



FCC RADIO TEST REPORT

FCC ID : O57TBJ616F
Equipment : Portable Tablet Computer
Brand Name : Lenovo
Model Name : Lenovo TB-J616F
Applicant : Lenovo(Shanghai) Electronics Technology Co., Ltd.
Section 304-305, Building No. 4, # 222, Meiyue Road,
China (Shanghai) Pilot Free Trade Zone
Manufacturer : Lenovo PC HK Limited
23/F, Lincoln House, Taikoo Place
979 King's Road, Quarry Bay, Hong Kong, P.R.China
Standard : FCC Part 15 Subpart C §15.247

The product was received on May 03, 2021 and testing was started from May 05, 2021 and completed on May 22, 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 report apply exclusively to the tested model / sample. Without written approval of 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



Table of Contents

History of this test report.....	3
Summary of Test Result.....	4
1 General Description	5
1.1 Product Feature of Equipment Under Test.....	5
1.2 Product Specification of Equipment Under Test.....	5
1.3 Modification of EUT	5
1.4 Testing Location	6
1.5 Applicable Standards.....	6
2 Test Configuration of Equipment Under Test	7
2.1 Carrier Frequency and Channel	7
2.2 Test Mode.....	8
2.3 Connection Diagram of Test System.....	9
2.4 Support Unit used in test configuration and system	9
2.5 EUT Operation Test Setup	9
2.6 Measurement Results Explanation Example.....	10
3 Test Result	11
3.1 6dB and 99% Bandwidth Measurement	11
3.2 Output Power Measurement.....	13
3.3 Power Spectral Density Measurement	14
3.4 Conducted Band Edges and Spurious Emission Measurement	16
3.5 Radiated Band Edges and Spurious Emission Measurement	29
3.6 AC Conducted Emission Measurement.....	34
3.7 Antenna Requirements	36
4 List of Measuring Equipment.....	37
5 Uncertainty of Evaluation	39
Appendix A. Conducted Test Results	
Appendix B. AC Conducted Emission Test Result	
Appendix C. Radiated Spurious Emission	
Appendix D. Radiated Spurious Emission Plots	
Appendix E. Duty Cycle Plots	
Appendix F. Setup Photographs	

Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.1	15.247(a)(2)	6dB Bandwidth	Pass	-
3.1	2.1049	99% Occupied Bandwidth	Reporting only	-
3.2	15.247(b)	Power Output Measurement	Pass	-
3.3	15.247(e)	Power Spectral Density	Pass	-
3.4	15.247(d)	Conducted Band Edges	Pass	-
		Conducted Spurious Emission	Pass	-
3.5	15.247(d)	Radiated Band Edges and Radiated Spurious Emission	Pass	Under limit 3.22 dB at 4824.000 MHz
3.6	15.207	AC Conducted Emission	Pass	Under limit 13.60 dB at 0.152 MHz
3.7	15.203 & 15.247(b)	Antenna Requirement	Pass	-

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 declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

Reviewed by: Danny Lee
Report Producer: Dara Chiu

1 General Description

1.1 Product Feature of Equipment Under Test

Product Feature	
Equipment	Portable Tablet Computer
Brand Name	Lenovo
Model Name	Lenovo TB-J616F
FCC ID	O57TBJ616F
Sample 1	1st source (refer to the PED)
Sample 2	2nd source (refer to the PED)
Sample 3	3rd source (refer to the PED)
Sample 4	4rd source (refer to the PED)
Sample 5	5rd source (refer to the PED)
EUT supports Radios application	GNSS WLAN 11a/b/g/n HT20/HT40 WLAN 11ac VHT20/VHT40/VHT80 Bluetooth BR/EDR/LE FM
HW Version	Lenovo Tablet TB-J616F
SW Version	Lenovo Tablet TB-J616F_RF01_210415
EUT Stage	Identical Prototype

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

1.2 Product Specification of Equipment Under Test

Standards-related Product Specification	
Tx/Rx Channel Frequency Range	2412 MHz ~ 2462 MHz
Maximum (Average) Output Power to antenna	802.11b : 15.20 dBm (0.0331 W) 802.11g : 16.90 dBm (0.0490 W) 802.11n HT20 : 14.90 dBm (0.0309 W) 802.11n HT40 : 14.90 dBm (0.0309 W)
99% Occupied Bandwidth	802.11b : 13.05 MHz 802.11g : 16.95 MHz 802.11n HT20 : 17.90 MHz 802.11n HT40 : 36.60 MHz
Antenna Type / Gain	IFA Antenna with gain -2.70 dBi
Type of Modulation	802.11b : DSSS (DBPSK / DQPSK / CCK) 802.11g/n : OFDM (BPSK / QPSK / 16QAM / 64QAM)

Remark:

- MIMO Ant. 1+2 is a calculated result from sum of the power MIMO Ant. 1 and MIMO Ant. 2.
- The above EUT's information was declared by manufacturer. Please refer to Comments and Explanations in report summary.

1.3 Modification of EUT

No modifications are made to the EUT during all test items.



1.4 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
Test Site No.	Sporton Site No.
	TH05-HY, CO07-HY, 03CH15-HY

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

FCC designation No.: TW3786

1.5 Applicable Standards

According to the specifications of 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 414788 D01 Radiated Test Site v01r01.
- ♦ 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

- 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, pre-scanned in three orthogonal panels, X, Y, Z. The worst cases (Y plane) were recorded 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

Final test modes are considering the modulation and worse data rates as below table.

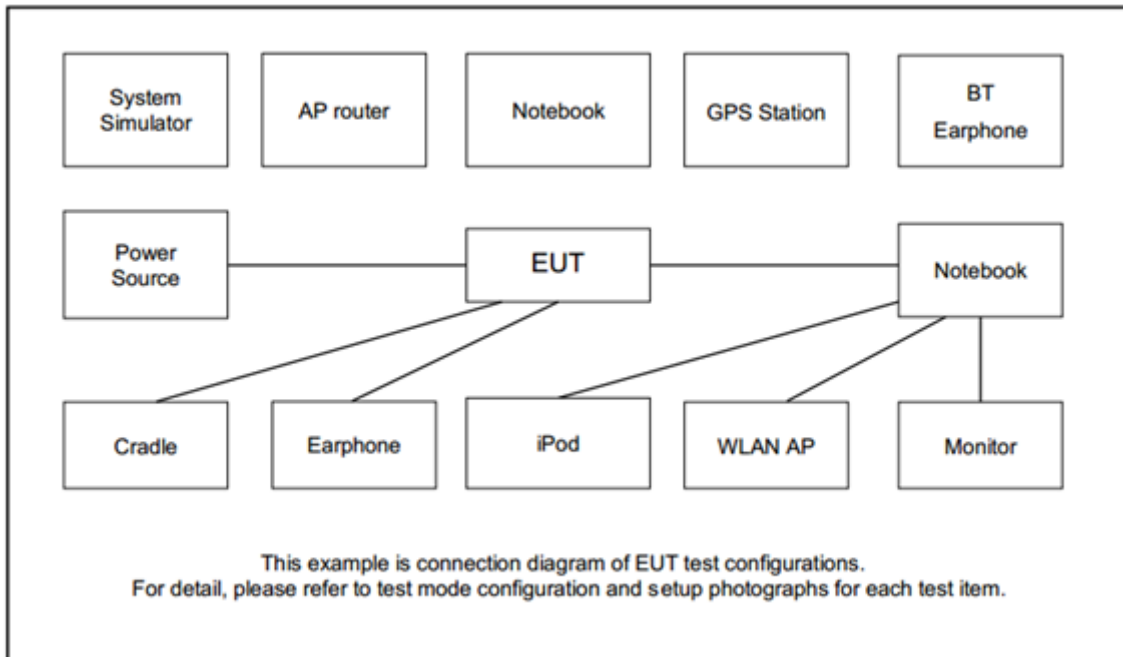
Modulation	Data Rate
802.11b	1 Mbps
802.11g	6 Mbps
802.11n HT20	MCS0
802.11n HT40	MCS0

Test Cases	
AC Conducted Emission	Mode 1: Bluetooth Link + WLAN (2.4GHz) Link + SD Card + Keyboard + USB Cable 1 (Charging from Adapter 1) for Sample 3
Remark: For Radiated Test Cases, the tests were performed with Adapter 1, USB Cable 1 and Sample 1.	

Ch. #	2400-2483.5 MHz			
	802.11b	802.11g	802.11n HT20	802.11n HT40
Low	01	01	01	03
Middle	06	06	06	06
High	11	11	11	09

Remark: For radiation spurious emission, the final modulation and the worst data rate was reference 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.	Bluetooth Earphone	Lenovo	LBH301	FCC DoC	N/A	N/A
2.	WLAN AP	ASUS	RT-AC66U	MSQ-RTAC66U	N/A	Unshielded, 1.8 m
3.	Notebook	DELL	Latitude 3400	N/A	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
4.	SD Card	SanDisk	MicroSD HC	FCC DoC	N/A	N/A

2.5 EUT Operation Test Setup

The RF test items make the EUT get into the engineering modes to provide channel selection, power level, data rate and the application type and for continuous transmitting signals.



2.6 Measurement Results Explanation Example

For all conducted test items:

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

Example:

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

Offset = RF cable loss + attenuator factor.

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

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

3 Test Result

3.1 6dB and 99% Bandwidth Measurement

3.1.1 Limit of 6dB and 99% Bandwidth

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

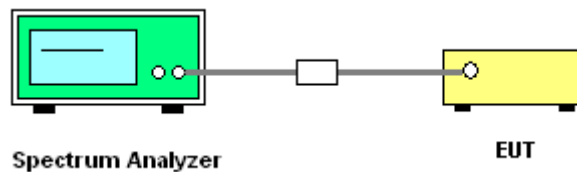
3.1.2 Measuring Instruments

See list of measuring equipment of this test report.

3.1.3 Test Procedures

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

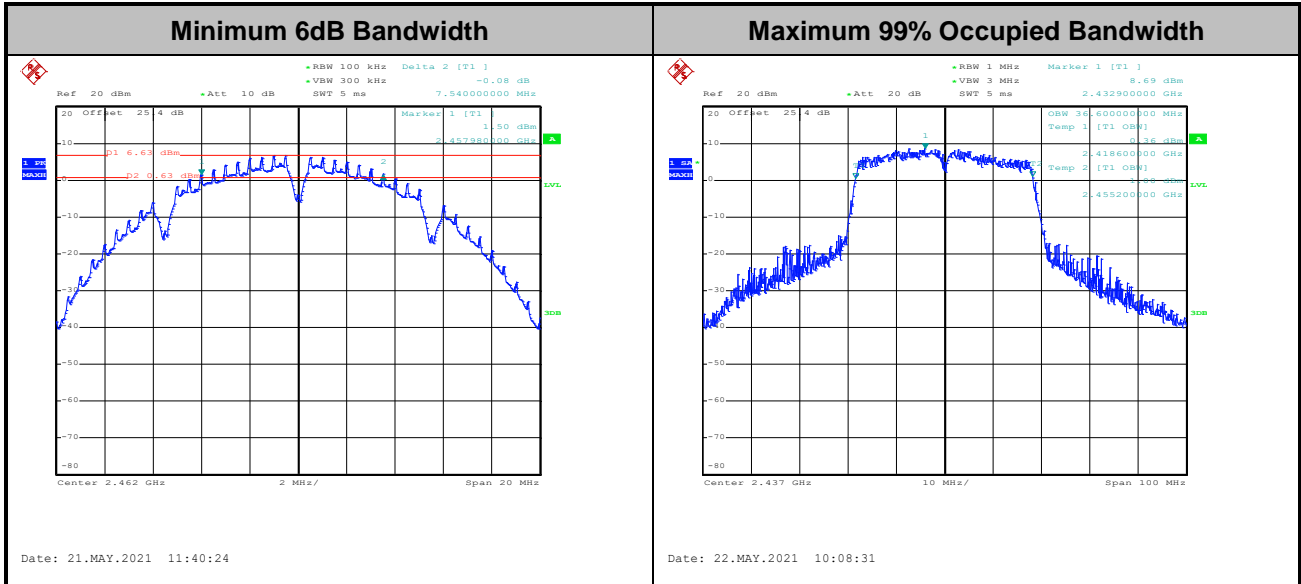
3.1.4 Test Setup





3.1.5 Test Result of 6dB and 99% Occupied Bandwidth

Please refer to Appendix A.



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

3.2 Output Power Measurement

3.2.1 Limit of Output Power

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

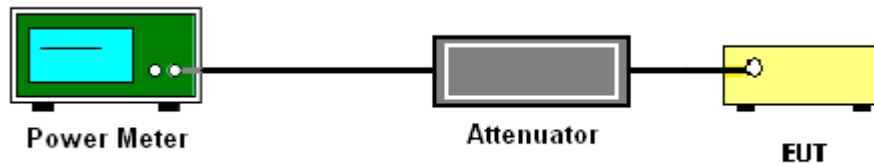
3.2.2 Measuring Instruments

See list of measuring equipment of this test report.

3.2.3 Test Procedures

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

3.2.4 Test Setup



3.2.5 Test Result of Average Output Power

Please refer to Appendix A.

3.3 Power Spectral Density Measurement

3.3.1 Limit of Power Spectral Density

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

3.3.2 Measuring Instruments

See list of measuring equipment of this test report.

3.3.3 Test Procedures

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

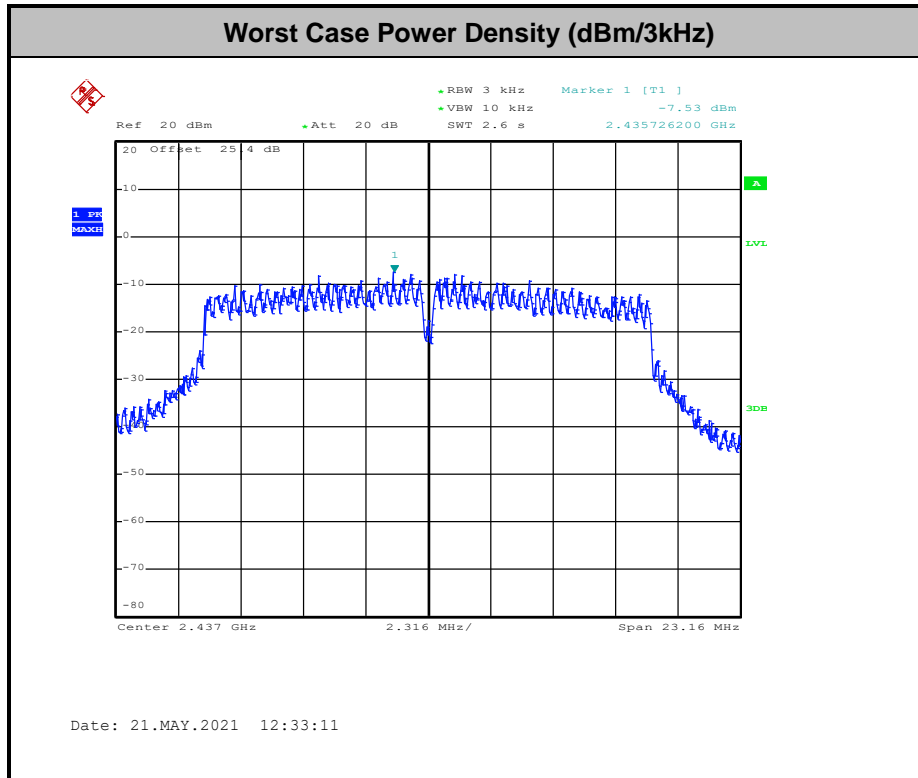
3.3.4 Test Setup





3.3.5 Test Result of Power Spectral Density

Please refer to Appendix A.



3.4 Conducted Band Edges and Spurious Emission Measurement

3.4.1 Limit of Conducted Band Edges and Spurious Emission Measurement

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

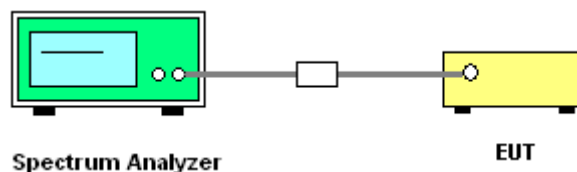
3.4.2 Measuring Instruments

See list of measuring equipment of this test report.

3.4.3 Test Procedures

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

3.4.4 Test Setup



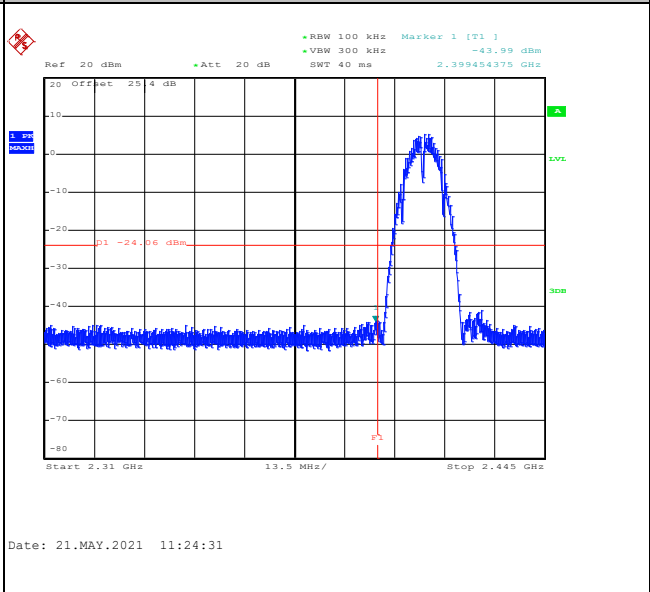
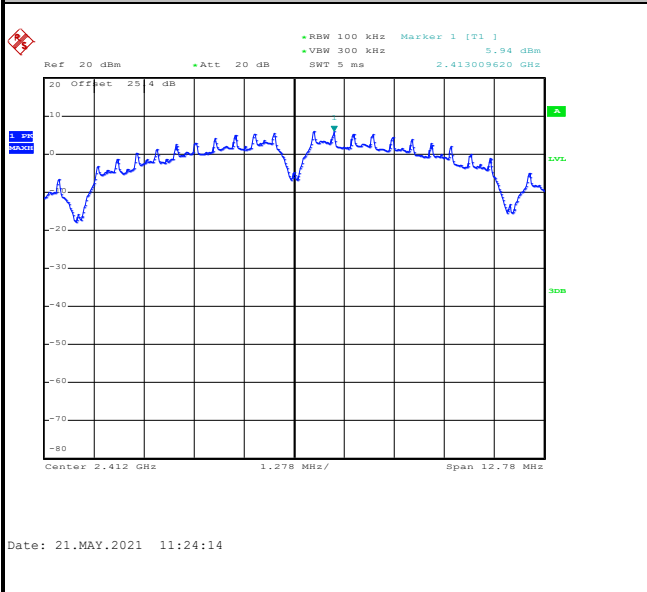


3.4.5 Test Result of Conducted Band Edges and Spurious Emission

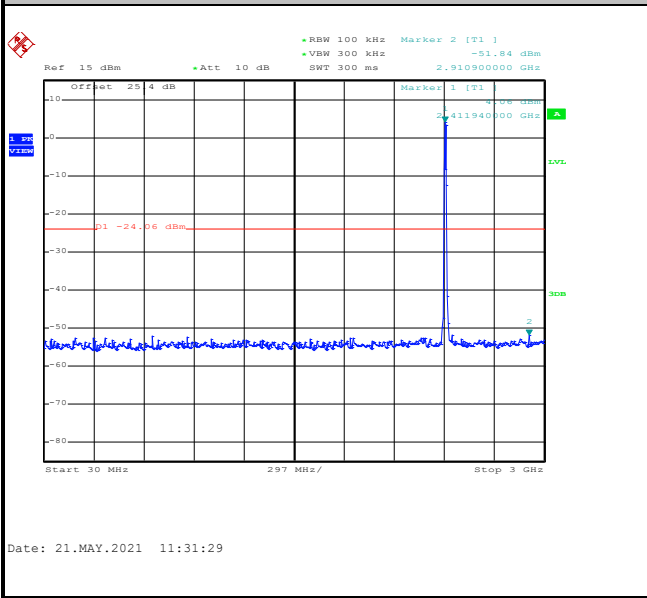
Test Engineer : Mina Liu	Temperature :	21~25°C
	Relative Humidity :	51~54%

Test Mode :	802.11b	Test Channel :	01
-------------	---------	----------------	----

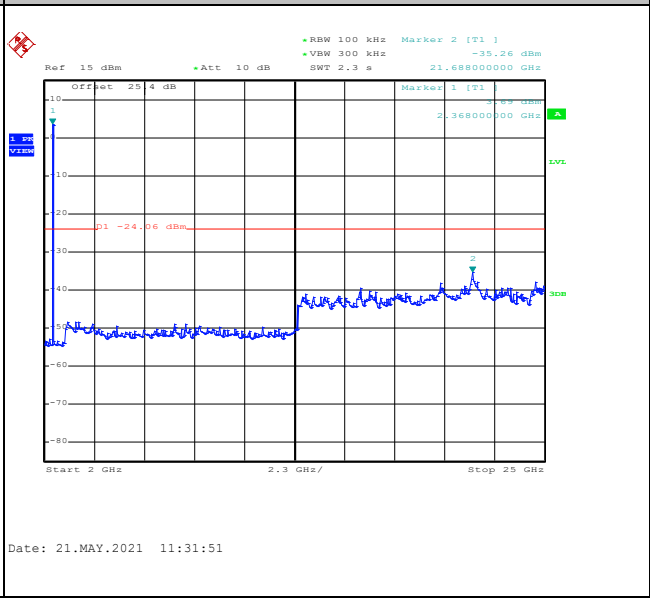
100kHz PSD reference Level	Low Channel Plot
-----------------------------------	-------------------------



