(UNIT) 3m 91200_02360_231030 HORIZONTAL :	 Site : 03CH20-HY Condition : PEAK(UNIT) 3m 91200_02360_231030 VERTICAL :



WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ax HE40 Full CH159 5795MHz	
1+2	Horizontal	Vertical
14.47G ~14.5G Avg.	Level (dBuV/m) vs Frequency (MHz) plot for Horizontal polarization. The y-axis ranges from 10.0 to 140.0 dBuV/m, and the x-axis ranges from 14470 to 14500 MHz. A red line labeled 'AVG_54' is at approximately 55 dBuV/m. The plot shows a flat spectrum with noise floor around 40 dBuV/m. Site : 03CH20-HY Condition : AV6_54 3m 91200_02360_231030 HORIZONTAL	Level (dBuV/m) vs Frequency (MHz) plot for Vertical polarization. The y-axis ranges from 10.0 to 140.0 dBuV/m, and the x-axis ranges from 14470 to 14500 MHz. A red line labeled 'AVG_54' is at approximately 55 dBuV/m. The plot shows a flat spectrum with noise floor around 40 dBuV/m. Site : 03CH20-HY Condition : AV6_54 3m 91200_02360_231030 VERTICAL
	Level (dBuV/m) vs Frequency (MHz) plot for Horizontal polarization. The y-axis ranges from 10.0 to 140.0 dBuV/m, and the x-axis ranges from 17700 to 18000 MHz. A red line labeled 'AVG_54' is at approximately 55 dBuV/m. The plot shows a flat spectrum with noise floor around 40 dBuV/m. Site : 03CH20-HY Condition : AV6_54 3m 91200_02360_231030 HORIZONTAL	Level (dBuV/m) vs Frequency (MHz) plot for Vertical polarization. The y-axis ranges from 10.0 to 140.0 dBuV/m, and the x-axis ranges from 17700 to 18000 MHz. A red line labeled 'AVG_54' is at approximately 55 dBuV/m. The plot shows a flat spectrum with noise floor around 40 dBuV/m. Site : 03CH20-HY Condition : AV6_54 3m 91200_02360_231030 VERTICAL



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	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH20-HY Condition : PEAK(UNIT) 3m 91200_02360_231030 HORIZONTAL :	 Site : 03CH20-HY Condition : PEAK(UNIT) 3m 91200_02360_231030 VERTICAL :



WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ax HE80 Full CH155 5775MHz	
1+2	Horizontal	Vertical
14.47G ~14.5G Avg.	Level (dBuV/m) vs Frequency (MHz) plot for Horizontal polarization. The y-axis ranges from 10.0 to 140.0 dBuV/m, and the x-axis ranges from 14470 to 14500 MHz. A red line labeled 'AVG_54' is at approximately 55 dBuV/m. The plot shows a flat spectrum with noise floor around 40 dBuV/m. Site : 03CH20-HY Condition : AV6_54 3m 91200_02360_231030 HORIZONTAL :	Level (dBuV/m) vs Frequency (MHz) plot for Vertical polarization. The y-axis ranges from 10.0 to 140.0 dBuV/m, and the x-axis ranges from 14470 to 14500 MHz. A red line labeled 'AVG_54' is at approximately 55 dBuV/m. The plot shows a flat spectrum with noise floor around 40 dBuV/m. Site : 03CH20-HY Condition : AV6_54 3m 91200_02360_231030 VERTICAL :
	Level (dBuV/m) vs Frequency (MHz) plot for Horizontal polarization. The y-axis ranges from 10.0 to 140.0 dBuV/m, and the x-axis ranges from 17700 to 18000 MHz. A red line labeled 'AVG_54' is at approximately 55 dBuV/m. The plot shows a flat spectrum with noise floor around 40 dBuV/m. Site : 03CH20-HY Condition : AV6_54 3m 91200_02360_231030 HORIZONTAL :	Level (dBuV/m) vs Frequency (MHz) plot for Vertical polarization. The y-axis ranges from 10.0 to 140.0 dBuV/m, and the x-axis ranges from 17700 to 18000 MHz. A red line labeled 'AVG_54' is at approximately 55 dBuV/m. The plot shows a flat spectrum with noise floor around 40 dBuV/m. Site : 03CH20-HY Condition : AV6_54 3m 91200_02360_231030 VERTICAL :
17.7G ~18G Avg		

