

FCC RADIO TEST REPORT

FCC ID : 2AFZZG7G
Equipment : Mobile Phone
Brand Name : Redmi
Model Name : M1906G7G
Applicant : Xiaomi Communications Co., Ltd.
Standard : FCC Part 15 Subpart C §15.247

The product was received on Jun. 18, 2019 and testing was started from Aug. 14, 2019 and completed on Sep. 13, 2019. 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.

Louis Wu

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
FR961832C	01	Initial issue of report	Sep. 24, 2019

Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.1	15.247(a)(2)	6dB Bandwidth	Pass	-
3.1	2.1049	99% Occupied Bandwidth	Reporting only	-
3.2	15.247(b)	Power Output Measurement	Pass	-
3.3	15.247(e)	Power Spectral Density	Pass	-
3.4	15.247(d)	Conducted Band Edges	Pass	-
		Conducted Spurious Emission	Pass	-
3.5	15.247(d)	Radiated Band Edges and Radiated Spurious Emission	Pass	Under limit 3.15 dB at 2389.905 MHz
3.6	15.207	AC Conducted Emission	Pass	Under limit 14.27 dB at 0.517 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: Yimin Ho



1 General Description

1.1 Applicant

Xiaomi Communications Co., Ltd.

The Rainbow City of China Resources, NO.68, Qinghe Middle Street, Haidian District, Beijing, China

1.2 Manufacturer

Xiaomi Communications Co., Ltd.

The Rainbow City of China Resources, NO.68, Qinghe Middle Street, Haidian District, Beijing, China

1.3 Product Feature of Equipment Under Test

GSM/WCDMA/LTE, Bluetooth, Wi-Fi 2.4GHz 802.11b/g/n, Wi-Fi 5GHz 802.11a/n/ac, FM Receiver, NFC, and GNSS

Product Specification subjective to this standard	
Antenna Type	WWAN: PIFA Antenna WLAN: <Ant. 1>: PIFA Antenna <Ant. 2>: PIFA Antenna Bluetooth: <Ant. 1>: PIFA Antenna <Ant. 2>: PIFA Antenna GPS / Glonass / BDS / Galileo : PIFA Antenna NFC: Loop Antenna FM: Using earphone as Antenna

1.4 Modification of EUT

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



1.5 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

1.6 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. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.

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 (X 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		

