



FCC RADIO TEST REPORT

FCC ID : J9C-QCNFA765
Equipment : Wi-Fi 6E BT 5.2 M.2 2230 Module
Brand Name : Qualcomm
Model Name : QCNFA765
Applicant : Qualcomm Technologies, Inc.
5775 Morehouse Drive, San Diego, CA 92121-1714
Manufacturer : Qualcomm Technologies, Inc.
5775 Morehouse Drive, San Diego, CA 92121-1714
Standard : FCC Part 15 Subpart C §15.247

The product was received on Oct. 13, 2021 and testing was performed from Nov. 06, 2021 to Nov. 23, 2021. 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 partial report apply exclusively to the tested model / sample. Without written approval from Sporton International Inc. Wensan Laboratory, the test report shall not be reproduced except in full.

Approved by: Louis Wu

Sporton International Inc. Wensan Laboratory

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



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History of this test report

Report No.	Version	Description	Issue Date
FR1O1338A	01	Initial issue of report	Nov. 30, 2021

Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.1	15.247(b)	Power Output Measurement	Pass	-
3.2	15.247(d)	Radiated Band Edges and Radiated Spurious Emission	Pass	2.40 dB under the limit at 2390.000 MHz
3.3	15.203 & 15.247(b)	Antenna Requirement	Pass	-

Note: The test plan for power and radiated spurious emission measurement are designated by manufacturer as worst case for Test Lab. measurement. Then, all test cases are performed, based on the worst power measured by Test Lab, and reported accordingly.

Declaration of Conformity:

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

Comments and Explanations:

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

Reviewed by: Sheng Kuo

Report Producer: Tina Chuang

1 General Description

1.1 Product Feature of Equipment Under Test

Bluetooth, Wi-Fi 2.4GHz 802.11b/g/n/ac/ax, Wi-Fi 5GHz 802.11a/n/ac/ax and Wi-Fi 6GHz 802.11a/ax

Product Feature	
Sample 1	EUT with Host 1
Sample 2	EUT with Host 2
Antenna Type	WLAN <Main>: PIFA Antenna <Aux.>: PIFA Antenna Bluetooth: PIFA Antenna

The product was installed into Portable Computer (Brand Name: DELL, Model Name: P157G) during test, and the host information was recorded in the following table.

Host Information	
Host 1	Host with WNC Antenna
Host 2	Host with SPEED Antenna

Antenna Information			
Antenna 1	Manufacturer	WNC	
	Antenna Type	PIFA Antenna	PIFA Antenna
	Part number	81EABJ15.G45	81EABJ15.G46
	Peak gain (dBi)	Main Antenna : WLAN (2.4G): -1.35	Aux. Antenna : WLAN (2.4G): -0.36
Antenna 2	Manufacturer	SPEED	
	Antenna Type	PIFA Antenna	PIFA Antenna
	Part number	F-0G-FS-6120-002	F-0G-FS-6120-003
	Peak gain (dBi)	Main Antenna : WLAN (2.4G): -1.35	Aux. Antenna : WLAN (2.4G): -0.36

Remark:

1. The above EUT's information was declared by manufacturer. Please refer to Comments and Explanations in report summary.
2. The output power measurement was performed with "WNC Antenna", and performed with "Speed Antenna" in radiated spurious emission test as representative.

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, 03CH15-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 DTS Meas. Guidance v05r02
- ♦ FCC KDB 662911 D01 Multiple Transmitter Output v02r01.
- ♦ ANSI C63.10-2013

Remark:

1. All test items were verified and recorded according to the standards and without any deviation during the test.
2. The TAF code is not including all the FCC KDB listed without accreditation.

2 Test Configuration of Equipment Under Test

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: radiation emission (1 GHz to the 10th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower).

2.1 Carrier Frequency and Channel

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
2400-2483.5 MHz	1	2412	8	2447
	2	2417	9	2452
	3	2422	10	2457
	4	2427	11	2462
	5	2432	12	2467
	6	2437	13	2472
	7	2442		

2.2 Test Mode

The final test modes consider the modulation and the worst data rates as shown in the table below.

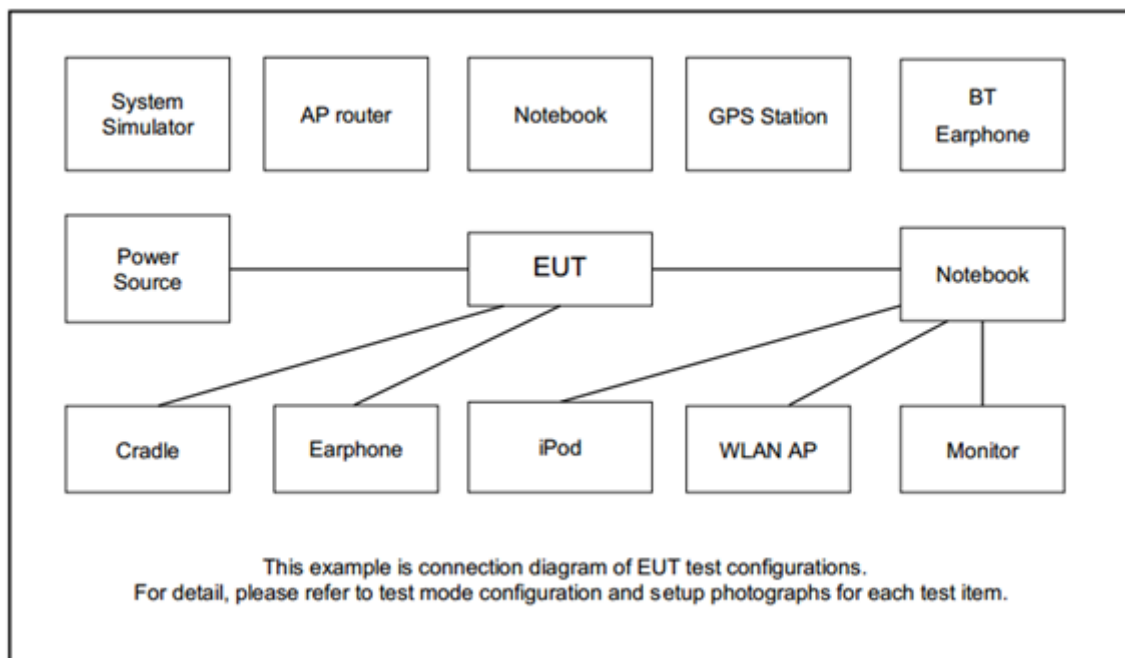
MIMO Antenna

Modulation	Data Rate
802.11b	1 Mbps
802.11g	6 Mbps
802.11n HT20	MCS0
802.11n HT40	MCS0
802.11ac VHT20	MCS0
802.11ac VHT40	MCS0
802.11ax HE20	MCS0
802.11ax HE40	MCS0

Ch. #	2400-2483.5 MHz			
	802.11b	802.11g	802.11ax HE20	802.11ax HE40
Low	-	01	01	03
Middle	06	-	06	-
High	-	11	11	09
	-	12	12	10
	-	13	13	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



2.4 Support Unit used in test configuration and system

Item	Equipment	Brand Name	Model Name	FCC ID	Data Cable	Power Cord
1.	iPod Earphone	Apple	N/A	Verification	Unshielded, 1.0 m	N/A

2.5 EUT Operation Test Setup

The RF test items, utility "QRCT 4.0.00194.0" was installed in Host 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.

3 Test Result

3.1 Output Power Measurement

3.1.1 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.

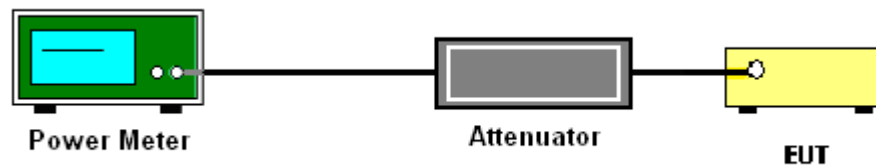
3.1.2 Measuring Instruments

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

3.1.3 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.
5. For MIMO mode, calculation method follows FCC KDB 662911 D01 Multiple Transmitter Output v02r01.

3.1.4 Test Setup



3.1.5 Test Result of Average Output Power

Please refer to Appendix A.

3.2 Radiated Band Edges and Spurious Emission Measurement

3.2.1 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

3.2.2 Measuring Instruments

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

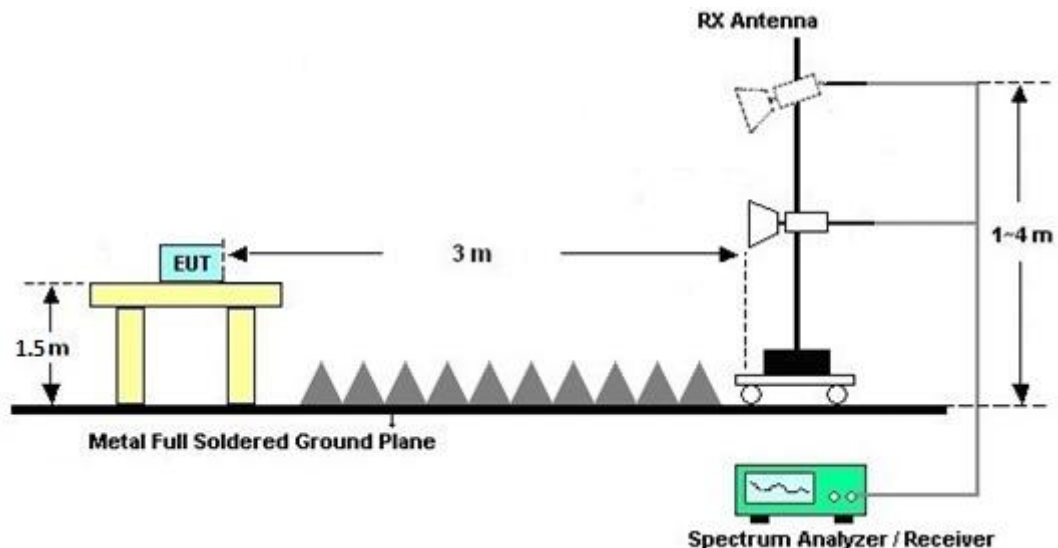
3.2.3 Test Procedures

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 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 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 “-”.

7. 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 $\geq$ RBW; Sweep = auto; Detector function = peak; Trace = max hold;
 - (3) Set RBW = 1 MHz, VBW= 3 MHz for $f \geq 1$ GHz for peak measurement.
- For average measurement:
- VBW = 10 Hz, when duty cycle is no less than 98 percent.
 - VBW $\geq 1/T$, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.

3.2.4 Test Setup

For radiated test above 1GHz



3.2.5 Test Result of Radiated Spurious at Band Edges

Please refer to Appendix B and C.

3.2.6 Duty Cycle

Please refer to Appendix D.

3.2.7 Test Result of Radiated Spurious Emission

Please refer to Appendix B and C.



3.3 Antenna Requirements

3.3.1 Standard Applicable

If directional gain of transmitting Antennas is greater than 6 dBi, the power shall be reduced by the same level in dB comparing to gain minus 6 dBi. 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.

3.3.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.

3.3.3 Antenna Gain

The antenna peak gain of EUT is less than 6 dBi. Therefore, it is not necessary to reduce maximum peak output power limit.



