FCC RADIO TEST REPORT

FCC ID	**:**	**A4RGG3HH**
Equipment	**:**	**Wireless Device**
Model Name	**:**	**GG3HH**
Applicant	**:**	**Google LLC** **1600 Amphitheatre Parkway,** **Mountain View, California, 94043 USA**
Standard	**:**	**FCC Part 15 Subpart C §15.247**

The product was received on Jan. 29, 2024 and testing was performed from Feb. 08, 2024 to Mar. 26, 2024. We, Sporton International Inc. Wensan Laboratory, would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

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

Louis Wu

Approved by: Louis Wu

Table of Contents

History of this test report

Report No.	Version	Description	Issue Date
FR412915C	01	Initial issue of report	Apr. 20, 2024

Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.1	15.247(a)(2)	6dB Bandwidth	Pass	-
3.1	2.1049	99% Occupied Bandwidth	Reporting only	-
3.2	15.247(b)	Power Output Measurement	Pass	-
3.3	15.247(e)	Power Spectral Density	Pass	-
3.4	15.247(d)	Conducted Band Edges	Pass	-
		Conducted Spurious Emission	Pass	-
3.5	15.247(d)	Radiated Band Edges and Radiated Spurious Emission	Pass	2.16 dB under the limit at 2483.76 MHz
3.6	15.207	AC Conducted Emission	Pass	16.87 dB under the limit at 0.15 MHz
3.7	15.203	Antenna Requirement	Pass	-

Conformity Assessment Condition:

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

Disclaimer:

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

Reviewed by: Yun Huang

Report Producer: Mila Chen

1 General Description

1.1 Product Feature of Equipment Under Test

Product Feature
General Specs Bluetooth, BLE, BLE (CH2-76), Wi-Fi 2.4GHz 802.11b/g/n/ax, Wi-Fi 5GHz 802.11a/n/ac/ax, NFC, UWB, and GPS. **Antenna Type** WLAN: PIFA Antenna

EUT Information List	
S/N	**Performed Test Item**
1JE650106990505412022D5	RF Conducted Measurement
41151JEAVW000T	Radiated Spurious Emission
41311JEAVW005E	Conducted Emission

Antenna information		
2400 MHz ~ 2483.5 MHz	Peak Gain (dBi)	-6.1

Remark: The EUT's information above is declared by manufacturer. Please refer to Disclaimer in report summary.

1.2 Modification of EUT

No modifications made to the EUT during the testing.

1.3 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, 03CH11-HY

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

FCC designation No.: TW3786

1.4 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 C §15.247
- FCC KDB Publication No. 558074 D01 15.247 Meas Guidance v05r02
- FCC KDB 414788 D01 Radiated Test Site v01r01.
- 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.

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 find X plane with Adapter as worst plane

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)
2400-2483.5 MHz	1	2412	7	2442
	2	2417	8	2447
	3	2422	9	2452
	4	2427	10	2457
	5	2432	11	2462
	6	2437		

2.2 Test Mode

This device support 26/52/106/242-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.

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

Single Mode

Modulation	Data Rate
802.11b	**1 Mbps**
802.11g	**6 Mbps**
802.11n HT20	**MCS0**
802.11ax HE20	**MCS0**

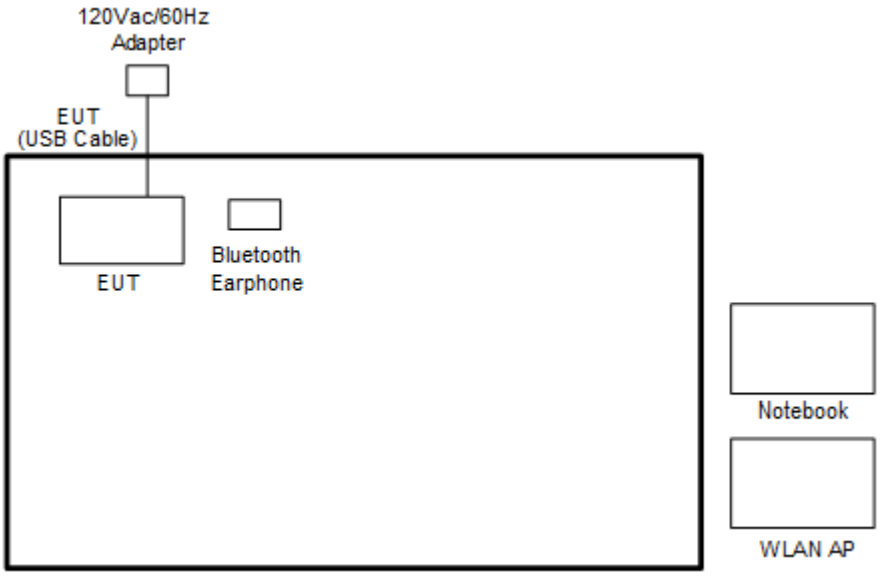
Test Cases	
AC Conducted Emission	Mode 1 : Bluetooth Link + WLAN (2.4GHz) Link + USB Cable (Charging from Adapter)

Ch. #	2400-2483.5 MHz			
	802.11b	**802.11g**	**802.11n HT20**	**802.11ax HE20**
Low	**01**	**01**	**01**	**01**
Middle	**06**	**06**	**06**	**06**
High	**11**	**11**	**11**	**11**

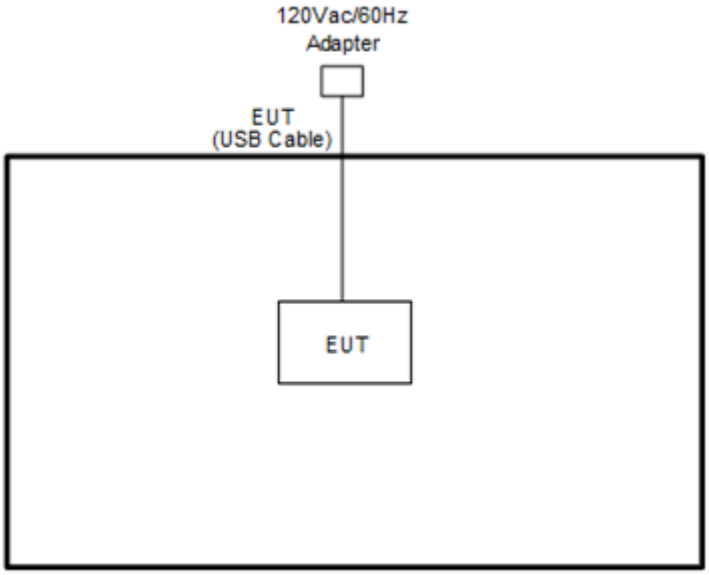
Remark: For radiation spurious emission, the modulation and the data rate picked for testing are determined by the Max. RF conducted power.

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	SBH20	PY7-RD0010	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.	AC Adapter	Chicony	G9BR1	N/A	N/A	N/A

2.5 EUT Operation Test Setup

The RF test items, utility “adb version 1.0.39” 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.

Offset(dB) = RF cable loss(dB) + attenuator factor(dB).
= 4.2 + 10 = 14.2 (dB)

3 Test Result

3.1 6dB and 99% Bandwidth Measurement

3.1.1 Limit of 6dB and 99% Bandwidth

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

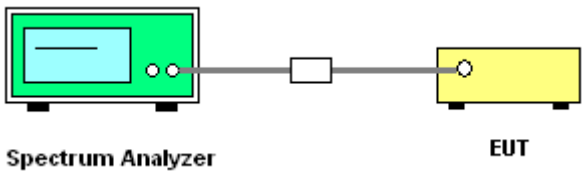
3.1.2 Measuring Instruments

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

3.1.3 Test Procedures

1. The testing follows the ANSI C63.10 Section 6.9.3 (OBW) and 11.8.1 (6dB BW).
2. The RF output of EUT is connected to the spectrum analyzer by RF cable and attenuator. The path loss is compensated to the results for each measurement.
3. Set the maximum power setting and enable the EUT to transmit continuously.
4. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 100 kHz. Set the Video bandwidth (VBW) = 300 kHz. In order to make an accurate measurement. The 6 dB bandwidth must be greater than 500 kHz.
5. For 99% Bandwidth Measurement, the spectrum analyzer's resolution bandwidth (RBW) is set 1-5% of the emission bandwidth and set the Video bandwidth (VBW) ≥ 3 * RBW.
6. Measure and record the results in the test report.

3.1.4 Test Setup



3.1.5 Test Result of 6dB and 99% Occupied Bandwidth

Please refer to Appendix A.

3.2 Output Power Measurement

3.2.1 Limit of Output Power

For systems using digital modulation in the 2400-2483.5 MHz, the limit for output power is 30 dBm. If transmitting antenna with directional gain greater than 6 dBi is used, the peak output power from the intentional radiator shall be reduced below the above stated value by the amount in dB that the directional gain of the antenna exceeds 6 dBi. In case of point-to-point operation, the limit has to be reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6 dBi.

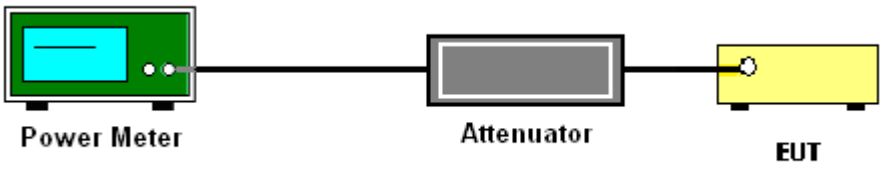
3.2.2 Measuring Instruments

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

3.2.3 Test Procedures

1. For Average Power, the testing follows ANSI C63.10 Section 11.9.2.3.2 Method AVGPM-G
2. The RF output of EUT is connected to the power meter by RF cable and attenuator. The path loss is compensated to the results for each measurement.
3. Set the maximum power setting and enable the EUT to transmit continuously.
4. Measure the conducted output power and record the results in the test report.

3.2.4 Test Setup



3.2.5 Test Result of Average Output Power

Please refer to Appendix A.

3.3 Power Spectral Density Measurement

3.3.1 Limit of Power Spectral Density

The peak power spectral density shall not be greater than 8 dBm in any 3 kHz band at any time interval of continuous transmission.

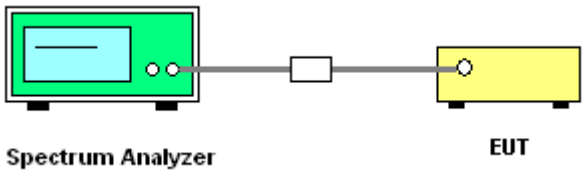
3.3.2 Measuring Instruments

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

3.3.3 Test Procedures

1. The testing follows the ANSI C63.10 Section 11.10.2 Method PKPSD.
2. The RF output of EUT is connected to the spectrum analyzer by RF cable and attenuator. The path loss is compensated to the results for each measurement.
3. Set the maximum power setting and enable the EUT to transmit continuously.
4. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 3 kHz. Video bandwidth VBW = 10 kHz In order to make an accurate measurement, set the span to 1.5 times DTS Channel Bandwidth. (6dB BW)
5. Detector = peak, Sweep time = auto couple, Trace mode = max hold, Allow trace to fully stabilize. Use the peak marker function to determine the maximum power level.
6. Measure and record the results in the test report.

3.3.4 Test Setup



3.3.5 Test Result of Power Spectral Density

Please refer to Appendix A.

3.4 Conducted Band Edges and Spurious Emission Measurement

3.4.1 Limit of Conducted Band Edges and Spurious Emission Measurement

In any 100 kHz bandwidth outside of the authorized frequency band, the emissions which fall in the non-restricted bands shall be attenuated at least 20 dB / 30dB relative to the maximum PSD level in 100 kHz by RF conducted measurement.

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 the ANSI C63.10 Section 11.11.3 Emission level measurement.
2. The RF output of EUT is connected to the spectrum analyzer by RF cable and attenuator. The path loss is compensated to the results for each measurement.
3. Set the maximum power setting and enable the EUT to transmit continuously.
4. Set RBW = 100 kHz, VBW=300 kHz, Peak Detector. Unwanted Emissions measured in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz when maximum peak conducted output power procedure is used. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, the attenuation required under this paragraph shall be 30 dB instead of 20 dB per 15.247(d).
5. Measure and record the results in the test report.
6. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

3.4.4 Test Setup

3.4.5 Test Result of Conducted Band Edges and Spurious Emission

Please refer to Appendix A.

3.5 Radiated Band Edges and Spurious Emission Measurement

3.5.1 Limit of Radiated band edge and Spurious Emission Measurement

In any 100 kHz bandwidth outside the intentional radiator frequency band, all harmonics/spurious must be at least 20 dB below the highest emission level within the authorized band. If the output power of this device is measured by spectrum analyzer, the attenuation under this paragraph shall be 30 dB instead of 20 dB. In addition, radiated emissions which fall in the restricted bands must also comply with the limits as below.

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

3.5.2 Measuring Instruments

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

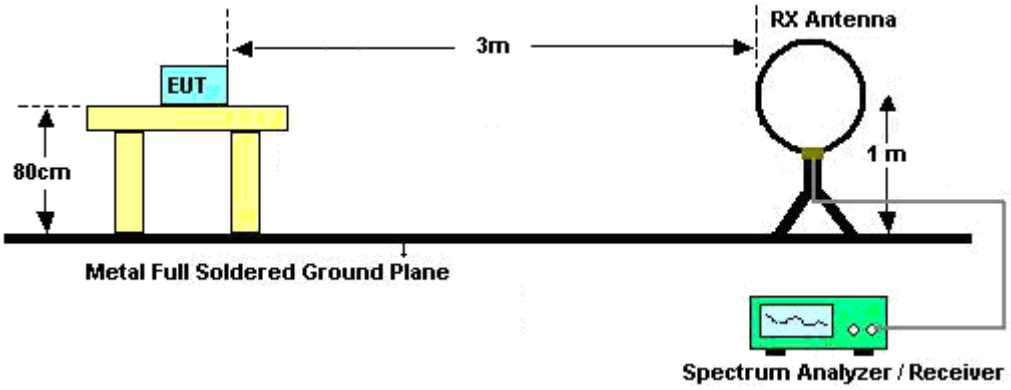
3.5.3 Test Procedures

1. The testing follows the ANSI C63.10 Section 11.12.1 Radiated emission measurements.
2. The EUT is arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level.
3. 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.
4. The EUT is set 3 meters away from the receiving antenna, which is mounted on the top of a variable height antenna tower.
5. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level
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 “-“.

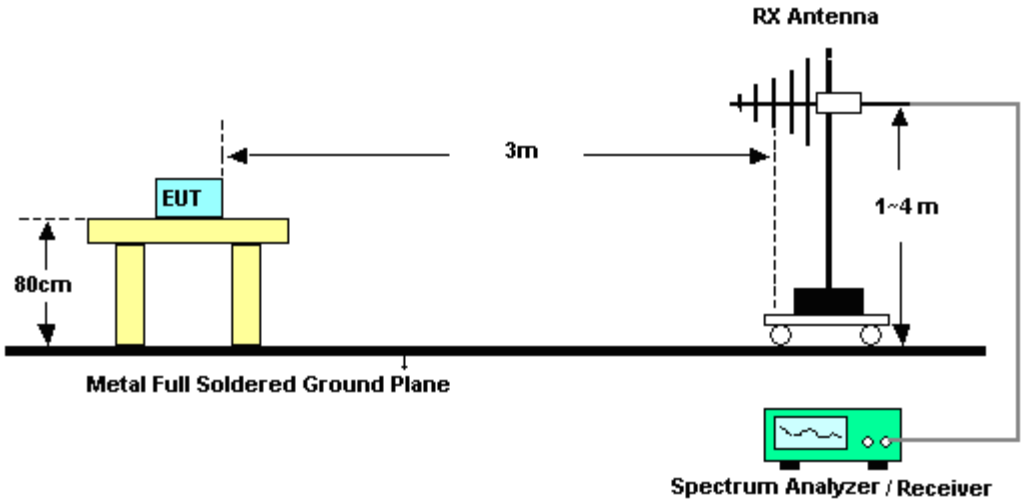
7. Radiated testing above 1 GHz is performed by adjusting the antenna tower from 1 m to 4 m and by rotating the turn table from 0 degree to 360 degrees to find the peak maximum hold reading for scanning all frequencies. When there is no suspected emission found and the harmonic emission level is with at least 6 dB margin against average limit line, the position is marked as "-".
8. Use the following spectrum analyzer settings:
   (1) Span shall wide enough to fully capture the emission being measured;
   (2) Set RBW = 100 kHz for f < 1 GHz; VBW ≥ RBW; Sweep = auto; Detector function = peak; Trace = max hold;
   (3) Set RBW = 1 MHz, VBW= 3 MHz for f ≥ 1 GHz for peak measurement.
   For average measurement:
   - VBW = 10 Hz, when duty cycle is no less than 98 percent.
   - VBW ≥ 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.

3.5.4 Test Setup

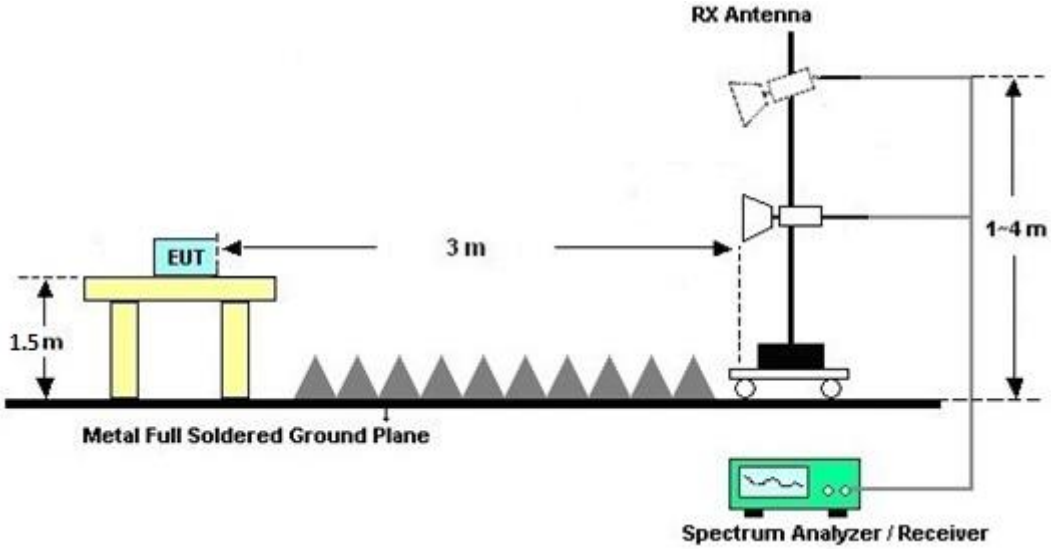
For radiated emissions below 30MHz



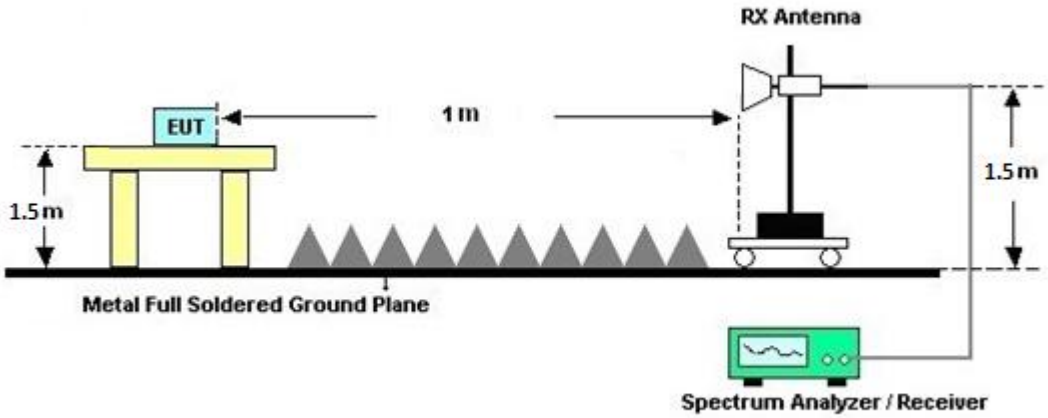
For radiated emissions from 30MHz to 1GHz



For radiated test from 1GHz to 18GHz



For radiated test above 18GHz



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

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 comes out very similar.

3.5.6 Test Result of Radiated Spurious at Band Edges

Please refer to Appendix C and D.

3.5.7 Duty Cycle

Please refer to Appendix E.

3.5.8 Test Result of Radiated Spurious Emission (30MHz ~ 10th Harmonic)

Please refer to Appendix C and D.

3.6 AC Conducted Emission Measurement

3.6.1 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 (dBμV)	
	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.

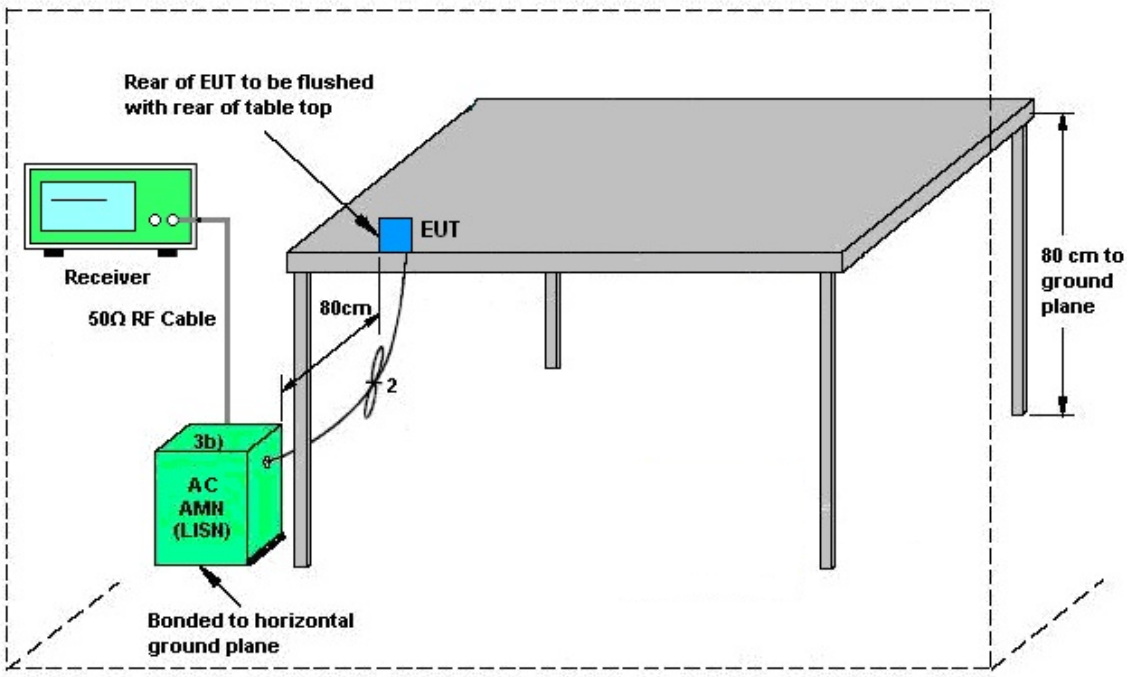
3.6.2 Measuring Instruments

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

3.6.3 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 (IF bandwidth = 9kHz) with Maximum Hold Mode.

3.6.4 Test Setup



AMN = Artificial mains network (LISN)
AE = Associated equipment
EUT = Equipment under test
ISN = Impedance stabilization network

3.6.5 Test Result of AC Conducted Emission

Please refer to Appendix B.

3.7 Antenna Requirements

3.7.1 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.