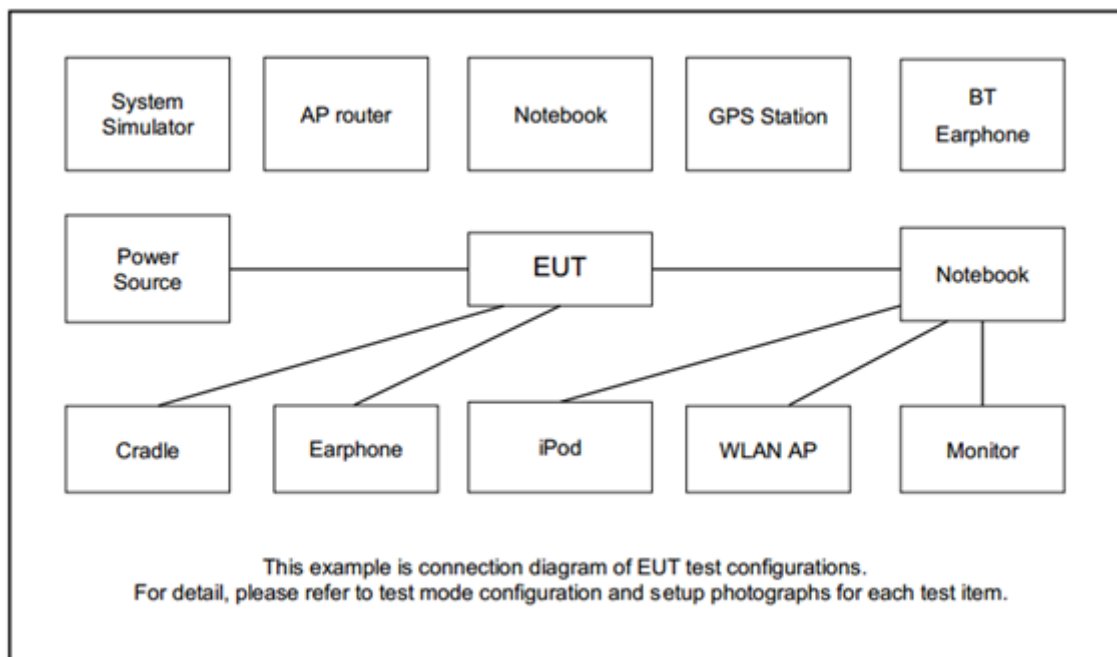
2.2 Test Mode

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: LTE Band 2 Link + Bluetooth Link + WLAN (2.4GHz) Link + Video Record (Front) + Earphone + SD Card + USB Cable 1 (Charging from AC Adapter) + SIM 1
Remark: For Radiated Test Cases, the tests were performed with USB Cable 1	

2.3 Connection Diagram of Test System



2.4 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model Name	FCC ID	Data Cable	Power Cord
1.	Bluetooth Earphone	Sony Ericsson	MW600	PY7DDA-2029	N/A	N/A
2.	WLAN AP	ASUS	RT-AC66U	MSQ-RTAC66U	N/A	Unshielded, 1.8 m
3.	Notebook	DELL	Latitude E6320	FCC DoC/ Contains FCC ID: QDS-BRCM1054	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
4.	System Simulator	Anritsu	MT8820C	N/A	N/A	Unshielded, 1.8 m
5.	SD Card	SanDisk	MicroSD HC	FCC DoC	N/A	N/A



2.5 EUT Operation Test Setup

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

2.6 Measurement Results Explanation Example

For all conducted test items:

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

Example:

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

Offset = RF cable loss + attenuator factor.

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

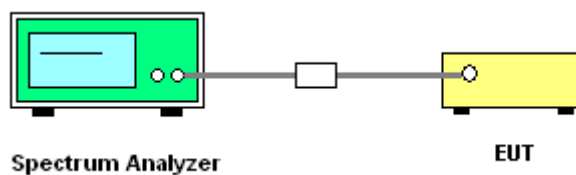
3.1.2 Measuring Instruments

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.