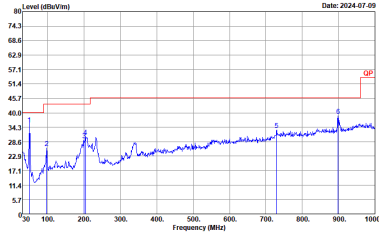
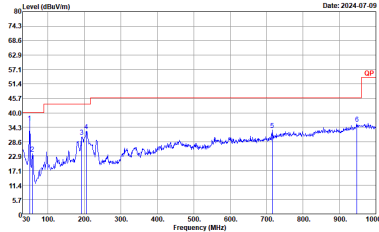


Emission above 18GHz
5GHz WIFI 802.11ax HE80 Full (SHF @ 1m)

WIFI	5GHz WIFI	
ANT	802.11ax HE80 Full SHF	
1+2	Horizontal	Vertical
Peak Avg.	Level (dBuV/m) Date: 2024-07-05 Site : 03CH20-HY Condition : PEAK(UNIT) 1m SHF_00993_231124 HORIZONTAL :	Level (dBuV/m) Date: 2024-07-05 Site : 03CH20-HY Condition : PEAK(UNIT) 1m SHF_00993_231124 VERTICAL :



Emission below 1GHz
5GHz WIFI 802.11ax HE80 Full (LF @ 3m)

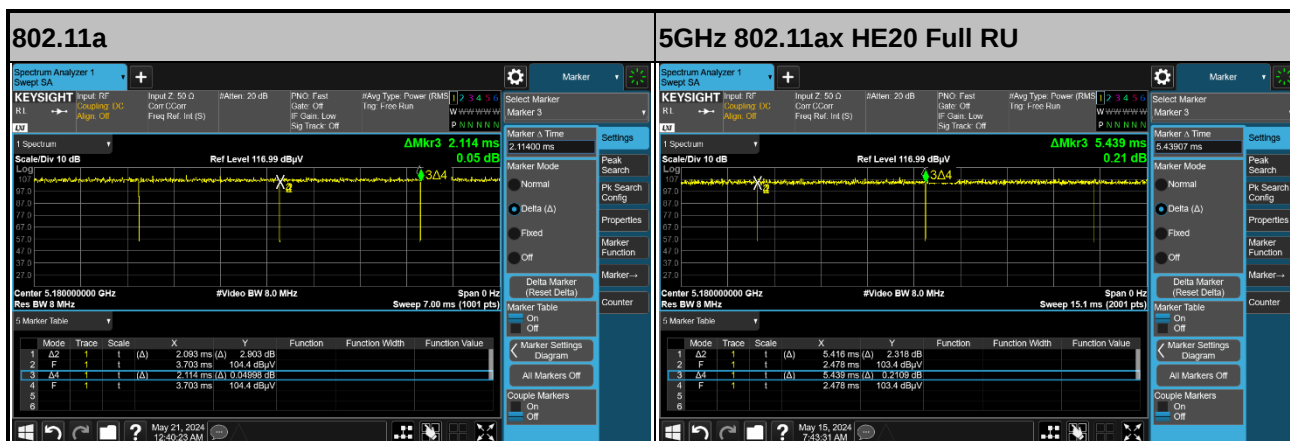
WIFI	5GHz WIFI	
ANT	802.11ax HE80 Full LF	
1+2	Horizontal	Vertical
QP / Peak	 Site : 03CH20-4Y Condition : QP 3m LF_55606_231020_200 HORIZONTAL	 Site : 03CH20-4Y Condition : QP 3m LF_55606_231020_200 VERTICAL