Spurious Emission 30MHz~3GHz

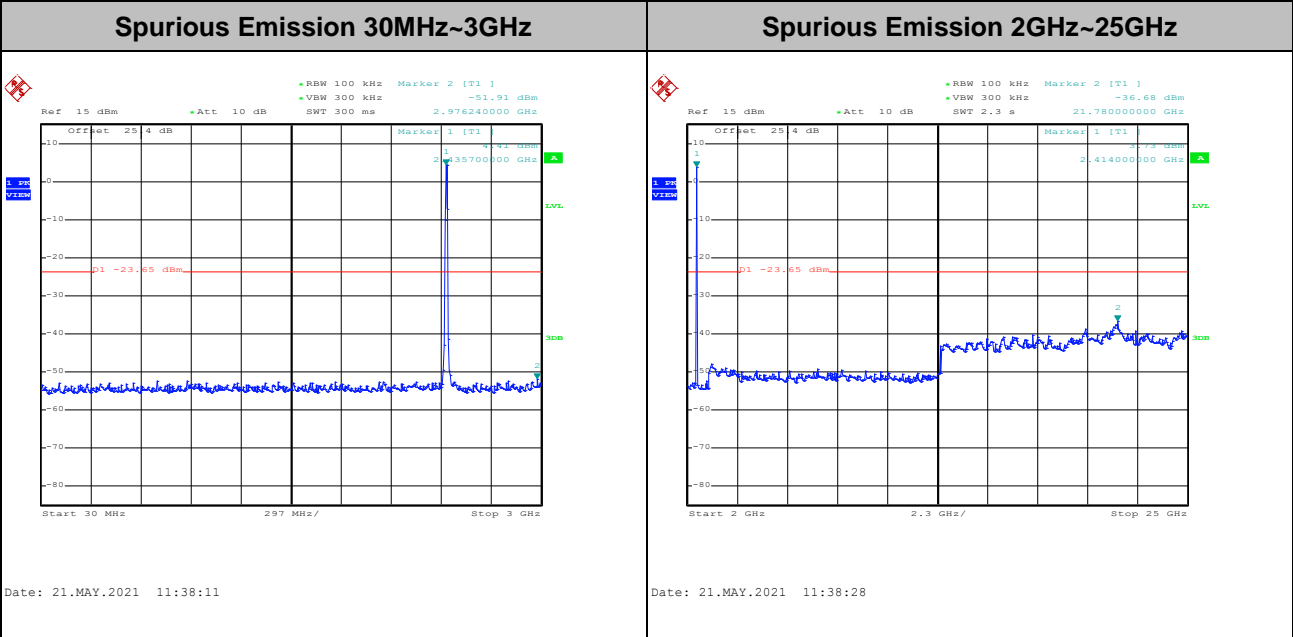
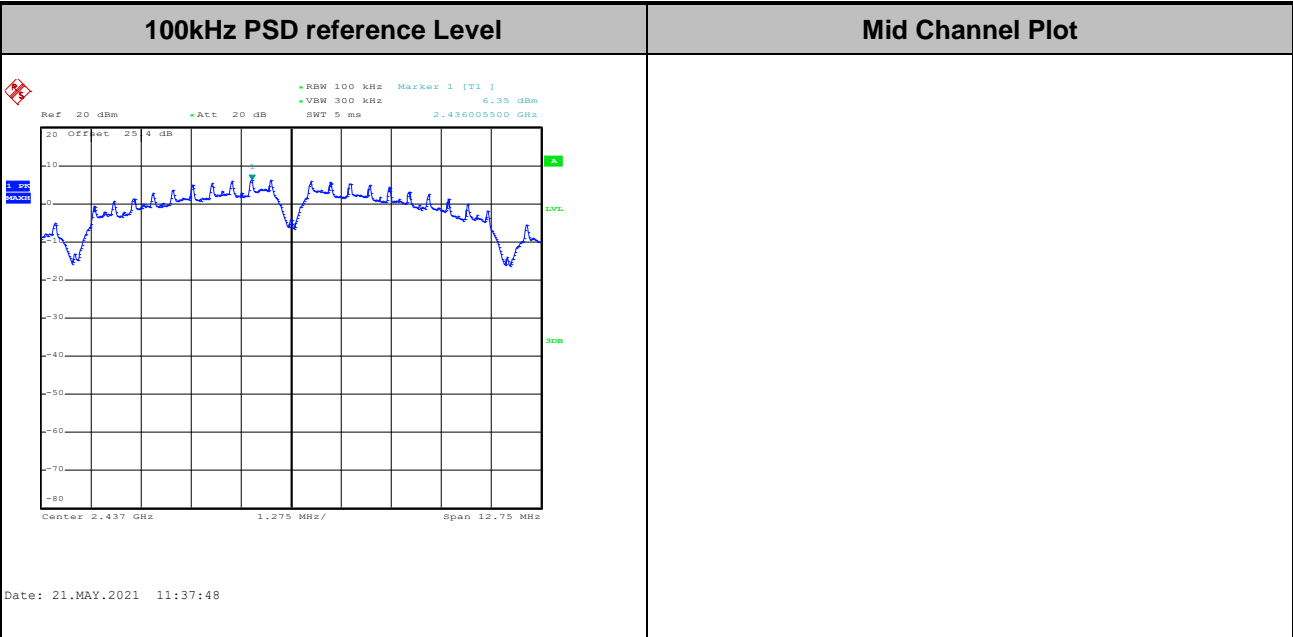


Spurious Emission 2GHz~25GHz





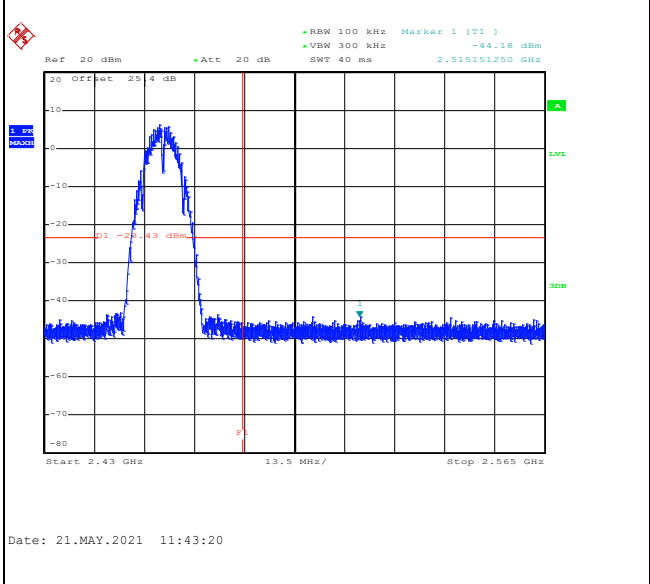
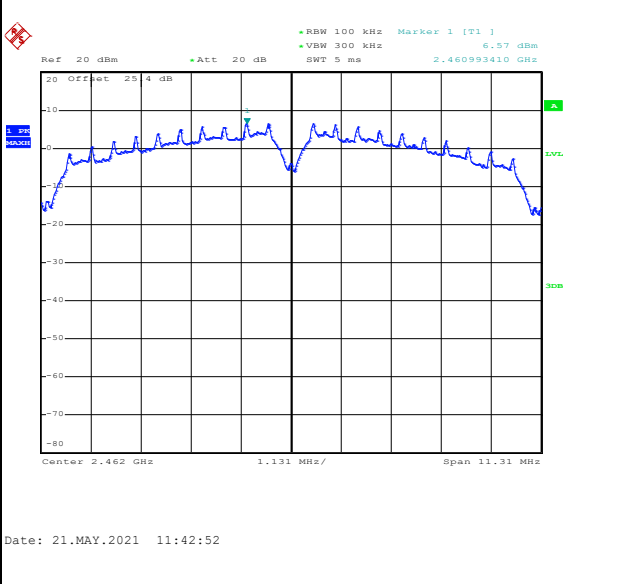
Test Mode :	802.11b	Test Channel :	06
-------------	---------	----------------	----



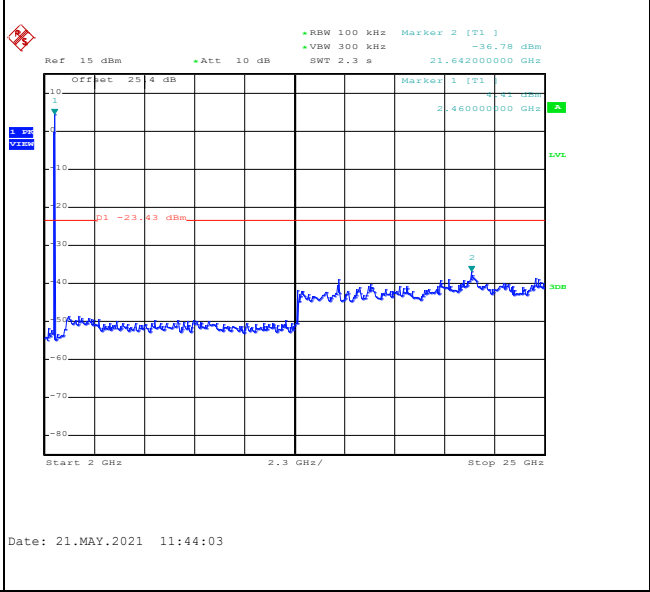
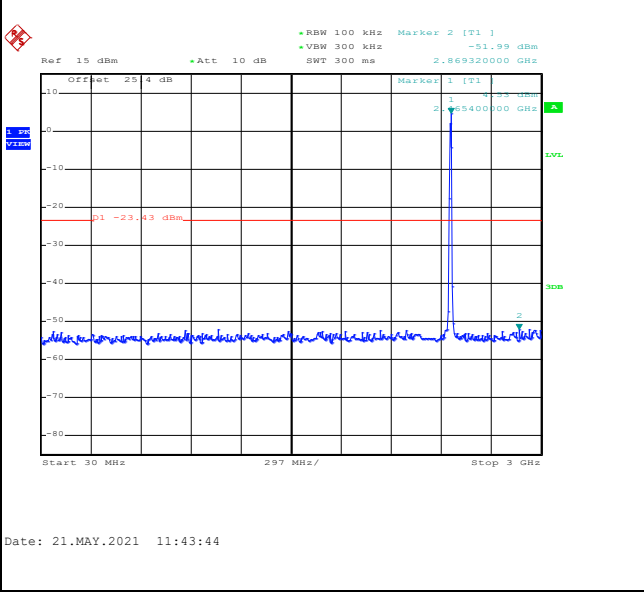


Test Mode :	802.11b	Test Channel :	11
-------------	---------	----------------	----

100kHz PSD reference Level	High Channel Plot
-----------------------------------	--------------------------

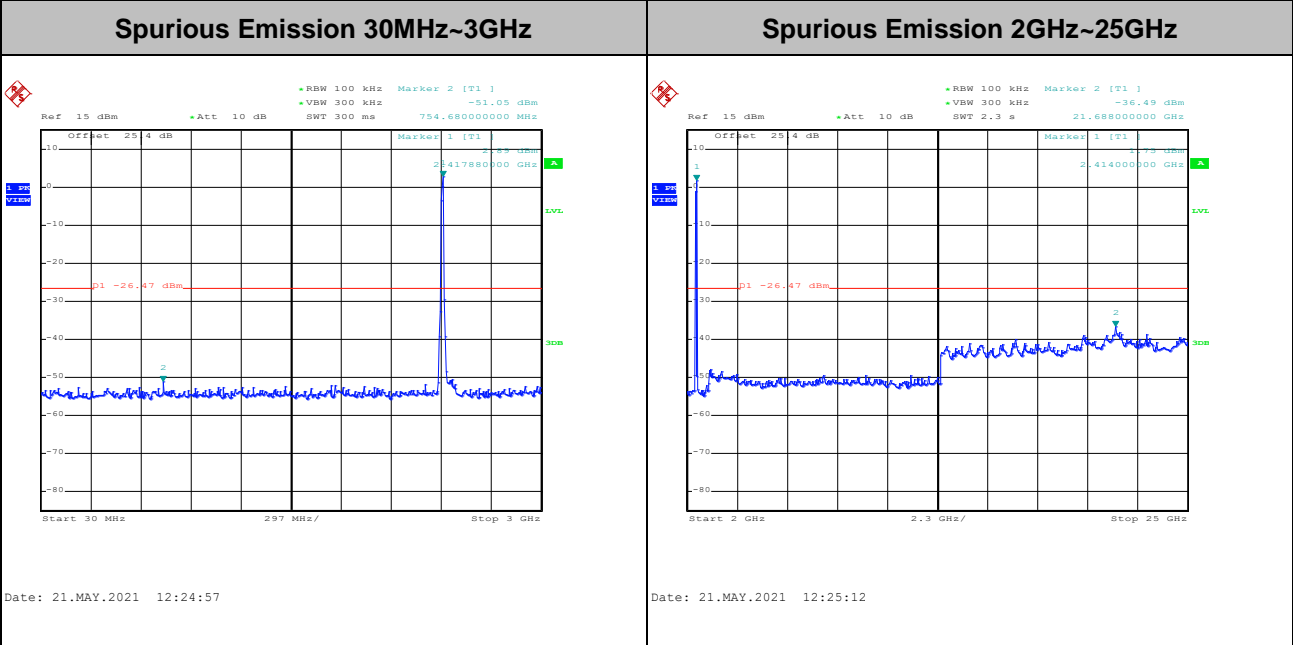
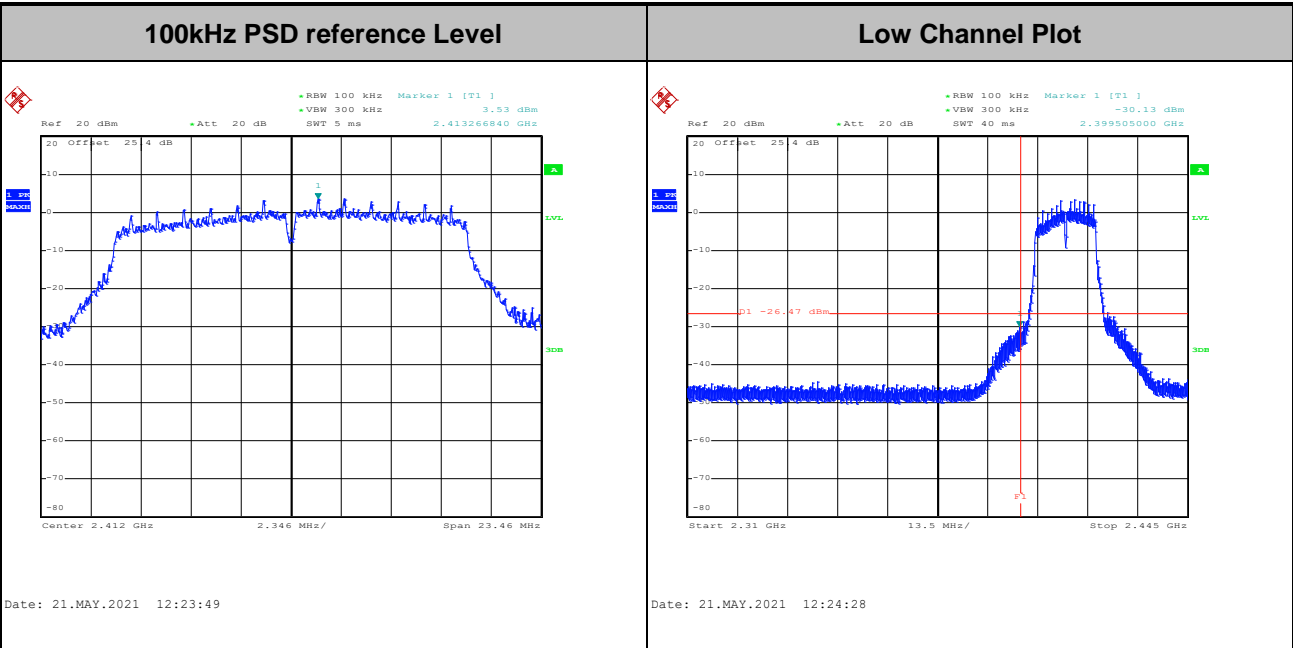


Spurious Emission 30MHz~3GHz	Spurious Emission 2GHz~25GHz
-------------------------------------	-------------------------------------





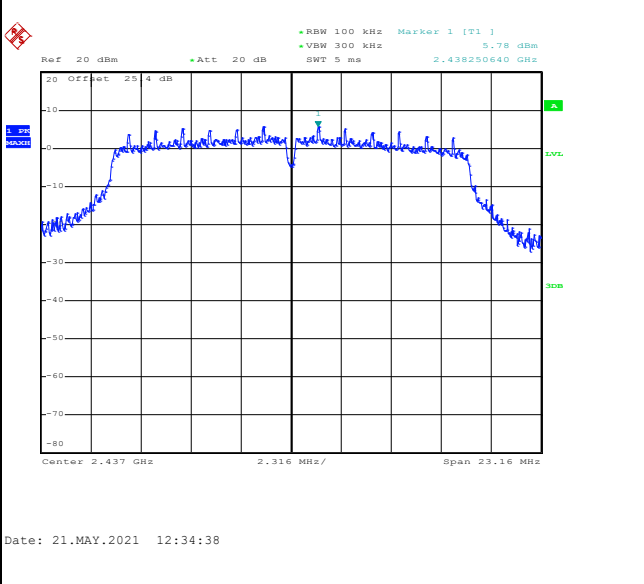
Test Mode :	802.11g	Test Channel :	01
-------------	---------	----------------	----



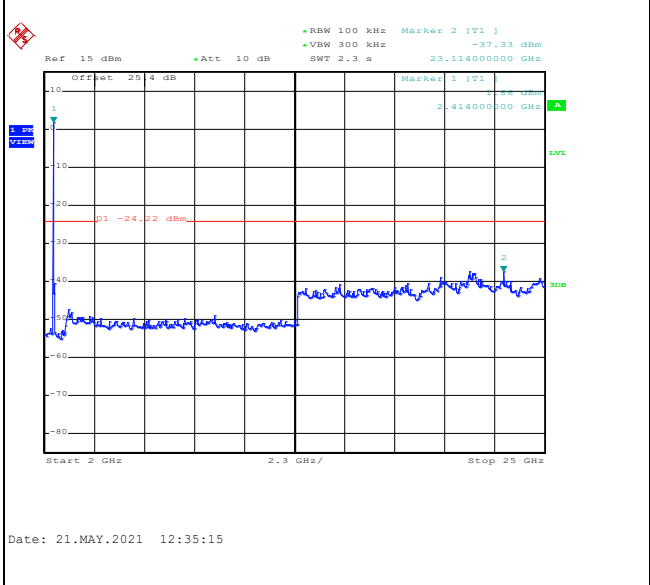
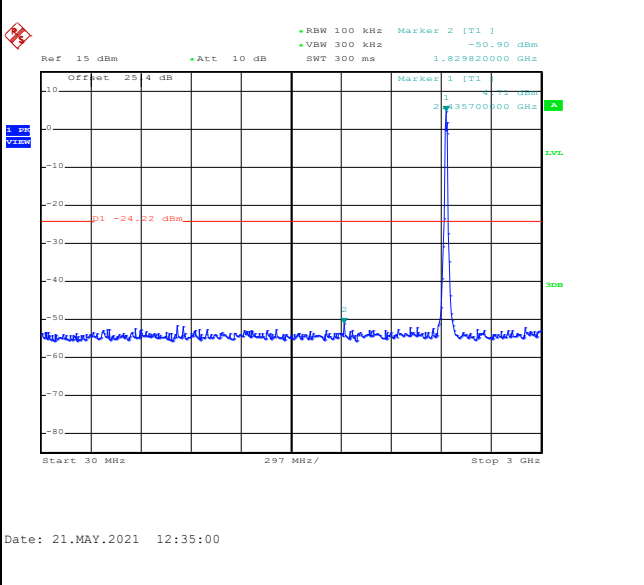


Test Mode :	802.11g	Test Channel :	06
-------------	---------	----------------	----

100kHz PSD reference Level	Mid Channel Plot
-----------------------------------	-------------------------

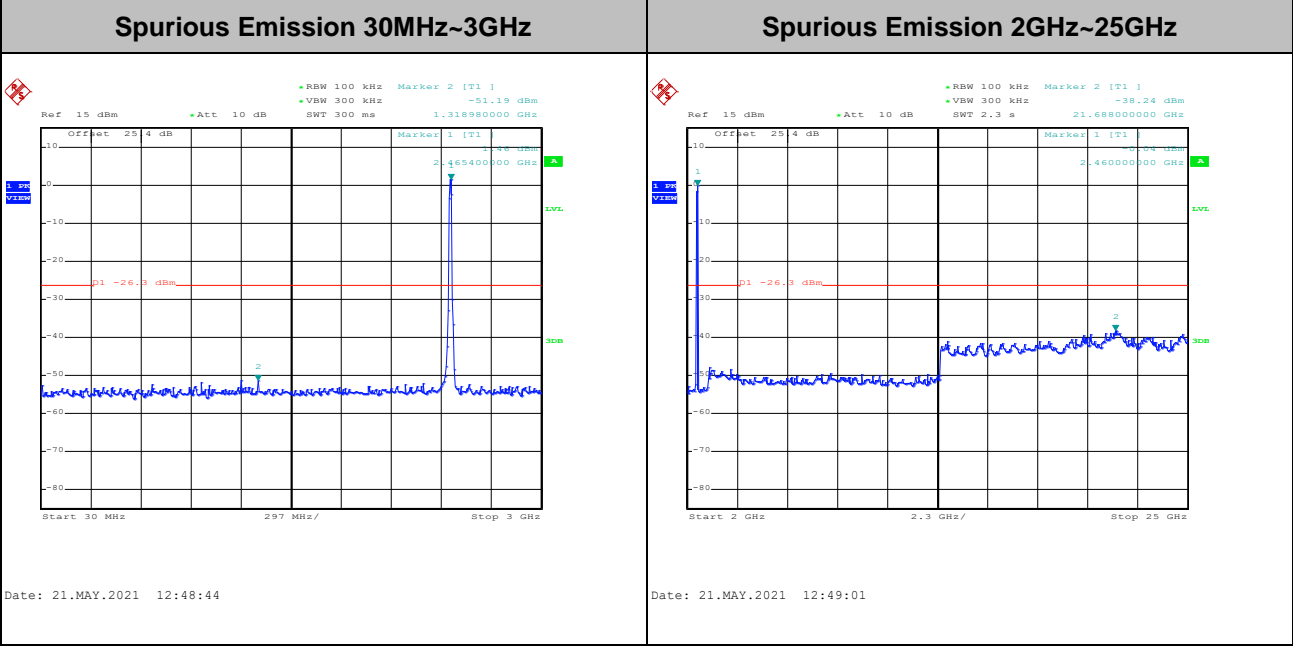
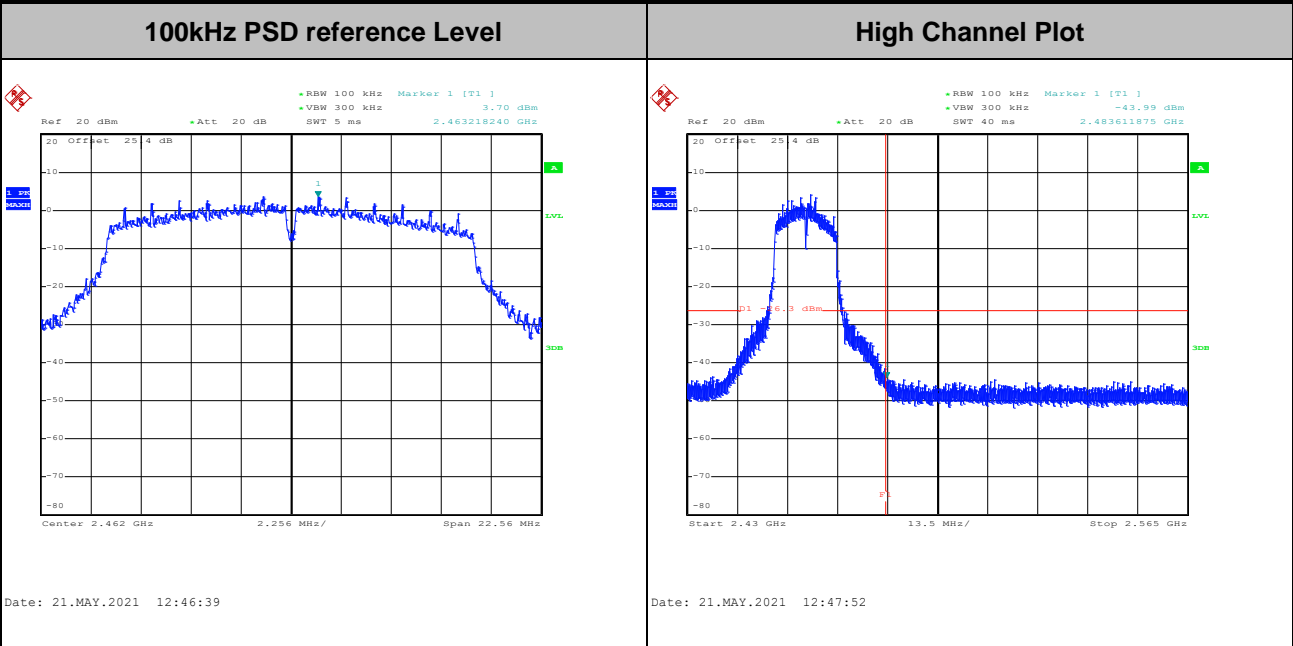


