

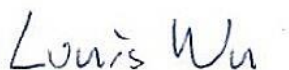


FCC RADIO TEST REPORT

FCC ID : 2AW3A-1NAC21ACUCM
Equipment : EV Charger
Brand Name : RIVIAN
Model Name : PT00057322
PT00261633
PT00401761
PT00340197
Marketing Name : RIVIAN WAYPOINTS CHARGER
RIVIAN FLEET AC DISPENSER
Applicant : Rivian Automotive LLC.
607 Hansen Way, Palo Alto, CA 94304
Manufacturer : Lite-On Technology Corporation
15F , No.555, Siyuan Rd., Xinzhuang
Dist., New Taipei City, Taiwan (R.O.C.)
Standard : FCC Part 15 Subpart C §15.247

The product was received on Mar. 17, 2022 and testing was performed from Apr. 07, 2022 to May 17, 2022. 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
FR230116D	01	Initial issue of report	Sep. 14, 2022
FR230116D	02	Revise Antenna information	Sep. 27, 2022

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	6.56 dB under the limit at 4874.000 MHz
3.3	15.207	AC Conducted Emission	Pass	1.39 dB under the limit at 0.279 MHz
3.4	15.203 & 15.247(b)	Antenna Requirement	Pass	-

Note: The module (Model: LILY-W131) makes no difference after verifying output power, this report reuses test data from the module report.

Declaration of Conformity:

1. The test results (PASS/FAIL) with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers. It's means measurement values may risk exceeding the limit of regulation standards, if measurement uncertainty is include in test results.
2. The measurement uncertainty please refer to this report "Uncertainty of Evaluation".

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: Yun Huang

Report Producer: Rachel Hsieh



1 General Description

1.1 Product Feature of Equipment Under Test

GSM/LTE, Bluetooth - LE, Wi-Fi 2.4GHz 802.11b/g/n and NFC.

Product Feature	
Sample 1	SKU 1
Sample 2	SKU 2
Sample 3	SKU 3
Sample 4	SKU 4
Antenna Type	WWAN: Fixed External Antenna WLAN: FPC Antenna Bluetooth - LE: Internal Antenna NFC: PCB Loop Antenna

Antenna information		
2412 MHz ~2462 MHz	Peak Gain (dBi)	2.2

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

	SKU 1	SKU 2	SKU 3	SKU 4
	Public	Fleet	Fleet	Fleet
	LITEON:	LITEON:	LITEON:	LITEON:
	W1-UC166-0TH1ER	W1-UC16A-00H1ER	W1-UC168-00H1ER	W1-UC166-00H1ER
	RIVIAN: PT00057322	RIVIAN:PT00261633	RIVIAN: PT00340197	RIVIAN:PT00401761
LCD Panel	Yes	NO	NO	NO
Charge Plug	25ft	32ft	25ft	18ft
LTE module	YES	YES	YES	YES
BLE module	YES	YES	YES	YES
Wi-Fi module	YES	YES	YES	YES
RFID module	YES	YES	YES	YES
Holster	YES	NO	NO	NO
Holster cover	YES	YES	YES	YES

1.2 Modification of EUT

No modifications made to the EUT during the testing.

1.3 Testing Location

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

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

Test Site	Sporton International Inc. Wensan Laboratory
Test Site Location	No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.) TEL: +886-3-327-0868 FAX: +886-3-327-0855
Test Site No.	Sporton Site No. TH05-HY, 03CH11-HY

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

FCC designation No.: TW1190 and 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 only the worst case emissions were reported in this report.
- b. AC power line Conducted Emission was tested under maximum output power.

2.1 Carrier Frequency and Channel

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
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

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

Single Antenna

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

Test Cases	
AC Conducted Emission	Mode 1 : WLAN (2.4GHz) Link + Bluetooth Link + Power Cable (240 Vac) for Sample 1 Mode 2 : WLAN (2.4GHz) Link + Bluetooth Link + Power Cable (240 Vac) for Sample 2
Remark: 1. The worst case of Conducted Emission is mode 2; only the test data of it was reported. 2. For Radiated Test Cases, the tests were performed with Sample 1.	

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



2.4 Support Unit used in test configuration and system

Item	Equipment	Brand Name	Model Name	FCC ID	Data Cable	Power Cord
1.	WLAN AP	ASUS	RT-AC66U	MSQ-RTAC66U	N/A	Unshielded, 1.8 m
2.	Notebook	DELL	Latitude 3400	FCC DoC	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
3.	Mobile Phone	SAMSUNG	SM-A730F/DS	A3LSMA730F	N/A	N/A

2.5 EUT Operation Test Setup

The RF test items, utility "DutAPIWiFi8801BrdigeEth" 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.

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.

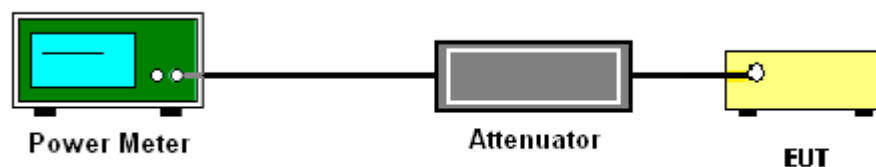
3.1.2 Measuring Instruments

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

3.1.3 Test Procedures

1. For Peak Power, the testing follows ANSI C63.10 Section 11.9.1.3 PKPM1
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.

3.1.4 Test Setup



3.1.5 Test Result of Peak 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

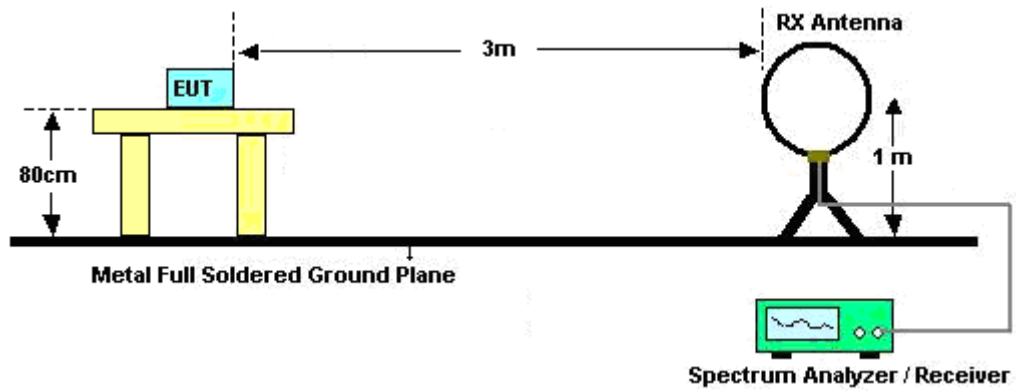
Please refer to the measuring equipment list in this test report.

3.2.3 Test Procedures

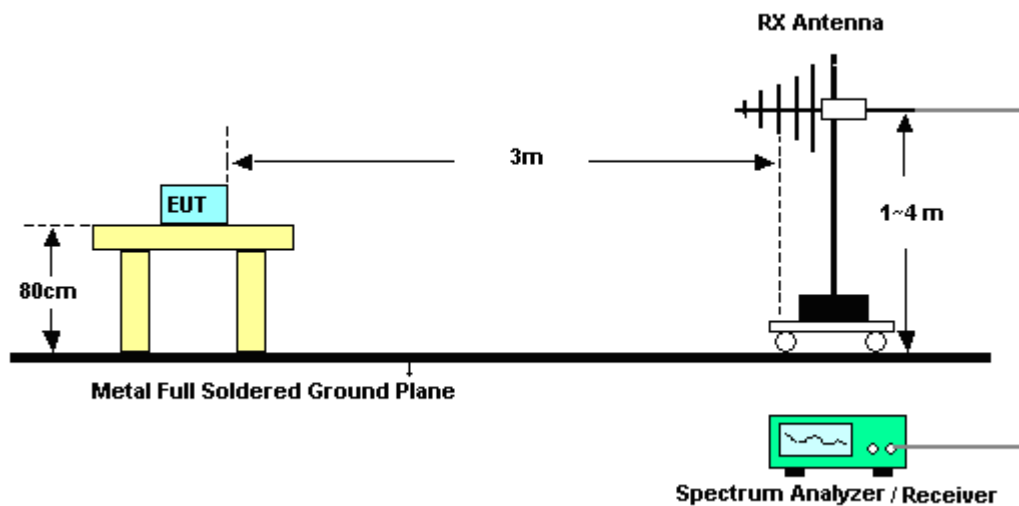
1. The testing follows the ANSI C63.10 Section 11.12.1 Radiated emission measurements.
2. The EUT is arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level.
3. The EUT is placed on a turntable with 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 $\geq$ 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

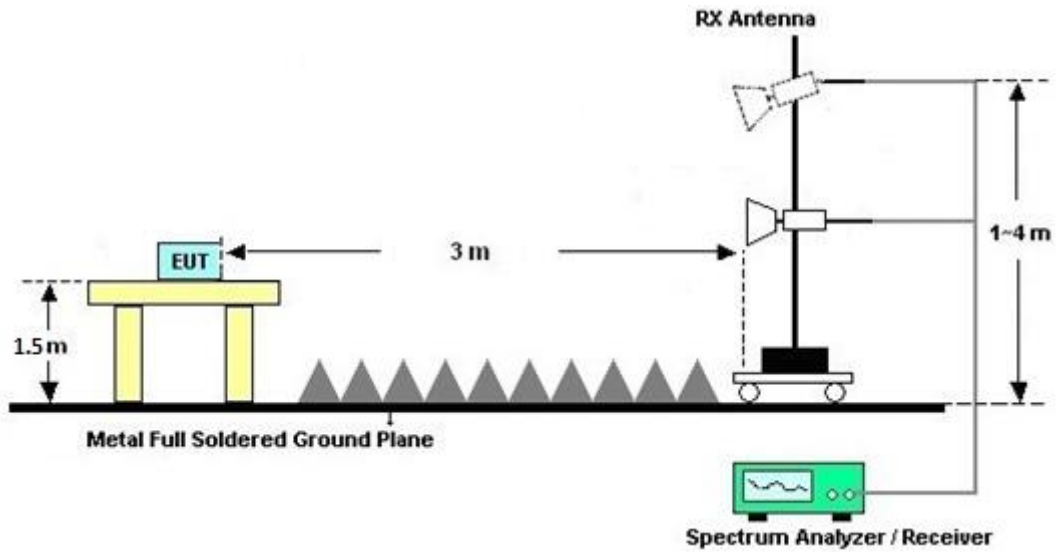
For radiated emissions below 30MHz



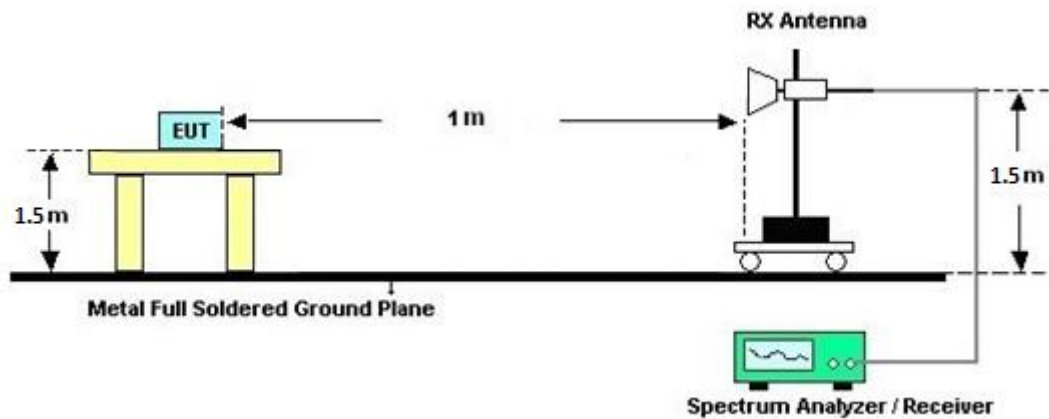
For radiated emissions from 30MHz to 1GHz



For radiated test from 1GHz to 18GHz



For radiated test above 18GHz



**3.2.5 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.

3.2.6 Test Result of Radiated Spurious at Band Edges

Please refer to Appendix C and D.

3.2.7 Duty Cycle

Please refer to Appendix E.

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

Please refer to Appendix C and D.

3.3 AC Conducted Emission Measurement

3.3.1 Limit of AC Conducted Emission

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

Frequency of Emission (MHz)	Conducted Limit (dB μ V)	
	Quasi-Peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

*Decreases with the logarithm of the frequency.

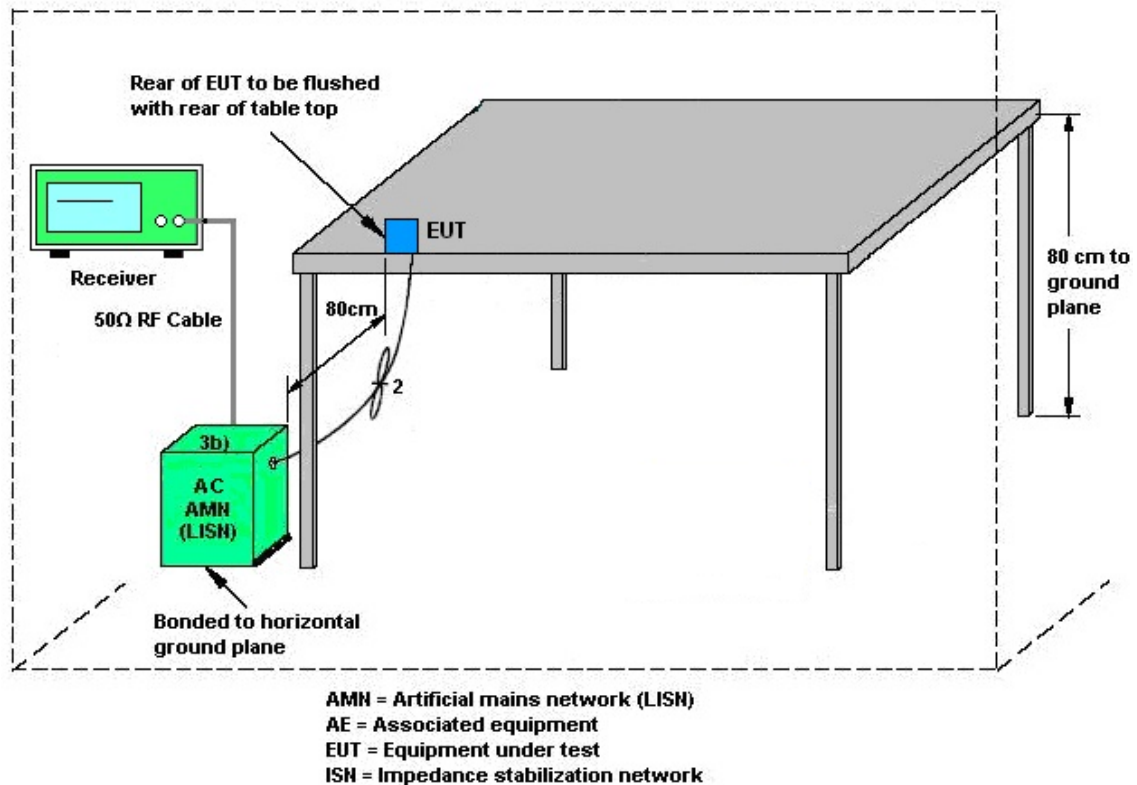
3.3.2 Measuring Instruments

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

3.3.3 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.

