

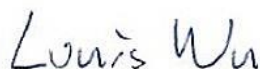
FCC RADIO TEST REPORT

FCC ID : 2AWL7-AC01WF
Equipment : Motion sensor
Brand Name : Abilliant Care; BestShape Care
Model Name : AC01WF
Applicant : WISTRON MEDICAL TECHNOLOGY CORPORATION
5F., NO.5, XIN-AN RD., SCIENCE-BASED INDUSTRIAL
PARK, HSINCHU CITY 30076, TAIWAN, R.O.C.
Manufacturer : WISTRON MEDICAL TECHNOLOGY CORPORATION
5F., NO.5, XIN-AN RD., SCIENCE-BASED INDUSTRIAL
PARK, HSINCHU CITY 30076, TAIWAN, R.O.C.
Standard : FCC Part 15 Subpart C §15.247

The product was received on Feb. 27, 2020 and testing was started from Mar. 19, 2020 and completed on Jun. 02, 2020. We, SPORTON INTERNATIONAL INC., EMC & Wireless Communications 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 report must not be used by the client to claim product certification, approval, or endorsement by TAF or any agency of government.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory, the test report shall not be reproduced except in full.



Approved by: Louis Wu

SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory
No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.)



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History of this test report

Report No.	Version	Description	Issued Date
FR022715	01	Initial issue of report	Dec. 15, 2020

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 0.50 dB at 4824.000 MHz
3.6	15.207	AC Conducted Emission	Pass	Under limit 7.97 dB at 0.356 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: Wii Chang

Report Producer: Dara Chiu



1 General Description

1.1 Product Feature of Equipment Under Test

Wi-Fi 2.4GHz 802.11b/g/n and 24GHz Radar

Product Specification subjective to this standard	
Antenna Type	WLAN: PIFA Antenna 24GHz Radar: Array Antenna

1.2 Modification of EUT

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

1.3 Testing Location

Test Site	SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory	
Test Site Location	No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.) TEL: +886-3-327-3456 FAX: +886-3-328-4978	
Test Site No.	Sporton Site No.	
	TH05-HY	CO05-HY

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

Test Site	SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory	
Test Site Location	No.58 , Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.) TEL: +886-3-327-0868 FAX: +886-3-327-0855	
Test Site No.	Sporton Site No.	
	03CH15-HY	

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

FCC designation No.: TW1190 and TW0007



1.4 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 (Z 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.

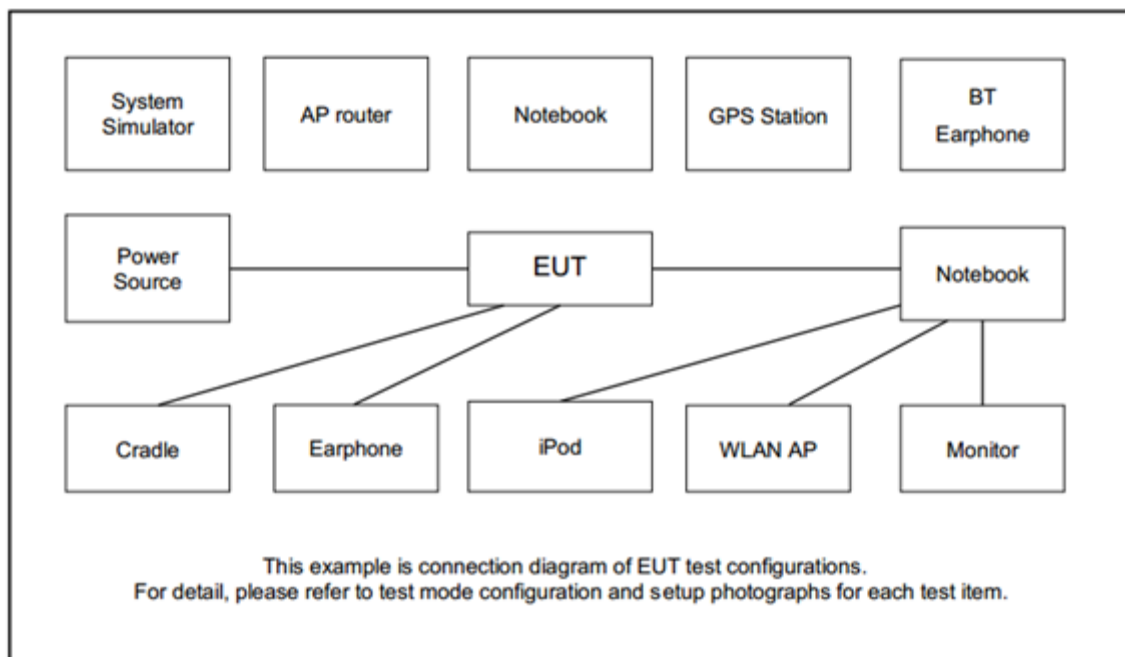
Modulation	Data Rate
802.11b	1 Mbps
802.11g	6 Mbps
802.11n HT20	MCS0
802.11n HT40	MCS0

Test Cases	
AC Conducted Emission	Mode 1: WLAN Tx (802.11b CH. 01) + USB Cable 1 (Charging from Adapter) Mode 2: WLAN Tx (802.11b CH. 01) + USB Cable 2 (Charging from Adapter)
Remark: <ol style="list-style-type: none"> The worst case of conducted emission is mode 1; only the test data of it was reported. For Radiated Test Cases, the tests were performed with USB Cable 2. 	

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 EUT Operation Test Setup

The RF test items, utility "Tera Term v4.89" was installed in Notebook which was programmed in order to make the EUT get into the engineering modes to provide channel selection, power level, data rate and the application type and for continuous transmitting signals.



2.5 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 10dB 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.

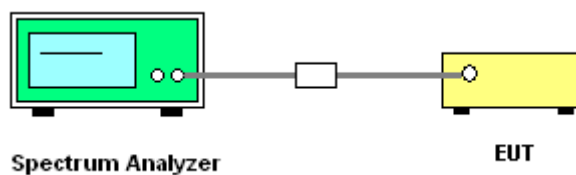
3.1.2 Measuring Instruments

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 to the maximum power setting and enable the EUT 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





The figure consists of two side-by-side spectral plots. The left plot is titled "Minimum 6dB Bandwidth" and shows a signal spectrum with a blue trace. A red horizontal line indicates the -1 dB level. Two vertical green lines mark the edges of the signal, labeled "P1" and "P2". The right plot is titled "Maximum 99% Occupied Bandwidth" and shows the same signal spectrum with a blue trace. A red horizontal line indicates the -1 dB level. Two vertical green lines mark the edges of the signal, labeled "P1" and "P2".

Parameter	Left Plot (Minimum 6dB Bandwidth)	Right Plot (Maximum 99% Occupied Bandwidth)
Ref	30 dBm	20 dBm
Att	20 dB	20 dB
RBW	100 kHz	1 MHz
VBW	300 kHz	3 MHz
SWT	5 ms	5 ms
Marker 1 [F1]	0.03 dBm	2.37 dBm
Delta 1 [F1]	0.41 dB	-
Center Frequency	2.406960000 GHz	2.449300000 GHz
Span	20 MHz	100 MHz

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 2400-2483.5MHz, the limit for output power is 30dBm. If transmitting antenna with directional gain greater than 6dBi 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 1dB for every 3dB that the directional gain of the antenna exceeds 6dBi.

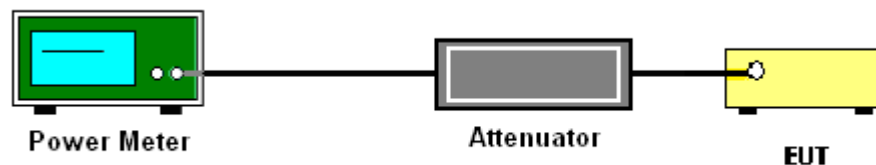
3.2.2 Measuring Instruments

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 to the maximum power setting and enable the EUT 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 8dBm in any 3kHz band at any time interval of continuous transmission.

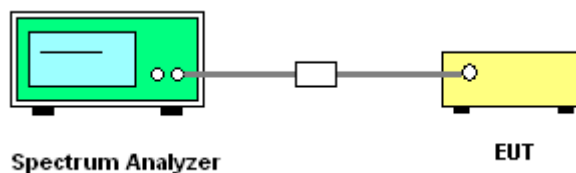
3.3.2 Measuring Instruments

See list of measuring equipment of this test report.

3.3.3 Test Procedures

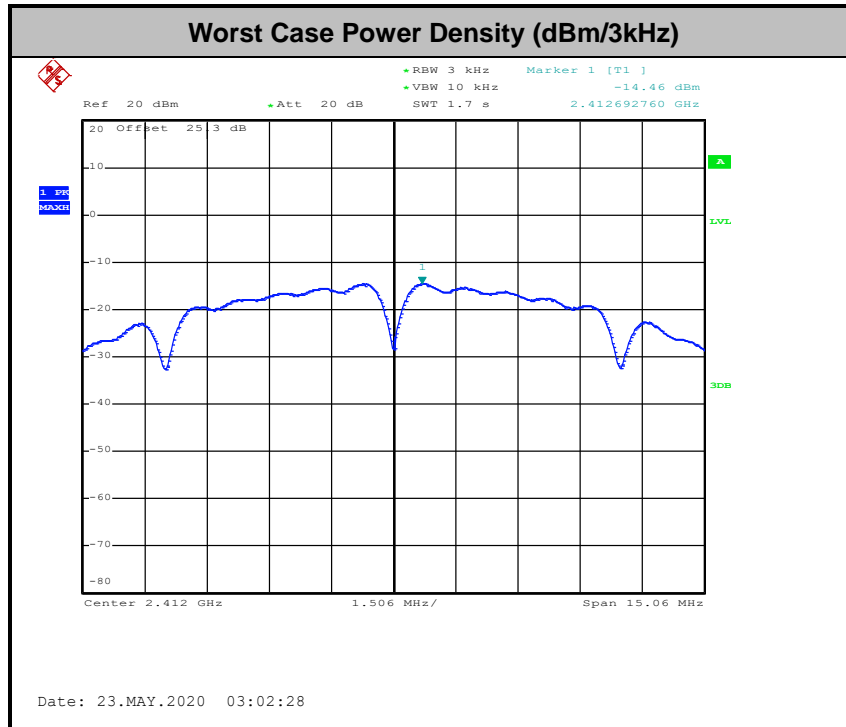
1. The testing follows the ANSI C63.10 Section 11.10.2 Method PKPSD.
2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the EUT transmit continuously.
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.

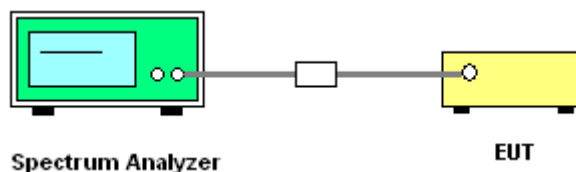
3.4.2 Measuring Instruments

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 to the maximum power setting and enable the EUT 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

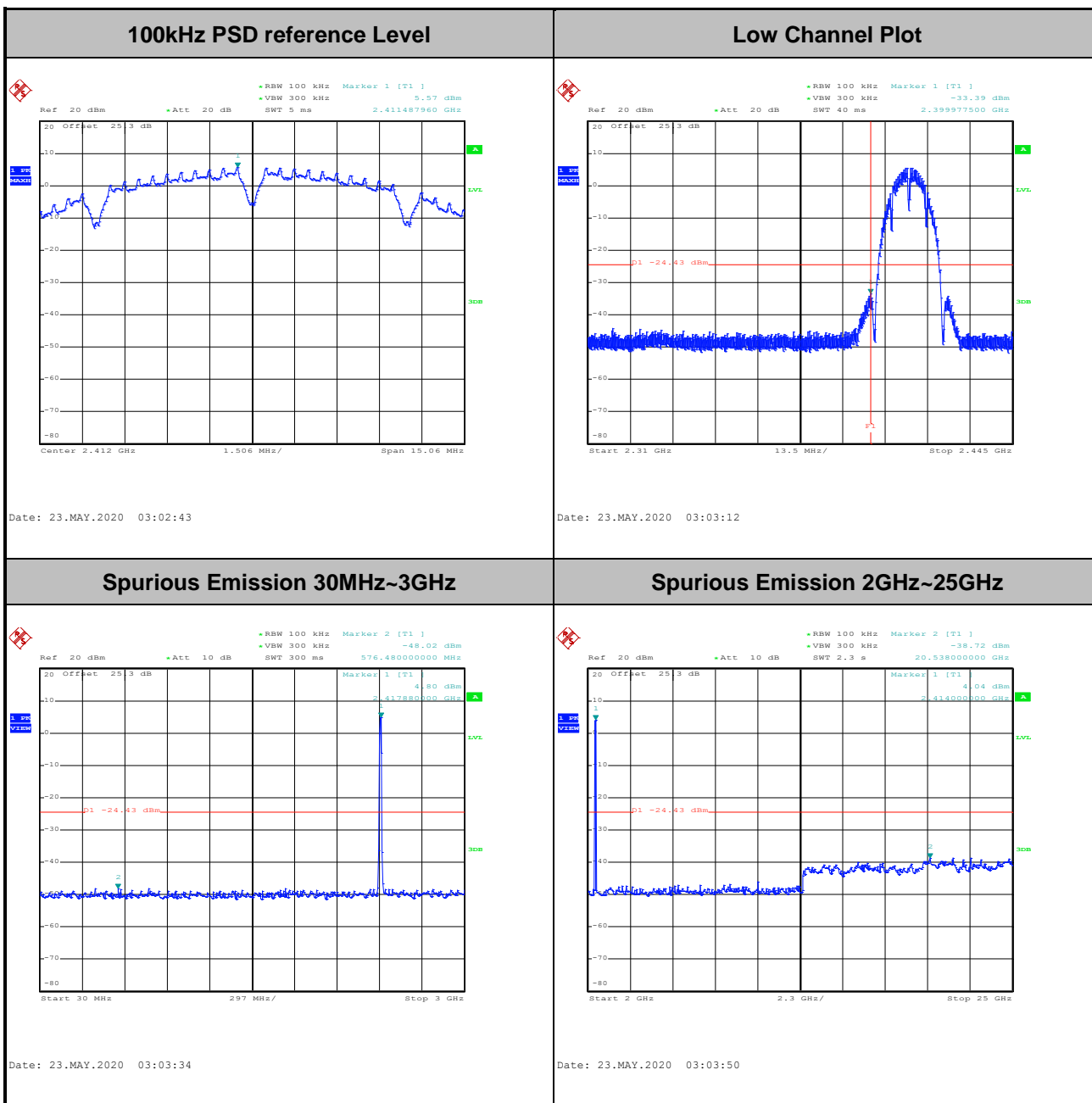




3.4.5 Test Result of Conducted Band Edges and Spurious Emission

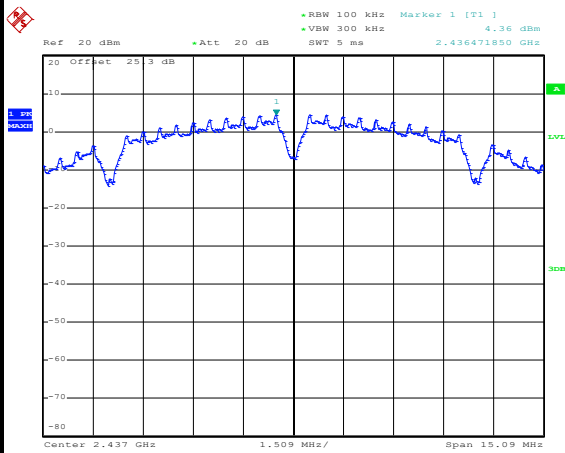
Test Engineer :	Hank Hsu and Howard Lin	Temperature :	21~25°C
		Relative Humidity :	51~54%

Test Mode :	802.11b	Test Channel :	01
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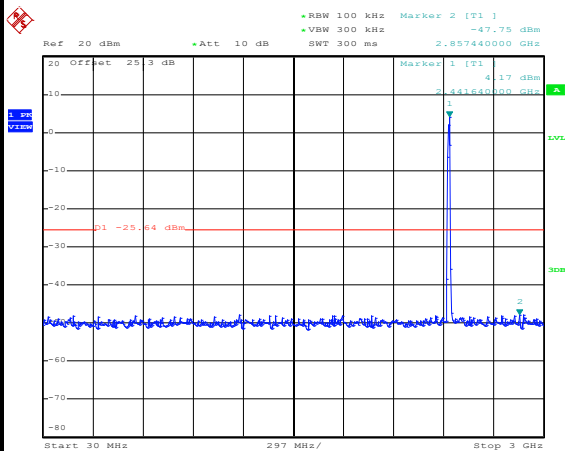




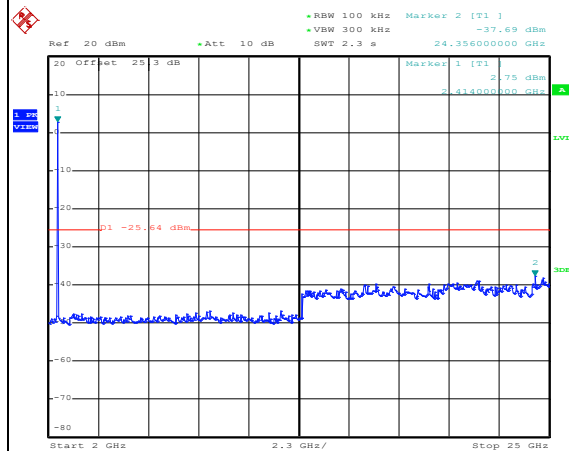
Test Mode :	802.11b	Test Channel :	06
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100kHz PSD reference Level

Date: 23.MAY.2020 03:07:20

Mid Channel Plot**Spurious Emission 30MHz~3GHz**

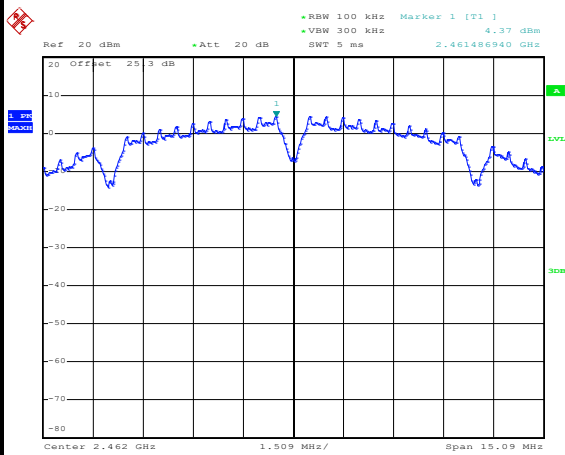
Date: 23.MAY.2020 03:07:47

Spurious Emission 2GHz~25GHz

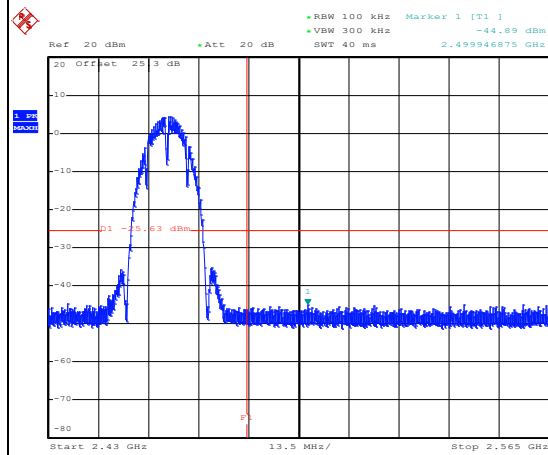
Date: 23.MAY.2020 03:08:21



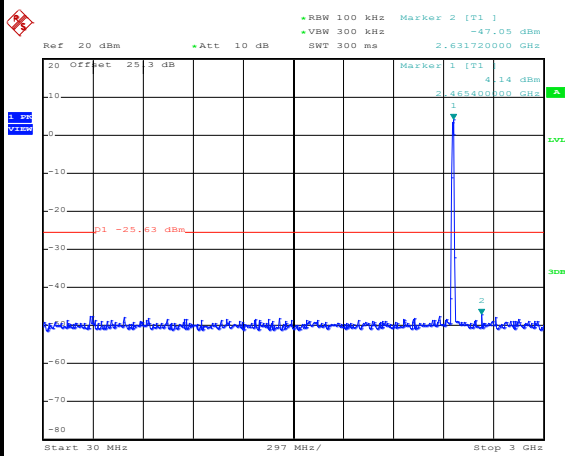
Test Mode :	802.11b	Test Channel :	11
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100kHz PSD reference Level