Spurious Emission 30MHz~3GHz	Spurious Emission 2GHz~25GHz
-------------------------------------	-------------------------------------





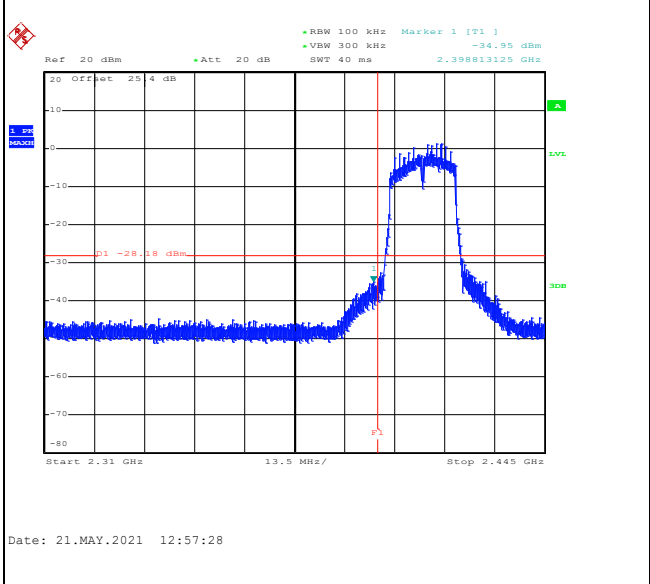
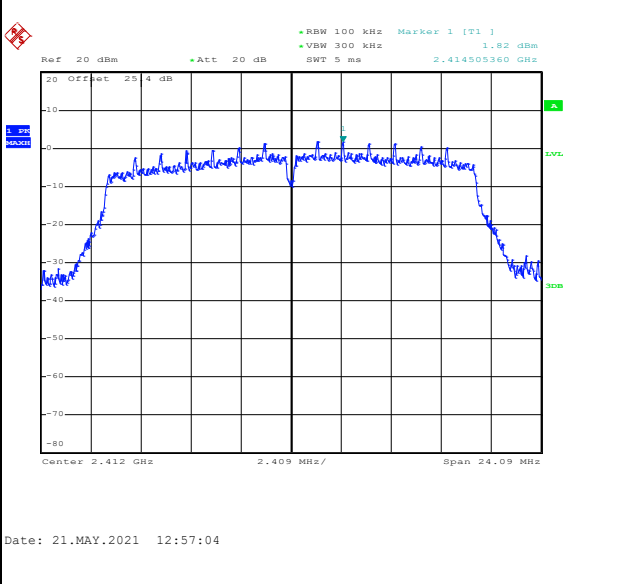
Test Mode :	802.11g	Test Channel :	11
-------------	---------	----------------	----



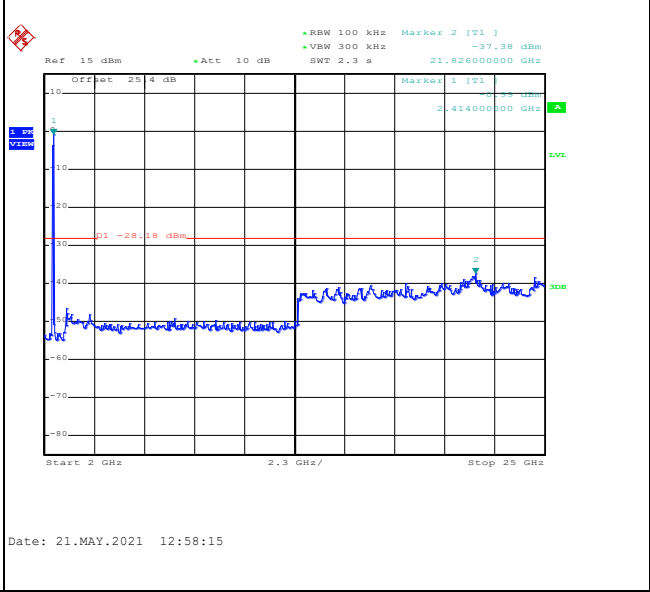
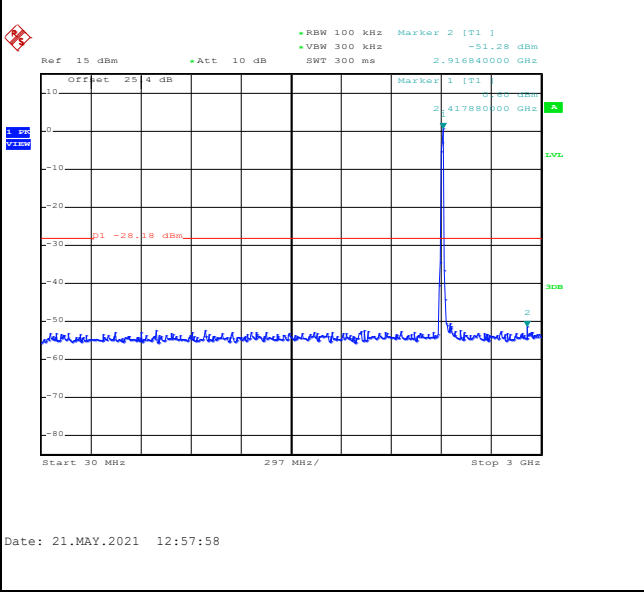


Test Mode :	802.11n HT20	Test Channel :	01
-------------	--------------	----------------	----

100kHz PSD reference Level	Low Channel Plot
-----------------------------------	-------------------------



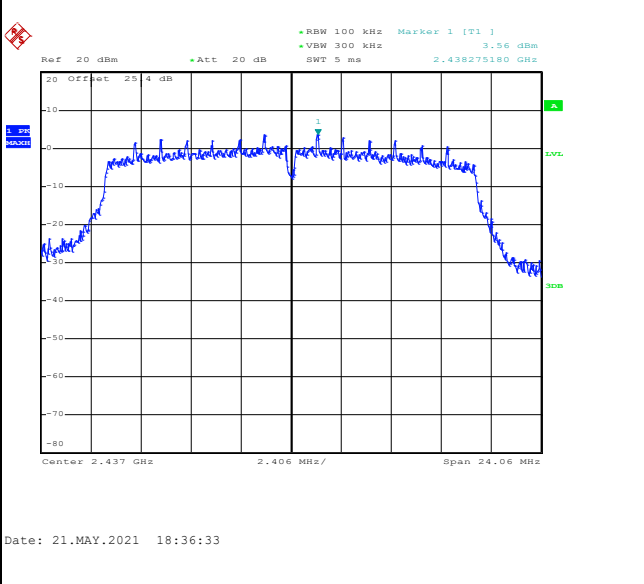
Spurious Emission 30MHz~3GHz	Spurious Emission 2GHz~25GHz
-------------------------------------	-------------------------------------



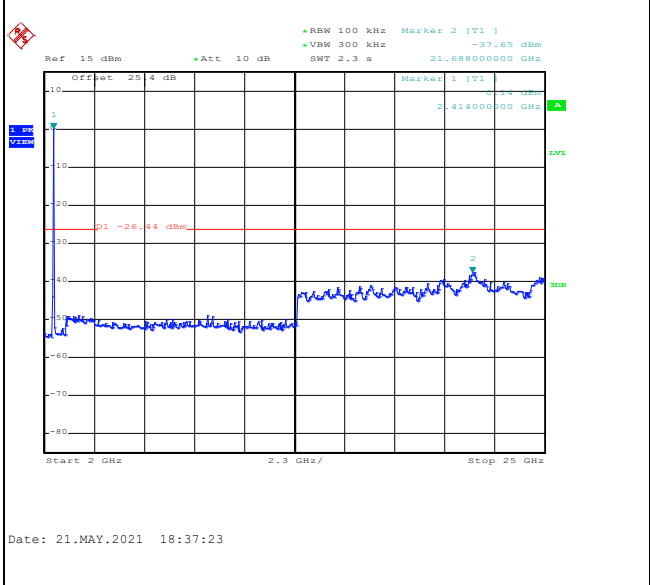
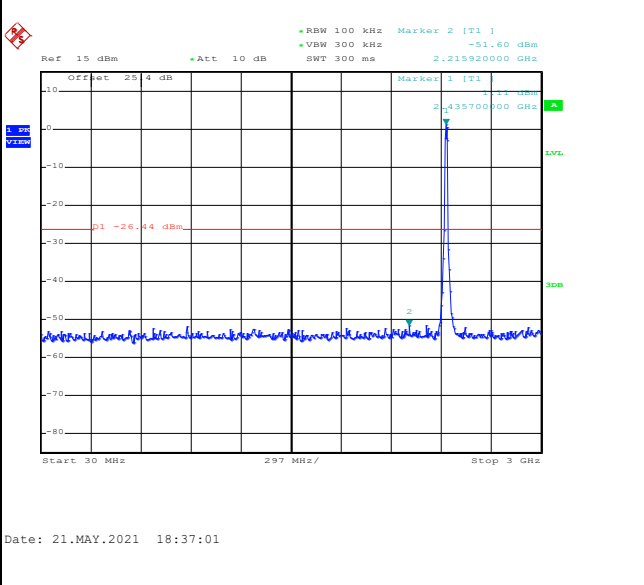


Test Mode :	802.11n HT20	Test Channel :	06
-------------	--------------	----------------	----

100kHz PSD reference Level	Mid Channel Plot
-----------------------------------	-------------------------

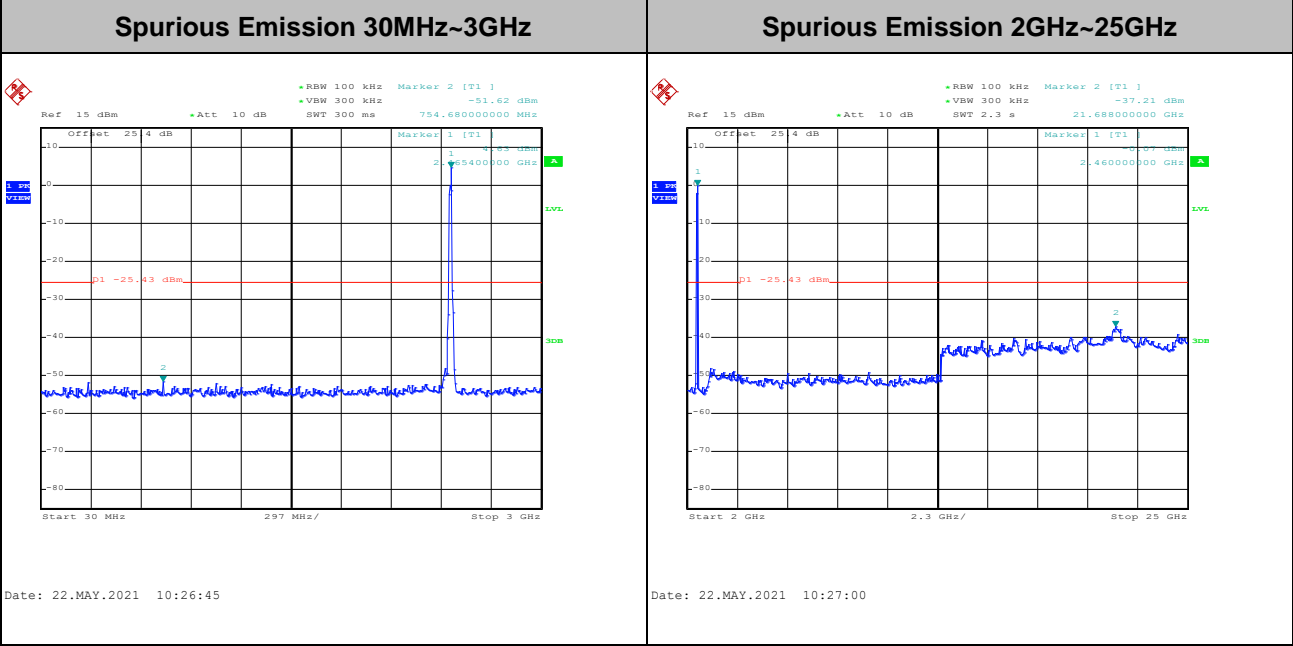
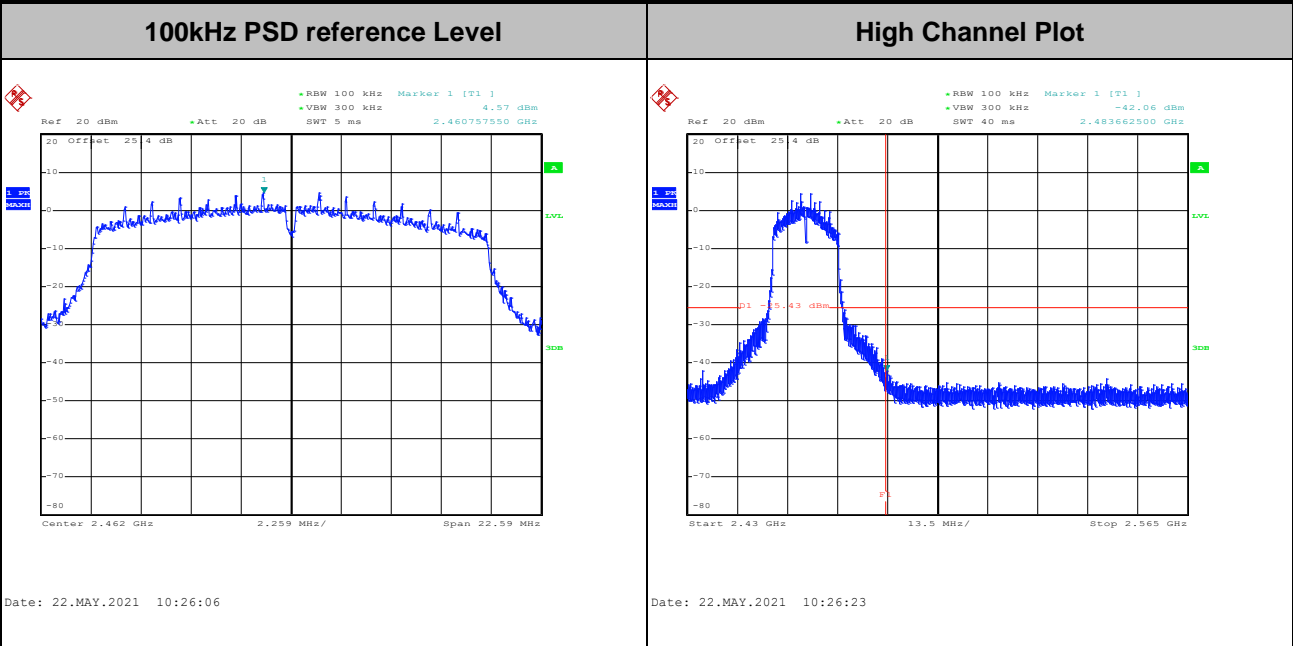


Spurious Emission 30MHz~3GHz	Spurious Emission 2GHz~25GHz
-------------------------------------	-------------------------------------



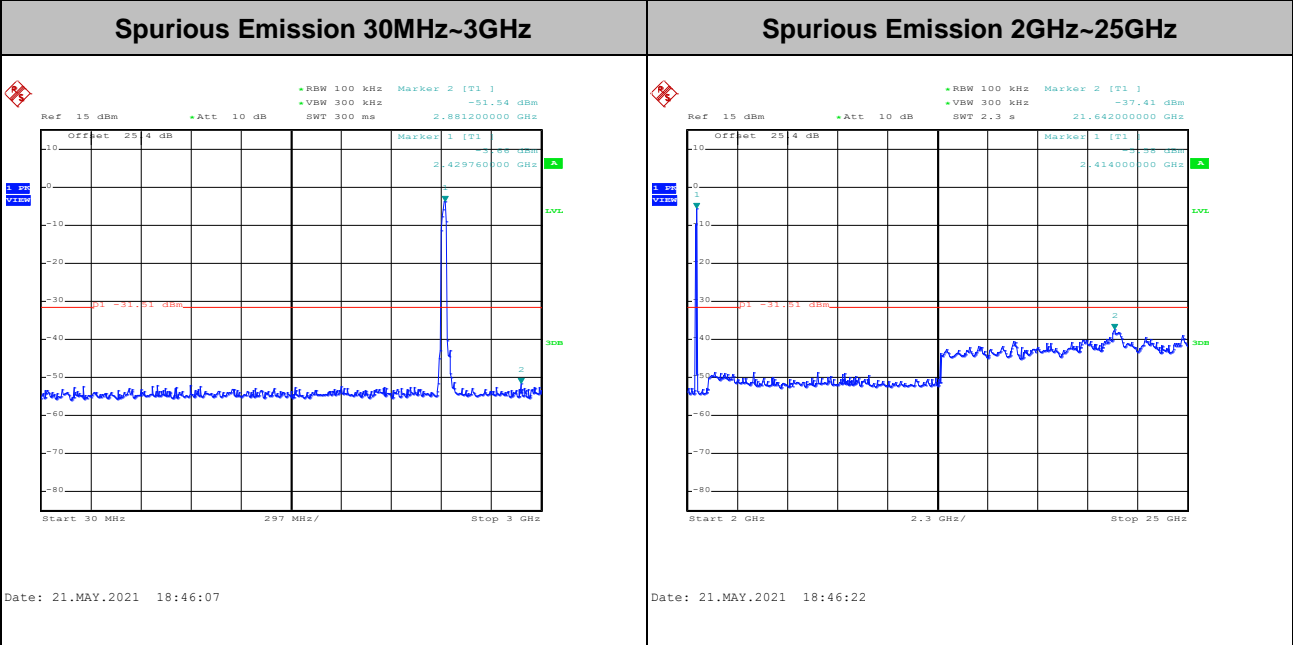
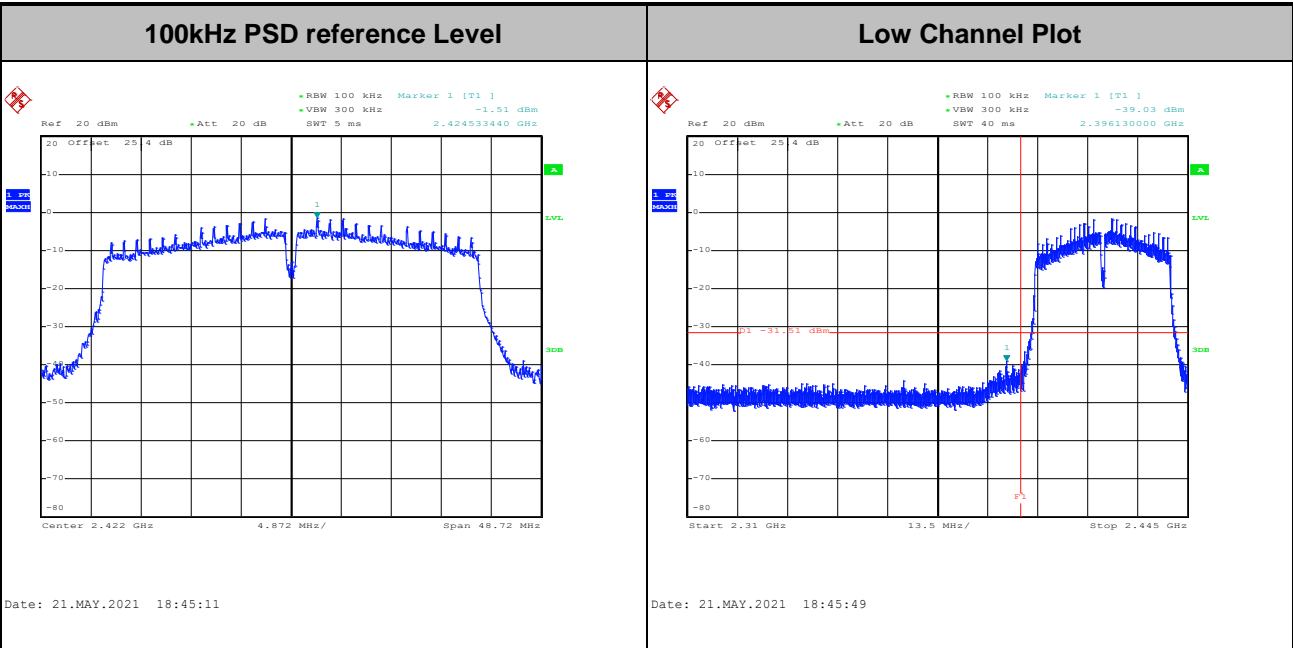


Test Mode :	802.11n HT20	Test Channel :	11
-------------	--------------	----------------	----