3.7.2 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
AC Power Source	ACPOWER	AFC-11003G	F317040033	N/A	N/A	Mar. 15, 2024	N/A	Conduction (CO07-HY)
Software	Rohde & Schwarz	EMC32 V10.30	N/A	N/A	N/A	Mar. 15, 2024	N/A	Conduction (CO07-HY)
Pulse Limiter	SCHWARZBECK	VTSD 9561-F N	9561-F N00373	9kHz-200MHz	Oct. 20, 2023	Mar. 15, 2024	Oct. 19, 2024	Conduction (CO07-HY)
Two-Line V-Network	TESEQ	NNB 51	45051	N/A	Mar. 10, 2024	Mar. 15, 2024	Mar. 09, 2025	Conduction (CO07-HY)
Four-Line V-Network	TESEQ	NNB 52	36122	N/A	Mar. 07, 2024	Mar. 15, 2024	Mar. 06, 2025	Conduction (CO07-HY)
EMI Test Receiver	Rohde & Schwarz	ESR3	102317	9kHz~3.6GHz	Sep. 20, 2023	Mar. 15, 2024	Sep. 19, 2024	Conduction (CO07-HY)
Bilog Antenna	TESEQ	CBL 6111D & N-6-06	35414 & AT-N0602	30MHz~1GHz	Oct. 07, 2023	Feb. 22, 2024~ Mar. 26, 2024	Oct. 06, 2024	Radiation (03CH11-HY)
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100488	9 kHz~30 MHz	Sep. 12, 2023	Feb. 22, 2024~ Mar. 26, 2024	Sep. 11, 2024	Radiation (03CH11-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-01620	1GHz~18GHz	Aug. 17, 2023	Feb. 22, 2024~ Mar. 26, 2024	Aug. 16, 2024	Radiation (03CH11-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	1223	18GHz~40GHz	Jul. 10, 2023	Feb. 22, 2024~ Mar. 26, 2024	Jul. 09, 2024	Radiation (03CH11-HY)
Amplifier	SONOMA	310N	187312	9kHz~1GHz	Dec. 08, 2023	Feb. 22, 2024~ Mar. 26, 2024	Dec. 07, 2024	Radiation (03CH11-HY)
Preamplifier	E-INSTRUMENT TECH LTD.	ERA-10M-7000-MR	EC1900245	10MHz-7GHz	Jan. 09, 2024	Feb. 22, 2024~ Mar. 26, 2024	Jan. 08, 2025	Radiation (03CH11-HY)
Preamplifier	Jet-Power	JPA0118-55-303	1710001800055007	1GHz~18GHz	Jun. 14, 2023	Feb. 22, 2024~ Mar. 26, 2024	Jun. 13, 2024	Radiation (03CH11-HY)
Preamplifier	EMEC	EM18G40G	060801	18GHz~40GHz	Jun. 27, 2023	Feb. 22, 2024~ Mar. 26, 2024	Jun. 26, 2024	Radiation (03CH11-HY)
Spectrum Analyzer	Keysight	N9010A	MY54200486	10Hz~44GHz	Oct. 05, 2023	Feb. 22, 2024~ Mar. 26, 2024	Oct. 04, 2024	Radiation (03CH11-HY)
Controller	EMEC	EM 1000	N/A	Control Turn table & Ant Mast	N/A	Feb. 22, 2024~ Mar. 26, 2024	N/A	Radiation (03CH11-HY)
Antenna Mast	EMEC	AM-BS-4500-B	N/A	1~4m	N/A	Feb. 22, 2024~ Mar. 26, 2024	N/A	Radiation (03CH11-HY)
Turn Table	EMEC	TT 2000	N/A	0~360 Degree	N/A	Feb. 22, 2024~ Mar. 26, 2024	N/A	Radiation (03CH11-HY)
Software	Audix	E3 6.2009-8-24	RK-001053	N/A	N/A	Feb. 22, 2024~ Mar. 26, 2024	N/A	Radiation (03CH11-HY)

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
RF Cable	HUBER + SUHNER	SUCOFLEX 102	MY1595/2	30MHz~40GHz	Mar. 07, 2023	Feb. 22, 2024~ Mar. 05, 2024	Mar. 06, 2024	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	MY1595/2	30MHz~40GHz	Mar. 06, 2024	Mar. 06, 2024~ Mar. 26, 2024	Mar. 05, 2025	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	MY2859/2	30MHz~40GHz	Mar. 07, 2023	Feb. 22, 2024~ Mar. 05, 2024	Mar. 06, 2024	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	MY2859/2	30MHz~40GHz	Mar. 06, 2024	Mar. 06, 2024~ Mar. 26, 2024	Mar. 05, 2025	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	803951/2	9K~30M	Mar. 07, 2023	Feb. 22, 2024~ Mar. 05, 2024	Mar. 06, 2024	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	803951/2	9K~30M	Mar. 06, 2024	Mar. 06, 2024~ Mar. 26, 2024	Mar. 05, 2025	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	803951/2	30M~40G	Mar. 07, 2023	Feb. 22, 2024~ Mar. 05, 2024	Mar. 06, 2024	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	803951/2	30M~40G	Mar. 06, 2024	Mar. 06, 2024~ Mar. 26, 2024	Mar. 05, 2025	Radiation (03CH11-HY)
Filter	Wainwright	WLK4-1000-1530-8000-40SS	SN11	1.53G Low Pass	Sep. 11, 2023	Feb. 22, 2024~ Mar. 26, 2024	Sep. 10, 2024	Radiation (03CH11-HY)
Filter	Wainwright	WHKX12-2700-3000-18000-60SS	SN3	3GHz High Pass Filter	Sep. 11, 2023	Feb. 22, 2024~ Mar. 26, 2024	Sep. 10, 2024	Radiation (03CH11-HY)
Hygrometer	TECPEL	DTM-303A	TP201996	N/A	Nov. 07, 2023	Feb. 08, 2024~ Mar. 07, 2024	Nov. 06, 2024	Conducted (TH05-HY)
Power Sensor	DARE	RPR3006W	15I00041SNO10 (NO:248)	10MHz~6GHz	Jun. 05, 2023	Feb. 08, 2024~ Mar. 07, 2024	Jun. 04, 2024	Conducted (TH05-HY)
Signal Analyzer	Rohde & Schwarz	FSV40	101566	10Hz~40GHz	Aug. 23, 2023	Feb. 08, 2024~ Mar. 07, 2024	Aug. 22, 2024	Conducted (TH05-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**

Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**6.1 dB**

Uncertainty of Radiated Emission Measurement (1000 MHz ~ 6000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**4.3 dB**

Uncertainty of Radiated Emission Measurement (6000 MHz ~ 18000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**4.3 dB**

Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**5.3 dB**

Appendix A. Test Result of Conducted Test Items

Test Engineer:	Willy Chang	Temperature:	21~25	°C
Test Date:	2024/2/8~2024/3/7	Relative Humidity:	51~54	%

Report Number : FR412915C

TEST RESULTS DATA
6dB and 99% Occupied Bandwidth

2.4GHz Band Single Antenna								
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Occupied BW (MHz)	6dB BW (MHz)	6dB BW Limit (MHz)	Pass/Fail
					Ant1	Ant1		
11b	1Mbps	1	1	2412	13.24	8.55	0.50	Pass
11b	1Mbps	1	6	2437	13.19	8.06	0.50	Pass
11b	1Mbps	1	11	2462	13.19	8.53	0.50	Pass
11g	6Mbps	1	1	2412	17.33	16.33	0.50	Pass
11g	6Mbps	1	6	2437	17.28	16.34	0.50	Pass
11g	6Mbps	1	11	2462	17.28	16.34	0.50	Pass
HT20	MCS0	1	1	2412	18.38	17.57	0.50	Pass
HT20	MCS0	1	6	2437	18.43	17.59	0.50	Pass
HT20	MCS0	1	11	2462	18.33	17.58	0.50	Pass

Report Number : FR412915C

TEST RESULTS DATA
Average Output Power

2.4GHz Band Single Antenna											
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Conducted Power (dBm)		Conducted Power Limit (dBm)	DG (dBi)	EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail
					Ant1	SUM	Ant1	Ant1	Ant1	Ant1	
11b	1Mbps	1	1	2412	18.40		30.00	-6.10	12.30	36.00	Pass
11b	1Mbps	1	6	2437	18.40		30.00	-6.10	12.30	36.00	Pass
11b	1Mbps	1	11	2462	18.00		30.00	-6.10	11.90	36.00	Pass
11g	6Mbps	1	1	2412	18.10		30.00	-6.10	12.00	36.00	Pass
11g	6Mbps	1	6	2437	18.20		30.00	-6.10	12.10	36.00	Pass
11g	6Mbps	1	11	2462	18.40		30.00	-6.10	12.30	36.00	Pass
HT20	MCS0	1	1	2412	18.20		30.00	-6.10	12.10	36.00	Pass
HT20	MCS0	1	6	2437	18.30		30.00	-6.10	12.20	36.00	Pass
HT20	MCS0	1	11	2462	18.00		30.00	-6.10	11.90	36.00	Pass

Note: Measured power (dBm) has offset with cable loss.

TEST RESULTS DATA
Peak Power Spectral Density

2.4GHz Band Single Antenna									
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Peak PSD (dBm/3kHz)		DG (dBi)	Peak PSD Limit (dBm/3kHz)	Pass/Fail
					Ant1	Worse + 3.01	Ant1	Ant1	
11b	1Mbps	1	1	2412	-3.07		-6.10	8.00	Pass
11b	1Mbps	1	6	2437	-3.88		-6.10	8.00	Pass
11b	1Mbps	1	11	2462	-4.38		-6.10	8.00	Pass
11g	6Mbps	1	1	2412	-7.72		-6.10	8.00	Pass
11g	6Mbps	1	6	2437	-7.85		-6.10	8.00	Pass
11g	6Mbps	1	11	2462	-7.24		-6.10	8.00	Pass
HT20	MCS0	1	1	2412	-7.51		-6.10	8.00	Pass
HT20	MCS0	1	6	2437	-8.01		-6.10	8.00	Pass
HT20	MCS0	1	11	2462	-7.87		-6.10	8.00	Pass

Measured power density (dBm) has offset with cable loss.

TEST RESULTS DATA
6dB and 99% Occupied Bandwidth

2.4GHz Band Single Antenna									
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	99% Occupied BW (MHz)	6dB BW (MHz)	6dB BW Limit (MHz)	Pass/Fail
						Ant1	Ant1		
HE20	MCS0	1	1	2412	Full	19.23	18.98	0.50	Pass
HE20	MCS0	1	6	2437	Full	19.23	18.99	0.50	Pass
HE20	MCS0	1	11	2462	Full	19.13	19.00	0.50	Pass

TEST RESULTS DATA
Average Output Power

2.4GHz Band Single Antenna												
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Average Conducted Power (dBm)		Conducted Power Limit (dBm)	DG (dBi)	EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail
						Ant1	SUM	Ant1	Ant1	Ant1	Ant1	
HE20	MCS0	1	1	2412	Full	18.00		30.00	-6.10	11.90	36.00	Pass
HE20	MCS0	1	1	2412	26/0	10.70		30.00	-6.10	4.60	36.00	Pass
HE20	MCS0	1	1	2412	52/37	12.90		30.00	-6.10	6.80	36.00	Pass
HE20	MCS0	1	1	2412	106/53	15.20		30.00	-6.10	9.10	36.00	Pass
HE20	MCS0	1	6	2437	Full	18.30		30.00	-6.10	12.20	36.00	Pass
HE20	MCS0	1	6	2437	26/4	10.80		30.00	-6.10	4.70	36.00	Pass
HE20	MCS0	1	6	2437	52/38	12.60		30.00	-6.10	6.50	36.00	Pass
HE20	MCS0	1	6	2437	106/53	14.60		30.00	-6.10	8.50	36.00	Pass
HE20	MCS0	1	11	2462	Full	16.60		30.00	-6.10	10.50	36.00	Pass
HE20	MCS0	1	11	2462	26/8	8.90		30.00	-6.10	2.80	36.00	Pass
HE20	MCS0	1	11	2462	52/40	10.90		30.00	-6.10	4.80	36.00	Pass
HE20	MCS0	1	11	2462	106/54	13.40		30.00	-6.10	7.30	36.00	Pass

Note: Measured power (dBm) has offset with cable loss.

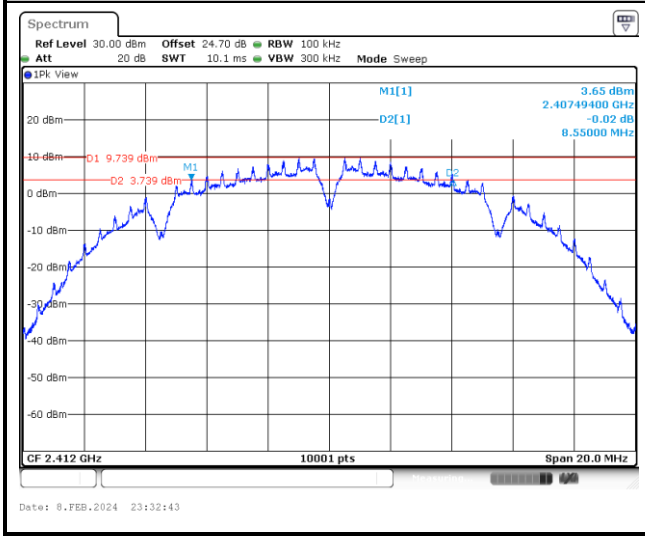
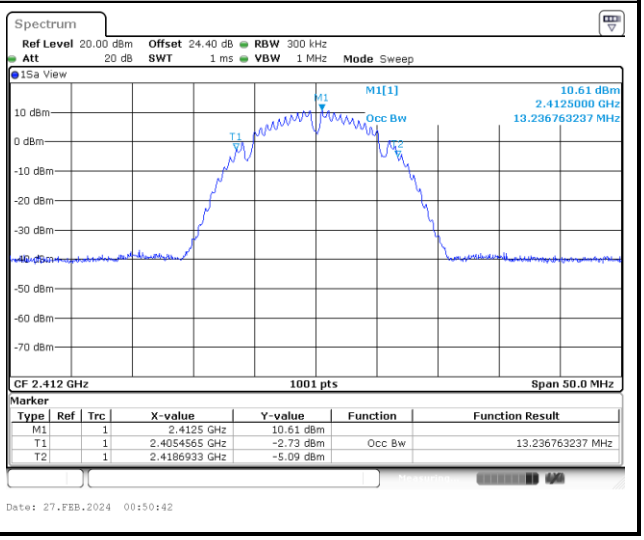
TEST RESULTS DATA
Peak Power Spectral Density

2.4GHz Band Single Antenna										
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Peak PSD (dBm/3kHz)		DG (dBi)	Peak PSD Limit (dBm/3kHz)	Pass/Fail
						Ant1	Worse + 3.01	Ant1	Ant1	
HE20	MCS0	1	1	2412	Full	-7.27		-6.10	8.00	Pass
HE20	MCS0	1	1	2412	26/0	-7.33		-6.10	8.00	Pass
HE20	MCS0	1	1	2412	52/37	-7.56		-6.10	8.00	Pass
HE20	MCS0	1	1	2412	106/53	-7.86		-6.10	8.00	Pass
HE20	MCS0	1	6	2437	Full	-7.69		-6.10	8.00	Pass
HE20	MCS0	1	6	2437	26/4	-7.88		-6.10	8.00	Pass
HE20	MCS0	1	6	2437	52/38	-7.76		-6.10	8.00	Pass
HE20	MCS0	1	6	2437	106/53	-8.11		-6.10	8.00	Pass
HE20	MCS0	1	11	2462	Full	-8.75		-6.10	8.00	Pass
HE20	MCS0	1	11	2462	26/8	-9.28		-6.10	8.00	Pass
HE20	MCS0	1	11	2462	52/40	-9.11		-6.10	8.00	Pass
HE20	MCS0	1	11	2462	106/54	-9.29		-6.10	8.00	Pass

Measured power density (dBm) has offset with cable loss.

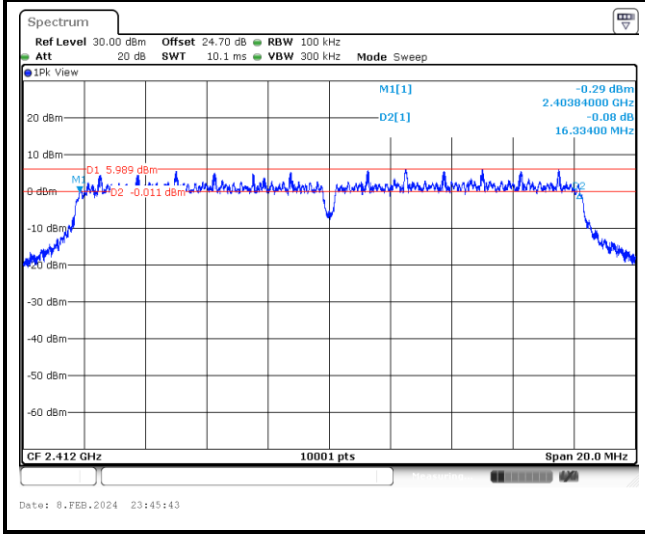
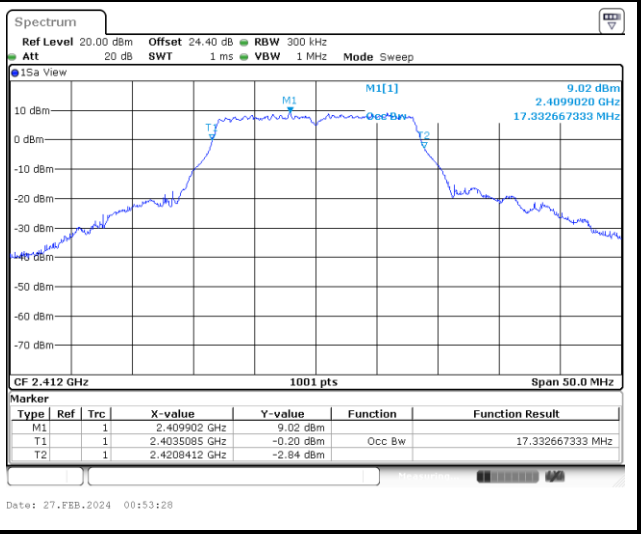
6dB and 99% Occupied Bandwidth

<802.11b>

6dB Bandwidth	99% Occupied Bandwidth
	

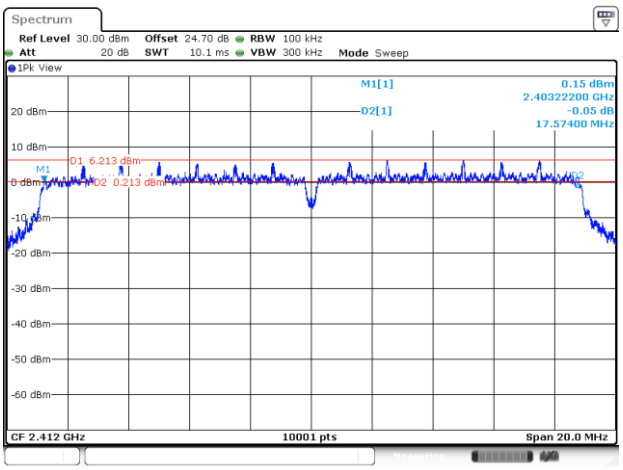
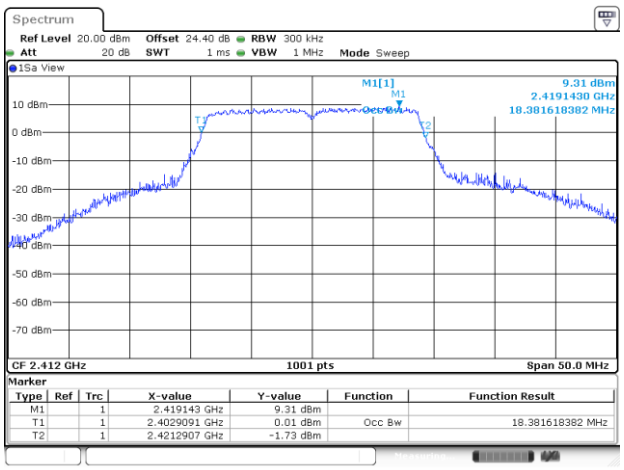
Note: The occupied channel bandwidth is maintained within the band of operation for all of the modulations.

<802.11g>

6dB Bandwidth	99% Occupied Bandwidth
	

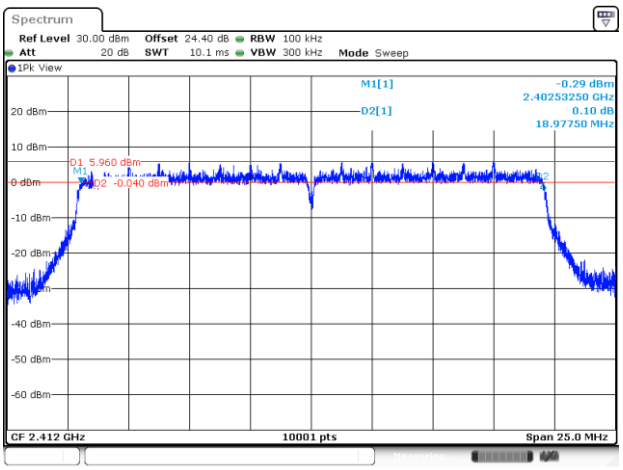
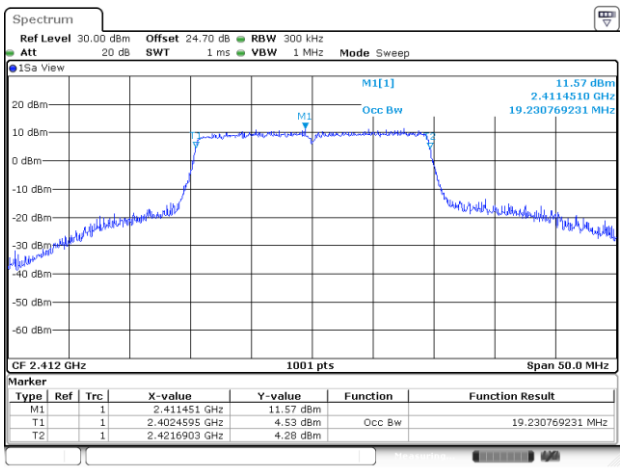
Note: The occupied channel bandwidth is maintained within the band of operation for all of the modulations.

<802.11n HT20>

6dB Bandwidth	99% Occupied Bandwidth
	

Note: The occupied channel bandwidth is maintained within the band of operation for all of the modulations.

<802.11ax HE20>

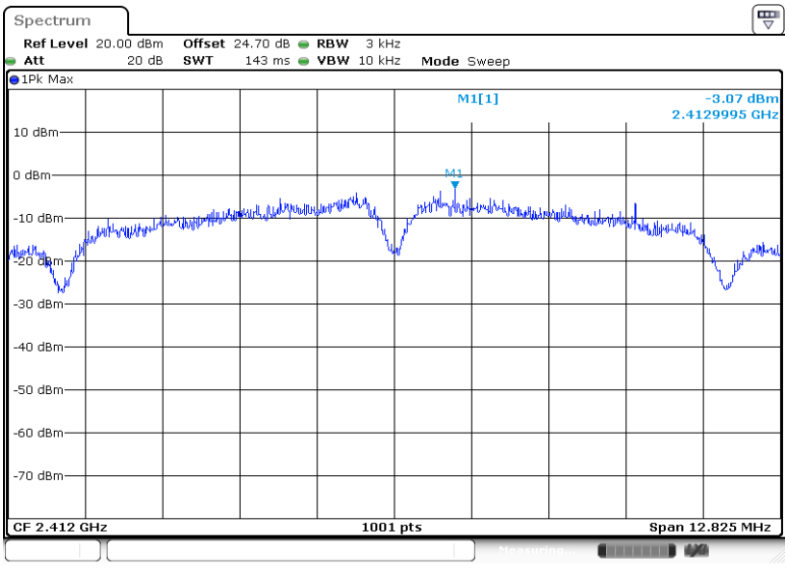
6dB Bandwidth	99% Occupied Bandwidth
	

Note: The occupied channel bandwidth is maintained within the band of operation for all of the modulations.