4 List of Measuring Equipment

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Hygrometer	Testo	608-H1	34893241	N/A	Mar. 01, 2021	Nov. 06, 2021~ Nov. 09, 2021	Feb. 28, 2022	Conducted (TH05-HY)
Power Sensor	DARE	RPR3006W	16I00054SN O12	10MHz~6GHz	Dec. 16, 2020	Nov. 06, 2021~ Nov. 09, 2021	Dec. 15, 2021	Conducted (TH05-HY)
Signal Analyzer	Rohde & Schwarz	FSV40	101565	10Hz ~ 40GHz	Nov. 13, 2020	Nov. 06, 2021~ Nov. 09, 2021	Nov. 12, 2021	Conducted (TH05-HY)
Switch Box & RF Cable	EM Electronics	EMSW18SE	SW200302	N/A	Mar. 17, 2021	Nov. 06, 2021~ Nov. 09, 2021	Mar. 16, 2022	Conducted (TH05-HY)
Horn Antenna	SCHWARZB ECK	BBHA 9120 D	9120D-0162 0	1GHz~18GHz	Oct. 25, 2021	Nov. 22, 2021~ Nov. 23, 2021	Oct. 24, 2022	Radiation (03CH15-HY)
SHF-EHF Horn Antenna	SCHWARZB ECK	BBHA 9170	BBHA91702 51	18GHz~40GHz	Dec. 02, 2020	Nov. 22, 2021~ Nov. 23, 2021	Dec. 01, 2021	Radiation (03CH15-HY)
Preamplifier	Jet-Power	JPA0118-55-3 03	1710001800 055006	1GHz~18GHz	May 06, 2021	Nov. 22, 2021~ Nov. 23, 2021	May 05, 2022	Radiation (03CH15-HY)
Preamplifier	Keysight	83017A	MY5327019 5	1GHz~26.5GHz	Aug. 19, 2021	Nov. 22, 2021~ Nov. 23, 2021	Aug. 18, 2022	Radiation (03CH15-HY)
Preamplifier	EMEC	EM18G40G	060801	18-40GHz	Jun. 22, 2021	Nov. 22, 2021~ Nov. 23, 2021	Jun. 21, 2022	Radiation (03CH15-HY)
EMI Test Receiver	Keysight	N9038A(MXE)	MY5413008 5	20MHz~8.4GHz	Oct. 21, 2020	Nov. 22, 2021~ Nov. 23, 2021	Oct. 20, 2022	Radiation (03CH15-HY)
Spectrum Analyzer	Agilent	E4446A	MY5018013 6	3Hz~44GHz	May 07, 2021	Nov. 22, 2021~ Nov. 23, 2021	May 06, 2022	Radiation (03CH15-HY)
Antenna Mast	ChainTek	MBS-520-1	N/A	1m~4m	N/A	Nov. 22, 2021~ Nov. 23, 2021	N/A	Radiation (03CH15-HY)
Turn Table	ChainTek	T-200-S-1	N/A	0~360 Degree	N/A	Nov. 22, 2021~ Nov. 23, 2021	N/A	Radiation (03CH15-HY)
Software	Audix	E3 6.2009-8-24(k 5)	RK-000451	N/A	N/A	Nov. 22, 2021~ Nov. 23, 2021	N/A	Radiation (03CH15-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104, 102E	MY36980/4, MY9838/4P E,508405/2E	30MHz~18G	Nov. 15, 2021	Nov. 22, 2021~ Nov. 23, 2021	Nov. 14, 2022	Radiation (03CH15-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	505134/2	30MHz-40GHz	Feb. 22, 2021	Nov. 22, 2021~ Nov. 23, 2021	Feb. 21, 2022	Radiation (03CH15-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	800740/2	30MHz-40GHz	Feb. 22, 2021	Nov. 22, 2021~ Nov. 23, 2021	Feb. 21, 2022	Radiation (03CH15-HY)
Filter	Wainwright	WLJ4-1000-1530 -6000-40ST	SN4	1.53GHz Low Pass Filter	Jul. 02, 2021	Nov. 22, 2021~ Nov. 23, 2021	Jul. 01, 2022	Radiation (03CH15-HY)
Filter	Wainwright	WHKX12-2700 -3000-18000-6 0ST	SN4	3GHz High Pass Filter	Sep. 15, 2021	Nov. 22, 2021~ Nov. 23, 2021	Sep. 14, 2022	Radiation (03CH15-HY)



5 Uncertainty of Evaluation

Uncertainty of Radiated Emission Measurement (1000 MHz ~ 18000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.3 dB
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Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.6 dB
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Appendix A. Test Result of Conducted Test Items

Test Engineer:	Mina Liu	Temperature:	21~25	°C
Test Date:	2021/11/06~2021/11/09	Relative Humidity:	51~54	%

Remark: For Conducted Test Items, Ant. 1 means Chain 0 (Aux.) and Ant. 2 means Chain 1 (Main).

TEST RESULTS DATA
Average Output Power

2.4GHz Band MIMO																
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	Ant2	SUM	Ant1	Ant2	Ant1	Ant2	Ant1	Ant2	Ant1	Ant2	
11b	1Mbps	2	1	2412	16.60	15.80	19.23	30.00		-0.36		18.87		36.00		Pass
11b	1Mbps	2	6	2437	16.40	15.70	19.07	30.00		-0.36		18.71		36.00		Pass
11b	1Mbps	2	11	2462	16.10	15.60	18.87	30.00		-0.36		18.51		36.00		Pass
11b	1Mbps	2	12	2467	16.00	15.70	18.86	30.00		-0.36		18.50		36.00		Pass
11b	1Mbps	2	13	2472	15.00	14.80	17.91	30.00		-0.36		17.55		36.00		Pass
11g	6Mbps	2	1	2412	16.50	15.70	19.13	30.00		-0.36		18.77		36.00		Pass
11g	6Mbps	2	6	2437	16.30	15.70	19.02	30.00		-0.36		18.66		36.00		Pass
11g	6Mbps	2	11	2462	15.90	15.50	18.71	30.00		-0.36		18.35		36.00		Pass
11g	6Mbps	2	12	2467	14.80	14.60	17.71	30.00		-0.36		17.35		36.00		Pass
11g	6Mbps	2	13	2472	3.40	2.60	6.03	30.00		-0.36		5.67		36.00		Pass
HT20	MCS0	2	1	2412	16.20	15.50	18.87	30.00		-0.36		18.51		36.00		Pass
HT20	MCS0	2	6	2437	16.40	15.50	18.98	30.00		-0.36		18.62		36.00		Pass
HT20	MCS0	2	11	2462	14.80	14.60	17.71	30.00		-0.36		17.35		36.00		Pass
HT20	MCS0	2	12	2467	13.70	13.50	16.61	30.00		-0.36		16.25		36.00		Pass
HT20	MCS0	2	13	2472	2.20	2.10	5.16	30.00		-0.36		4.80		36.00		Pass
HT40	MCS0	2	3	2422	15.00	14.10	17.58	30.00		-0.36		17.22		36.00		Pass
HT40	MCS0	2	6	2437	15.70	14.50	18.15	30.00		-0.36		17.79		36.00		Pass
HT40	MCS0	2	9	2452	14.70	13.50	17.15	30.00		-0.36		16.79		36.00		Pass
HT40	MCS0	2	10	2457	13.40	12.50	15.98	30.00		-0.36		15.62		36.00		Pass
HT40	MCS0	2	11	2462	4.70	4.10	7.42	30.00		-0.36		7.06		36.00		Pass
VHT20	MCS0	2	1	2412	16.20	15.50	18.87	30.00		-0.36		18.51		36.00		Pass
VHT20	MCS0	2	6	2437	16.40	15.50	18.98	30.00		-0.36		18.62		36.00		Pass
VHT20	MCS0	2	11	2462	14.80	14.60	17.71	30.00		-0.36		17.35		36.00		Pass
VHT20	MCS0	2	12	2467	13.70	13.50	16.61	30.00		-0.36		16.25		36.00		Pass
VHT20	MCS0	2	13	2472	2.20	2.10	5.16	30.00		-0.36		4.80		36.00		Pass
VHT40	MCS0	2	3	2422	15.00	14.10	17.58	30.00		-0.36		17.22		36.00		Pass
VHT40	MCS0	2	6	2437	15.70	14.50	18.15	30.00		-0.36		17.79		36.00		Pass
VHT40	MCS0	2	9	2452	14.70	13.50	17.15	30.00		-0.36		16.79		36.00		Pass
VHT40	MCS0	2	10	2457	13.40	12.50	15.98	30.00		-0.36		15.62		36.00		Pass
VHT40	MCS0	2	11	2462	4.70	4.10	7.42	30.00		-0.36		7.06		36.00		Pass

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

TEST RESULTS DATA
Average Output Power

2.4GHz Band MIMO																	
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	Ant2	SUM	Ant1	Ant2	Ant1	Ant2	Ant1	Ant2	Ant1	Ant2	
HE20	MCS0	2	1	2412	Full	16.30	15.60	18.97	30.00		-0.36		18.61		36.00		Pass
HE20	MCS0	2	1	2412	26/0	16.10	15.30	18.73	30.00		-0.36		18.37		36.00		Pass
HE20	MCS0	2	1	2412	242/61	15.20	14.40	17.83	30.00		-0.36		17.47		36.00		Pass
HE20	MCS0	2	6	2437	Full	16.50	15.60	19.08	30.00		-0.36		18.72		36.00		Pass
HE20	MCS0	2	6	2437	26/4	16.40	15.60	19.03	30.00		-0.36		18.67		36.00		Pass
HE20	MCS0	2	11	2462	Full	14.90	14.70	17.81	30.00		-0.36		17.45		36.00		Pass
HE20	MCS0	2	11	2462	26/8	14.60	14.20	17.41	30.00		-0.36		17.05		36.00		Pass
HE20	MCS0	2	11	2462	242/61	12.30	12.10	15.21	30.00		-0.36		14.85		36.00		Pass
HE20	MCS0	2	12	2467	Full	13.80	13.60	16.71	30.00		-0.36		16.35		36.00		Pass
HE20	MCS0	2	12	2467	26/8	11.60	11.20	14.41	30.00		-0.36		14.05		36.00		Pass
HE20	MCS0	2	12	2467	242/61	11.40	10.60	14.03	30.00		-0.36		13.67		36.00		Pass
HE20	MCS0	2	13	2472	Full	2.30	2.10	5.21	30.00		-0.36		4.85		36.00		Pass
HE20	MCS0	2	13	2472	26/8	-9.50	-9.80	-6.64	30.00		-0.36		-7.00		36.00		Pass
HE20	MCS0	2	13	2472	242/61	-5.70	-6.20	-2.93	30.00		-0.36		-3.29		36.00		Pass
HE40	MCS0	2	3	2422	Full	15.10	14.20	17.68	30.00		-0.36		17.32		36.00		Pass
HE40	MCS0	2	3	2422	484/65	10.20	9.60	12.92	30.00		-0.36		12.56		36.00		Pass
HE40	MCS0	2	6	2437	Full	15.80	14.60	18.25	30.00		-0.36		17.89		36.00		Pass
HE40	MCS0	2	9	2452	Full	14.80	13.60	17.25	30.00		-0.36		16.89		36.00		Pass
HE40	MCS0	2	9	2452	484/65	12.00	11.40	14.72	30.00		-0.36		14.36		36.00		Pass
HE40	MCS0	2	10	2457	Full	13.50	12.60	16.08	30.00		-0.36		15.72		36.00		Pass
HE40	MCS0	2	10	2457	484/65	11.20	10.50	13.87	30.00		-0.36		13.51		36.00		Pass
HE40	MCS0	2	11	2462	Full	4.80	4.20	7.52	30.00		-0.36		7.16		36.00		Pass
HE40	MCS0	2	11	2462	484/65	-4.80	-4.60	-1.69	30.00		-0.36		-2.05		36.00		Pass

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



Appendix B. Radiated Spurious Emission

Test Engineer :	Leo Lee, Mancy Chou and Bigshow Wang	Temperature :	22.1 ~ 23.6°C
		Relative Humidity :	55.0 ~ 65.0%

Remark: For Radiated Spurious Emission Test Items, Ant. 1 means Chain 0 (Aux.) and Ant. 2 means Chain 1 (Main).