3.3.4 Test Setup



3.3.5 Test Result of AC Conducted Emission

Please refer to Appendix B.



3.4 Antenna Requirements

3.4.1 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.

3.4.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.

3.4.3 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
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100315	9 kHz~30 MHz	Jan. 07, 2022	Apr. 22, 2022~May 17, 2022	Jan. 06, 2023	Radiation (03CH11-HY)
Bilog Antenna	TESEQ	CBL 6111D & N-6-06	35414 & AT-N0602	30MHz~1GHz	Oct. 09, 2021	Apr. 22, 2022~May 17, 2022	Oct. 08, 2022	Radiation (03CH11-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-1212	1GHz ~ 18GHz	Mar. 10, 2022	Apr. 22, 2022~May 17, 2022	Mar. 09, 2023	Radiation (03CH11-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA9170	00993	18GHz~40GHz	Nov. 30, 2021	Apr. 22, 2022~May 17, 2022	Nov. 29, 2022	Radiation (03CH11-HY)
Amplifier	SONOMA	310N	187312	9kHz~1GHz	Dec. 10, 2021	Apr. 22, 2022~May 17, 2022	Dec. 09, 2022	Radiation (03CH11-HY)
Preamplifier	Keysight	83017A	MY53270080	1GHz~26.5GHz	Nov. 10, 2021	Apr. 22, 2022~May 17, 2022	Nov. 09, 2022	Radiation (03CH11-HY)
Preamplifier	Jet-Power	JPA0118-55-303	1710001800055007	1GHz~18GHz	Jun. 16, 2021	Apr. 22, 2022~May 17, 2022	Jun. 15, 2022	Radiation (03CH11-HY)
Preamplifier	EMEC	EM18G40G	060801	18GHz~40GHz	Jun. 22, 2021	Apr. 22, 2022~May 17, 2022	Jun. 21, 2022	Radiation (03CH11-HY)
Spectrum Analyzer	Keysight	N9010A	MY54200486	10Hz~44GHz	Oct. 15, 2021	Apr. 22, 2022~May 17, 2022	Oct. 14, 2022	Radiation (03CH11-HY)
EMI Test Receiver	Keysight	N9038A(MXE)	MY55420170	20MHz~8.4GHz	Jul. 15, 2021	Apr. 22, 2022~May 17, 2022	Jul. 14, 2022	Radiation (03CH11-HY)
Controller	EMEC	EM 1000	N/A	Control Turn table & Ant Mast	N/A	Apr. 22, 2022~May 17, 2022	N/A	Radiation (03CH11-HY)
Antenna Mast	EMEC	AM-BS-4500-B	N/A	1~4m	N/A	Apr. 22, 2022~May 17, 2022	N/A	Radiation (03CH11-HY)
Turn Table	EMEC	TT 2000	N/A	0~360 Degree	N/A	Apr. 22, 2022~May 17, 2022	N/A	Radiation (03CH11-HY)
Software	Audix	E3 6.2009-8-24	RK-001053	N/A	N/A	Apr. 22, 2022~May 17, 2022	N/A	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	MY2859/2	30MHz-40GHz	Mar. 10, 2022	Apr. 22, 2022~May 17, 2022	Mar. 09, 2023	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY9837/4PE	9kHz-30MHz	Mar. 10, 2022	Apr. 22, 2022~May 17, 2022	Mar. 09, 2023	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY9837/4PE	30MHz-18GHz	Mar. 10, 2022	Apr. 22, 2022~May 17, 2022	Mar. 09, 2023	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	811852/4	30MHz-18GHz	Mar. 10, 2022	Apr. 22, 2022~May 17, 2022	Mar. 09, 2023	Radiation (03CH11-HY)
Filter	Wainwright	WLK4-1000-1530-8000-40SS	SN11	1.53G Low Pass	Sep. 13, 2021	Apr. 22, 2022~May 17, 2022	Sep. 12, 2022	Radiation (03CH11-HY)
Filter	Wainwright	WHKX12-2700-3000-18000-60SS	SN3	3GHz High Pass Filter	Sep. 13, 2021	Apr. 22, 2022~May 17, 2022	Sep. 12, 2022	Radiation (03CH11-HY)
Filter	Wainwright	WHKX8-5872.5-6750-18000-40SS	SN3	6.75GHz High Pass Filter	Sep. 13, 2021	Apr. 22, 2022~May 17, 2022	Sep. 12, 2022	Radiation (03CH11-HY)
Filter	Wainwright	WHKX12-900-1000-15000-60SS	SN12	1GHz High Pass Filter	Nov. 04, 2021	Apr. 22, 2022~May 17, 2022	Nov. 03, 2022	Radiation (03CH11-HY)
Hygrometer	TECEPIL	DTM-303B	TP140325	N/A	Nov. 26, 2021	Apr. 22, 2022~May 17, 2022	Nov. 25, 2022	Radiation (03CH11-HY)
Hygrometer	TECEPIL	DTM-303B	TP200880	N/A	Sep. 30, 2021	Apr. 22, 2022~May 17, 2022	Sep. 29, 2022	Radiation (03CH11-HY)



Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
AC Power Source	ChainTek	APC-1000W	N/A	N/A	N/A	Apr. 11, 2022	N/A	Conduction (CO05-HY)
EMI Test Receiver	Rohde & Schwarz	ESR3	102388	9kHz~3.6GHz	Dec. 01, 2021	Apr. 11, 2022	Nov. 30, 2022	Conduction (CO05-HY)
Hygrometer	Testo	608-H1	34913912	N/A	Nov. 17, 2021	Apr. 11, 2022	Nov. 16, 2022	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100080	9kHz~30MHz	Dec. 03, 2021	Apr. 11, 2022	Dec. 02, 2022	Conduction (CO05-HY)
Software	Rohde & Schwarz	EMC32	N/A	N/A	N/A	Apr. 11, 2022	N/A	Conduction (CO05-HY)
Pulse Limiter	SCHWARZBECK	VTSD 9561-FN	00691	N/A	Jul. 28, 2021	Apr. 11, 2022	Jul. 27, 2022	Conduction (CO05-HY)
LISN Cable	MVE	RG-400	260260	N/A	Dec. 30, 2021	Apr. 11, 2022	Dec. 29, 2022	Conduction (CO05-HY)
Hygrometer	TECPEL	DTM-303A	TP201996	N/A	Nov. 16, 2021	Apr. 07, 2022	Nov. 15, 2022	Conducted (TH05-HY)
Power Meter	Anritsu	ML2495A	932001	N/A	Sep. 30, 2021	Apr. 07, 2022	Sep. 29, 2022	Conducted (TH05-HY)
Power Sensor	Anritsu	MA2411B	846202	300MHz~40GHz	Sep. 30, 2021	Apr. 07, 2022	Sep. 29, 2022	Conducted (TH05-HY)
Signal Analyzer	Rohde & Schwarz	FSV40	101566	10Hz~40GHz	Aug. 30, 2021	Apr. 07, 2022	Aug. 29, 2022	Conducted (TH05-HY)
Switch Control Mainframe	E-IUSTRUMENT	ETF-1405-0	EC1900067 (BOX7)	N/A	Aug. 12, 2021	Apr. 07, 2022	Aug. 11, 2022	Conducted (TH05-HY)

5 Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	3.1 dB
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Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.8 dB
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Uncertainty of Radiated Emission Measurement (1000 MHz ~ 18000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.4 dB
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Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.9 dB
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Appendix A. Test Result of Conducted Test Items

Test Engineer:	Junyu Jhou	Temperature:	21.9~23.1	°C
Test Date:	2022/4/7	Relative Humidity:	54.1~56.5	%

TEST RESULTS DATA
Peak Output Power

2.4GHz Band Single Antenna																
Mod.	Data Rate	Ntx	CH.	Freq. (MHz)	Peak 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	1	1	2412	17.28	-		30.00	-	2.20	-	19.48	-	36.00	-	Pass
11b	1Mbps	1	6	2437	16.73	-		30.00	-	2.20	-	18.93	-	36.00	-	Pass
11b	1Mbps	1	11	2462	16.10	-		30.00	-	2.20	-	18.30	-	36.00	-	Pass
11g	6Mbps	1	1	2412	19.58	-		30.00	-	2.20	-	21.78	-	36.00	-	Pass
11g	6Mbps	1	6	2437	20.60	-		30.00	-	2.20	-	22.80	-	36.00	-	Pass
11g	6Mbps	1	11	2462	18.35	-		30.00	-	2.20	-	20.55	-	36.00	-	Pass
HT20	MCS0	1	1	2412	18.75	-		30.00	-	2.20	-	20.95	-	36.00	-	Pass
HT20	MCS0	1	6	2437	20.70	-		30.00	-	2.20	-	22.90	-	36.00	-	Pass
HT20	MCS0	1	11	2462	16.66	-		30.00	-	2.20	-	18.86	-	36.00	-	Pass

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



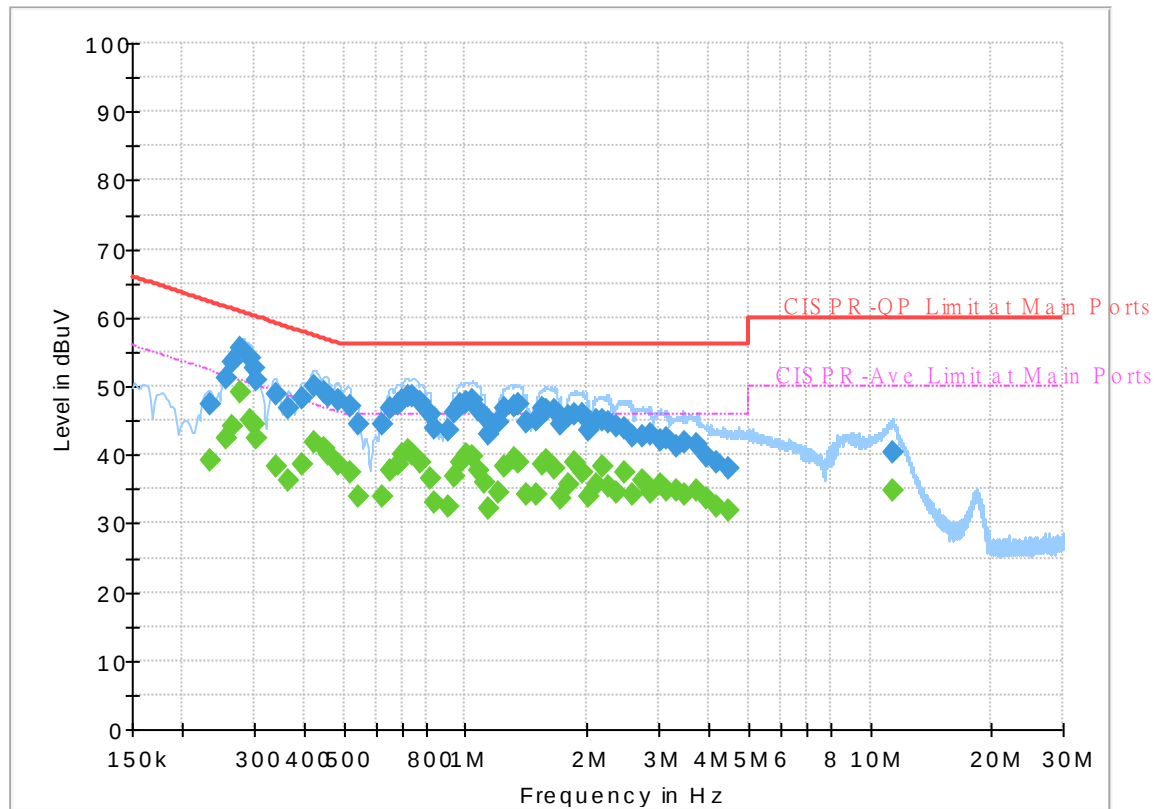
Appendix B. AC Conducted Emission Test Results

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

EUT Information

Report NO : 230116
 Test Mode : Mode 2
 Test Voltage : 240V/60Hz
 Phase : Line

Full Spectrum



Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.233250	---	39.24	52.33	13.09	L1	OFF	19.6
0.233250	47.30	---	62.33	15.03	L1	OFF	19.6
0.255840	---	42.54	51.57	9.03	L1	OFF	19.6
0.255840	51.20	---	61.57	10.37	L1	OFF	19.6
0.264750	---	44.23	51.28	7.05	L1	OFF	19.6
0.264750	53.61	---	61.28	7.67	L1	OFF	19.6
0.278250	---	49.12	50.87	1.75	L1	OFF	19.6
0.278250	55.43	---	60.87	5.44	L1	OFF	19.6
0.292740	---	45.11	50.45	5.34	L1	OFF	19.6
0.292740	54.06	---	60.45	6.39	L1	OFF	19.6
0.299670	---	44.45	50.25	5.80	L1	OFF	19.6
0.299670	52.60	---	60.25	7.65	L1	OFF	19.6
0.303000	---	42.49	50.16	7.67	L1	OFF	19.6
0.303000	50.83	---	60.16	9.33	L1	OFF	19.6
0.339000	---	38.36	49.23	10.87	L1	OFF	19.6
0.339000	48.92	---	59.23	10.31	L1	OFF	19.6
0.363750	---	36.32	48.64	12.32	L1	OFF	19.6
0.363750	46.85	---	58.64	11.79	L1	OFF	19.6
0.393000	---	38.71	48.00	9.29	L1	OFF	19.6
0.393000	48.23	---	58.00	9.77	L1	OFF	19.6
0.424500	---	41.96	47.36	5.40	L1	OFF	19.6