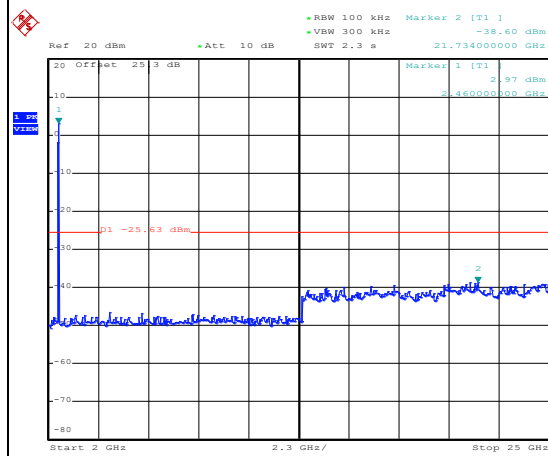
Date: 23.MAY.2020 03:14:24

High Channel Plot

Date: 23.MAY.2020 03:14:55

Spurious Emission 30MHz~3GHz

Date: 23.MAY.2020 03:15:17

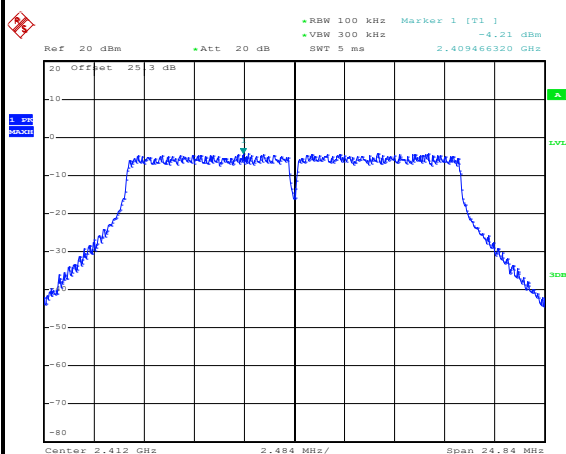
Spurious Emission 2GHz~25GHz

Date: 23.MAY.2020 03:15:33



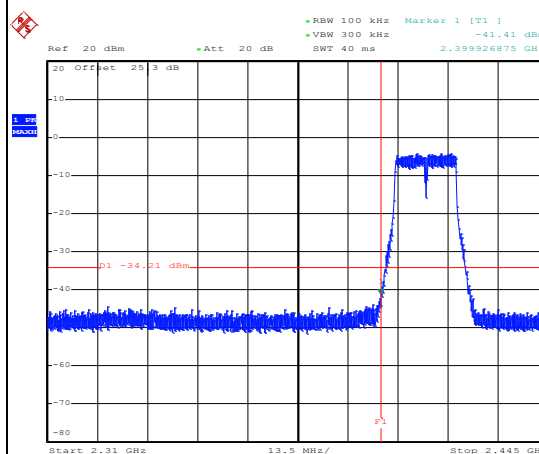
Test Mode :	802.11g	Test Channel :	01
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100kHz PSD reference Level



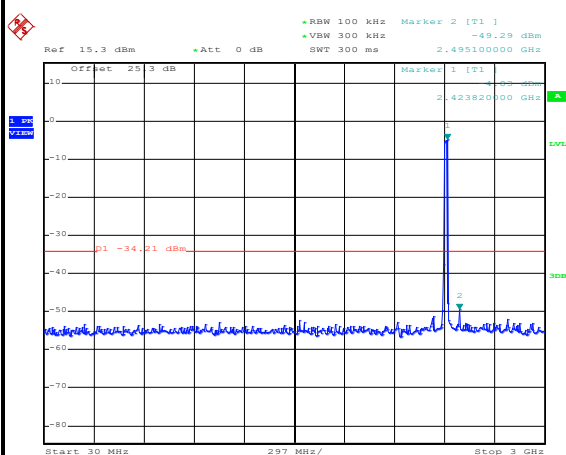
Date: 25.MAY.2020 10:50:17

Low Channel Plot



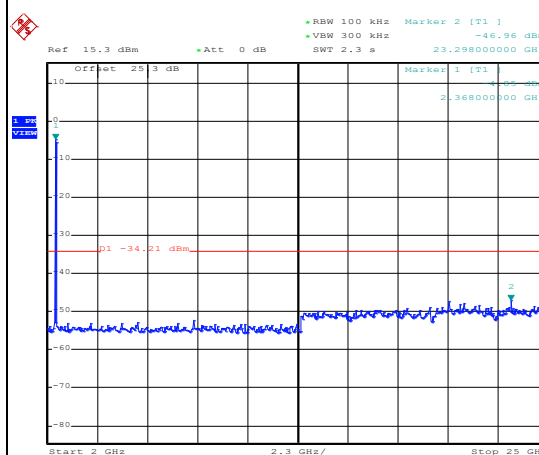
Date: 25.MAY.2020 10:50:35

Spurious Emission 30MHz~3GHz



Date: 25.MAY.2020 10:51:45

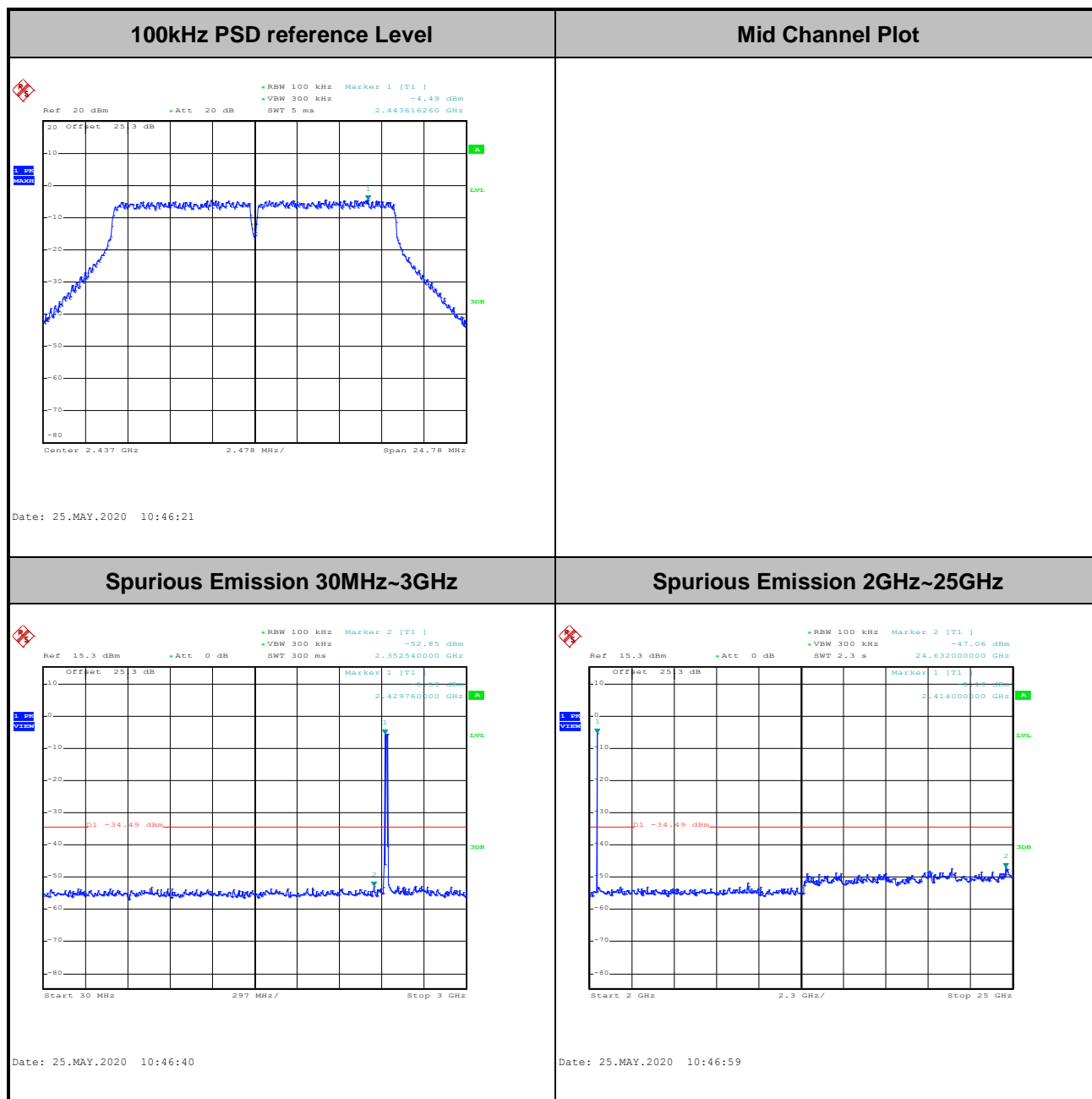
Spurious Emission 2GHz~25GHz



Date: 25.MAY.2020 10:52:27



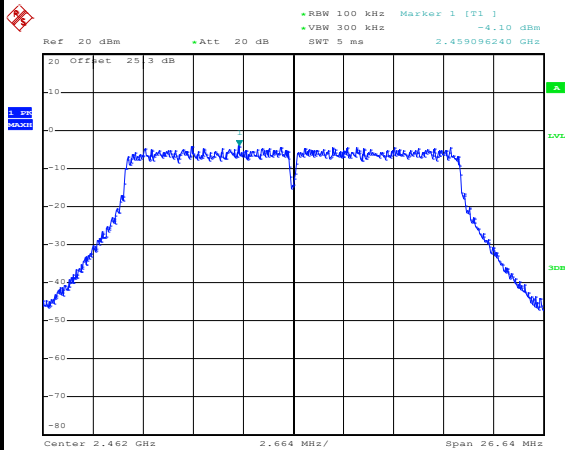
Test Mode :	802.11g	Test Channel :	06
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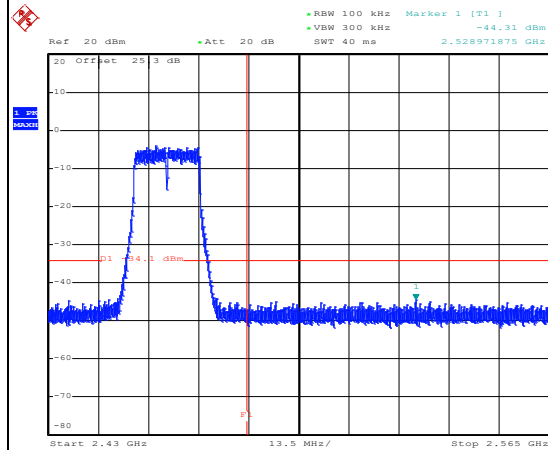
Test Mode :	802.11g	Test Channel :	11
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100kHz PSD reference Level



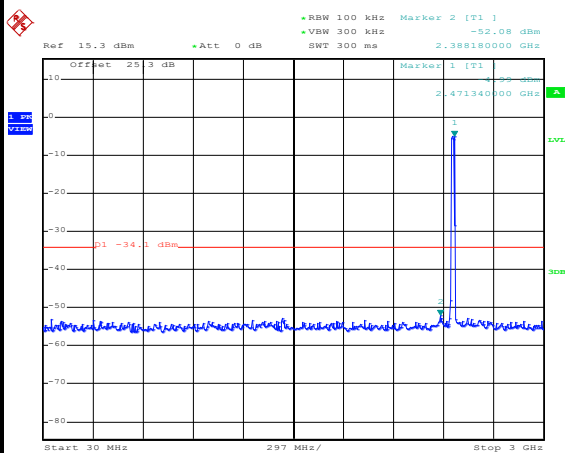
Date: 25.MAY.2020 11:02:25

High Channel Plot



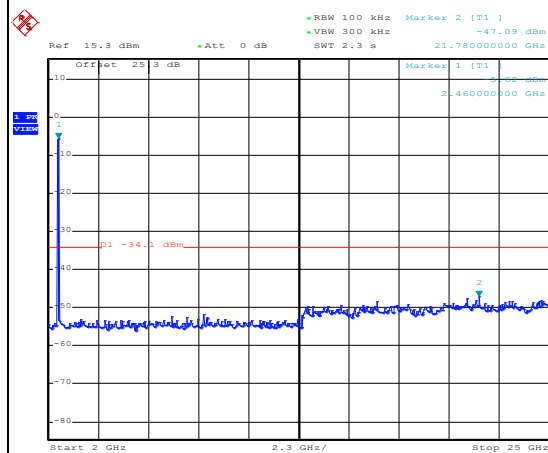
Date: 25.MAY.2020 11:04:34

Spurious Emission 30MHz~3GHz



Date: 25.MAY.2020 11:04:56

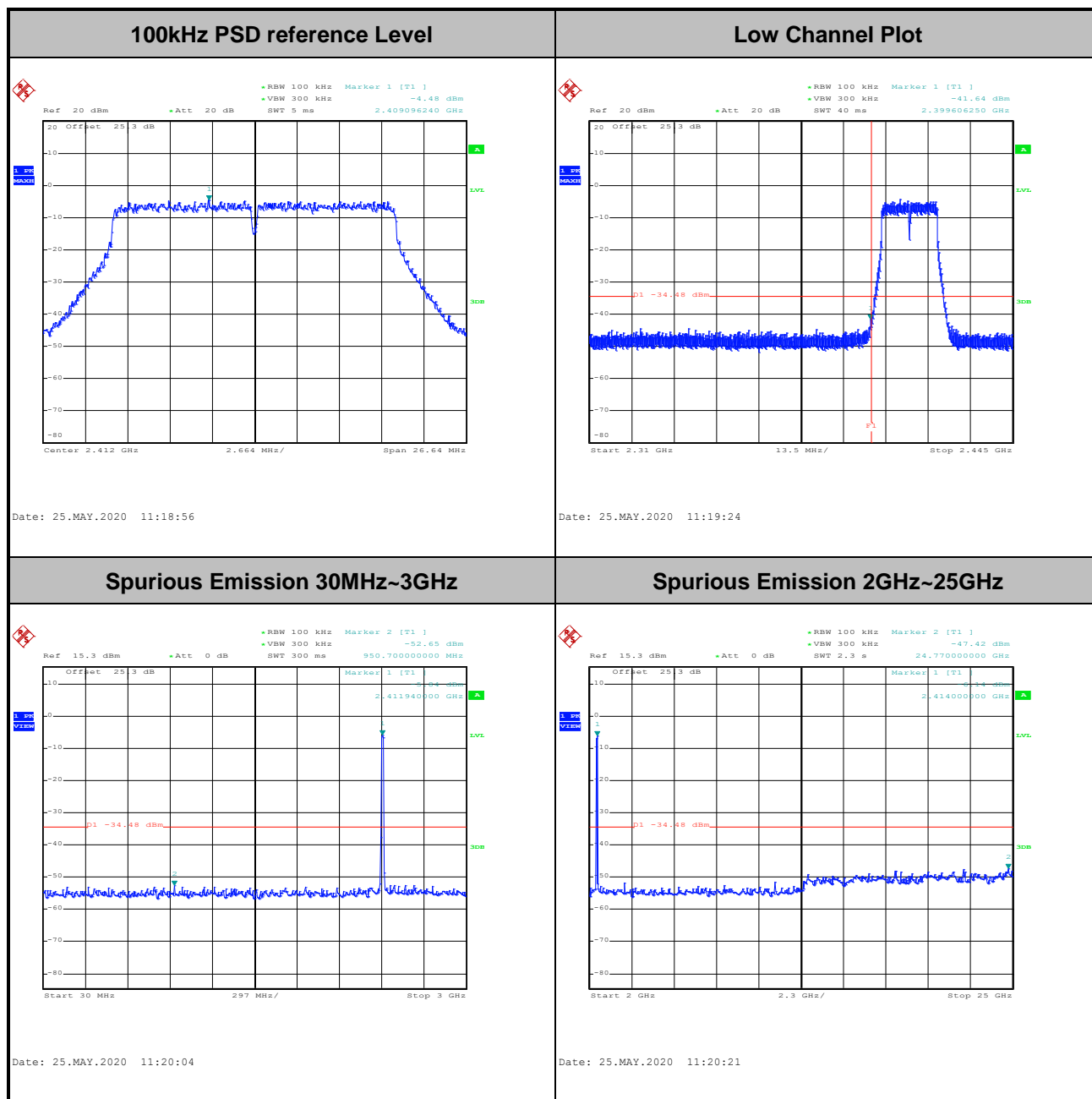
Spurious Emission 2GHz~25GHz



Date: 25.MAY.2020 11:05:10

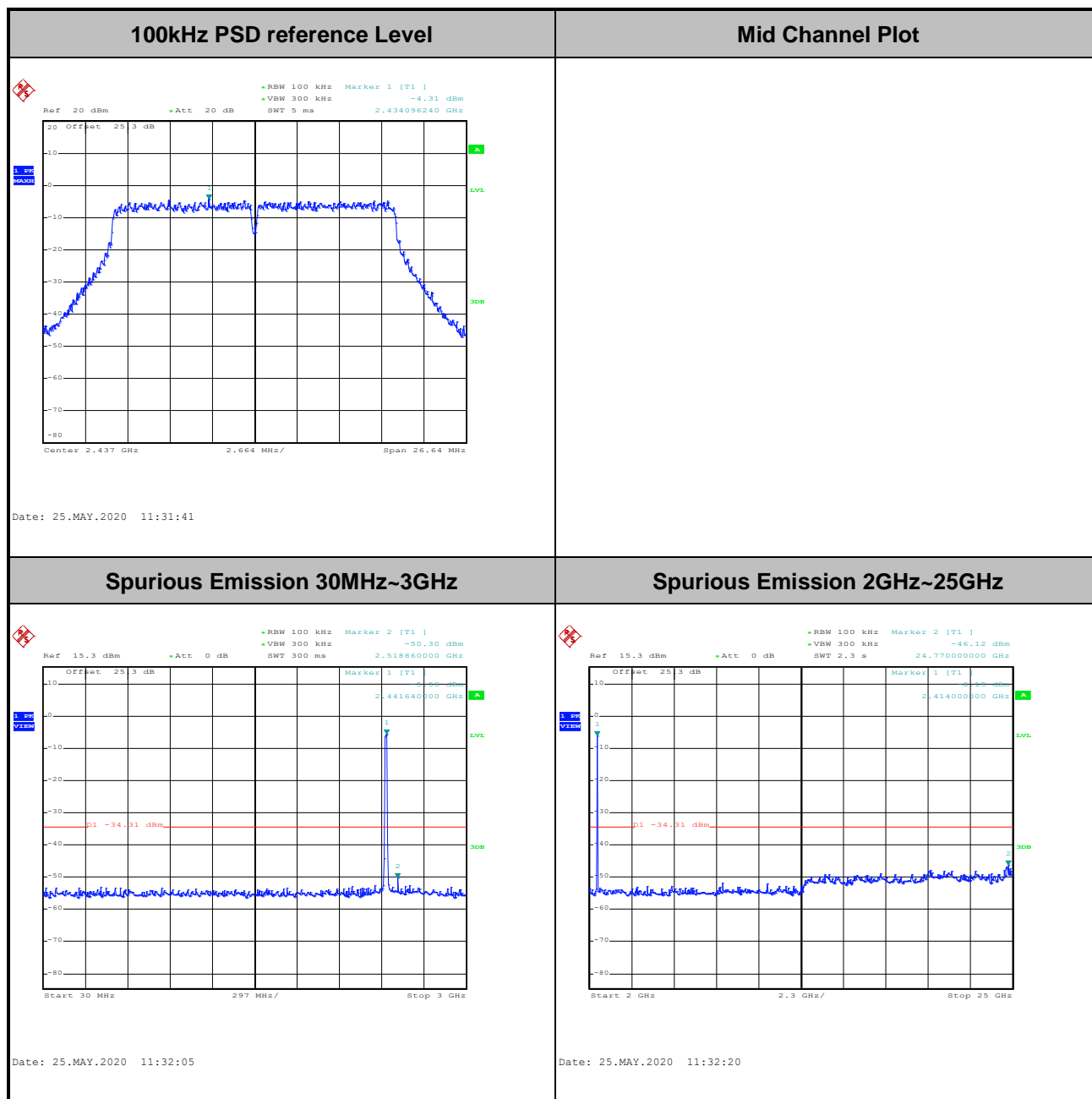


Test Mode :	802.11n HT20	Test Channel :	01
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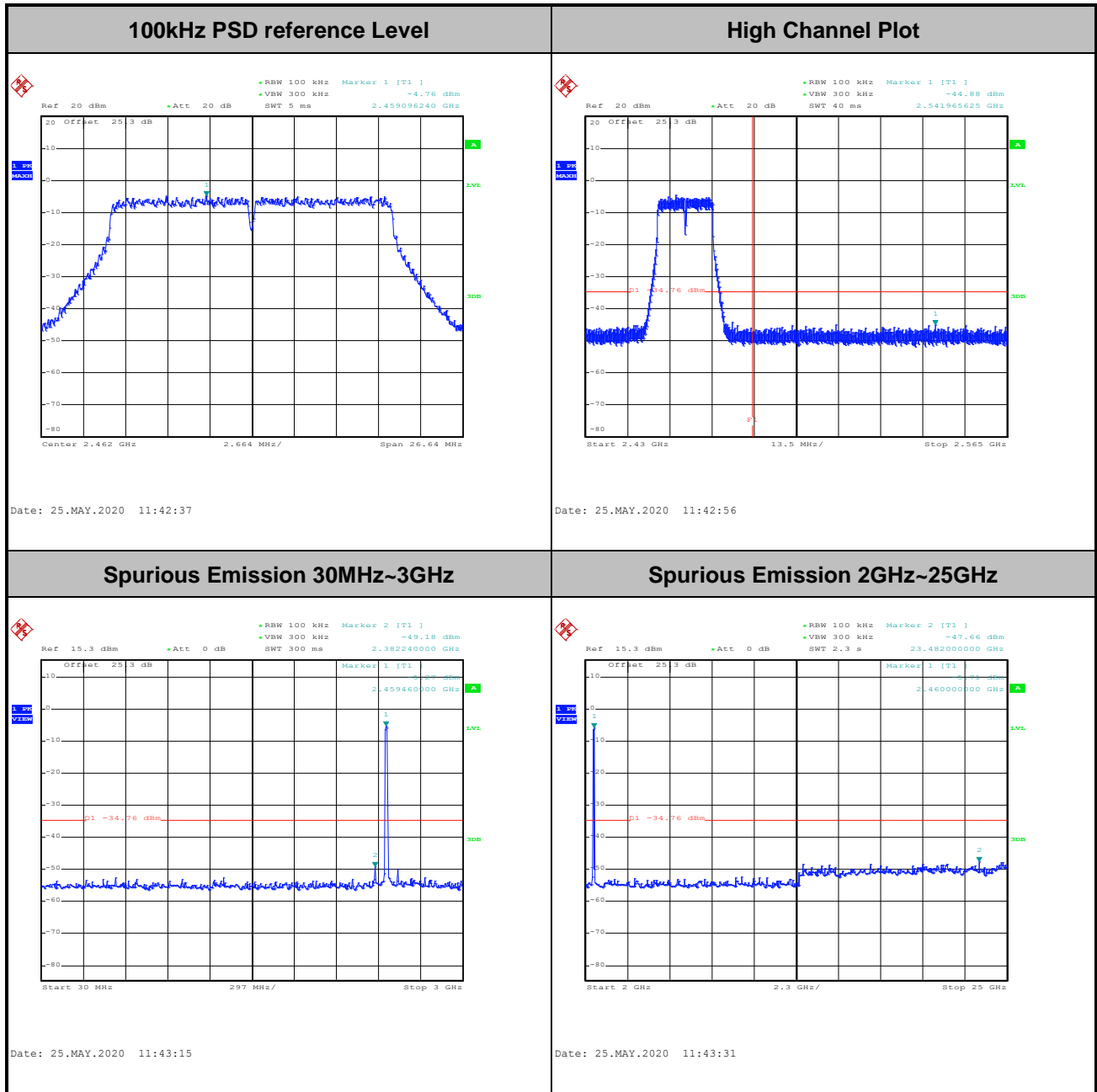