2.4GHz 2400~2483.5MHz

WIFI 802.11b (Harmonic @ 3m)

WIFI Ant.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
1+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11b CH 06 2437MHz		4874	39.45	-34.55	74	56.85	31.3	10.2	58.9	-	-	P	H
		7311	44.38	-29.62	74	54.07	36.32	12.42	58.43	-	-	P	H
		10935	51.68	-22.32	74	57.36	40.47	14.72	60.87	-	-	P	H
		10935	41.67	-12.33	54	47.35	40.47	14.72	60.87	-	-	A	H
		14475	51.38	-22.62	74	56.38	41.33	16.85	63.18	-	-	P	H
		14475	41.36	-12.64	54	46.36	41.33	16.85	63.18	-	-	A	H
		18000	59.74	-14.26	74	49.63	48.4	18.95	57.24	-	-	P	H
		18000	49.73	-4.27	54	39.62	48.4	18.95	57.24	-	-	A	H
													H
		4874	40.32	-33.68	74	57.72	31.3	10.2	58.9	-	-	P	V
		7311	44.24	-29.76	74	53.93	36.32	12.42	58.43	-	-	P	V
		10890	51.67	-22.33	74	57.47	40.38	14.7	60.88	-	-	P	V
		10890	41.59	-12.41	54	47.39	40.38	14.7	60.88	-	-	A	V
		14500	50.99	-23.01	74	55.9	41.4	16.86	63.17	-	-	P	V
		14500	44.98	-9.02	54	49.89	41.4	16.86	63.17	-	-	A	V
		17985	59.7	-14.3	74	49.93	48.1	18.94	57.27	-	-	P	V
		17985	49.68	-4.32	54	39.91	48.1	18.94	57.27	-	-	A	V
													V
													V

Remark

- No other spurious found.
- All results are PASS against Peak and Average limit line.
- The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only.
- The emission level close to 18GHz is checked that the average emission level is noise floor only.



WIFI 802.11g (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (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		2389.8	55.32	-18.68	74	52.08	27.82	16.56	41.14	352	285	P	V
		2390	44.3	-9.7	54	41.06	27.82	16.56	41.14	352	285	A	V
	*	2412	106.49	-	-	103.29	27.75	16.6	41.15	352	285	P	V
	*	2412	98.51	-	-	95.31	27.75	16.6	41.15	352	285	A	V
													V
													V
802.11g CH 11 2462MHz	*	2462	105.9	-	-	102.78	27.6	16.68	41.16	100	357	P	V
	*	2462	99.06	-	-	95.94	27.6	16.68	41.16	100	357	A	V
		2483.6	55.4	-18.6	74	52.26	27.6	16.71	41.17	100	357	P	V
		2483.52	44.4	-9.6	54	41.26	27.6	16.71	41.17	100	357	A	V
													V
													V
802.11g CH 12 2467MHz	*	2467	105.38	-	-	102.26	27.6	16.68	41.16	100	349	P	V
	*	2467	97.88	-	-	94.76	27.6	16.68	41.16	100	349	A	V
		2483.6	58.43	-15.57	74	55.29	27.6	16.71	41.17	100	349	P	V
		2483.52	46.49	-7.51	54	43.35	27.6	16.71	41.17	100	349	A	V
													V
													V
802.11g CH 13 2472MHz	*	2472	95.79	-	-	92.66	27.6	16.69	41.16	100	325	P	V
	*	2472	88.16	-	-	85.03	27.6	16.69	41.16	100	325	A	V
		2483.56	58.8	-15.2	74	55.66	27.6	16.71	41.17	100	325	P	V
		2483.52	49.01	-4.99	54	45.87	27.6	16.71	41.17	100	325	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 Full (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE20 Full CH 01 2412MHz		2390	62.63	-11.37	74	59.39	27.82	16.56	41.14	355	76	P	V
		2390	51.6	-2.4	54	48.36	27.82	16.56	41.14	355	76	A	V
	*	2412	110.57	-	-	107.37	27.75	16.6	41.15	355	76	P	V
	*	2412	99.41	-	-	96.21	27.75	16.6	41.15	355	76	A	V
													V
													V
802.11ax HE20 Full CH 11 2462MHz	*	2462	105.44	-	-	102.32	27.6	16.68	41.16	214	145	P	V
	*	2462	96.45	-	-	93.33	27.6	16.68	41.16	214	145	A	V
		2484.96	60.69	-13.31	74	57.55	27.6	16.71	41.17	214	145	P	V
		2483.56	49.54	-4.46	54	46.4	27.6	16.71	41.17	214	145	A	V
													V
													V
802.11ax HE20 Full CH 12 2467MHz	*	2467	106.95	-	-	103.83	27.6	16.68	41.16	105	1	P	V
	*	2467	98.46	-	-	95.34	27.6	16.68	41.16	105	1	A	V
		2483.92	63.1	-10.9	74	59.96	27.6	16.71	41.17	105	1	P	V
		2484.32	51.36	-2.64	54	48.22	27.6	16.71	41.17	105	1	A	V
													V
													V
802.11ax HE20 Full CH 13 2472MHz	*	2472	96.79	-	-	93.66	27.6	16.69	41.16	100	354	P	V
	*	2472	87.92	-	-	84.79	27.6	16.69	41.16	100	354	A	V
		2483.52	64.49	-9.51	74	61.35	27.6	16.71	41.17	100	354	P	V
		2483.52	50.18	-3.82	54	47.04	27.6	16.71	41.17	100	354	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 (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (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		2389.97	68.21	-5.79	74	64.97	27.82	16.56	41.14	357	74	P	V
		2389.97	46.71	-7.29	54	43.47	27.82	16.56	41.14	357	74	A	V
	*	2412	115.22	-	-	112.02	27.75	16.6	41.15	357	74	P	V
	*	2412	107.42	-	-	104.22	27.75	16.6	41.15	357	74	A	V
													V
													V
802.11ax HE20 Partial 26/8 CH 11 2462MHz	*	2462	107.13	-	-	104.01	27.6	16.68	41.16	100	325	P	V
	*	2462	99.66	-	-	96.54	27.6	16.68	41.16	100	325	A	V
		2483.6	66.74	-7.26	74	63.6	27.6	16.71	41.17	100	325	P	V
		2483.5	43.87	-10.13	54	40.73	27.6	16.71	41.17	100	325	A	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (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 12 2467MHz	*	2467	112.69	-	-	109.57	27.6	16.68	41.16	100	357	P	V
	*	2467	103.95	-	-	100.83	27.6	16.68	41.16	100	357	A	V
		2483.5	62.59	-11.41	74	59.45	27.6	16.71	41.17	100	357	P	V
		2483.5	44.2	-9.8	54	41.06	27.6	16.71	41.17	100	357	A	V
													V
													V
802.11ax HE20 Partial 26/8 CH 13 2472MHz	*	2472	93.55	-	-	90.42	27.6	16.69	41.16	100	357	P	V
	*	2472	84.08	-	-	80.95	27.6	16.69	41.16	100	357	A	V
		2483.5	67.02	-6.98	74	63.88	27.6	16.71	41.17	100	357	P	V
		2483.5	47.48	-6.52	54	44.34	27.6	16.71	41.17	100	357	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. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (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 26/4 CH 06 2437MHz		4874	43.23	-30.77	74	60.63	31.3	10.2	58.9	-	-	P	H
		7311	45.76	-28.24	74	55.45	36.32	12.42	58.43	-	-	P	H
		10935	52.57	-21.43	74	58.25	40.47	14.72	60.87	-	-	P	H
		10935	42.61	-11.39	54	48.29	40.47	14.72	60.87	-	-	A	H
		14500	52.76	-21.24	74	57.67	41.4	16.86	63.17	-	-	P	H
		14505	42.78	-11.22	54	47.68	41.4	16.87	63.17	-	-	A	H
		18000	60.27	-13.73	74	50.16	48.4	18.95	57.24	-	-	P	H
		18000	50.19	-3.81	54	40.08	48.4	18.95	57.24	-	-	A	H
													H
													H
													H
													H
		4874	43.06	-30.94	74	60.46	31.3	10.2	58.9	-	-	P	V
		7311	47.86	-26.14	74	57.55	36.32	12.42	58.43	-	-	P	V
		10830	52.89	-21.11	74	58.84	40.26	14.67	60.88	-	-	P	V
		10830	42.87	-11.13	54	48.82	40.26	14.67	60.88	-	-	A	V
		14475	52.32	-21.68	74	57.32	41.33	16.85	63.18	-	-	P	V
		14475	42.31	-11.69	54	47.31	41.33	16.85	63.18	-	-	A	V
		17985	59.93	-14.07	74	50.16	48.1	18.94	57.27	-	-	P	V
		17985	49.92	-4.08	54	40.15	48.1	18.94	57.27	-	-	A	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.												
	4. The emission level close to 18GHz is checked that the average emission level is noise floor only.												