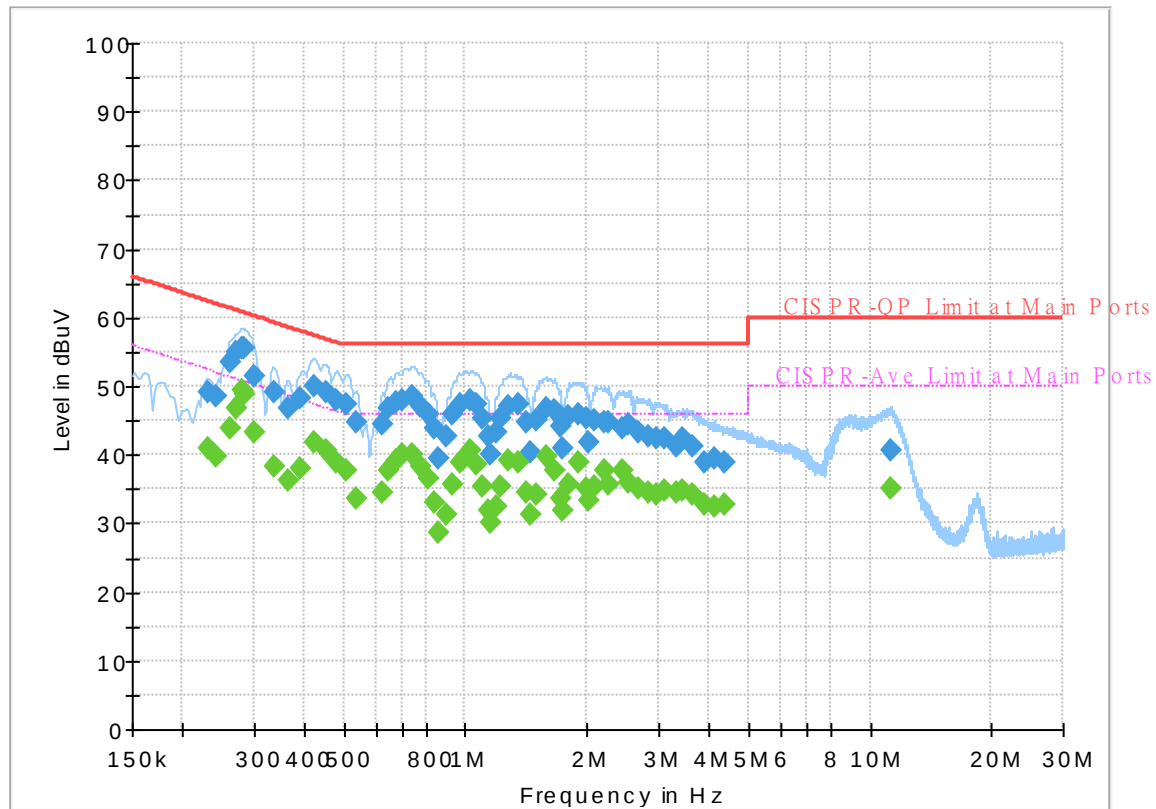
0.424500	50.01	---	57.36	7.35	L1	OFF	19.6
0.447000	---	40.82	46.93	6.11	L1	OFF	19.6
0.447000	49.19	---	56.93	7.74	L1	OFF	19.6
0.456000	---	39.92	46.77	6.85	L1	OFF	19.6
0.456000	48.61	---	56.77	8.16	L1	OFF	19.6
0.483000	---	38.69	46.29	7.60	L1	OFF	19.6
0.483000	47.86	---	56.29	8.43	L1	OFF	19.6
0.516750	---	37.31	46.00	8.69	L1	OFF	19.6
0.516750	46.93	---	56.00	9.07	L1	OFF	19.6
0.541500	---	33.98	46.00	12.02	L1	OFF	19.6
0.541500	44.57	---	56.00	11.43	L1	OFF	19.6
0.622500	---	34.06	46.00	11.94	L1	OFF	19.6
0.622500	44.32	---	56.00	11.68	L1	OFF	19.6
0.649500	---	37.76	46.00	8.24	L1	OFF	19.6
0.649500	46.81	---	56.00	9.19	L1	OFF	19.6
0.681000	---	38.47	46.00	7.53	L1	OFF	19.6
0.681000	47.49	---	56.00	8.51	L1	OFF	19.6
0.699000	---	40.01	46.00	5.99	L1	OFF	19.6
0.699000	48.04	---	56.00	7.96	L1	OFF	19.6
0.721500	---	40.54	46.00	5.46	L1	OFF	19.6
0.721500	48.47	---	56.00	7.53	L1	OFF	19.6
0.737250	---	40.05	46.00	5.95	L1	OFF	19.6
0.737250	48.51	---	56.00	7.49	L1	OFF	19.6
0.771000	---	38.89	46.00	7.11	L1	OFF	19.6
0.771000	47.60	---	56.00	8.40	L1	OFF	19.6
0.816000	---	36.46	46.00	9.54	L1	OFF	19.6
0.816000	45.77	---	56.00	10.23	L1	OFF	19.6
0.840750	---	33.16	46.00	12.84	L1	OFF	19.6
0.840750	43.84	---	56.00	12.16	L1	OFF	19.6
0.908250	---	32.47	46.00	13.53	L1	OFF	19.6
0.908250	43.46	---	56.00	12.54	L1	OFF	19.6
0.939750	---	36.70	46.00	9.30	L1	OFF	19.6
0.939750	46.05	---	56.00	9.95	L1	OFF	19.6
0.966750	---	38.98	46.00	7.02	L1	OFF	19.6
0.966750	47.31	---	56.00	8.69	L1	OFF	19.6
1.005000	---	39.94	46.00	6.06	L1	OFF	19.6
1.005000	47.78	---	56.00	8.22	L1	OFF	19.6
1.041000	---	39.81	46.00	6.19	L1	OFF	19.6
1.041000	47.81	---	56.00	8.19	L1	OFF	19.6
1.077000	---	37.60	46.00	8.40	L1	OFF	19.6
1.077000	46.60	---	56.00	9.40	L1	OFF	19.6
1.110750	---	35.86	46.00	10.14	L1	OFF	19.6
1.110750	45.55	---	56.00	10.45	L1	OFF	19.6
1.140000	---	32.22	46.00	13.78	L1	OFF	19.6
1.140000	43.07	---	56.00	12.93	L1	OFF	19.6
1.209750	---	34.46	46.00	11.54	L1	OFF	19.6
1.209750	44.77	---	56.00	11.23	L1	OFF	19.6
1.252500	---	38.18	46.00	7.82	L1	OFF	19.6
1.252500	46.72	---	56.00	9.28	L1	OFF	19.6
1.320000	---	39.57	46.00	6.43	L1	OFF	19.6
1.320000	47.01	---	56.00	8.99	L1	OFF	19.6
1.358250	---	38.90	46.00	7.10	L1	OFF	19.6
1.358250	47.23	---	56.00	8.77	L1	OFF	19.6
1.412250	---	34.09	46.00	11.91	L1	OFF	19.6
1.412250	44.85	---	56.00	11.15	L1	OFF	19.6
1.497750	---	34.26	46.00	11.74	L1	OFF	19.6
1.497750	45.07	---	56.00	10.93	L1	OFF	19.6
1.549500	---	38.61	46.00	7.39	L1	OFF	19.6
1.549500	46.80	---	56.00	9.20	L1	OFF	19.6
1.587750	---	39.13	46.00	6.87	L1	OFF	19.6
1.587750	46.55	---	56.00	9.45	L1	OFF	19.6
1.657500	---	38.04	46.00	7.96	L1	OFF	19.6
1.657500	46.59	---	56.00	9.41	L1	OFF	19.6
1.711500	---	33.76	46.00	12.24	L1	OFF	19.6
1.711500	44.34	---	56.00	11.66	L1	OFF	19.6
1.806000	---	35.76	46.00	10.24	L1	OFF	19.6
1.806000	45.69	---	56.00	10.31	L1	OFF	19.6
1.869000	---	38.85	46.00	7.15	L1	OFF	19.6
1.869000	45.83	---	56.00	10.17	L1	OFF	19.6
1.947750	---	37.44	46.00	8.56	L1	OFF	19.6
1.947750	46.03	---	56.00	9.97	L1	OFF	19.6

2.008500	---	33.98	46.00	12.02	L1	OFF	19.6
2.008500	43.60	---	56.00	12.40	L1	OFF	19.6
2.103000	---	35.79	46.00	10.21	L1	OFF	19.6
2.103000	44.94	---	56.00	11.06	L1	OFF	19.6
2.188500	---	38.40	46.00	7.60	L1	OFF	19.6
2.188500	44.94	---	56.00	11.06	L1	OFF	19.6
2.256000	---	35.47	46.00	10.53	L1	OFF	19.6
2.256000	44.83	---	56.00	11.17	L1	OFF	19.6
2.375250	---	34.61	46.00	11.39	L1	OFF	19.6
2.375250	44.27	---	56.00	11.73	L1	OFF	19.6
2.472000	---	37.47	46.00	8.53	L1	OFF	19.6
2.472000	43.93	---	56.00	12.07	L1	OFF	19.6
2.582250	---	34.17	46.00	11.83	L1	OFF	19.6
2.582250	42.62	---	56.00	13.38	L1	OFF	19.6
2.748750	---	36.29	46.00	9.71	L1	OFF	19.6
2.748750	42.71	---	56.00	13.29	L1	OFF	19.6
2.854500	---	34.63	46.00	11.37	L1	OFF	19.6
2.854500	42.93	---	56.00	13.07	L1	OFF	19.6
3.030000	---	35.59	46.00	10.41	L1	OFF	19.6
3.030000	42.05	---	56.00	13.95	L1	OFF	19.6
3.153750	---	34.82	46.00	11.18	L1	OFF	19.6
3.153750	42.48	---	56.00	13.52	L1	OFF	19.6
3.327000	---	34.81	46.00	11.19	L1	OFF	19.6
3.327000	41.18	---	56.00	14.82	L1	OFF	19.6
3.477750	---	34.34	46.00	11.66	L1	OFF	19.6
3.477750	41.77	---	56.00	14.23	L1	OFF	19.6
3.723000	---	34.90	46.00	11.10	L1	OFF	19.6
3.723000	41.48	---	56.00	14.52	L1	OFF	19.6
3.934500	---	33.55	46.00	12.45	L1	OFF	19.6
3.934500	39.81	---	56.00	16.19	L1	OFF	19.6
4.161750	---	32.57	46.00	13.43	L1	OFF	19.6
4.161750	38.76	---	56.00	17.24	L1	OFF	19.6
4.452000	---	31.87	46.00	14.13	L1	OFF	19.7
4.452000	38.14	---	56.00	17.86	L1	OFF	19.7
11.415750	---	34.78	50.00	15.22	L1	OFF	19.8
11.415750	40.49	---	60.00	19.51	L1	OFF	19.8

EUT Information

Report NO : 230116
 Test Mode : Mode 2
 Test Voltage : 240V/60Hz
 Phase : Neutral

Full Spectrum



Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.231000	---	40.83	52.41	11.58	N	OFF	19.6
0.231000	49.17	---	62.41	13.24	N	OFF	19.6
0.242250	---	39.72	52.02	12.30	N	OFF	19.6
0.242250	48.57	---	62.02	13.45	N	OFF	19.6
0.262680	---	43.94	51.35	7.41	N	OFF	19.6
0.262680	53.42	---	61.35	7.93	N	OFF	19.6
0.271500	---	46.80	51.07	4.27	N	OFF	19.6
0.271500	54.83	---	61.07	6.24	N	OFF	19.6
0.279420	---	49.44	50.83	1.39	N	OFF	19.6
0.279420	55.54	---	60.83	5.29	N	OFF	19.6
0.282750	---	48.76	50.74	1.98	N	OFF	19.6
0.282750	55.41	---	60.74	5.33	N	OFF	19.6
0.300930	---	43.19	50.22	7.03	N	OFF	19.6
0.300930	51.47	---	60.22	8.75	N	OFF	19.6
0.336750	---	38.37	49.28	10.91	N	OFF	19.6
0.336750	49.09	---	59.28	10.19	N	OFF	19.6
0.363750	---	36.22	48.64	12.42	N	OFF	19.6
0.363750	46.79	---	58.64	11.85	N	OFF	19.6
0.390750	---	38.04	48.05	10.01	N	OFF	19.6
0.390750	48.22	---	58.05	9.83	N	OFF	19.6
0.422250	---	41.78	47.40	5.62	N	OFF	19.6