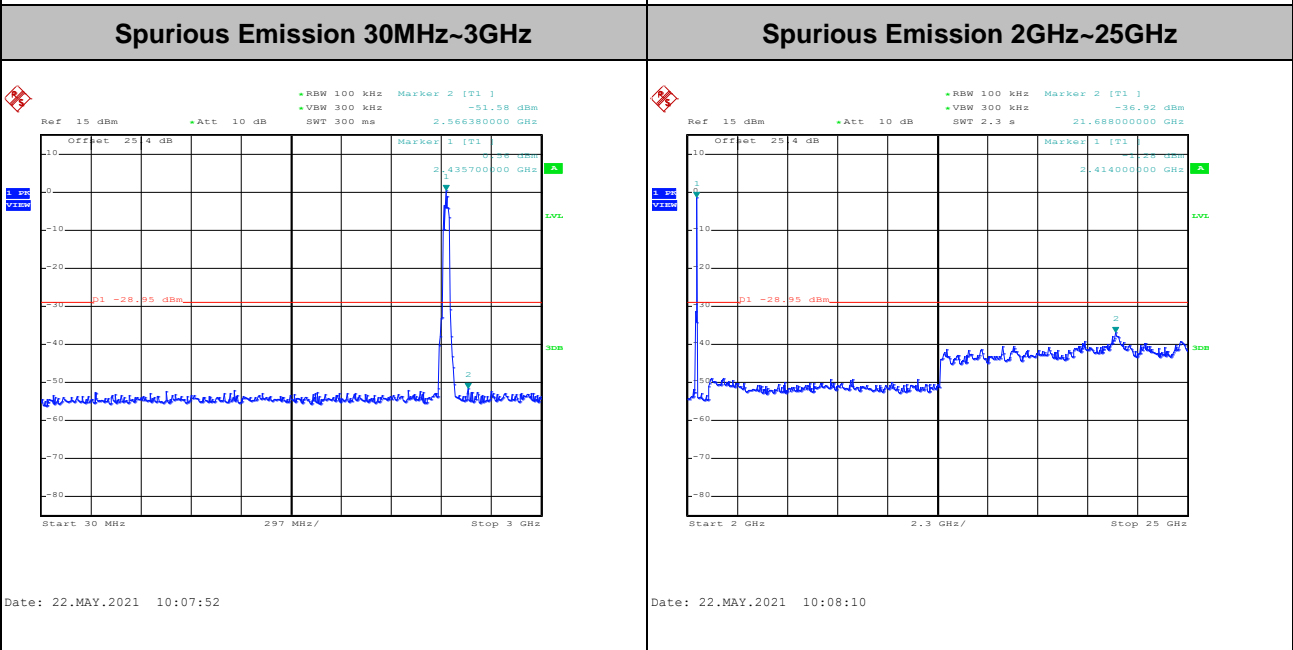
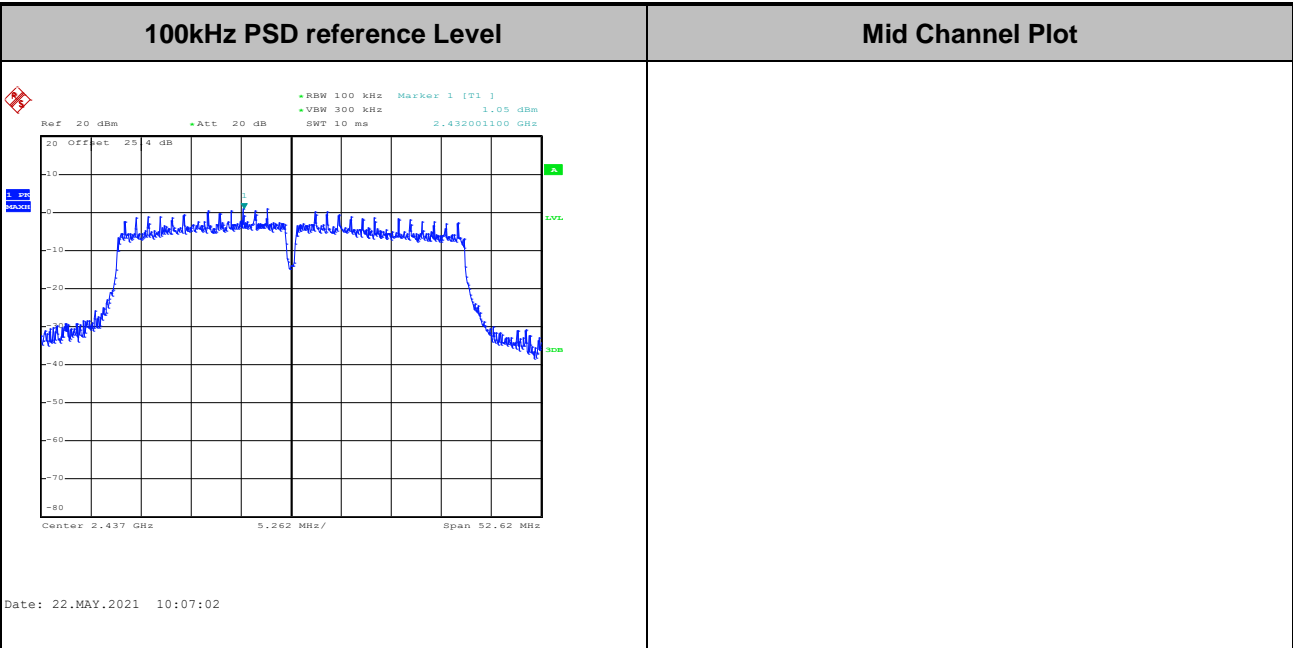


Test Mode :	802.11n HT40	Test Channel :	03
-------------	--------------	----------------	----



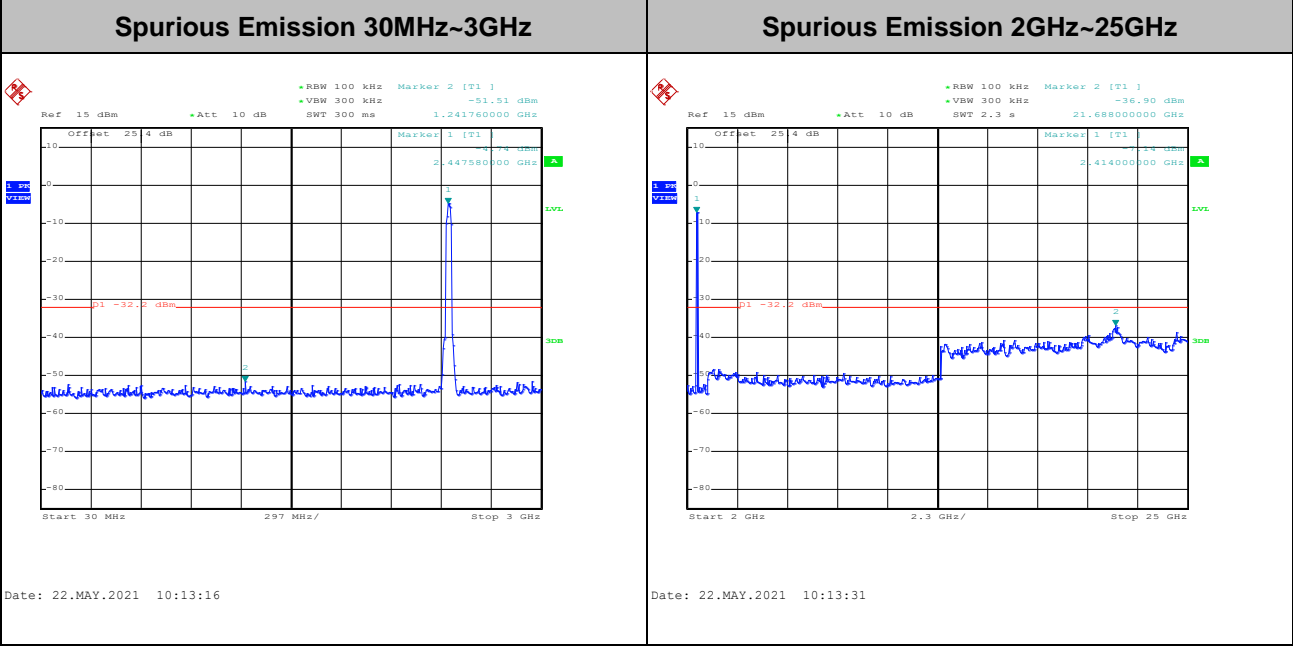
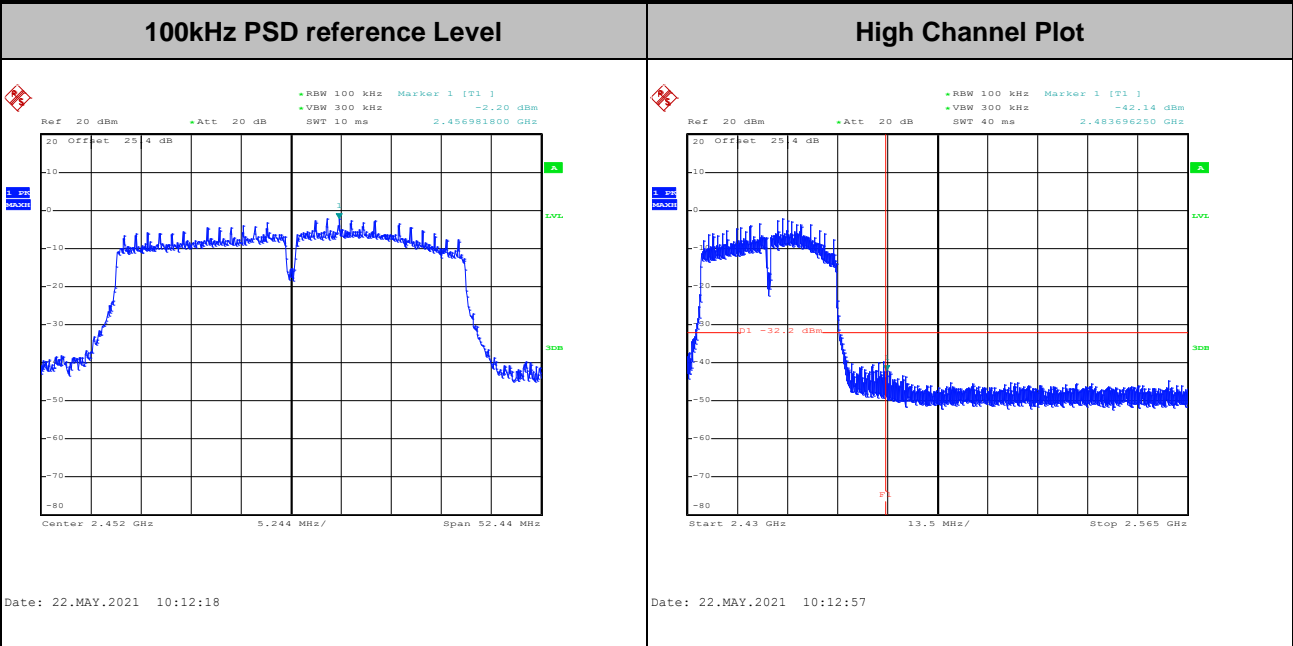


Test Mode :	802.11n HT40	Test Channel :	06
-------------	--------------	----------------	----





Test Mode :	802.11n HT40	Test Channel :	09
-------------	--------------	----------------	----





3.5 Radiated Band Edges and Spurious Emission Measurement

3.5.1 Limit of Radiated band edge and Spurious Emission Measurement

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

Frequency (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009 – 0.490	2400/F(kHz)	300
0.490 – 1.705	24000/F(kHz)	30
1.705 – 30.0	30	30
30 – 88	100	3
88 – 216	150	3
216 - 960	200	3
Above 960	500	3

3.5.2 Measuring Instruments

See list of measuring equipment of this test report.

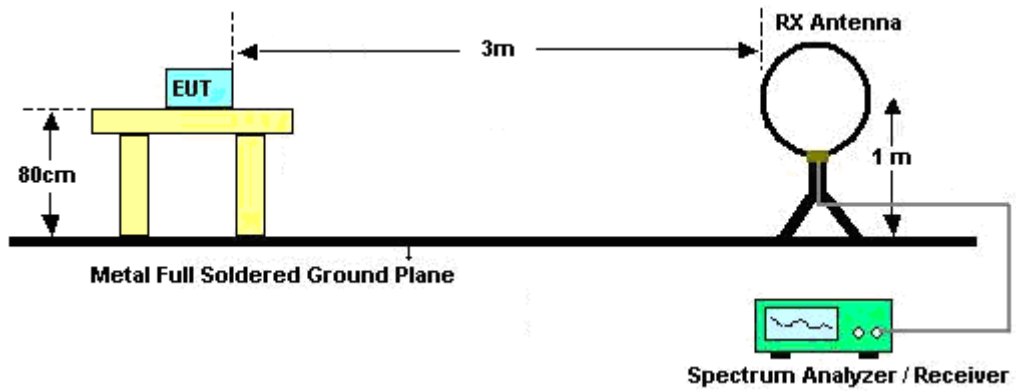


3.5.3 Test Procedures

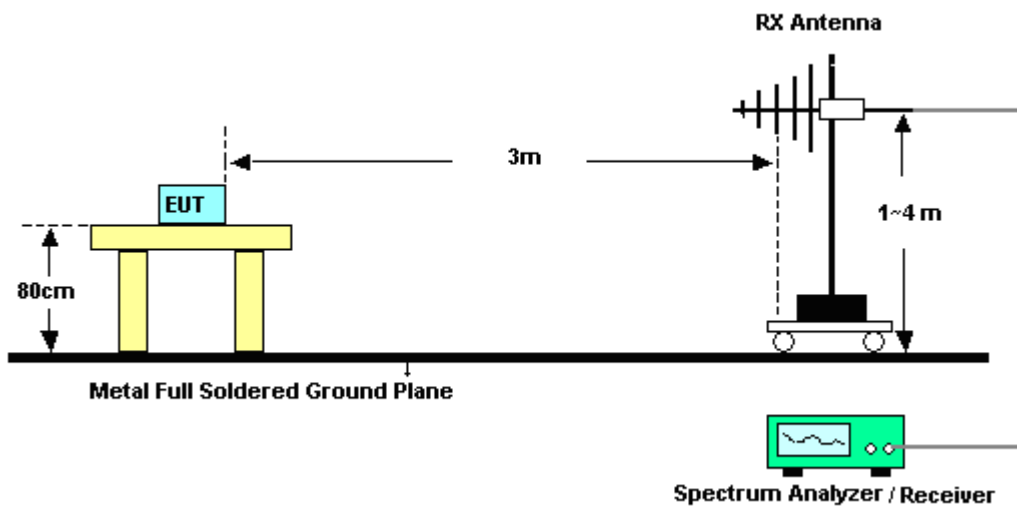
1. The testing follows the ANSI C63.10 Section 11.12.1 Radiated emission measurements.
2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level.
3. The EUT was 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 was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
5. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level
6. For testing below 1 GHz, if the emission level of the EUT in peak mode was 3 dB lower than the limit specified, then peak values of EUT will be reported, otherwise, the emissions will be repeated one by one using the CISPR quasi-peak method and reported.
7. For testing above 1 GHz, the emission level of the EUT in peak mode was 20 dB lower than average limit (that means the emission level in average mode also complies with the limit in average mode), then peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
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.

3.5.4 Test Setup

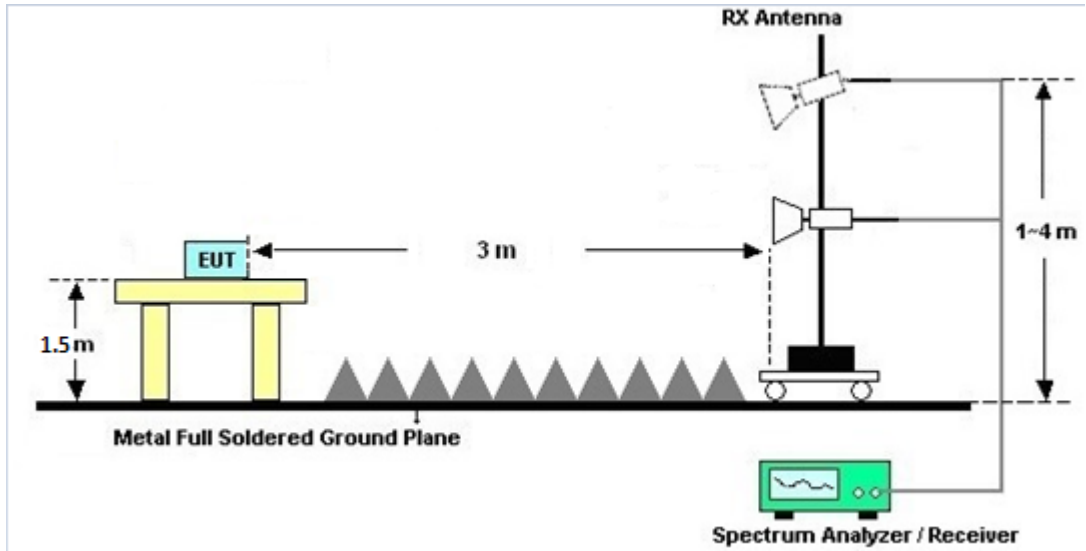
For radiated emissions below 30MHz



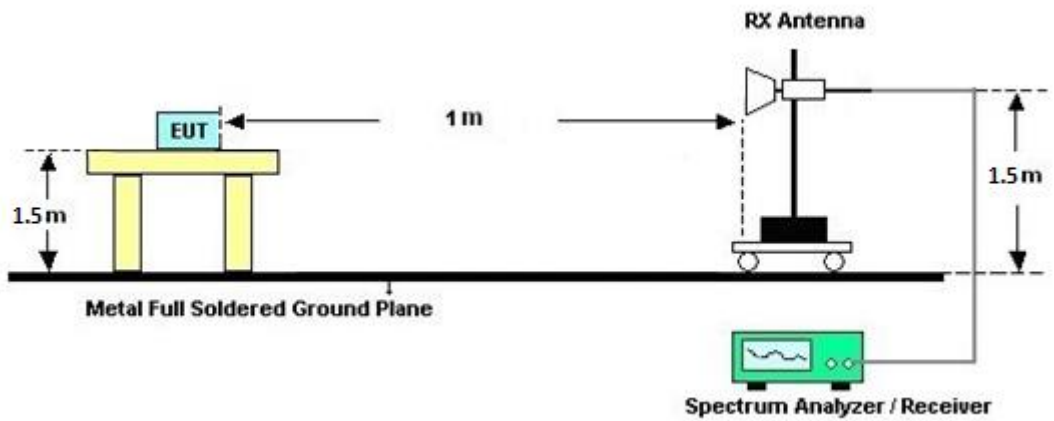
For radiated emissions from 30MHz to 1GHz



For radiated test from 1GHz to 18GHz



For radiated test above 18GHz





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

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

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

3.5.6 Test Result of Radiated Spurious at Band Edges

Please refer to Appendix C and D.

3.5.7 Duty Cycle

Please refer to Appendix E.

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

Please refer to Appendix C and D.

3.6 AC Conducted Emission Measurement

3.6.1 Limit of AC Conducted Emission

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

Frequency of Emission (MHz)	Conducted Limit (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.

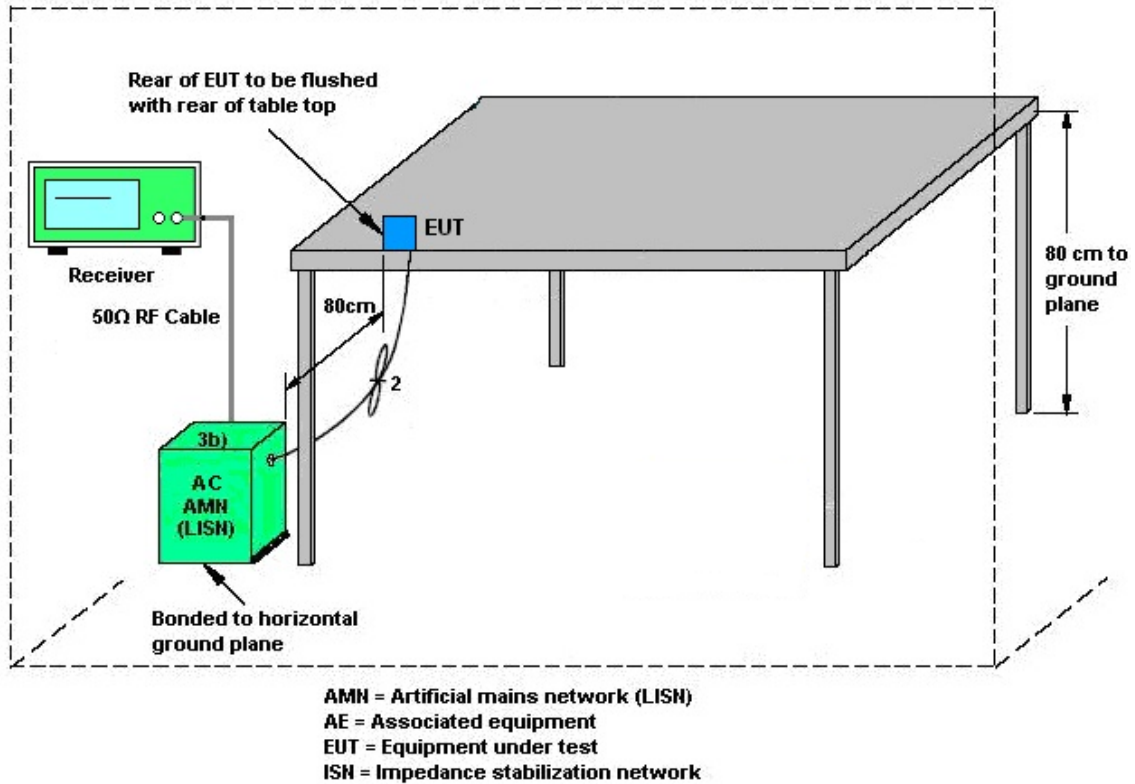
3.6.2 Measuring Instruments

See list of measuring equipment of this test report.

3.6.3 Test Procedures

1. The EUT was placed 0.4 meter from the conducting wall of the shielding room, and it was 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 sides of AC line were checked for maximum conducted interference.
7. The frequency range from 150 kHz to 30 MHz was searched.
8. Set the test-receiver system to Peak Detect Function and specified bandwidth (IF bandwidth = 9kHz) with Maximum Hold Mode.

3.6.4 Test Setup



3.6.5 Test Result of AC Conducted Emission

Please refer to Appendix B.



3.7 Antenna Requirements

3.7.1 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.

3.7.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.