2.4GHz 2400~2483.5MHz

WIFI 802.11ax HE20 Partial 242 (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (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		2389.86	71.11	-2.89	74	67.87	27.82	16.56	41.14	100	358	P	V
HE20		2389.97	50.64	-3.36	54	47.4	27.82	16.56	41.14	100	358	A	V
Partial	*	2412	106.66	-	-	103.46	27.75	16.6	41.15	100	358	P	V
242/61	*	2412	98.16	-	-	94.96	27.75	16.6	41.15	100	358	A	V
CH 01													V
2412MHz													V
802.11ax	*	2462	105.84	-	-	102.72	27.6	16.68	41.16	100	354	P	V
HE20	*	2462	96.72	-	-	93.6	27.6	16.68	41.16	100	354	A	V
Partial		2484.9	62.55	-11.45	74	59.41	27.6	16.71	41.17	100	354	P	V
242/61		2483.5	46.25	-7.75	54	43.11	27.6	16.71	41.17	100	354	A	V
CH 11													V
2462MHz													V
802.11ax	*	2467	105.33	-	-	102.21	27.6	16.68	41.16	100	359	P	V
HE20	*	2467	95.11	-	-	91.99	27.6	16.68	41.16	100	359	A	V
Partial		2483.55	59.22	-14.78	74	56.08	27.6	16.71	41.17	100	359	P	V
242/61		2483.8	45.81	-8.19	54	42.67	27.6	16.71	41.17	100	359	A	V
CH 12													V
2467MHz													V
802.11ax	*	2472	92.48	-	-	89.35	27.6	16.69	41.16	100	357	P	V
HE20	*	2472	80.57	-	-	77.44	27.6	16.69	41.16	100	357	A	V
Partial		2483.65	62.83	-11.17	74	59.69	27.6	16.71	41.17	100	357	P	V
242/61		2483.5	43.3	-10.7	54	40.16	27.6	16.71	41.17	100	357	A	V
CH 13													V
2472MHz													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 HE40 Full (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE40 Full CH 03 2422MHz		2379.28	61.22	-12.78	74	57.97	27.84	16.55	41.14	354	77	P	V
		2389.84	50.56	-3.44	54	47.32	27.82	16.56	41.14	354	77	A	V
	*	2422	103.59	-	-	100.42	27.71	16.61	41.15	354	77	P	V
	*	2422	94.68	-	-	91.51	27.71	16.61	41.15	354	77	A	V
		2486.41	50.67	-23.33	74	47.53	27.6	16.71	41.17	354	77	P	V
		2483.53	39.42	-14.58	54	36.28	27.6	16.71	41.17	354	77	A	V
802.11ax HE40 Full CH 09 2452MHz		2388.56	50.84	-23.16	74	47.6	27.82	16.56	41.14	332	80	P	V
		2390	39.12	-14.88	54	35.88	27.82	16.56	41.14	332	80	A	V
	*	2452	104.52	-	-	101.42	27.6	16.66	41.16	332	80	P	V
	*	2452	94.87	-	-	91.77	27.6	16.66	41.16	332	80	A	V
		2483.62	58.88	-15.12	74	55.74	27.6	16.71	41.17	332	80	P	V
		2483.62	48.36	-5.64	54	45.22	27.6	16.71	41.17	332	80	A	V
802.11ax HE40 Full CH 10 2457MHz		2358.96	50.52	-23.48	74	47.26	27.88	16.51	41.13	357	87	P	V
		2379.92	39.2	-14.8	54	35.95	27.84	16.55	41.14	357	87	A	V
	*	2457	102.46	-	-	99.35	27.6	16.67	41.16	357	87	P	V
	*	2457	93.36	-	-	90.25	27.6	16.67	41.16	357	87	A	V
		2490.01	59.61	-14.39	74	56.46	27.6	16.72	41.17	357	87	P	V
		2488.39	48.25	-5.75	54	45.1	27.6	16.72	41.17	357	87	A	V
802.11ax HE40 Full CH 11 2462MHz		2340.88	49.31	-24.69	74	46.04	27.92	16.48	41.13	100	75	P	V
		2389.04	37.7	-16.3	54	34.46	27.82	16.56	41.14	100	75	A	V
	*	2462	94.86	-	-	91.74	27.6	16.68	41.16	100	75	P	V
	*	2462	86.66	-	-	83.54	27.6	16.68	41.16	100	75	A	V
		2483.53	61.21	-12.79	74	58.07	27.6	16.71	41.17	100	75	P	V
		2483.53	48.55	-5.45	54	45.41	27.6	16.71	41.17	100	75	A	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 HE40 Partial 484 (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (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		2389.84	56.26	-17.74	74	53.02	27.82	16.56	41.14	353	81	P	V
HE40		2390	41.24	-12.76	54	38	27.82	16.56	41.14	353	81	A	V
Partial	*	2422	98.32	-	-	95.15	27.71	16.61	41.15	353	81	P	V
484/65	*	2422	89.12	-	-	85.95	27.71	16.61	41.15	353	81	A	V
CH 03		2490.28	49.82	-24.18	74	46.67	27.6	16.72	41.17	353	81	P	V
2422MHz		2494.78	37.86	-16.14	54	34.7	27.6	16.73	41.17	353	81	A	V
802.11ax		2389.84	51.35	-22.65	74	48.11	27.82	16.56	41.14	100	355	P	V
HE40		2387.92	39.71	-14.29	54	36.47	27.82	16.56	41.14	100	355	A	V
Partial	*	2452	101.81	-	-	98.71	27.6	16.66	41.16	100	355	P	V
484/65	*	2452	93.21	-	-	90.11	27.6	16.66	41.16	100	355	A	V
CH 09		2488.66	59.6	-14.4	74	56.45	27.6	16.72	41.17	100	355	P	V
2452MHz		2483.53	47.39	-6.61	54	44.25	27.6	16.71	41.17	100	355	A	V
802.11ax		2367.28	50.34	-23.66	74	47.08	27.87	16.53	41.14	152	220	P	V
HE40		2390	39.09	-14.91	54	35.85	27.82	16.56	41.14	152	220	A	V
Partial	*	2457	100.9	-	-	97.79	27.6	16.67	41.16	152	220	P	V
484/65	*	2457	90.39	-	-	87.28	27.6	16.67	41.16	152	220	A	V
CH 10		2483.53	61.84	-12.16	74	58.7	27.6	16.71	41.17	152	220	P	V
2457MHz		2483.53	45.4	-8.6	54	42.26	27.6	16.71	41.17	152	220	A	V
802.11ax		2354.32	49.32	-24.68	74	46.06	27.89	16.5	41.13	100	357	P	V
HE40		2344.56	37.62	-16.38	54	34.35	27.91	16.49	41.13	100	357	A	V
Partial	*	2462	86.74	-	-	83.62	27.6	16.68	41.16	100	357	P	V
484/65	*	2462	77.45	-	-	74.33	27.6	16.68	41.16	100	357	A	V
CH 11		2483.8	60.16	-13.84	74	57.02	27.6	16.71	41.17	100	357	P	V
2462MHz		2483.53	41.53	-12.47	54	38.39	27.6	16.71	41.17	100	357	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



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	Peak or Average
H/V	Horizontal or Vertical



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.	
1+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11b		2390	55.45	-18.55	74	54.51	32.22	4.58	35.86	103	308	P	H
CH 01													
2412MHz		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 C. Radiated Spurious Emission Plots

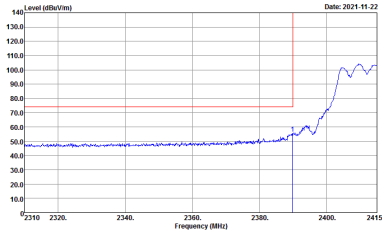
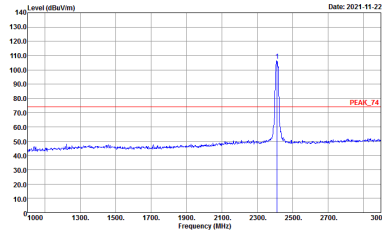
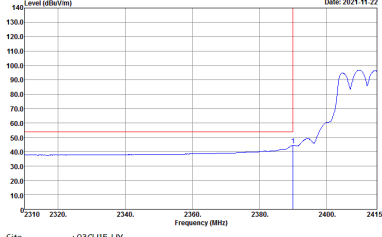
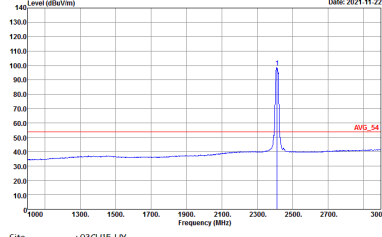
Test Engineer :	Leo Lee, Mancy Chou and Bigshow Wang	Temperature :	22.1 ~ 23.6°C
		Relative Humidity :	55.0 ~ 65.0%

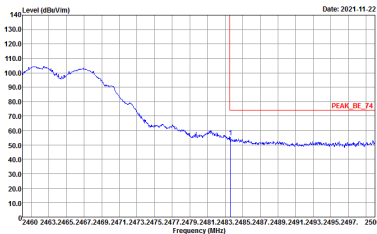
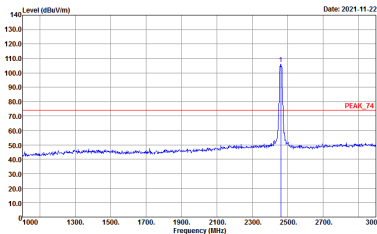
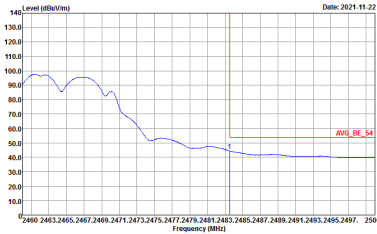
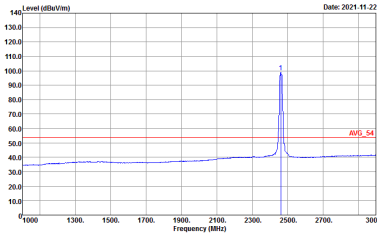
Remark: For Radiated Spurious Emission Plots Test Items, Ant. 1 means Chain 0 (Aux.) and Ant. 2 means Chain 1 (Main).

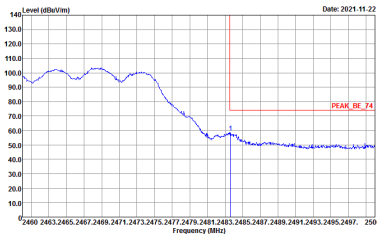
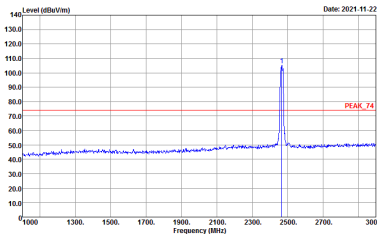
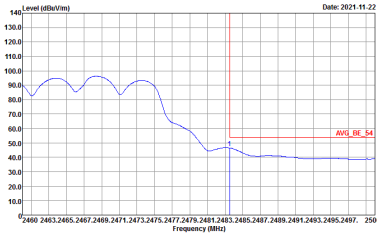
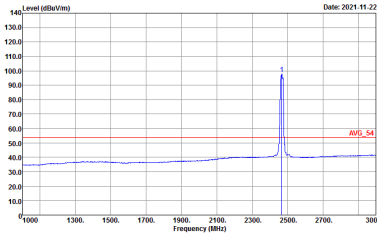
Note symbol

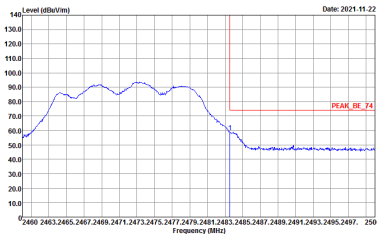
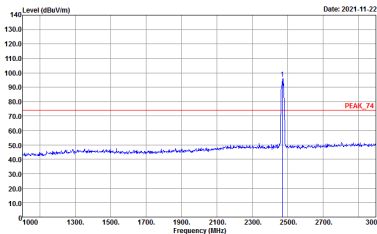
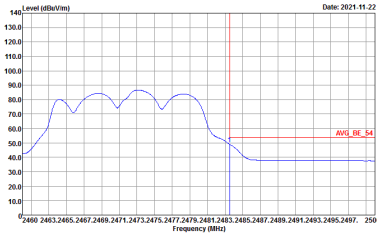
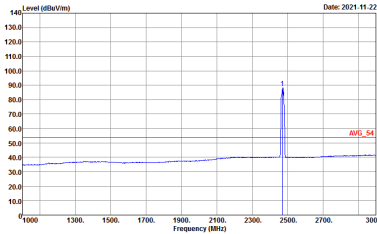
-L	Low channel location
-R	High channel location