Power Spectral Density(dBm/3kHz)

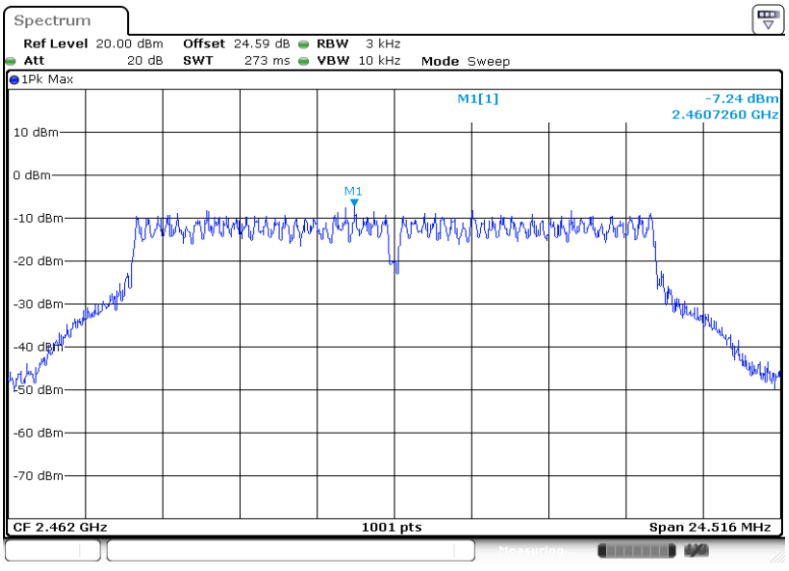
<802.11b>

Worst Case Power Density (dBm/3kHz)



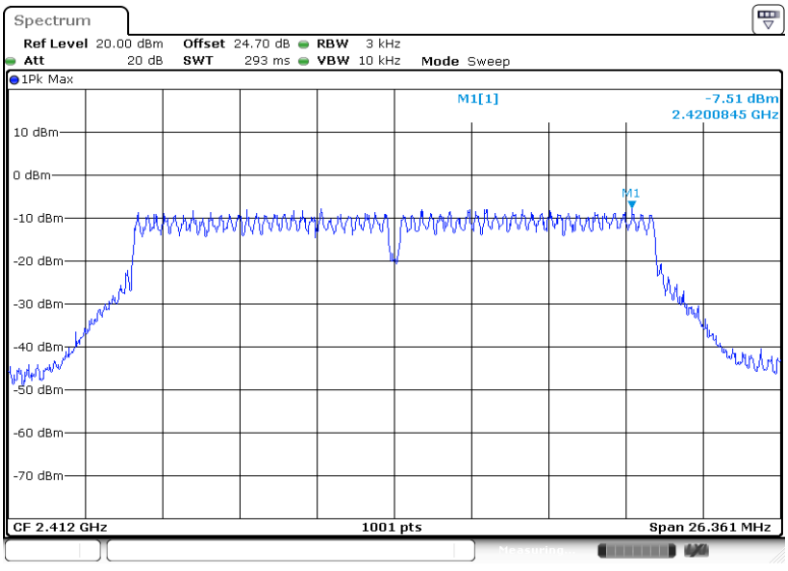
<802.11g>

Worst Case Power Density (dBm/3kHz)



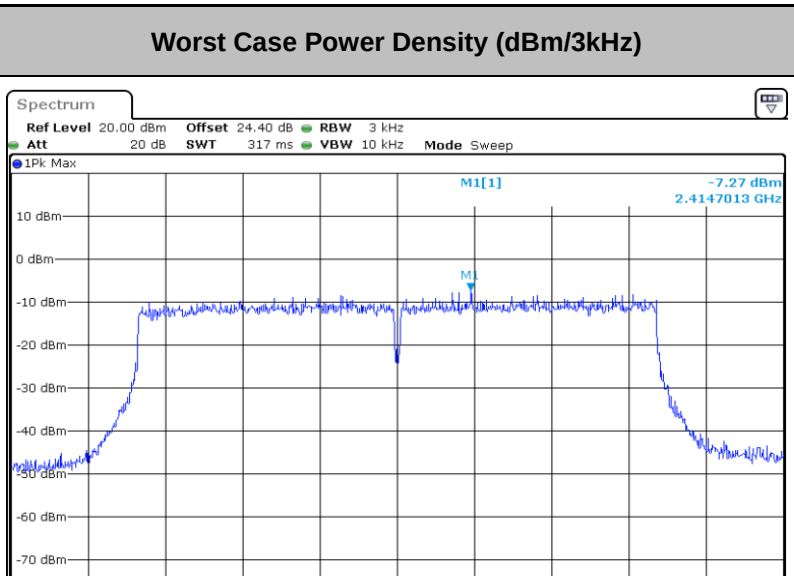
<802.11n HT20>

Worst Case Power Density (dBm/3kHz)



<802.11ax HE20>

Worst Case Power Density (dBm/3kHz)

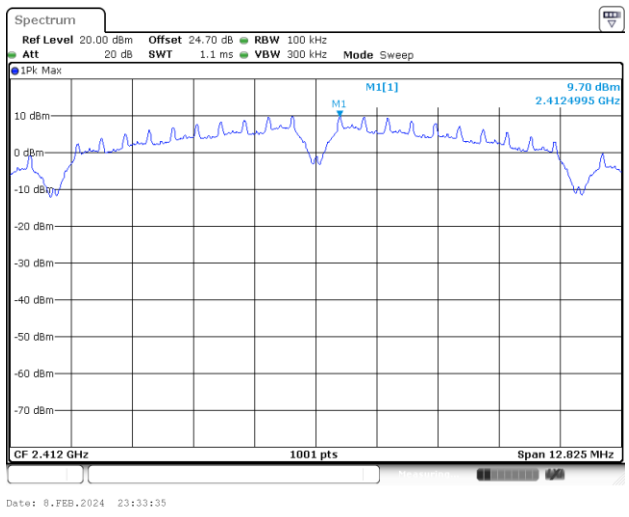


Band Edges and Spurious Emission

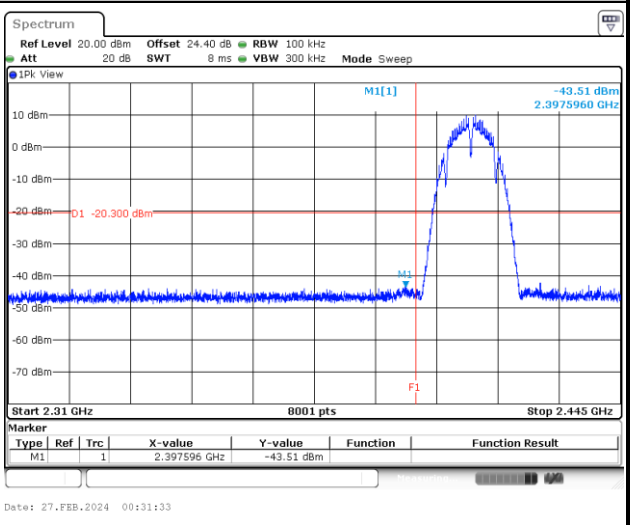
Number of TX = 1, Ant. 1 (Measured)

Test Mode :	802.11b	Test Channel :	01

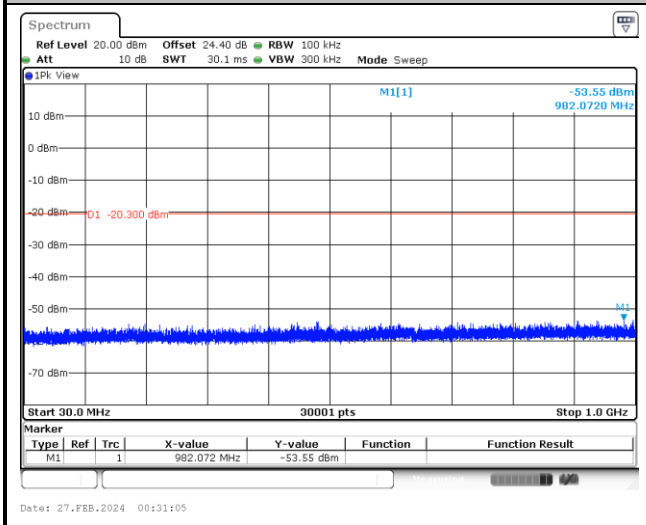
100kHz PSD reference Level



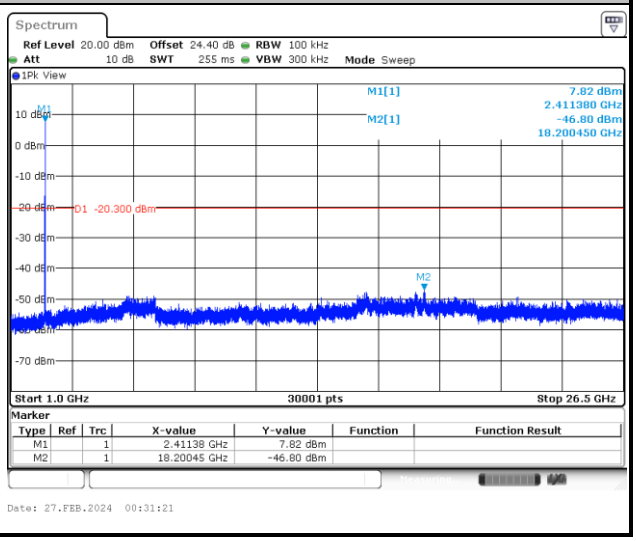
Low Channel Plot



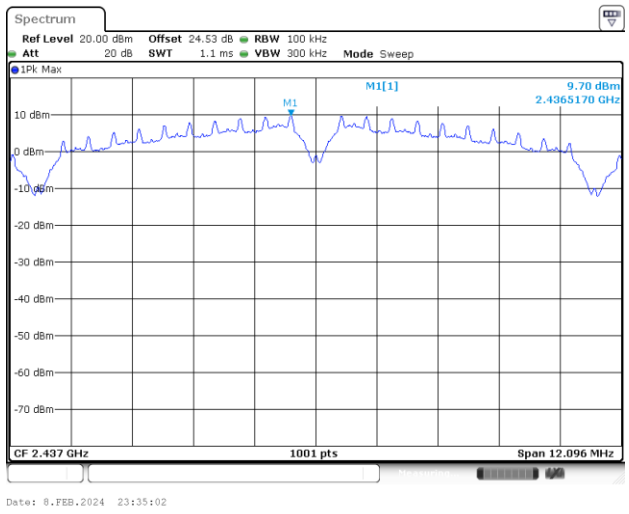
Spurious Emission 30MHz~1GHz

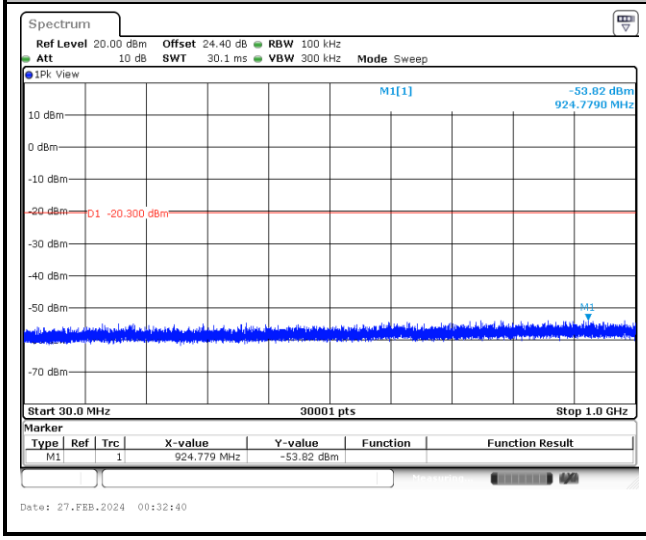
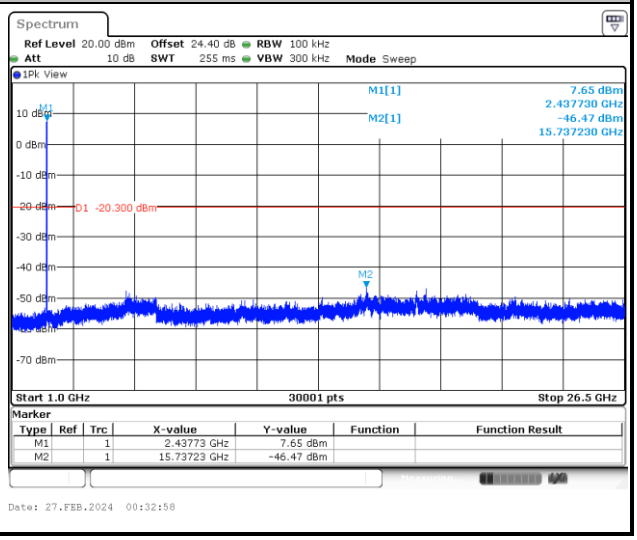


Spurious Emission 1GHz~26.5GHz

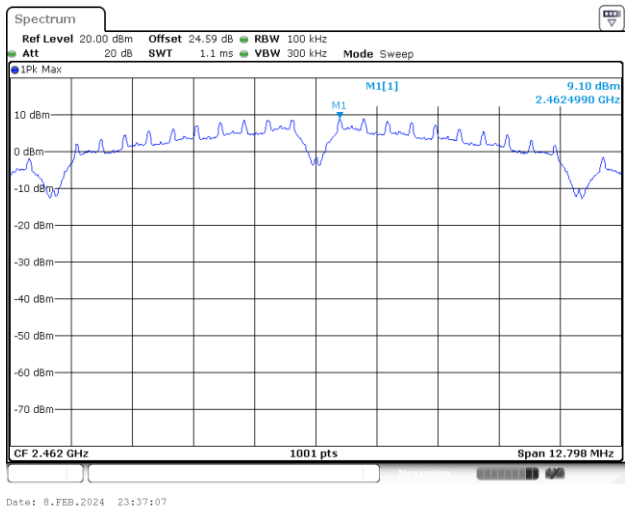
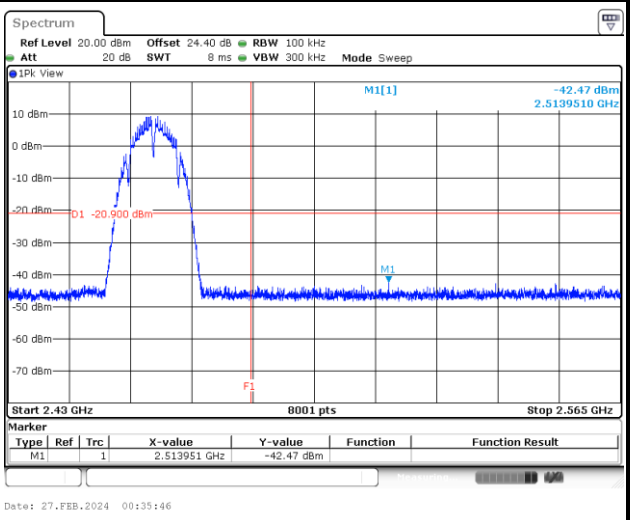
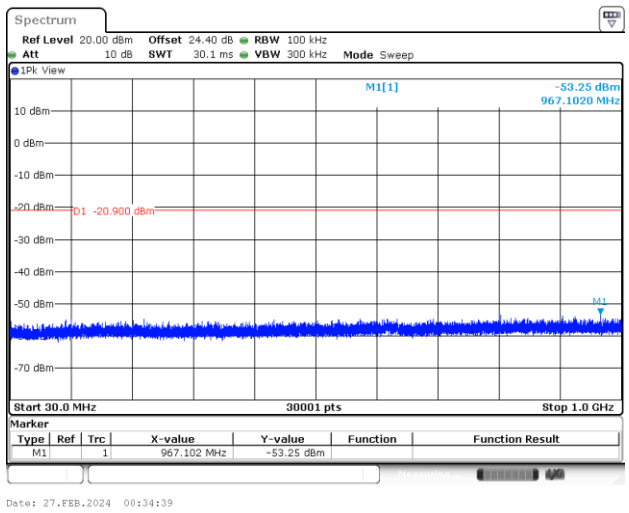
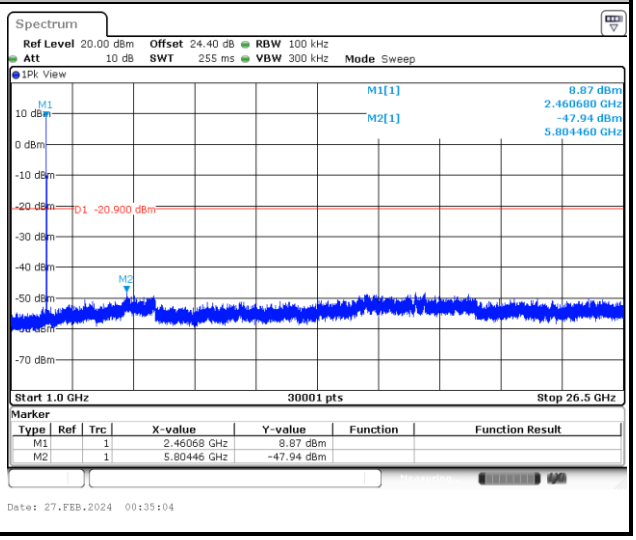


Test Mode :	802.11b	Test Channel :	06

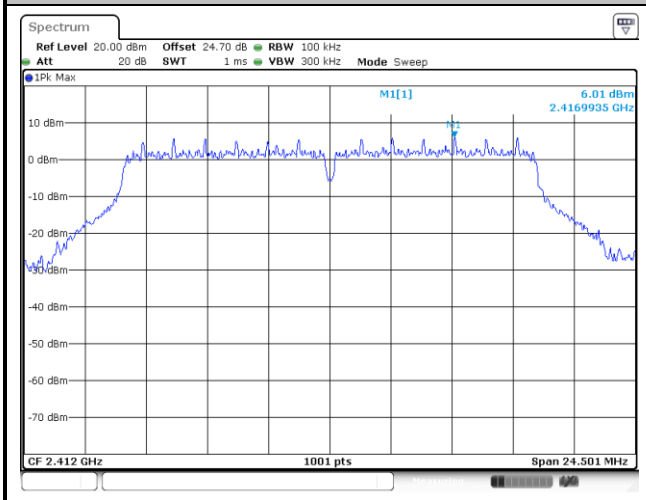
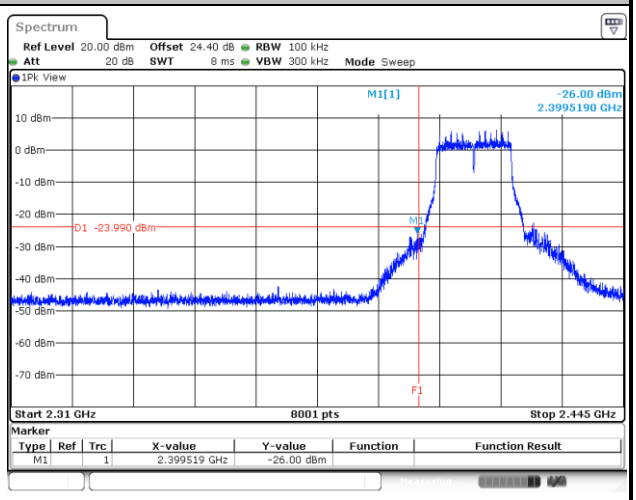
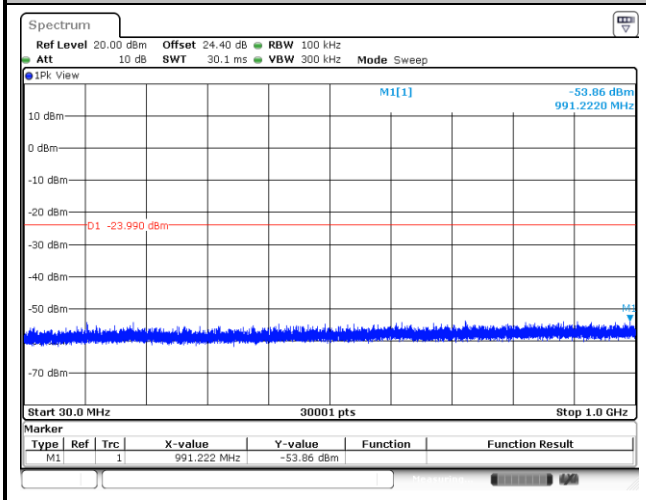
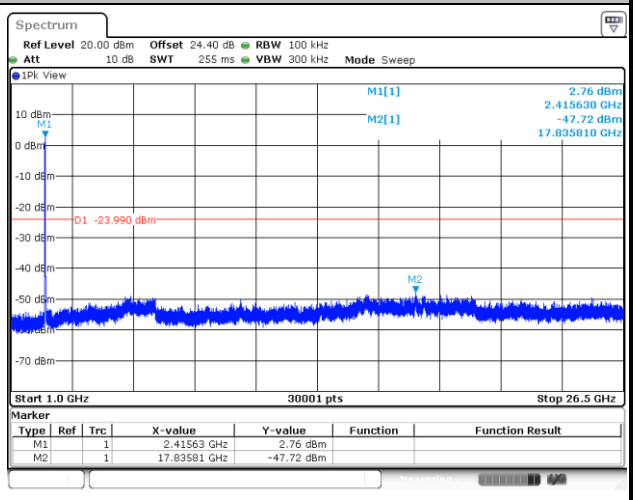
100kHz PSD reference Level	Middle Channel Plot
	

Spurious Emission 30MHz~1GHz	Spurious Emission 1GHz~26.5GHz
	

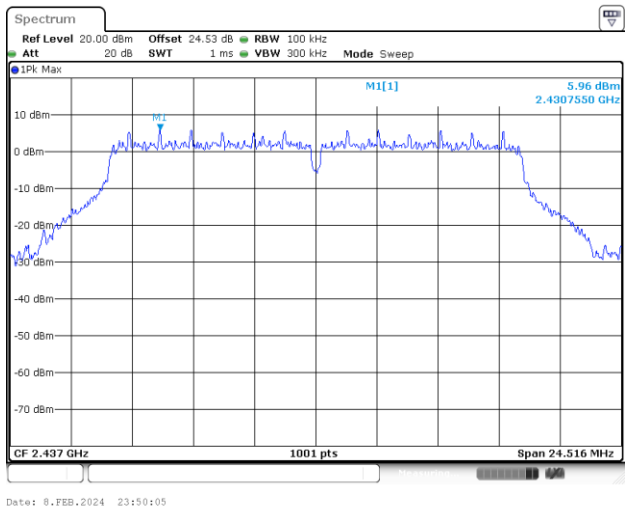
Test Mode :	802.11b	Test Channel :	11

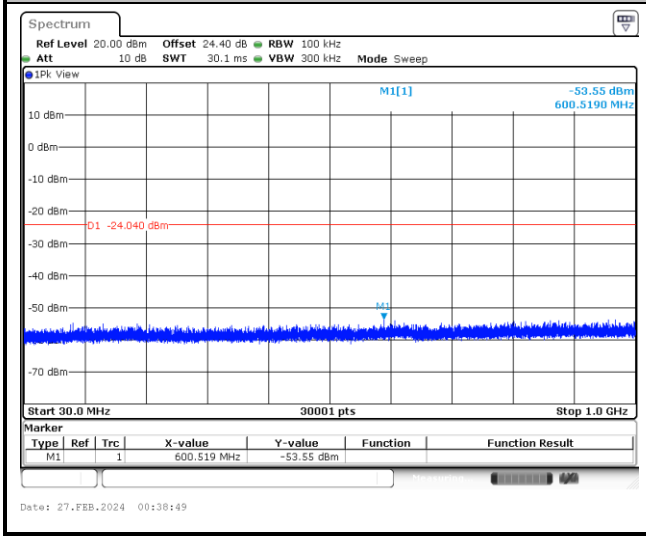
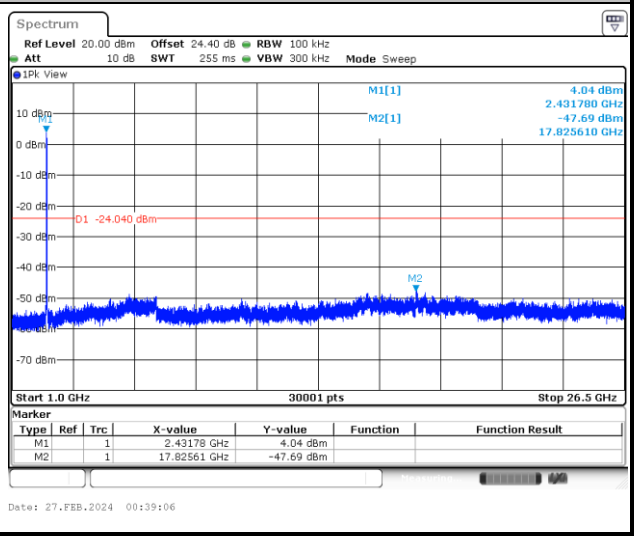
100kHz PSD reference Level	High Channel Plot
	
Spurious Emission 30MHz~1GHz	**Spurious Emission 1GHz~26.5GHz**
	

Test Mode :	802.11g	Test Channel :	01

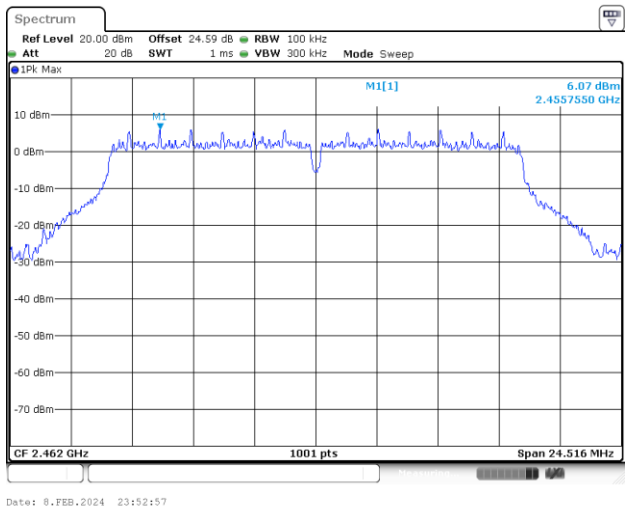
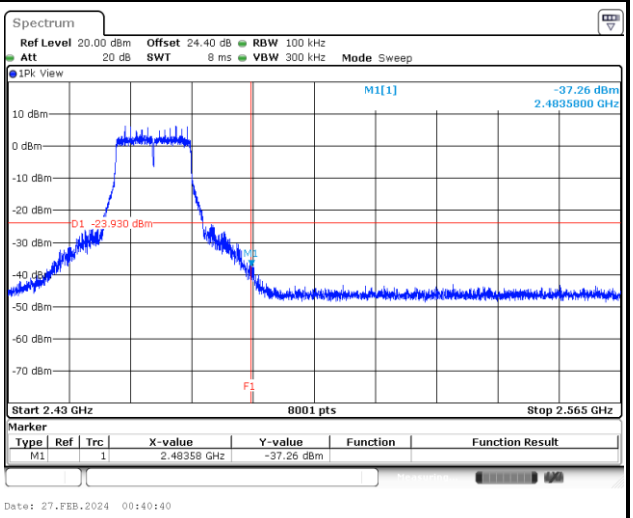
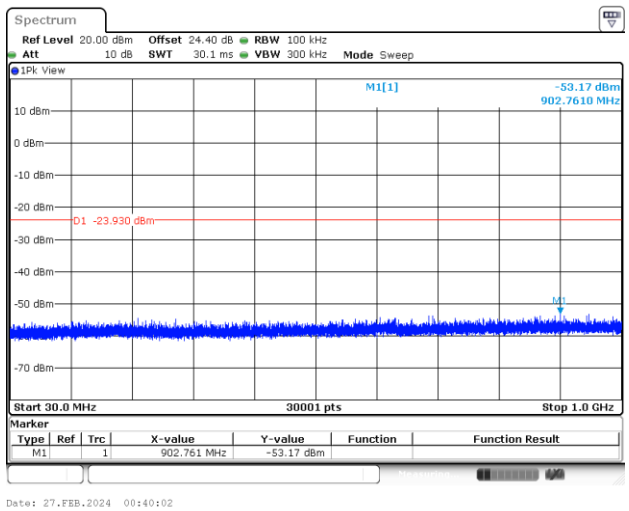
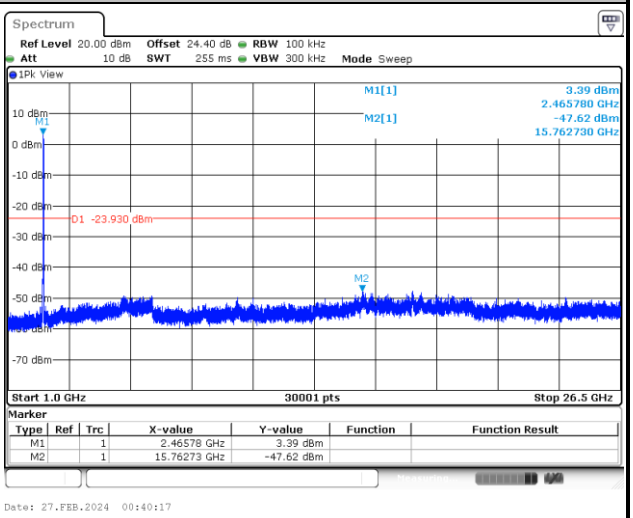
100kHz PSD reference Level	Low Channel Plot
	