3.7.3 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
AC Power Source	ACPOWER	AFC-11003G	F317040033	N/A	N/A	May 13, 2021	N/A	Conduction (CO07-HY)
Software	Rohde & Schwarz	EMC32 V10.30	N/A	N/A	N/A	May 13, 2021	N/A	Conduction (CO07-HY)
Pulse Limiter	SCHWARZBECK	VTSD 9561-F N	9561-F N00373	9kHz-200MHz	Nov. 02, 2020	May 13, 2021	Nov. 01, 2021	Conduction (CO07-HY)
RF Cable	HUBER + SUHNER	RG 214/U	1358175	9kHz~30MHz	N/A	May 13, 2021	N/A	Conduction (CO07-HY)
Two-Line V-Network	TESEQ	NNB 51	45051	N/A	Feb. 01, 2021	May 13, 2021	Jan. 31, 2022	Conduction (CO07-HY)
EMI Test Receiver	Rohde & Schwarz	ESR3	102317	9kHz~3.6GHz	Sep. 11, 2020	May 13, 2021	Sep. 10, 2021	Conduction (CO07-HY)
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100488	9 kHz~30 MHz	Jul. 14, 2020	May 14, 2021 ~ May 19, 2021	Jul. 13, 2021	Radiation (03CH15-HY)
Bilog Antenna	TESEQ	CBL 6111D & 00800N1D01N-06	41912 & 05	30MHz~1GHz	Feb. 08, 2021	May 14, 2021 ~ May 19, 2021	Feb. 07, 2022	Radiation (03CH15-HY)
Amplifier	SONOMA	310N	363440	9kHz~1GHz	Dec. 28, 2020	May 14, 2021 ~ May 19, 2021	Dec. 27, 2021	Radiation (03CH15-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-01620	1GHz~18GHz	Nov. 03, 2020	May 14, 2021 ~ May 19, 2021	Nov. 02, 2021	Radiation (03CH15-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA917025 1	18GHz~40GHz	Dec. 02, 2020	May 14, 2021 ~ May 19, 2021	Dec. 01, 2021	Radiation (03CH15-HY)
Preamplifier	Jet-Power	JPA0118-55-303	17100018000 55006	1GHz~18GHz	May 06, 2021	May 14, 2021 ~ May 19, 2021	May 05, 2022	Radiation (03CH15-HY)
Preamplifier	Keysight	83017A	MY53270195	1GHz~26.5GHz	Aug. 21, 2020	May 14, 2021 ~ May 19, 2021	Aug. 20, 2021	Radiation (03CH15-HY)
Preamplifier	EMEC	EM18G40G	0600789	18-40GHz	Oct. 27, 2020	May 14, 2021 ~ May 19, 2021	Oct. 26, 2021	Radiation (03CH15-HY)
EMI Test Receiver	Keysight	N9038A(MXE)	MY54130085	20MHz~8.4GHz	Nov. 02, 2020	May 14, 2021 ~ May 19, 2021	Nov. 01, 2021	Radiation (03CH15-HY)
Spectrum Analyzer	Keysight	N9010A	MY54200486	10Hz~44GHz	Oct. 23, 2020	May 14, 2021 ~ May 19, 2021	Oct. 22, 2021	Radiation (03CH15-HY)
Antenna Mast	ChainTek	MBS-520-1	N/A	1m~4m	N/A	May 14, 2021 ~ May 19, 2021	N/A	Radiation (03CH15-HY)
Turn Table	ChainTek	T-200-S-1	N/A	0~360 Degree	N/A	May 14, 2021 ~ May 19, 2021	N/A	Radiation (03CH15-HY)
Software	Audix	E3 6.2009-8-24 (k5)	RK-000451	N/A	N/A	May 14, 2021 ~ May 19, 2021	N/A	Radiation (03CH15-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104, 102E	MY36980/4, MY9838/4PE, 508405/2E	30MHz~18G	Nov. 16, 2020	May 14, 2021 ~ May 19, 2021	Nov. 15, 2021	Radiation (03CH15-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	505134/2	30MHz-40GHz	Feb. 22, 2021	May 14, 2021 ~ May 19, 2021	Feb. 21, 2022	Radiation (03CH15-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	800740/2	30MHz-40GHz	Feb. 22, 2021	May 14, 2021 ~ May 19, 2021	Feb. 21, 2022	Radiation (03CH15-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY9837/4PE	9kHz~30MHz	Mar. 11, 2021	May 14, 2021 ~ May 19, 2021	Mar. 10, 2022	Radiation (03CH15-HY)
Filter	Wainwright	WLJ4-1000-15 30-6000-40ST	SN4	1.53GHz Low Pass Filter	Jul. 03, 2020	May 14, 2021 ~ May 19, 2021	Jul. 02, 2021	Radiation (03CH15-HY)
Filter	Wainwright	WHKX12-2700 -3000-18000-6 0ST	SN4	3GHz High Pass Filter	Sep. 16, 2020	May 14, 2021 ~ May 19, 2021	Sep. 15, 2021	Radiation (03CH15-HY)



Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Power Sensor	DARE	RPR3006W	16I00054SNO 12	10MHz~6GHz	Dec. 16, 2020	May 05, 2021 ~ May 22, 2021	Dec. 15, 2021	Conducted (TH05-HY)
Spectrum Analyzer	Rohde & Schwarz	FSP40	100055	9kHz-40GHz	Jan. 21, 2021	May 05, 2021 ~ May 22, 2021	Jan. 20, 2022	Conducted (TH05-HY)
Switch Box & RF Cable	Burgeon	ETF058	EC1300484	N/A	Nov. 19, 2020	May 05, 2021 ~ May 22, 2021	Nov. 18, 2021	Conducted (TH05-HY)



5 Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	2.2
---	-----

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.7
---	-----

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

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

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.9
---	-----

Appendix A. Test Result of Conducted Test Items

Test Engineer:	Mina Liu	Temperature:	21~25	°C
Test Date:	2021/5/5~2021/05/22	Relative Humidity:	51~54	%

TEST RESULTS DATA
6dB and 99% Occupied Bandwidth

2.4GHz Band Single Antenna										
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Occupied BW (MHz)		6dB BW (MHz)		6dB BW Limit (MHz)	Pass/Fail
					Ant1	Ant2	Ant1	Ant2		
11b	1Mbps	1	1	2412	12.85	-	8.52	-	0.50	Pass
11b	1Mbps	1	6	2437	13.05	-	8.50	-	0.50	Pass
11b	1Mbps	1	11	2462	12.50	-	7.54	-	0.50	Pass
11g	6Mbps	1	1	2412	16.70	-	15.64	-	0.50	Pass
11g	6Mbps	1	6	2437	16.95	-	15.44	-	0.50	Pass
11g	6Mbps	1	11	2462	16.50	-	15.04	-	0.50	Pass
HT20	MCS0	1	1	2412	17.75	-	16.06	-	0.50	Pass
HT20	MCS0	1	6	2437	17.90	-	16.04	-	0.50	Pass
HT20	MCS0	1	11	2462	17.55	-	15.06	-	0.50	Pass
HT40	MCS0	1	3	2422	35.90	-	32.48	-	0.50	Pass
HT40	MCS0	1	6	2437	36.60	-	35.08	-	0.50	Pass
HT40	MCS0	1	9	2452	36.10	-	34.96	-	0.50	Pass

TEST RESULTS DATA
Average Output Power

2.4GHz Band Single Antenna															
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Conducted Power (dBm)		Conducted Power Limit (dBm)		DG (dBi)		EIRP Power (dBm)		EIRP Power Limit (dBm)		Pass /Fail
					Ant1	Ant2	Ant1	Ant2	Ant1	Ant2	Ant1	Ant2	Ant1	Ant2	
11b	1Mbps	1	1	2412	14.70	-	30.00	-	-2.70	-	12.00	-	36.00	-	Pass
11b	1Mbps	1	6	2437	15.20	-	30.00	-	-2.70	-	12.50	-	36.00	-	Pass
11b	1Mbps	1	11	2462	15.20	-	30.00	-	-2.70	-	12.50	-	36.00	-	Pass
11g	6Mbps	1	1	2412	14.20	-	30.00	-	-2.70	-	11.50	-	36.00	-	Pass
11g	6Mbps	1	6	2437	16.90	-	30.00	-	-2.70	-	14.20	-	36.00	-	Pass
11g	6Mbps	1	11	2462	14.80	-	30.00	-	-2.70	-	12.10	-	36.00	-	Pass
HT20	MCS0	1	1	2412	12.70	-	30.00	-	-2.70	-	10.00	-	36.00	-	Pass
HT20	MCS0	1	6	2437	14.80	-	30.00	-	-2.70	-	12.10	-	36.00	-	Pass
HT20	MCS0	1	11	2462	14.90	-	30.00	-	-2.70	-	12.20	-	36.00	-	Pass
HT40	MCS0	1	3	2422	11.80	-	30.00	-	-2.70	-	9.10	-	36.00	-	Pass
HT40	MCS0	1	6	2437	14.90	-	30.00	-	-2.70	-	12.20	-	36.00	-	Pass
HT40	MCS0	1	9	2452	11.10	-	30.00	-	-2.70	-	8.40	-	36.00	-	Pass

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

TEST RESULTS DATA
Peak Power Spectral Density

2.4GHz Band Single Antenna											
Mod.	Data Rate	N _{TX}	CH.	Freq. (MHz)	Peak PSD (dBm/3kHz)		DG (dBi)		Peak PSD Limit (dBm/3kHz)		Pass/Fail
					Ant1	Ant2	Ant1	Ant2	Ant1	Ant2	
11b	1Mbps	1	1	2412	-8.39	-	-2.70	-	8.00	-	Pass
11b	1Mbps	1	6	2437	-7.64	-	-2.70	-	8.00	-	Pass
11b	1Mbps	1	11	2462	-7.82	-	-2.70	-	8.00	-	Pass
11g	6Mbps	1	1	2412	-9.92	-	-2.70	-	8.00	-	Pass
11g	6Mbps	1	6	2437	-7.53	-	-2.70	-	8.00	-	Pass
11g	6Mbps	1	11	2462	-9.78	-	-2.70	-	8.00	-	Pass
HT20	MCS0	1	1	2412	-13.12	-	-2.70	-	8.00	-	Pass
HT20	MCS0	1	6	2437	-10.91	-	-2.70	-	8.00	-	Pass
HT20	MCS0	1	11	2462	-10.50	-	-2.70	-	8.00	-	Pass
HT40	MCS0	1	3	2422	-16.30	-	-2.70	-	8.00	-	Pass
HT40	MCS0	1	6	2437	-13.55	-	-2.70	-	8.00	-	Pass
HT40	MCS0	1	9	2452	-16.83	-	-2.70	-	8.00	-	Pass

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



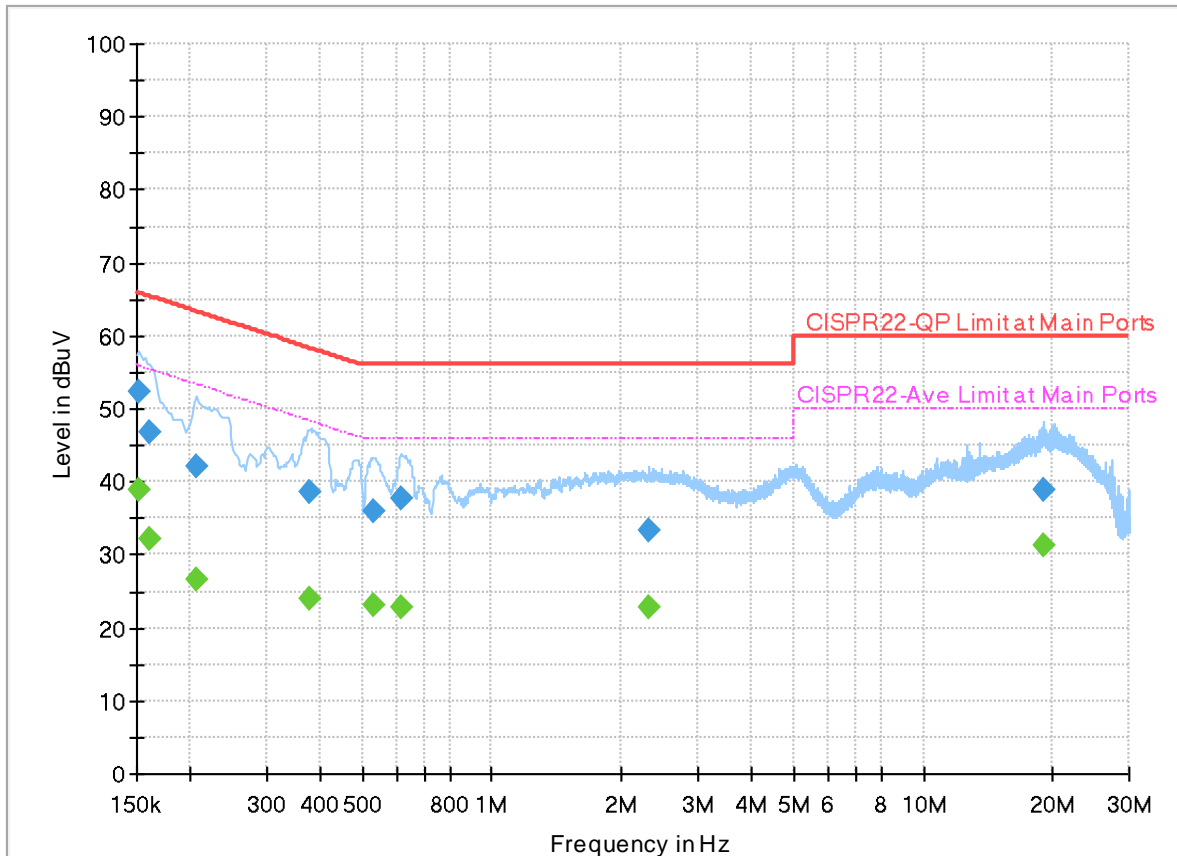
Appendix B. AC Conducted Emission Test Results

Test Engineer :	Tom Lee	Temperature :	23~26°C
		Relative Humidity :	40~50%

EUT Information

Report NO : 142608
 Test Mode : Mode 1
 Test Voltage : 120Vac/60Hz
 Phase : Line

Full Spectrum



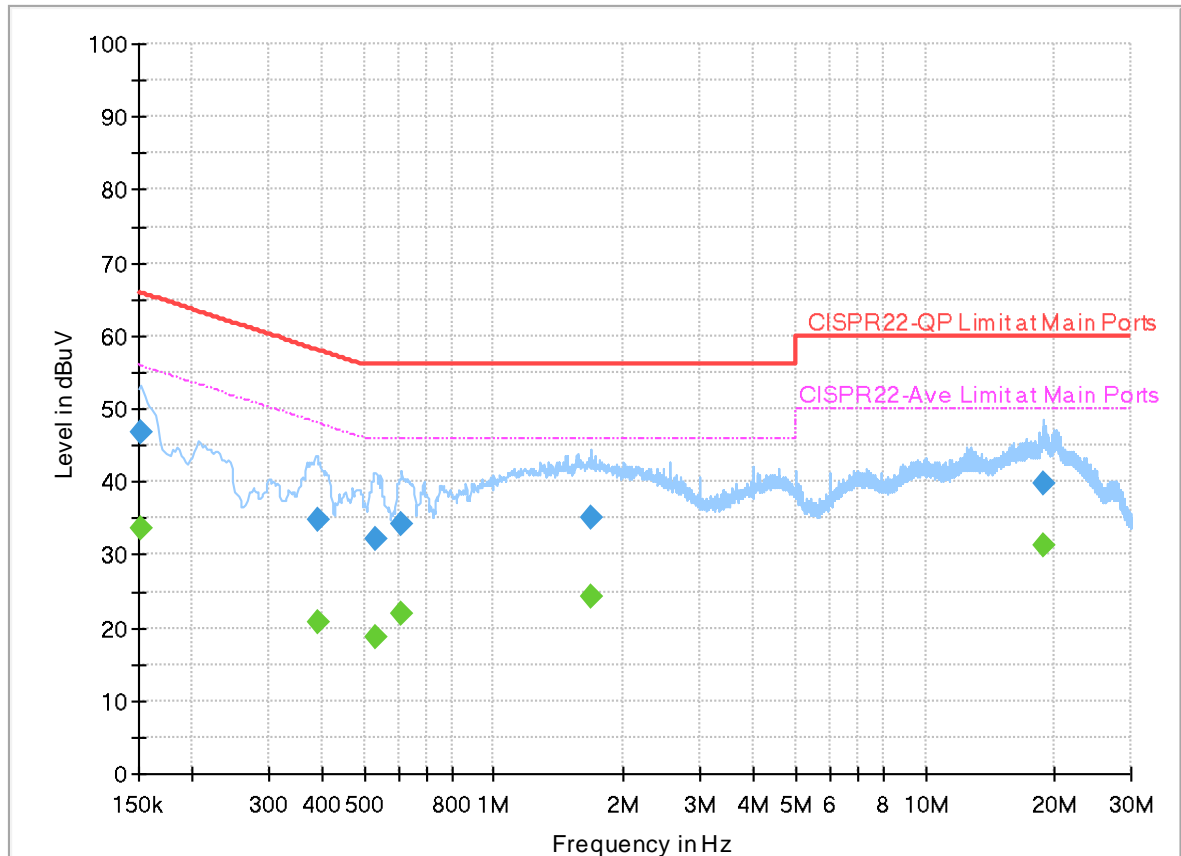
Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.152250	---	38.84	55.88	17.04	L1	OFF	20.0
0.152250	52.28	---	65.88	13.60	L1	OFF	20.0
0.161250	---	32.22	55.40	23.18	L1	OFF	20.0
0.161250	46.84	---	65.40	18.56	L1	OFF	20.0
0.206250	---	26.52	53.36	26.84	L1	OFF	20.0
0.206250	42.00	---	63.36	21.36	L1	OFF	20.0
0.379500	---	23.89	48.29	24.40	L1	OFF	20.0
0.379500	38.59	---	58.29	19.70	L1	OFF	20.0
0.530250	---	23.21	46.00	22.79	L1	OFF	20.0
0.530250	36.02	---	56.00	19.98	L1	OFF	20.0
0.613500	---	22.89	46.00	23.11	L1	OFF	20.0
0.613500	37.72	---	56.00	18.28	L1	OFF	20.0
2.307750	---	22.83	46.00	23.17	L1	OFF	20.1
2.307750	33.19	---	56.00	22.81	L1	OFF	20.1
19.104000	---	31.25	50.00	18.75	L1	OFF	20.2
19.104000	38.96	---	60.00	21.04	L1	OFF	20.2

EUT Information

Report NO : 142608
 Test Mode : Mode 1
 Test Voltage : 120Vac/60Hz
 Phase : Neutral

Full Spectrum



Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.152250	---	33.64	55.88	22.24	N	OFF	20.0
0.152250	46.75	---	65.88	19.13	N	OFF	20.0
0.388500	---	20.80	48.10	27.30	N	OFF	20.0
0.388500	34.86	---	58.10	23.24	N	OFF	20.0
0.530250	---	18.58	46.00	27.42	N	OFF	20.0
0.530250	32.23	---	56.00	23.77	N	OFF	20.0
0.611250	---	21.84	46.00	24.16	N	OFF	20.0
0.611250	34.16	---	56.00	21.84	N	OFF	20.0
1.686750	---	24.14	46.00	21.86	N	OFF	20.0
1.686750	35.21	---	56.00	20.79	N	OFF	20.0
18.827250	---	31.15	50.00	18.85	N	OFF	20.3
18.827250	39.70	---	60.00	20.30	N	OFF	20.3



Appendix C. Radiated Spurious Emission

Test Engineer :	Leo Lee, Mancy Chou, and Bigshow Wang	Temperature :	22.1~23.1°C
		Relative Humidity :	55~60%

2.4GHz 2400~2483.5MHz

WIFI 802.11b (Band Edge @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.	
		(MHz)	(dBµV/m)	(dB)	Limit Line	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)	
802.11b CH 01 2412MHz		2387.7	54.71	-19.29	74	41.52	27.55	16.56	30.92	100	52	P	H	
		2387.7	44.21	-9.79	54	31.02	27.55	16.56	30.92	100	52	A	H	
	*	2412	105.82	-	-	92.63	27.5	16.6	30.91	100	52	P	H	
	*	2412	102.9	-	-	89.71	27.5	16.6	30.91	100	52	A	H	
													H	
													H	
			2338.77	55.06	-18.94	74	41.8	27.72	16.48	30.94	312	87	P	V
			2388.33	44	-10	54	30.81	27.55	16.56	30.92	312	87	A	V
	*		2412	105.11	-	-	91.92	27.5	16.6	30.91	312	87	P	V
	*		2412	102.18	-	-	88.99	27.5	16.6	30.91	312	87	A	V
														V
														V
802.11b CH 06 2437MHz		2312.08	56.04	-17.96	74	42.78	27.78	16.43	30.95	100	54	P	H	
		2389.68	44.03	-9.97	54	30.85	27.54	16.56	30.92	100	54	A	H	
	*	2437	106.48	-	-	93.24	27.5	16.64	30.9	100	54	P	H	
	*	2437	103.35	-	-	90.11	27.5	16.64	30.9	100	54	A	H	
			2488.12	54.78	-19.22	74	41.51	27.42	16.72	30.87	100	54	P	H
			2483.53	43.99	-10.01	54	30.73	27.43	16.71	30.88	100	54	A	H
			2349.36	55.17	-18.83	74	41.9	27.7	16.5	30.93	322	100	P	V
			2389.84	43.83	-10.17	54	30.65	27.54	16.56	30.92	322	100	A	V
	*		2437	105.7	-	-	92.46	27.5	16.64	30.9	322	100	P	V
	*		2437	102.59	-	-	89.35	27.5	16.64	30.9	322	100	A	V
			2491.09	54.66	-19.34	74	41.39	27.42	16.72	30.87	322	100	P	V
			2484.88	43.96	-10.04	54	30.7	27.43	16.71	30.88	322	100	A	V



802.11b CH 11 2462MHz	*	2462	106.74	-	-	93.47	27.48	16.68	30.89	100	49	P	H
	*	2462	103.65	-	-	90.38	27.48	16.68	30.89	100	49	A	H
		2490.36	55.43	-18.57	74	42.16	27.42	16.72	30.87	100	49	P	H
		2486.64	44.18	-9.82	54	30.92	27.43	16.71	30.88	100	49	A	H
													H
													H
	*	2462	106.46	-	-	93.19	27.48	16.68	30.89	328	98	P	V
	*	2462	103.33	-	-	90.06	27.48	16.68	30.89	328	98	A	V
		2485.76	55.1	-18.9	74	41.84	27.43	16.71	30.88	328	98	P	V
		2487.04	44.07	-9.93	54	30.81	27.43	16.71	30.88	328	98	A	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



**2.4GHz 2400~2483.5MHz
WIFI 802.11b (Harmonic @ 3m)**

WIFI Ant. 1	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)	
802.11b CH 01 2412MHz		4824	52.16	-21.84	74	69.85	31.1	10.07	58.86	181	62	P	H	
		4824	49.55	-4.45	54	67.24	31.1	10.07	58.86	181	62	A	H	
		18000	60.61	-13.39	74	49.96	49	18.89	57.24	100	212	P	H	
		18000	50.73	-3.27	54	40.08	49	18.89	57.24	100	212	A	H	
		4824	53.14	-20.86	74	70.83	31.1	10.07	58.86	187	280	P	V	
		4824	50.78	-3.22	54	68.47	31.1	10.07	58.86	187	280	A	V	
		17985	59.6	-14.4	74	49.26	48.73	18.88	57.27	300	241	P	V	
		17985	49.78	-4.22	54	39.44	48.73	18.88	57.27	300	241	A	V	
802.11b CH 06 2437MHz		4874	52.01	-21.99	74	69.75	31.05	10.11	58.9	177	64	P	H	
		4874	49.38	-4.62	54	67.12	31.05	10.11	58.9	177	64	A	H	
		7311	44.51	-29.49	74	54.33	36.3	12.31	58.43	100	0	P	H	
		17985	59.09	-14.91	74	48.75	48.73	18.88	57.27	100	132	P	H	
		17985	49.32	-4.68	54	38.98	48.73	18.88	57.27	100	132	A	H	
		4874	53.02	-20.98	74	70.76	31.05	10.11	58.9	213	280	P	V	
		4874	50.42	-3.58	54	68.16	31.05	10.11	58.9	213	280	A	V	
		7311	45.13	-28.87	74	54.95	36.3	12.31	58.43	100	0	P	V	
		18000	59.43	-14.57	74	48.78	49	18.89	57.24	300	213	P	V	
		18000	49.61	-4.39	54	38.96	49	18.89	57.24	300	213	A	V	



802.11b CH 11 2462MHz		4924	51.94	-22.06	74	69.65	31.1	10.14	58.95	174	66	P	H
		4924	49.22	-4.78	54	66.93	31.1	10.14	58.95	174	66	A	H
		7386	44.33	-29.67	74	53.97	36.3	12.35	58.29	100	0	P	H
		17985	58.97	-15.03	74	48.63	48.73	18.88	57.27	100	147	P	H
		17985	49.51	-4.49	54	39.17	48.73	18.88	57.27	100	147	A	H
		4924	52.81	-21.19	74	70.52	31.1	10.14	58.95	184	89	P	V
		4924	50.25	-3.75	54	67.96	31.1	10.14	58.95	184	89	A	V
		7386	44.36	-29.64	74	54	36.3	12.35	58.29	100	0	P	V
		17985	59.5	-14.5	74	49.16	48.73	18.88	57.27	300	264	P	V
		17985	49.98	-4.02	54	39.64	48.73	18.88	57.27	300	264	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 802.11g (Band Edge @ 3m)**