2.4GHz 2400~2483.5MHz
WIFI 802.11g (Band Edge @ 3m)

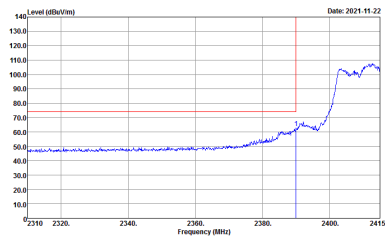
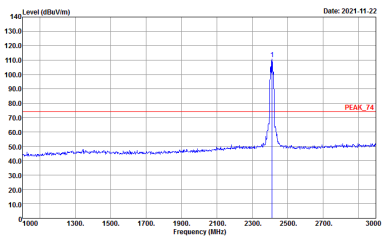
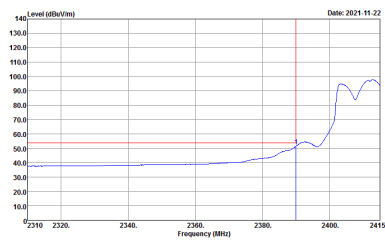
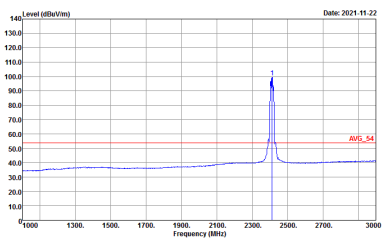
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH01 2412MHz	
1+2	Vertical	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_1620_20211025 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH15-HY Condition : PEAK_74 3m 91200_1620_20211025 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_1620_20211025 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto	 Site : 03CH15-HY Condition : AVG_54 3m 91200_1620_20211025 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto

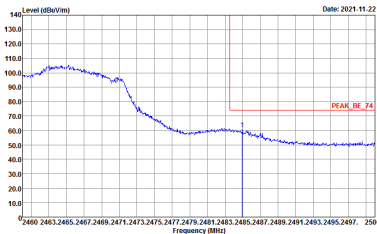
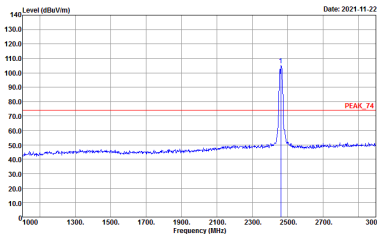
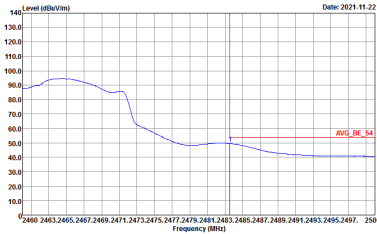
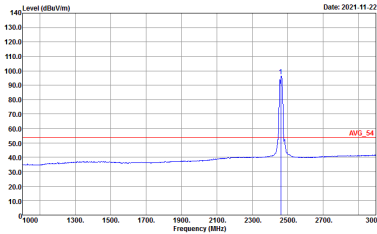
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH11 2462MHz	
1+2	Vertical	Fundamental
Peak	 Site : 03CH15-HY Condition : : PEAK_BE_74 3m 91200_1620_20211025 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH15-HY Condition : : PEAK_74 3m 91200_1620_20211025 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH15-HY Condition : : AVG_BE_54 3m 91200_1620_20211025 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto	 Site : 03CH15-HY Condition : : AVG_54 3m 91200_1620_20211025 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto

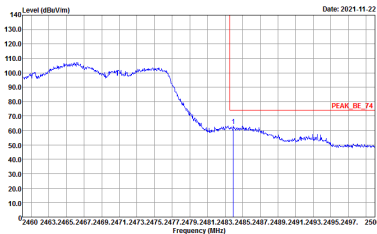
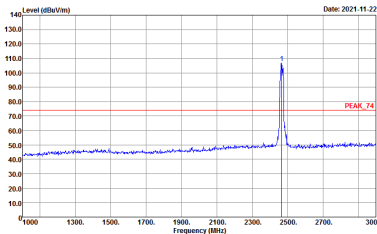
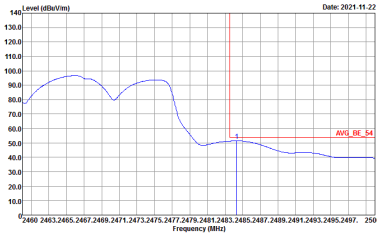
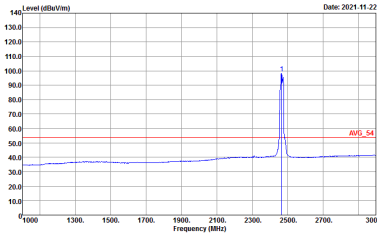
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH12 2467MHz	
1+2	Vertical	Fundamental
Peak	 Site : 03CH15-HY Condition : : PEAK_BE_74 3m 91200_1620_20211025 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH15-HY Condition : : PEAK_74 3m 91200_1620_20211025 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH15-HY Condition : : AVG_BE_54 3m 91200_1620_20211025 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto	 Site : 03CH15-HY Condition : : AVG_54 3m 91200_1620_20211025 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto

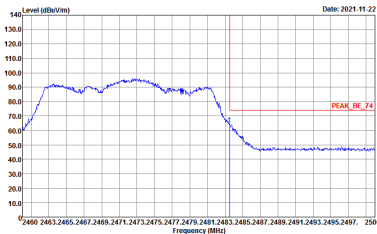
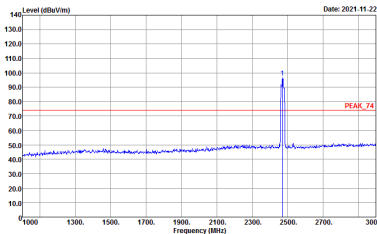
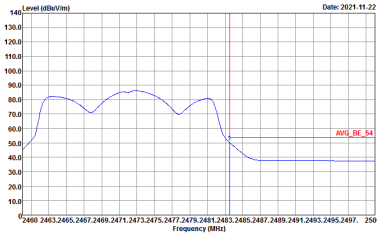
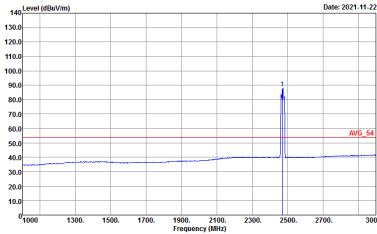
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH13 2472MHz	
1+2	Vertical	Fundamental
Peak	 Site : 03CH15-HY Condition : : PEAK_BE_74 3m 91200_1620_20211025 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH15-HY Condition : : PEAK_74 3m 91200_1620_20211025 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH15-HY Condition : : AVG_BE_54 3m 91200_1620_20211025 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto	 Site : 03CH15-HY Condition : : AVG_54 3m 91200_1620_20211025 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto

2.4GHz 2400~2483.5MHz
WIFI 802.11ax HE20 Full (Band Edge @ 3m)

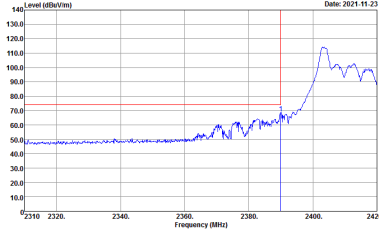
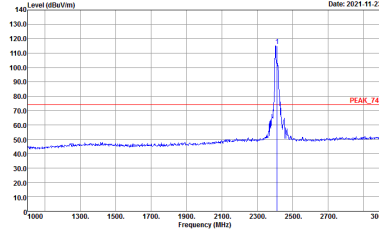
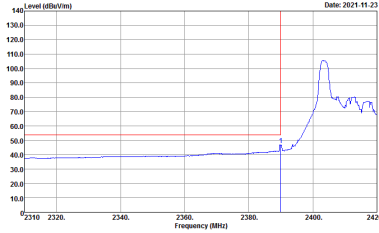
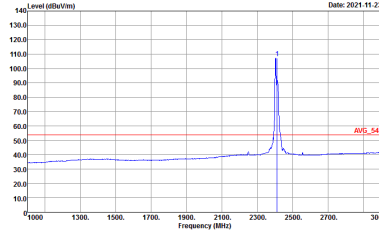
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH01 2412MHz	
1+2	Vertical	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_1620_20211025 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH15-HY Condition : PEAK_74 3m 91200_1620_20211025 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_1620_20211025 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto	 Site : 03CH15-HY Condition : AVG_54 3m 91200_1620_20211025 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH11 2462MHz	
1+2	Vertical	Fundamental
Peak	 Site : 03CH15-HY Condition : : PEAK_BE_74 3m 91200_1620_20211025 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH15-HY Condition : : PEAK_74 3m 91200_1620_20211025 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH15-HY Condition : : AVG_BE_54 3m 91200_1620_20211025 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto	 Site : 03CH15-HY Condition : : AVG_54 3m 91200_1620_20211025 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH12 2467MHz	
1+2	Vertical	Fundamental
Peak	 Site : 03CH15-HY Condition : : PEAK_BE_74 3m 91200_1620_20211025 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH15-HY Condition : : PEAK_74 3m 91200_1620_20211025 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
	 Site : 03CH15-HY Condition : : AVG_BE_54 3m 91200_1620_20211025 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto	 Site : 03CH15-HY Condition : : AVG_54 3m 91200_1620_20211025 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto
Avg.		