Spurious Emission 30MHz~1GHz	**Spurious Emission 1GHz~26.5GHz**
	

Test Mode :	802.11g	Test Channel :	06

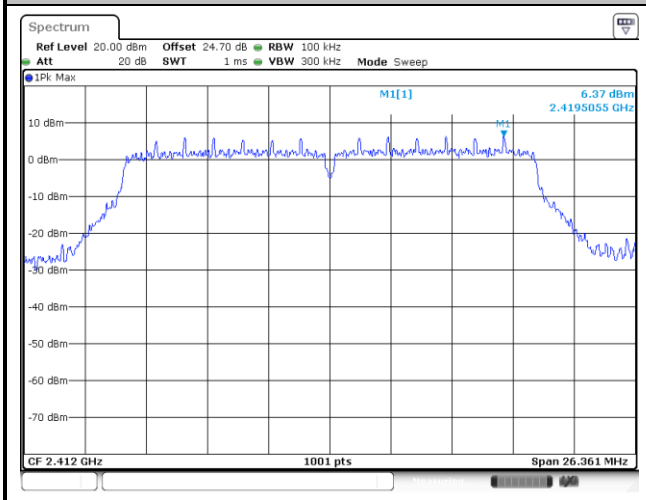
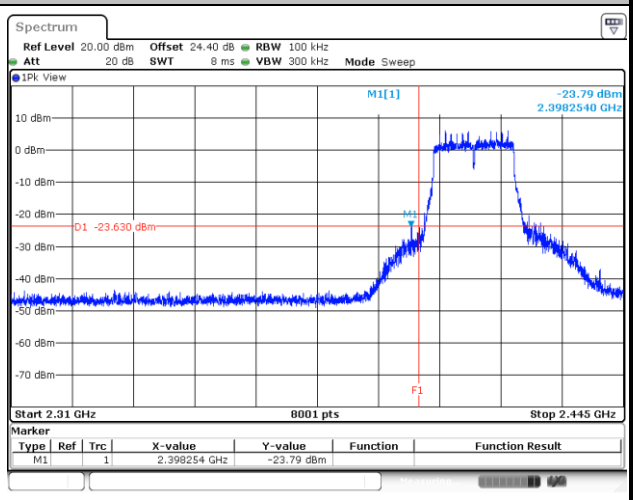
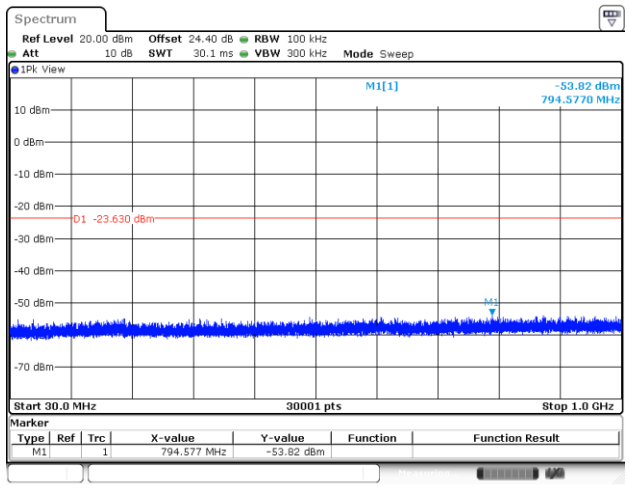
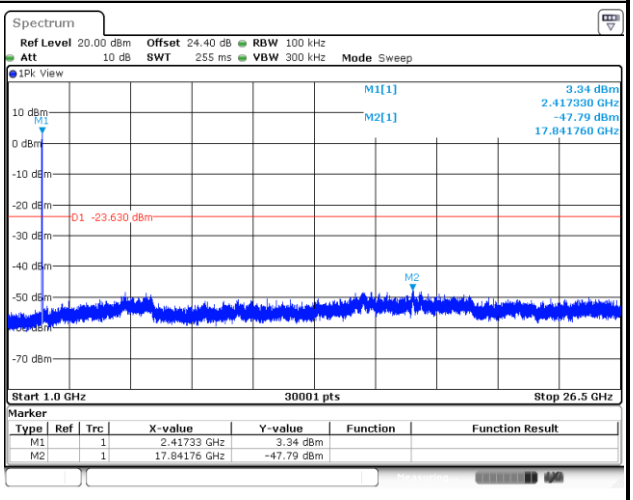
100kHz PSD reference Level	Middle Channel Plot
	

Spurious Emission 30MHz~1GHz	Spurious Emission 1GHz~26.5GHz
	

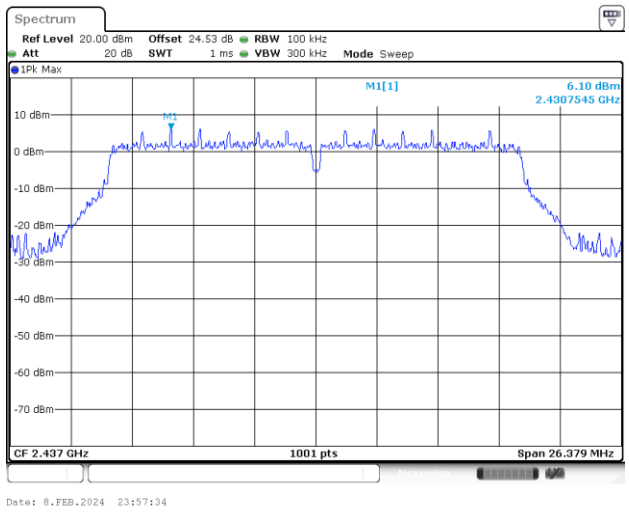
Test Mode :	802.11g	Test Channel :	11

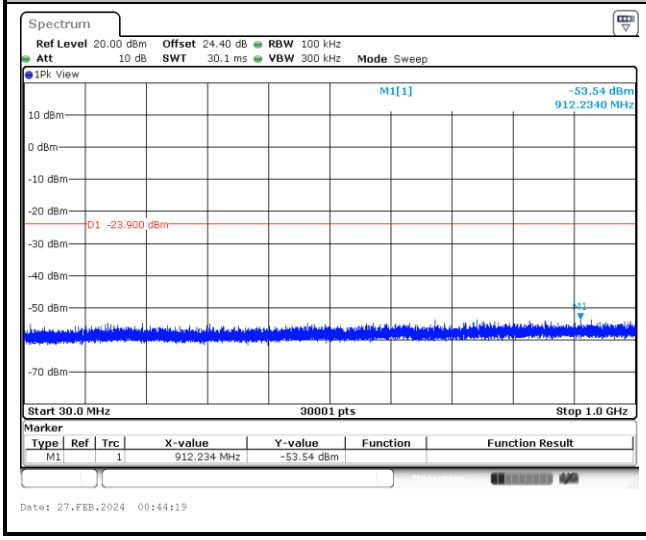
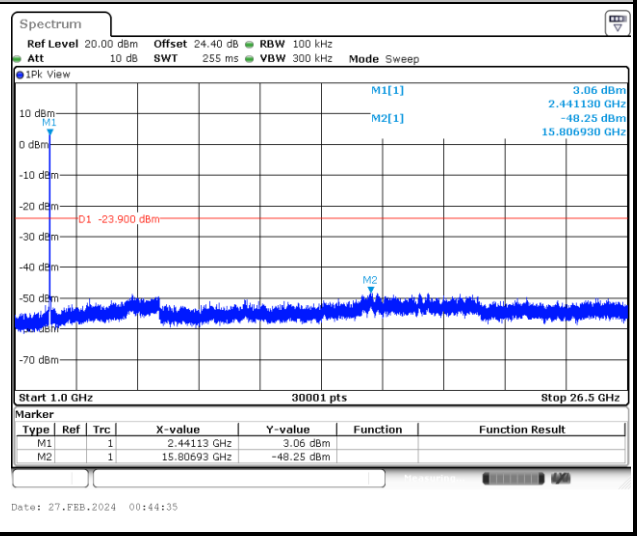
100kHz PSD reference Level	High Channel Plot
	
Spurious Emission 30MHz~1GHz	**Spurious Emission 1GHz~26.5GHz**
	

Test Mode :	802.11n HT20	Test Channel :	01

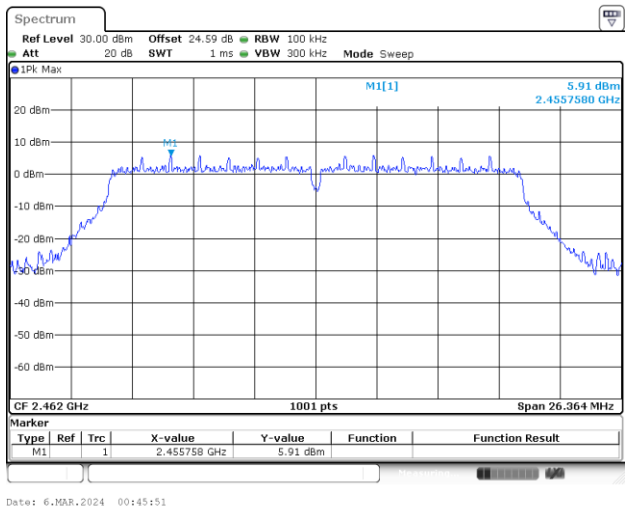
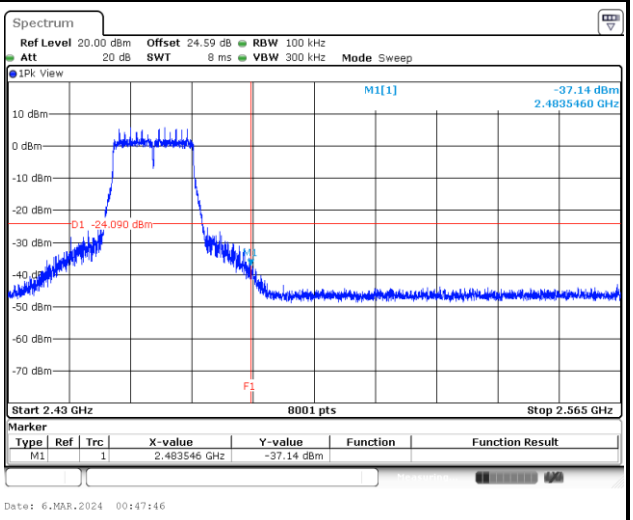
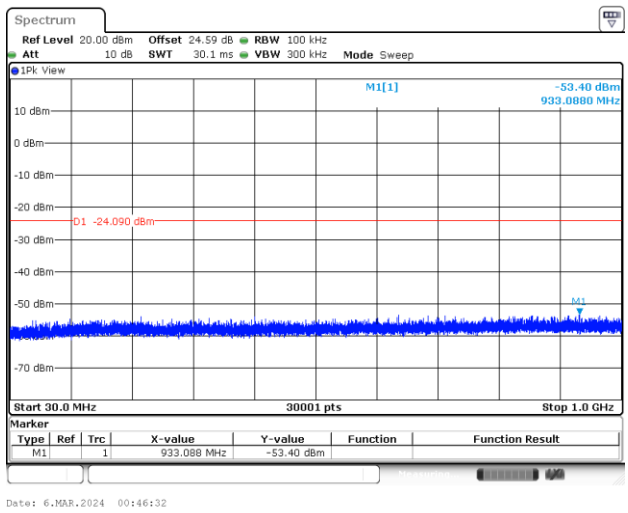
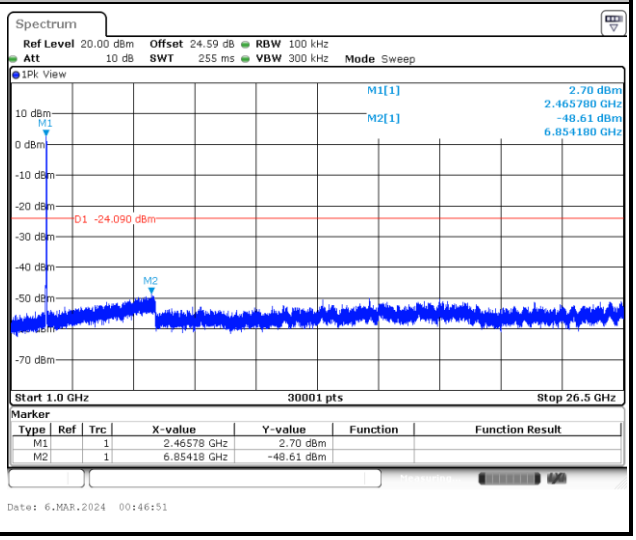
100kHz PSD reference Level	Low Channel Plot
	
Spurious Emission 30MHz~1GHz	**Spurious Emission 1GHz~26.5GHz**
	

Test Mode :	802.11n HT20	Test Channel :	06

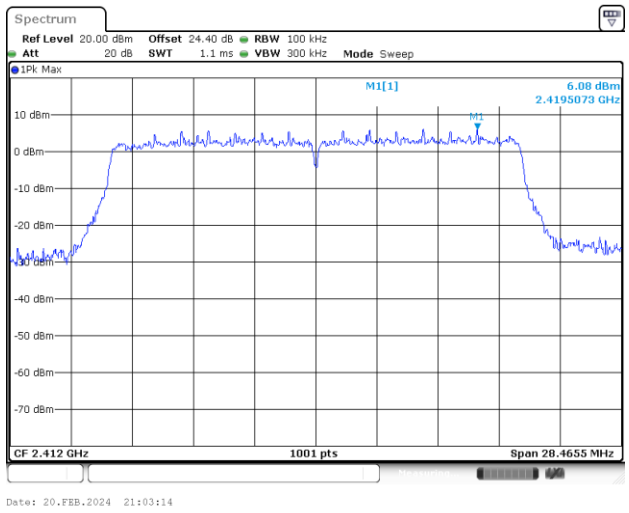
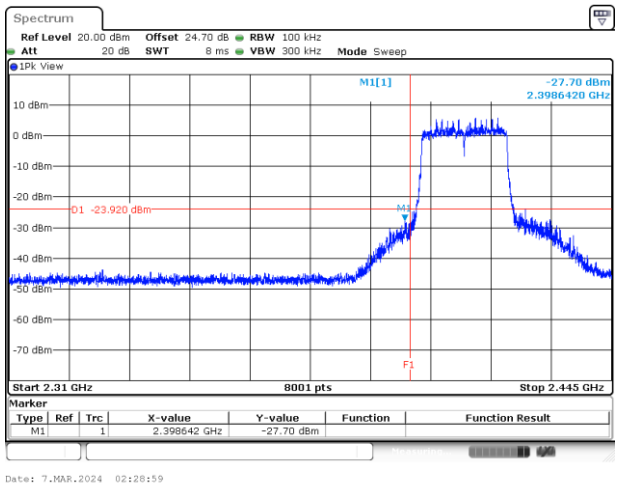
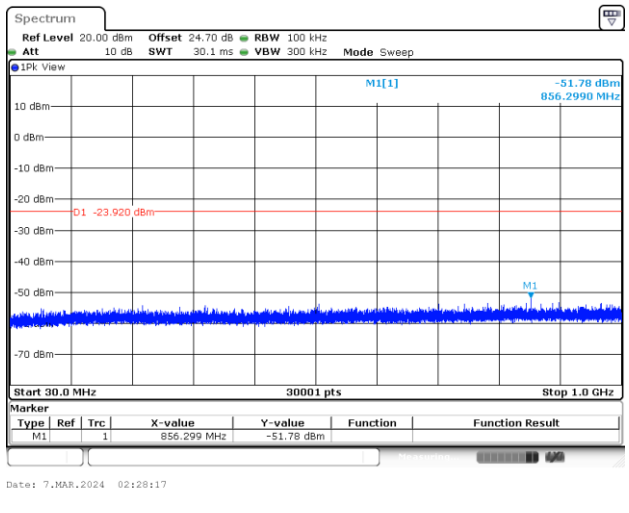
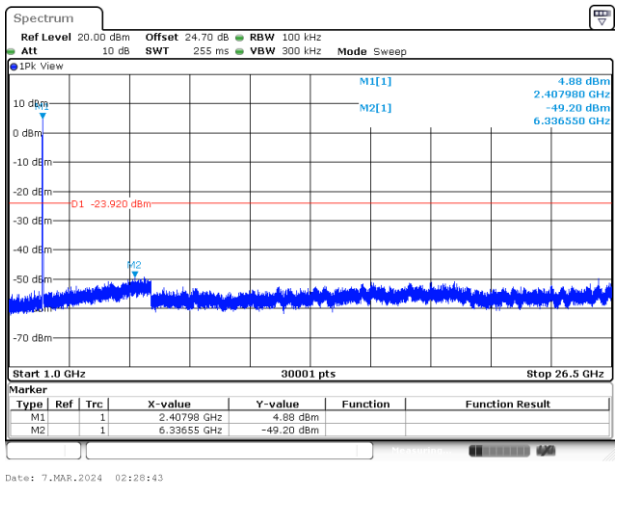
100kHz PSD reference Level	Middle Channel Plot
	

Spurious Emission 30MHz~1GHz	Spurious Emission 1GHz~26.5GHz
	

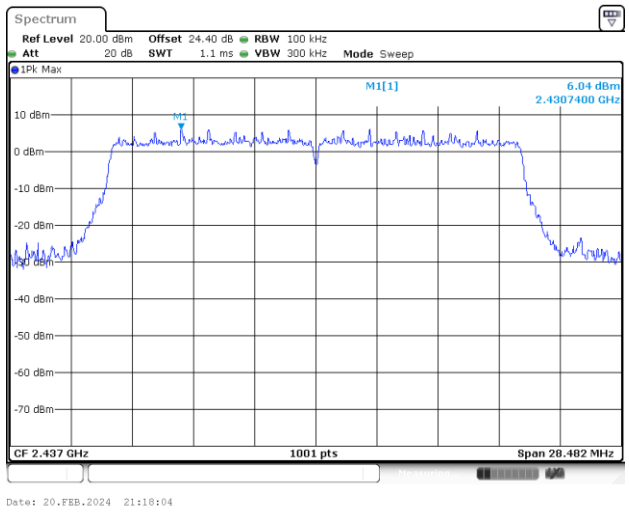
Test Mode :	802.11n HT20	Test Channel :	11

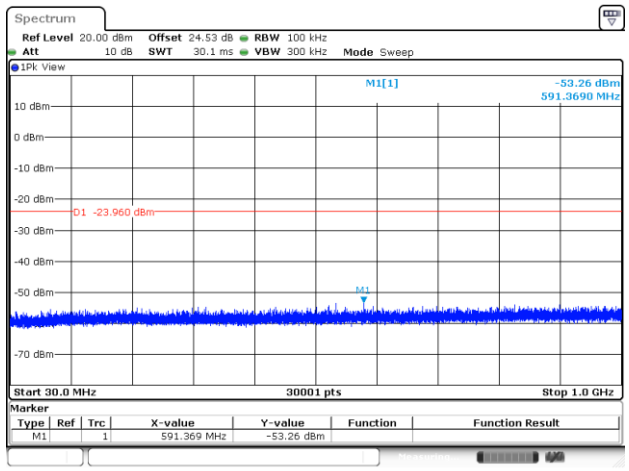
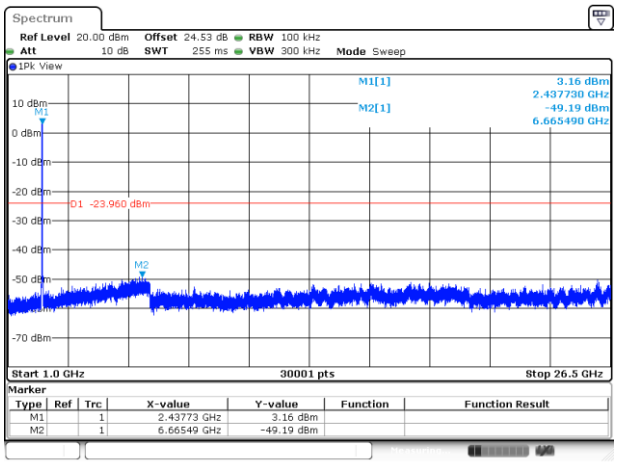
100kHz PSD reference Level	High Channel Plot
	
Spurious Emission 30MHz~1GHz	**Spurious Emission 1GHz~26.5GHz**
	

Test Mode :	802.11ax HE20_Full RU	Test Channel :	01

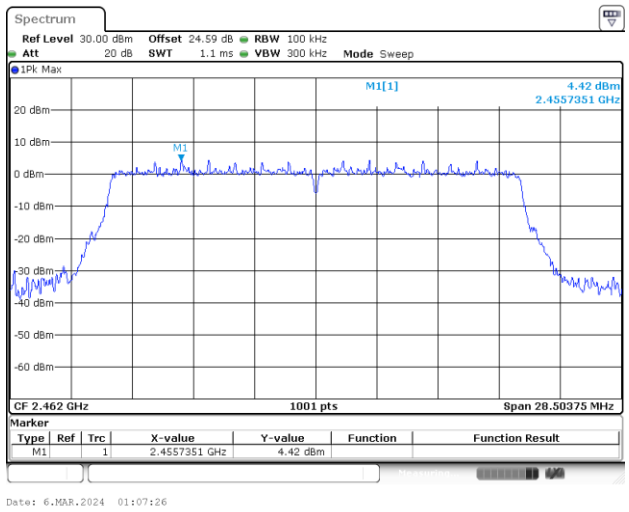
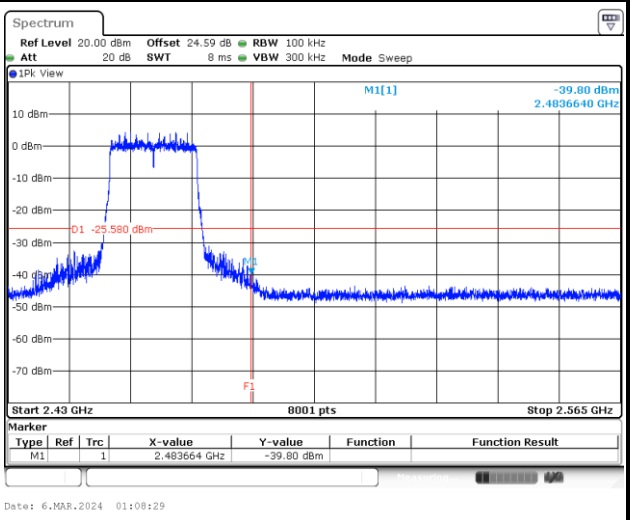
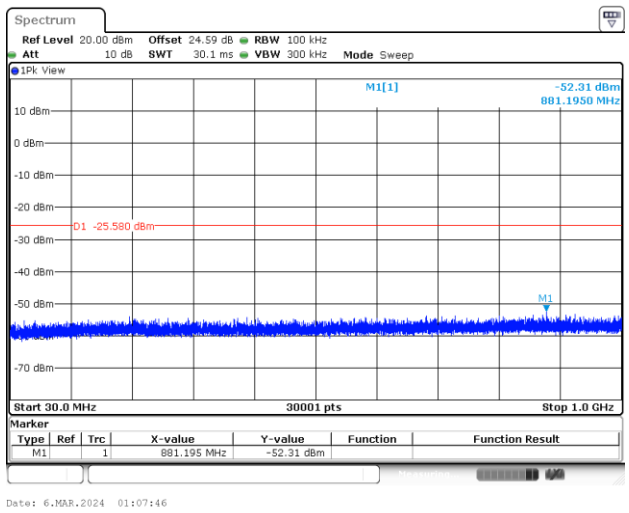
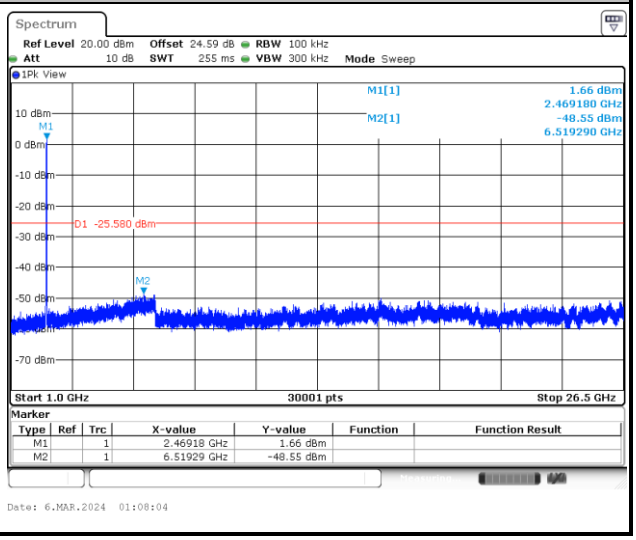
100kHz PSD reference Level	Low Channel Plot
	