Test Mode :	802.11n HT20	Test Channel :	06
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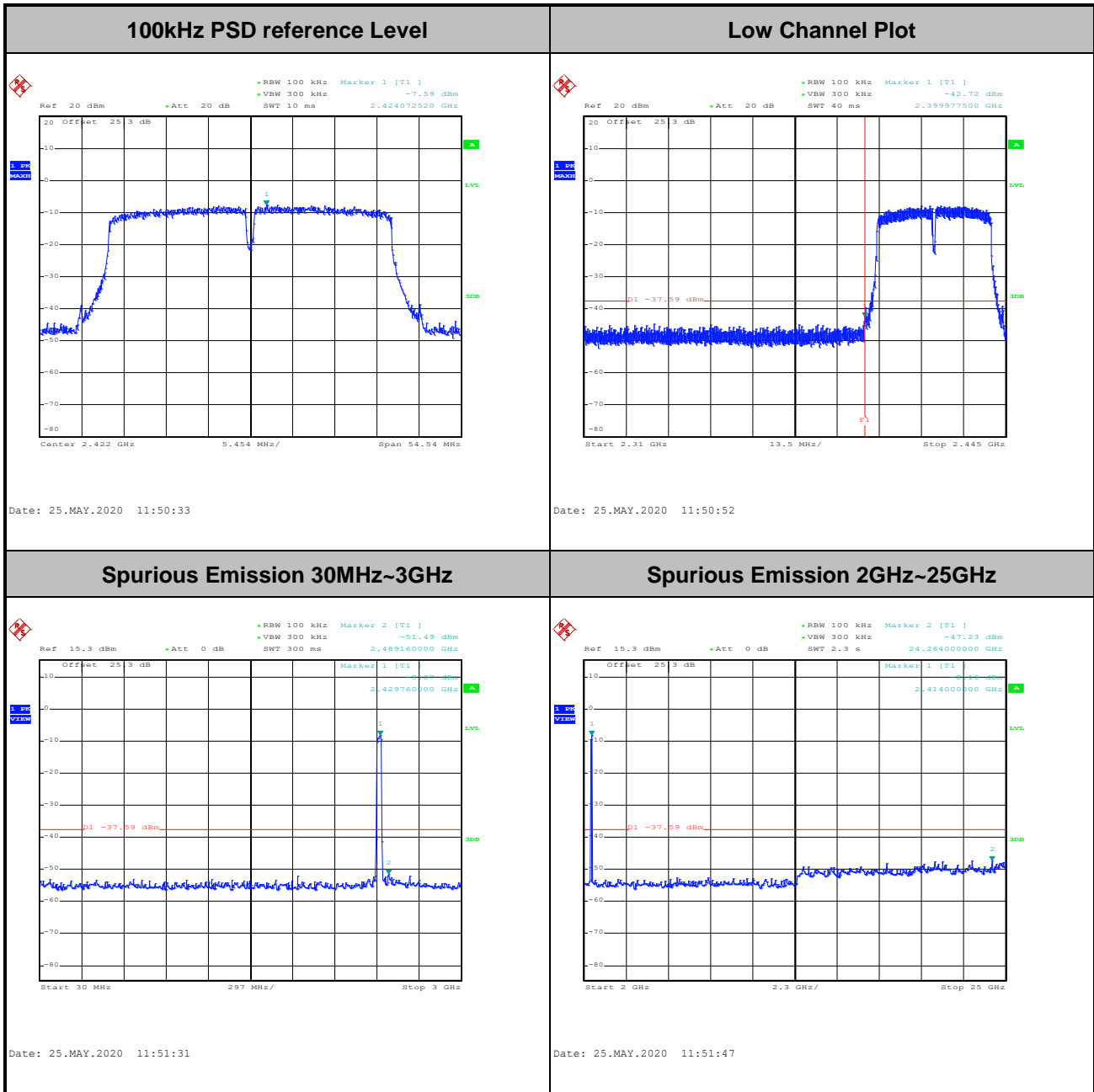


Test Mode :	802.11n HT20	Test Channel :	11
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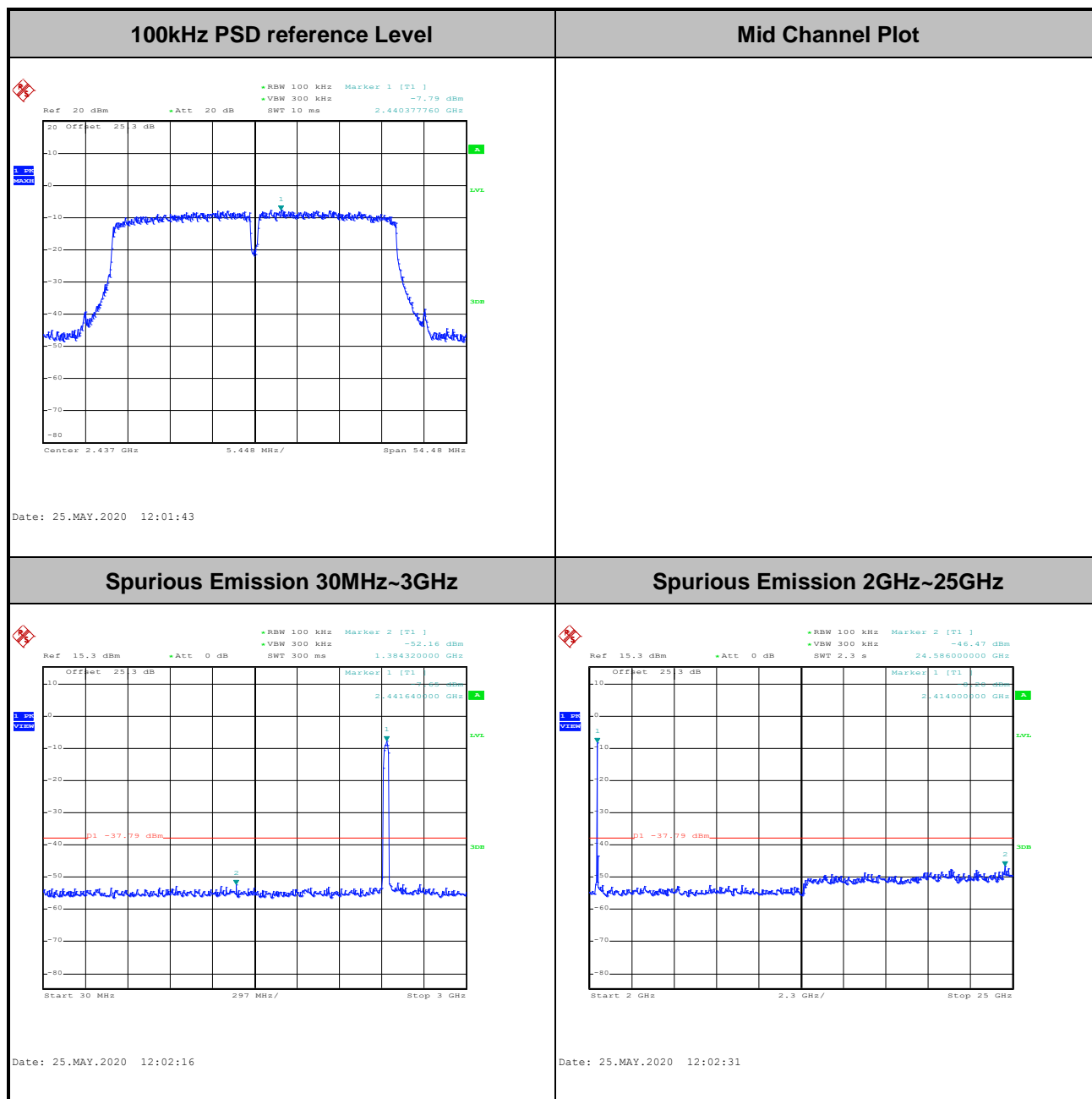


Test Mode :	802.11n HT40	Test Channel :	03
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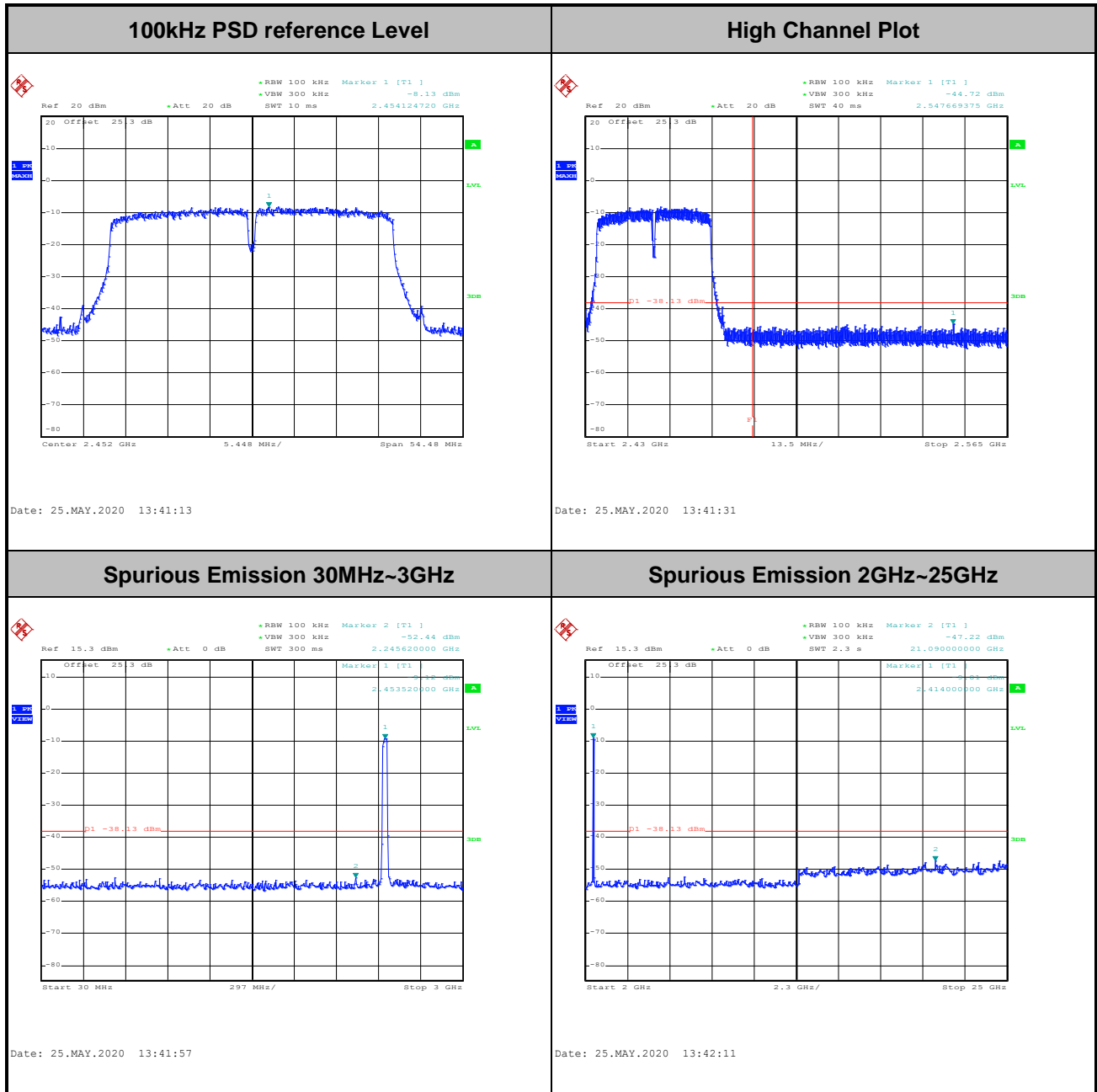


Test Mode :	802.11n HT40	Test Channel :	06
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Test Mode :	802.11n HT40	Test Channel :	09
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3.5 Radiated Band Edges and Spurious Emission Measurement

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

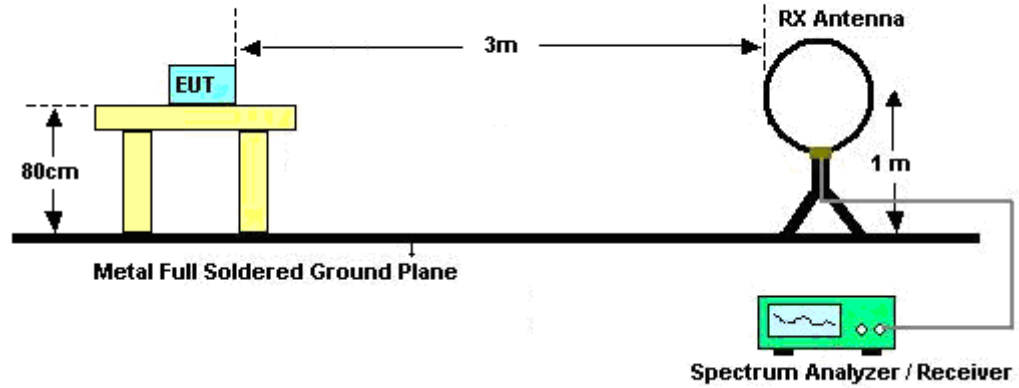
See list of measuring equipment of this test report.

3.5.3 Test Procedures

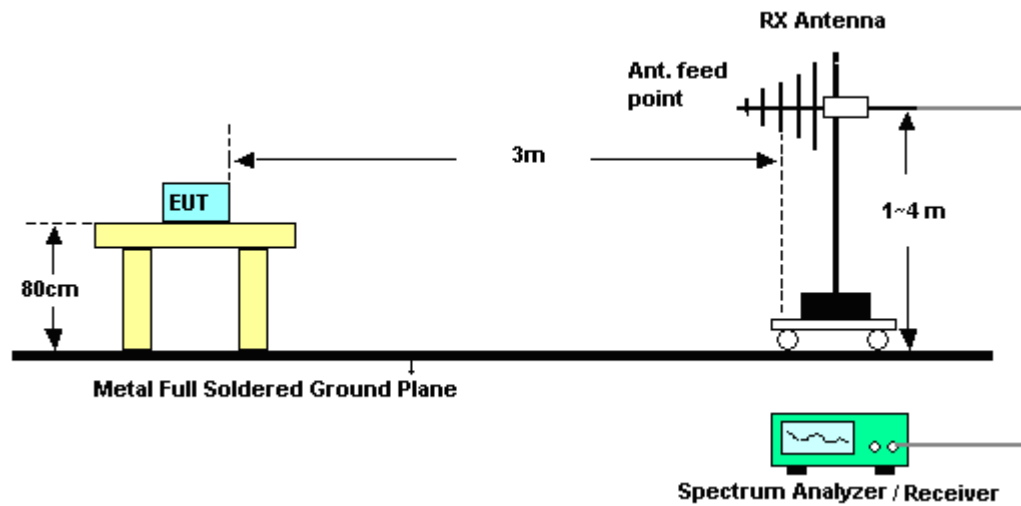
1. The testing follows the ANSI C63.10 Section 11.12.1 Radiated emission measurements.
2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level.
3. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz 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 1GHz, 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 1GHz, the emission level of the EUT in peak mode was 20dB 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= 3MHz 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

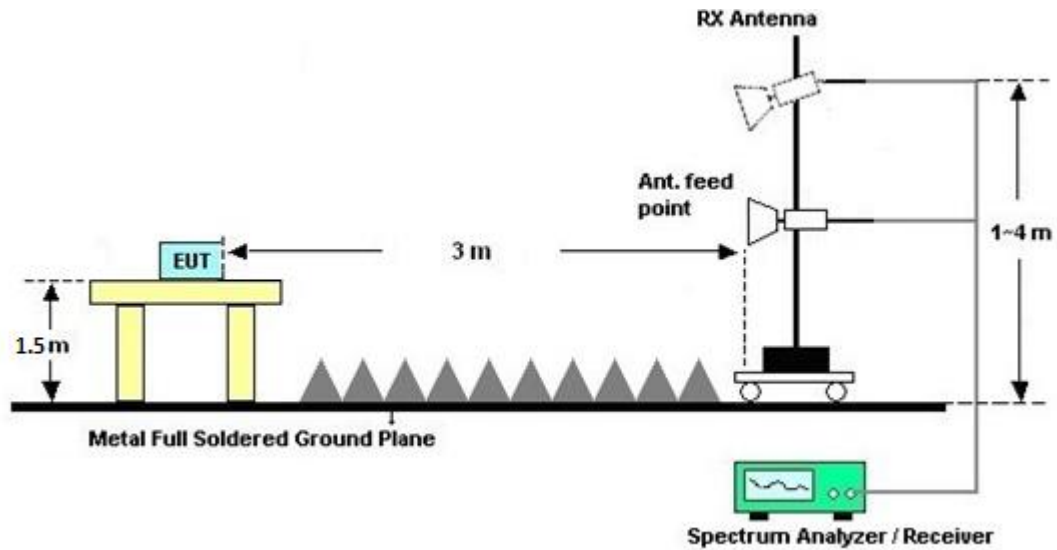
For radiated emissions below 30MHz



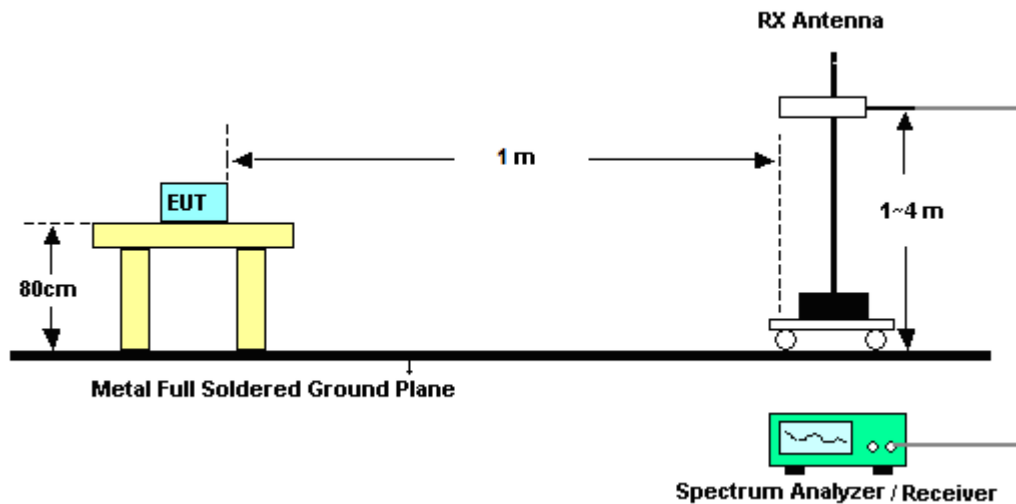
For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz



For radiated emissions 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.