Appendix E. Duty Cycle Plots

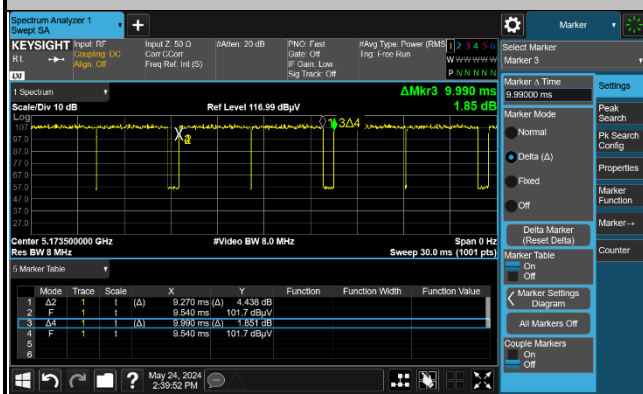
Antenna	Band	Duty Cycle(%)	T(us)	1/T(kHz)	VBW Setting	Duty Factor(dB)
1+2	802.11a	99.01	-	-	10Hz	0.04
1+2	5GHz 802.11ax HE20 Full RU	99.58	-	-	10Hz	0.02
1+2	5GHz 802.11ax HE20 106 RU	92.79	9270	0.11	110Hz	0.32
1+2	5GHz 802.11ax HE40 Full RU	99.64	-	-	10Hz	0.02
1+2	5GHz 802.11ax HE40 242 RU	99.62	-	-	10Hz	0.02
1+2	5GHz 802.11ax HE80 Full RU	99.11	-	-	10Hz	0.04
1+2	5GHz 802.11ax HE80 484 RU	99.33	-	-	10Hz	0.03