Spurious Emission 30MHz~1GHz	**Spurious Emission 1GHz~26.5GHz**
	

Test Mode :	802.11ax HE20_Full RU	Test Channel :	06

100kHz PSD reference Level	Middle Channel Plot
	

Spurious Emission 30MHz~1GHz	Spurious Emission 1GHz~26.5GHz
	

Test Mode :	802.11ax HE20_Full RU	Test Channel :	11

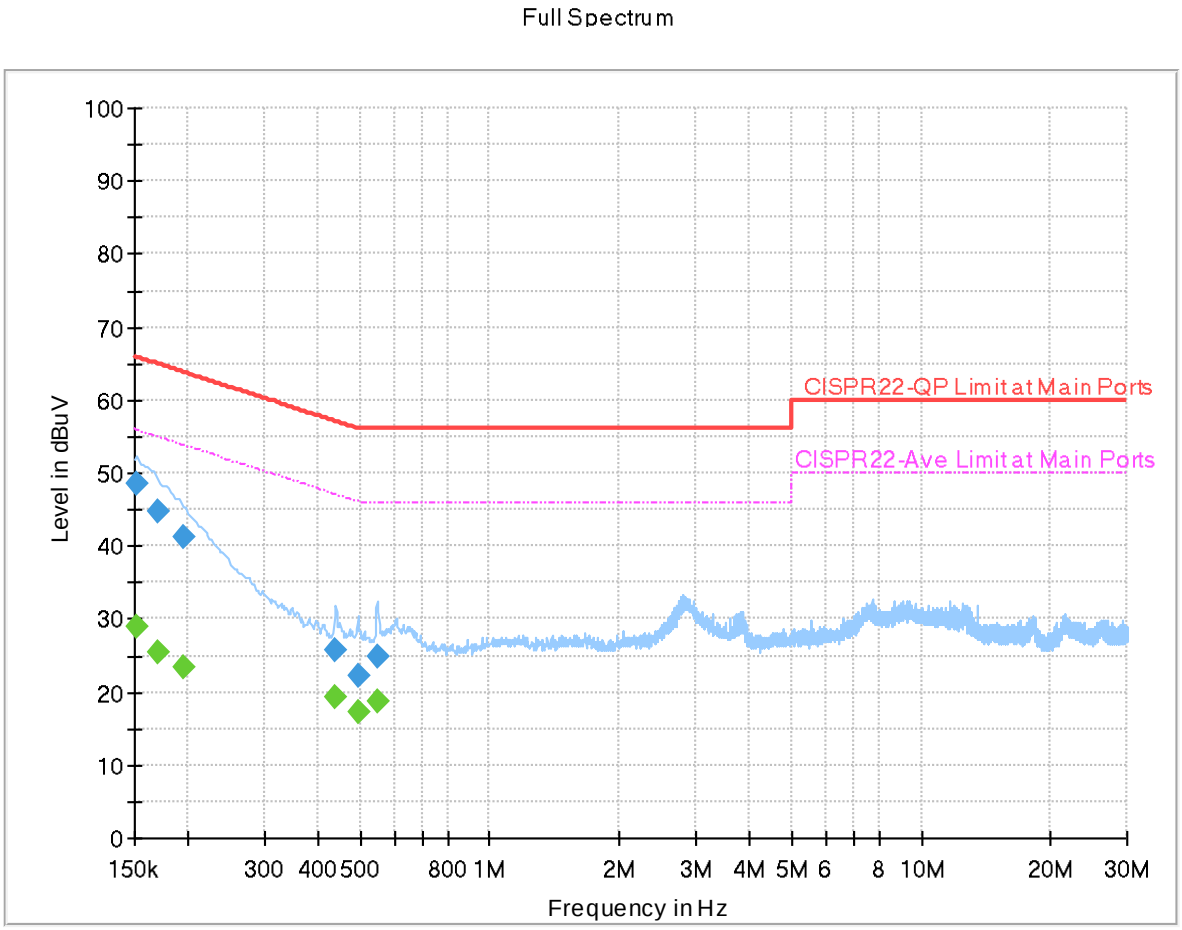
100kHz PSD reference Level	High Channel Plot
	
Spurious Emission 30MHz~1GHz	**Spurious Emission 1GHz~26.5GHz**
	

Appendix B. AC Conducted Emission Test Results

Test Engineer :	Louis Chung	**Temperature :**	20.5~21.7℃
		Relative Humidity :	41.2~46.4%

EUT Information

Report NO :	412915
Test Mode :	Mode 1
Test Voltage :	120Vac/60Hz
Phase :	Line

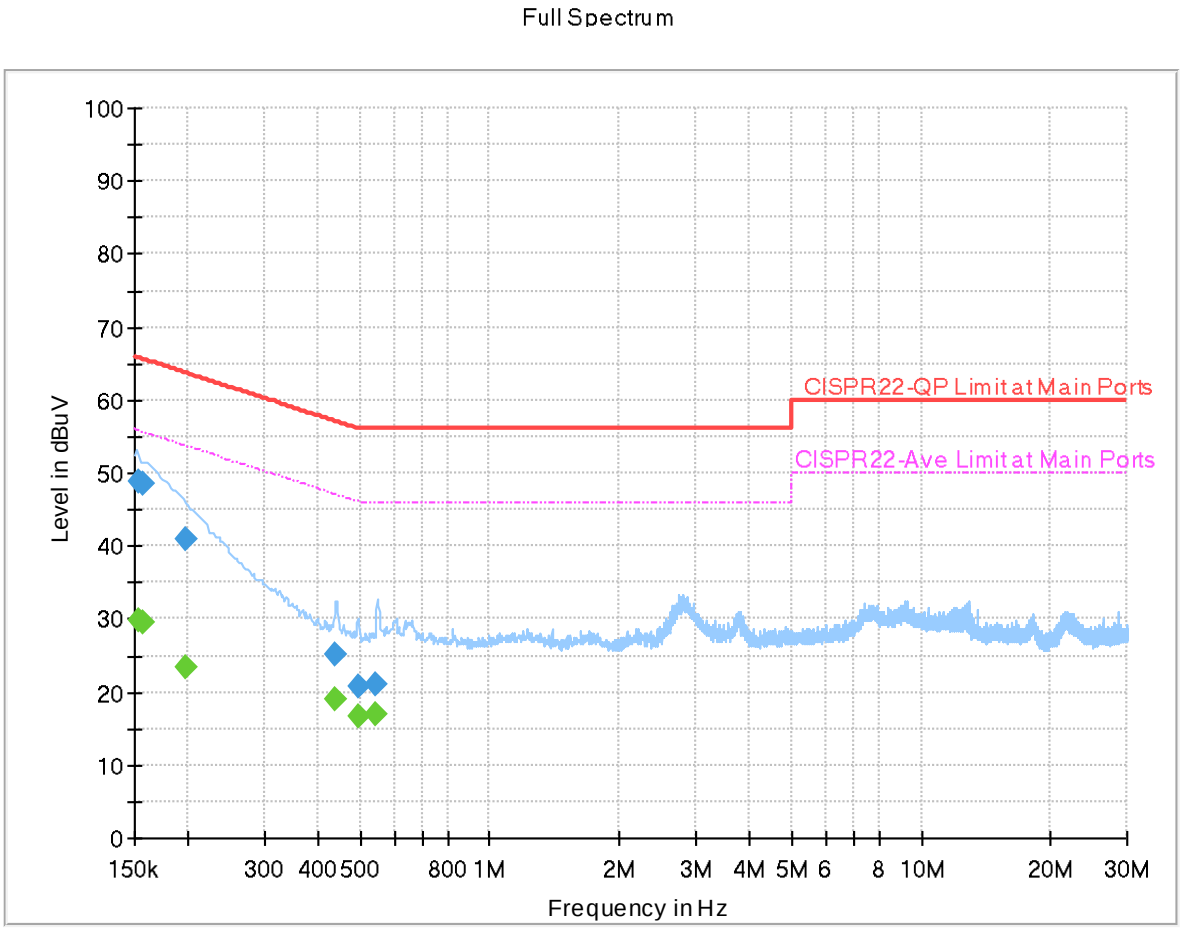


Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.151080	---	29.02	55.94	26.92	L1	OFF	19.9
0.151080	48.51	---	65.94	17.43	L1	OFF	19.9
0.170250	---	25.35	54.95	29.60	L1	OFF	19.9
0.170250	44.79	---	64.95	20.16	L1	OFF	19.9
0.194370	---	23.43	53.85	30.42	L1	OFF	19.9
0.194370	41.34	---	63.85	22.51	L1	OFF	19.9
0.439440	---	19.19	47.07	27.88	L1	OFF	19.9
0.439440	25.73	---	57.07	31.34	L1	OFF	19.9
0.495330	---	17.38	46.08	28.70	L1	OFF	19.9
0.495330	22.27	---	56.08	33.81	L1	OFF	19.9
0.552570	---	18.59	46.00	27.41	L1	OFF	19.9
0.552570	24.93	---	56.00	31.07	L1	OFF	19.9

EUT Information

Report NO :	412915
Test Mode :	Mode 1
Test Voltage :	120Vac/60Hz
Phase :	Neutral



Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.152903	---	29.85	55.84	25.99	N	OFF	19.9
0.152903	48.97	---	65.84	16.87	N	OFF	19.9
0.156750	---	29.44	55.63	26.19	N	OFF	19.9
0.156750	48.42	---	65.63	17.21	N	OFF	19.9
0.197160	---	23.49	53.73	30.24	N	OFF	19.9
0.197160	40.92	---	63.73	22.81	N	OFF	19.9
0.438000	---	19.10	47.10	28.00	N	OFF	19.9
0.438000	25.00	---	57.10	32.10	N	OFF	19.9
0.499020	---	16.53	46.02	29.49	N	OFF	19.9
0.499020	20.62	---	56.02	35.40	N	OFF	19.9
0.543750	---	17.08	46.00	28.92	N	OFF	19.9
0.543750	20.97	---	56.00	35.03	N	OFF	19.9

Appendix C. Radiated Spurious Emission

Test Engineer :	Fu Chen, Sam Chou and Troye Hsieh	Temperature :	18.9~22.1°C
		Relative Humidity :	43.7~67.1%

2.4GHz 2400~2483.5MHz

WIFI 802.11b (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.
		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11b CH 01 2412MHz		2359.035	50.79	-23.21	74	41.22	27.3	17.06	34.79	150	152	P	H
		2390	39.84	-14.16	54	30.04	27.5	17.1	34.8	150	152	A	H
	*	2412	103.27	-	-	93.44	27.5	17.13	34.8	150	152	P	H
	*	2412	100.18	-	-	90.35	27.5	17.13	34.8	150	152	A	H
													H
		2385.915	50.69	-23.31	74	40.94	27.46	17.09	34.8	300	114	P	V
		2388.225	39.86	-14.14	54	30.08	27.48	17.1	34.8	300	114	A	V
	*	2412	105.29	-	-	95.46	27.5	17.13	34.8	300	114	P	V
	*	2412	102.24	-	-	92.41	27.5	17.13	34.8	300	114	A	V
													V
802.11b CH 06 2437MHz		2388.08	51.09	-22.91	74	41.31	27.48	17.1	34.8	150	152	P	H
		2389.36	39.87	-14.13	54	30.08	27.49	17.1	34.8	150	152	A	H
	*	2437	103.53	-	-	93.57	27.6	17.16	34.8	150	152	P	H
	*	2437	100.44	-	-	90.48	27.6	17.16	34.8	150	152	A	H
		2487.44	52.01	-21.99	74	41.87	27.7	17.24	34.8	150	152	P	H
		2485.04	40.3	-13.7	54	30.17	27.7	17.23	34.8	150	152	A	H
		2376.4	50.9	-23.1	74	41.26	27.36	17.08	34.8	300	112	P	V
		2389.36	39.89	-14.11	54	30.1	27.49	17.1	34.8	300	112	A	V
	*	2437	106.6	-	-	96.64	27.6	17.16	34.8	300	112	P	V
	*	2437	103.5	-	-	93.54	27.6	17.16	34.8	300	112	A	V
		2492.72	51.65	-22.35	74	41.51	27.7	17.24	34.8	300	112	P	V
		2484.56	40.31	-13.69	54	30.18	27.7	17.23	34.8	300	112	A	V

802.11b CH 11 2462MHz	*	2462	101.66	-	-	91.74	27.52	17.2	34.8	150	150	P	H
	*	2464	98.66	-	-	88.72	27.54	17.2	34.8	150	150	A	H
		2497.28	50.86	-23.14	74	40.71	27.7	17.25	34.8	150	150	P	H
		2485.48	40.23	-13.77	54	30.1	27.7	17.23	34.8	150	150	A	H
													H
													H
	*	2462	104.42	-	-	94.5	27.52	17.2	34.8	250	125	P	V
	*	2462	101.4	-	-	91.48	27.52	17.2	34.8	250	125	A	V
		2489.52	50.88	-23.12	74	40.74	27.7	17.24	34.8	250	125	P	V
		2486.76	40.26	-13.74	54	30.12	27.7	17.24	34.8	250	125	A	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

2.4GHz 2400~2483.5MHz

WIFI 802.11b (Harmonic @ 3m)

WIFI Ant.	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)
802.11b CH 01 2412MHz		4824	41.13	-32.87	74	54.27	32.54	12.12	57.8	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
		4824	41.41	-32.59	74	54.55	32.54	12.12	57.8	-	-	P	V
													V
													V
													V
													V
													V
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													V
													V
													V

WIFI Ant.	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)
		4874	42.38	-31.62	74	55.39	32.7	12.11	57.82	-	-	P	H
		7311	51.15	-22.85	74	58.1	36.86	14.64	58.45	377	45	P	H
		7311	45.91	-8.09	54	52.86	36.86	14.64	58.45	377	45	A	H
													H
													H
													H
													H
													H
													H
													H
													H
802.11b CH 06 2437MHz													H
		4874	41.11	-32.89	74	54.12	32.7	12.11	57.82	-	-	P	V
		7311	53.27	-20.73	74	60.22	36.86	14.64	58.45	300	319	P	V
		7311	48.6	-5.4	54	55.55	36.86	14.64	58.45	300	319	A	V
													V
													V
													V
													V
													V
													V
													V
													V
													V

WIFI Ant.	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)
802.11b CH 11 2462MHz		4924	41.38	-32.62	74	54.29	32.84	12.09	57.84	-	-	P	H
		7386	48.39	-25.61	74	55.8	36.48	14.53	58.42	300	346	P	H
		7386	42.24	-11.76	54	49.65	36.48	14.53	58.42	300	346	A	H
													H
													H
													H
													H
													H
													H
													H
													H
													H
		4924	41.16	-32.84	74	54.07	32.84	12.09	57.84	-	-	P	V
		7386	50.94	-23.06	74	58.35	36.48	14.53	58.42	400	319	P	V
		7386	45.22	-8.78	54	52.63	36.48	14.53	58.42	400	319	A	V
													V
													V
													V
													V
													V
													V
													V
													V
													V

Remark

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

2.4GHz 2400~2483.5MHz

WIFI 802.11g (Band Edge @ 3m)

WIFI Ant.	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)
802.11g CH 01 2412MHz		2389.59	55.22	-18.78	74	45.42	27.5	17.1	34.8	150	153	P	H
		2390	42.65	-11.35	54	32.85	27.5	17.1	34.8	150	153	A	H
	*	2412	104.92	-	-	95.09	27.5	17.13	34.8	150	153	P	H
	*	2412	96.41	-	-	86.58	27.5	17.13	34.8	150	153	A	H
													H
													H
		2390	59.3	-14.7	74	49.5	27.5	17.1	34.8	300	114	P	V
		2389.8	44.69	-9.31	54	34.89	27.5	17.1	34.8	300	114	A	V
	*	2412	106.91	-	-	97.08	27.5	17.13	34.8	300	114	P	V
	*	2412	99.15	-	-	89.32	27.5	17.13	34.8	300	114	A	V
													V
													V
802.11g CH 06 2437MHz		2381.04	51.27	-22.73	74	41.57	27.41	17.09	34.8	150	152	P	H
		2378.8	40.7	-13.3	54	31.03	27.39	17.08	34.8	150	152	A	H
	*	2437	104.31	-	-	94.35	27.6	17.16	34.8	150	152	P	H
	*	2437	96.43	-	-	86.47	27.6	17.16	34.8	150	152	A	H
		2488.64	51.68	-22.32	74	41.54	27.7	17.24	34.8	150	152	P	H
		2497.52	41.38	-12.62	54	31.23	27.7	17.25	34.8	150	152	A	H
		2349.52	51.13	-22.87	74	41.57	27.3	17.05	34.79	300	112	P	V
		2387.44	40.71	-13.29	54	30.95	27.47	17.09	34.8	300	112	A	V
	*	2437	107.13	-	-	97.17	27.6	17.16	34.8	300	112	P	V
	*	2437	99.42	-	-	89.46	27.6	17.16	34.8	300	112	A	V
		2483.92	54.05	-19.95	74	43.92	27.7	17.23	34.8	300	112	P	V
		2484.88	41.41	-12.59	54	31.28	27.7	17.23	34.8	300	112	A	V

802.11g CH 11 2462MHz	*	2462	103.57	-	-	93.65	27.52	17.2	34.8	150	149	P	H
	*	2462	95.56	-	-	85.64	27.52	17.2	34.8	150	149	A	H
		2483.68	66.23	-7.77	74	56.1	27.7	17.23	34.8	150	149	P	H
		2483.52	46.74	-7.26	54	36.61	27.7	17.23	34.8	150	149	A	H
													H
													H
	*	2462	106.6	-	-	96.68	27.52	17.2	34.8	250	125	P	V
	*	2462	98.13	-	-	88.21	27.52	17.2	34.8	250	125	A	V
		2483.84	68.24	-5.76	74	58.11	27.7	17.23	34.8	250	125	P	V
		2483.52	48.56	-5.44	54	38.43	27.7	17.23	34.8	250	125	A	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

2.4GHz 2400~2483.5MHz

WIFI 802.11g (Harmonic @ 3m)

WIFI Ant.	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)
802.11g CH 01 2412MHz		4824	42.36	-31.64	74	55.5	32.54	12.12	57.8	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
		4824	42.26	-31.74	74	55.4	32.54	12.12	57.8	-	-	P	V
													V
													V
													V
													V
													V
													V
													V
													V
													V
													V

WIFI Ant.	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)
		4874	42.25	-31.75	74	55.26	32.7	12.11	57.82	-	-	P	H
		7311	50.35	-23.65	74	57.3	36.86	14.64	58.45	349	360	P	H
		7311	41.61	-12.39	54	48.56	36.86	14.64	58.45	349	360	A	H
													H
													H
													H
													H
													H
													H
													H
													H
802.11g CH 06 2437MHz													H
		4874	42.34	-31.66	74	55.35	32.7	12.11	57.82	-	-	P	V
		7311	53.34	-20.66	74	60.29	36.86	14.64	58.45	350	321	P	V
		7311	44.31	-9.69	54	51.26	36.86	14.64	58.45	350	321	A	V
													V
													V
													V
													V
													V
													V
													V
													V
													V

WIFI Ant.	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)
802.11g CH 11 2462MHz		4924	41.98	-32.02	74	54.89	32.84	12.09	57.84	-	-	P	H
		7386	48.94	-25.06	74	56.35	36.48	14.53	58.42	400	350	P	H
		7386	40.39	-13.61	54	47.8	36.48	14.53	58.42	400	350	A	H
													H
													H
													H
													H
													H
													H
													H
													H
													H
		4924	42.04	-31.96	74	54.95	32.84	12.09	57.84	-	-	P	V
		7386	52.56	-21.44	74	59.97	36.48	14.53	58.42	372	323	P	V
		7386	43.05	-10.95	54	50.46	36.48	14.53	58.42	372	323	A	V
													V
													V
													V
													V
													V
													V
													V
													V
													V

Remark

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

2.4GHz 2400~2483.5MHz

WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI Ant.	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)
		2389.275	60.53	-13.47	74	50.74	27.49	17.1	34.8	150	153	P	H
		2390	44.27	-9.73	54	34.47	27.5	17.1	34.8	150	153	A	H
	*	2412	104.58	-	-	94.75	27.5	17.13	34.8	150	153	P	H
	*	2412	96.41	-	-	86.58	27.5	17.13	34.8	150	153	A	H
802.11n													H
HT20													H
CH 01		2390	64.05	-9.95	74	54.25	27.5	17.1	34.8	300	112	P	V
2412MHz		2389.905	47.4	-6.6	54	37.6	27.5	17.1	34.8	300	112	A	V
	*	2412	106.74	-	-	96.91	27.5	17.13	34.8	300	112	P	V
	*	2412	99.12	-	-	89.29	27.5	17.13	34.8	300	112	A	V
													V
													V
		2380.88	51.49	-22.51	74	41.79	27.41	17.09	34.8	150	153	P	H
		2388.72	40.74	-13.26	54	30.95	27.49	17.1	34.8	150	153	A	H
	*	2437	104.85	-	-	94.89	27.6	17.16	34.8	150	153	P	H
	*	2437	95.95	-	-	85.99	27.6	17.16	34.8	150	153	A	H
802.11n		2498.96	52.4	-21.6	74	42.25	27.7	17.25	34.8	150	153	P	H
HT20		2485.28	41.32	-12.68	54	31.19	27.7	17.23	34.8	150	153	A	H
CH 06		2316.08	51.55	-22.45	74	42.03	27.3	17.01	34.79	300	111	P	V
2437MHz		2389.84	40.84	-13.16	54	31.04	27.5	17.1	34.8	300	111	A	V
	*	2437	107.06	-	-	97.1	27.6	17.16	34.8	300	111	P	V
	*	2437	99.22	-	-	89.26	27.6	17.16	34.8	300	111	A	V
		2484.56	54.57	-19.43	74	44.44	27.7	17.23	34.8	300	111	P	V
		2485.2	41.41	-12.59	54	31.28	27.7	17.23	34.8	300	111	A	V

	*	2462	102.87	-	-	92.95	27.52	17.2	34.8	150	149	P	H
	*	2462	95.03	-	-	85.11	27.52	17.2	34.8	150	149	A	H
		2484.68	66.24	-7.76	74	56.11	27.7	17.23	34.8	150	149	P	H
		2483.52	49.05	-4.95	54	38.92	27.7	17.23	34.8	150	149	A	H
802.11n													H
HT20													H
CH 11	*	2462	106.07	-	-	96.15	27.52	17.2	34.8	300	125	P	V
2462MHz	*	2462	97.35	-	-	87.43	27.52	17.2	34.8	300	125	A	V
		2484.04	71.23	-2.77	74	61.1	27.7	17.23	34.8	300	125	P	V
		2483.76	51.84	-2.16	54	41.71	27.7	17.23	34.8	300	125	A	V
													V
													V

Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.