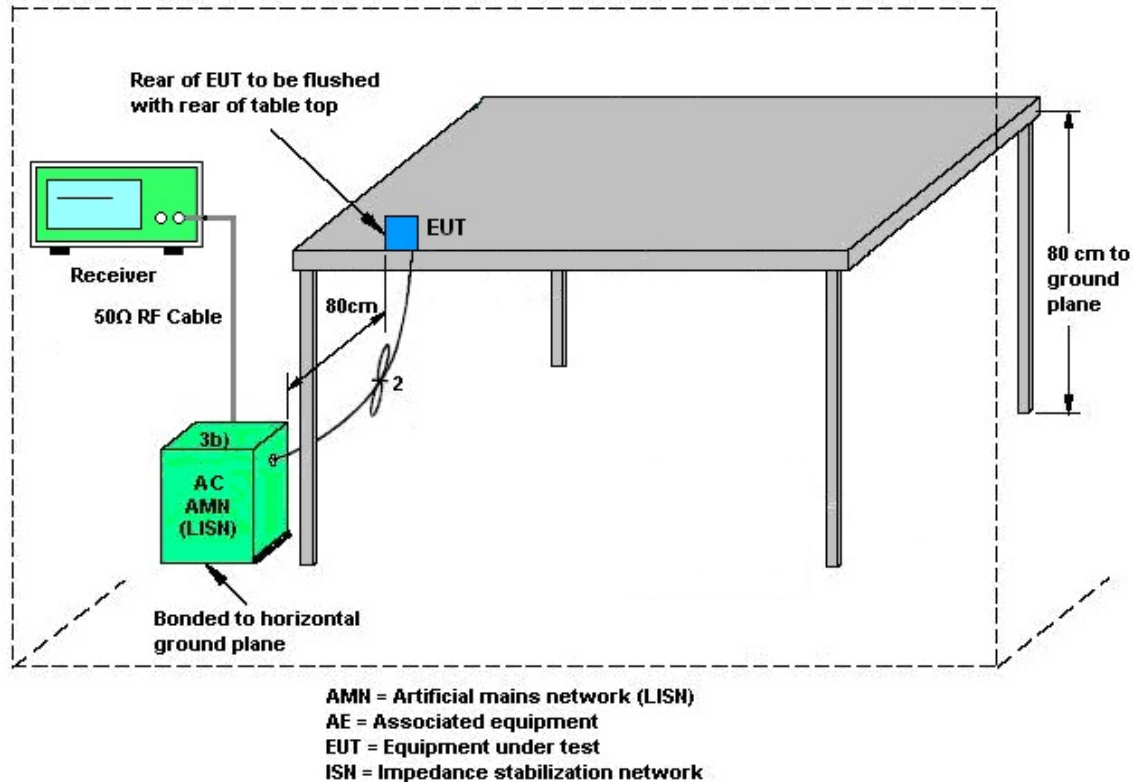
3.6.2 Measuring Instruments

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 should 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 6dBi, the power shall be reduced by the same level in dB comparing to gain minus 6dBi. 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	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
AC Power Source	ChainTek	APC-1000W	N/A	N/A	N/A	Jun. 01, 2020 ~ Jun. 02, 2020	N/A	Conduction (CO05-HY)
EMI Test Receiver	Rohde & Schwarz	ESR3	102388	9kHz~3.6GHz	Nov. 15, 2019	Jun. 01, 2020 ~ Jun. 02, 2020	Nov. 14, 2020	Conduction (CO05-HY)
Hygrometer	Testo	608-H1	34913912	N/A	Nov. 07, 2019	Jun. 01, 2020 ~ Jun. 02, 2020	Nov. 06, 2020	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100081	9kHz~30MHz	Nov. 15, 2019	Jun. 01, 2020 ~ Jun. 02, 2020	Nov. 14, 2020	Conduction (CO05-HY)
Software	Rohde & Schwarz	EMC32 V10.30	N/A	N/A	N/A	Jun. 01, 2020 ~ Jun. 02, 2020	N/A	Conduction (CO05-HY)
LF Cable	HUBER + SUHNER	RG-214/U	LF01	N/A	Jan. 02, 2020	Jun. 01, 2020 ~ Jun. 02, 2020	Jan. 01, 2021	Conduction (CO05-HY)
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100851	N/A	Jan. 02, 2020	Jun. 01, 2020 ~ Jun. 02, 2020	Jan. 01, 2021	Conduction (CO05-HY)
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100488	9 kHz~30 MHz	Jan. 09, 2020	May 20, 2020~ May 25, 2020	Jan. 08, 2021	Radiation (03CH15-HY)
Bilog Antenna	TESEQ	CBL6111D&00800N1D01N-06	41912&05	30MHz to 1GHz	Feb. 09, 2020	May 20, 2020~ May 25, 2020	Feb. 08, 2021	Radiation (03CH15-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-1620	1-18GHz	Jul. 31, 2019	May 20, 2020~ May 25, 2020	Jul. 30, 2020	Radiation (03CH15-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170584	18GHz- 40GHz	Dec. 10, 2019	May 20, 2020~ May 25, 2020	Dec. 09, 2020	Radiation (03CH15-HY)
Amplifier	SONOMA	310N	363440	9kHz~1GHz	Dec. 27, 2019	May 20, 2020~ May 25, 2020	Dec. 26, 2020	Radiation (03CH15-HY)
Preamplifier	Jet-Power	JPA0118-55-303	1710001800055006	1GHz~18GHz	May 07, 2020	May 20, 2020~ May 25, 2020	May 06, 2021	Radiation (03CH15-HY)
Preamplifier	Keysight	83017A	MY53270195	1GHz~26.5GHz	Aug. 23, 2019	May 20, 2020~ May 25, 2020	Aug. 22, 2020	Radiation (03CH15-HY)
Preamplifier	EMEC	EM18G40G	060715	18GHz ~ 40GHz	Dec. 13, 2019	May 20, 2020~ May 25, 2020	Dec. 12, 2020	Radiation (03CH15-HY)
EMI Test Receiver	Keysight	N9038A(MXE)	MY54130085	20MHz~8.4GHz	Nov. 01, 2019	May 20, 2020~ May 25, 2020	Oct. 31, 2020	Radiation (03CH15-HY)
EMI Test Receiver	Rohde & Schwarz	ESU26	100390	20Hz~26.5GHz	Feb. 25, 2020	May 20, 2020~ May 25, 2020	Feb. 24, 2021	Radiation (03CH15-HY)
Antenna Mast	ChainTek	MBS-520-1	N/A	1m~4m	N/A	May 20, 2020~ May 25, 2020	N/A	Radiation (03CH15-HY)
Turn Table	ChainTek	T-200-S-1	N/A	0~360 Degree	N/A	May 20, 2020~ May 25, 2020	N/A	Radiation (03CH15-HY)
Software	Audix	E3 6.2009-8-24 (k5)	RK-000451	N/A	N/A	May 20, 2020~ May 25, 2020	N/A	Radiation (03CH15-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY36980/4	30M-18G	Apr. 14, 2020	May 20, 2020~ May 25, 2020	Apr. 13, 2021	Radiation (03CH15-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY9838/4PE	30M-18G	Apr. 14, 2020	May 20, 2020~ May 25, 2020	Apr. 13, 2021	Radiation (03CH15-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY37710/4	30M~18GHz	Apr. 17, 2020	May 20, 2020~ May 25, 2020	Apr. 16, 2021	Radiation (03CH15-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	505134/2	30MHz-40GHz	Feb. 25, 2020	May 20, 2020~ May 25, 2020	Feb. 24, 2021	Radiation (03CH15-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	800740/2	30MHz-40GHz	Feb. 25, 2020	May 20, 2020~ May 25, 2020	Feb. 24, 2021	Radiation (03CH15-HY)
Filter	Wainwright	WLK4-1000-1530-8000-40SS	SN4	1.53G Low Pass	Jul. 04, 2019	May 20, 2020~ May 25, 2020	Jul. 03, 2020	Radiation (03CH15-HY)
Filter	Wainwright	WHKX12-2700-3000-18000-60ST	SN4	3GHz High Pass Filter	Sep. 17, 2019	May 20, 2020~ May 25, 2020	Sep. 16, 2020	Radiation (03CH15-HY)



Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Hygrometer	Testo	608-H2	41410069	N/A	Jun. 17, 2019	Mar. 19, 2020~ May 25, 2020	Jun. 16, 2020	Conducted (TH05-HY)
Power Sensor	DARE	RPR3006W	13I00030SNO 32	9kHz~6GHz	Dec. 17, 2019	Mar. 19, 2020~ May 25, 2020	Dec. 16, 2020	Conducted (TH05-HY)
Signal Analyzer	Rohde & Schwarz	FSP40	100057	9kHz~40GHz	Dec. 09, 2019	Mar. 19, 2020~ May 25, 2020	Dec. 08, 2020	Conducted (TH05-HY)
Switch Control Manframe	E-IUSTRUMENT	ETF-1405-0	EC1900067	N/A	Aug. 15, 2019	Mar. 19, 2020~ May 25, 2020	Aug. 14, 2020	Conducted (TH05-HY)

5 Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	2.3
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Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.0
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Uncertainty of Radiated Emission Measurement (1000 MHz ~ 18000 MHz)

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.0
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Appendix A. Test Result of Conducted Test Items

Test Engineer:	Hank Hsu/Howard Lin	Temperature:	21~25	°C
Test Date:	2020/3/19~2020/5/25	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	15.00	-	10.04	-	0.50	Pass
11b	1Mbps	1	6	2437	15.05	-	10.06	-	0.50	Pass
11b	1Mbps	1	11	2462	15.00	-	10.06	-	0.50	Pass
11g	6Mbps	1	1	2412	16.85	-	16.56	-	0.50	Pass
11g	6Mbps	1	6	2437	16.80	-	16.52	-	0.50	Pass
11g	6Mbps	1	11	2462	17.85	-	17.76	-	0.50	Pass
HT20	MCS0	1	1	2412	17.85	-	17.76	-	0.50	Pass
HT20	MCS0	1	6	2437	17.90	-	17.76	-	0.50	Pass
HT20	MCS0	1	11	2462	17.90	-	17.76	-	0.50	Pass
HT40	MCS0	1	3	2422	36.30	-	36.36	-	0.50	Pass
HT40	MCS0	1	6	2437	36.30	-	36.32	-	0.50	Pass
HT40	MCS0	1	9	2452	36.40	-	36.32	-	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	SUM	Ant1	Ant2	Ant1	Ant2	Ant1	Ant2	Ant1	Ant2	
11b	1Mbps	1	1	2412	15.20	-		30.00	-	2.54	-	17.74	-	36.00	-	Pass
11b	1Mbps	1	6	2437	14.80	-		30.00	-	2.54	-	17.34	-	36.00	-	Pass
11b	1Mbps	1	11	2462	15.00	-		30.00	-	2.54	-	17.54	-	36.00	-	Pass
11g	6Mbps	1	1	2412	11.30	-		30.00	-	2.54	-	13.84	-	36.00	-	Pass
11g	6Mbps	1	6	2437	10.90	-		30.00	-	2.54	-	13.44	-	36.00	-	Pass
11g	6Mbps	1	11	2462	11.10	-		30.00	-	2.54	-	13.64	-	36.00	-	Pass
HT20	MCS0	1	1	2412	10.60	-		30.00	-	2.54	-	13.14	-	36.00	-	Pass
HT20	MCS0	1	6	2437	10.40	-		30.00	-	2.54	-	12.94	-	36.00	-	Pass
HT20	MCS0	1	11	2462	10.10	-		30.00	-	2.54	-	12.64	-	36.00	-	Pass
HT40	MCS0	1	3	2422	10.00	-		30.00	-	2.54	-	12.54	-	36.00	-	Pass
HT40	MCS0	1	6	2437	9.90	-		30.00	-	2.54	-	12.44	-	36.00	-	Pass
HT40	MCS0	1	9	2452	9.30	-		30.00	-	2.54	-	11.84	-	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	-14.46	-	2.54	-	8.00	-	Pass
11b	1Mbps	1	6	2437	-15.72	-	2.54	-	8.00	-	Pass
11b	1Mbps	1	11	2462	-15.65	-	2.54	-	8.00	-	Pass
11g	6Mbps	1	1	2412	-18.18	-	2.54	-	8.00	-	Pass
11g	6Mbps	1	6	2437	-18.68	-	2.54	-	8.00	-	Pass
11g	6Mbps	1	11	2462	-17.70	-	2.54	-	8.00	-	Pass
HT20	MCS0	1	1	2412	-18.70	-	2.54	-	8.00	-	Pass
HT20	MCS0	1	6	2437	-18.29	-	2.54	-	8.00	-	Pass
HT20	MCS0	1	11	2462	-18.78	-	2.54	-	8.00	-	Pass
HT40	MCS0	1	3	2422	-20.62	-	2.54	-	8.00	-	Pass
HT40	MCS0	1	6	2437	-21.76	-	2.54	-	8.00	-	Pass
HT40	MCS0	1	9	2452	-21.98	-	2.54	-	8.00	-	Pass

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



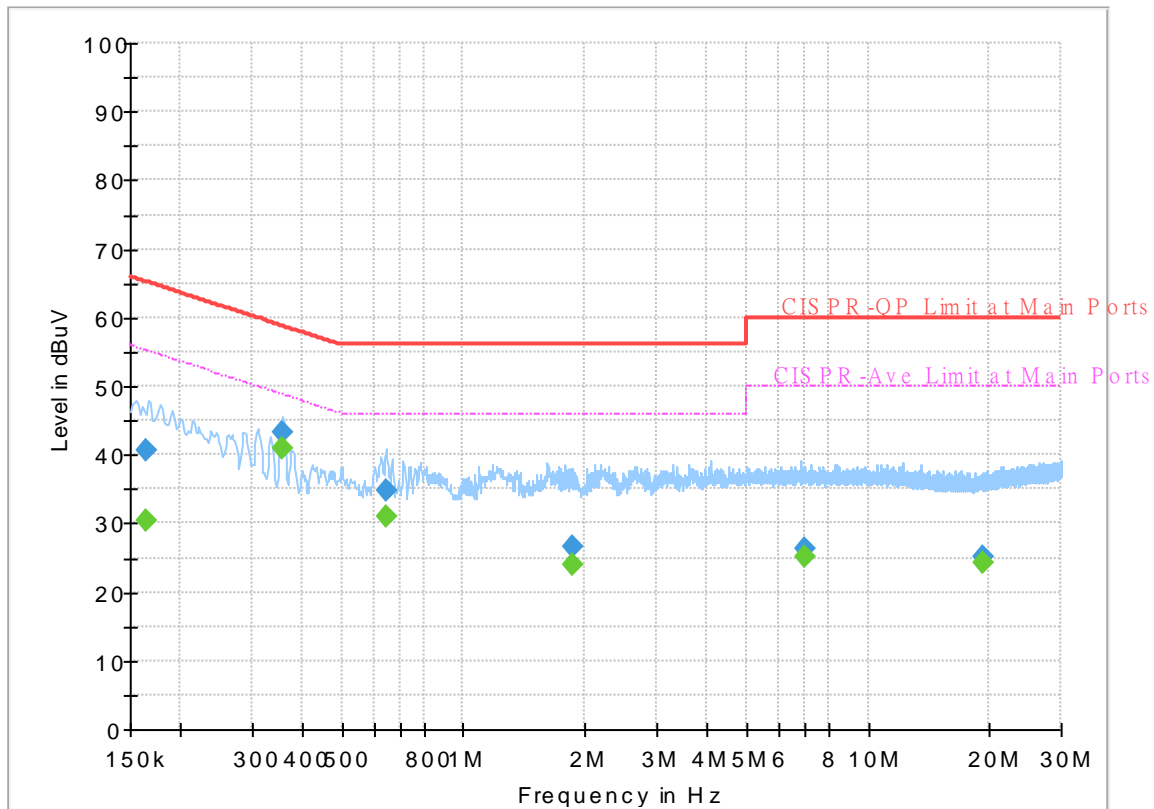
Appendix B. AC Conducted Emission Test Results

Test Engineer :	Howard Huang	Temperature :	21~24℃
		Relative Humidity :	40~45%

EUT Information

Report NO : 022715
Test Mode : Mode 1
Test Voltage : 120Vac/60Hz
Phase : Line

Full Spectrum



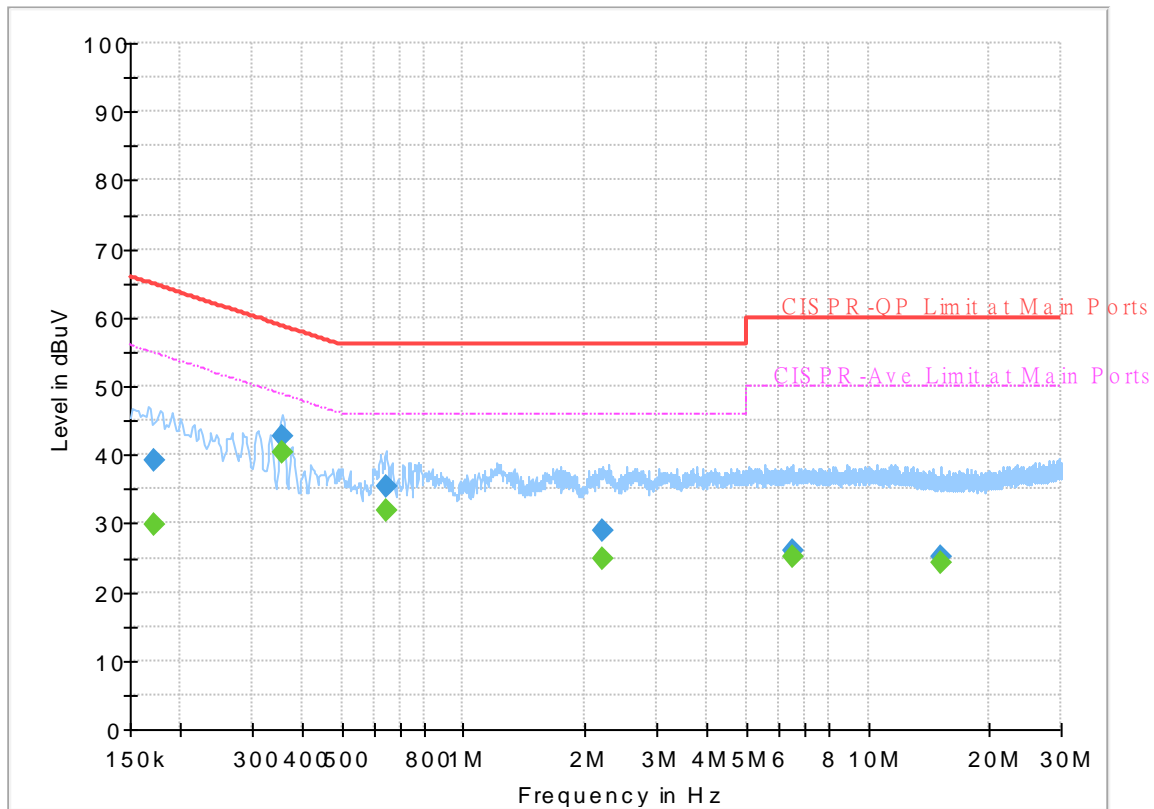
Final Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.163500	40.64	---	65.28	24.64	L1	OFF	19.6
0.163500	---	30.37	55.28	24.91	L1	OFF	19.6
0.356460	43.21	---	58.81	15.60	L1	OFF	19.6
0.356460	---	40.84	48.81	7.97	L1	OFF	19.6
0.645900	34.74	---	56.00	21.26	L1	OFF	19.6
0.645900	---	31.14	46.00	14.86	L1	OFF	19.6
1.851000	26.68	---	56.00	29.32	L1	OFF	19.6
1.851000	---	24.00	46.00	22.00	L1	OFF	19.6
7.008000	26.20	---	60.00	33.80	L1	OFF	19.9
7.008000	---	25.16	50.00	24.84	L1	OFF	19.9
19.212000	25.05	---	60.00	34.95	L1	OFF	20.4
19.212000	---	24.25	50.00	25.75	L1	OFF	20.4

EUT Information

Report NO : 022715
 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)
0.172500	---	29.76	54.84	25.08	N	OFF	19.6
0.172500	39.14	---	64.84	25.70	N	OFF	19.6
0.357270	---	40.25	48.79	8.54	N	OFF	19.6
0.357270	42.81	---	58.79	15.98	N	OFF	19.6
0.643740	---	31.80	46.00	14.20	N	OFF	19.6
0.643740	35.35	---	56.00	20.65	N	OFF	19.6
2.211000	---	24.98	46.00	21.02	N	OFF	19.6
2.211000	28.88	---	56.00	27.12	N	OFF	19.6
6.528750	---	25.11	50.00	24.89	N	OFF	19.9
6.528750	26.10	---	60.00	33.90	N	OFF	19.9
15.215730	---	24.29	50.00	25.71	N	OFF	20.2
15.215730	25.18	---	60.00	34.82	N	OFF	20.2



Appendix C. Radiated Spurious Emission

Test Engineer :	Leo Lee, Mancy Chou, and Bigshow Wang	Temperature :	22.8~23.1°C
		Relative Humidity :	55~60%

2.4GHz 2400~2483.5MHz

WIFI 802.11b (Band Edge @ 3m)

WIFI Ant.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Path Loss	Preampl Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11b CH 01 2412MHz		2329.845	57.31	-16.69	74	43.22	28.04	17.23	31.18	338	27	P	H
		2331.315	46.91	-7.09	54	32.81	28.04	17.23	31.17	338	27	A	H
	*	2412	104.85	-	-	90.91	27.68	17.39	31.13	338	27	P	H
	*	2412	101.18	-	-	87.24	27.68	17.39	31.13	338	27	A	H
													H
													H
		2323.755	56.29	-17.71	74	42.2	28.05	17.22	31.18	100	331	P	V
		2331.105	46.21	-7.79	54	32.11	28.04	17.23	31.17	100	331	A	V
	*	2412	102.57	-	-	88.63	27.68	17.39	31.13	100	331	P	V
	*	2412	99.05	-	-	85.11	27.68	17.39	31.13	100	331	A	V
													V
													V