MIMO <Ant. 1+2>

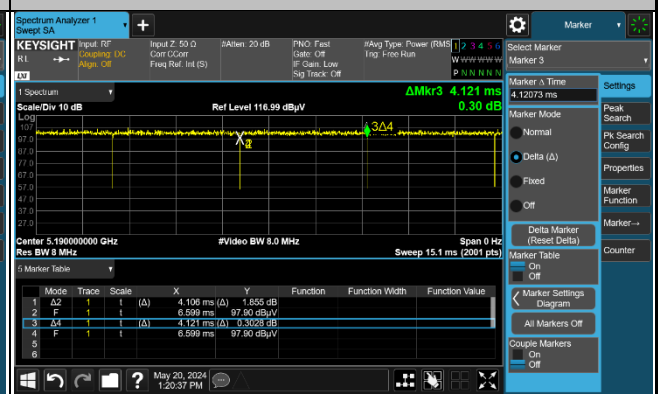




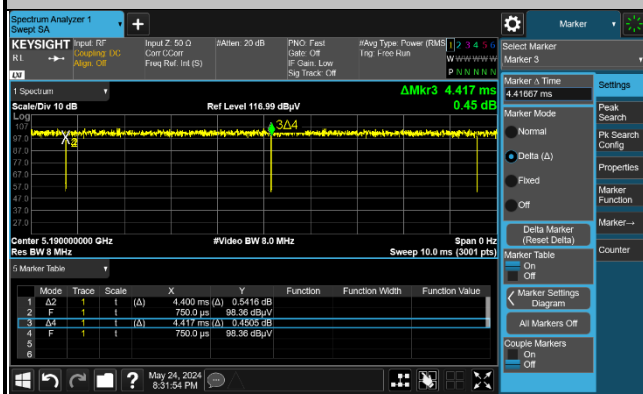
5GHz 802.11ax HE20 106 RU



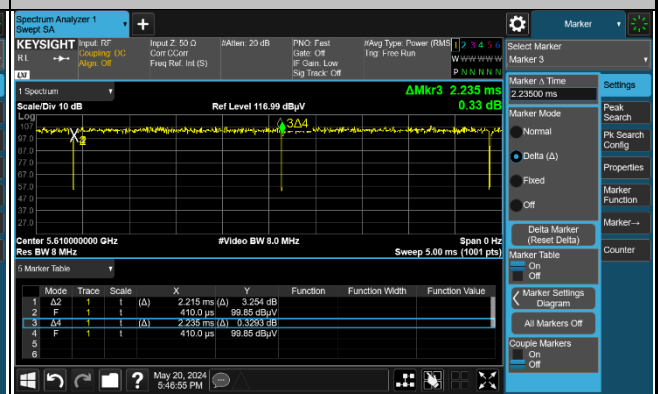
5GHz 802.11ax HE40 Full RU



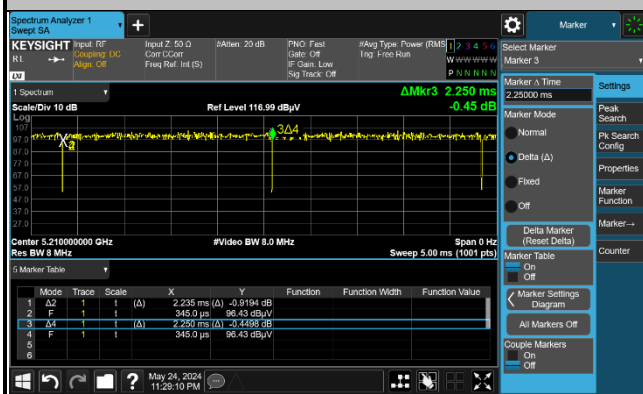
5GHz 802.11ax HE40 242 RU



5GHz 802.11ax HE80 Full RU



5GHz 802.11ax HE80 484 RU





Appendix G. Spot Check Evaluation on KC50E15

Conducted power test and radiated spurious emission test configurations were selected from the worst cases identified in the reference model and tested to demonstrate the test data from reference model remains representative for the variant model.

The deviation between the spot check and the referenced values is within 3dB, therefore data referencing is justified according to the guidance in the ECR inquiry

Mode	Test Item	UZ7KC50A15 Reference Worst mode Test Result	UZ7KC50E15 Variant Check Test Result	Deviation	Limit (dB)
Bluetooth	Number of Channels	79	79	0	Within the authorized block
	Hopping Channel Separation	1.298	0.994	0.304	Within the authorized block
	Dwell Time of Each Channel	0.31	0.31	0	Within the authorized block
	20dB Bandwidth	0.895	0.943	0.048	Within the authorized frequency block
	99% Bandwidth	0.829	0.835	0.006	Within the authorized frequency block
	Conducted Band Edges	-40.99	-41.96	0.97	Deviation (ddB) < 3 dB
	Conducted Spurious Emission	-31.60	-31.83	0.23	Deviation (ddB) < 3 dB
	Peak Output Power	5.51	6.55	1.04	Deviation (ddB) < 3 dB
	Radiated Band Edges and Radiated Spurious Emission	29.69	30.55	0.86	Deviation (ddB) < 3 dB
	AC Conducted Emission	40.20	42.89	2.69	Deviation (ddB) < 3 dB
Bluetooth-LE	6dB Bandwidth	1.152	1.145	0.007	Within the authorized frequency block
	99% Bandwidth	2.002	1.998	0.004	Within the authorized frequency block
	Power Spectral Density	-12.50	-12.91	0.41	Deviation (ddB) < 3 dB
	Conducted Band Edges	-41.12	-42.06	0.94	Deviation (ddB) < 3 dB
	Conducted Spurious Emission	-31.67	-31.99	0.32	Deviation (ddB) < 3 dB
	Power Output Measurement	4.9	4.8	0.1	Deviation (ddB) < 3 dB
	Radiated Band Edges and Spurious Emission	35.09	32.18	2.91	Deviation (ddB) < 3 dB
	AC Conducted Emission	40.20	42.89	2.69	Deviation (ddB) < 3 dB
WIFI 2.4G	6dB Bandwidth	8.05	8.08	0.03	Within the authorized frequency block
	99% Bandwidth	19.33	19.33	0	Within the authorized frequency block
	Power Spectral Density	3.48	3.54	0.06	Deviation (ddB) < 3 dB
	Conducted Band Edges	-41.60	-41.47	0.13	Deviation (ddB) < 3 dB
	Conducted Spurious Emission	-42.45	-42.79	0.34	Deviation (ddB) < 3 dB
	Output Power	26.47	26.37	0.1	Deviation (ddB) < 3 dB
	Radiated Band Edges and Spurious Emission	52.42	52.41	0.01	Deviation (ddB) < 3 dB
	AC Conducted Emission	40.20	42.89	2.69	Deviation (ddB) < 3 dB