0.422250	50.10	---	57.40	7.30	N	OFF	19.6
0.451500	---	40.70	46.85	6.15	N	OFF	19.6
0.451500	49.10	---	56.85	7.75	N	OFF	19.6
0.480750	---	38.76	46.33	7.57	N	OFF	19.6
0.480750	47.93	---	56.33	8.40	N	OFF	19.6
0.507750	---	37.79	46.00	8.21	N	OFF	19.6
0.507750	47.51	---	56.00	8.49	N	OFF	19.6
0.537000	---	33.68	46.00	12.32	N	OFF	19.6
0.537000	44.63	---	56.00	11.37	N	OFF	19.6
0.622500	---	34.40	46.00	11.60	N	OFF	19.6
0.622500	44.31	---	56.00	11.69	N	OFF	19.6
0.647250	---	37.60	46.00	8.40	N	OFF	19.6
0.647250	46.80	---	56.00	9.20	N	OFF	19.6
0.672000	---	39.23	46.00	6.77	N	OFF	19.6
0.672000	47.63	---	56.00	8.37	N	OFF	19.6
0.696750	---	39.99	46.00	6.01	N	OFF	19.6
0.696750	47.99	---	56.00	8.01	N	OFF	19.6
0.737250	---	40.09	46.00	5.91	N	OFF	19.6
0.737250	48.50	---	56.00	7.50	N	OFF	19.6
0.777750	---	38.31	46.00	7.69	N	OFF	19.6
0.777750	47.11	---	56.00	8.89	N	OFF	19.6
0.809250	---	36.49	46.00	9.51	N	OFF	19.6
0.809250	45.85	---	56.00	10.15	N	OFF	19.6
0.836250	---	33.17	46.00	12.83	N	OFF	19.6
0.836250	43.97	---	56.00	12.03	N	OFF	19.6
0.856500	---	28.79	46.00	17.21	N	OFF	19.6
0.856500	39.59	---	56.00	16.41	N	OFF	19.6
0.899250	---	31.16	46.00	14.84	N	OFF	19.6
0.899250	42.79	---	56.00	13.21	N	OFF	19.6
0.928500	---	35.56	46.00	10.44	N	OFF	19.6
0.928500	45.88	---	56.00	10.12	N	OFF	19.6
0.971250	---	39.03	46.00	6.97	N	OFF	19.6
0.971250	47.44	---	56.00	8.56	N	OFF	19.6
1.029750	---	40.61	46.00	5.39	N	OFF	19.6
1.029750	48.00	---	56.00	8.00	N	OFF	19.6
1.068000	---	38.70	46.00	7.30	N	OFF	19.6
1.068000	47.23	---	56.00	8.77	N	OFF	19.6
1.101750	---	35.24	46.00	10.76	N	OFF	19.6
1.101750	45.19	---	56.00	10.81	N	OFF	19.6
1.140000	---	31.99	46.00	14.01	N	OFF	19.6
1.140000	42.78	---	56.00	13.22	N	OFF	19.6
1.155750	---	30.09	46.00	15.91	N	OFF	19.6
1.155750	40.05	---	56.00	15.95	N	OFF	19.6
1.194000	---	32.40	46.00	13.60	N	OFF	19.6
1.194000	43.35	---	56.00	12.65	N	OFF	19.6
1.216500	---	35.52	46.00	10.48	N	OFF	19.6
1.216500	45.43	---	56.00	10.57	N	OFF	19.6
1.272750	---	39.09	46.00	6.91	N	OFF	19.6
1.272750	47.05	---	56.00	8.95	N	OFF	19.6
1.358250	---	38.96	46.00	7.04	N	OFF	19.6
1.358250	47.28	---	56.00	8.72	N	OFF	19.6
1.410000	---	34.49	46.00	11.51	N	OFF	19.6
1.410000	44.76	---	56.00	11.24	N	OFF	19.6
1.450500	---	31.25	46.00	14.75	N	OFF	19.6
1.450500	40.33	---	56.00	15.67	N	OFF	19.6
1.497750	---	34.28	46.00	11.72	N	OFF	19.6
1.497750	45.17	---	56.00	10.83	N	OFF	19.6
1.578750	---	39.80	46.00	6.20	N	OFF	19.6
1.578750	46.74	---	56.00	9.26	N	OFF	19.6
1.657500	---	37.78	46.00	8.22	N	OFF	19.6
1.657500	46.57	---	56.00	9.43	N	OFF	19.6
1.711500	---	33.57	46.00	12.43	N	OFF	19.6
1.711500	44.14	---	56.00	11.86	N	OFF	19.6
1.743000	---	31.90	46.00	14.10	N	OFF	19.6
1.743000	41.07	---	56.00	14.93	N	OFF	19.6
1.806000	---	35.72	46.00	10.28	N	OFF	19.6
1.806000	45.66	---	56.00	10.34	N	OFF	19.6
1.893750	---	39.03	46.00	6.97	N	OFF	19.6
1.893750	45.82	---	56.00	10.18	N	OFF	19.6
1.981500	---	35.09	46.00	10.91	N	OFF	19.6
1.981500	45.18	---	56.00	10.82	N	OFF	19.6

2.024250	---	33.34	46.00	12.66	N	OFF	19.6
2.024250	41.84	---	56.00	14.16	N	OFF	19.6
2.091750	---	35.33	46.00	10.67	N	OFF	19.6
2.091750	45.17	---	56.00	10.83	N	OFF	19.6
2.206500	---	37.68	46.00	8.32	N	OFF	19.6
2.206500	44.87	---	56.00	11.13	N	OFF	19.6
2.251500	---	35.57	46.00	10.43	N	OFF	19.6
2.251500	44.68	---	56.00	11.32	N	OFF	19.6
2.442750	---	37.61	46.00	8.39	N	OFF	19.6
2.442750	43.97	---	56.00	12.03	N	OFF	19.6
2.526000	---	35.83	46.00	10.17	N	OFF	19.6
2.526000	44.45	---	56.00	11.55	N	OFF	19.6
2.688000	---	35.02	46.00	10.98	N	OFF	19.6
2.688000	43.26	---	56.00	12.74	N	OFF	19.6
2.852250	---	34.41	46.00	11.59	N	OFF	19.6
2.852250	42.81	---	56.00	13.19	N	OFF	19.6
2.964750	---	34.29	46.00	11.71	N	OFF	19.6
2.964750	42.36	---	56.00	13.64	N	OFF	19.6
3.124500	---	34.83	46.00	11.17	N	OFF	19.6
3.124500	42.35	---	56.00	13.65	N	OFF	19.6
3.318000	---	34.39	46.00	11.61	N	OFF	19.6
3.318000	41.24	---	56.00	14.76	N	OFF	19.6
3.450750	---	34.81	46.00	11.19	N	OFF	19.6
3.450750	42.29	---	56.00	13.71	N	OFF	19.6
3.644250	---	34.15	46.00	11.85	N	OFF	19.6
3.644250	41.13	---	56.00	14.87	N	OFF	19.6
3.887250	---	32.62	46.00	13.38	N	OFF	19.6
3.887250	39.02	---	56.00	16.98	N	OFF	19.6
4.143750	---	32.57	46.00	13.43	N	OFF	19.6
4.143750	39.35	---	56.00	16.65	N	OFF	19.6
4.393500	---	32.76	46.00	13.24	N	OFF	19.7
4.393500	38.80	---	56.00	17.20	N	OFF	19.7
11.267250	---	35.10	50.00	14.90	N	OFF	19.8
11.267250	40.51	---	60.00	19.49	N	OFF	19.8



Appendix C. Radiated Spurious Emission

Test Engineer :	Theodore, Fu Chen, Troye Hsieh	Temperature :	20.1~21.7°C
		Relative Humidity :	56.1~67.5%

2.4GHz 2412~2462MHz

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.
1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11b CH 01 2412MHz		2382.24	52.09	-21.91	74	41.33	27.43	17.28	33.95	267	344	P	H
		2389.17	41.82	-12.18	54	31.02	27.46	17.29	33.95	267	344	A	H
	*	2412	109.65	-	-	98.72	27.55	17.32	33.94	267	344	P	H
	*	2412	106.47	-	-	95.54	27.55	17.32	33.94	267	344	A	H
													H
													H
		2379.3	52.35	-21.65	74	41.61	27.42	17.27	33.95	170	65	P	V
		2388.855	41.15	-12.85	54	30.35	27.46	17.29	33.95	170	65	A	V
	*	2412	100.74	-	-	89.81	27.55	17.32	33.94	170	65	P	V
	*	2412	97.74	-	-	86.81	27.55	17.32	33.94	170	65	A	V
													V
													V
802.11b CH 06 2437MHz		2387.92	52.46	-21.54	74	41.68	27.45	17.28	33.95	262	338	P	H
		2389.2	41.23	-12.77	54	30.43	27.46	17.29	33.95	262	338	A	H
	*	2437	108.21	-	-	97.14	27.65	17.36	33.94	262	338	P	H
	*	2437	105.12	-	-	94.05	27.65	17.36	33.94	262	338	A	H
		2493.04	52.96	-21.04	74	41.65	27.79	17.44	33.92	262	338	P	H
		2499.84	42.01	-11.99	54	30.68	27.8	17.45	33.92	262	338	A	H
		2370.8	52.63	-21.37	74	41.94	27.38	17.26	33.95	149	67	P	V
		2386.48	41.05	-12.95	54	30.27	27.45	17.28	33.95	149	67	A	V
	*	2437	100.25	-	-	89.18	27.65	17.36	33.94	149	67	P	V
	*	2437	97.12	-	-	86.05	27.65	17.36	33.94	149	67	A	V
		2483.6	52.45	-21.55	74	41.17	27.77	17.43	33.92	149	67	P	V
		2499.6	41.68	-12.32	54	30.35	27.8	17.45	33.92	149	67	A	V



WIFI Ant. 1	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	*	2462	104.81	-	-	93.63	27.72	17.39	33.93	257	338	P	H
	*	2462	101.67	-	-	90.49	27.72	17.39	33.93	257	338	A	H
		2488.52	53.81	-20.19	74	42.52	27.78	17.43	33.92	257	338	P	H
		2486.68	42.65	-11.35	54	31.37	27.77	17.43	33.92	257	338	A	H
													H
													H
	*	2462	97.46	-	-	86.28	27.72	17.39	33.93	114	66	P	V
	*	2462	94.28	-	-	83.1	27.72	17.39	33.93	114	66	A	V
		2484.72	52.67	-21.33	74	41.39	27.77	17.43	33.92	114	66	P	V
		2486.72	41.73	-12.27	54	30.45	27.77	17.43	33.92	114	66	A	V
													V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



2.4GHz 2412~2462MHz

WIFI 802.11b (Harmonic @ 3m)

WIFI Ant. 1	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	49.47	-24.53	74	64.12	32.34	11.47	58.46	100	2	P	H
		4824	46.76	-7.24	54	61.41	32.34	11.47	58.46	100	2	A	H
		11460	46.46	-27.54	74	51.82	39.1	17.59	62.05	-	-	P	H
		14475	46.43	-27.57	74	48.08	40.57	20.81	63.03	-	-	P	H
		18000	49.29	-24.71	74	40.25	42.6	23.04	56.6	-	-	P	H
		18000	42.18	-11.82	54	33.14	42.6	23.04	56.6	-	-	A	H
													H
													H
													H
													H
													H
													H
		4824	46.56	-27.44	74	61.21	32.34	11.47	58.46	100	332	P	V
		4824	42.57	-11.43	54	57.22	32.34	11.47	58.46	100	332	A	V
		12405	46.5	-27.5	74	52.55	39.29	18.23	63.57	-	-	P	V
		14490	47.48	-26.52	74	49.07	40.59	20.83	63.01	-	-	P	V
		17970	49.18	-24.82	74	40.45	42.39	23.01	56.67	-	-	P	V
		17970	43.77	-10.23	54	35.04	42.39	23.01	56.67	-	-	A	V
													V
													V
													V
													V
													V
													V



WIFI Ant. 1	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 06 2437MHz		4874	50.05	-23.95	74	64.29	32.6	11.63	58.47	100	342	P	H
		4874	47.44	-6.56	54	61.68	32.6	11.63	58.47	100	342	A	H
		7311	42.5	-31.5	74	51.21	37.06	13.41	59.18	-	-	P	H
		11025	48.19	-25.81	74	53.4	38.9	17.42	61.53	-	-	P	H
		11025	35.89	-18.11	54	41.1	38.9	17.42	61.53	-	-	A	H
		14490	47.68	-26.32	74	49.27	40.59	20.83	63.01	-	-	P	H
		17985	49	-25	74	40.12	42.49	23.03	56.64	-	-	P	H
		17985	41.92	-12.08	54	33.04	42.49	23.03	56.64	-	-	A	H
													H
													H
													H
													H
		4874	47.05	-26.95	74	61.29	32.6	11.63	58.47	100	332	P	V
		4874	43.77	-10.23	54	58.01	32.6	11.63	58.47	100	332	A	V
		7311	42.35	-31.65	74	51.06	37.06	13.41	59.18	-	-	P	V
		12090	47.23	-26.77	74	53.29	39.17	17.9	63.13	-	-	P	V
		14475	48.32	-25.68	74	49.97	40.57	20.81	63.03	-	-	P	V
		14475	38.19	-15.81	54	39.84	40.57	20.81	63.03	-	-	A	V
		18000	48.7	-25.3	74	39.66	42.6	23.04	56.6	-	-	P	V
		18000	42.2	-11.8	54	33.16	42.6	23.04	56.6	-	-	A	V
													V
													V
													V
													V

WIFI Ant. 1	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	46.32	-27.68	74	60.18	32.84	11.78	58.48	100	345	P	H
		4924	42.52	-11.48	54	56.38	32.84	11.78	58.48	100	345	A	H
		7386	40.93	-33.07	74	49.74	36.68	13.66	59.15	-	-	P	H
		12645	47.02	-26.98	74	52.49	39.54	18.49	63.5	-	-	P	H
		14475	47.68	-26.32	74	49.33	40.57	20.81	63.03	-	-	P	H
		17985	48.68	-25.32	74	39.8	42.49	23.03	56.64	-	-	P	H
		17985	39.31	-14.69	54	30.43	42.49	23.03	56.64	-	-	A	H
													H
													H
													H
													H
													H
		4924	43.59	-30.41	74	57.45	32.84	11.78	58.48	100	334	P	V
		4924	38.32	-15.68	54	52.18	32.84	11.78	58.48	100	334	A	V
		7386	41.22	-32.78	74	50.03	36.68	13.66	59.15	-	-	P	V
		11760	46.48	-27.52	74	52.77	38.58	17.7	62.57	-	-	P	V
		14490	46.9	-27.1	74	48.49	40.59	20.83	63.01	-	-	P	V
		17985	48.82	-25.18	74	39.94	42.49	23.03	56.64	-	-	P	V
		17985	39.16	-14.84	54	30.28	42.49	23.03	56.64	-	-	A	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.												
	4. The emission level close to 18GHz is checked that the average emission level is noise floor only.												