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH13 2472MHz	
1+2	Vertical	Fundamental
Peak	 Site : 03CH15-HY Condition : : PEAK_BE_74 3m 91200_1620_20211025 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH15-HY Condition : : PEAK_74 3m 91200_1620_20211025 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH15-HY Condition : : AVG_BE_54 3m 91200_1620_20211025 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto	 Site : 03CH15-HY Condition : : AVG_54 3m 91200_1620_20211025 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto

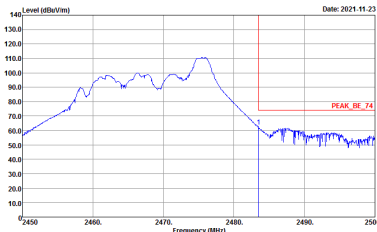
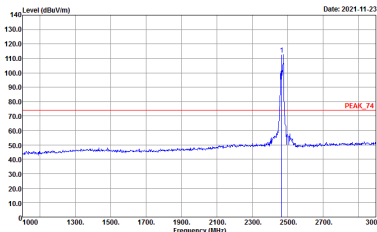
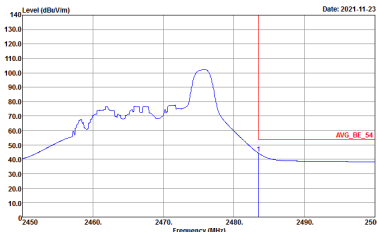
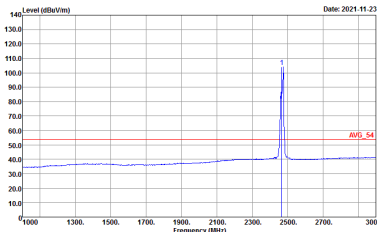
2.4GHz 2400~2483.5MHz
WIFI 802.11ax HE20 Partial 26 (Band Edge @ 3m)

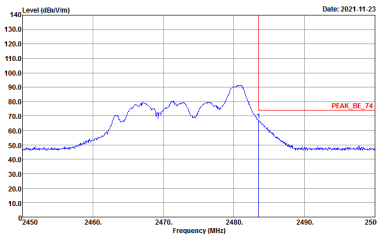
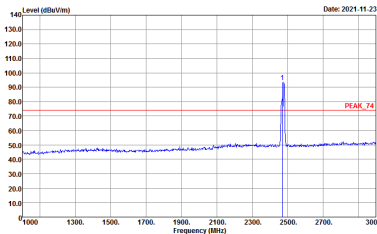
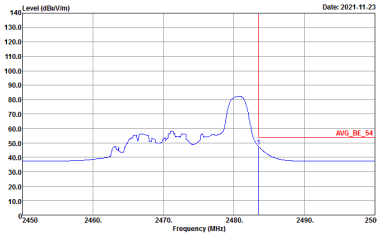
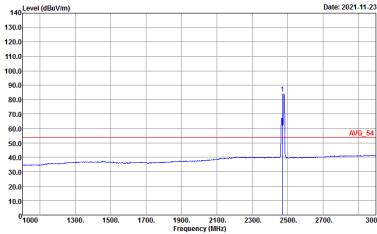
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11ax HE20 Partial 26/0 CH01 2412MHz	
1+2	Vertical	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_1620_20211025 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH15-HY Condition : PEAK_74 3m 91200_1620_20211025 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_1620_20211025 VERTICAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto	 Site : 03CH15-HY Condition : AVG_54 3m 91200_1620_20211025 VERTICAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto



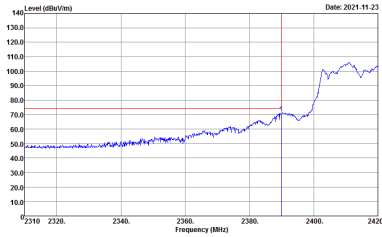
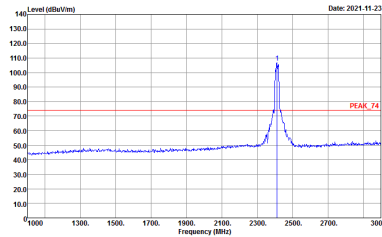
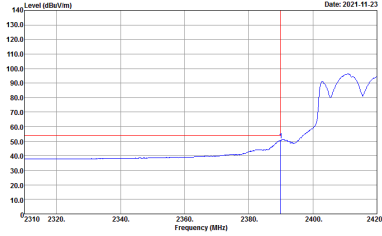
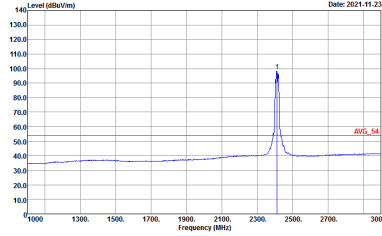
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11ax HE20 Partial 26/8 CH11 2462MHz	
1+2	Vertical	Fundamental
Peak	Site : 03CH15-HY Condition : : PEAK_BE_74 3m 91200_1620_20211025 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Site : 03CH15-HY Condition : : PEAK_74 3m 91200_1620_20211025 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	Site : 03CH15-HY Condition : : AVG_BE_54 3m 91200_1620_20211025 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto	Site : 03CH15-HY Condition : : AVG_54 3m 91200_1620_20211025 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto



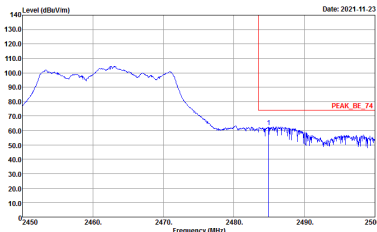
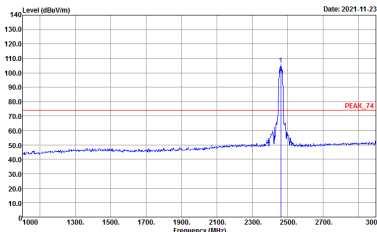
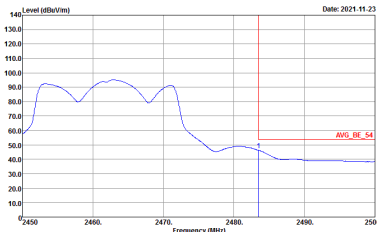
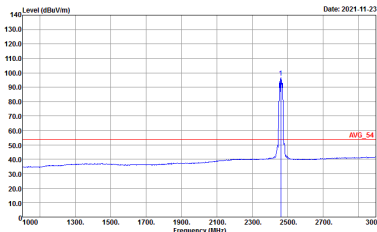
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11ax HE20 Partial 26/8 CH12 2467MHz	
1+2	Vertical	Fundamental
Peak	 Site : 03CH15-HY Condition : : PEAK_BE_74 3m 91200_1620_20211025 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH15-HY Condition : : PEAK_74 3m 91200_1620_20211025 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH15-HY Condition : : AVG_BE_54 3m 91200_1620_20211025 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto	 Site : 03CH15-HY Condition : : AVG_54 3m 91200_1620_20211025 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11ax HE20 Partial 26/8 CH13 2472MHz	
1+2	Vertical	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_1620_20211025 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH15-HY Condition : PEAK_74 3m 91200_1620_20211025 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
	 Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_1620_20211025 VERTICAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto	 Site : 03CH15-HY Condition : AVG_54 3m 91200_1620_20211025 VERTICAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto
Avg.		

2.4GHz 2400~2483.5MHz
WIFI 802.11ax HE20 Partial 242 (Band Edge @ 3m)

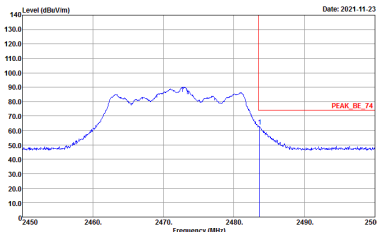
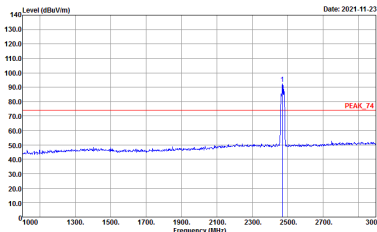
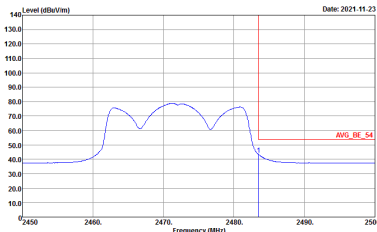
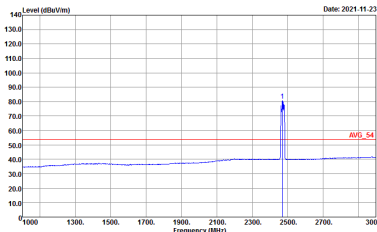
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11ax HE20 Partial 242/61 CH01 2412MHz	
1+2	Vertical	Fundamental
Peak	 Site : 03CHI5-HY Condition : PEAK_BE_74 3m 91200_1620_20211025 VERTICAL	 Site : 03CHI5-HY Condition : PEAK_74 3m 91200_1620_20211025 VERTICAL
	 Site : 03CHI5-HY Condition : AVG_BE_54 3m 91200_1620_20211025 VERTICAL	 Site : 03CHI5-HY Condition : AVG_54 3m 91200_1620_20211025 VERTICAL



WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11ax HE20 Partial 242/61 CH11 2462MHz	
1+2	Vertical	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_1620_20211025 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH15-HY Condition : PEAK_74 3m 91200_1620_20211025 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_1620_20211025 VERTICAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto	 Site : 03CH15-HY Condition : AVG_54 3m 91200_1620_20211025 VERTICAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto



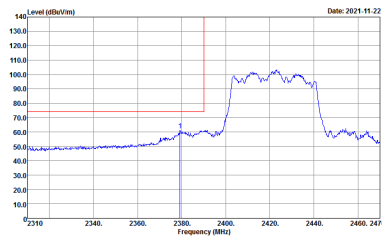
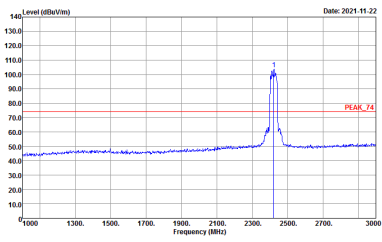
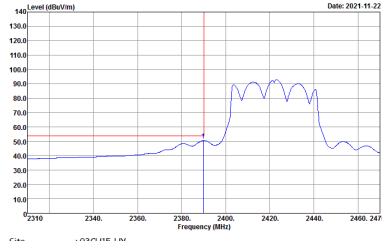
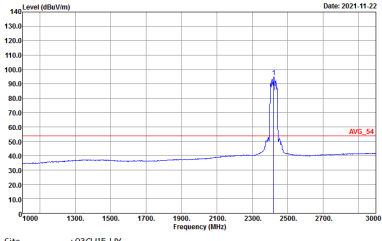
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11ax HE20 Partial 242/61 CH12 2467MHz	
1+2	Vertical	Fundamental
Peak	Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_1620_20211025 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Site : 03CH15-HY Condition : PEAK_74 3m 91200_1620_20211025 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_1620_20211025 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto	Site : 03CH15-HY Condition : AVG_54 3m 91200_1620_20211025 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11ax HE20 Partial 242/61CH13 2472MHz	
1+2	Vertical	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_1620_20211025 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH15-HY Condition : PEAK_74 3m 91200_1620_20211025 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_1620_20211025 VERTICAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto	 Site : 03CH15-HY Condition : AVG_54 3m 91200_1620_20211025 VERTICAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto

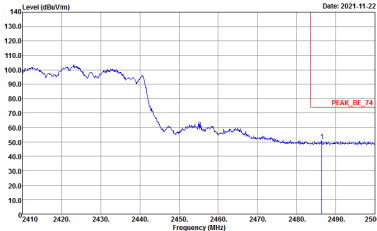
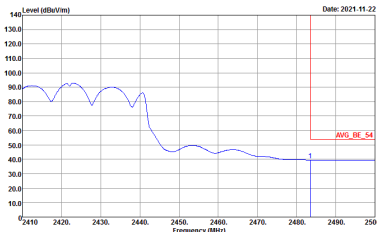


2.4GHz 2400~2483.5MHz

WIFI 802.11ax HE40 Full (Band Edge @ 3m)

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH03 2422MHz - L	
1+2	Vertical	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_1620_20211025 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH15-HY Condition : PEAK_74 3m 91200_1620_20211025 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_1620_20211025 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto	 Site : 03CH15-HY Condition : AVG_54 3m 91200_1620_20211025 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto

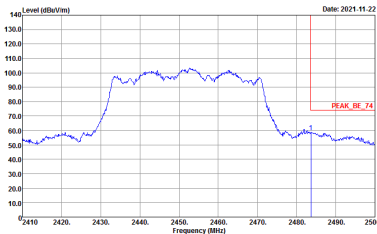
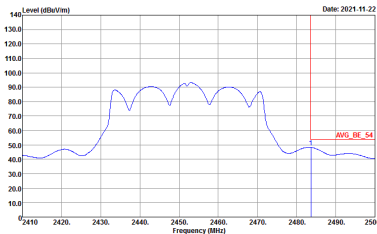