802.11b CH 06 2437MHz		2338	55.82	-18.18	74	41.73	28.02	17.24	31.17	260	37	P	H
		2316.88	45.08	-8.92	54	30.99	28.07	17.2	31.18	260	37	A	H
	*	2437	104.18	-	-	90.24	27.63	17.43	31.12	260	37	P	H
	*	2437	99.91	-	-	85.97	27.63	17.43	31.12	260	37	A	H
		2498.56	55.49	-18.51	74	41.54	27.5	17.54	31.09	260	37	P	H
		2485.15	44.94	-9.06	54	30.99	27.53	17.52	31.1	260	37	A	H
		2340.88	55.62	-18.38	74	41.52	28.02	17.25	31.17	116	329	P	V
		2316.88	45.06	-8.94	54	30.97	28.07	17.2	31.18	116	329	A	V
	*	2437	101.65	-	-	87.71	27.63	17.43	31.12	116	329	P	V
	*	2437	97.56	-	-	83.62	27.63	17.43	31.12	116	329	A	V
		2489.74	54.97	-19.03	74	41.02	27.52	17.53	31.1	116	329	P	V
		2484.79	44.85	-9.15	54	30.9	27.53	17.52	31.1	116	329	A	V
802.11b CH 11 2462MHz	*	2462	103.51	-	-	89.56	27.58	17.48	31.11	290	19	P	H
	*	2462	99.99	-	-	86.04	27.58	17.48	31.11	290	19	A	H
		2498.56	56.2	-17.8	74	42.25	27.5	17.54	31.09	290	19	P	H
		2487.84	45.5	-8.5	54	31.56	27.52	17.52	31.1	290	19	A	H
													H
													H
	*	2462	101.27	-	-	87.32	27.58	17.48	31.11	100	138	P	V
	*	2462	97.76	-	-	83.81	27.58	17.48	31.11	100	138	A	V
		2493.2	55.8	-18.2	74	41.85	27.51	17.53	31.09	100	138	P	V
		2487.72	45.06	-8.94	54	31.12	27.52	17.52	31.1	100	138	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	55.39	-18.61	74	72.56	31.25	10.67	59.09	100	16	P	H
		4824	53.5	-0.5	54	70.67	31.25	10.67	59.09	100	16	A	H
													H
													H
		4824	55.11	-18.89	74	72.28	31.25	10.67	59.09	100	354	P	V
		4824	53.11	-0.89	54	70.28	31.25	10.67	59.09	100	354	A	V
													V
													V
802.11b CH 06 2437MHz		4874	54.62	-19.38	74	71.77	31.25	10.72	59.12	100	18	P	H
		4874	52.74	-1.26	54	69.89	31.25	10.72	59.12	100	18	A	H
		7311	56.88	-17.12	74	66.36	36.52	12.56	58.56	181	353	P	H
		7311	51.61	-2.39	54	61.09	36.52	12.56	58.56	181	353	A	H
		4874	53.13	-20.87	74	70.28	31.25	10.72	59.12	100	353	P	V
		4874	51.4	-2.6	54	68.55	31.25	10.72	59.12	100	353	A	V
		7311	52.64	-21.36	74	62.12	36.52	12.56	58.56	190	356	P	V
		7311	46.82	-7.18	54	56.3	36.52	12.56	58.56	190	356	A	V
802.11b CH 11 2462MHz		4924	54.25	-19.75	74	71.29	31.34	10.77	59.15	100	19	P	H
		4924	52.45	-1.55	54	69.49	31.34	10.77	59.15	100	19	A	H
		7386	56.91	-17.09	74	66.24	36.46	12.67	58.46	198	34	P	H
		7386	52.12	-1.88	54	61.45	36.46	12.67	58.46	198	34	A	H
		4924	52.56	-21.44	74	69.6	31.34	10.77	59.15	100	352	P	V
		4924	50.51	-3.49	54	67.55	31.34	10.77	59.15	100	352	A	V
		7386	53.67	-20.33	74	63	36.46	12.67	58.46	195	358	P	V
		7386	48.1	-5.9	54	57.43	36.46	12.67	58.46	195	358	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		2334.78	56.55	-17.45	74	42.45	28.03	17.24	31.17	125	348	P	H
		2332.05	45.68	-8.32	54	31.58	28.04	17.23	31.17	125	348	A	H
	*	2412	101.97	-	-	88.03	27.68	17.39	31.13	125	348	P	H
	*	2412	94.16	-	-	80.22	27.68	17.39	31.13	125	348	A	H
													H
													H
		2334.36	56.65	-17.35	74	42.55	28.03	17.24	31.17	382	77	P	V
		2332.155	45.14	-8.86	54	31.04	28.04	17.23	31.17	382	77	A	V
	*	2412	99.6	-	-	85.66	27.68	17.39	31.13	382	77	P	V
	*	2412	91.86	-	-	77.92	27.68	17.39	31.13	382	77	A	V
													V
													V
802.11g CH 06 2437MHz		2356.56	56.87	-17.13	74	42.79	27.96	17.28	31.16	199	350	P	H
		2357.04	46.9	-7.1	54	32.82	27.96	17.28	31.16	199	350	A	H
	*	2437	101.9	-	-	87.96	27.63	17.43	31.12	199	350	P	H
	*	2437	93.79	-	-	79.85	27.63	17.43	31.12	199	350	A	H
		2489.11	55.09	-18.91	74	41.14	27.52	17.53	31.1	199	350	P	H
		2484.25	44.95	-9.05	54	31	27.53	17.52	31.1	199	350	A	H
		2350.64	55.72	-18.28	74	41.61	28	17.27	31.16	394	75	P	V
		2357.04	46.1	-7.9	54	32.02	27.96	17.28	31.16	394	75	A	V
	*	2437	99.24	-	-	85.3	27.63	17.43	31.12	394	75	P	V
	*	2437	91.44	-	-	77.5	27.63	17.43	31.12	394	75	A	V
		2491.09	56	-18	74	42.04	27.52	17.53	31.09	394	75	P	V
		2485.33	44.86	-9.14	54	30.91	27.53	17.52	31.1	394	75	A	V



802.11g CH 11 2462MHz	*	2462	102.97	-	-	89.02	27.58	17.48	31.11	100	347	P	H
	*	2462	94.65	-	-	80.7	27.58	17.48	31.11	100	347	A	H
		2484.8	56.25	-17.75	74	42.3	27.53	17.52	31.1	100	347	P	H
		2483.56	45.85	-8.15	54	31.9	27.53	17.52	31.1	100	347	A	H
													H
													H
	*	2462	99.16	-	-	85.21	27.58	17.48	31.11	237	345	P	V
	*	2462	91.39	-	-	77.44	27.58	17.48	31.11	237	345	A	V
		2485.4	56.02	-17.98	74	42.07	27.53	17.52	31.1	237	345	P	V
		2483.52	45.31	-8.69	54	31.36	27.53	17.52	31.1	237	345	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	46	-28	74	63.17	31.25	10.67	59.09	100	0	P	H
													H
													H
													H
		4824	48.49	-25.51	74	65.66	31.25	10.67	59.09	100	0	P	V
													V
													V
													V
802.11g CH 06 2437MHz		4874	46.15	-27.85	74	63.3	31.25	10.72	59.12	100	0	P	H
		7311	53.36	-20.64	74	62.84	36.52	12.56	58.56	198	33	P	H
		7311	41.88	-12.12	54	51.36	36.52	12.56	58.56	198	33	A	H
													H
		4874	46.39	-27.61	74	63.54	31.25	10.72	59.12	100	0	P	V
		7311	47.59	-26.41	74	57.07	36.52	12.56	58.56	100	0	P	V
													V
													V
802.11g CH 11 2462MHz		4924	46.54	-27.46	74	63.58	31.34	10.77	59.15	100	0	P	H
		7386	54.97	-19.03	74	64.3	36.46	12.67	58.46	194	35	P	H
		7386	42.6	-11.4	54	51.93	36.46	12.67	58.46	194	35	A	H
													H
		4924	48.16	-25.84	74	65.2	31.34	10.77	59.15	100	0	P	V
		7386	49.62	-24.38	74	58.95	36.46	12.67	58.46	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz

WIFI 802.11n HT20 (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		2390	57.46	-16.54	74	43.5	27.76	17.35	31.15	336	26	P	H
		2332.05	46.65	-7.35	54	32.55	28.04	17.23	31.17	336	26	A	H
	*	2412	101.62	-	-	87.68	27.68	17.39	31.13	336	26	P	H
	*	2412	93.9	-	-	79.96	27.68	17.39	31.13	336	26	A	H
													H
													H
		2338.035	55.75	-18.25	74	41.66	28.02	17.24	31.17	100	331	P	V
		2331.945	45.97	-8.03	54	31.87	28.04	17.23	31.17	100	331	A	V
	*	2412	98.92	-	-	84.98	27.68	17.39	31.13	100	331	P	V
	*	2412	91.17	-	-	77.23	27.68	17.39	31.13	100	331	A	V
													V
													V
802.11n HT20 CH 06 2437MHz		2355.28	55.61	-18.39	74	41.52	27.97	17.28	31.16	108	358	P	H
		2356.88	46.14	-7.86	54	32.06	27.96	17.28	31.16	108	358	A	H
	*	2437	99.53	-	-	85.59	27.63	17.43	31.12	108	358	P	H
	*	2437	91.54	-	-	77.6	27.63	17.43	31.12	108	358	A	H
		2496.94	55.71	-18.29	74	41.75	27.51	17.54	31.09	108	358	P	H
		2484.61	44.89	-9.11	54	30.94	27.53	17.52	31.1	108	358	A	H
		2372.72	55.82	-18.18	74	41.8	27.86	17.31	31.15	389	259	P	V
		2357.04	45.4	-8.6	54	31.32	27.96	17.28	31.16	389	259	A	V
	*	2437	97.89	-	-	83.95	27.63	17.43	31.12	389	259	P	V
	*	2437	90.04	-	-	76.1	27.63	17.43	31.12	389	259	A	V
		2486.41	55.56	-18.44	74	41.61	27.53	17.52	31.1	389	259	P	V
		2485.42	44.81	-9.19	54	30.86	27.53	17.52	31.1	389	259	A	V



802.11n HT20 CH 11 2462MHz	*	2462	98.86	-	-	84.91	27.58	17.48	31.11	100	341	P	H
	*	2462	91.04	-	-	77.09	27.58	17.48	31.11	100	341	A	H
		2491.52	55.73	-18.27	74	41.77	27.52	17.53	31.09	100	341	P	H
		2483.56	44.98	-9.02	54	31.03	27.53	17.52	31.1	100	341	A	H
													H
													H
	*	2462	97.55	-	-	83.6	27.58	17.48	31.11	400	79	P	V
	*	2462	89.74	-	-	75.79	27.58	17.48	31.11	400	79	A	V
		2496.16	56.32	-17.68	74	42.36	27.51	17.54	31.09	400	79	P	V
		2483.52	45.07	-8.93	54	31.12	27.53	17.52	31.1	400	79	A	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



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

WIFI Ant. 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		4824	46.47	-27.53	74	63.64	31.25	10.67	59.09	100	0	P	H
													H
													H
													H
		4824	49.05	-24.95	74	66.22	31.25	10.67	59.09	100	0	P	V
													V
													V
													V
802.11n HT20 CH 06 2437MHz		4874	46.75	-27.25	74	63.9	31.25	10.72	59.12	100	0	P	H
		7311	55.31	-18.69	74	64.79	36.52	12.56	58.56	187	353	P	H
		7311	41.3	-12.7	54	50.78	36.52	12.56	58.56	187	353	A	H
													H
		4874	46.85	-27.15	74	64	31.25	10.72	59.12	100	0	P	V
		7311	47.07	-26.93	74	56.55	36.52	12.56	58.56	100	0	P	V
													V
													V
802.11n HT20 CH 11 2462MHz		4924	46.18	-27.82	74	63.22	31.34	10.77	59.15	100	0	P	H
		7386	54.85	-19.15	74	64.18	36.46	12.67	58.46	173	352	P	H
		7386	40.79	-13.21	54	50.12	36.46	12.67	58.46	173	352	A	H
													H
		4924	46.99	-27.01	74	64.03	31.34	10.77	59.15	100	0	P	V
		7386	48.31	-25.69	74	57.64	36.46	12.67	58.46	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz

WIFI 802.11n 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		2344.88	57.22	-16.78	74	43.12	28.01	17.26	31.17	260	36	P	H
		2342	45.66	-8.34	54	31.56	28.02	17.25	31.17	260	36	A	H
	*	2422	95.99	-	-	82.05	27.66	17.41	31.13	260	36	P	H
	*	2422	88.29	-	-	74.35	27.66	17.41	31.13	260	36	A	H
		2490.28	55.99	-18.01	74	42.03	27.52	17.53	31.09	260	36	P	H
		2486.05	44.89	-9.11	54	30.94	27.53	17.52	31.1	260	36	A	H
		2327.92	55.69	-18.31	74	41.61	28.04	17.22	31.18	100	141	P	V
		2389.84	45.38	-8.62	54	31.42	27.76	17.35	31.15	100	141	A	V
	*	2422	94.44	-	-	80.5	27.66	17.41	31.13	100	141	P	V
	*	2422	86.73	-	-	72.79	27.66	17.41	31.13	100	141	A	V
		2492.89	55.65	-18.35	74	41.7	27.51	17.53	31.09	100	141	P	V
		2496.67	44.75	-9.25	54	30.79	27.51	17.54	31.09	100	141	A	V
802.11n HT40 CH 06 2437MHz		2310.48	56.15	-17.85	74	42.06	28.08	17.19	31.18	261	35	P	H
		2351.6	45.1	-8.9	54	31	27.99	17.27	31.16	261	35	A	H
	*	2437	96.18	-	-	82.24	27.63	17.43	31.12	261	35	P	H
	*	2437	88.6	-	-	74.66	27.63	17.43	31.12	261	35	A	H
		2488.39	56.52	-17.48	74	42.57	27.52	17.53	31.1	261	35	P	H
		2483.62	44.78	-9.22	54	30.83	27.53	17.52	31.1	261	35	A	H
		2349.52	56.52	-17.48	74	42.42	28	17.27	31.17	100	228	P	V
		2357.04	44.88	-9.12	54	30.8	27.96	17.28	31.16	100	228	A	V
	*	2437	93.8	-	-	79.86	27.63	17.43	31.12	100	228	P	V
	*	2437	86.06	-	-	72.12	27.63	17.43	31.12	100	228	A	V
		2491	55.04	-18.96	74	41.08	27.52	17.53	31.09	100	228	P	V
		2485.87	44.69	-9.31	54	30.74	27.53	17.52	31.1	100	228	A	V



802.11n HT40 CH 09 2452MHz		2374.64	57.17	-16.83	74	43.15	27.85	17.32	31.15	254	352	P	H
		2372.08	45.41	-8.59	54	31.38	27.87	17.31	31.15	254	352	A	H
	*	2452	96.34	-	-	82.39	27.6	17.46	31.11	254	352	P	H
	*	2452	88.58	-	-	74.63	27.6	17.46	31.11	254	352	A	H
		2492.17	57.03	-16.97	74	43.07	27.52	17.53	31.09	254	352	P	H
		2483.71	45.17	-8.83	54	31.22	27.53	17.52	31.1	254	352	A	H
		2317.84	56.28	-17.72	74	42.2	28.06	17.2	31.18	100	138	P	V
		2371.92	45.1	-8.9	54	31.07	27.87	17.31	31.15	100	138	A	V
	*	2452	94.13	-	-	80.18	27.6	17.46	31.11	100	138	P	V
	*	2452	86.34	-	-	72.39	27.6	17.46	31.11	100	138	A	V
		2485.24	55.42	-18.58	74	41.47	27.53	17.52	31.1	100	138	P	V
		2483.53	44.82	-9.18	54	30.87	27.53	17.52	31.1	100	138	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 HT40 (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)
802.11n HT40 CH 03 2422MHz		4844	46.02	-27.98	74	63.15	31.29	10.69	59.11	100	0	P	H
		7266	48.61	-25.39	74	58.26	36.5	12.48	58.63	100	0	P	H
													H
													H
		4844	46.51	-27.49	74	63.64	31.29	10.69	59.11	100	0	P	V
		7266	46.77	-27.23	74	56.42	36.5	12.48	58.63	100	0	P	V
													V
													V
802.11n HT40 CH 06 2437MHz		4874	45.97	-28.03	74	63.12	31.25	10.72	59.12	100	0	P	H
		7311	48.15	-25.85	74	57.63	36.52	12.56	58.56	100	0	P	H
													H
													H
		4874	46.05	-27.95	74	63.2	31.25	10.72	59.12	100	0	P	V
		7311	46.79	-27.21	74	56.27	36.52	12.56	58.56	100	0	P	V
													V
													V
802.11n HT40 CH 09 2452MHz		4904	45.49	-28.51	74	62.66	31.22	10.75	59.14	100	0	P	H
		7356	46.98	-27.02	74	56.28	36.58	12.62	58.5	100	0	P	H
													H
													H
		4904	46.59	-27.41	74	63.76	31.22	10.75	59.14	100	0	P	V
		7356	46.11	-27.89	74	55.41	36.58	12.62	58.5	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

**Emission above 1GHz****2.4GHz WIFI 802.11b**

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)
2.4GHz 802.11b		19890	39.09	-34.91	74	43.84	37.78	11.34	53.87	150	0	P	H
													H
													H
													H
		20954	40.38	-33.62	74	43.38	38.36	12.05	53.41	150	0	P	V
													V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against limit line.												



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

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)
2.4GHz 802.11b LF		94.02	31.89	-11.61	43.5	47.48	15.44	1.27	32.3	-	-	P	H
		252.13	32.38	-13.62	46	44.11	18.47	2.21	32.41	-	-	P	H
		401.51	32.67	-13.33	46	40.23	21.89	2.7	32.15	-	-	P	H
		717.73	36.7	-9.3	46	38.62	26.78	3.72	32.42	-	-	P	H
		741.98	34.99	-11.01	46	36.03	27.62	3.8	32.46	-	-	P	H
		804.06	43.39	-2.61	46	43.87	27.54	3.94	31.96	100	108	Q	H
													H
													H
													H
													H
													H
													H
		95.96	31.95	-11.55	43.5	47.32	15.64	1.28	32.29	-	-	P	V
		252.13	26.83	-19.17	46	38.56	18.47	2.21	32.41	-	-	P	V
		600.36	33.47	-12.53	46	37.32	25.44	3.35	32.64	-	-	P	V
		716.76	39.56	-6.44	46	41.53	26.73	3.72	32.42	100	0	P	V
		729.37	36.6	-9.4	46	38.03	27.26	3.75	32.44	-	-	P	V
		804.06	38.1	-7.9	46	38.58	27.54	3.94	31.96	-	-	P	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	P eak or A verage
H/V	H orizontal or V ertical

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

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
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”.



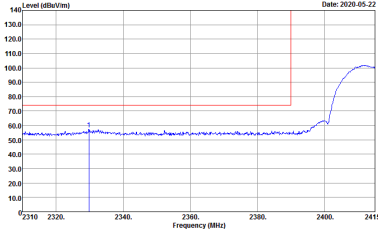
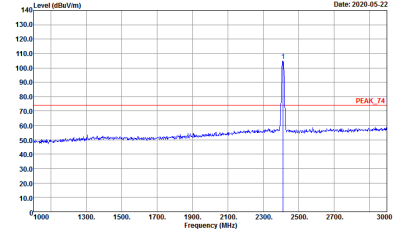
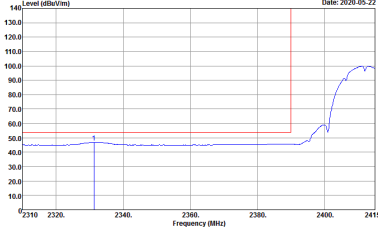
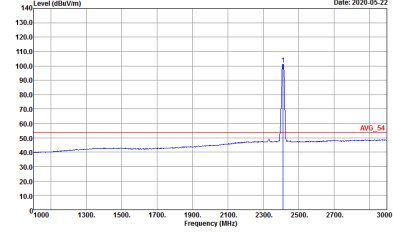
Appendix D. Radiated Spurious Emission Plots

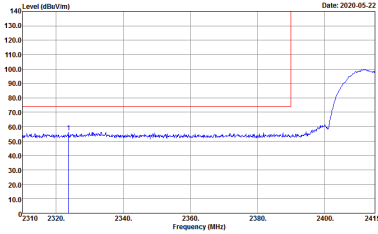
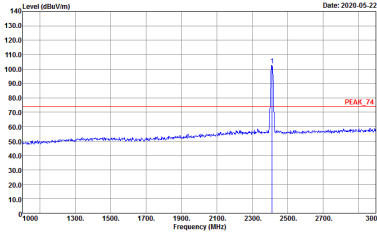
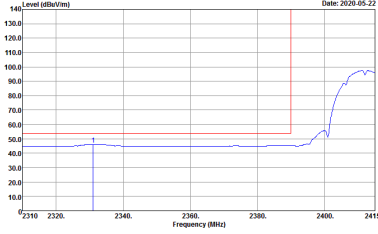
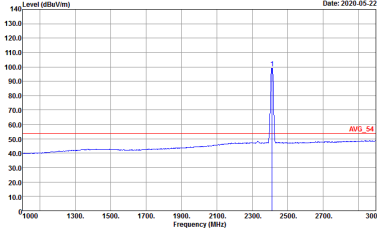
Test Engineer :	Leo Lee, Mancy Chou, and Bigshow Wang	Temperature :	22.8~23.1°C
		Relative Humidity :	55~60%

Note symbol

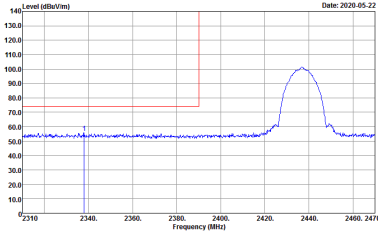
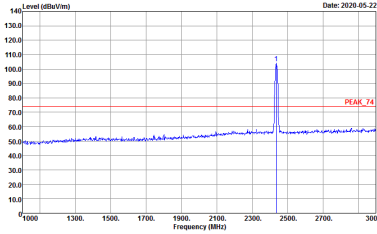
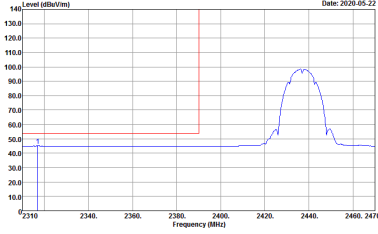
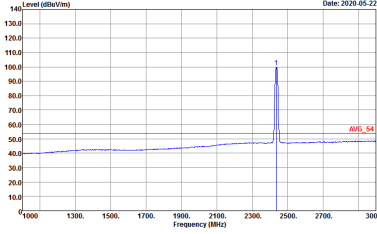
-L	Low channel location
-R	High channel location

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

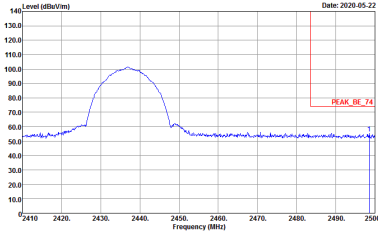
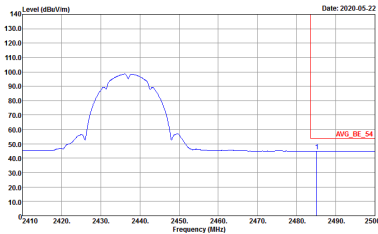
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH01 2412MHz	
1	Horizontal	Fundamental
Peak	 <p>Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_15_1620 HORIZONTAL Detector : Peak Project : 022715</p>	 <p>Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 HORIZONTAL Detector : Peak Project : 022715</p>
	 <p>Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_15_1620 HORIZONTAL Detector : Peak Project : 022715</p>	 <p>Site : 03CH15-HY Condition : AVG_54 3m 91200_15_1620 HORIZONTAL Detector : Peak Project : 022715</p>
Avg.		