2.4GHz 2400~2483.5MHz

WIFI 802.11n HT20 (Harmonic @ 3m)

WIFI Ant.	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)
		4824	41.39	-32.61	74	54.53	32.54	12.12	57.8	-	-	P	H
													H
													H
													H
802.11n													H
HT20													H
CH 01		4824	41.22	-32.78	74	54.36	32.54	12.12	57.8	-	-	P	V
2412MHz													V
													V
													V
													V
													V

WIFI Ant.	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)
		4874	43	-31	74	56.01	32.7	12.11	57.82	-	-	P	H
		7311	52.95	-21.05	74	59.9	36.86	14.64	58.45	397	349	P	H
		7311	40.99	-13.01	54	47.94	36.86	14.64	58.45	397	349	A	H
													H
													H
													H
													H
													H
													H
													H
													H
802.11n													H
HT20													H
CH 06		4874	41.06	-32.94	74	54.07	32.7	12.11	57.82	-	-	P	V
2437MHz		7311	54.55	-19.45	74	61.5	36.86	14.64	58.45	392	320	P	V
		7311	43.8	-10.2	54	50.75	36.86	14.64	58.45	392	320	A	V
													V
													V
													V
													V
													V
													V
													V
													V
													V

WIFI Ant.	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)
		4924	41.34	-32.66	74	54.25	32.84	12.09	57.84	-	-	P	H
		7386	49.42	-24.58	74	56.83	36.48	14.53	58.42	400	350	P	H
		7386	39.03	-14.97	54	46.44	36.48	14.53	58.42	400	350	A	H
													H
													H
													H
													H
													H
													H
													H
													H
802.11n													H
HT20													H
CH 11		4924	42.23	-31.77	74	55.14	32.84	12.09	57.84	-	-	P	V
2462MHz		7386	52.33	-21.67	74	59.74	36.48	14.53	58.42	400	322	P	V
		7386	41.63	-12.37	54	49.04	36.48	14.53	58.42	400	322	A	V
													V
													V
													V
													V
													V
													V
													V
													V
													V

Remark

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

2.4GHz 2400~2483.5MHz

WIFI 802.11ax HE20 Full (Band Edge @ 3m)

WIFI Ant.	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)
		2389.59	59.63	-14.37	74	49.83	27.5	17.1	34.8	129	4	P	H
		2390	43.74	-10.26	54	33.94	27.5	17.1	34.8	129	4	A	H
	*	2412	102.84	-	-	93.01	27.5	17.13	34.8	129	4	P	H
	*	2412	92.69	-	-	82.86	27.5	17.13	34.8	129	4	A	H
802.11ax													H
HE20 Full													H
CH 01		2390	61.9	-12.1	74	52.1	27.5	17.1	34.8	157	125	P	V
2412MHz		2389.905	46.88	-7.12	54	37.08	27.5	17.1	34.8	157	125	A	V
	*	2412	103.88	-	-	94.05	27.5	17.13	34.8	157	125	P	V
	*	2412	94.45	-	-	84.62	27.5	17.13	34.8	157	125	A	V
													V
													V
		2320.36	50.72	-23.28	74	41.2	27.3	17.01	34.79	151	2	P	H
		2386.72	40.11	-13.89	54	30.35	27.47	17.09	34.8	151	2	A	H
	*	2437	103.46	-	-	93.5	27.6	17.16	34.8	151	2	P	H
	*	2437	93.49	-	-	83.53	27.6	17.16	34.8	151	2	A	H
802.11ax		2490.08	51.54	-22.46	74	41.4	27.7	17.24	34.8	151	2	P	H
HE20 Full		2485.84	40.59	-13.41	54	30.46	27.7	17.23	34.8	151	2	A	H
CH 06		2334.92	50.25	-23.75	74	40.76	27.25	17.03	34.79	117	124	P	V
2437MHz		2389.8	40.18	-13.82	54	30.38	27.5	17.1	34.8	117	124	A	V
	*	2437	107.84	-	-	97.88	27.6	17.16	34.8	117	124	P	V
	*	2437	97.93	-	-	87.97	27.6	17.16	34.8	117	124	A	V
		2483.52	52.83	-21.17	74	42.7	27.7	17.23	34.8	117	124	P	V
		2483.68	41.01	-12.99	54	30.88	27.7	17.23	34.8	117	124	A	V

WIFI Ant.	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)
	*	2462	100.71	-	-	90.79	27.52	17.2	34.8	198	15	P	H
	*	2462	91.01	-	-	81.09	27.52	17.2	34.8	198	15	A	H
		2483.84	62.99	-11.01	74	52.86	27.7	17.23	34.8	198	15	P	H
		2483.72	45.49	-8.51	54	35.36	27.7	17.23	34.8	198	15	A	H
802.11ax													H
HE20 Full													H
CH 11	*	2462	106.84	-	-	96.92	27.52	17.2	34.8	115	270	P	V
2462MHz	*	2462	95.67	-	-	85.75	27.52	17.2	34.8	115	270	A	V
		2483.56	69.5	-4.5	74	59.37	27.7	17.23	34.8	115	270	P	V
		2483.72	50.61	-3.39	54	40.48	27.7	17.23	34.8	115	270	A	V
													V
													V

Remark

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.

2.4GHz 2400~2483.5MHz

WIFI 802.11 ax HE20 Full (Harmonic @ 3m)

WIFI Ant.	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)
		4824	43.12	-30.88	74	56.26	32.54	12.12	57.8	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
													H
802.11ax													H
HE20 Full													H
CH 01		4824	41.95	-32.05	74	55.09	32.54	12.12	57.8	-	-	P	V
2412MHz													V
													V
													V
													V
													V
													V
													V
													V
													V
													V
													V

WIFI Ant.	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)
		4874	41.47	-32.53	74	54.48	32.7	12.11	57.82	-	-	P	H
		7311	46.31	-27.69	74	53.26	36.86	14.64	58.45	300	356	P	H
		7311	42.49	-11.51	54	49.44	36.86	14.64	58.45	300	356	A	H
													H
													H
													H
													H
													H
													H
													H
802.11ax													H
HE20 Full													H
CH 06		4874	41.7	-32.3	74	54.71	32.7	12.11	57.82	-	-	P	V
2437MHz		7311	49.84	-24.16	74	56.79	36.86	14.64	58.45	250	134	P	V
		7311	45.2	-8.8	54	52.15	36.86	14.64	58.45	250	134	A	V
													V
													V
													V
													V
													V
													V
													V
													V
													V

WIFI Ant.	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)
		4924	42.13	-31.87	74	55.04	32.84	12.09	57.84	-	-	P	H
		7386	47.17	-26.83	74	54.58	36.48	14.53	58.42	393	0	P	H
		7386	42.6	-11.4	54	50.01	36.48	14.53	58.42	393	0	A	H
													H
													H
													H
													H
													H
													H
													H
													H
802.11ax													H
HE20 Full													H
CH 11		4924	42.27	-31.73	74	55.18	32.84	12.09	57.84	-	-	P	V
2462MHz		7386	47.42	-26.58	74	54.83	36.48	14.53	58.42	250	135	P	V
		7386	44.62	-9.38	54	52.03	36.48	14.53	58.42	250	135	A	V
													V
													V
													V
													V
													V
													V
													V
													V
													V

Remark

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

2.4GHz 2400~2483.5MHz

WIFI 802.11ax HE20 Partial 26 (Band Edge @ 3m)

WIFI Ant.	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 26/0 CH 01 2412MHz		2332.26	50.66	-23.34	74	41.2	27.22	17.03	34.79	300	13	P	H
		2388.855	40.53	-13.47	54	30.74	27.49	17.1	34.8	300	13	A	H
	*	2412	100.91	-	-	91.08	27.5	17.13	34.8	300	13	P	H
	*	2412	92.42	-	-	82.59	27.5	17.13	34.8	300	13	A	H
													H
													H
		2319.975	51.12	-22.88	74	41.6	27.3	17.01	34.79	101	101	P	V
		2387.7	40.4	-13.6	54	30.63	27.48	17.09	34.8	101	101	A	V
	*	2412	104.33	-	-	94.5	27.5	17.13	34.8	101	101	P	V
	*	2412	95.73	-	-	85.9	27.5	17.13	34.8	101	101	A	V
													V
													V
802.11ax HE20 Partial 26/4 CH 06 2437MHz		2336.56	50.65	-23.35	74	41.14	27.27	17.03	34.79	298	15	P	H
		2390	40.41	-13.59	54	30.61	27.5	17.1	34.8	298	15	A	H
	*	2437	100.21	-	-	90.25	27.6	17.16	34.8	298	15	P	H
	*	2437	91.49	-	-	81.53	27.6	17.16	34.8	298	15	A	H
		2485.44	51.11	-22.89	74	40.98	27.7	17.23	34.8	298	15	P	H
		2487.76	40.94	-13.06	54	30.8	27.7	17.24	34.8	298	15	A	H
		2334.32	50.41	-23.59	74	40.93	27.24	17.03	34.79	100	99	P	V
		2387.28	40.39	-13.61	54	30.63	27.47	17.09	34.8	100	99	A	V
	*	2437	105.35	-	-	95.39	27.6	17.16	34.8	100	99	P	V
	*	2437	96.49	-	-	86.53	27.6	17.16	34.8	100	99	A	V
		2500	51.39	-22.61	74	41.24	27.7	17.25	34.8	100	99	P	V
		2484.08	40.95	-13.05	54	30.82	27.7	17.23	34.8	100	99	A	V

802.11ax HE20 Partial 26/8 CH 11 2462MHz	*	2462	100.42	-	-	90.5	27.52	17.2	34.8	289	14	P	H
	*	2462	92.3	-	-	82.38	27.52	17.2	34.8	289	14	A	H
		2484.6	51.45	-22.55	74	41.32	27.7	17.23	34.8	289	14	P	H
		2486.36	40.91	-13.09	54	30.77	27.7	17.24	34.8	289	14	A	H
													H
													H
	*	2462	108.3	-	-	98.38	27.52	17.2	34.8	122	98	P	V
	*	2462	97.85	-	-	87.93	27.52	17.2	34.8	122	98	A	V
		2483.72	56.62	-17.38	74	46.49	27.7	17.23	34.8	122	98	P	V
		2485.4	40.95	-13.05	54	30.82	27.7	17.23	34.8	122	98	A	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

2.4GHz 2400~2483.5MHz

WIFI 802.11ax HE20 Partial 26 (Harmonic @ 3m)

WIFI Ant.	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 26/0 CH 01 2412MHz		4824	41.94	-32.06	74	55.08	32.54	12.12	57.8	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
		4824	41.85	-32.15	74	54.99	32.54	12.12	57.8	-	-	P	V
													V
													V
													V
													V
													V
													V
													V
													V
													V
													V

WIFI Ant.	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)
		4874	41.55	-32.45	74	54.56	32.7	12.11	57.82	-	-	P	H
		7311	43.86	-30.14	74	50.81	36.86	14.64	58.45	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
802.11ax HE20 Partial 26/4 CH 06 2437MHz													H
		4874	41.87	-32.13	74	54.88	32.7	12.11	57.82	-	-	P	V
		7311	44.03	-29.97	74	50.98	36.86	14.64	58.45	-	-	P	V
													V
													V
													V
													V
													V
													V
													V
													V
													V
													V

WIFI Ant.	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 26/8 CH 11 2462MHz		4924	41.69	-32.31	74	54.6	32.84	12.09	57.84	-	-	P	H
		7386	42.9	-31.1	74	50.31	36.48	14.53	58.42	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
		4924	42.35	-31.65	74	55.26	32.84	12.09	57.84	-	-	P	V
		7386	46.43	-27.57	74	53.84	36.48	14.53	58.42	133	360	P	V
		7386	38.48	-15.52	54	45.89	36.48	14.53	58.42	133	360	A	V
													V
													V
													V
													V
													V
													V
													V
													V
													V

Remark

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

2.4GHz 2400~2483.5MHz

WIFI 802.11ax HE20 Partial 52 (Band Edge @ 3m)

WIFI Ant.	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)
		2387.07	51.42	-22.58	74	41.66	27.47	17.09	34.8	302	12	P	H
		2385.18	40.36	-13.64	54	30.62	27.45	17.09	34.8	302	12	A	H
	*	2412	104.55	-	-	94.72	27.5	17.13	34.8	302	12	P	H
802.11ax	*	2412	93.67	-	-	83.84	27.5	17.13	34.8	302	12	A	H
HE20													H
Partial													H
52/37		2373.42	51.28	-22.72	74	41.66	27.33	17.08	34.79	100	101	P	V
CH 01		2389.065	40.42	-13.58	54	30.63	27.49	17.1	34.8	100	101	A	V
2412MHz	*	2412	105.36	-	-	95.53	27.5	17.13	34.8	100	101	P	V
	*	2412	96.46	-	-	86.63	27.5	17.13	34.8	100	101	A	V
													V
													V
	*	2462	102.21	-	-	92.29	27.52	17.2	34.8	290	13	P	H
	*	2462	92.71	-	-	82.79	27.52	17.2	34.8	290	13	A	H
		2485.48	52.79	-21.21	74	42.66	27.7	17.23	34.8	290	13	P	H
802.11ax		2486.2	41.01	-12.99	54	30.88	27.7	17.23	34.8	290	13	A	H
HE20													H
Partial													H
52/40	*	2462	107.48	-	-	97.56	27.52	17.2	34.8	121	99	P	V
CH 11	*	2462	98.04	-	-	88.12	27.52	17.2	34.8	121	99	A	V
2462MHz		2484.08	57.13	-16.87	74	47	27.7	17.23	34.8	121	99	P	V
		2483.72	41.11	-12.89	54	30.98	27.7	17.23	34.8	121	99	A	V
													V
													V

Remark

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.

2.4GHz 2400~2483.5MHz

WIFI 802.11ax HE20 Partial 52 (Harmonic @ 3m)

WIFI Ant.	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)
		4824	41.68	-32.32	74	54.82	32.54	12.12	57.8	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
802.11ax													H
HE20													H
Partial													H
52/37		4824	41.7	-32.3	74	54.84	32.54	12.12	57.8	-	-	P	V
CH 01													V
2412MHz													V
													V
													V
													V
													V
													V
													V
													V
													V
													V

WIFI Ant.	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)
		4924	41.25	-32.75	74	54.16	32.84	12.09	57.84	-	-	P	H
		7386	43.07	-30.93	74	50.48	36.48	14.53	58.42	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
802.11ax													H
HE20													H
Partial													H
52/40		4924	41.1	-32.9	74	54.01	32.84	12.09	57.84	-	-	P	V
CH 11		7386	47.23	-26.77	74	54.64	36.48	14.53	58.42	300	142	P	V
2462MHz		7386	45.44	-8.56	54	52.85	36.48	14.53	58.42	300	142	A	V
													V
													V
													V
													V
													V
													V
													V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line. 3. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only.												

2.4GHz 2400~2483.5MHz

WIFI 802.11ax HE20 Partial 106 (Band Edge @ 3m)

WIFI Ant.	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)
		2378.145	51.59	-22.41	74	41.93	27.38	17.08	34.8	302	14	P	H
		2382.765	40.52	-13.48	54	30.8	27.43	17.09	34.8	302	14	A	H
	*	2412	102.92	-	-	93.09	27.5	17.13	34.8	302	14	P	H
802.11ax	*	2412	93.53	-	-	83.7	27.5	17.13	34.8	302	14	A	H
HE20													H
Partial													H
106/53		2390	51.18	-22.82	74	41.38	27.5	17.1	34.8	126	278	P	V
CH 01		2389.275	40.52	-13.48	54	30.73	27.49	17.1	34.8	126	278	A	V
2412MHz	*	2412	106.76	-	-	96.93	27.5	17.13	34.8	126	278	P	V
	*	2412	97.69	-	-	87.86	27.5	17.13	34.8	126	278	A	V
													V
													V
	*	2462	101.76	-	-	91.84	27.52	17.2	34.8	290	13	P	H
	*	2462	92.31	-	-	82.39	27.52	17.2	34.8	290	13	A	H
		2483.56	55.67	-18.33	74	45.54	27.7	17.23	34.8	290	13	P	H
802.11ax		2487.08	41.02	-12.98	54	30.88	27.7	17.24	34.8	290	13	A	H
HE20													H
Partial													H
106/54	*	2462	106.58	-	-	96.66	27.52	17.2	34.8	121	270	P	V
CH 11	*	2462	96.51	-	-	86.59	27.52	17.2	34.8	121	270	A	V
2462MHz		2484.12	59.96	-14.04	74	49.83	27.7	17.23	34.8	121	270	P	V
		2483.52	41.85	-12.15	54	31.72	27.7	17.23	34.8	121	270	A	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

2.4GHz 2400~2483.5MHz

WIFI 802.11ax HE20 Partial 106 (Harmonic @ 3m)

WIFI Ant.	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)
		4824	40.95	-33.05	74	54.09	32.54	12.12	57.8	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
802.11ax													H
HE20													H
Partial													H
106/53		4824	40.84	-33.16	74	53.98	32.54	12.12	57.8	-	-	P	V
CH 01													V
2412MHz													V
													V
													V
													V
													V
													V
													V
													V
													V
													V

WIFI Ant.	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)
		4924	41.82	-32.18	74	54.73	32.84	12.09	57.84	-	-	P	H
		7386	48.14	-25.86	74	55.55	36.48	14.53	58.42	350	355	P	H
		7386	42.13	-11.87	54	49.54	36.48	14.53	58.42	350	355	A	H
													H
													H
													H
													H
													H
													H
													H
802.11ax													H
HE20													H
Partial													H
106/54		4924	41.79	-32.21	74	54.7	32.84	12.09	57.84	-	-	P	V
CH 11		7386	49.15	-24.85	74	56.56	36.48	14.53	58.42	250	133	P	V
2462MHz		7386	43.92	-10.08	54	51.33	36.48	14.53	58.42	250	133	A	V
													V
													V
													V
													V
													V
													V
													V
													V
													V

Remark

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

2.4GHz 2400~2483.5MHz

Emission above 18GHz

2.4GHz WIFI 802.11n HT20 (SHF)

WIFI	Note	Frequency	Level	Margin	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.					Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
		24860.7	38.73	-35.27	74	35.24	39.28	17.57	53.36	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
													H
2.4GHz													H
802.11n													H
HT20		24828.3	38.77	-35.23	74	35.35	39.26	17.53	53.37	-	-	P	V
SHF													V
													V
													V
													V
													V
													V
													V
													V
													V
													V
													V

Remark

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

Emission below 1GHz

2.4GHz WIFI 802.11n HT20 (LF)

WIFI	Note	Frequency	Level	Margin	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.					Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
	1	31.62	24.6	-15.4	40	33.04	23.37	0.63	32.44	-	-	P	H
	2	54.03	24.4	-15.6	40	43.16	12.63	0.78	32.17	-	-	P	H
	3	97.77	27.32	-16.18	43.5	42.8	15.64	1.26	32.38	-	-	P	H
	4	766.2	31.88	-14.12	46	31.36	28.07	3.98	31.53	-	-	P	H
	5	894.3	32.6	-13.4	46	30.86	28.92	4.34	31.52	-	-	P	H
	6	953.8	33.83	-12.17	46	29.43	30.8	4.55	30.95	-	-	P	H
													H
													H
													H
													H
2.4GHz													H
802.11n													H
HT20	1	47.55	32.95	-7.05	40	48.96	15.49	0.74	32.24	-	-	P	V
LF	2	97.5	32.76	-10.74	43.5	48.26	15.61	1.27	32.38	-	-	P	V
	3	111	27.99	-15.51	43.5	42.02	16.83	1.32	32.18	-	-	P	V
	4	864.9	32.3	-13.7	46	30.57	29.14	4.19	31.6	-	-	P	V
	5	949.6	34.09	-11.91	46	30	30.55	4.54	31	-	-	P	V
	6	958.7	34.55	-11.45	46	29.93	30.95	4.56	30.89	-	-	P	V
													V
													V
													V
													V
													V
													V

Remark

1. No other spurious found.
2. All results are PASS against limit line.
3. The emission position marked as “-” means no suspected emission found and emission level has at least 6dB margin against limit or emission is noise floor only.

Note symbol

*	**Fundamental Frequency** which can be ignored. However, the level of any unwanted emissions shall not exceed the level of the fundamental frequency.
!	Test result is **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	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11b CH 01 2412MHz		2390	55.45	-18.55	74	54.51	32.22	4.58	35.86	103	308	P	H
		2390	43.54	-10.46	54	42.6	32.22	4.58	35.86	103	308	A	H

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. Over Limit(dB) = Level(dBμV/m) – Limit Line(dBμV/m)

For Peak Limit @ 2390MHz:

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. Over Limit(dB)

= Level(dBμV/m) – Limit Line(dBμV/m)

= 55.45(dBμV/m) – 74(dBμV/m)

= -18.55(dB)

For Average Limit @ 2390MHz:

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. Over Limit(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

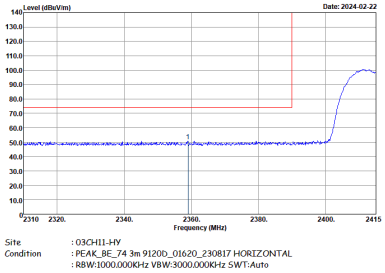
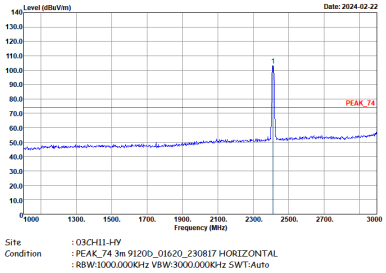
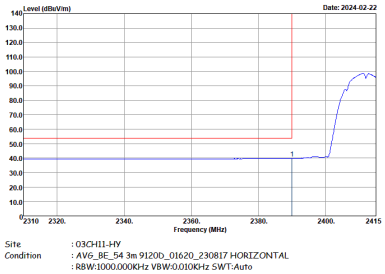
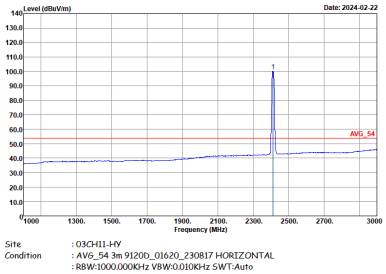
Test Engineer :	Fu Chen, Sam Chou and Troye Hsieh	**Temperature :**	18.9~22.1°C
		Relative Humidity :	43.7~67.1%

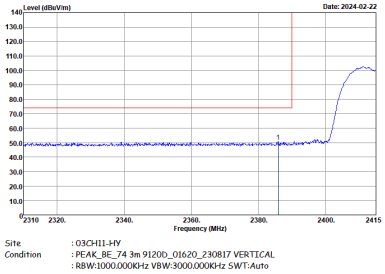
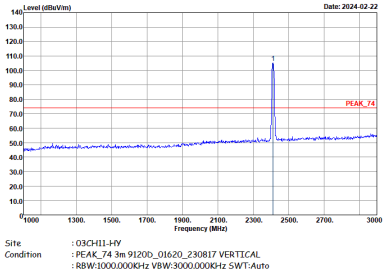
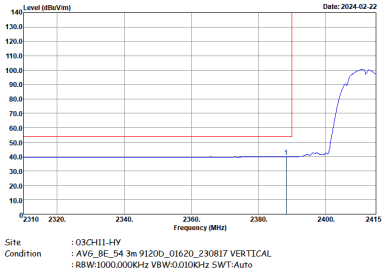
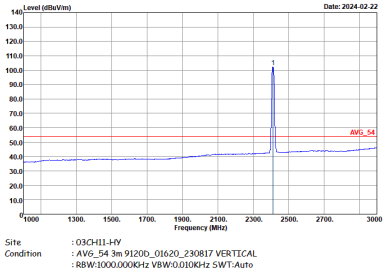
Note symbol

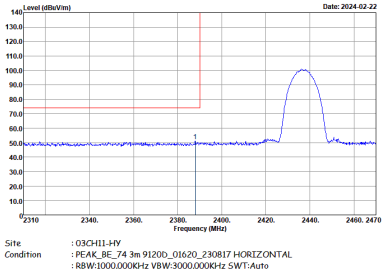
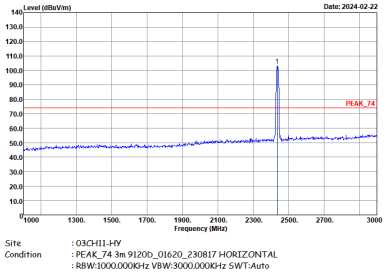
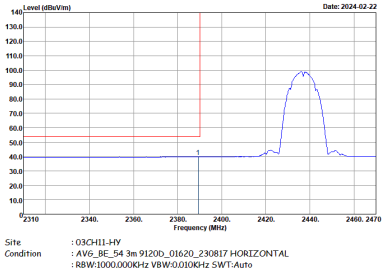
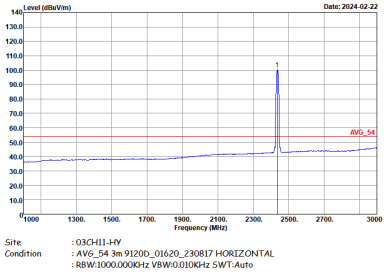
-L	**Low channel location**
-R	**High channel location**

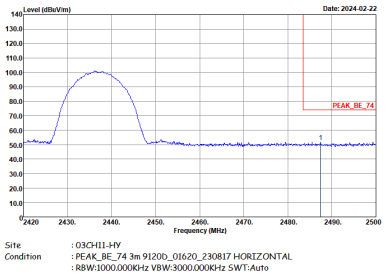
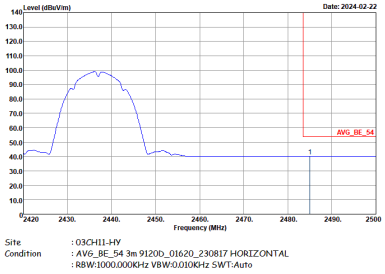
2.4GHz 2400~2483.5MHz

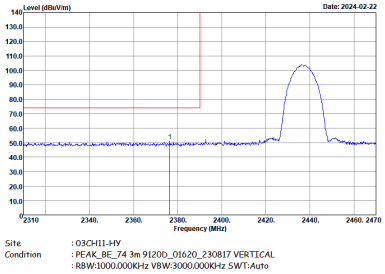
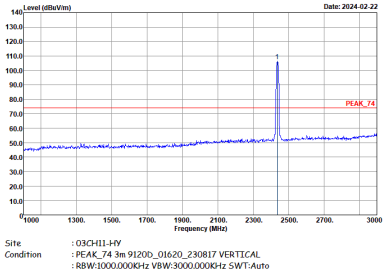
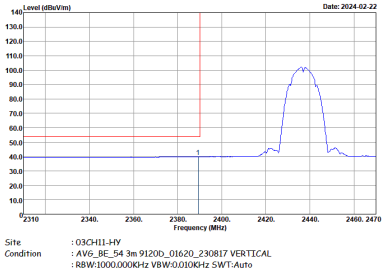
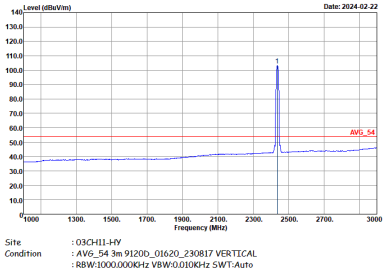
WIFI 802.11b (Band Edge @ 3m)

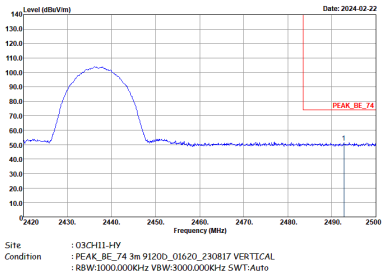
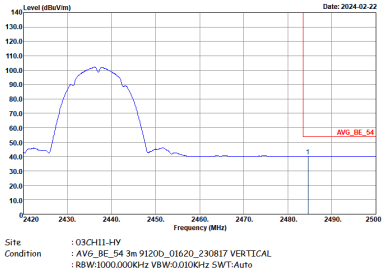
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH01 2412MHz	
	Horizontal	Fundamental
Peak		
Avg.		