2.4GHz 2412~2462MHz

WIFI 802.11g (Band Edge @ 3m)

WIFI Ant. 1	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		2389.695	56.98	-17.02	74	46.18	27.46	17.29	33.95	268	344	P	H
		2390	44.31	-9.69	54	33.51	27.46	17.29	33.95	268	344	A	H
	*	2412	107.11	-	-	96.18	27.55	17.32	33.94	268	344	P	H
	*	2412	99.47	-	-	88.54	27.55	17.32	33.94	268	344	A	H
													H
													H
		2360.715	52.7	-21.3	74	42.07	27.34	17.25	33.96	170	64	P	V
		2390	41.62	-12.38	54	30.82	27.46	17.29	33.95	170	64	A	V
	*	2412	98.86	-	-	87.93	27.55	17.32	33.94	170	64	P	V
	*	2412	91.21	-	-	80.28	27.55	17.32	33.94	170	64	A	V
													V
													V
802.11g CH 06 2437MHz		2386.96	53.16	-20.84	74	42.38	27.45	17.28	33.95	259	337	P	H
		2389.84	41.37	-12.63	54	30.57	27.46	17.29	33.95	259	337	A	H
	*	2437	106.5	-	-	95.43	27.65	17.36	33.94	259	337	P	H
	*	2437	98.74	-	-	87.67	27.65	17.36	33.94	259	337	A	H
		2488.48	53.57	-20.43	74	42.28	27.78	17.43	33.92	259	337	P	H
		2496.72	42.52	-11.48	54	31.2	27.79	17.45	33.92	259	337	A	H
		2363.44	52.88	-21.12	74	42.24	27.35	17.25	33.96	154	66	P	V
		2384.72	41.01	-12.99	54	30.24	27.44	17.28	33.95	154	66	A	V
	*	2437	98.9	-	-	87.83	27.65	17.36	33.94	154	66	P	V
	*	2437	91.34	-	-	80.27	27.65	17.36	33.94	154	66	A	V
		2486.24	52.9	-21.1	74	41.62	27.77	17.43	33.92	154	66	P	V
		2499.28	41.73	-12.27	54	30.4	27.8	17.45	33.92	154	66	A	V



WIFI Ant. 1	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	*	2462	101.76	-	-	90.58	27.72	17.39	33.93	250	338	P	H
	*	2462	94.58	-	-	83.4	27.72	17.39	33.93	250	338	A	H
		2492.2	62.88	-11.12	74	51.58	27.78	17.44	33.92	250	338	P	H
		2483.52	44.96	-9.04	54	33.68	27.77	17.43	33.92	250	338	A	H
													H
													H
	*	2462	95.21	-	-	84.03	27.72	17.39	33.93	150	66	P	V
	*	2462	87.6	-	-	76.42	27.72	17.39	33.93	150	66	A	V
		2483.72	53.01	-20.99	74	41.73	27.77	17.43	33.92	150	66	P	V
		2483.52	42.03	-11.97	54	30.75	27.77	17.43	33.92	150	66	A	V
													V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



2.4GHz 2412~2462MHz

WIFI 802.11g (Harmonic @ 3m)

WIFI Ant. 1	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	42.98	-31.02	74	57.63	32.34	11.47	58.46	100	360	P	H
		4824	32.29	-21.71	54	46.94	32.34	11.47	58.46	100	360	A	H
		11610	47.81	-26.19	74	53.76	38.7	17.65	62.3	-	-	P	H
		14490	48.09	-25.91	74	49.68	40.59	20.83	63.01	-	-	P	H
		14490	37.62	-16.38	54	39.21	40.59	20.83	63.01	-	-	A	H
		17985	48.73	-25.27	74	39.85	42.49	23.03	56.64	-	-	P	H
		17985	39.06	-14.94	54	30.18	42.49	23.03	56.64	-	-	A	H
													H
													H
													H
													H
													H
		4824	40.94	-33.06	74	55.59	32.34	11.47	58.46	213	352	P	V
		4824	30.52	-23.48	54	45.17	32.34	11.47	58.46	213	352	A	V
		11370	46.98	-27.02	74	52.23	39.13	17.56	61.94	-	-	P	V
		14490	48.47	-25.53	74	50.06	40.59	20.83	63.01	-	-	P	V
		14490	37.42	-16.58	54	39.01	40.59	20.83	63.01	-	-	A	V
		17925	48.75	-25.25	74	40.48	42.08	22.97	56.78	-	-	P	V
		17925	38.35	-15.65	54	30.08	42.08	22.97	56.78	-	-	A	V
													V
													V
													V
													V
													V



WIFI Ant. 1	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 06 2437MHz		4874	46.15	-27.85	74	60.39	32.6	11.63	58.47	100	360	P	H
		4874	34.22	-19.78	54	48.46	32.6	11.63	58.47	100	360	A	H
		7311	42.03	-31.97	74	50.74	37.06	13.41	59.18	-	-	P	H
		11025	47.17	-26.83	74	52.38	38.9	17.42	61.53	-	-	P	H
		14475	46.95	-27.05	74	48.6	40.57	20.81	63.03	-	-	P	H
		18000	48.9	-25.1	74	39.86	42.6	23.04	56.6	-	-	P	H
		18000	39.49	-14.51	54	30.45	42.6	23.04	56.6	-	-	A	H
													H
													H
													H
													H
													H
		4874	40.9	-33.1	74	55.14	32.6	11.63	58.47	-	-	P	V
		7311	41.48	-32.52	74	50.19	37.06	13.41	59.18	-	-	P	V
		12660	47.09	-26.91	74	52.51	39.56	18.5	63.48	-	-	P	V
		14500	47.37	-26.63	74	48.93	40.6	20.84	63	-	-	P	V
		17970	49.21	-24.79	74	40.48	42.39	23.01	56.67	-	-	P	V
		17970	38.46	-15.54	54	29.73	42.39	23.01	56.67	-	-	A	V
													V
													V
													V
													V
													V
													V

WIFI Ant. 1	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	43.48	-30.52	74	57.34	32.84	11.78	58.48	100	344	P	H	
		4924	31.99	-22.01	54	45.85	32.84	11.78	58.48	100	344	A	H	
		7386	42.04	-31.96	74	50.85	36.68	13.66	59.15	-	-	P	H	
		11055	48.28	-25.72	74	53.52	38.9	17.43	61.57	-	-	P	H	
		11055	35.86	-18.14	54	41.1	38.9	17.43	61.57	-	-	A	H	
		14475	47.86	-26.14	74	49.51	40.57	20.81	63.03	-	-	P	H	
		17985	49.12	-24.88	74	40.24	42.49	23.03	56.64	-	-	P	H	
		17985	39.03	-14.97	54	30.15	42.49	23.03	56.64	-	-	A	H	
														H
														H
														H
														H
		4924	40.23	-33.77	74	54.09	32.84	11.78	58.48	-	-	P	V	
		7386	41.54	-32.46	74	50.35	36.68	13.66	59.15	-	-	P	V	
		11985	46.9	-27.1	74	53.21	38.87	17.79	62.97	-	-	P	V	
		14475	48.83	-25.17	74	50.48	40.57	20.81	63.03	-	-	P	V	
		14475	37.37	-16.63	54	39.02	40.57	20.81	63.03	-	-	A	V	
		17925	49.18	-24.82	74	40.91	42.08	22.97	56.78	-	-	P	V	
		17925	39.04	-14.96	54	30.77	42.08	22.97	56.78	-	-	A	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.													
	4. The emission level close to 18GHz is checked that the average emission level is noise floor only.													



2.4GHz 2412~2462MHz

WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI Ant. 1	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)
802.11n HT20 CH 01 2412MHz		2389.905	56.82	-17.18	74	46.02	27.46	17.29	33.95	269	344	P	H
		2390	44.55	-9.45	54	33.75	27.46	17.29	33.95	269	344	A	H
	*	2412	106.18	-	-	95.25	27.55	17.32	33.94	269	344	P	H
	*	2412	98.35	-	-	87.42	27.55	17.32	33.94	269	344	A	H
													H
													H
		2376.045	52.12	-21.88	74	41.4	27.4	17.27	33.95	169	65	P	V
		2389.905	41.7	-12.3	54	30.9	27.46	17.29	33.95	169	65	A	V
	*	2412	97.91	-	-	86.98	27.55	17.32	33.94	169	65	P	V
	*	2412	90.1	-	-	79.17	27.55	17.32	33.94	169	65	A	V
													V
													V
802.11n HT20 CH 06 2437MHz		2381.52	52.28	-21.72	74	41.52	27.43	17.28	33.95	250	337	P	H
		2389.36	41.58	-12.42	54	30.78	27.46	17.29	33.95	250	337	A	H
	*	2437	107.57	-	-	96.5	27.65	17.36	33.94	250	337	P	H
	*	2437	99.81	-	-	88.74	27.65	17.36	33.94	250	337	A	H
		2497.68	53.72	-20.28	74	42.39	27.8	17.45	33.92	250	337	P	H
		2497.36	42.58	-11.42	54	31.26	27.79	17.45	33.92	250	337	A	H
		2388.08	52.08	-21.92	74	41.3	27.45	17.28	33.95	154	67	P	V
		2385.52	41.15	-12.85	54	30.38	27.44	17.28	33.95	154	67	A	V
	*	2437	99.91	-	-	88.84	27.65	17.36	33.94	154	67	P	V
	*	2437	92.2	-	-	81.13	27.65	17.36	33.94	154	67	A	V
		2487.6	52.35	-21.65	74	41.06	27.78	17.43	33.92	154	67	P	V
		2498.24	41.82	-12.18	54	30.49	27.8	17.45	33.92	154	67	A	V



WIFI Ant. 1	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)
802.11n HT20 CH 11 2462MHz	*	2462	100.95	-	-	89.77	27.72	17.39	33.93	256	340	P	H
	*	2462	93.24	-	-	82.06	27.72	17.39	33.93	256	340	A	H
		2483.72	58.48	-15.52	74	47.2	27.77	17.43	33.92	256	340	P	H
		2483.52	44.02	-9.98	54	32.74	27.77	17.43	33.92	256	340	A	H
													H
													H
	*	2462	93.27	-	-	82.09	27.72	17.39	33.93	151	65	P	V
	*	2462	85.45	-	-	74.27	27.72	17.39	33.93	151	65	A	V
		2490.88	53.54	-20.46	74	42.24	27.78	17.44	33.92	151	65	P	V
		2483.56	41.88	-12.12	54	30.6	27.77	17.43	33.92	151	65	A	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

**2.4GHz 2412~2462MHz****WIFI 802.11n HT20 (Harmonic @ 3m)**

WIFI Ant. 1	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)
802.11n HT20 CH 01 2412MHz		4824	40.69	-33.31	74	55.34	32.34	11.47	58.46	-	-	P	H
		11310	46.88	-27.12	74	52.03	39.19	17.53	61.87	-	-	P	H
		14490	47.27	-26.73	74	48.86	40.59	20.83	63.01	-	-	P	H
		17985	49.12	-24.88	74	40.24	42.49	23.03	56.64	-	-	P	H
		17985	38.99	-15.01	54	30.11	42.49	23.03	56.64	-	-	A	H
													H
		4824	40.7	-33.3	74	55.35	32.34	11.47	58.46	-	-	P	V
		11505	47.03	-26.97	74	52.45	39.08	17.61	62.11	-	-	P	V
		14490	47.55	-26.45	74	49.14	40.59	20.83	63.01	-	-	P	V
		18000	50.43	-23.57	74	41.39	42.6	23.04	56.6	-	-	P	V
		18000	39.26	-14.74	54	30.22	42.6	23.04	56.6	-	-	A	V
													V



WIFI Ant. 1	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)
802.11n HT20 CH 06 2437MHz		4874	48.47	-25.53	74	62.71	32.6	11.63	58.47	122	343	P	H
		4874	36.34	-17.66	54	50.58	32.6	11.63	58.47	122	343	A	H
		7311	42.95	-31.05	74	51.66	37.06	13.41	59.18	-	-	P	H
		10860	47.49	-26.51	74	52.61	38.98	17.23	61.33	-	-	P	H
		14490	47.71	-26.29	74	49.3	40.59	20.83	63.01	-	-	P	H
		18000	50	-24	74	40.96	42.6	23.04	56.6	-	-	P	H
		18000	39.05	-14.95	54	30.01	42.6	23.04	56.6	-	-	A	H
													H
													H
													H
													H
													H
		4874	44.19	-29.81	74	58.43	32.6	11.63	58.47	100	334	P	V
		4874	32.56	-21.44	54	46.8	32.6	11.63	58.47	100	334	A	V
		7311	42.09	-31.91	74	50.8	37.06	13.41	59.18	-	-	P	V
		11130	47.44	-26.56	74	52.68	38.96	17.46	61.66	-	-	P	V
		14490	47.65	-26.35	74	49.24	40.59	20.83	63.01	-	-	P	V
		17985	48.87	-25.13	74	39.99	42.49	23.03	56.64	-	-	P	V
		17985	39.1	-14.9	54	30.22	42.49	23.03	56.64	-	-	A	V
													V
													V
													V
													V
													V

WIFI Ant. 1	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)
802.11n HT20 CH 11 2462MHz		4924	41.46	-32.54	74	55.32	32.84	11.78	58.48	-	-	P	H
		7386	40.71	-33.29	74	49.52	36.68	13.66	59.15	-	-	P	H
		10965	47.79	-26.21	74	52.98	38.9	17.37	61.46	-	-	P	H
		14490	47.68	-26.32	74	49.27	40.59	20.83	63.01	-	-	P	H
		18000	49.25	-24.75	74	40.21	42.6	23.04	56.6	-	-	P	H
		18000	39.3	-14.7	54	30.26	42.6	23.04	56.6	-	-	A	H
													H
													H
													H
													H
													H
													H
													H
		4924	41.35	-32.65	74	55.21	32.84	11.78	58.48	-	-	P	V
		7386	41.17	-32.83	74	49.98	36.68	13.66	59.15	-	-	P	V
		10815	47.05	-26.95	74	52.1	39.07	17.16	61.28	-	-	P	V
		14490	47.98	-26.02	74	49.57	40.59	20.83	63.01	-	-	P	V
		18000	48.97	-25.03	74	39.93	42.6	23.04	56.6	-	-	P	V
		18000	39.36	-14.64	54	30.32	42.6	23.04	56.6	-	-	A	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.												
	4. The emission level close to 18GHz is checked that the average emission level is noise floor only.												

Emission above 18GHz

2.4GHz WIFI 802.11b (SHF)

WIFI	Note	Frequency	Level	Margin	Limit	Read	Antenna	Path	Preamplifier	Ant	Table	Peak	Pol.
Ant.					Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
2.4GHz 802.11b SHF		22403	39	-35	74	59.13	38.26	-3.85	54.54	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
		23817	38.66	-35.34	74	55.89	38.8	-2.22	53.81	-	-	P	V
													V
													V
													V
													V
													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 802.11b (LF)

WIFI Ant. 1	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)
2.4GHz 802.11b LF		53.28	32.44	-7.56	40	51.12	12.7	1.1	32.48	-	-	P	H
		207.51	34.62	-8.88	43.5	49.95	14.95	2.22	32.5	-	-	P	H
		383.08	35.93	-10.07	46	43.66	21.03	3	31.76	-	-	P	H
		479.11	37.07	-8.93	46	42.28	23.5	3.34	32.05	-	-	P	H
		908.82	31.48	-14.52	46	29.09	28.88	4.68	31.17	-	-	P	H
		953.44	31.79	-14.21	46	27.3	30.57	4.79	30.87	-	-	P	H
													H
													H
													H
													H
													H
													H
		55.22	29.83	-10.17	40	48.89	12.3	1.12	32.48	100	78	Q	V
		143.49	34.52	-8.98	43.5	47.97	17.13	1.87	32.45	-	-	P	V
		383.08	33.69	-12.31	46	41.42	21.03	3	31.76	-	-	P	V
		479.11	35.95	-10.05	46	41.16	23.5	3.34	32.05	-	-	P	V
		833.16	29.72	-16.28	46	28.45	28.41	4.44	31.58	-	-	P	V
		859.35	31.07	-14.93	46	28.84	29.15	4.52	31.44	-	-	P	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 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	Peak or Average
H/V	Horizontal or Vertical

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

WIFI	Note	Frequency	Level	Margin	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.					Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1		(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. Margin(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. Margin(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. Margin(dB)
= Level(dBμV/m) – Limit Line(dBμV/m)
= 43.54(dBμV/m) – 54(dBμV/m)
= -10.46(dB)