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH01 2412MHz	
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 : 022715</p>	 <p>Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 022715</p>
Avg.	 <p>Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_15_1620 VERTICAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 022715</p>	 <p>Site : 03CH15-HY Condition : AVG_54 3m 91200_15_1620 VERTICAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 022715</p>

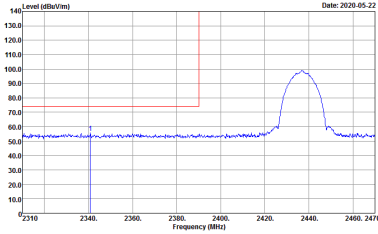
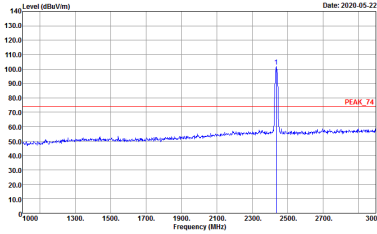
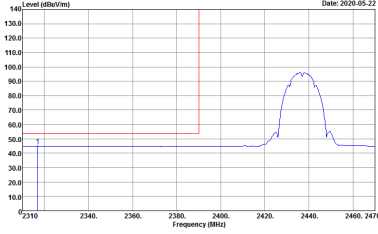
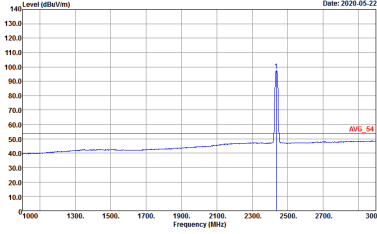


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH06 2437MHz - L	
1	Horizontal	Fundamental
Peak	<div><p>Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_15_1620 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 022715</p></div>	<div><p>Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 022715</p></div>
Avg.	<div><p>Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_15_1620 HORIZONTAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 022715</p></div>	<div><p>Site : 03CH15-HY Condition : AVG_54 3m 91200_15_1620 HORIZONTAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 022715</p></div>

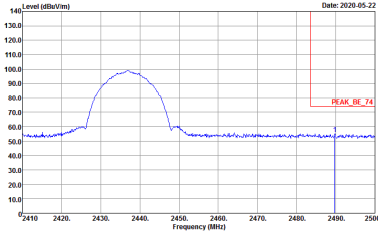
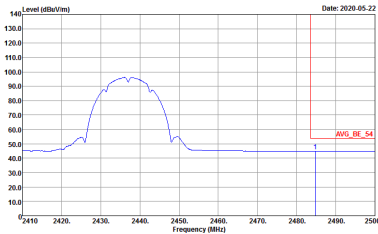


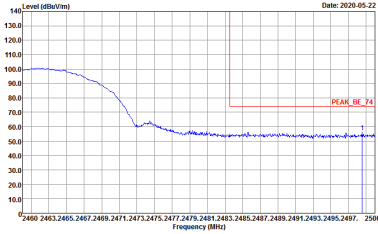
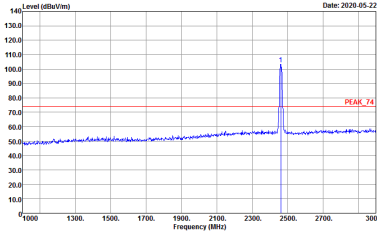
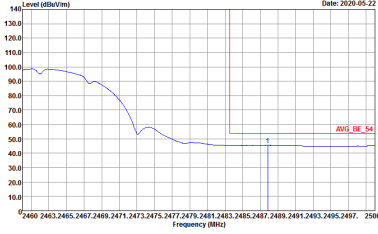
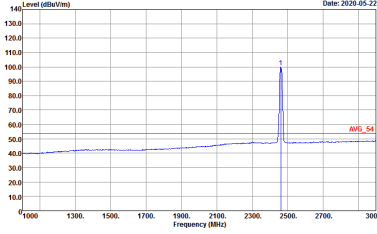
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH06 2437MHz - R	
1	Horizontal	Fundamental
Peak	<div><p>Site : 03CH15-HV Condition : PEAK_BE_74 3m 91200_15_1620 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 022715</p></div>	Left blank
Avg.	<div><p>Site : 03CH15-HV Condition : AVG_BE_54 3m 91200_15_1620 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 022715</p></div>	Left blank

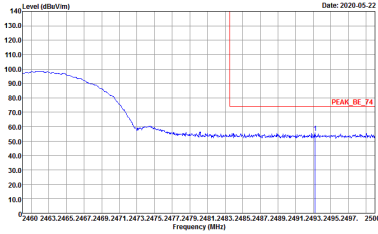
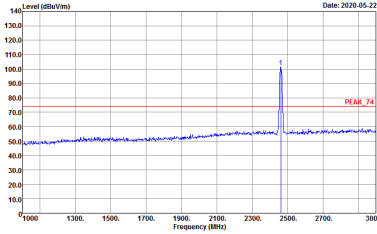
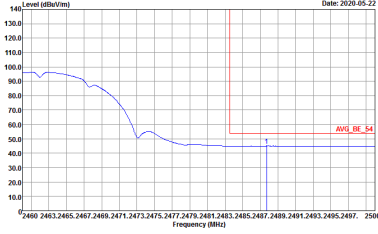
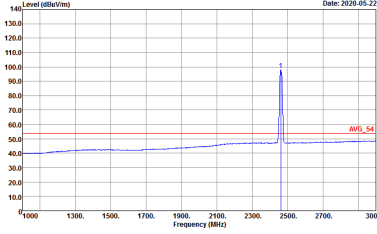


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH06 2437MHz - L	
1	Vertical	Fundamental
Peak	<div><p>Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_15_1620 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 022715</p></div>	<div><p>Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 022715</p></div>
Avg.	<div><p>Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_15_1620 VERTICAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 022715</p></div>	<div><p>Site : 03CH15-HY Condition : AVG_54 3m 91200_15_1620 VERTICAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 022715</p></div>



WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH06 2437MHz - R	
1	Vertical	Fundamental
Peak	<div><p>Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_15_1620 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 022715</p></div>	Left blank
Avg.	<div><p>Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_15_1620 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 022715</p></div>	Left blank

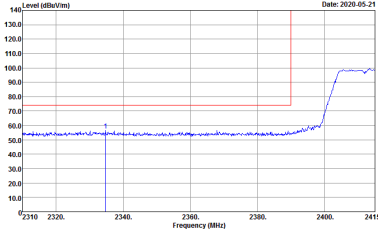
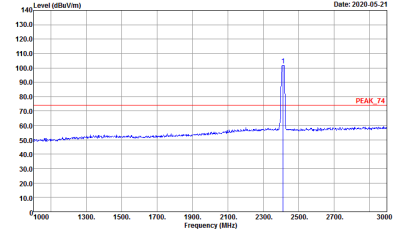
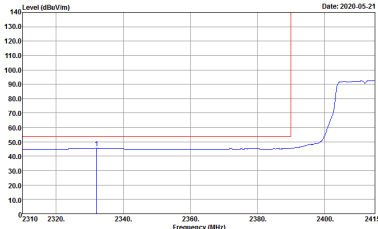
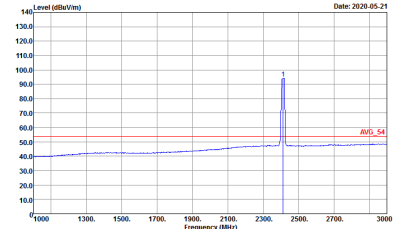
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH11 2462MHz	
1	Horizontal	Fundamental
Peak	 <p>Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_15_1620 HORIZONTAL Detector : Peak Project : 022715</p>	 <p>Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 HORIZONTAL Detector : Peak Project : 022715</p>
Avg.	 <p>Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_15_1620 HORIZONTAL Detector : Peak Project : 022715</p>	 <p>Site : 03CH15-HY Condition : AVG_54 3m 91200_15_1620 HORIZONTAL Detector : Peak Project : 022715</p>

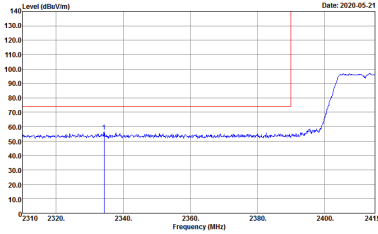
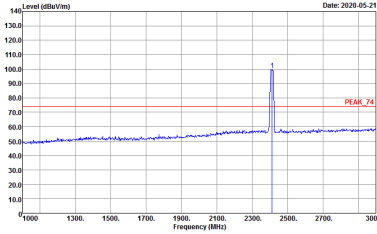
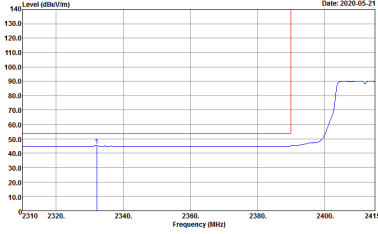
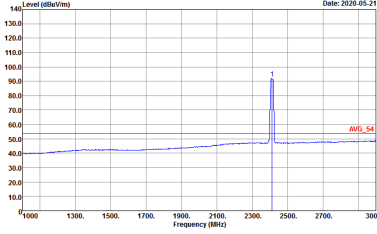
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH11 2462MHz	
1	Vertical	Fundamental
Peak	 <p> Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_15_1620 VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak : 022715 </p>	 <p> Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak : 022715 </p>
Avg.	 <p> Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_15_1620 VERTICAL Detector : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Project : Peak : 022715 </p>	 <p> Site : 03CH15-HY Condition : AVG_54 3m 91200_15_1620 VERTICAL Detector : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Project : Peak : 022715 </p>

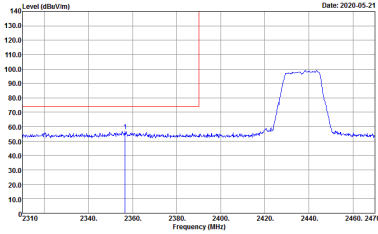
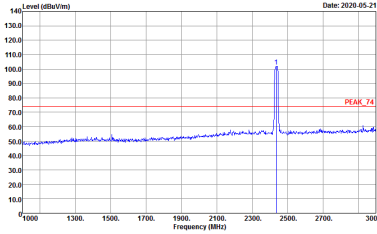
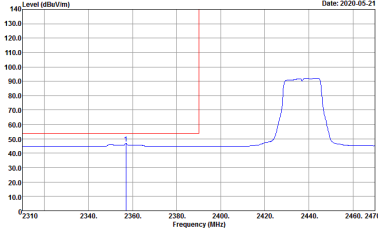
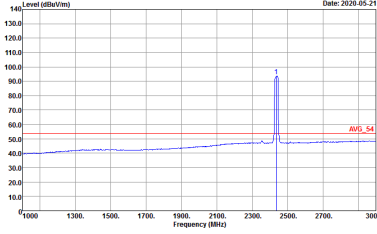


2.4GHz 2400~2483.5MHz

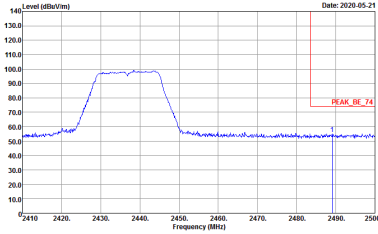
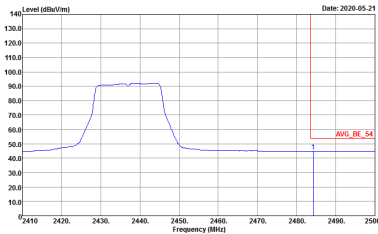
WIFI 802.11g (Band Edge @ 3m)

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 : 022715</p>	 <p>Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 HORIZONTAL Detector : Peak Project : 022715</p>
Avg.	 <p>Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_15_1620 HORIZONTAL Detector : Peak Project : 022715</p>	 <p>Site : 03CH15-HY Condition : AVG_54 3m 91200_15_1620 HORIZONTAL Detector : Peak Project : 022715</p>

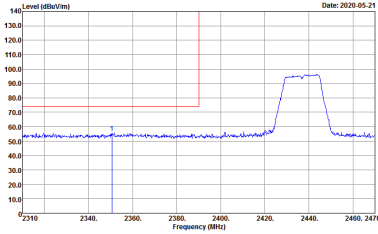
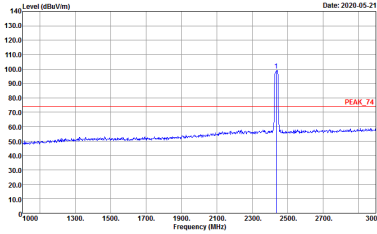
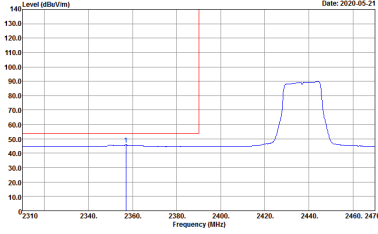
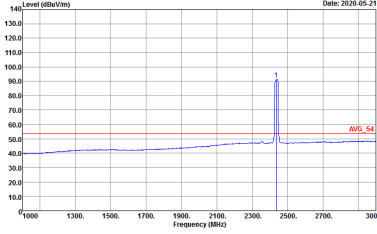
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH01 2412MHz	
1	Vertical	Fundamental
Peak	 <p>Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_15_1620 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 022715</p>	 <p>Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 022715</p>
Avg.	 <p>Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_15_1620 VERTICAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 022715</p>	 <p>Site : 03CH15-HY Condition : AVG_54 3m 91200_15_1620 VERTICAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 022715</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_BE_74 3m 91200_15_1620 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 022715</p>	 <p>Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 022715</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 : 022715</p>	 <p>Site : 03CH15-HY Condition : AVG_54 3m 91200_15_1620 HORIZONTAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 022715</p>

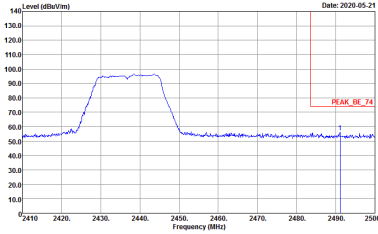
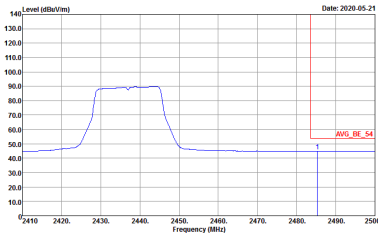


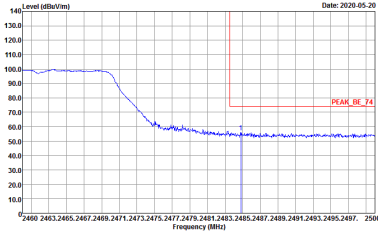
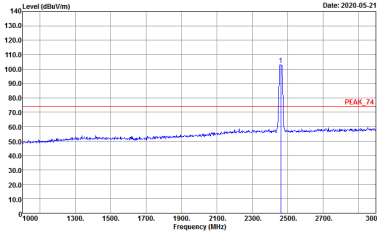
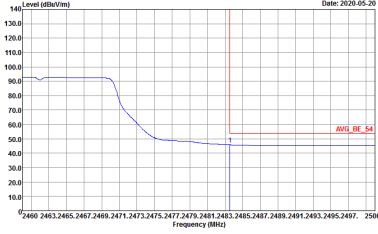
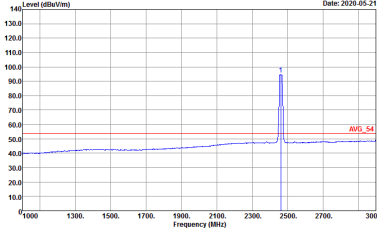
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH06 2437MHz - R	
1	Horizontal	Fundamental
Peak	<div><p>Site : 03CH15-HV Condition : PEAK_BE_74 3m 91200_15_1620 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 022715</p></div>	Left blank
Avg.	<div><p>Site : 03CH15-HV Condition : AVG_BE_54 3m 91200_15_1620 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 022715</p></div>	Left blank



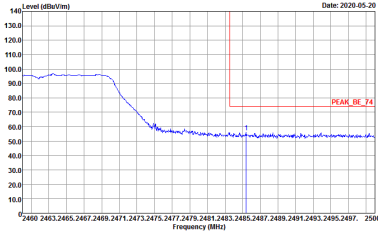
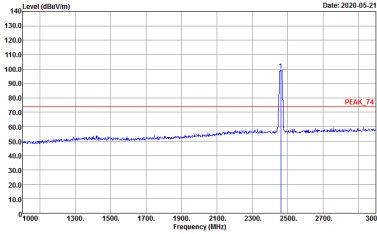
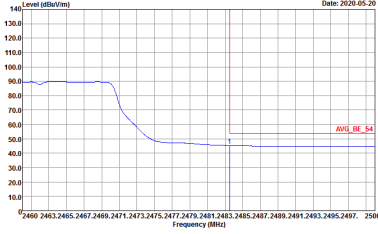
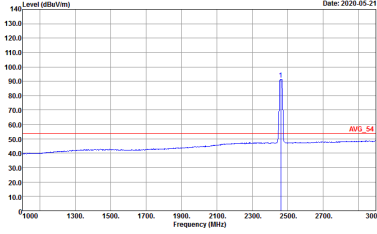
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH06 2437MHz - L	
1	Vertical	Fundamental
Peak	<div><p>Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_15_1620 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 022715</p></div>	<div><p>Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 022715</p></div>
Avg.	<div><p>Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_15_1620 VERTICAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 022715</p></div>	<div><p>Site : 03CH15-HY Condition : AVG_54 3m 91200_15_1620 VERTICAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 022715</p></div>



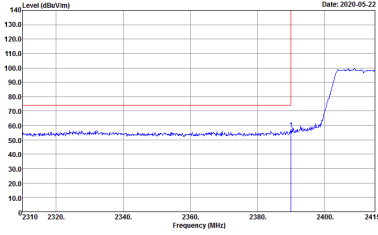
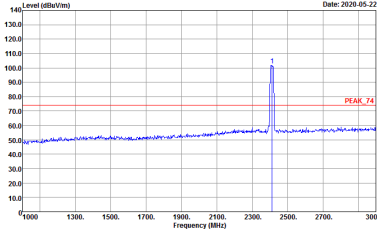
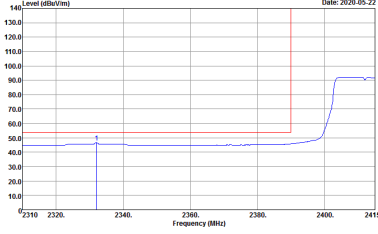
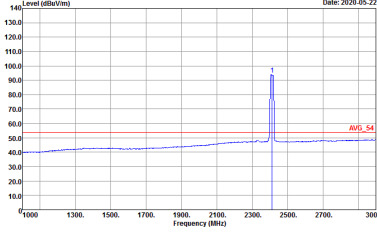
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH06 2437MHz - R	
1	Vertical	Fundamental
Peak	<div><p>Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_15_1620 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 022715</p></div>	Left Blank
Avg.	<div><p>Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_15_1620 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 022715</p></div>	Left Blank

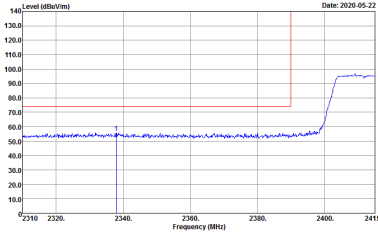
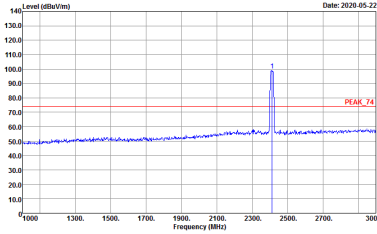
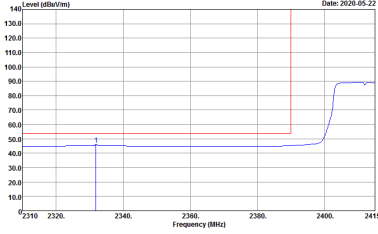
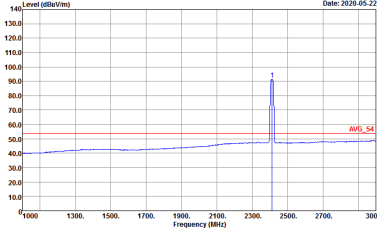
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH11 2462MHz	
1	Horizontal	Fundamental
Peak	 <p>Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_15_1620 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 022715</p>	 <p>Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 022715</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 : 022715</p>	 <p>Site : 03CH15-HY Condition : AVG_54 3m 91200_15_1620 HORIZONTAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 022715</p>



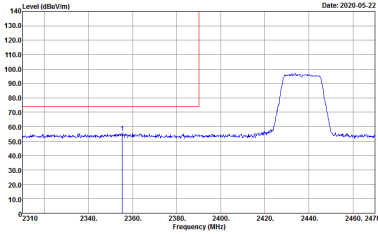
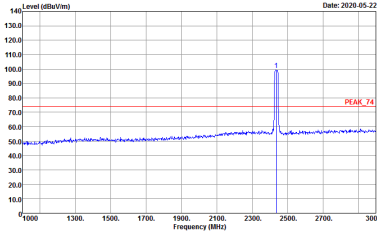
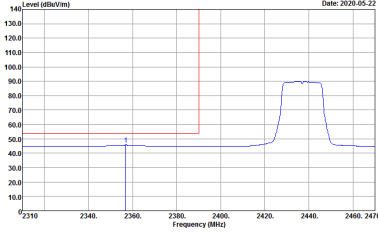
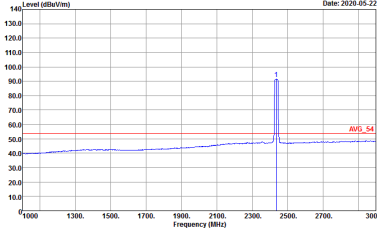
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH11 2462MHz	
1	Vertical	Fundamental
Peak	<div><p>Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_15_1620 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 022715</p></div>	<div><p>Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 022715</p></div>
Avg.	<div><p>Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_15_1620 VERTICAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 022715</p></div>	<div><p>Site : 03CH15-HY Condition : AVG_54 3m 91200_15_1620 VERTICAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 022715</p></div>

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

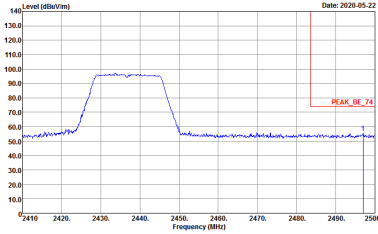
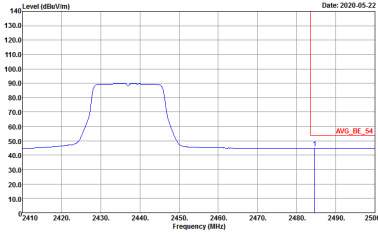
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH01 2412MHz	
1	Horizontal	Fundamental
Peak	 <p>Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_15_1620 HORIZONTAL Detector : Peak Project : 022715</p>	 <p>Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 HORIZONTAL Detector : Peak Project : 022715</p>
	 <p>Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_15_1620 HORIZONTAL Detector : Peak Project : 022715</p>	 <p>Site : 03CH15-HY Condition : AVG_54 3m 91200_15_1620 HORIZONTAL Detector : Peak Project : 022715</p>
Avg.		