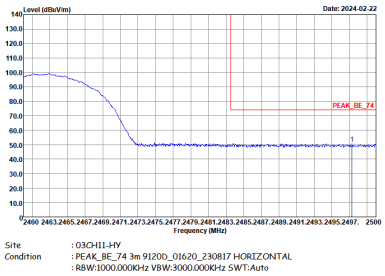
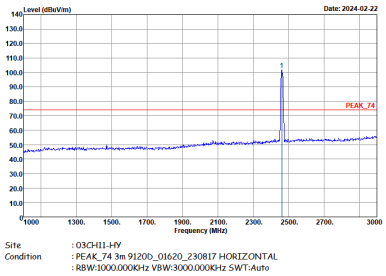
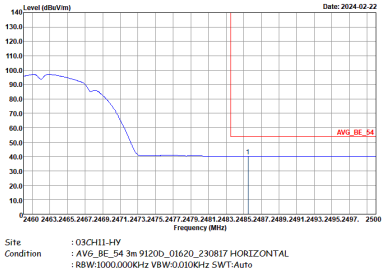
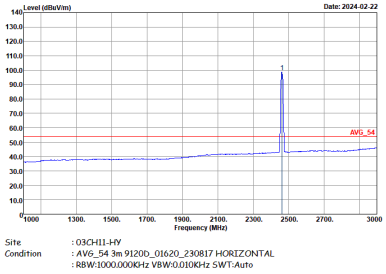
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH01 2412MHz	
	Vertical	Fundamental
Peak		
Avg.		

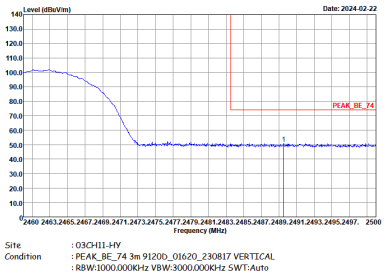
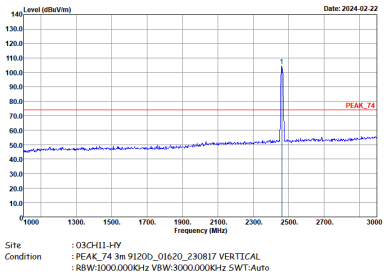
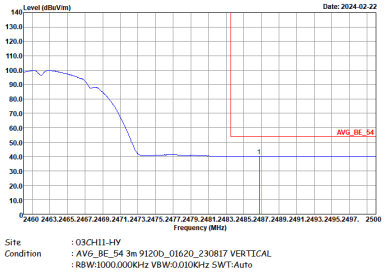
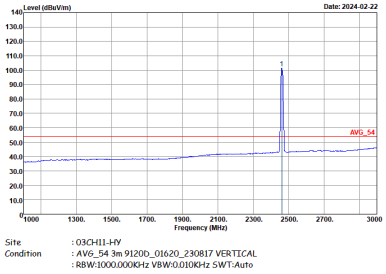
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH06 2437MHz - L	
	Horizontal	Fundamental
Peak		
Avg.		

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH06 2437MHz - R	
	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH06 2437MHz - L	
	Vertical	Fundamental
Peak		
Avg.		

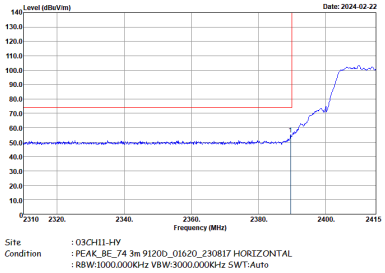
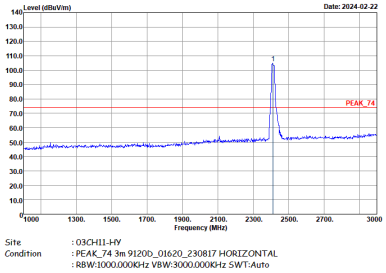
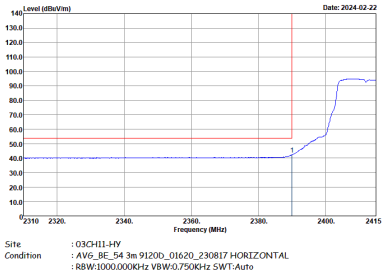
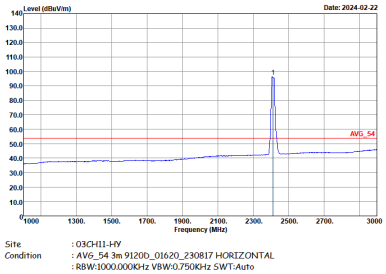
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH06 2437MHz - R	
	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

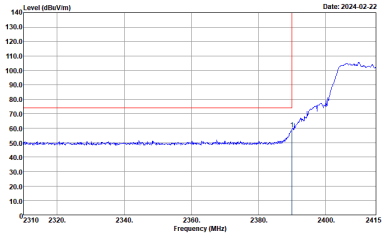
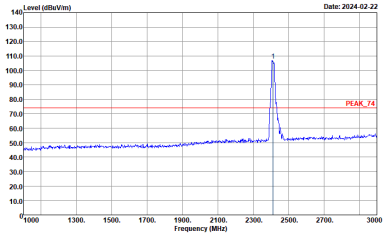
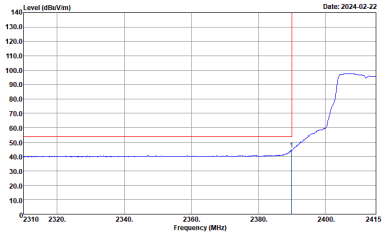
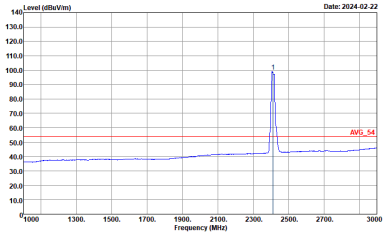
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH11 2462MHz	
	Horizontal	Fundamental
Peak		
Avg.		

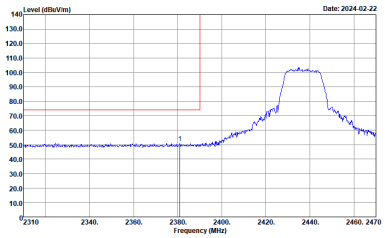
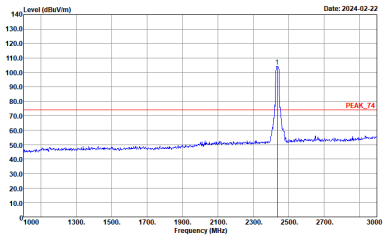
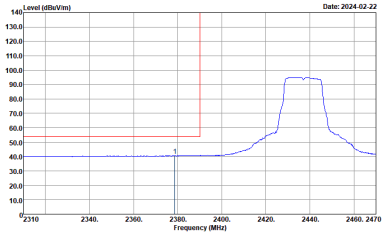
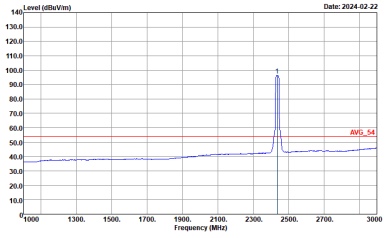
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH11 2462MHz	
	Vertical	Fundamental
Peak		
Avg.		

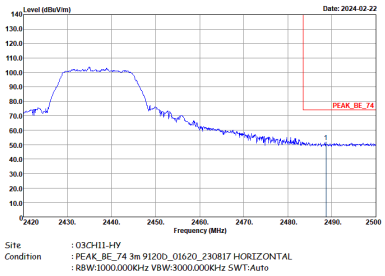
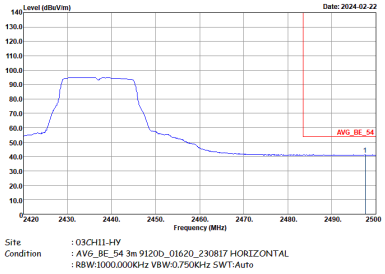
2.4GHz 2400~2483.5MHz

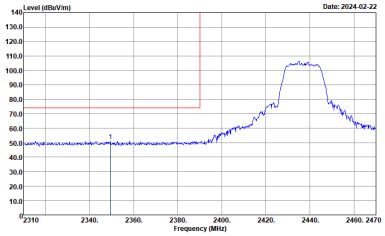
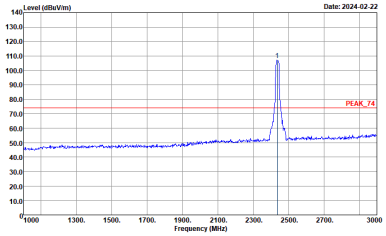
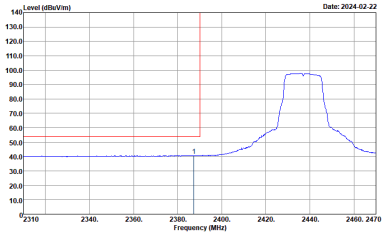
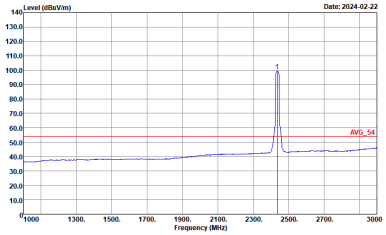
WIFI 802.11g (Band Edge @ 3m)

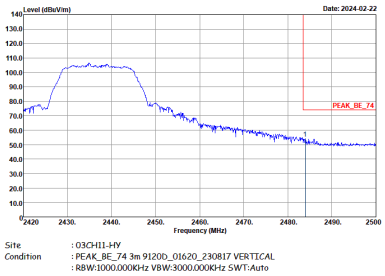
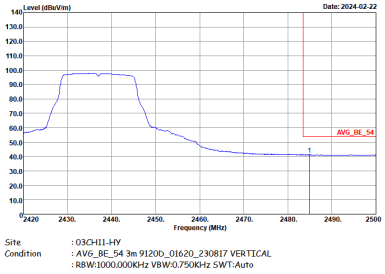
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH01 2412MHz	
	Horizontal	Fundamental
Peak		
Avg.		

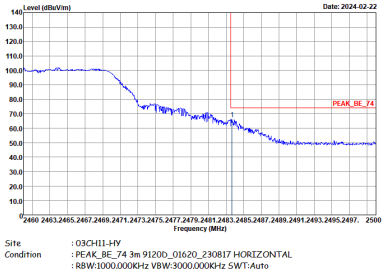
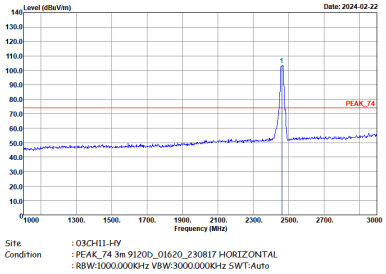
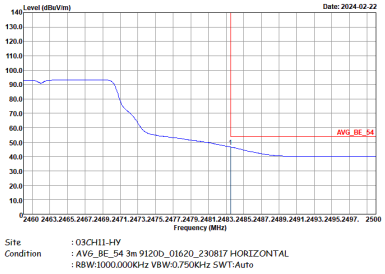
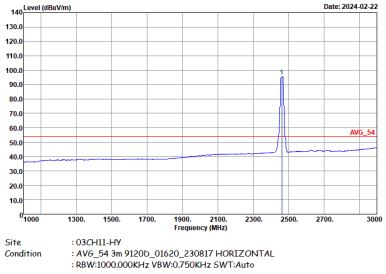
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH01 2412MHz	
	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m 9120D_01620_230817 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH11-HY Condition : PEAK_74 3m 9120D_01620_230817 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m 9120D_01620_230817 VERTICAL : RBW:1000.000KHz VBW:0.750KHz SWT:Auto	 Site : 03CH11-HY Condition : AVG_54 3m 9120D_01620_230817 VERTICAL : RBW:1000.000KHz VBW:0.750KHz SWT:Auto

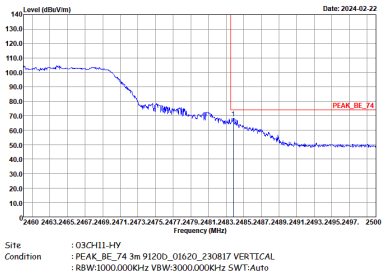
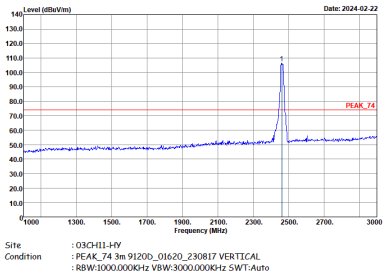
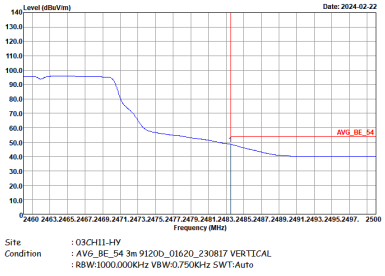
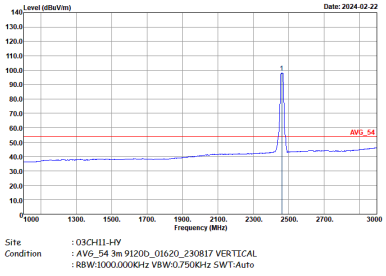
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH06 2437MHz - L	
	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m 9120D_01620_230817 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH11-HY Condition : PEAK_74 3m 9120D_01620_230817 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m 9120D_01620_230817 HORIZONTAL : RBW:1000.000KHz VBW:0.750KHz SWT:Auto	 Site : 03CH11-HY Condition : AVG_54 3m 9120D_01620_230817 HORIZONTAL : RBW:1000.000KHz VBW:0.750KHz SWT:Auto

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH06 2437MHz - R	
	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH06 2437MHz - L	
	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m 9120D_01620_230817 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH11-HY Condition : PEAK_74 3m 9120D_01620_230817 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m 9120D_01620_230817 VERTICAL : RBW:1000.000KHz VBW:0.750KHz SWT:Auto	 Site : 03CH11-HY Condition : AVG_54 3m 9120D_01620_230817 VERTICAL : RBW:1000.000KHz VBW:0.750KHz SWT:Auto

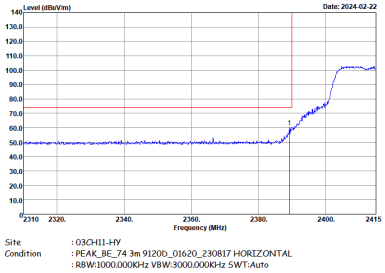
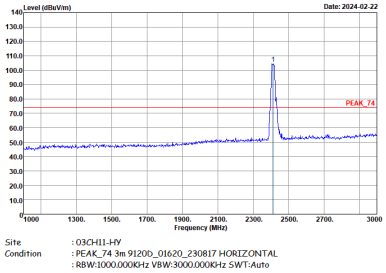
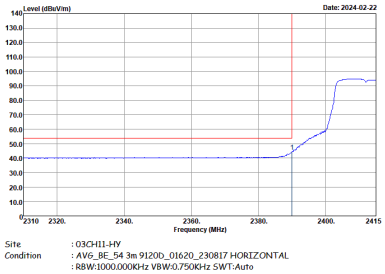
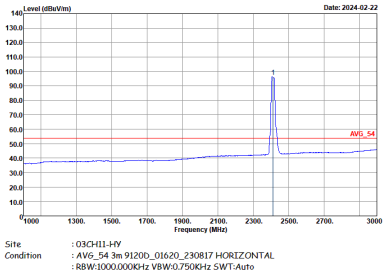
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH06 2437MHz - R	
	Vertical	Fundamental
Peak		Left Blank
Avg.		Left Blank

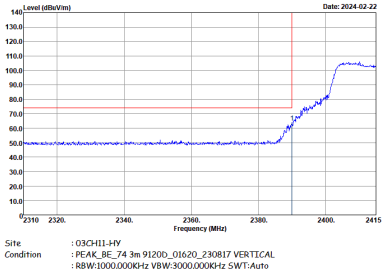
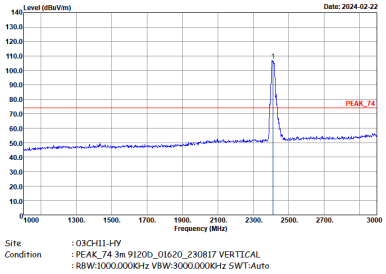
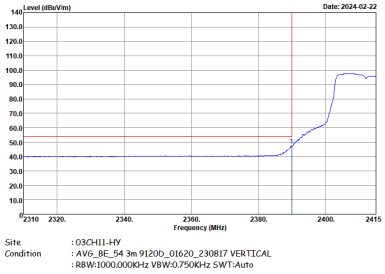
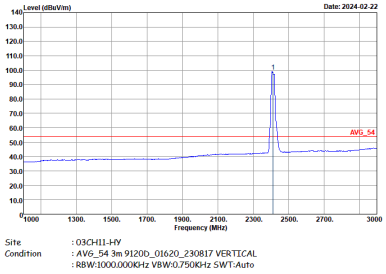
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH11 2462MHz	
	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m 9120D_01620_230817 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH11-HY Condition : PEAK_74 3m 9120D_01620_230817 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m 9120D_01620_230817 HORIZONTAL : RBW:1000.000KHz VBW:0.750KHz SWT:Auto	 Site : 03CH11-HY Condition : AVG_54 3m 9120D_01620_230817 HORIZONTAL : RBW:1000.000KHz VBW:0.750KHz SWT:Auto

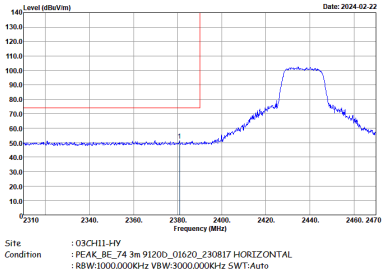
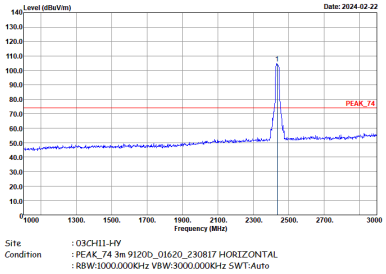
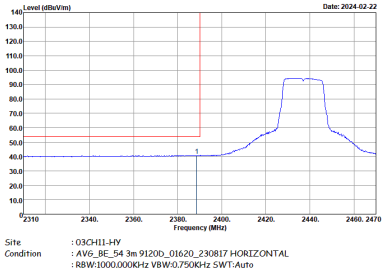
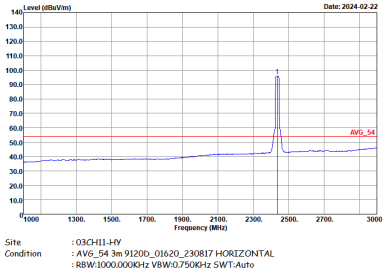
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH11 2462MHz	
	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m 9120D_01620_230817 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH11-HY Condition : PEAK_74 3m 9120D_01620_230817 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m 9120D_01620_230817 VERTICAL : RBW:1000.000KHz VBW:0.750KHz SWT:Auto	 Site : 03CH11-HY Condition : AVG_54 3m 9120D_01620_230817 VERTICAL : RBW:1000.000KHz VBW:0.750KHz SWT:Auto

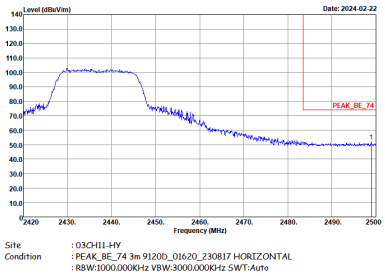
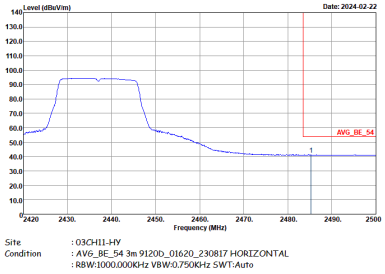
2.4GHz 2400~2483.5MHz

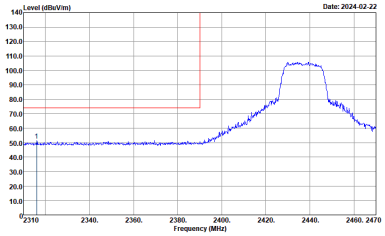
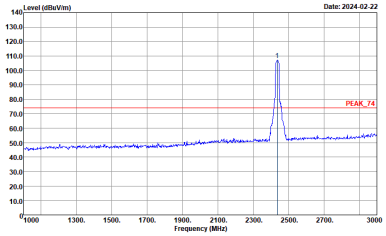
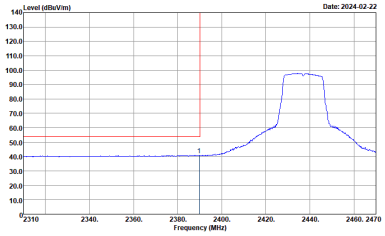
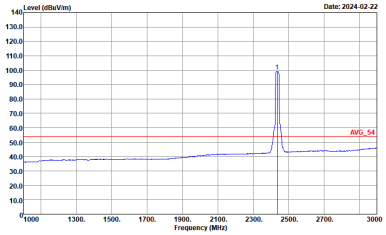
WIFI 802.11n HT20 (Band Edge @ 3m)

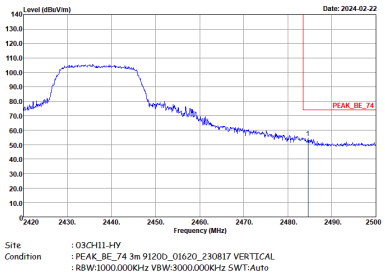
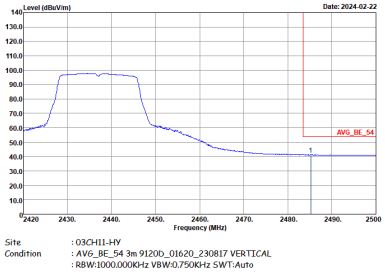
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH01 2412MHz	
	Horizontal	Fundamental
Peak		
Avg.		

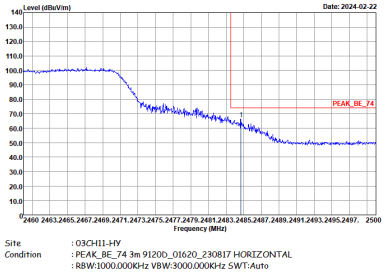
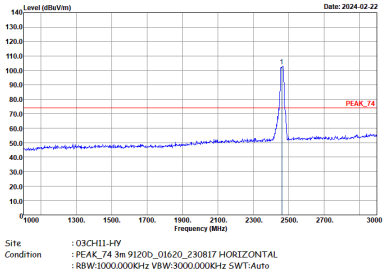
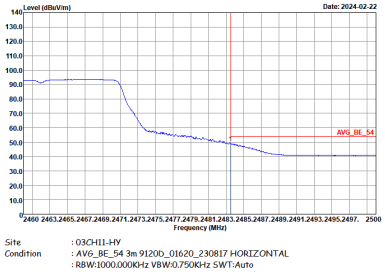
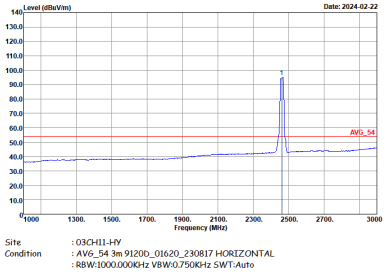
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH01 2412MHz	
	Vertical	Fundamental
Peak		
Avg.		