WIFI Ant. 1	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		2390.01	61.42	-88.58	150	48.24	27.54	16.56	30.92	100	49	P	H	
		2389.8	50.38	-3.62	54	37.2	27.54	16.56	30.92	100	49	A	H	
	*	2412	106.75	-	-	93.56	27.5	16.6	30.91	100	49	P	H	
	*	2412	99.61	-	-	86.42	27.5	16.6	30.91	100	49	A	H	
													H	
														H
			2390	65.89	-8.11	74	52.71	27.54	16.56	30.92	345	93	P	V
			2390	50.41	-3.59	54	37.23	27.54	16.56	30.92	345	93	P	V
	*		2412	107.26	-	-	94.07	27.5	16.6	30.91	345	93	P	V
	*		2412	99.56	-	-	86.37	27.5	16.6	30.91	345	93	A	V
														V
														V
802.11g CH 06 2437MHz		2390	55.26	-18.74	74	42.08	27.54	16.56	30.92	100	50	P	H	
		2389.36	45.97	-8.03	54	32.79	27.54	16.56	30.92	100	50	A	H	
	*	2437	109.63	-	-	96.39	27.5	16.64	30.9	100	50	P	H	
	*	2437	102.15	-	-	88.91	27.5	16.64	30.9	100	50	A	H	
			2485.33	55.5	-18.5	74	42.24	27.43	16.71	30.88	100	50	P	H
			2483.98	45.54	-8.46	54	32.28	27.43	16.71	30.88	100	50	A	H
			2388.56	55.89	-18.11	74	42.7	27.55	16.56	30.92	335	87	P	V
			2389.68	45.67	-8.33	54	32.49	27.54	16.56	30.92	335	87	A	V
	*		2437	109.86	-	-	96.62	27.5	16.64	30.9	335	87	P	V
	*		2437	102.01	-	-	88.77	27.5	16.64	30.9	335	87	A	V
			2483.89	55.11	-18.89	74	41.85	27.43	16.71	30.88	335	87	P	V
			2483.62	45.61	-8.39	54	32.35	27.43	16.71	30.88	335	87	A	V



802.11g CH 11 2462MHz	*	2462	107.63	-	-	94.36	27.48	16.68	30.89	100	46	P	H
	*	2462	100.28	-	-	87.01	27.48	16.68	30.89	100	46	A	H
		2483.68	62.96	-11.04	74	49.7	27.43	16.71	30.88	100	46	P	H
		2483.52	49.83	-4.17	54	36.57	27.43	16.71	30.88	100	46	A	H
													H
													H
	*	2462	108.2	-	-	94.93	27.48	16.68	30.89	327	95	P	V
	*	2462	100.99	-	-	87.72	27.48	16.68	30.89	327	95	A	V
		2483.6	65.41	-8.59	74	52.15	27.43	16.71	30.88	327	95	P	V
		2483.6	49.82	-4.18	54	36.56	27.43	16.71	30.88	327	95	A	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



**2.4GHz 2400~2483.5MHz
WIFI 802.11g (Harmonic @ 3m)**

WIFI Ant. 1	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		4824	40.4	-33.6	74	58.09	31.1	10.07	58.86	100	0	P	H	
		17955	59.13	-14.87	74	49.42	48.19	18.86	57.34	100	104	P	H	
		17955	49.64	-4.36	54	39.93	48.19	18.86	57.34	100	104	A	H	
			4824	43.24	-30.76	74	60.93	31.1	10.07	58.86	100	0	P	V
			18000	59.93	-14.07	74	49.28	49	18.89	57.24	300	241	P	V
			18000	50.41	-3.59	54	39.76	49	18.89	57.24	300	241	A	V
802.11g CH 06 2437MHz		4874	43.06	-30.94	74	60.8	31.05	10.11	58.9	100	0	P	H	
		7311	44.38	-29.62	74	54.2	36.3	12.31	58.43	100	0	P	H	
		17985	58.68	-15.32	74	48.34	48.73	18.88	57.27	100	138	P	H	
		17985	49.19	-4.81	54	38.85	48.73	18.88	57.27	100	138	A	H	
			4874	43.85	-30.15	74	61.59	31.05	10.11	58.9	100	0	P	V
			7311	44.65	-29.35	74	54.47	36.3	12.31	58.43	100	0	P	V
			18000	59.48	-14.52	74	48.83	49	18.89	57.24	300	241	P	V
			18000	50.03	-3.97	54	39.38	49	18.89	57.24	300	241	A	V
802.11g CH 11 2462MHz		4924	41.36	-32.64	74	59.07	31.1	10.14	58.95	100	0	P	H	
		7386	44.15	-29.85	74	53.79	36.3	12.35	58.29	100	0	P	H	
		18000	59.16	-14.84	74	48.51	49	18.89	57.24	100	125	P	H	
			18000	49.68	-4.32	54	39.03	49	18.89	57.24	100	125	A	H
			4924	43.2	-30.8	74	60.91	31.1	10.14	58.95	100	0	P	V
			7386	44.57	-29.43	74	54.21	36.3	12.35	58.29	100	0	P	V
			18000	58.58	-15.42	74	47.93	49	18.89	57.24	300	274	P	V
			18000	49.11	-4.89	54	38.46	49	18.89	57.24	300	274	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 802.11n HT20 (Band Edge @ 3m)**

WIFI Ant. 1	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)	
802.11n HT20 CH 01 2412MHz		2389.17	64.39	-9.61	74	51.21	27.54	16.56	30.92	100	55	P	H	
		2390	49.72	-4.28	54	36.54	27.54	16.56	30.92	100	55	A	H	
	*	2412	106.46	-	-	93.27	27.5	16.6	30.91	100	55	P	H	
	*	2412	99.12	-	-	85.93	27.5	16.6	30.91	100	55	A	H	
													H	
														H
			2390	62.24	-11.76	74	49.06	27.54	16.56	30.92	328	81	P	V
			2390	48.84	-5.16	54	35.66	27.54	16.56	30.92	328	81	A	V
		*	2412	105.83	-	-	92.64	27.5	16.6	30.91	328	81	P	V
		*	2412	98.13	-	-	84.94	27.5	16.6	30.91	328	81	A	V
802.11n HT20 CH 06 2437MHz		2333.68	55.32	-18.68	74	42.06	27.73	16.47	30.94	113	55	P	H	
		2390	45.71	-8.29	54	32.53	27.54	16.56	30.92	113	55	A	H	
		*	2437	108.67	-	-	95.43	27.5	16.64	30.9	113	55	P	H
		*	2437	100.74	-	-	87.5	27.5	16.64	30.9	113	55	A	H
			2485.42	56.28	-17.72	74	43.02	27.43	16.71	30.88	113	55	P	H
			2483.62	45.51	-8.49	54	32.25	27.43	16.71	30.88	113	55	A	H
			2389.84	54.97	-19.03	74	41.79	27.54	16.56	30.92	360	76	P	V
			2389.84	45.37	-8.63	54	32.19	27.54	16.56	30.92	360	76	A	V
		*	2437	107.53	-	-	94.29	27.5	16.64	30.9	360	76	P	V
		*	2437	99.9	-	-	86.66	27.5	16.64	30.9	360	76	A	V
		2485.06	55.14	-18.86	74	41.88	27.43	16.71	30.88	360	76	P	V	
		2484.7	45.47	-8.53	54	32.21	27.43	16.71	30.88	360	76	A	V	



802.11n HT20 CH 11 2462MHz	*	2462	108.25	-	-	94.98	27.48	16.68	30.89	100	52	P	H
	*	2462	100.76	-	-	87.49	27.48	16.68	30.89	100	52	A	H
		2484.04	66.68	-7.32	74	53.42	27.43	16.71	30.88	100	52	P	H
		2483.56	50.73	-3.27	54	37.47	27.43	16.71	30.88	100	52	A	H
													H
													H
	*	2462	107.86	-	-	94.59	27.48	16.68	30.89	352	73	P	V
	*	2462	100.04	-	-	86.77	27.48	16.68	30.89	352	73	A	V
		2483.52	64.54	-9.46	74	51.28	27.43	16.71	30.88	352	73	P	V
		2483.56	50.17	-3.83	54	36.91	27.43	16.71	30.88	352	73	A	V
												V	
												V	
Remark	<ol style="list-style-type: none"> No other spurious found. All results are PASS against Peak and Average limit line. 												



**2.4GHz 2400~2483.5MHz
WIFI 802.11n HT40 (Band Edge @ 3m)**

WIFI Ant. 1	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)
802.11n HT40 CH 03 2422MHz		2389.52	61.88	-12.12	74	48.7	27.54	16.56	30.92	100	54	P	H
		2389.52	50.03	-3.97	54	36.85	27.54	16.56	30.92	100	54	A	H
	*	2422	104.27	-	-	91.06	27.5	16.61	30.9	100	54	P	H
	*	2422	96.85	-	-	83.64	27.5	16.61	30.9	100	54	A	H
		2489.2	55.29	-18.71	74	42.02	27.42	16.72	30.87	100	54	P	H
		2487.67	46.52	-7.48	54	33.26	27.42	16.72	30.88	100	54	A	H
		2389.68	60.83	-13.17	74	47.65	27.54	16.56	30.92	326	79	P	V
		2389.52	49.03	-4.97	54	35.85	27.54	16.56	30.92	326	79	A	V
	*	2422	102.91	-	-	89.7	27.5	16.61	30.9	326	79	P	V
	*	2422	95.48	-	-	82.27	27.5	16.61	30.9	326	79	A	V
		2486.32	56.03	-17.97	74	42.77	27.43	16.71	30.88	326	79	P	V
		2484.07	46.1	-7.9	54	32.84	27.43	16.71	30.88	326	79	A	V
802.11n HT40 CH 06 2437MHz		2389.84	60.96	-13.04	74	47.78	27.54	16.56	30.92	100	58	P	H
		2389.36	50.69	-3.31	54	37.51	27.54	16.56	30.92	100	58	A	H
	*	2437	106.33	-	-	93.09	27.5	16.64	30.9	100	58	P	H
	*	2437	98.63	-	-	85.39	27.5	16.64	30.9	100	58	A	H
		2486.14	60.02	-13.98	74	46.76	27.43	16.71	30.88	100	58	P	H
		2483.53	48.61	-5.39	54	35.35	27.43	16.71	30.88	100	58	A	H
		2388.88	61.3	-12.7	74	48.12	27.54	16.56	30.92	363	84	P	V
		2390	50.05	-3.95	54	36.87	27.54	16.56	30.92	363	84	A	V
	*	2437	105.52	-	-	92.28	27.5	16.64	30.9	363	84	P	V
	*	2437	98.04	-	-	84.8	27.5	16.64	30.9	363	84	A	V
		2483.98	60.72	-13.28	74	47.46	27.43	16.71	30.88	363	84	P	V
		2484.79	48.43	-5.57	54	35.17	27.43	16.71	30.88	363	84	A	V



802.11n HT40 CH 09 2452MHz		2390	55.99	-18.01	74	42.81	27.54	16.56	30.92	100	54	P	H
		2388.56	46.3	-7.7	54	33.11	27.55	16.56	30.92	100	54	A	H
	*	2452	103.74	-	-	90.47	27.5	16.66	30.89	100	54	P	H
	*	2452	95.7	-	-	82.43	27.5	16.66	30.89	100	54	A	H
		2484.52	64.26	-9.74	74	51	27.43	16.71	30.88	100	54	P	H
		2484.34	50.27	-3.73	54	37.01	27.43	16.71	30.88	100	54	A	H
		2376.08	55.59	-18.41	74	42.37	27.6	16.54	30.92	362	78	P	V
		2388.4	46.32	-7.68	54	33.13	27.55	16.56	30.92	362	78	A	V
	*	2452	101.81	-	-	88.54	27.5	16.66	30.89	362	78	P	V
	*	2452	94.43	-	-	81.16	27.5	16.66	30.89	362	78	A	V
		2483.53	63.82	-10.18	74	50.56	27.43	16.71	30.88	362	78	P	V
		2483.62	49.39	-4.61	54	36.13	27.43	16.71	30.88	362	78	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Emission above 18GHz

2.4GHz WIFI 802.11b (SHF)

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		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
2.4GHz 802.11b SHF		22392	39.29	-34.71	74	42.61	38.95	12.27	54.54	150	0	P	H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
			21768	39.36	-34.64	74	43.77	38.35	11.94	54.7	150	0	P
													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.												



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		(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 D. Radiated Spurious Emission Plots

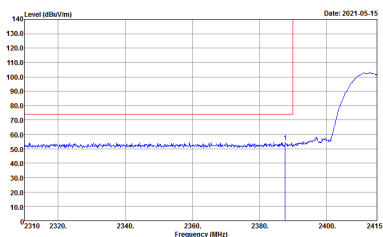
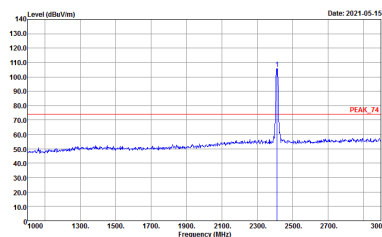
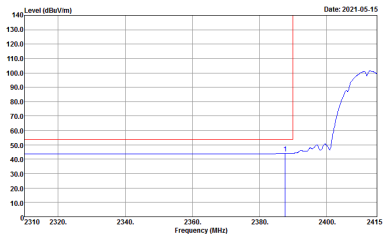
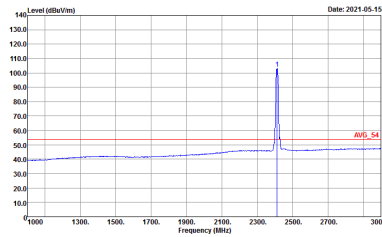
Test Engineer :	Leo Lee, Mancy Chou, and Bigshow Wang	Temperature :	22.1~23.1°C
		Relative Humidity :	55~60%

Note symbol

-L	Low channel location
-R	High channel location



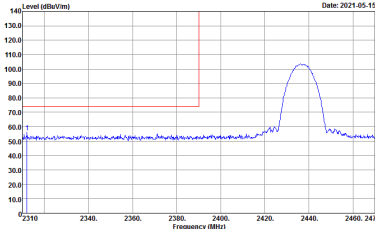
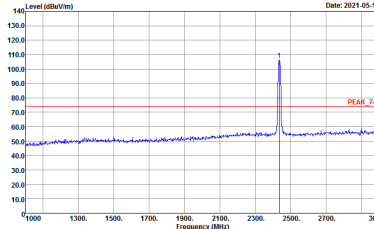
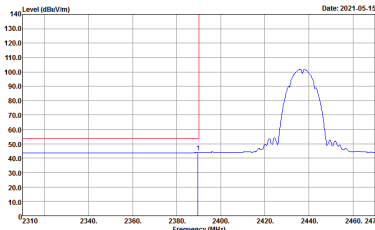
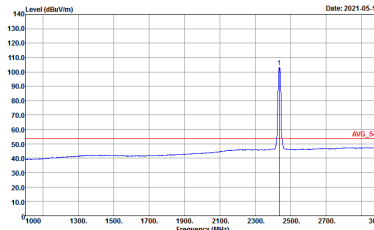
2.4GHz 2400~2483.5MHz
WIFI 802.11b (Band Edge @ 3m)

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH01 2412MHz	
1	Horizontal	Fundamental
Peak	 <p>Site : 03CH15-IHY Condition : PEAK_BE_74 3m 91200_15_1620 HORIZONTAL Detector : Peak Project : 142608</p>	 <p>Site : 03CH15-IHY Condition : PEAK_74 3m 91200_15_1620 HORIZONTAL Detector : Peak Project : 142608</p>
Avg.	 <p>Site : 03CH15-IHY Condition : AVG_BE_54 3m 91200_15_1620 HORIZONTAL Detector : Peak Project : 142608</p>	 <p>Site : 03CH15-IHY Condition : AVG_54 3m 91200_15_1620 HORIZONTAL Detector : Peak Project : 142608</p>

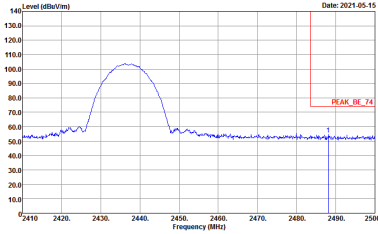
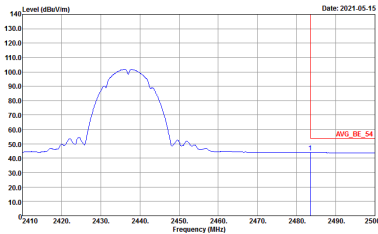


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH01 2412MHz	
1	Vertical	Fundamental
Peak	<p>Site : 03CH15-HY Condition : PEAK_8E_74 3m 91200_15_1620 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 142608</p>	<p>Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 142608</p>
Avg.	<p>Site : 03CH15-HY Condition : AVG_8E_54 3m 91200_15_1620 VERTICAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 142608</p>	<p>Site : 03CH15-HY Condition : AVG_54 3m 91200_15_1620 VERTICAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 142608</p>

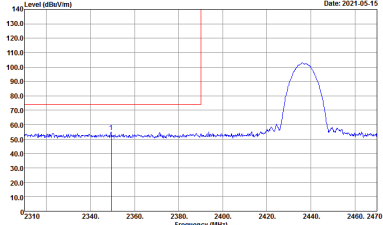
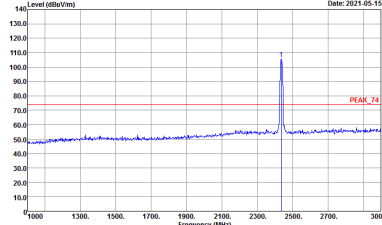
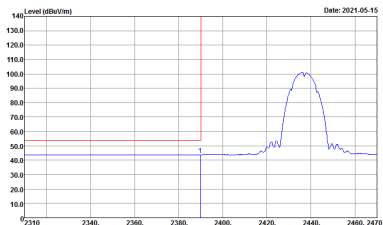
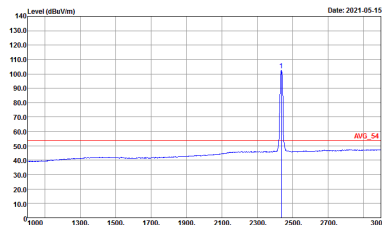


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH06 2437MHz - L	
1	Horizontal	Fundamental
Peak	 <p>Site : 03CH15-HY Condition : PEAK_8E_74 3m 91200_15_1620 HORIZONTAL RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Detector : Peak Project : 142608</p>	 <p>Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 HORIZONTAL RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Detector : Peak Project : 142608</p>
Avg.	 <p>Site : 03CH15-HY Condition : AVG_8E_54 3m 91200_15_1620 HORIZONTAL RBW:1000.000kHz VBW:0.010kHz SWT:Auto Detector : Peak Project : 142608</p>	 <p>Site : 03CH15-HY Condition : AVG_54 3m 91200_15_1620 HORIZONTAL RBW:1000.000kHz VBW:0.010kHz SWT:Auto Detector : Peak Project : 142608</p>

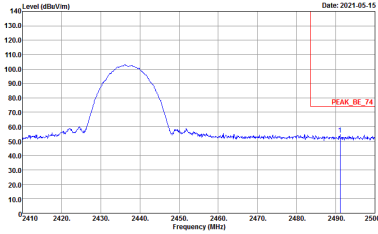
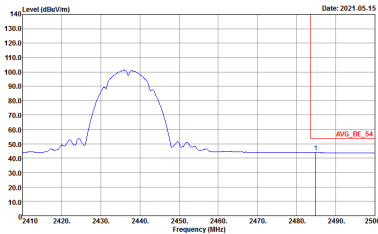


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH06 2437MHz - R	
1	Horizontal	Fundamental
<p>Peak</p>	 <p>Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_15_1620 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWF:Auto Detector : Peak Project : 142608</p>	<p>Left blank</p>
<p>Avg.</p>	 <p>Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_15_1620 HORIZONTAL RBW:1000.000KHz VBW:0.010KHz SWF:Auto Detector : Peak Project : 142608</p>	<p>Left blank</p>

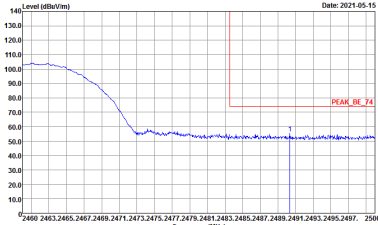
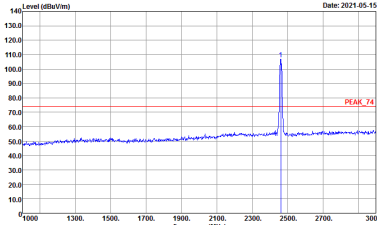
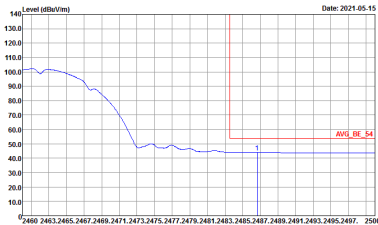
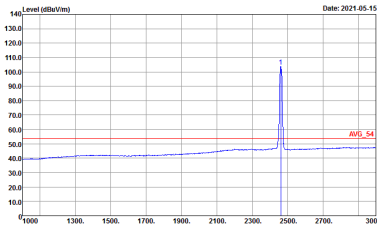


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH06 2437MHz - L	
1	Vertical	Fundamental
Peak	 <p>Site : 03CH15-HY Condition : PEAK_8E_74 3m 91200_15_1620 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 142608</p>	 <p>Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 142608</p>
Avg.	 <p>Site : 03CH15-HY Condition : AVG_8E_54 3m 91200_15_1620 VERTICAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 142608</p>	 <p>Site : 03CH15-HY Condition : AVG_54 3m 91200_15_1620 VERTICAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 142608</p>

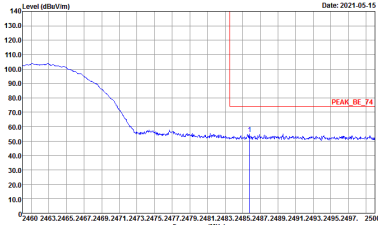
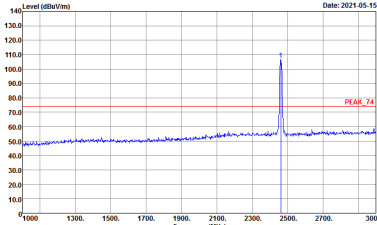
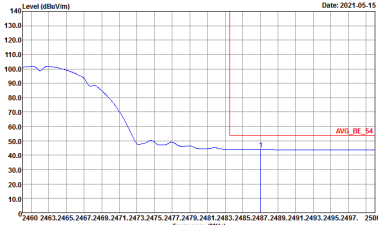
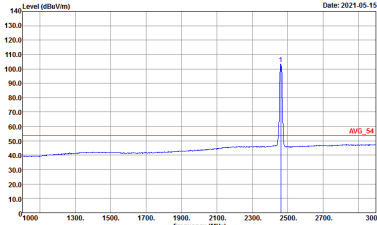


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH06 2437MHz - R	
1	Vertical	Fundamental
<p>Peak</p>	 <p>Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_15_1620 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWF:Auto Detector : Peak Project : 142608</p>	<p>Left blank</p>
<p>Avg.</p>	 <p>Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_15_1620 VERTICAL RBW:1000.000KHz VBW:0.010KHz SWF:Auto Detector : Peak Project : 142608</p>	<p>Left blank</p>



WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH11 2462MHz	
1	Horizontal	Fundamental
Peak	 <p>Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_15_1620 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 142608</p>	 <p>Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 142608</p>
Avg.	 <p>Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_15_1620 HORIZONTAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 142608</p>	 <p>Site : 03CH15-HY Condition : AVG_54 3m 91200_15_1620 HORIZONTAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 142608</p>