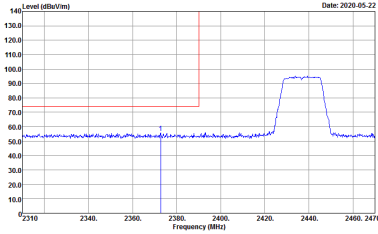
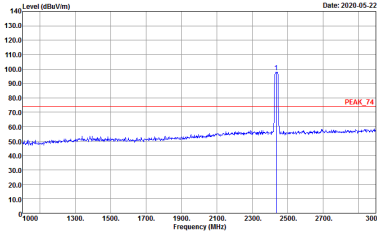
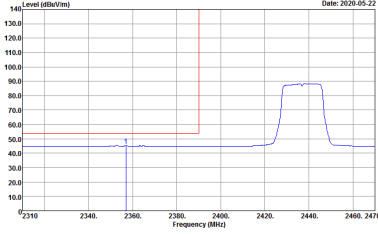
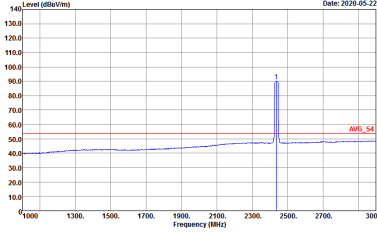
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH01 2412MHz	
1	Vertical	Fundamental
Peak	 <p>Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_15_1620 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 022715</p>	 <p>Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 022715</p>
Avg.	 <p>Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_15_1620 VERTICAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 022715</p>	 <p>Site : 03CH15-HY Condition : AVG_54 3m 91200_15_1620 VERTICAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 022715</p>



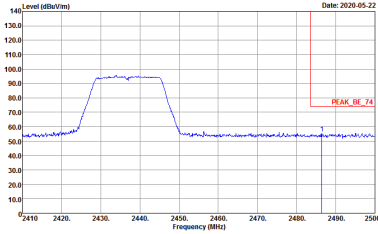
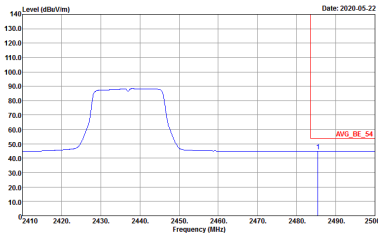
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH06 2437MHz - L	
1	Horizontal	Fundamental
Peak	<div><p>Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_15_1620 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 022715</p></div>	<div><p>Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 022715</p></div>
Avg.	<div><p>Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_15_1620 HORIZONTAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 022715</p></div>	<div><p>Site : 03CH15-HY Condition : AVG_54 3m 91200_15_1620 HORIZONTAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 022715</p></div>

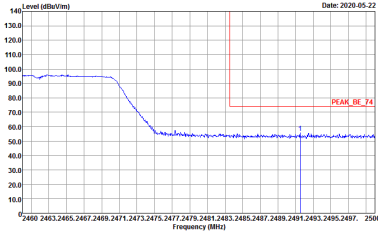
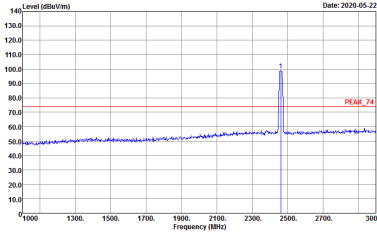
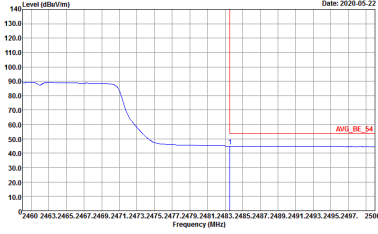
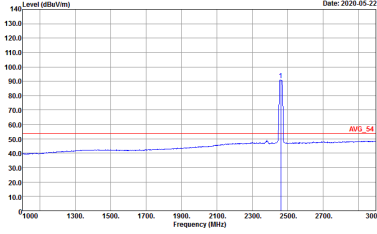


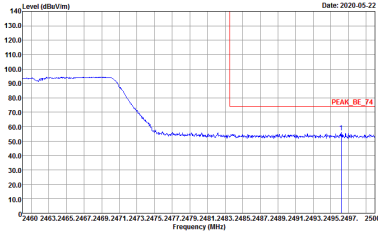
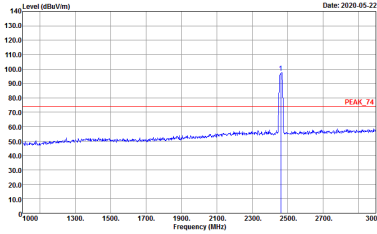
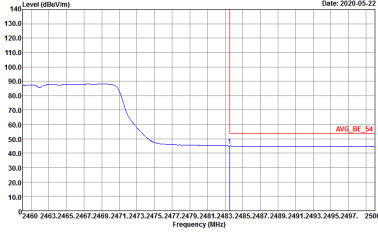
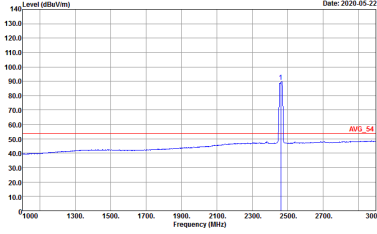
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH06 2437MHz - R	
1	Horizontal	Fundamental
Peak	<div><p>Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_15_1620 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 022715</p></div>	Left blank
Avg.	<div><p>Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_15_1620 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 022715</p></div>	Left blank

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_BE_74 3m 91200_15_1620 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 022715 </p>	 <p> Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 022715 </p>
Avg.	 <p> Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_15_1620 VERTICAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 022715 </p>	 <p> Site : 03CH15-HY Condition : AVG_54 3m 91200_15_1620 VERTICAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 022715 </p>

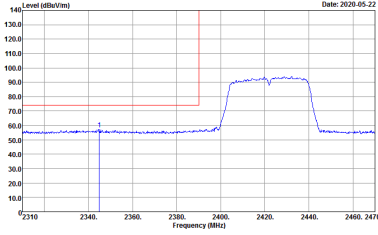
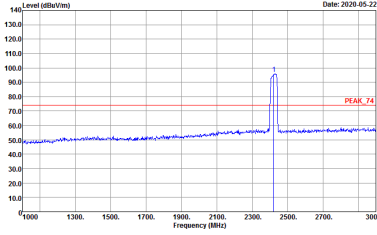
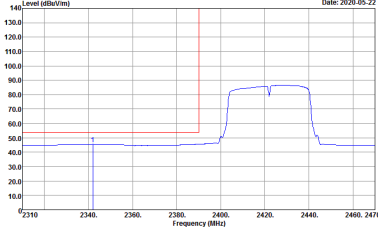
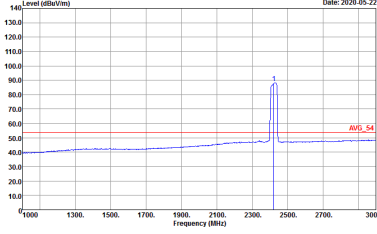


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH06 2437MHz - R	
1	Vertical	Fundamental
Peak	<div><p>Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_15_1620 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 022715</p></div>	Left Blank
Avg.	<div><p>Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_15_1620 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 022715</p></div>	Left Blank

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 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 : 022715</p>	 <p>Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 022715</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 : 022715</p>	 <p>Site : 03CH15-HY Condition : AVG_54 3m 91200_15_1620 HORIZONTAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 022715</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 : 022715</p>	 <p>Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 022715</p>
Avg.	 <p>Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_15_1620 VERTICAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 022715</p>	 <p>Site : 03CH15-HY Condition : AVG_54 3m 91200_15_1620 VERTICAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 022715</p>

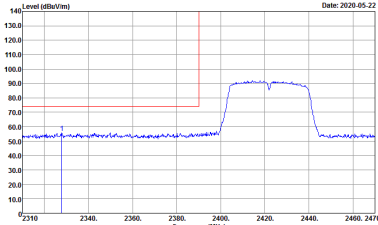
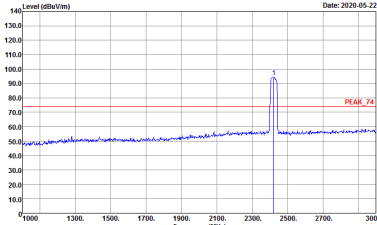
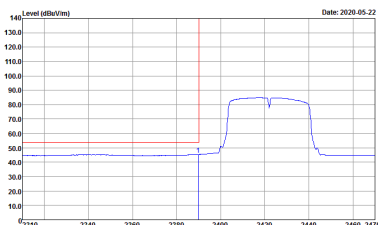
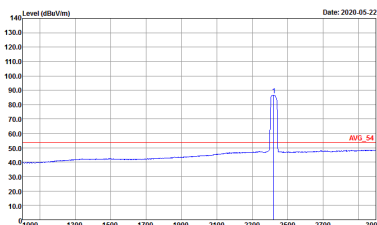
2.4GHz 2400~2483.5MHz
WIFI 802.11n HT40 (Band Edge @ 3m)

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 : 022715</p>	 <p>Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 HORIZONTAL Detector : Peak Project : 022715</p>
	 <p>Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_15_1620 HORIZONTAL Detector : Peak Project : 022715</p>	 <p>Site : 03CH15-HY Condition : AVG_54 3m 91200_15_1620 HORIZONTAL Detector : Peak Project : 022715</p>
Avg.		

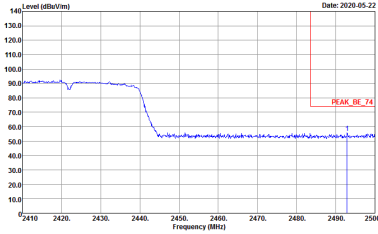
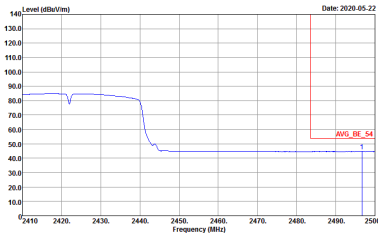


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH03 2422MHz - R	
1	Horizontal	Fundamental
Peak	<div><p>Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_15_1620 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 022715</p></div>	Left Blank
Avg.	<div><p>Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_15_1620 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 022715</p></div>	Left Blank

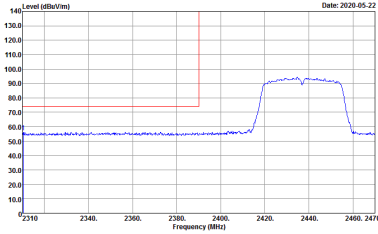
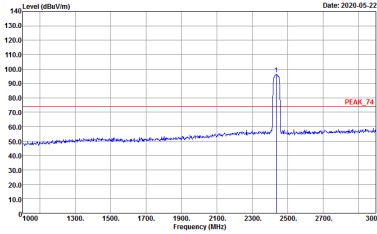
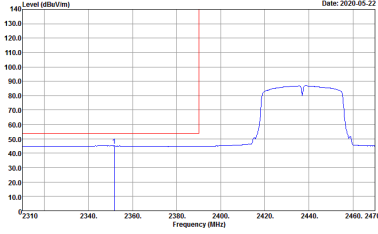
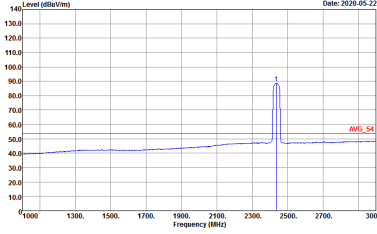


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH03 2422MHz - L	
1	Vertical	Fundamental
Peak	<div><p>Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_15_1620 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 022715</p></div>	<div><p>Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 022715</p></div>
Avg.	<div><p>Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_15_1620 VERTICAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 022715</p></div>	<div><p>Site : 03CH15-HY Condition : AVG_54 3m 91200_15_1620 VERTICAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 022715</p></div>

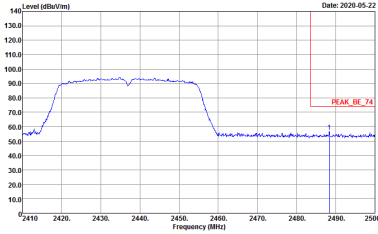
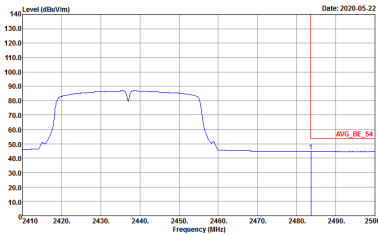


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH03 2422MHz - R	
1	Vertical	Fundamental
Peak	<div><p>Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_15_1620 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 022715</p></div>	Left blank
Avg.	<div><p>Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_15_1620 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 022715</p></div>	Left blank

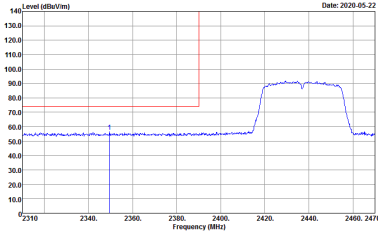
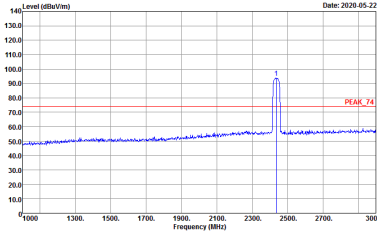
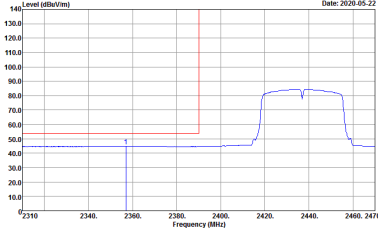
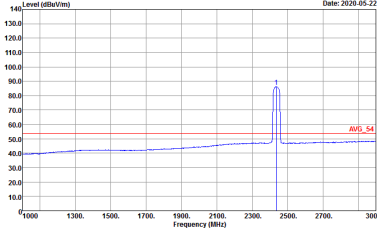


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH06 2437MHz - L	
1	Horizontal	Fundamental
Peak	<div><p>Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_15_1620 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 022715</p></div>	<div><p>Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 022715</p></div>
Avg.	<div><p>Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_15_1620 HORIZONTAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 022715</p></div>	<div><p>Site : 03CH15-HY Condition : AVG_54 3m 91200_15_1620 HORIZONTAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 022715</p></div>

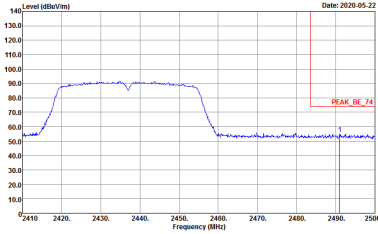
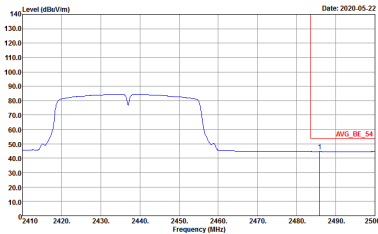


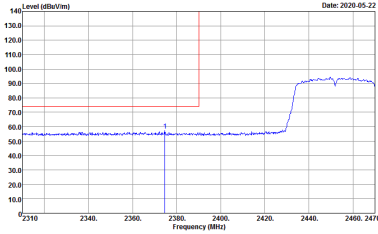
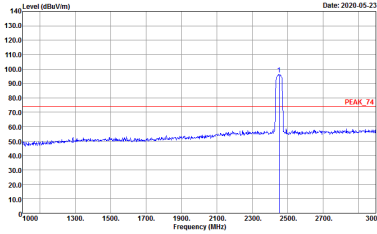
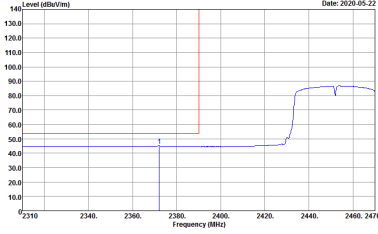
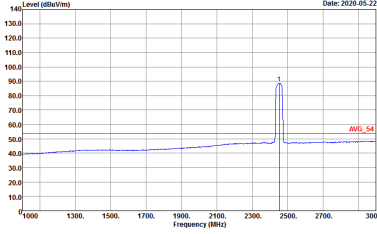
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH06 2437MHz - R	
1	Horizontal	Fundamental
Peak	<div><p>Site : 03CH15-HV Condition : PEAK_BE_74 3m 91200_15_1620 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 022715</p></div>	Left blank
Avg.	<div><p>Site : 03CH15-HV Condition : AVG_BE_54 3m 91200_15_1620 HORIZONTAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 022715</p></div>	Left blank



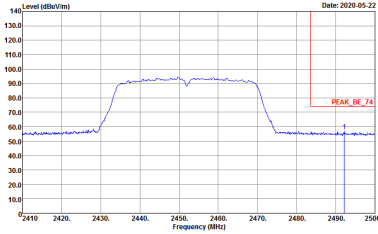
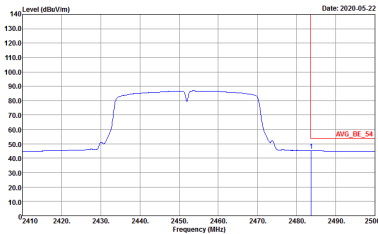
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH06 2437MHz - L	
1	Vertical	Fundamental
Peak	<div><p>Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_15_1620 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 022715</p></div>	<div><p>Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 022715</p></div>
Avg.	<div><p>Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_15_1620 VERTICAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 022715</p></div>	<div><p>Site : 03CH15-HY Condition : AVG_54 3m 91200_15_1620 VERTICAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 022715</p></div>



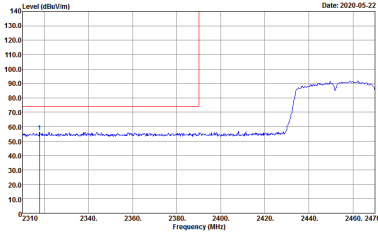
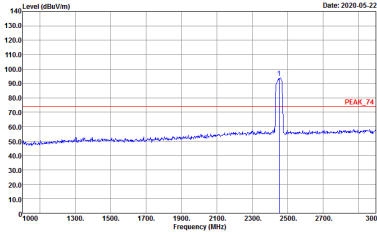
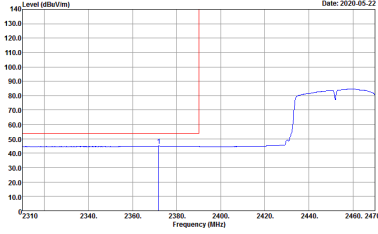
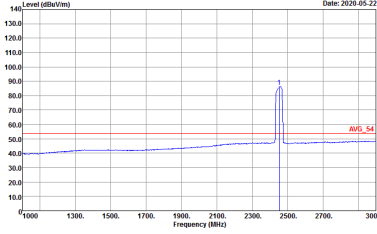
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH06 2437MHz - R	
1	Horizontal	Fundamental
Peak	<div><p>Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_15_1620 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 022715</p></div>	Left blank
Avg.	<div><p>Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_15_1620 VERTICAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 022715</p></div>	Left blank