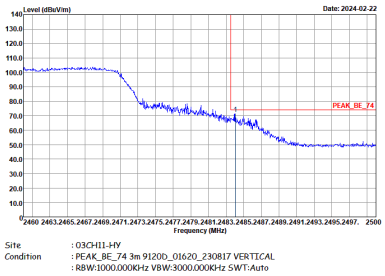
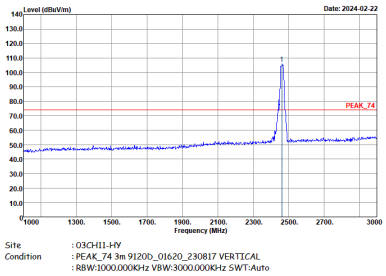
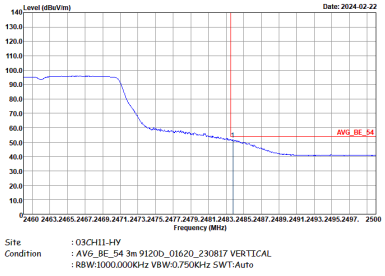
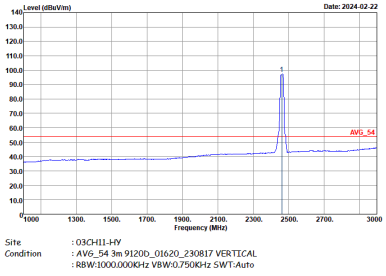
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH06 2437MHz - L	
	Horizontal	Fundamental
Peak		
Avg.		

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH06 2437MHz - R	
	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH06 2437MHz - L	
	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m 9120D_01620_230817 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH11-HY Condition : PEAK_74 3m 9120D_01620_230817 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m 9120D_01620_230817 VERTICAL : RBW:1000.000KHz VBW:0.750KHz SWT:Auto	 Site : 03CH11-HY Condition : AVG_54 3m 9120D_01620_230817 VERTICAL : RBW:1000.000KHz VBW:0.750KHz SWT:Auto

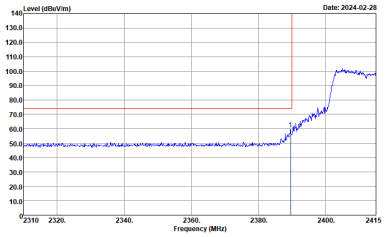
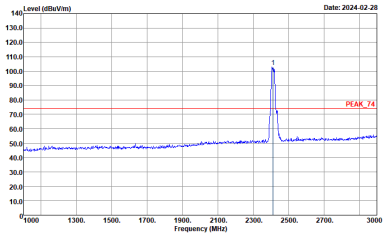
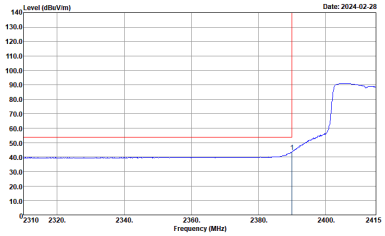
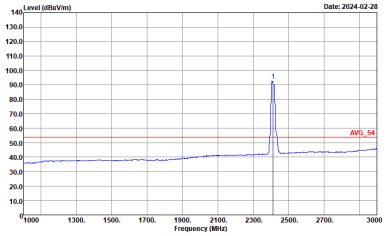
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH06 2437MHz - R	
	Vertical	Fundamental
Peak		Left Blank
Avg.		Left Blank

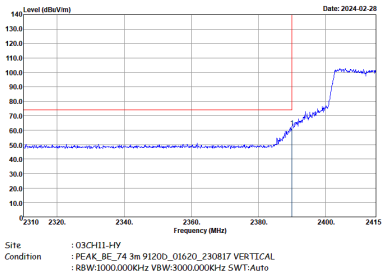
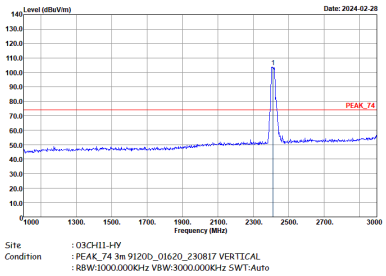
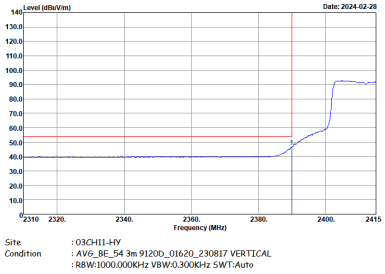
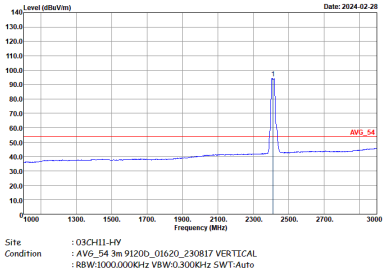
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH11 2462MHz	
	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m 9120D_01620_230817 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH11-HY Condition : PEAK_74 3m 9120D_01620_230817 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m 9120D_01620_230817 HORIZONTAL : RBW:1000.000KHz VBW:0.750KHz SWT:Auto	 Site : 03CH11-HY Condition : AVG_54 3m 9120D_01620_230817 HORIZONTAL : RBW:1000.000KHz VBW:0.750KHz SWT:Auto

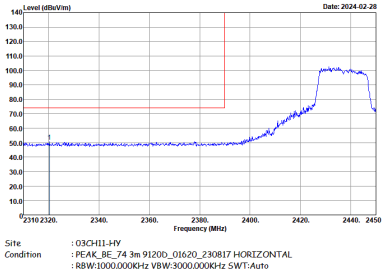
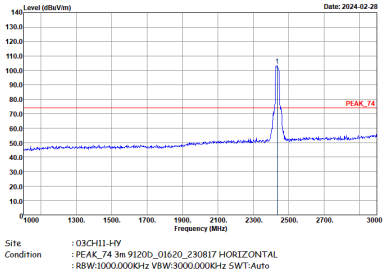
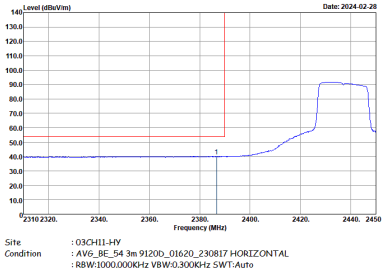
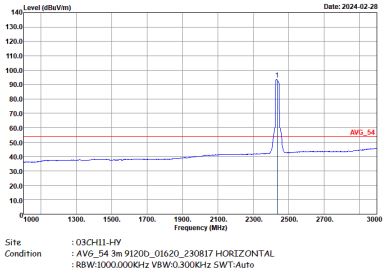
WIFI	2.4GHz 2400~2483.5MHz Fundamental @ 3m	
ANT	802.11n HT20 CH11 2462MHz	
	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m 9120D_01620_230817 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH11-HY Condition : PEAK_74 3m 9120D_01620_230817 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m 9120D_01620_230817 VERTICAL : RBW:1000.000KHz VBW:0.750KHz SWT:Auto	 Site : 03CH11-HY Condition : AVG_54 3m 9120D_01620_230817 VERTICAL : RBW:1000.000KHz VBW:0.750KHz SWT:Auto

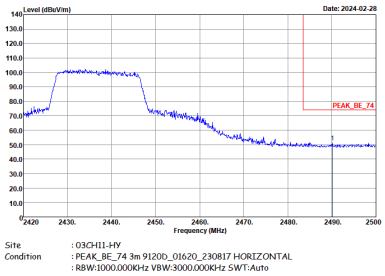
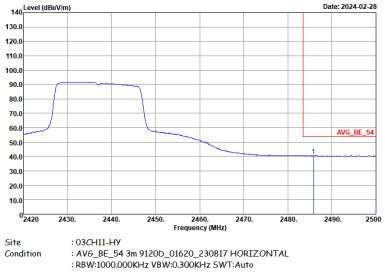
2.4GHz 2400~2483.5MHz

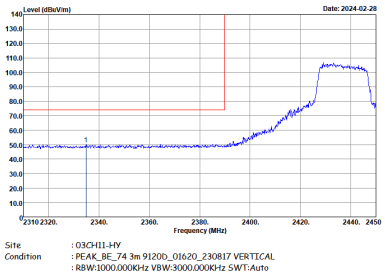
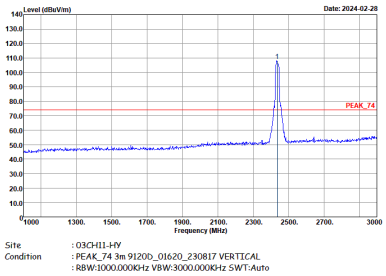
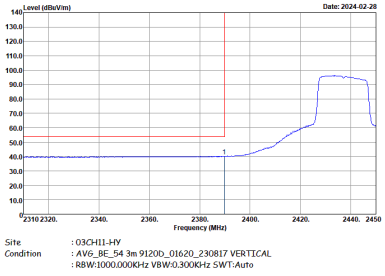
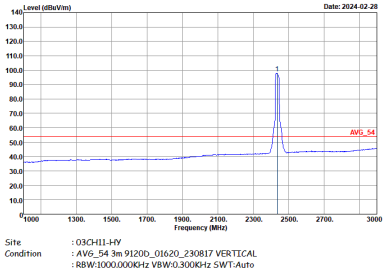
WIFI 802.11ax HE20 Full (Band Edge @ 3m)

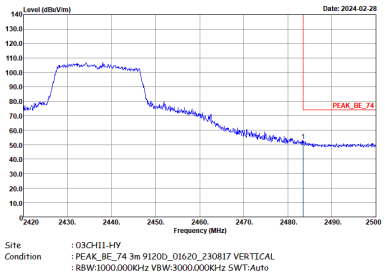
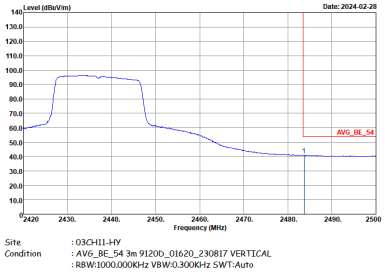
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH01 2412MHz	
	Horizontal	Fundamental
Peak		
Avg.		

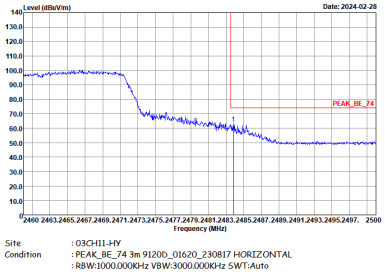
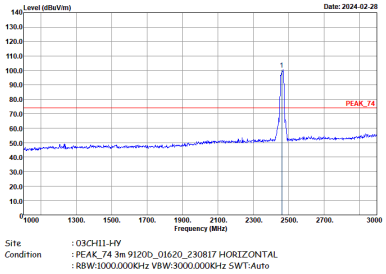
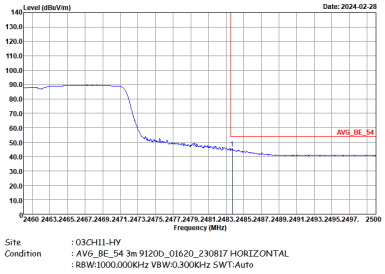
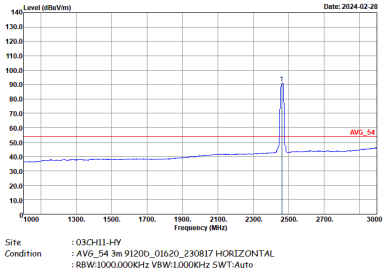
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH01 2412MHz	
	Vertical	Fundamental
Peak		
Avg.		

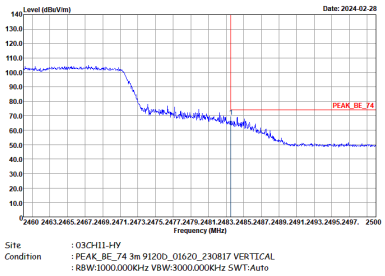
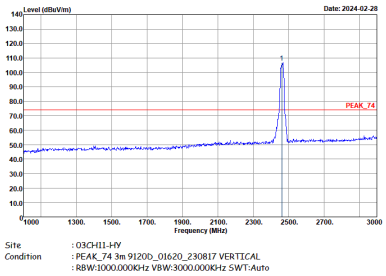
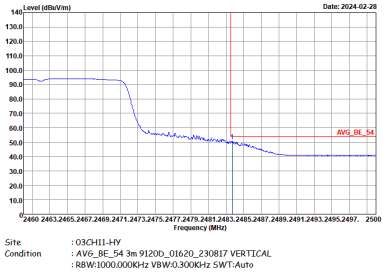
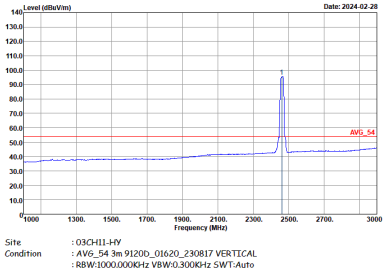
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH06 2437MHz - L	
	Horizontal	Fundamental
Peak		
Avg.		

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH06 2437MHz - R	
	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH06 2437MHz - L	
	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m 9120D_01620_230817 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH11-HY Condition : PEAK_74 3m 9120D_01620_230817 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m 9120D_01620_230817 VERTICAL : RBW:1000.000KHz VBW:0.300KHz SWT:Auto	 Site : 03CH11-HY Condition : AVG_54 3m 9120D_01620_230817 VERTICAL : RBW:1000.000KHz VBW:0.300KHz SWT:Auto

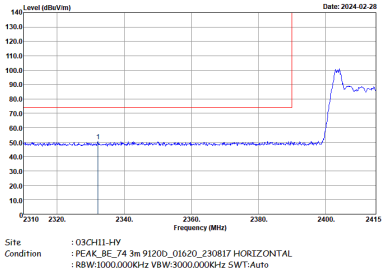
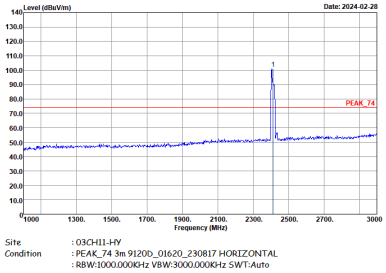
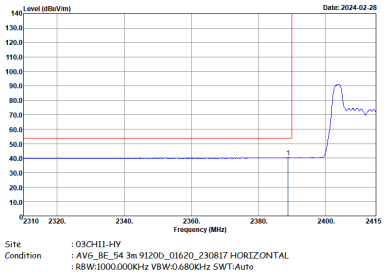
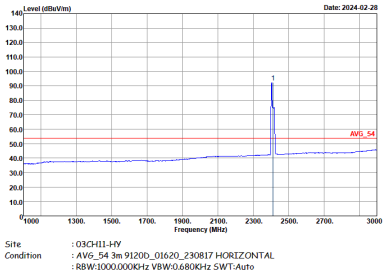
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH06 2437MHz - R	
	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

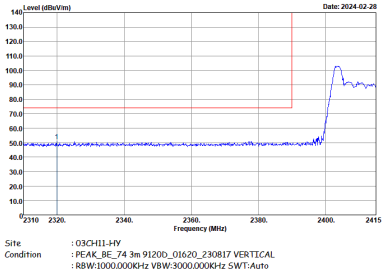
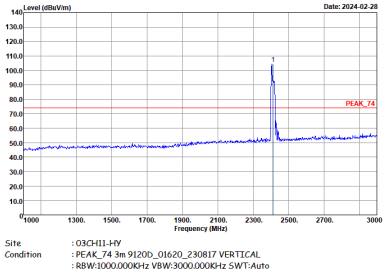
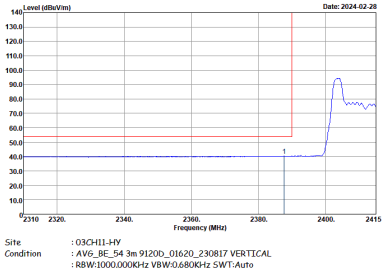
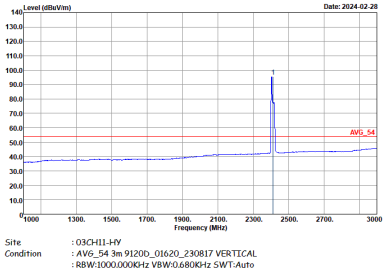
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH11 2462MHz	
	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m 9120D_01620_230817 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH11-HY Condition : PEAK_74 3m 9120D_01620_230817 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m 9120D_01620_230817 HORIZONTAL : RBW:1000.000KHz VBW:0.300KHz SWT:Auto	 Site : 03CH11-HY Condition : AVG_54 3m 9120D_01620_230817 HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto

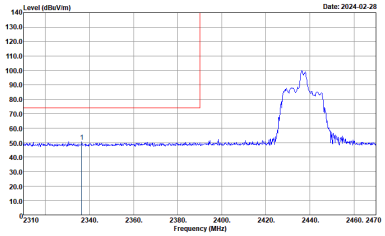
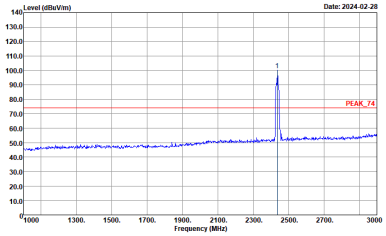
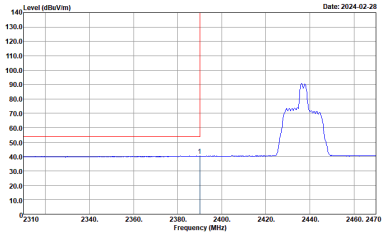
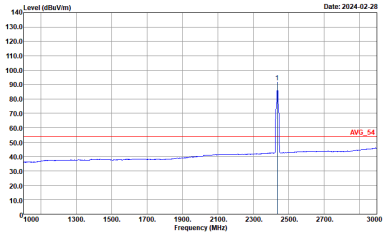
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH11 2462MHz	
	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m 9120D_01620_230817 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH11-HY Condition : PEAK_74 3m 9120D_01620_230817 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m 9120D_01620_230817 VERTICAL : RBW:1000.000KHz VBW:0.300KHz SWT:Auto	 Site : 03CH11-HY Condition : AVG_54 3m 9120D_01620_230817 VERTICAL : RBW:1000.000KHz VBW:0.300KHz SWT:Auto

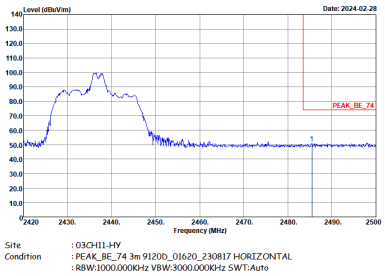
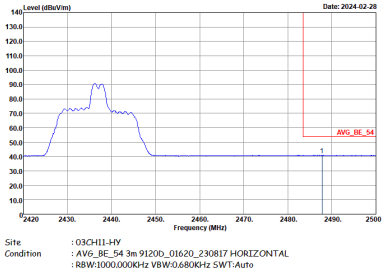
2.4GHz 2400~2483.5MHz

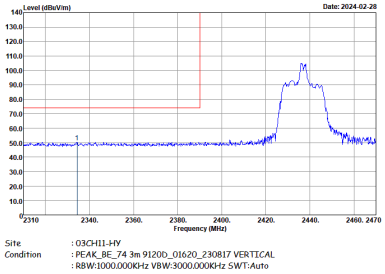
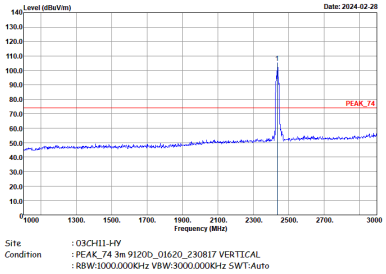
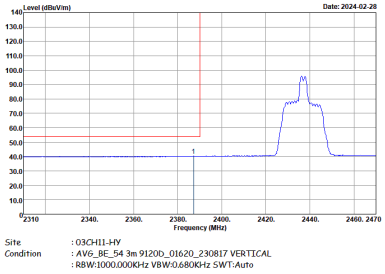
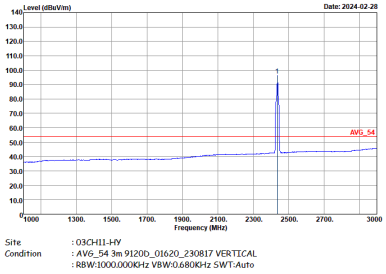
WIFI 802.11ax HE20 Partial 26 (Band Edge @ 3m)

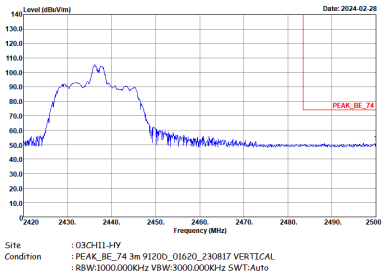
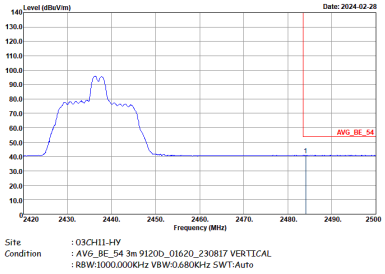
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11ax HE20 Partial 26/0 CH01 2412MHz	
	Horizontal	Fundamental
Peak		
Avg.		

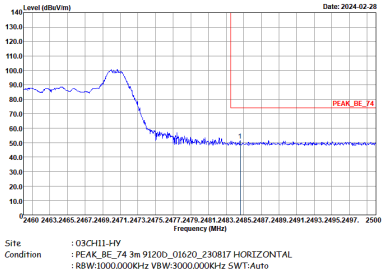
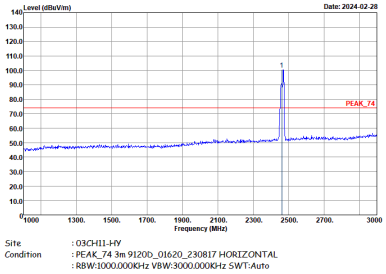
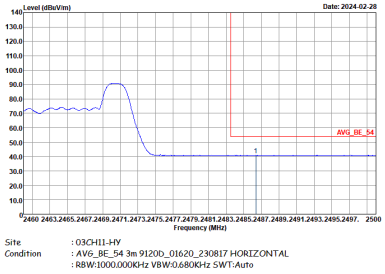
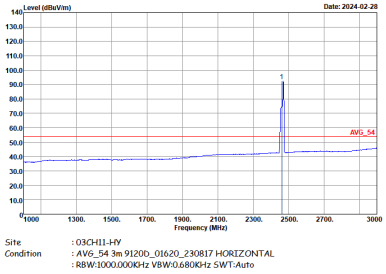
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11ax HE20 Partial 26/0 CH01 2412MHz	
	Vertical	Fundamental
Peak		
Avg.		

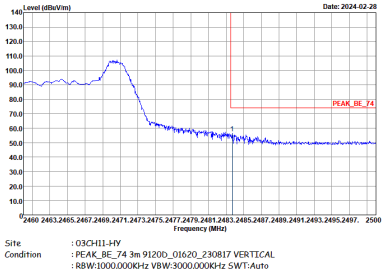
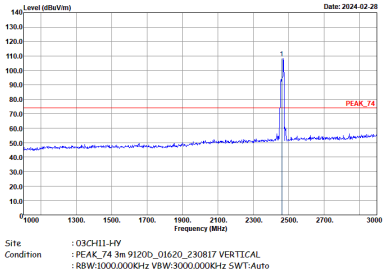
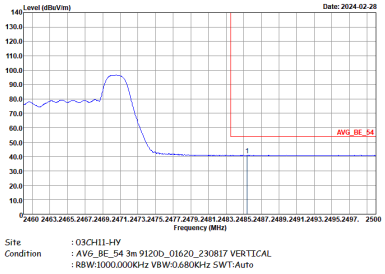
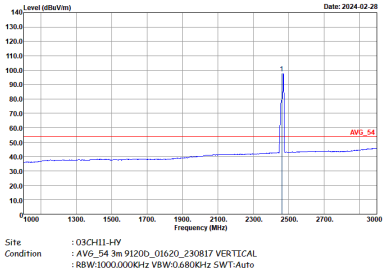
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11ax HE20 Partial 26/4 CH06 2437MHz - L	
	Horizontal	Fundamental
Peak		
Avg.		

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11ax HE20 Partial 26/4 CH06 2437MHz - R	
	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11ax HE20 Partial 26/4 CH06 2437MHz - L	
	Vertical	Fundamental
Peak		
Avg.		

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11ax HE20 Partial 26/4 CH06 2437MHz - R	
	Vertical	Fundamental
Peak		Left Blank
Avg.		Left Blank

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11ax HE20 Partial 26/8 CH11 2462MHz	
	Horizontal	Fundamental
Peak		
Avg.		

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11ax HE20 Partial 26/8 CH11 2462MHz	
	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m 9120D_01620_230817 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH11-HY Condition : PEAK_74 3m 9120D_01620_230817 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m 9120D_01620_230817 VERTICAL : RBW:1000.000KHz VBW:0.680KHz SWT:Auto	 Site : 03CH11-HY Condition : AVG_54 3m 9120D_01620_230817 VERTICAL : RBW:1000.000KHz VBW:0.680KHz SWT:Auto