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH03 2422MHz - R	
1+2	Vertical	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_1620_20211025 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank
Avg.	 Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_1620_20211025 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto	Left blank

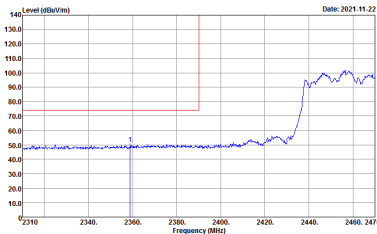
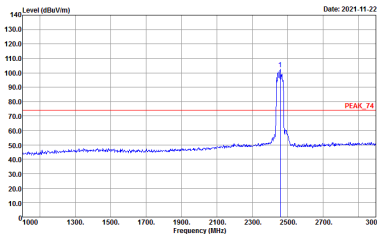
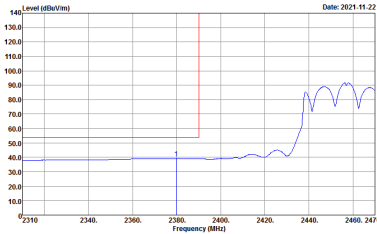
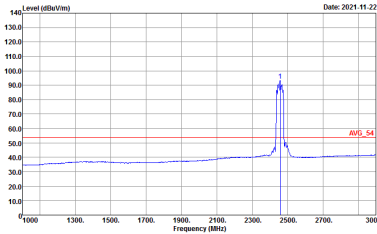


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH09 2452MHz - L	
1+2	Vertical	Fundamental
Peak	Site : 03CH15-HY Condition : PEAK_9C_74 3m 91200_1620_20211025 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Site : 03CH15-HY Condition : PEAK_74 3m 91200_1620_20211025 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_1620_20211025 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto	Site : 03CH15-HY Condition : AVG_54 3m 91200_1620_20211025 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto

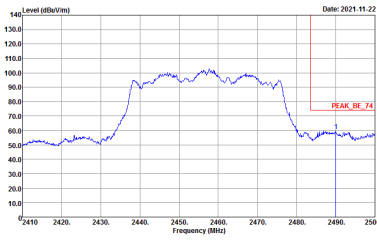
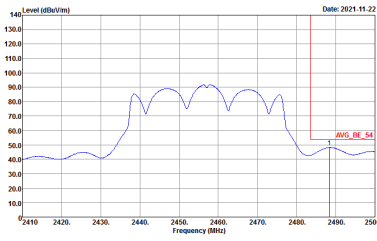


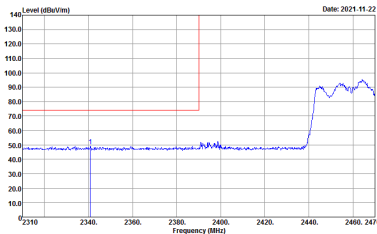
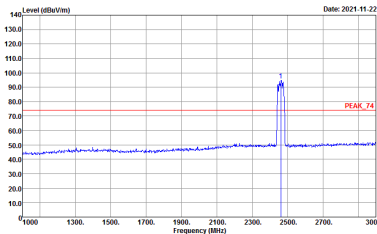
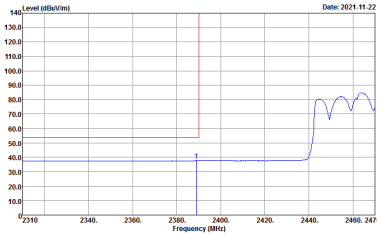
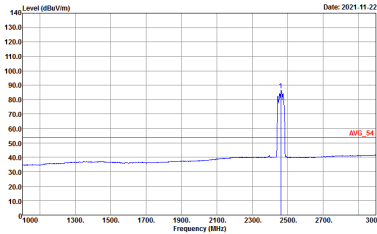
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH09 2452MHz - R	
1+2	Vertical	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_1620_20211025 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank
Avg.	 Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_1620_20211025 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto	Left blank



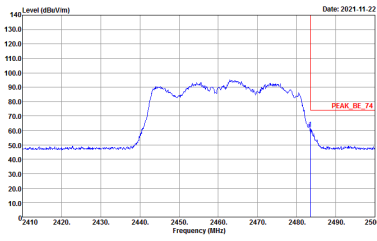
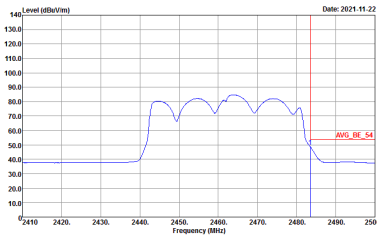
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH10 2457MHz - L	
1+2	Vertical	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_9C_74 3m 91200_1620_20211025 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH15-HY Condition : PEAK_74 3m 91200_1620_20211025 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_1620_20211025 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto	 Site : 03CH15-HY Condition : AVG_54 3m 91200_1620_20211025 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto



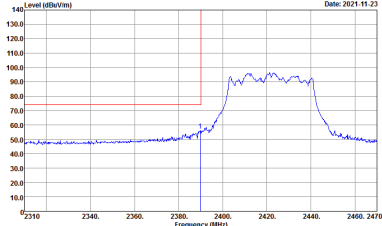
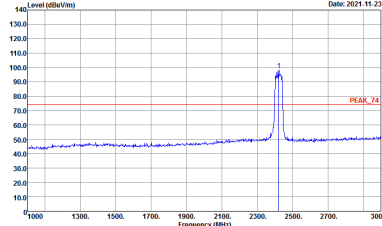
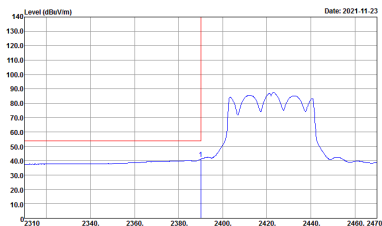
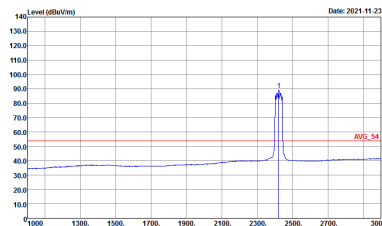
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH10 2457MHz - R	
1+2	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH11 2462MHz - L	
1+2	Vertical	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_9C_74 3m 91200_1620_20211025 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH15-HY Condition : PEAK_74 3m 91200_1620_20211025 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_1620_20211025 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto	 Site : 03CH15-HY Condition : AVG_54 3m 91200_1620_20211025 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto

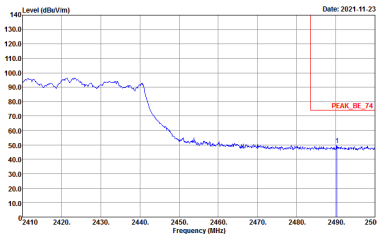
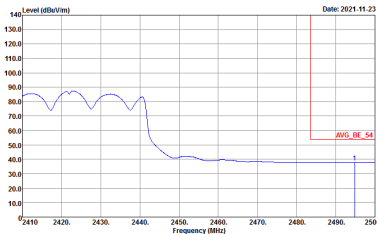


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH11 2462MHz - R	
1+2	Vertical	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_1620_20211025 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank
Avg.	 Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_1620_20211025 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto	Left blank

2.4GHz 2400~2483.5MHz
WIFI 802.11ax HE40 Partial 484 (Band Edge @ 3m)

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11ax HE40 Partial 484/65 CH03 2422MHz - L	
1+2	Vertical	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_1620_20211025 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH15-HY Condition : PEAK_74 3m 91200_1620_20211025 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
	 Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_1620_20211025 VERTICAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto	 Site : 03CH15-HY Condition : AVG_54 3m 91200_1620_20211025 VERTICAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto

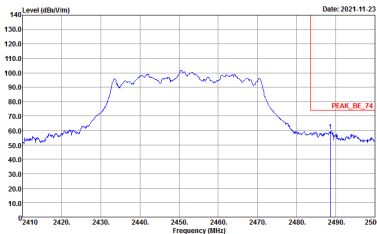
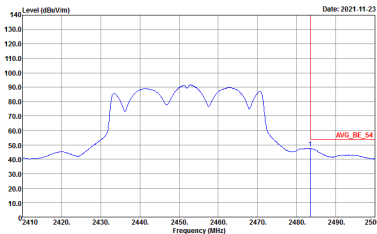


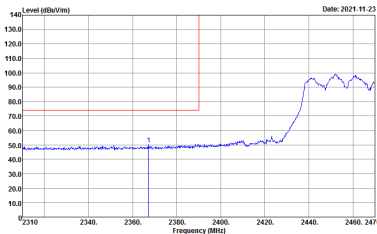
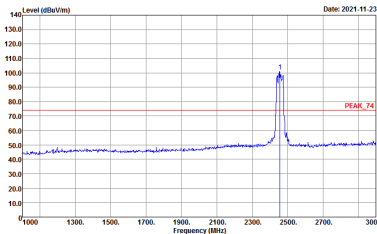
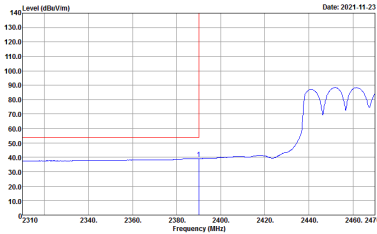
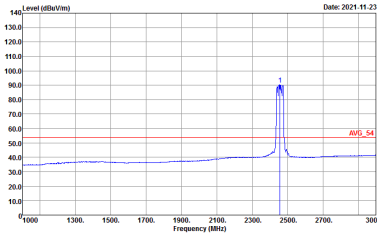
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11ax HE40 Partial 484/65 CH03 2422MHz - R	
1+2	Vertical	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_1620_20211025 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank
Avg.	 Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_1620_20211025 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto	Left blank



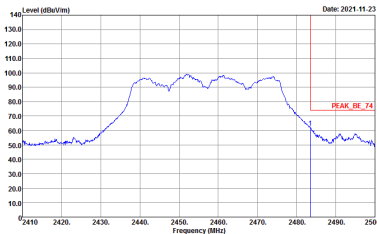
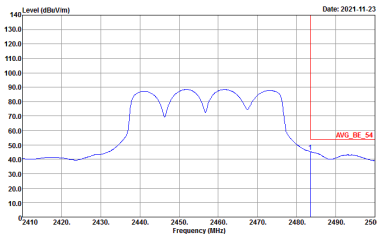
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11ax HE40 Partial 484/65 CH09 2452MHz - L	
1+2	Vertical	Fundamental
Peak	Site : 03CH15-HY Condition : PEAK_9C_74 3m 91200_1620_20211025 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Site : 03CH15-HY Condition : PEAK_74 3m 91200_1620_20211025 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_1620_20211025 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto	Site : 03CH15-HY Condition : AVG_54 3m 91200_1620_20211025 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto