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_BE_74 3m 91200_15_1620 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 022715</p>	 <p>Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 022715</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 : 022715</p>	 <p>Site : 03CH15-HY Condition : AVG_54 3m 91200_15_1620 HORIZONTAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 022715</p>

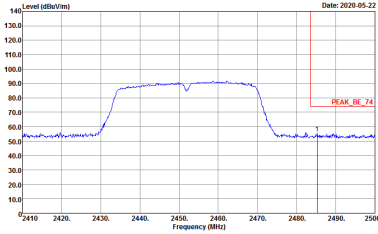
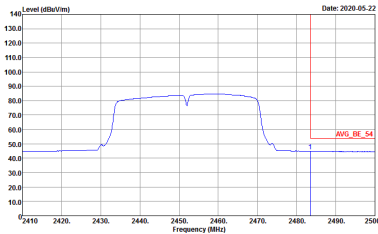


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH09 2452MHz - R	
1	Horizontal	Fundamental
Peak	<div><p>Site : 03CH15-HV Condition : PEAK_BE_74 3m 91200_15_1620 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 022715</p></div>	Left blank
Avg.	<div><p>Site : 03CH15-HV Condition : AVG_BE_54 3m 91200_15_1620 HORIZONTAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 022715</p></div>	Left blank

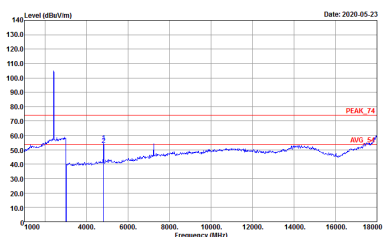
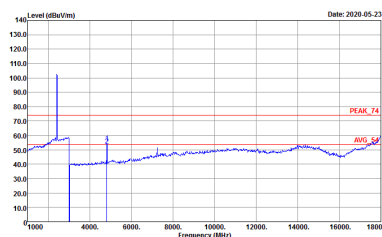


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH09 2452MHz - L	
1	Vertical	Fundamental
Peak	<div><p>Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_15_1620 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 022715</p></div>	<div><p>Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 022715</p></div>
Avg.	<div><p>Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_15_1620 VERTICAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 022715</p></div>	<div><p>Site : 03CH15-HY Condition : AVG_54 3m 91200_15_1620 VERTICAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 022715</p></div>

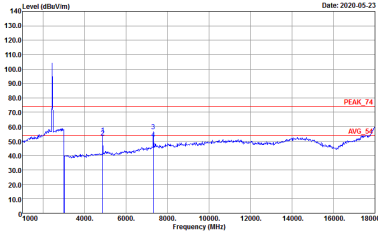
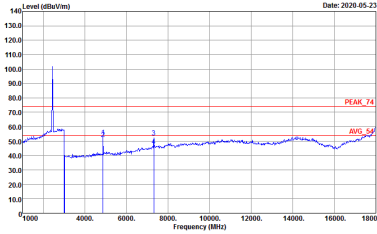


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH09 2452MHz - R	
1	Vertical	Fundamental
Peak	<div><p>Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_15_1620 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 022715</p></div>	Left blank
Avg.	<div><p>Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_15_1620 VERTICAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 022715</p></div>	Left blank

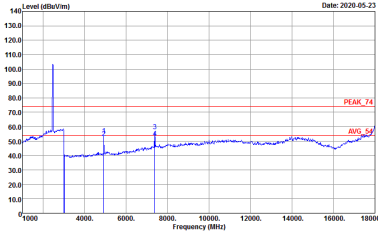
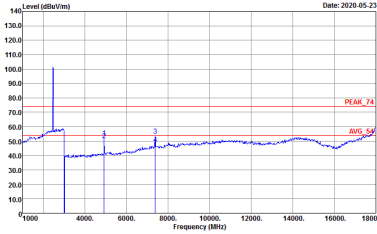
2.4GHz 2400~2483.5MHz
WIFI 802.11b (Harmonic @ 3m)

WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11b CH01 2412MHz	
1	Horizontal	Vertical
Peak Avg.	 <p> Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 HORIZONTAL Detector : Peak Project : 022715 </p>	 <p> Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 VERTICAL Detector : Peak Project : 022715 </p>



WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11b CH06 2437MHz	
1	Horizontal	Vertical
Peak Avg.	 <p>Site : 03CH15-4V Condition : PEAK_74 3m 91200_15_1620 HORIZONTAL Detector : Peak Project : 022715</p>	 <p>Site : 03CH15-4V Condition : PEAK_74 3m 91200_15_1620 VERTICAL Detector : Peak Project : 022715</p>

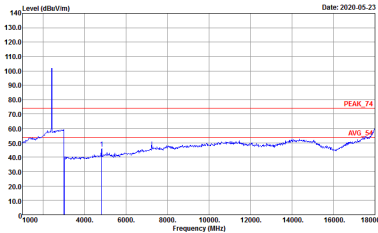
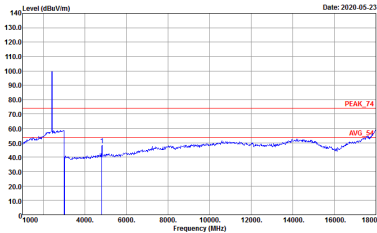


WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11b CH11 2462MHz	
1	Horizontal	Vertical
Peak Avg.	 <p>Site : 03CH15-4V Condition : PEAK_74 3m 91200_15_1620 HORIZONTAL Detector : Peak Project : 022715</p>	 <p>Site : 03CH15-4V Condition : PEAK_74 3m 91200_15_1620 VERTICAL Detector : Peak Project : 022715</p>

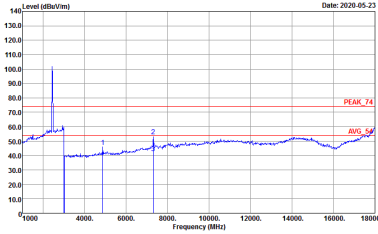
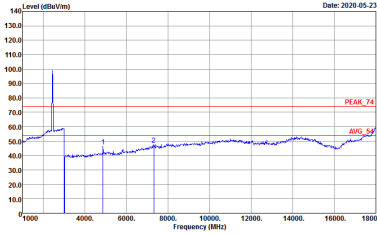


2.4GHz 2400~2483.5MHz

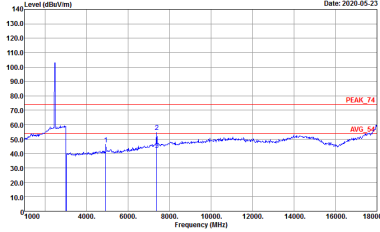
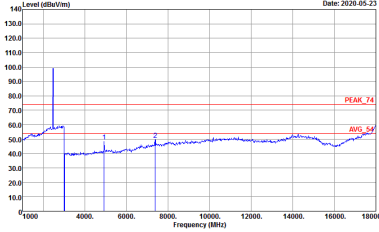
WIFI 802.11g (Harmonic @ 3m)

WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11g CH01 2412MHz	
1	Horizontal	Vertical
Peak Avg.	 <p>Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 HORIZONTAL Detector : Peak Project : 022715</p>	 <p>Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 VERTICAL Detector : Peak Project : 022715</p>

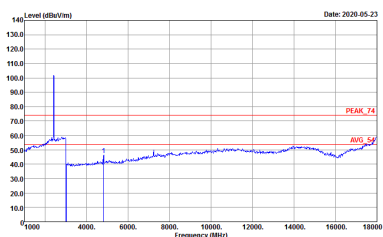
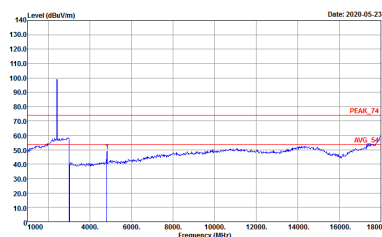


WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11g CH06 2437MHz	
1	Horizontal	Vertical
Peak Avg.	<div><p>Site : 03CH15-4V Condition : PEAK_74 3m 91200_15_1620 HORIZONTAL Detector : Peak Project : 022715</p></div>	<div><p>Site : 03CH15-4V Condition : PEAK_74 3m 91200_15_1620 VERTICAL Detector : Peak Project : 022715</p></div>

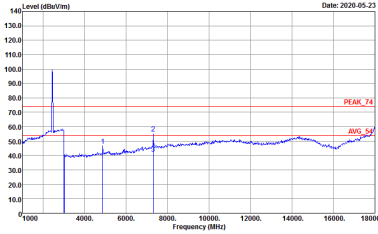
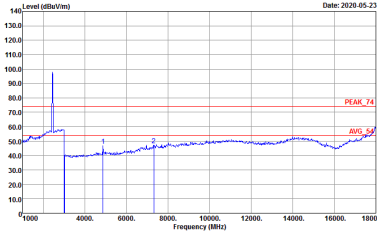


WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11g CH11 2462MHz	
1	Horizontal	Vertical
Peak Avg.	<div><p>Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 HORIZONTAL Detector : Peak Project : 022715</p></div>	<div><p>Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 VERTICAL Detector : Peak Project : 022715</p></div>

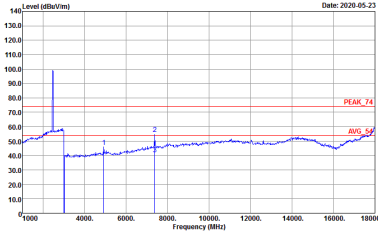
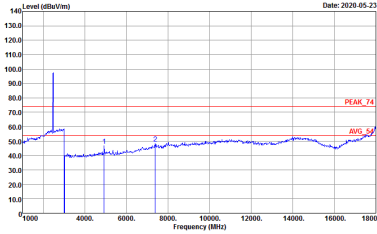
2.4GHz 2400~2483.5MHz
WIFI 802.11n HT20 (Harmonic @ 3m)

WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11n HT20 CH01 2412MHz	
1	Horizontal	Vertical
Peak Avg.	 <p> Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 HORIZONTAL Detector : Peak Project : 022715 </p>	 <p> Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 VERTICAL Detector : Peak Project : 022715 </p>

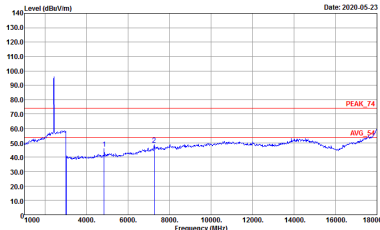
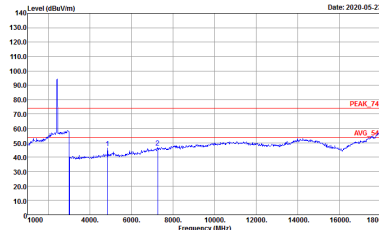


WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11n HT20 CH06 2437MHz	
1	Horizontal	Vertical
Peak Avg.	<div><p>Site : 03CH15-4V Condition : PEAK_74 3m 91200_15_1620 HORIZONTAL Detector : Peak Project : 022715</p></div>	<div><p>Site : 03CH15-4V Condition : PEAK_74 3m 91200_15_1620 VERTICAL Detector : Peak Project : 022715</p></div>

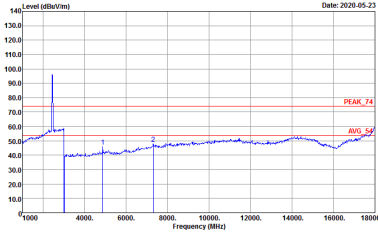
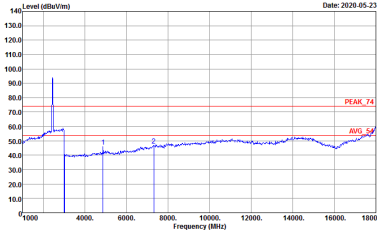


WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11n HT20 CH11 2462MHz	
1	Horizontal	Vertical
Peak Avg.	 <p>Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 HORIZONTAL Detector : Peak Project : 022715</p>	 <p>Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 VERTICAL Detector : Peak Project : 022715</p>

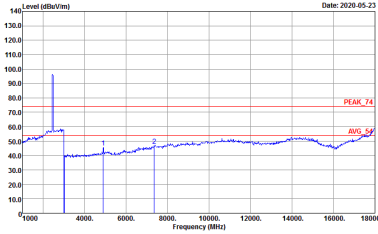
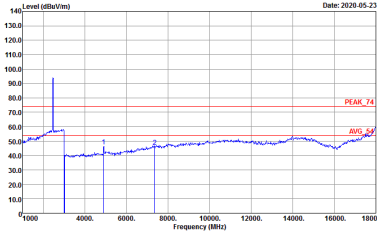
2.4GHz 2400~2483.5MHz
WIFI 802.11n HT40 (Harmonic @ 3m)

WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11n HT40 CH03 2422MHz	
1	Horizontal	Vertical
Peak Avg.	 <p> Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 HORIZONTAL Detector : Peak Project : 022715 </p>	 <p> Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 VERTICAL Detector : Peak Project : 022715 </p>



WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11n HT40 CH06 2437MHz	
1	Horizontal	Vertical
Peak Avg.	 <p>Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 HORIZONTAL Detector : Peak Project : 022715</p>	 <p>Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 VERTICAL Detector : Peak Project : 022715</p>

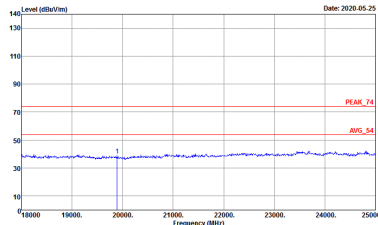
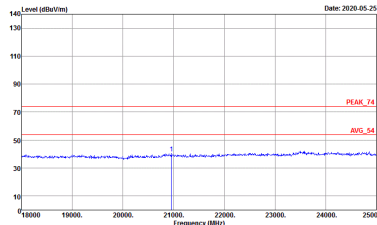


WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11n HT40 CH09 2452MHz	
1	Horizontal	Vertical
Peak Avg.	<div><p>Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 HORIZONTAL Detector : Peak Project : 022715</p></div>	<div><p>Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 VERTICAL Detector : Peak Project : 022715</p></div>

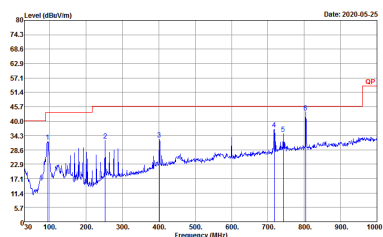
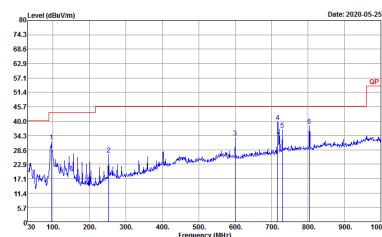


Emission above 1GHz

2.4GHz WIFI 802.11b

WIFI	2.4GHz 2400~2483.5MHz	
ANT	802.11b	
1	Horizontal	Vertical
Peak Avg.	 <p>Site : 03CH15-HY Condition : PEAK_74 1m SHF HORN BBH49170584 HORIZONTAL Detector : Peak Project : 022715</p>	 <p>Site : 03CH15-HY Condition : PEAK_74 1m SHF HORN BBH49170584 VERTICAL Detector : Peak Project : 022715</p>

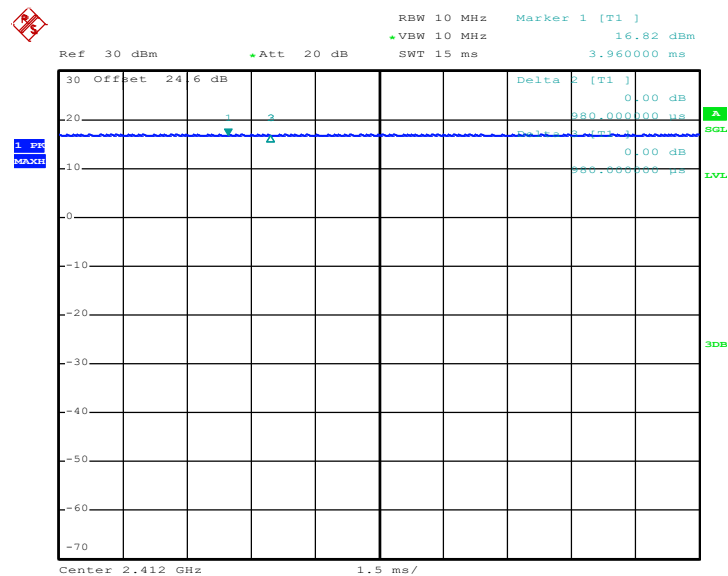
Emission below 1GHz
2.4GHz WIFI 802.11b (LF)

WIFI	2.4GHz 2400~2483.5MHz	
ANT	802.11b LF	
1	Horizontal	Vertical
QP / Peak	 <p> Site : 03CH15-HY Condition : QP 3m B1LOG_15_41912 HORIZONTAL Detector : Peak Project : 022715 </p>	 <p> Site : 03CH15-HY Condition : QP 3m B1LOG_15_41912 VERTICAL Detector : Peak Project : 022715 </p>

Appendix E. Duty Cycle Plots

Band	Duty Cycle (%)	T(us)	1/T(kHz)	VBW Setting	Duty Factor (dB)
802.11b	100.00	-	-	10Hz	0.00
802.11g	100.00	-	-	10Hz	0.00
2.4GHz 802.11n HT20	100.00	-	-	10Hz	0.00
2.4GHz 802.11n HT40	100.00	-	-	10Hz	0.00

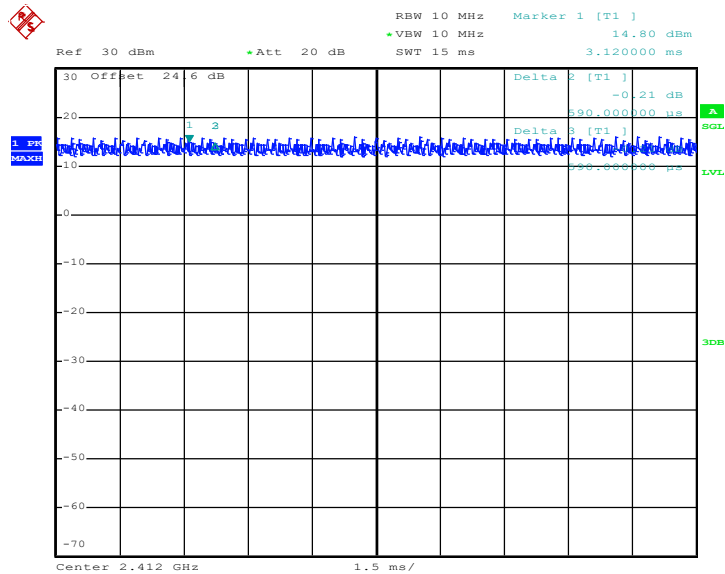
802.11b



Date: 19.MAR.2020 14:12:52

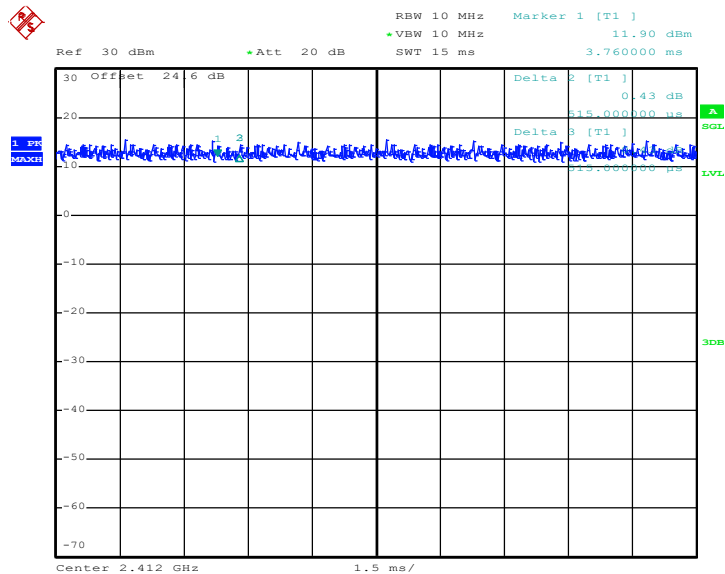


802.11g



Date: 19.MAR.2020 14:09:50

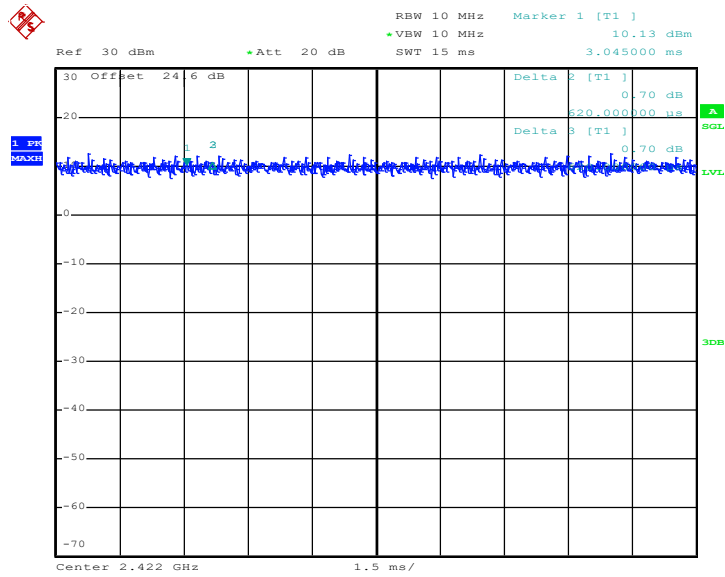
802.11n HT20



Date: 19.MAR.2020 14:23:03



802.11n HT40



Date: 19.MAR.2020 14:52:46