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



Appendix D. Radiated Spurious Emission Plots

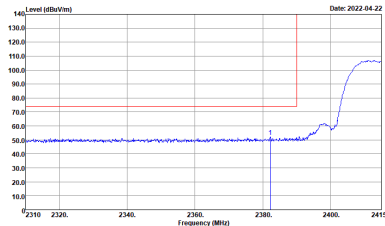
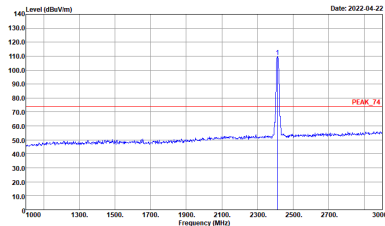
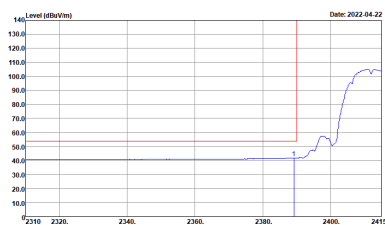
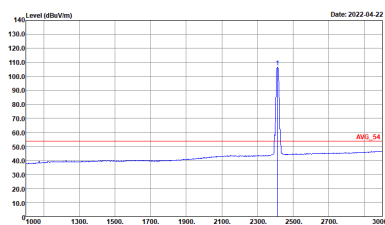
Test Engineer :	Theodore, Fu Chen, Troye Hsieh	Temperature :	20.1~21.7°C
		Relative Humidity :	56.1~67.5%

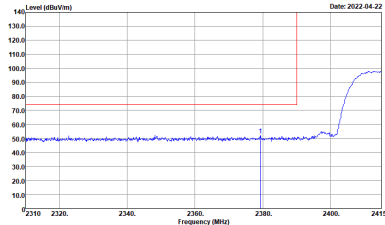
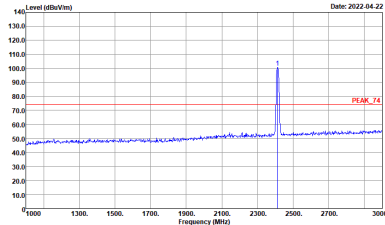
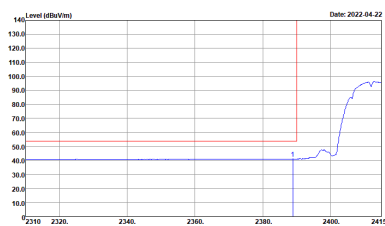
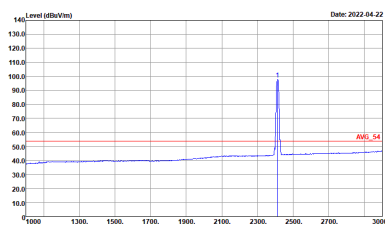
Note symbol

-L	Low channel location
-R	High channel location



2.4GHz 2412~2462MHz
WIFI 802.11b (Band Edge @ 3m)

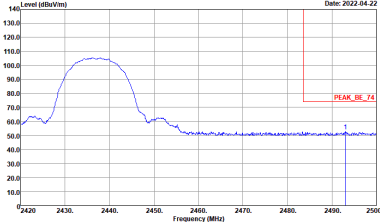
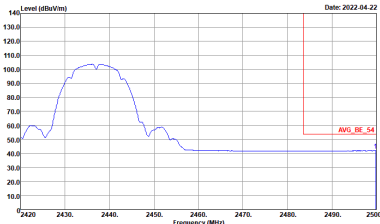
WIFI	2.4GHz 2412~2462MHz Band Edge @ 3m	
ANT	802.11b CH01 2412MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m 91200_1212_220310 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	 Site : 03CH11-HY Condition : PEAK_74 3m 91200_1212_220310 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m 91200_1212_220310 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	 Site : 03CH11-HY Condition : AVG_54 3m 91200_1212_220310 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto

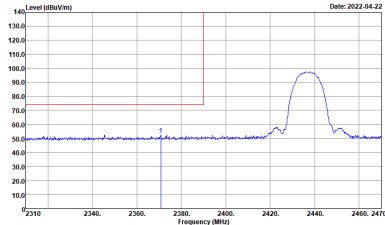
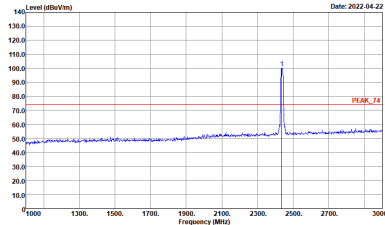
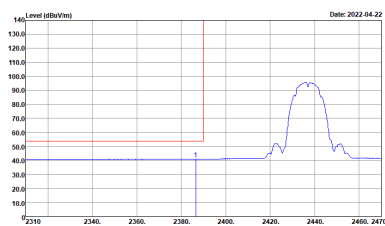
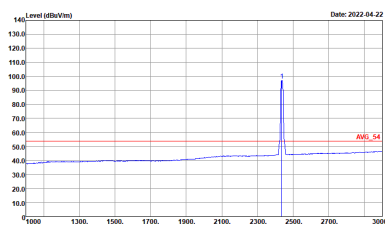
WIFI	2.4GHz 2412~2462MHz Band Edge @ 3m	
ANT	802.11b CH01 2412MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m 91200_1212_220310 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	 Site : 03CH11-HY Condition : PEAK_74 3m 91200_1212_220310 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m 91200_1212_220310 VERTICAL : RBW:1000.000kHz VBW:0.010kHz SWT:Auto	 Site : 03CH11-HY Condition : AVG_54 3m 91200_1212_220310 VERTICAL : RBW:1000.000kHz VBW:0.010kHz SWT:Auto



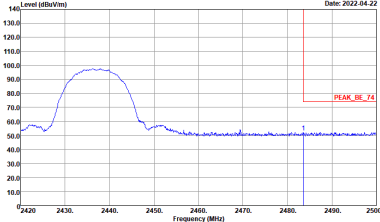
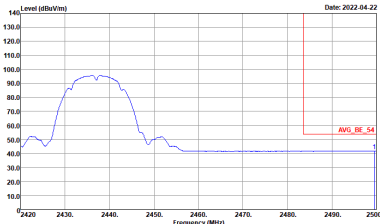
WIFI	2.4GHz 2412~2462MHz Band Edge @ 3m	
ANT	802.11b CH06 2437MHz - L	
1	Horizontal	Fundamental
Peak	Site : 03CH11-HY Condition : PEAK_BE_74 3m 91200_1212_220310 HORIZONTAL : RBW:1000.0000kHz VBW:3000.0000kHz SWT:Auto	Site : 03CH11-HY Condition : PEAK_74 3m 91200_1212_220310 HORIZONTAL : RBW:1000.0000kHz VBW:3000.0000kHz SWT:Auto
Avg.	Site : 03CH11-HY Condition : AVG_BE_54 3m 91200_1212_220310 HORIZONTAL : RBW:1000.0000kHz VBW:0.0100kHz SWT:Auto	Site : 03CH11-HY Condition : AVG_54 3m 91200_1212_220310 HORIZONTAL : RBW:1000.0000kHz VBW:0.0100kHz SWT:Auto



WIFI	2.4GHz 2412~2462MHz Band Edge @ 3m	
ANT	802.11b CH06 2437MHz - R	
1	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m 91200_1212_220310 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	Left blank
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m 91200_1212_220310 HORIZONTAL : RBW:1000.000kHz VBW:0.010kHz SWT:Auto	Left blank

WIFI	2.4GHz 2412~2462MHz Band Edge @ 3m	
ANT	802.11b CH06 2437MHz - L	
1	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m 91200_1212_220310 VERTICAL : RBW:1000.0000kHz VBW:3000.0000kHz SWT:Auto	 Site : 03CH11-HY Condition : PEAK_74 3m 91200_1212_220310 VERTICAL : RBW:1000.0000kHz VBW:3000.0000kHz SWT:Auto
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m 91200_1212_220310 VERTICAL : RBW:1000.0000kHz VBW:0.0100kHz SWT:Auto	 Site : 03CH11-HY Condition : AVG_54 3m 91200_1212_220310 VERTICAL : RBW:1000.0000kHz VBW:0.0100kHz SWT:Auto

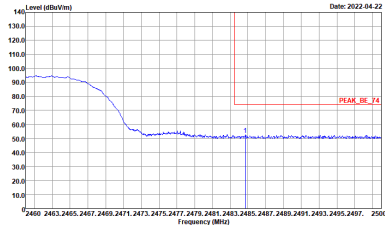
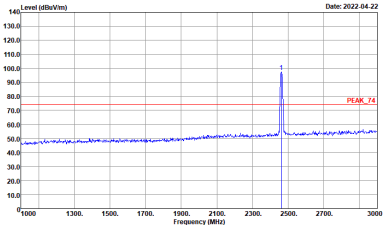
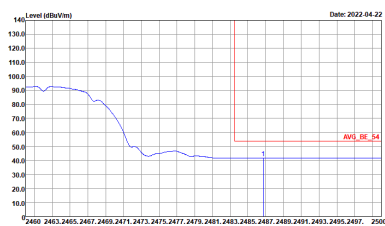
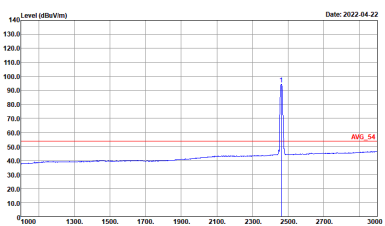


WIFI	2.4GHz 2412~2462MHz Band Edge @ 3m	
ANT	802.11b CH06 2437MHz - R	
1	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m 91200_1212_220310 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	Left blank
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m 91200_1212_220310 VERTICAL : RBW:1000.000kHz VBW:0.010kHz SWT:Auto	Left blank



WIFI	2.4GHz 2412~2462MHz Band Edge @ 3m	
ANT	802.11b CH11 2462MHz	
1	Horizontal	Fundamental
Peak	Site : 03CH11-HY Condition : PEAK_BE_74 3m 91200_1212_220310 HORIZONTAL : RBW:1000.0000kHz VBW:3000.0000kHz SWT:Auto	Site : 03CH11-HY Condition : PEAK_74 3m 91200_1212_220310 HORIZONTAL : RBW:1000.0000kHz VBW:3000.0000kHz SWT:Auto
Avg.	Site : 03CH11-HY Condition : AVG_BE_54 3m 91200_1212_220310 HORIZONTAL : RBW:1000.0000kHz VBW:0.0100kHz SWT:Auto	Site : 03CH11-HY Condition : AVG_54 3m 91200_1212_220310 HORIZONTAL : RBW:1000.0000kHz VBW:0.0100kHz SWT:Auto

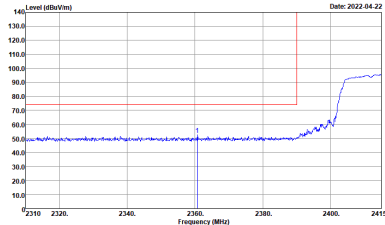
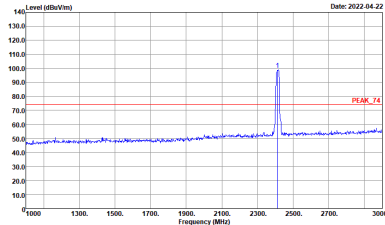
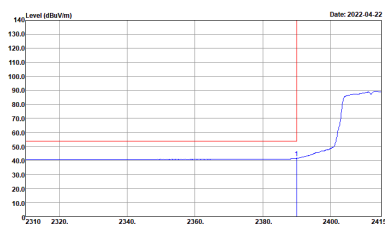
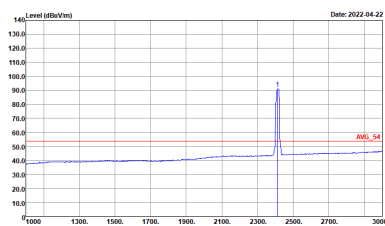


WIFI	2.4GHz 2412~2462MHz Band Edge @ 3m	
ANT	802.11b CH11 2462MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m 91200_1212_220310 VERTICAL : RBW:1000.0000kHz VBW:3000.0000kHz SWT:Auto	 Site : 03CH11-HY Condition : PEAK_74 3m 91200_1212_220310 VERTICAL : RBW:1000.0000kHz VBW:3000.0000kHz SWT:Auto
	 Site : 03CH11-HY Condition : AVG_BE_54 3m 91200_1212_220310 VERTICAL : RBW:1000.0000kHz VBW:0.0100kHz SWT:Auto	 Site : 03CH11-HY Condition : AVG_54 3m 91200_1212_220310 VERTICAL : RBW:1000.0000kHz VBW:0.0100kHz SWT:Auto
Avg.		