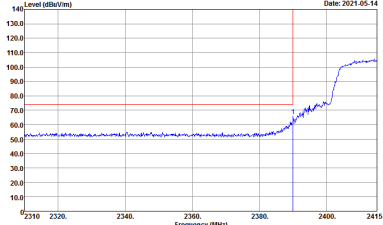
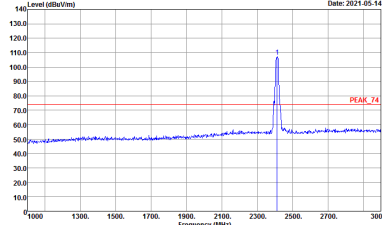
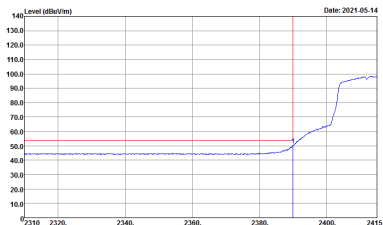
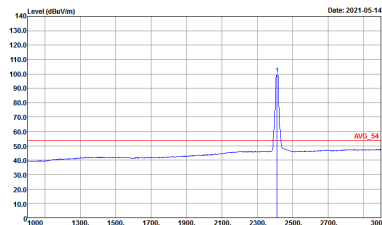
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH11 2462MHz	
1	Vertical	Fundamental
<p>Peak</p>	 <p>Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_15_1620 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 142608</p>	 <p>Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 142608</p>
<p>Avg.</p>	 <p>Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_15_1620 VERTICAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 142608</p>	 <p>Site : 03CH15-HY Condition : AVG_54 3m 91200_15_1620 VERTICAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 142608</p>



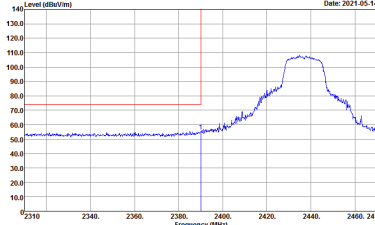
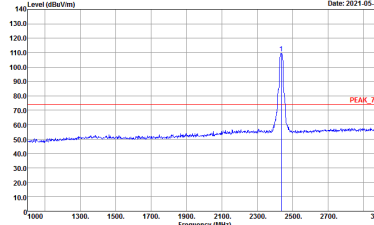
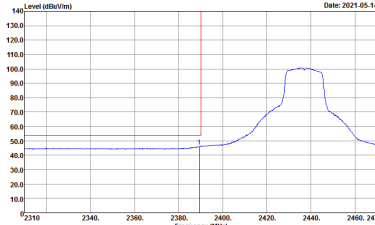
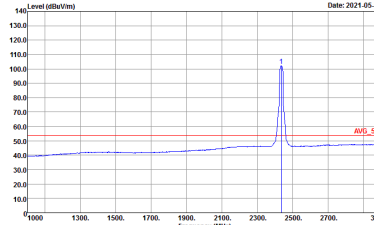
2.4GHz 2400~2483.5MHz
WIFI 802.11g (Band Edge @ 3m)

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH01 2412MHz	
1	Horizontal	Fundamental
Peak	<p>Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_15_1620 HORIZONTAL Detector : Peak Project : 142608 Setting : 14.5</p>	<p>Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 HORIZONTAL Detector : Peak Project : 142608 Setting : 14.5</p>
Avg.	<p>Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_15_1620 HORIZONTAL Detector : Peak Project : 142608 Setting : 14.5</p>	<p>Site : 03CH15-HY Condition : AVG_54 3m 91200_15_1620 HORIZONTAL Detector : Peak Project : 142608 Setting : 14.5</p>



WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH01 2412MHz	
1	Vertical	Fundamental
Peak	 <p>Site : 03CH15-HY Condition : PEAK_8E_74 3m 91200_15_1620 VERTICAL Detector : Peak Project : 142608 Setting : 14.5</p>	 <p>Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 VERTICAL Detector : Peak Project : 142608 Setting : 14.5</p>
Avg.	 <p>Site : 03CH15-HY Condition : AVG_8E_54 3m 91200_15_1620 VERTICAL Detector : Peak Project : 142608 Setting : 14.5</p>	 <p>Site : 03CH15-HY Condition : AVG_54 3m 91200_15_1620 VERTICAL Detector : Peak Project : 142608 Setting : 14.5</p>

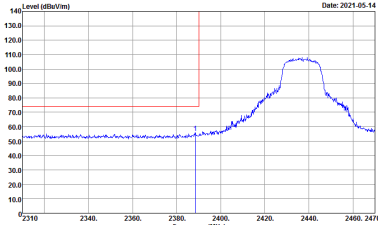
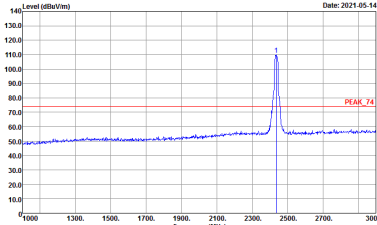
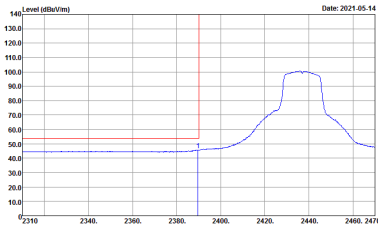
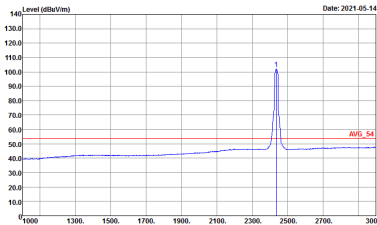


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH06 2437MHz - L	
1	Horizontal	Fundamental
Peak	 <p>Site : 03CH15-HY Condition : PEAK_8E_74 3m 91200_15_1620 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 142608</p>	 <p>Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 142608</p>
Avg.	 <p>Site : 03CH15-HY Condition : AVG_8E_54 3m 91200_15_1620 HORIZONTAL RBW:1000.000KHz VBW:1000KHz SWT:Auto Detector : Peak Project : 142608</p>	 <p>Site : 03CH15-HY Condition : AVG_54 3m 91200_15_1620 HORIZONTAL RBW:1000.000KHz VBW:1000KHz SWT:Auto Detector : Peak Project : 142608</p>

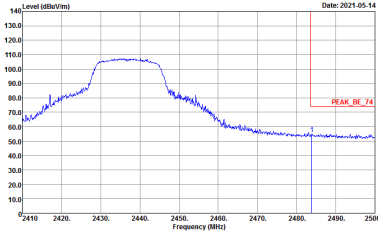
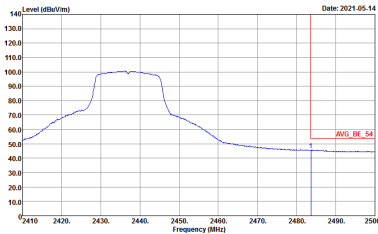


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH06 2437MHz - R	
1	Horizontal	Fundamental
Peak	<p>Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_15_1620 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWF:Auto Detector : Peak Project : 142608</p>	Left blank
Avg.	<p>Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_15_1620 HORIZONTAL RBW:1000.000KHz VBW:1.000KHz SWF:Auto Detector : Peak Project : 142608</p>	Left blank

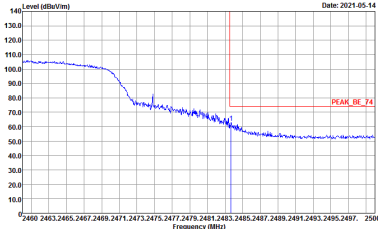
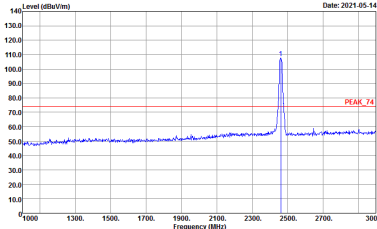
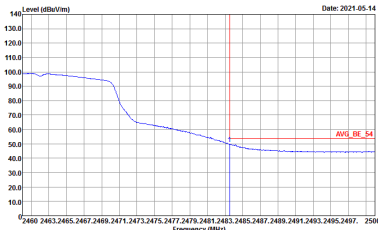
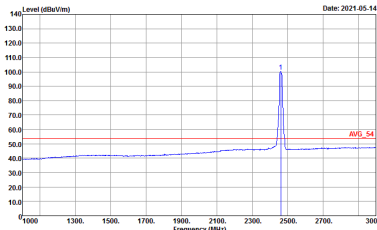


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH06 2437MHz - L	
1	Vertical	Fundamental
Peak	 <p>Site : 03CH15-HY Condition : PEAK_8E_74 3m 91200_15_1620 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 142608</p>	 <p>Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 142608</p>
Avg.	 <p>Site : 03CH15-HY Condition : AVG_8E_54 3m 91200_15_1620 VERTICAL RBW:1000.000KHz VBW:1000KHz SWT:Auto Detector : Peak Project : 142608</p>	 <p>Site : 03CH15-HY Condition : AVG_54 3m 91200_15_1620 VERTICAL RBW:1000.000KHz VBW:1000KHz SWT:Auto Detector : Peak Project : 142608</p>

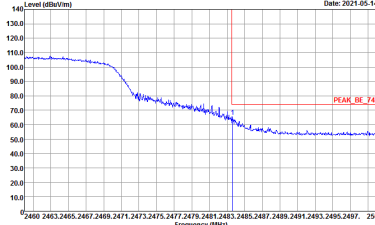
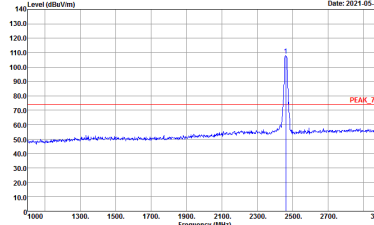
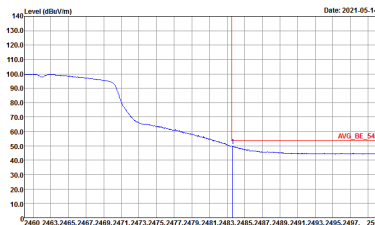
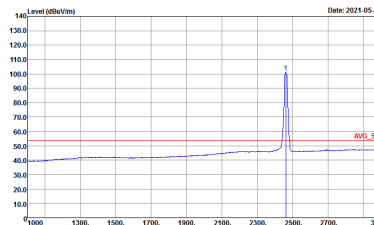


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH06 2437MHz - R	
1	Vertical	Fundamental
Peak	 <p>Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_15_1620 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWF:Auto Detector : Peak Project : 142608</p>	Left Blank
Avg.	 <p>Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_15_1620 VERTICAL RBW:1000.000KHz VBW:1.000KHz SWF:Auto Detector : Peak Project : 142608</p>	Left Blank



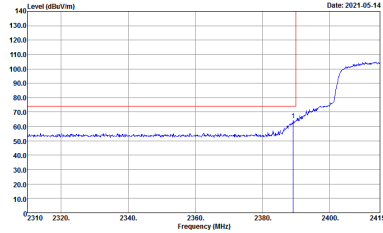
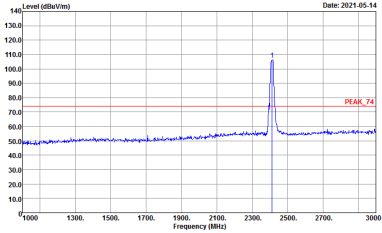
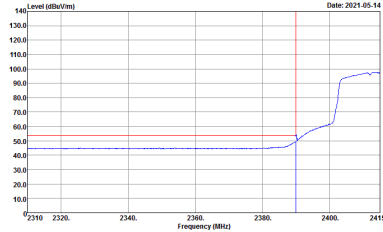
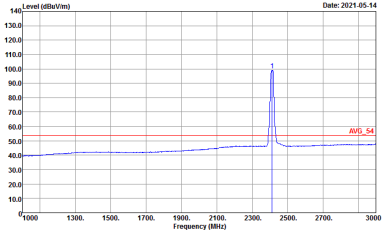
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH11 2462MHz	
1	Horizontal	Fundamental
Peak	 <p>Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_15_1620 HORIZONTAL Detector : Peak Project : 142608 Setting : 15</p>	 <p>Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 HORIZONTAL Detector : Peak Project : 142608 Setting : 15</p>
Avg.	 <p>Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_15_1620 HORIZONTAL Detector : Peak Project : 142608 Setting : 15</p>	 <p>Site : 03CH15-HY Condition : AVG_54 3m 91200_15_1620 HORIZONTAL Detector : Peak Project : 142608 Setting : 15</p>



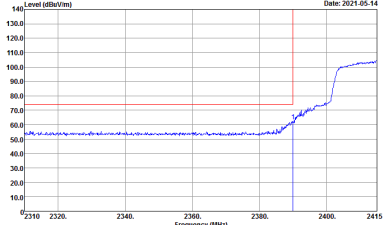
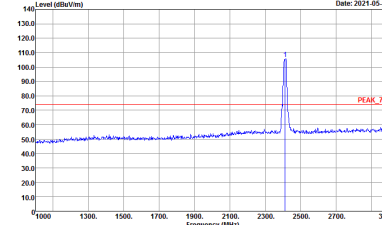
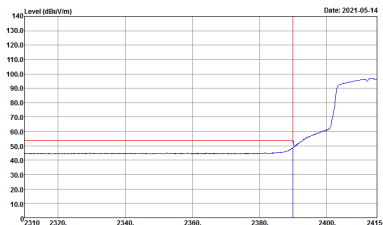
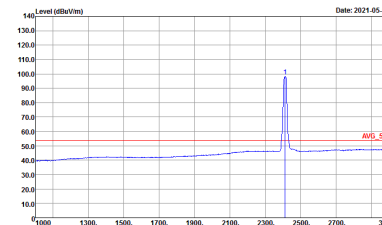
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH11 2462MHz	
1	Vertical	Fundamental
Peak	 <p>Date: 2021-05-14</p> <p>Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_15_1620 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 142608 Setting : 15</p>	 <p>Date: 2021-05-14</p> <p>Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 142608 Setting : 15</p>
Avg.	 <p>Date: 2021-05-14</p> <p>Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_15_1620 VERTICAL RBW:1000.000KHz VBW:1000KHz SWT:Auto Detector : Peak Project : 142608 Setting : 15</p>	 <p>Date: 2021-05-14</p> <p>Site : 03CH15-HY Condition : AVG_54 3m 91200_15_1620 VERTICAL RBW:1000.000KHz VBW:1000KHz SWT:Auto Detector : Peak Project : 142608 Setting : 15</p>



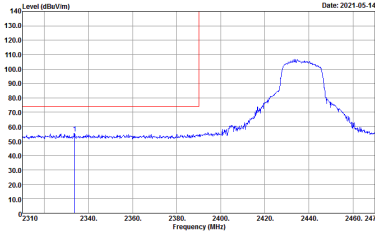
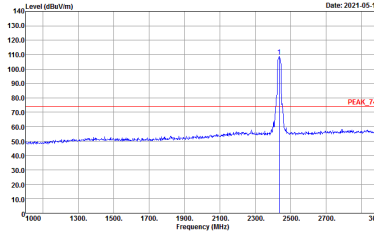
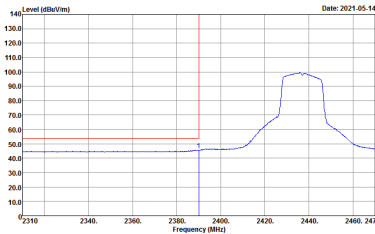
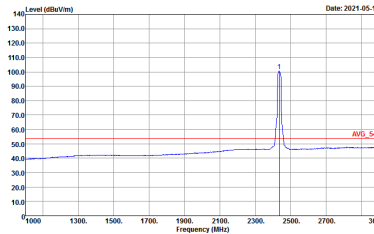
2.4GHz 2400~2483.5MHz
 WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH01 2412MHz	
1	Horizontal	Fundamental
Peak	 <p>Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_15_1620 HORIZONTAL Detector : Peak Project : 142608 Setting : 13</p>	 <p>Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 HORIZONTAL Detector : Peak Project : 142608 Setting : 13</p>
Avg.	 <p>Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_15_1620 HORIZONTAL Detector : Peak Project : 142608 Setting : 13</p>	 <p>Site : 03CH15-HY Condition : AVG_54 3m 91200_15_1620 HORIZONTAL Detector : Peak Project : 142608 Setting : 13</p>

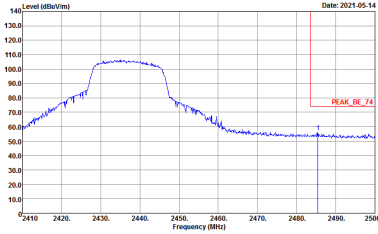
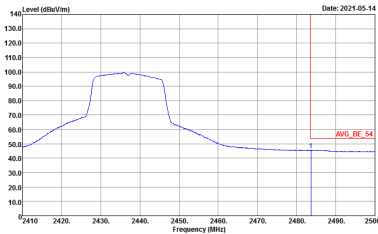


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH01 2412MHz	
1	Vertical	Fundamental
Peak	 <p>Site : 03CH15-HY Condition : PEAK_8E_74 3m 91200_15_1620 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 142608 Setting : 13</p>	 <p>Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 142608 Setting : 13</p>
Avg.	 <p>Site : 03CH15-HY Condition : AVG_8E_54 3m 91200_15_1620 VERTICAL RBW:1000.000KHz VBW:1000KHz SWT:Auto Detector : Peak Project : 142608 Setting : 13</p>	 <p>Site : 03CH15-HY Condition : AVG_54 3m 91200_15_1620 VERTICAL RBW:1000.000KHz VBW:1000KHz SWT:Auto Detector : Peak Project : 142608 Setting : 13</p>

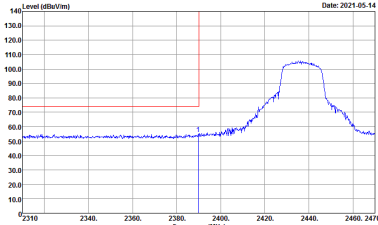
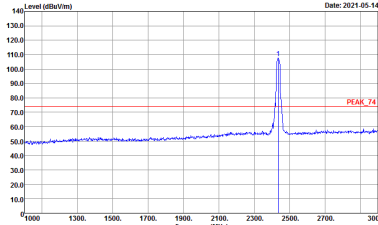
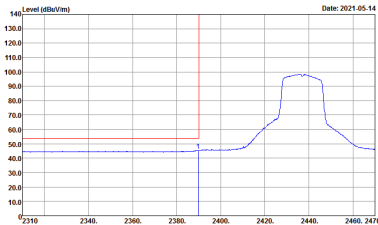
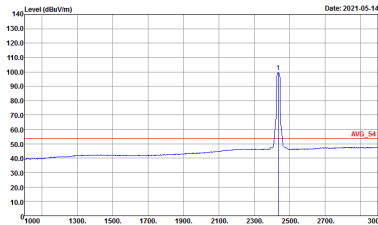


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH06 2437MHz - L	
1	Horizontal	Fundamental
Peak	 <p>Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_15_1620 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 142608</p>	 <p>Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 142608</p>
Avg.	 <p>Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_15_1620 HORIZONTAL RBW:1000.000KHz VBW:1000KHz SWT:Auto Detector : Peak Project : 142608</p>	 <p>Site : 03CH15-HY Condition : AVG_54 3m 91200_15_1620 HORIZONTAL RBW:1000.000KHz VBW:1000KHz SWT:Auto Detector : Peak Project : 142608</p>

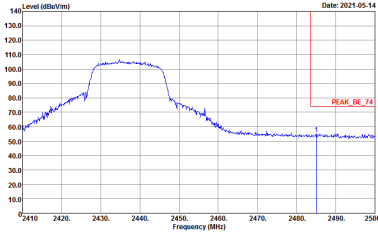
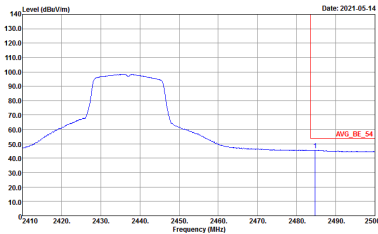


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH06 2437MHz - R	
1	Horizontal	Fundamental
<p>Peak</p>	 <p>Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_15_1620 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWF:Auto Detector : Peak Project : 142608</p>	<p>Left blank</p>
<p>Avg.</p>	 <p>Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_15_1620 HORIZONTAL RBW:1000.000KHz VBW:1.000KHz SWF:Auto Detector : Peak Project : 142608</p>	<p>Left blank</p>

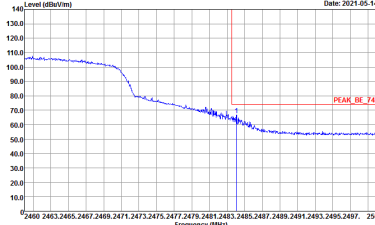
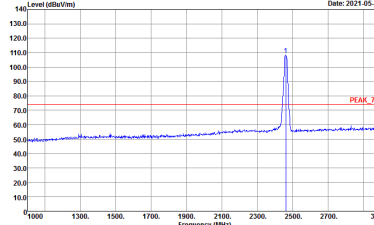
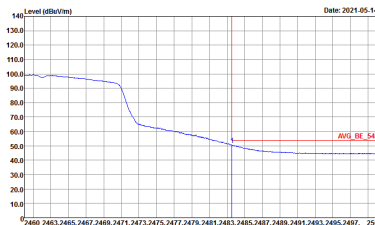
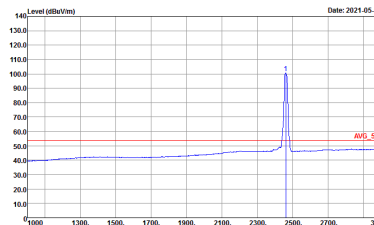


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH06 2437MHz - L	
1	Vertical	Fundamental
Peak	 <p>Site : 03CH15-HY Condition : PEAK_8E_74 3m 91200_15_1620 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 142608</p>	 <p>Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 142608</p>
Avg.	 <p>Site : 03CH15-HY Condition : AVG_8E_54 3m 91200_15_1620 VERTICAL RBW:1000.000KHz VBW:1000KHz SWT:Auto Detector : Peak Project : 142608</p>	 <p>Site : 03CH15-HY Condition : AVG_54 3m 91200_15_1620 VERTICAL RBW:1000.000KHz VBW:1000KHz SWT:Auto Detector : Peak Project : 142608</p>



WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH06 2437MHz - R	
1	Vertical	Fundamental
<p>Peak</p>	 <p>Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_15_1620 VERTICAL RBW:1000.000kHz VBW:3000.000kHz SWF:Auto Detector : Peak Project : 142608</p>	<p>Left Blank</p>
<p>Avg.</p>	 <p>Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_15_1620 VERTICAL RBW:1000.000kHz VBW:1.000kHz SWF:Auto Detector : Peak Project : 142608</p>	<p>Left Blank</p>