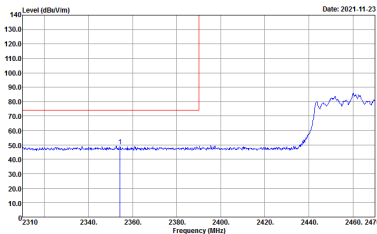
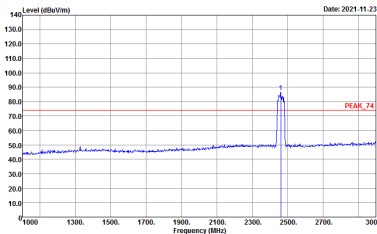
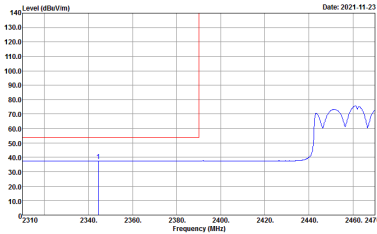
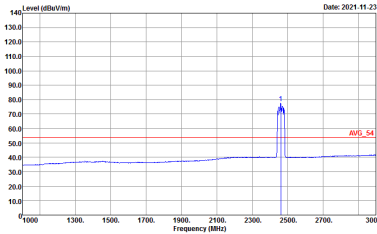


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11ax HE40 Partial 484/65 CH09 2452MHz - R	
1+2	Vertical	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_1620_20211025 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank
Avg.	 Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_1620_20211025 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto	Left blank

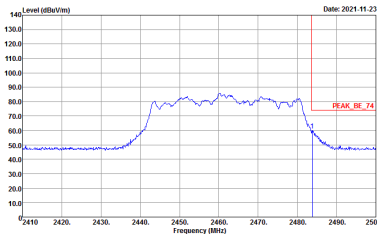
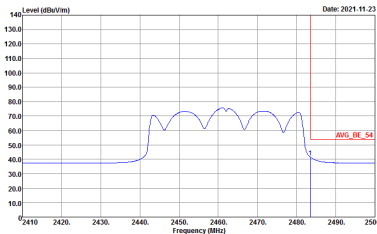
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11ax HE40 Partial 484/65 CH10 2457MHz - L	
1+2	Vertical	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_9C_74 3m 91200_1620_20211025 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH15-HY Condition : PEAK_74 3m 91200_1620_20211025 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_1620_20211025 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto	 Site : 03CH15-HY Condition : AVG_54 3m 91200_1620_20211025 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto



WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11ax HE40 Partial 484/65 CH10 2457MHz - R	
1+2	Vertical	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_1620_20211025 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank
Avg.	 Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_1620_20211025 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto	Left blank

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11ax HE40 Partial 484/65 CH11 2462MHz - L	
1+2	Vertical	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_9C_74 3m 91200_1620_20211025 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH15-HY Condition : PEAK_74 3m 91200_1620_20211025 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_1620_20211025 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto	 Site : 03CH15-HY Condition : AVG_54 3m 91200_1620_20211025 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto

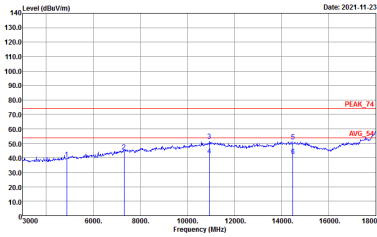
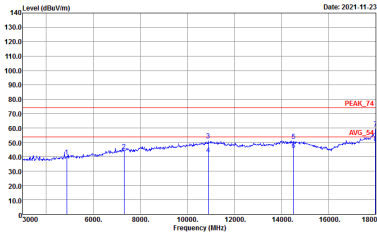


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11ax HE40 Partial 484/65 CH11 2462MHz - R	
1+2	Vertical	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_1620_20211025 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank
Avg.	 Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_1620_20211025 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto	Left blank



2.4GHz 2400~2483.5MHz

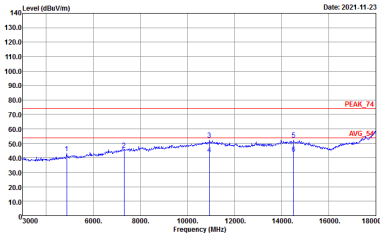
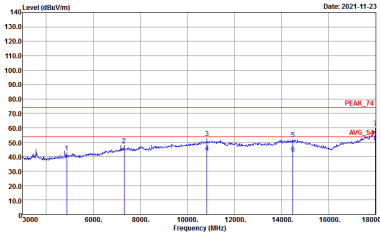
WIFI 802.11b (Harmonic @ 3m)

WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11b CH06 2437MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH15-HY Condition : PEAK_74 3m 91200_1620_20211025 HORIZONTAL	 Site : 03CH15-HY Condition : PEAK_74 3m 91200_1620_20211025 VERTICAL



2.4GHz 2400~2483.5MHz

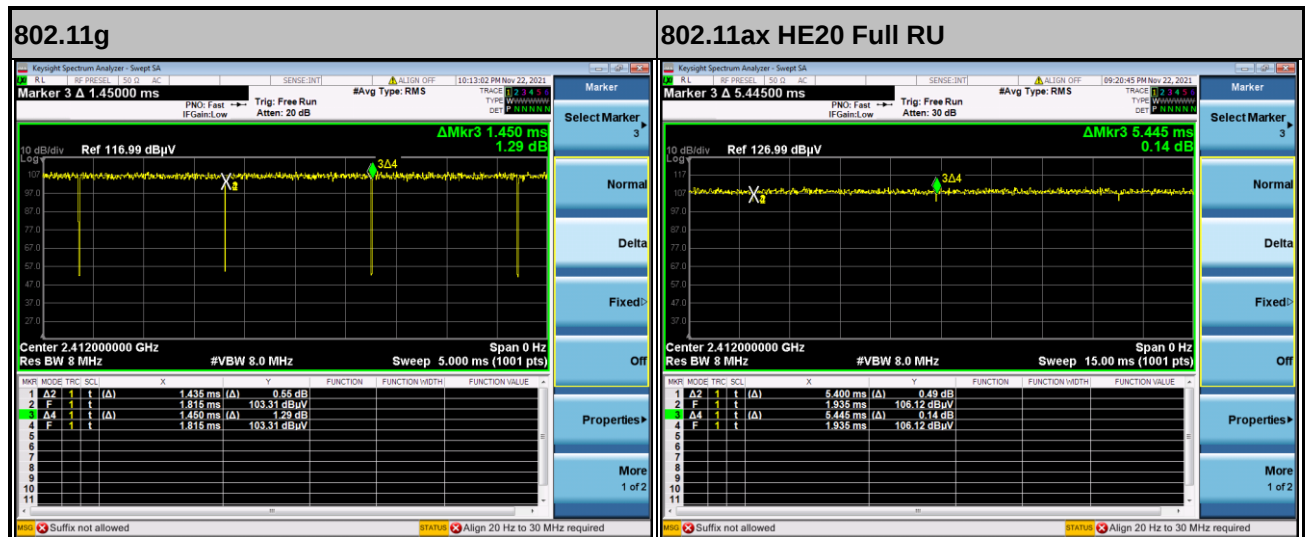
WIFI 802.11ax HE20 Partial 26 (Harmonic @ 3m)

WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11ax HE20 Partial 26/4 CH06 2437MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH15-HY Condition : PEAK_74 3m 91200_1620_20211025 HORIZONTAL	 Site : 03CH15-HY Condition : PEAK_74 3m 91200_1620_20211025 VERTICAL

Appendix D. Duty Cycle Plots

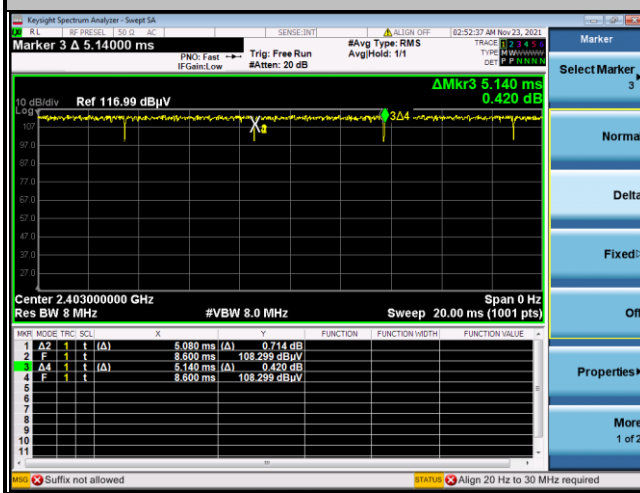
Chain	Band	Duty Cycle(%)	T(us)	1/T(kHz)	VBW Setting
0+1	2.4GHz 802.11g	98.97	-	-	10Hz
0+1	2.4GHz 802.11ax HE20 Full RU	99.17	-	-	10Hz
0+1	2.4GHz 802.11ax HE20 26 RU	98.83	-	-	10Hz
0+1	2.4GHz 802.11ax HE20 242 RU	99.40	-	-	10Hz
0+1	2.4GHz 802.11ax HE40 Full RU	98.54	-	-	10Hz
0+1	2.4GHz 802.11ax HE40 484 RU	99.40	-	-	10Hz

MIMO <Chain 0+1>

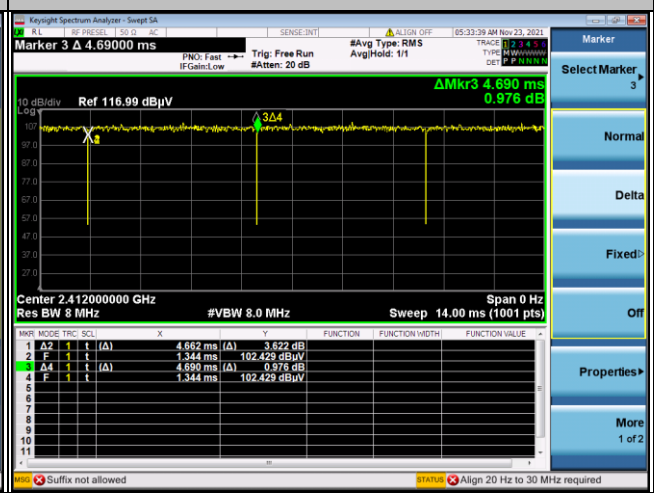




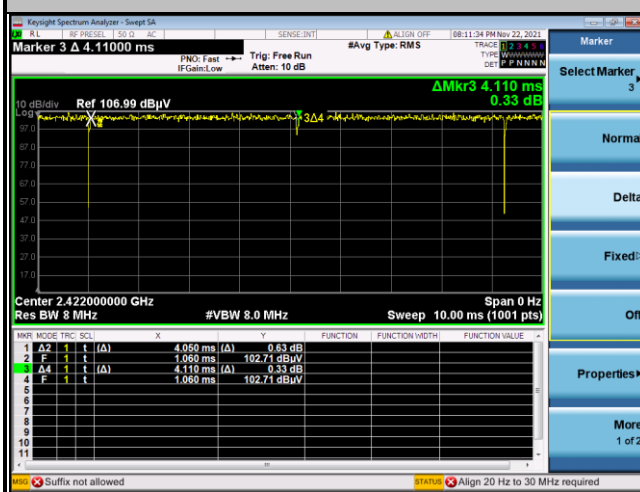
802.11ax HE20 26 RU



802.11ax HE20 242 RU



802.11ax HE40 Full RU



802.11ax HE40 484 RU