2.4GHz 2412~2462MHz
WIFI 802.11g (Band Edge @ 3m)

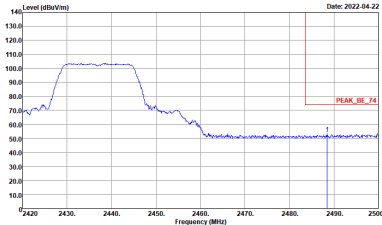
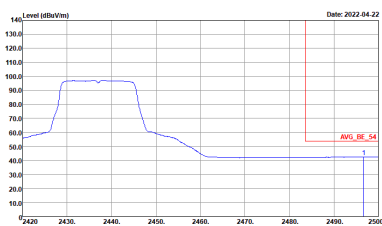
WIFI	2.4GHz 2412~2462MHz Band Edge @ 3m	
ANT	802.11g CH01 2412MHz	
1	Horizontal	Fundamental
Peak	Site : 03CH11-HY Condition : PEAK_BE_74 3m 91200_1212_220310 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	Site : 03CH11-HY Condition : PEAK_74 3m 91200_1212_220310 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto
Avg.	Site : 03CH11-HY Condition : AVG_BE_54 3m 91200_1212_220310 HORIZONTAL : RBW:1000.000kHz VBW:0.010kHz SWT:Auto	Site : 03CH11-HY Condition : AVG_54 3m 91200_1212_220310 HORIZONTAL : RBW:1000.000kHz VBW:0.010kHz SWT:Auto

WIFI	2.4GHz 2412~2462MHz Band Edge @ 3m	
ANT	802.11g CH01 2412MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m 91200_1212_220310 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	 Site : 03CH11-HY Condition : PEAK_74 3m 91200_1212_220310 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m 91200_1212_220310 VERTICAL : RBW:1000.000kHz VBW:0.010kHz SWT:Auto	 Site : 03CH11-HY Condition : AVG_54 3m 91200_1212_220310 VERTICAL : RBW:1000.000kHz VBW:0.010kHz SWT:Auto



WIFI	2.4GHz 2412~2462MHz Band Edge @ 3m	
ANT	802.11g CH06 2437MHz - L	
1	Horizontal	Fundamental
Peak	Site : 03CH11-HY Condition : PEAK_BE_74 3m 91200_1212_220310 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	Site : 03CH11-HY Condition : PEAK_74 3m 91200_1212_220310 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto
Avg.	Site : 03CH11-HY Condition : AVG_BE_54 3m 91200_1212_220310 HORIZONTAL : RBW:1000.000kHz VBW:0.010kHz SWT:Auto	Site : 03CH11-HY Condition : AVG_54 3m 91200_1212_220310 HORIZONTAL : RBW:1000.000kHz VBW:0.010kHz SWT:Auto

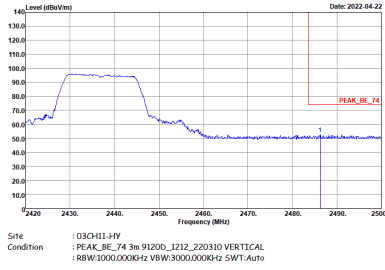
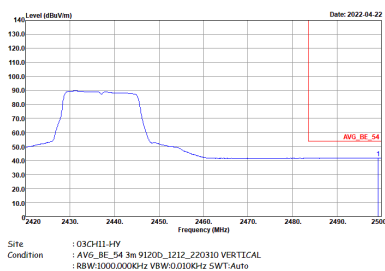


WIFI	2.4GHz 2412~2462MHz Band Edge @ 3m	
ANT	802.11g CH06 2437MHz - R	
1	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m 91200_1212_220310 HORIZONTAL : RBW:1000.0000kHz VBW:3000.0000kHz SWT:Auto	Left blank
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m 91200_1212_220310 HORIZONTAL : RBW:1000.0000kHz VBW:0.0100kHz SWT:Auto	Left blank



WIFI	2.4GHz 2412~2462MHz Band Edge @ 3m	
ANT	802.11g CH06 2437MHz - L	
1	Vertical	Fundamental
Peak	Site : 03CH11-HY Condition : PEAK_BE_74 3m 91200_1212_220310 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	Site : 03CH11-HY Condition : PEAK_74 3m 91200_1212_220310 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto
Avg.	Site : 03CH11-HY Condition : AVG_BE_54 3m 91200_1212_220310 VERTICAL : RBW:1000.000kHz VBW:0.010kHz SWT:Auto	Site : 03CH11-HY Condition : AVG_54 3m 91200_1212_220310 VERTICAL : RBW:1000.000kHz VBW:0.010kHz SWT:Auto

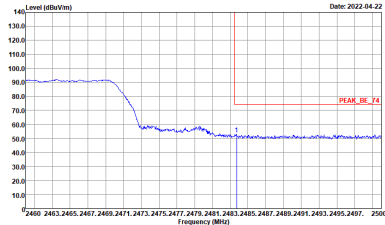
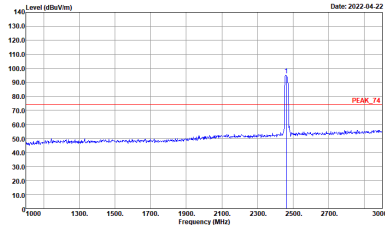
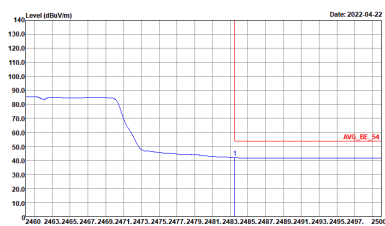
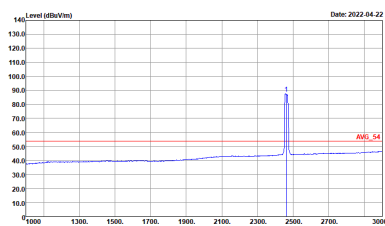


WIFI	2.4GHz 2412~2462MHz Band Edge @ 3m	
ANT	802.11g CH06 2437MHz - R	
1	Vertical	Fundamental
Peak		Left Blank
Avg.		Left Blank

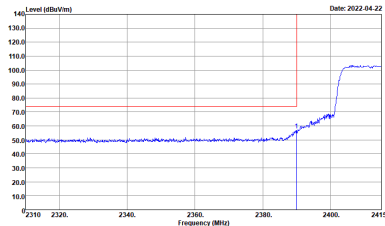
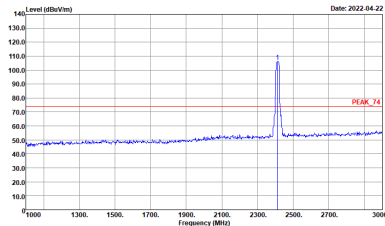
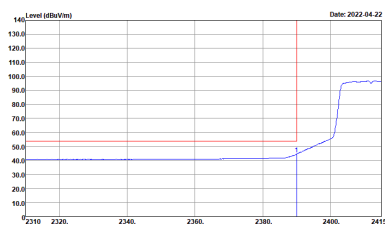
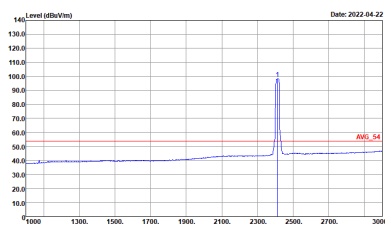


WIFI	2.4GHz 2412~2462MHz Band Edge @ 3m	
ANT	802.11g CH11 2462MHz	
1	Horizontal	Fundamental
Peak	Site : 03CH11-HY Condition : PEAK_BE_74 3m 91200_1212_220310 HORIZONTAL : RBW:1000.0000kHz VBW:3000.0000kHz SWT:Auto	Site : 03CH11-HY Condition : PEAK_74 3m 91200_1212_220310 HORIZONTAL : RBW:1000.0000kHz VBW:3000.0000kHz SWT:Auto
Avg.	Site : 03CH11-HY Condition : AVG_BE_54 3m 91200_1212_220310 HORIZONTAL : RBW:1000.0000kHz VBW:0.0100kHz SWT:Auto	Site : 03CH11-HY Condition : AVG_54 3m 91200_1212_220310 HORIZONTAL : RBW:1000.0000kHz VBW:0.0100kHz SWT:Auto

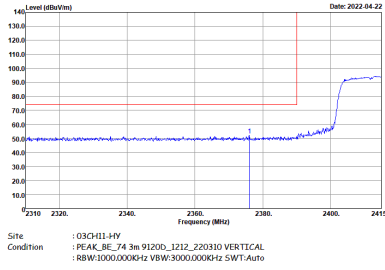
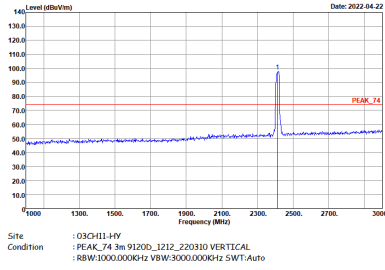
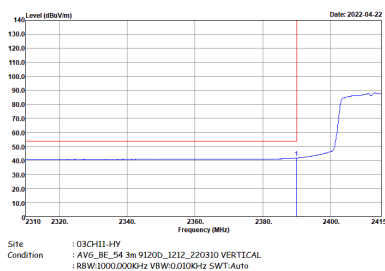
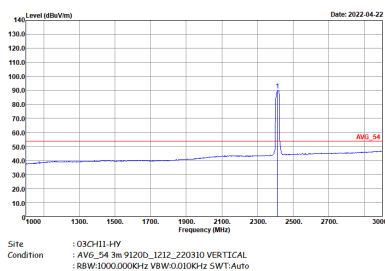


WIFI	2.4GHz 2412~2462MHz Band Edge @ 3m	
ANT	802.11g CH11 2462MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m 91200_1212_220310 VERTICAL : RBW:1000.0000kHz VBW:3000.0000kHz SWT:Auto	 Site : 03CH11-HY Condition : PEAK_74 3m 91200_1212_220310 VERTICAL : RBW:1000.0000kHz VBW:3000.0000kHz SWT:Auto
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m 91200_1212_220310 VERTICAL : RBW:1000.0000kHz VBW:0.0100kHz SWT:Auto	 Site : 03CH11-HY Condition : AVG_54 3m 91200_1212_220310 VERTICAL : RBW:1000.0000kHz VBW:0.0100kHz SWT:Auto

2.4GHz 2412~2462MHz
WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI	2.4GHz 2412~2462MHz Band Edge @ 3m	
ANT	802.11n HT20 CH01 2412MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m 91200_1212_220310 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	 Site : 03CH11-HY Condition : PEAK_74 3m 91200_1212_220310 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m 91200_1212_220310 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	 Site : 03CH11-HY Condition : AVG_54 3m 91200_1212_220310 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto

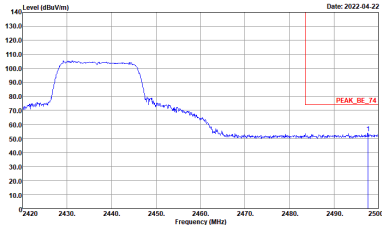
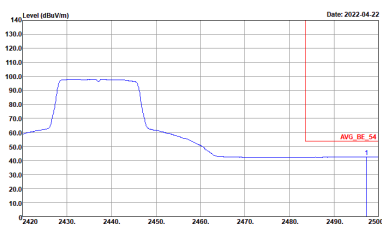


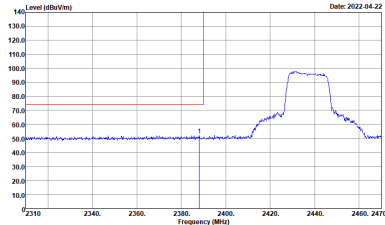
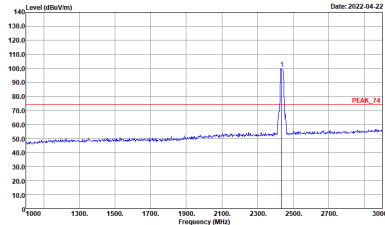
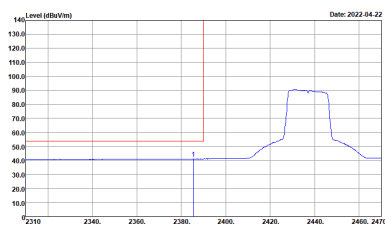
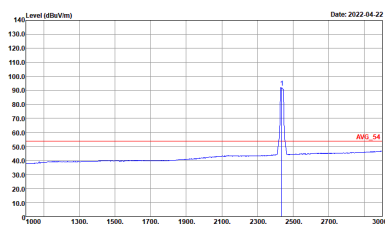
WIFI	2.4GHz 2412~2462MHz Band Edge @ 3m	
ANT	802.11n HT20 CH01 2412MHz	
1	Vertical	Fundamental
Peak	 Site: 03CH11-HY Condition: : PEAK_BE_74 3m 91200_1212_220310 VERTICAL : RBW:1000.0000kHz VBW:3000.0000kHz SWT:Auto	 Site: 03CH11-HY Condition: : PEAK_74 3m 91200_1212_220310 VERTICAL : RBW:1000.0000kHz VBW:3000.0000kHz SWT:Auto
Avg.	 Site: 03CH11-HY Condition: : AVG_BE_54 3m 91200_1212_220310 VERTICAL : RBW:1000.0000kHz VBW:0.0100kHz SWT:Auto	 Site: 03CH11-HY Condition: : AVG_54 3m 91200_1212_220310 VERTICAL : RBW:1000.0000kHz VBW:0.0100kHz SWT:Auto



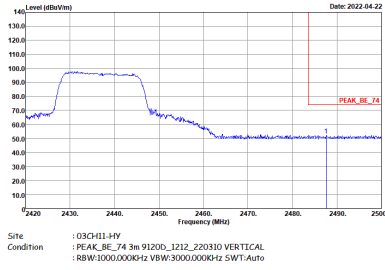
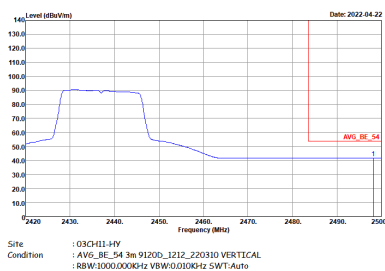
WIFI	2.4GHz 2412~2462MHz Band Edge @ 3m	
ANT	802.11n HT20 CH06 2437MHz - L	
1	Horizontal	Fundamental
Peak	Site : 03CH11-HY Condition : PEAK_BE_74 3m 91200_1212_220310 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	Site : 03CH11-HY Condition : PEAK_74 3m 91200_1212_220310 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto
Avg.	Site : 03CH11-HY Condition : AVG_BE_54 3m 91200_1212_220310 HORIZONTAL : RBW:1000.000kHz VBW:0.010kHz SWT:Auto	Site : 03CH11-HY Condition : AVG_54 3m 91200_1212_220310 HORIZONTAL : RBW:1000.000kHz VBW:0.010kHz SWT:Auto



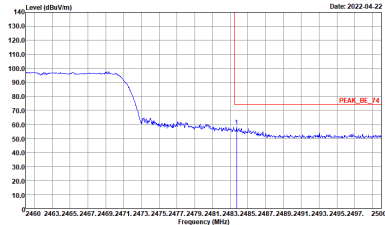
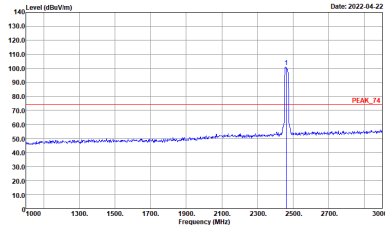
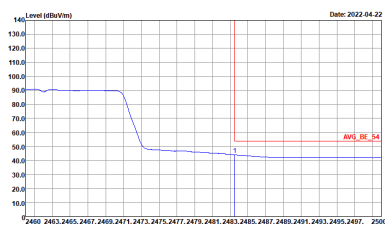
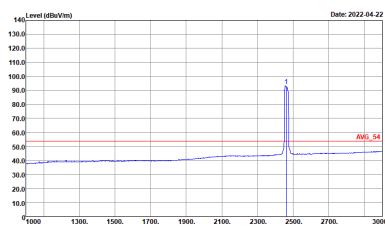
WIFI	2.4GHz 2412~2462MHz Band Edge @ 3m	
ANT	802.11n HT20 CH06 2437MHz - R	
1	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m 91200_1212_220310 HORIZONTAL : RBW:1000.0000Hz VBW:3000.0000Hz SWT:Auto	Left blank
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m 91200_1212_220310 HORIZONTAL : RBW:1000.0000Hz VBW:0.0100Hz SWT:Auto	Left blank