Mode	Test Item	UZ7KC50A15 Reference Worst mode Test Result	UZ7KC50E15 Variant Check Test Result	Deviation	Limit (dB)
WIFI 5G	26dB Bandwidth	165.46	166.13	0.67	Within the authorized frequency block
	99% Bandwidth	156.56	156.56	0.00	Within the authorized frequency block
	Power Spectral Density	10.06	10.01	0.05	Deviation (ddB) < 3 dB
	Maximum Conducted Output Power	23.14	22.68	0.46	Deviation (ddB) < 3 dB
	Unwanted Emissions	52.91	52.13	0.78	Deviation (ddB) < 3 dB
	AC Conducted Emission	41.22	42.43	1.21	Deviation (ddB) < 3 dB
WIFI 6G (Indoor Client)	26dB Emission Bandwidth	166.37	166.94	0.57	Within the authorized frequency block
	99% Occupied Bandwidth	156.56	156.32	0.24	Within the authorized frequency block
	Contention Based Protocol	-66.39	-63.16	3.23	Within the authorized block
	Fundamental Maximum EIRP	20.18	20.13	0.05	Deviation (ddB) < 3 dB
	Fundamental Power Spectral Density	-1.14	-1.11	0.03	Deviation (ddB) < 3 dB
	In-Band Emissions (Channel Mask)	-43.14	-44.97	1.83	Deviation (ddB) < 3 dB
	Unwanted Emissions	66.75	64.43	2.32	Deviation (ddB) < 3 dB
	AC Conducted Emission	40.50	37.56	2.94	Deviation (ddB) < 3 dB