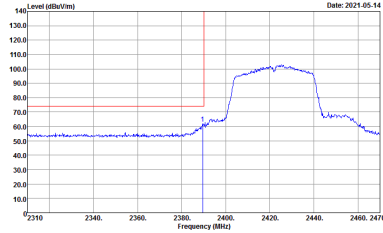
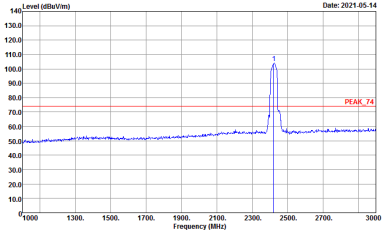
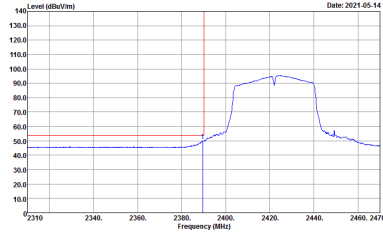
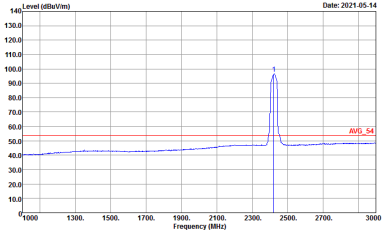
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH11 2462MHz	
1	Horizontal	Fundamental
Peak	 <p>Date: 2021-05-14</p> <p>Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_15_1620 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 142608</p>	 <p>Date: 2021-05-14</p> <p>Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 142608</p>
Avg.	 <p>Date: 2021-05-14</p> <p>Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_15_1620 HORIZONTAL RBW:1000.000KHz VBW:1000KHz SWT:Auto Detector : Peak Project : 142608</p>	 <p>Date: 2021-05-14</p> <p>Site : 03CH15-HY Condition : AVG_54 3m 91200_15_1620 HORIZONTAL RBW:1000.000KHz VBW:1000KHz SWT:Auto Detector : Peak Project : 142608</p>



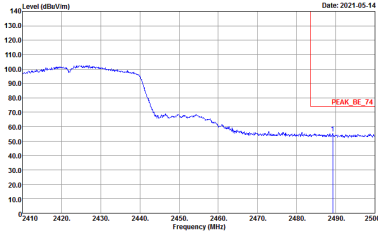
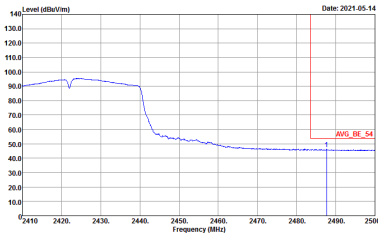
WIFI	2.4GHz 2400~2483.5MHz Fundamental @ 3m	
ANT	802.11n HT20 CH11 2462MHz	
1	Vertical	Fundamental
Peak	<p>Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_15_1620 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 142608</p>	<p>Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 142608</p>
Avg.	<p>Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_15_1620 VERTICAL RBW:1000.000KHz VBW:1000KHz SWT:Auto Detector : Peak Project : 142608</p>	<p>Site : 03CH15-HY Condition : AVG_54 3m 91200_15_1620 VERTICAL RBW:1000.000KHz VBW:1000KHz SWT:Auto Detector : Peak Project : 142608</p>



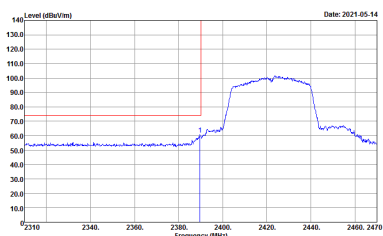
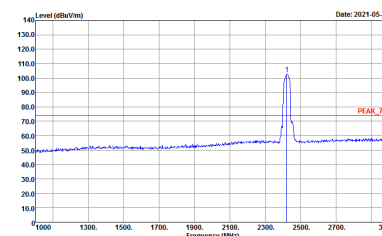
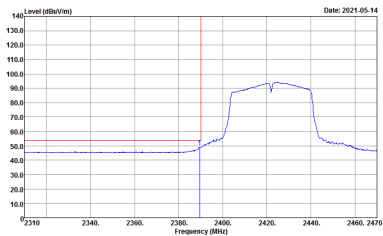
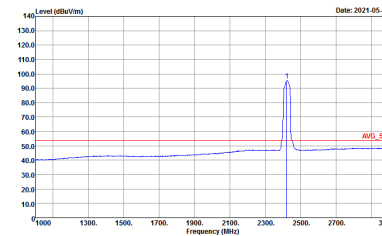
2.4GHz 2400~2483.5MHz
WIFI 802.11n HT40 (Band Edge @ 3m)

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH03 2422MHz - L	
1	Horizontal	Fundamental
Peak	 <p>Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_15_1620 HORIZONTAL Detector : Peak Project : 142608 Setting : 11.5</p>	 <p>Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 HORIZONTAL Detector : Peak Project : 142608 Setting : 11.5</p>
Avg.	 <p>Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_15_1620 HORIZONTAL Detector : Peak Project : 142608 Setting : 11.5</p>	 <p>Site : 03CH15-HY Condition : AVG_54 3m 91200_15_1620 HORIZONTAL Detector : Peak Project : 142608 Setting : 11.5</p>

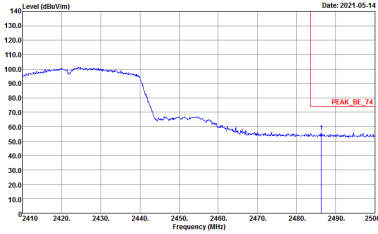
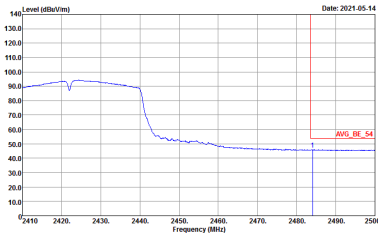


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH03 2422MHz - R	
1	Horizontal	Fundamental
<p>Peak</p>	 <p>Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_15_1620 HORIZONTAL Detector : Peak Project : 142608 Setting : 11.5</p>	<p>Left Blank</p>
<p>Avg.</p>	 <p>Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_15_1620 HORIZONTAL Detector : Peak Project : 142608 Setting : 11.5</p>	<p>Left Blank</p>

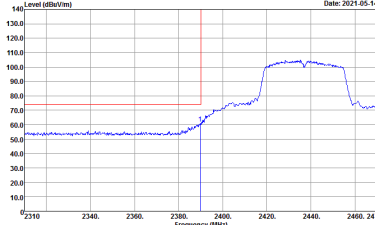
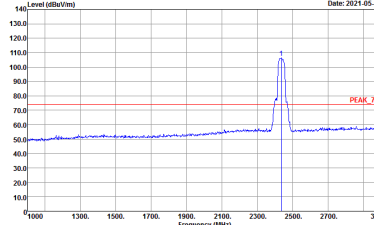
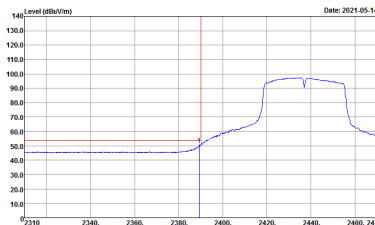
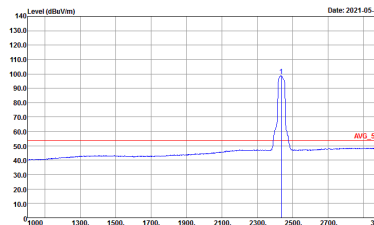


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH03 2422MHz - L	
1	Vertical	Fundamental
Peak	 <p>Site : 03CH15-HY Condition : PEAK_8E_74 3m 91200_15_1620 VERTICAL RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Detector : Peak Project : 142608 Setting : 11.5</p>	 <p>Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 VERTICAL RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Detector : Peak Project : 142608 Setting : 11.5</p>
Avg.	 <p>Site : 03CH15-HY Condition : AVG_8E_54 3m 91200_15_1620 VERTICAL RBW:1000.000kHz VBW:3.000kHz SWT:Auto Detector : Peak Project : 142608 Setting : 11.5</p>	 <p>Site : 03CH15-HY Condition : AVG_54 3m 91200_15_1620 VERTICAL RBW:1000.000kHz VBW:3.000kHz SWT:Auto Detector : Peak Project : 142608 Setting : 11.5</p>

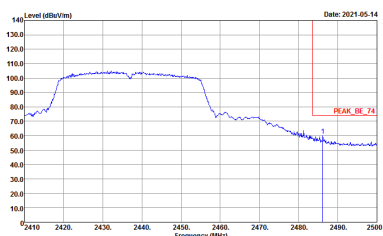
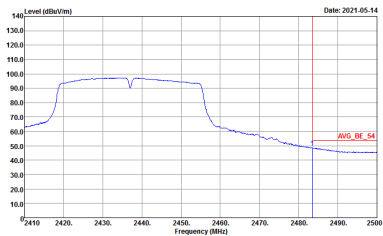


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH03 2422MHz - R	
1	Vertical	Fundamental
<p>Peak</p>	 <p>Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_15_1620 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWF:Auto Detector : Peak Project : 142608 Setting : 11.5</p>	<p>Left blank</p>
<p>Avg.</p>	 <p>Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_15_1620 VERTICAL RBW:1000.000KHz VBW:3.000KHz SWF:Auto Detector : Peak Project : 142608 Setting : 11.5</p>	<p>Left blank</p>

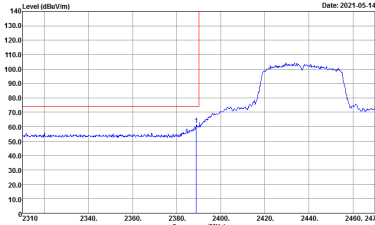
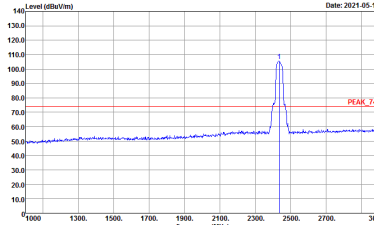
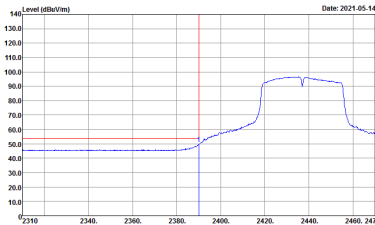
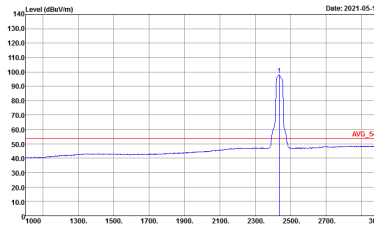


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH06 2437MHz - L	
1	Horizontal	Fundamental
Peak	 <p>Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_15_1620 HORIZONTAL RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Detector : Peak Project : 142608</p>	 <p>Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 HORIZONTAL RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Detector : Peak Project : 142608</p>
Avg.	 <p>Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_15_1620 HORIZONTAL RBW:1000.000kHz VBW:3.000kHz SWT:Auto Detector : Peak Project : 142608</p>	 <p>Site : 03CH15-HY Condition : AVG_54 3m 91200_15_1620 HORIZONTAL RBW:1000.000kHz VBW:3.000kHz SWT:Auto Detector : Peak Project : 142608</p>

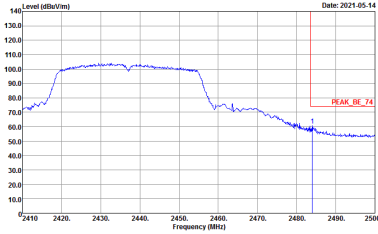
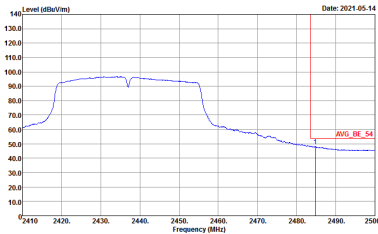


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH06 2437MHz - R	
1	Horizontal	Fundamental
<p>Peak</p>	 <p>Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_15_1620 HORIZONTAL RBW:1000.000kHz VBW:3000.000kHz SWF:Auto Detector : Peak Project : 142608</p>	<p>Left blank</p>
<p>Avg.</p>	 <p>Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_15_1620 HORIZONTAL RBW:1000.000kHz VBW:3.000kHz SWF:Auto Detector : Peak Project : 142608</p>	<p>Left blank</p>

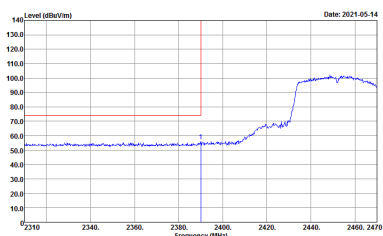
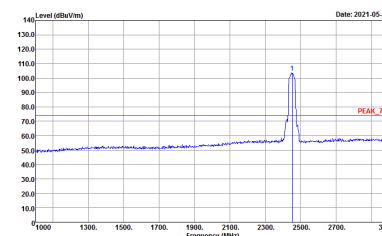
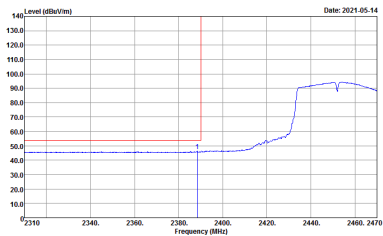
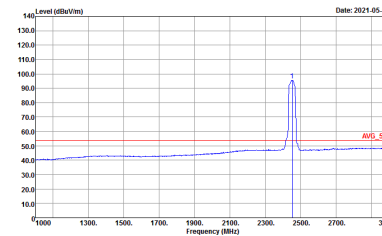


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH06 2437MHz - L	
1	Vertical	Fundamental
Peak	 <p>Site : 03CH15-HY Condition : PEAK_8E_74 3m 91200_15_1620 VERTICAL RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Detector : Peak Project : 142608</p>	 <p>Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 VERTICAL RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Detector : Peak Project : 142608</p>
Avg.	 <p>Site : 03CH15-HY Condition : AVG_8E_54 3m 91200_15_1620 VERTICAL RBW:1000.000kHz VBW:3.000kHz SWT:Auto Detector : Peak Project : 142608</p>	 <p>Site : 03CH15-HY Condition : AVG_54 3m 91200_15_1620 VERTICAL RBW:1000.000kHz VBW:3.000kHz SWT:Auto Detector : Peak Project : 142608</p>

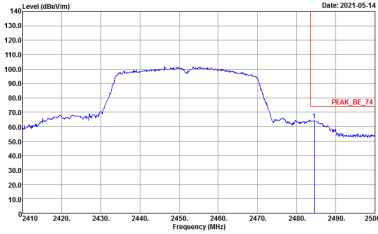
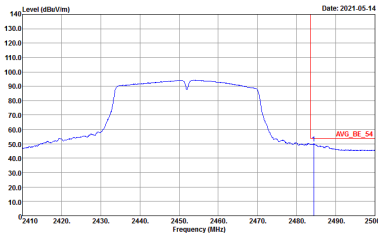


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH06 2437MHz - R	
1	Horizontal	Fundamental
<p>Peak</p>	 <p>Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_15_1620 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWF:Auto Detector : Peak Project : 142608</p>	<p>Left blank</p>
<p>Avg.</p>	 <p>Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_15_1620 VERTICAL RBW:1000.000KHz VBW:3.000KHz SWF:Auto Detector : Peak Project : 142608</p>	<p>Left blank</p>

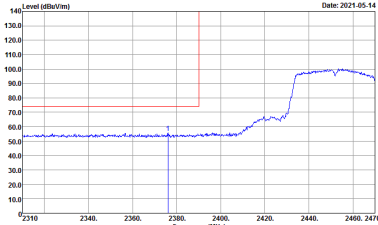
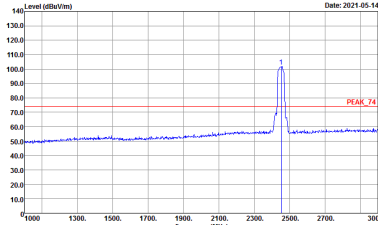
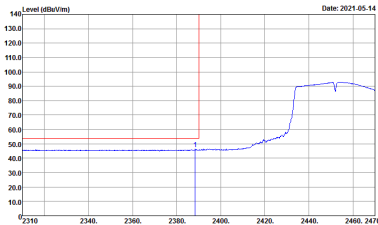
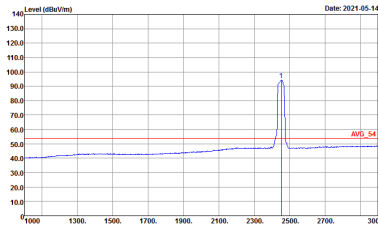


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH09 2452MHz - L	
1	Horizontal	Fundamental
Peak	 <p>Site : 03CH15-HY Condition : PEAK_8E_74 3m 91200_15_1620 HORIZONTAL RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Detector : Peak Project : 142608 Setting : 10.5</p>	 <p>Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 HORIZONTAL RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Detector : Peak Project : 142608 Setting : 10.5</p>
Avg.	 <p>Site : 03CH15-HY Condition : AVG_8E_54 3m 91200_15_1620 HORIZONTAL RBW:1000.000kHz VBW:3.000kHz SWT:Auto Detector : Peak Project : 142608 Setting : 10.5</p>	 <p>Site : 03CH15-HY Condition : AVG_54 3m 91200_15_1620 HORIZONTAL RBW:1000.000kHz VBW:3.000kHz SWT:Auto Detector : Peak Project : 142608 Setting : 10.5</p>

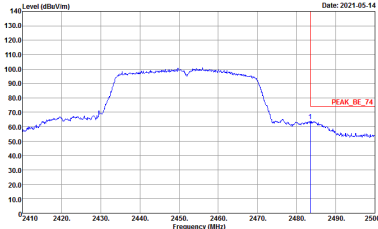
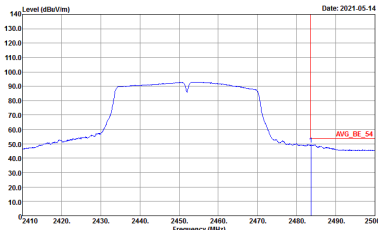


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH09 2452MHz - R	
1	Horizontal	Fundamental
<p>Peak</p>	 <p>Date: 2021-05-14</p> <p>Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_15_1620 HORIZONTAL RBW:1000.000kHz VBW:3000.000kHz SWF:Auto Detector : Peak Project : 142608 Setting : 10.5</p>	<p>Left blank</p>
<p>Avg.</p>	 <p>Date: 2021-05-14</p> <p>Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_15_1620 HORIZONTAL RBW:1000.000kHz VBW:3.000kHz SWF:Auto Detector : Peak Project : 142608 Setting : 10.5</p>	<p>Left blank</p>



WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH09 2452MHz - L	
1	Vertical	Fundamental
Peak	 <p>Site : 03CH15-HY Condition : PEAK_8E_74 3m 91200_15_1620 VERTICAL Detector : Peak Project : 142608 Setting : 10.5</p>	 <p>Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 VERTICAL Detector : Peak Project : 142608 Setting : 10.5</p>
Avg.	 <p>Site : 03CH15-HY Condition : AVG_8E_54 3m 91200_15_1620 VERTICAL Detector : Peak Project : 142608 Setting : 10.5</p>	 <p>Site : 03CH15-HY Condition : AVG_54 3m 91200_15_1620 VERTICAL Detector : Peak Project : 142608 Setting : 10.5</p>



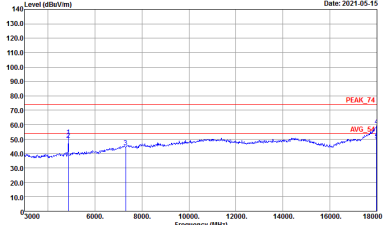
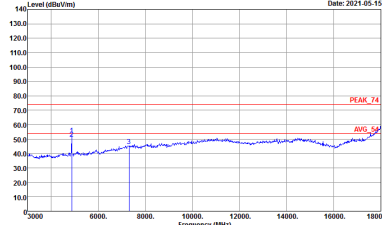
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH09 2452MHz - R	
1	Vertical	Fundamental
<p>Peak</p>	 <p>Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_15_1620 VERTICAL Detector : Peak Project : 142608 Setting : 10.5</p>	<p>Left blank</p>
<p>Avg.</p>	 <p>Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_15_1620 VERTICAL Detector : Peak Project : 142608 Setting : 10.5</p>	<p>Left blank</p>



2.4GHz 2400~2483.5MHz
WIFI 802.11b (Harmonic @ 3m)

WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11b CH01 2412MHz	
1	Horizontal	Vertical
<p>Peak</p> <p>Avg.</p>	<p>Site : 03CH15-1FY Condition : PEAK_74 3m 91200_15_1620 HORIZONTAL Detector : Peak Project : 142608 Setting : 14.5</p>	<p>Site : 03CH15-1FY Condition : PEAK_74 3m 91200_15_1620 VERTICAL Detector : Peak Project : 142608 Setting : 14.5</p>



WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11b CH06 2437MHz	
1	Horizontal	Vertical
<p>Peak Avg.</p>	 <p>Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 HORIZONTAL Detector : Peak Project : 142608 Setting : 15</p>	 <p>Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 VERTICAL Detector : Peak Project : 142608 Setting : 15</p>



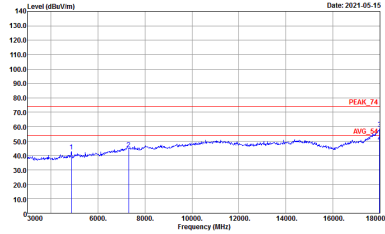
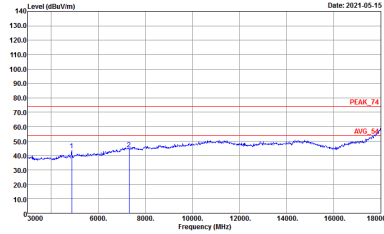
WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11b CH11 2462MHz	
1	Horizontal	Vertical
Peak Avg.	<p>Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 HORIZONTAL Detector : Peak Project : 142608 Setting : 15</p>	<p>Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 VERTICAL Detector : Peak Project : 142608 Setting : 15</p>



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

WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11g CH01 2412MHz	
1	Horizontal	Vertical
Peak Avg.	<p>Site : 03CH15-1FY Condition : PEAK_74 3m 91200_15_1620 HORIZONTAL Detector : Peak Project : 142608</p>	<p>Site : 03CH15-1FY Condition : PEAK_74 3m 91200_15_1620 VERTICAL Detector : Peak Project : 142608</p>



WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11g CH06 2437MHz	
1	Horizontal	Vertical
<p>Peak Avg.</p>	 <p>Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 HORIZONTAL Detector : Peak Project : 142608</p>	 <p>Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 VERTICAL Detector : Peak Project : 142608</p>



WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11g CH11 2462MHz	
1	Horizontal	Vertical
Peak Avg.	<p>Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 HORIZONTAL Detector : Peak Project : 142608</p>	<p>Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 VERTICAL Detector : Peak Project : 142608</p>



Emission above 18GHz
2.4GHz WIFI 802.11b (SHF)

Table with 2 columns: Horizontal and Vertical. Each column contains a graph of Level (dBuV/m) vs Frequency (MHz) and associated test parameters like Site, Condition, Detector, and Project.



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

Table with 3 columns: WIFI (2.4GHz 2400~2483.5MHz), ANT (802.11b LF), and 1 (Horizontal/Vertical). It contains two spectral plots showing Level (dBuV/m) vs Frequency (MHz) for horizontal and vertical orientations. Includes metadata like Site, Condition, Detector, and Project.



Appendix E. Duty Cycle Plots

Band	Duty Cycle(%)	T(us)	1/T(kHz)	VBW Setting	Duty Factor(dB)
802.11b	98.57	-	-	10Hz	0.06
802.11g	96.53	1390	0.72	1kHz	0.15
2.4GHz 802.11n HT20	97.01	1300	0.77	1kHz	0.13
2.4GHz 802.11n HT40	92.75	640	1.56	3kHz	0.33