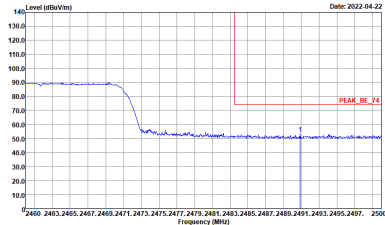
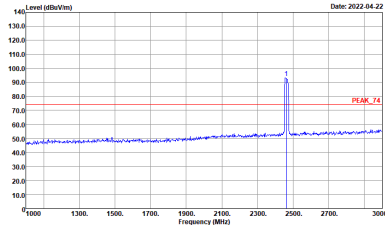
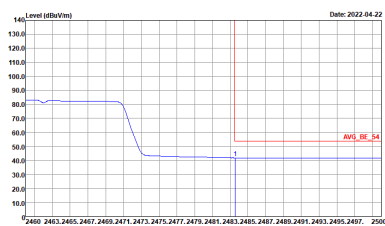
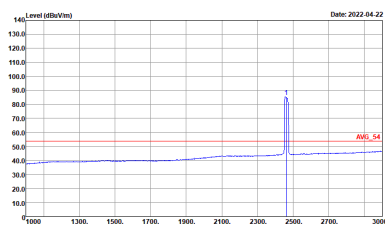
WIFI	2.4GHz 2412~2462MHz Band Edge @ 3m	
ANT	802.11n HT20 CH06 2437MHz - L	
1	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m 91200_1212_220310 VERTICAL : RBW:1000.0000kHz VBW:3000.0000kHz SWT:Auto	 Site : 03CH11-HY Condition : PEAK_74 3m 91200_1212_220310 VERTICAL : RBW:1000.0000kHz VBW:3000.0000kHz SWT:Auto
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m 91200_1212_220310 VERTICAL : RBW:1000.0000kHz VBW:0.0100kHz SWT:Auto	 Site : 03CH11-HY Condition : AVG_54 3m 91200_1212_220310 VERTICAL : RBW:1000.0000kHz VBW:0.0100kHz SWT:Auto



WIFI	2.4GHz 2412~2462MHz Band Edge @ 3m	
ANT	802.11n HT20 CH06 2437MHz - R	
1	Vertical	Fundamental
Peak		Left Blank
Avg.		Left Blank

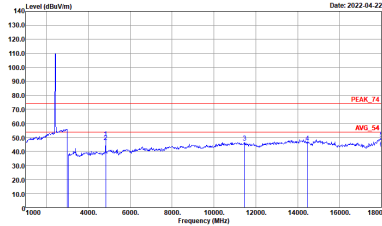
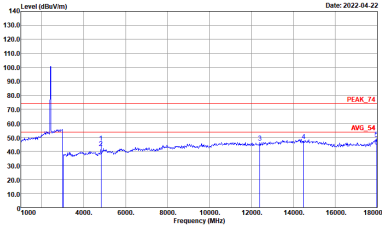


WIFI	2.4GHz 2412~2462MHz Band Edge @ 3m	
ANT	802.11n HT20 CH11 2462MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m 91200_1212_220310 HORIZONTAL : RBW:1000.0000kHz VBW:3000.0000kHz SWT:Auto	 Site : 03CH11-HY Condition : PEAK_74 3m 91200_1212_220310 HORIZONTAL : RBW:1000.0000kHz VBW:3000.0000kHz SWT:Auto
	 Site : 03CH11-HY Condition : AVG_BE_54 3m 91200_1212_220310 HORIZONTAL : RBW:1000.0000kHz VBW:0.0100kHz SWT:Auto	 Site : 03CH11-HY Condition : AVG_54 3m 91200_1212_220310 HORIZONTAL : RBW:1000.0000kHz VBW:0.0100kHz SWT:Auto
Avg.		

WIFI	2.4GHz 2412~2462MHz Fundamental @ 3m	
ANT	802.11n HT20 CH11 2462MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m 91200_1212_220310 VERTICAL : RBW:1000.0000kHz VBW:3000.0000kHz SWT:Auto	 Site : 03CH11-HY Condition : PEAK_74 3m 91200_1212_220310 VERTICAL : RBW:1000.0000kHz VBW:3000.0000kHz SWT:Auto
	 Site : 03CH11-HY Condition : AVG_BE_54 3m 91200_1212_220310 VERTICAL : RBW:1000.0000kHz VBW:0.0100kHz SWT:Auto	 Site : 03CH11-HY Condition : AVG_54 3m 91200_1212_220310 VERTICAL : RBW:1000.0000kHz VBW:0.0100kHz SWT:Auto
Avg.		



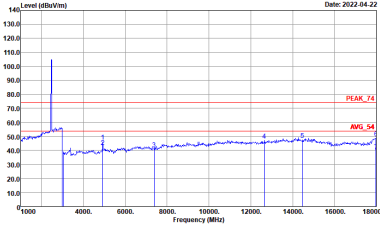
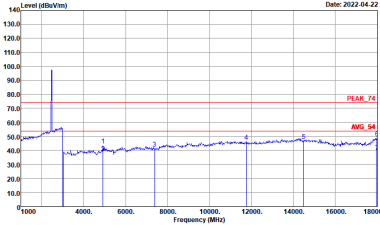
2.4GHz 2412~2462MHz
WIFI 802.11b (Harmonic @ 3m)

WIFI	2.4GHz 2412~2462MHz Harmonic @ 3m	
ANT	802.11b CH01 2412MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH11-HY Condition : PEAK_74 3m 91200_1212_220310 HORIZONTAL	 Site : 03CH11-HY Condition : PEAK_74 3m 91200_1212_220310 VERTICAL

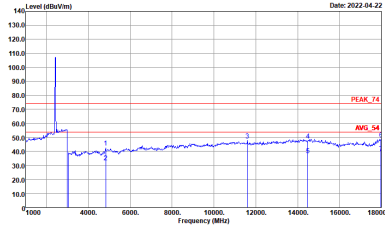
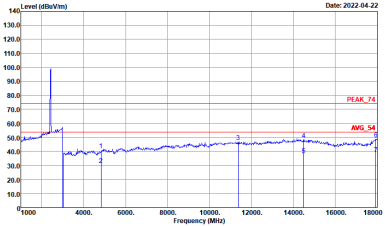


WIFI	2.4GHz 2412~2462MHz Harmonic @ 3m	
ANT	802.11b CH06 2437MHz	
1	Horizontal	Vertical
Peak Avg.	Level (dBm/Hz) 140.0 130.0 120.0 110.0 100.0 90.0 80.0 70.0 60.0 50.0 40.0 30.0 20.0 10.0 18000 Site : 03CH11-HY Condition : PEAK_74 3m 91200_1212_220310 HORIZONTAL	Level (dBm/Hz) 140.0 130.0 120.0 110.0 100.0 90.0 80.0 70.0 60.0 50.0 40.0 30.0 20.0 10.0 18000 Site : 03CH11-HY Condition : PEAK_74 3m 91200_1212_220310 VERTICAL

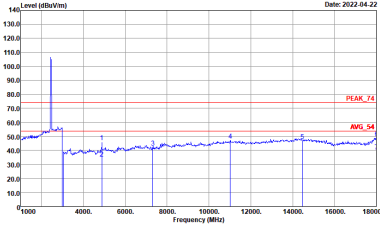
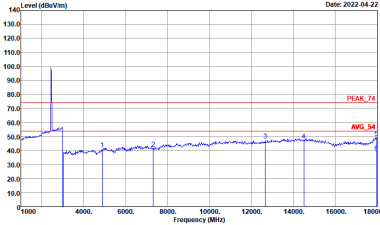


WIFI	2.4GHz 2412~2462MHz Harmonic @ 3m	
ANT	802.11b CH11 2462MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH11-4Y Condition : PEAK_74 3m 91200_1212_220310 HORIZONTAL	 Site : 03CH11-4Y Condition : PEAK_74 3m 91200_1212_220310 VERTICAL

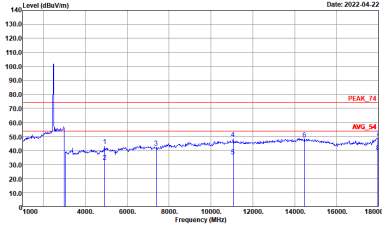
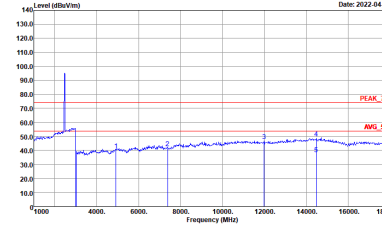
2.4GHz 2412~2462MHz
WIFI 802.11g (Harmonic @ 3m)

WIFI	2.4GHz 2412~2462MHz Harmonic @ 3m	
ANT	802.11g CH01 2412MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH11-HY Condition : PEAK_74 3m 91200_1212_220310 HORIZONTAL	 Site : 03CH11-HY Condition : PEAK_74 3m 91200_1212_220310 VERTICAL



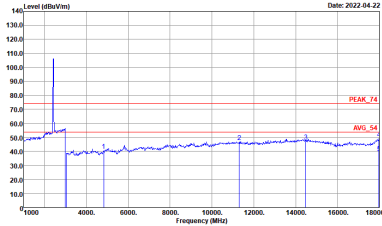
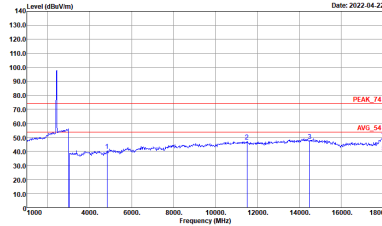
WIFI	2.4GHz 2412~2462MHz Harmonic @ 3m	
ANT	802.11g CH06 2437MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH11-HY Condition : PEAK_74 3m 91200_1212_220310 HORIZONTAL	 Site : 03CH11-HY Condition : PEAK_74 3m 91200_1212_220310 VERTICAL



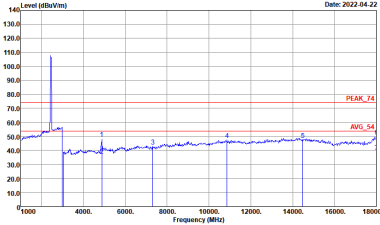
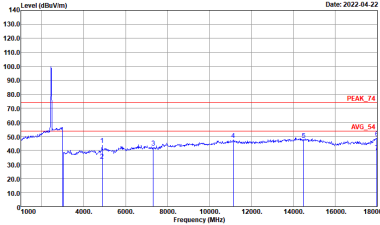
WIFI	2.4GHz 2412~2462MHz Harmonic @ 3m	
ANT	802.11g CH11 2462MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH11-1HY Condition : PEAK_74 3m 91200_1212_220310 HORIZONTAL	 Site : 03CH11-1HY Condition : PEAK_74 3m 91200_1212_220310 VERTICAL



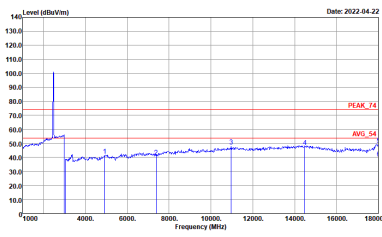
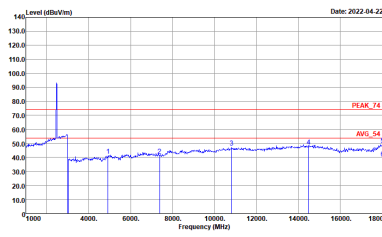
2.4GHz 2412~2462MHz
WIFI 802.11n HT20 (Harmonic @ 3m)

WIFI	2.4GHz 2412~2462MHz Harmonic @ 3m	
ANT	802.11n HT20 CH01 2412MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH11-HY Condition : PEAK_74 3m 91200_1212_220310 HORIZONTAL	 Site : 03CH11-HY Condition : PEAK_74 3m 91200_1212_220310 VERTICAL



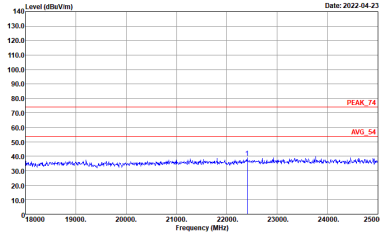
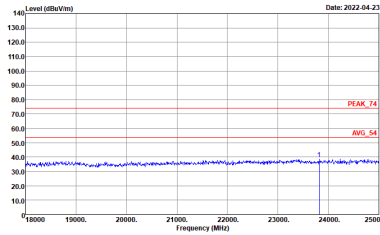
WIFI	2.4GHz 2412~2462MHz Harmonic @ 3m	
ANT	802.11n HT20 CH06 2437MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH11-1HY Condition : PEAK_74 3m 91200_1212_220310 HORIZONTAL	 Site : 03CH11-1HY Condition : PEAK_74 3m 91200_1212_220310 VERTICAL



WIFI	2.4GHz 2412~2462MHz Harmonic @ 3m	
ANT	802.11n HT20 CH11 2462MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH11-4Y Condition : PEAK_74 3m 91200_1212_220310 HORIZONTAL	 Site : 03CH11-4Y Condition : PEAK_74 3m 91200_1212_220310 VERTICAL

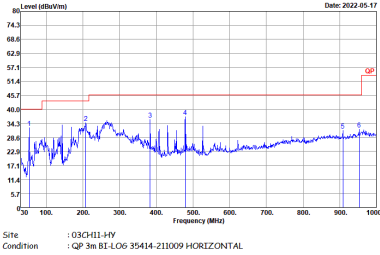
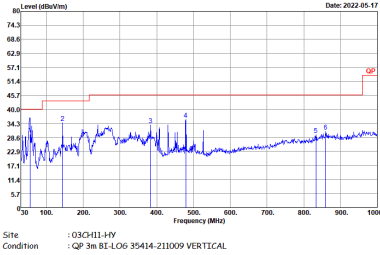


Emission above 18GHz
2.4GHz WIFI 802.11b (SHF @ 1m)

WIFI	2.4GHz 2412~2462MHz	
ANT	802.11b SHF	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CHI1-HY Condition : PEAK_74 1m SHF ANT_9170_00993 HORIZONTAL	 Site : 03CHI1-HY Condition : PEAK_74 1m SHF ANT_9170_00993 VERTICAL



Emission below 1GHz
2.4GHz WIFI 802.11b (LF)

WIFI	2.4GHz 2412~2462MHz	
ANT	802.11b LF	
1	Horizontal	Vertical
QP / Peak	 Site : 03CH11-HY Condition : QP 3m BE-LOG 35414-211009 HORIZONTAL	 Site : 03CH11-HY Condition : QP 3m BE-LOG 35414-211009 VERTICAL



Appendix E. Duty Cycle Plots

Band	Duty Cycle(%)	T(us)	1/T(kHz)	VBW Setting
802.11b	100.00	-	-	10Hz
802.11g	100.00	-	-	10Hz
2.4GHz 802.11n HT20	100.00	-	-	10Hz