List of Measuring Equipment

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
AC Power Source	ACPOWER	AFC-11003G	F317040033	N/A	N/A	Jul. 16, 2024	N/A	Conduction (CO07-HY)
Software	Rohde & Schwarz	EMC32 V10.30	N/A	N/A	N/A	Jul. 16, 2024	N/A	Conduction (CO07-HY)
Pulse Limiter	SCHWARZBECK	VTSD 9561-FN	9561-FN00373	9kHz-200MHz	Oct. 20, 2023	Jul. 16, 2024	Oct. 19, 2024	Conduction (CO07-HY)
RF Cable	HUBER + SUHNER	RG 214/U	1358175	9kHz~30MHz	Mar. 14, 2024	Jul. 16, 2024	Mar. 13, 2025	Conduction (CO07-HY)
Two-Line V-Network	TESEQ	NNB 51	45051	N/A	Mar. 10, 2024	Jul. 16, 2024	Mar. 09, 2025	Conduction (CO07-HY)
Four-Line V-Network	TESEQ	NNB 52	36122	N/A	Mar. 07, 2024	Jul. 16, 2024	Mar. 06, 2025	Conduction (CO07-HY)
EMI Test Receiver	Rohde & Schwarz	ESR3	102317	9kHz~3.6GHz	Sep. 20, 2023	Jul. 16, 2024	Sep. 19, 2024	Conduction (CO07-HY)
EMI Test Receiver	Keysight	N9038A(MXE)	MY54130085	N/A	Oct. 06, 2023	Aug. 28, 2024~Aug. 30, 2024	Oct. 05, 2024	Radiation (03CH20-HY)
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100488	9 kHz~30 MHz	Sep. 12, 2023	Aug. 28, 2024~Aug. 30, 2024	Sep. 11, 2024	Radiation (03CH20-HY)
Preamplifier	EMEC	EM18G40G	060801	18GHz~40GHz	May 27, 2024	Aug. 28, 2024~Aug. 30, 2024	May 26, 2025	Radiation (03CH20-HY)
Controller	ChainTek	3000-1	N/A	Control Turn table & Ant Mast	N/A	Aug. 28, 2024~Aug. 30, 2024	N/A	Radiation (03CH20-HY)
Antenna Mast	ChainTek	MBS-520-1	N/A	1m~4m	N/A	Aug. 28, 2024~Aug. 30, 2024	N/A	Radiation (03CH20-HY)
Turn Table	ChainTek	T-200-S-1	N/A	0~360 Degree	N/A	Aug. 28, 2024~Aug. 30, 2024	N/A	Radiation (03CH20-HY)
Signal Analyzer	Keysight	N9010B	MY60240520	N/A	Dec. 12, 2023	Aug. 28, 2024~Aug. 30, 2024	Dec. 11, 2024	Radiation (03CH20-HY)
Bilog Antenna	TESEQ	CBL 6111D&00802 N1D01N-06	55606 & 08	30MHz~1GHz	Oct. 20, 2023	Aug. 28, 2024~Aug. 30, 2024	Oct. 19, 2024	Radiation (03CH20-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	02360	1GHz-18GHz	Oct. 30, 2023	Aug. 28, 2024~Aug. 30, 2024	Oct. 29, 2024	Radiation (03CH20-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	1223	18GHz-40GHz	Jun. 24, 2024	Aug. 28, 2024~Aug. 30, 2024	Jun. 23, 2025	Radiation (03CH20-HY)
Preamplifier	COM-POWER	PAM-103	18020201	1MHz-1000MHz	Jan. 01, 2024	Aug. 28, 2024~Aug. 30, 2024	Dec. 31, 2024	Radiation (03CH20-HY)
Amplifier	EMCI	EMC118A45SE	980792	N/A	Nov. 13, 2023	Aug. 28, 2024~Aug. 30, 2024	Nov. 12, 2024	Radiation (03CH20-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	519229/2,804 015/2,804027 /2	N/A	Jan. 17, 2024	Aug. 28, 2024~Aug. 30, 2024	Jan. 16, 2025	Radiation (03CH20-HY)
Hygrometer	TECEPEL	DTM-303A	TP211382	N/A	Mar. 27, 2024	Aug. 28, 2024~Aug. 30, 2024	Mar. 26, 2025	Radiation (03CH20-HY)
Software	Audix	N/A	RK-002156	N/A	N/A	Aug. 28, 2024~Aug. 30, 2024	N/A	Radiation (03CH20-HY)



Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Hygrometer	TECPEL	DTM-303A	TP201996	N/A	Nov. 07, 2023	Jul. 23, 2024~ Jul. 27, 2024	Nov. 06, 2024	Conducted (TH05-HY)
Power Sensor	DARE	RPR3006W	15I00041SNO 10 (NO:248)	10MHz~6GHz	Jan. 10, 2024	Jul. 23, 2024~ Jul. 27, 2024	Jan. 09, 2025	Conducted (TH05-HY)
Switch Control Mainframe	Burgeon	ETF-058	EC1300485 (BOX4)	N/A	Apr. 08, 2024	Jul. 23, 2024~ Jul. 27, 2024	Apr. 07, 2025	Conducted (TH05-HY)
Signal Analyzer	Rohde & Schwarz	FSV40	101564	10Hz ~ 40GHz	Sep. 12, 2023	Jul. 23, 2024~ Jul. 27, 2024	Sep. 11, 2024	Conducted (TH05-HY)
Software	Sporton	BTWIFI_Final_ version_24041 1	N/A	Conducted Other Test Item	N/A	Jul. 23, 2024~ Jul. 27, 2024	N/A	Conducted (TH05-HY)

————THE END————