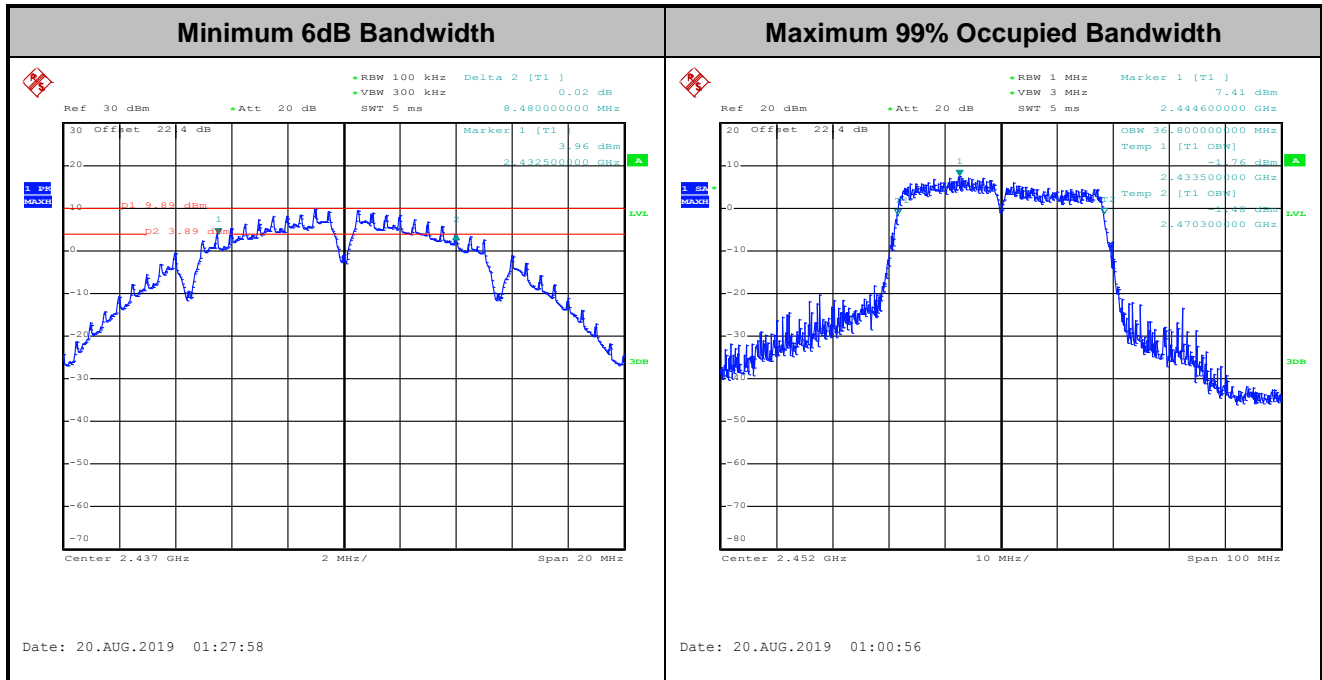
3.1.4 Test Setup





3.1.5 Test Result of 6dB and 99% Occupied Bandwidth

Please refer to Appendix A.



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

3.2 Output Power Measurement

3.2.1 Limit of Output Power

For systems using digital modulation in the 2400-2483.5MHz, the limit for peak 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.

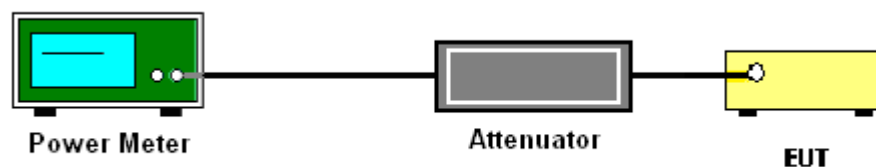
3.2.2 Measuring Instruments

See list of measuring equipment of this test report.

3.2.3 Test Procedures

1. For Peak Power, the testing follows ANSI C63.10 Section 11.9.1.3 PKPM1
2. For Average Power, the testing follows ANSI C63.10 Section 11.9.2.3.2 Method AVGPM-G
3. 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.
4. Set to the maximum power setting and enable the EUT transmit continuously.
5. Measure the conducted output power and record the results in the test report.

3.2.4 Test Setup



3.2.5 Test Result of 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

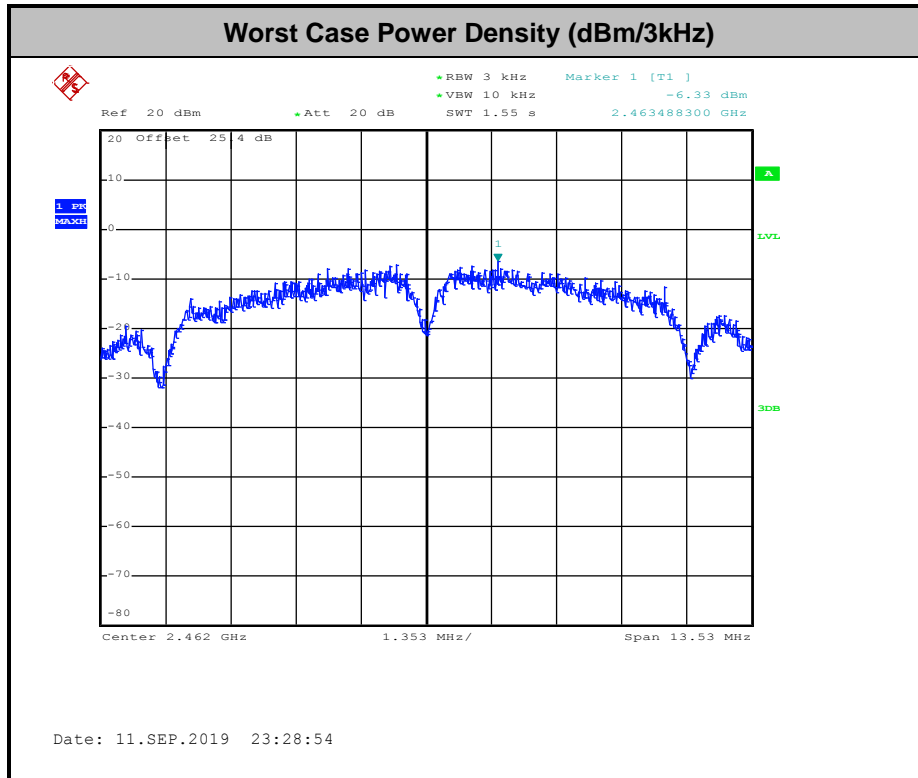
1. The testing follows the ANSI C63.10 Section 11.10.2 Method PKPSD.
2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the EUT transmit continuously.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

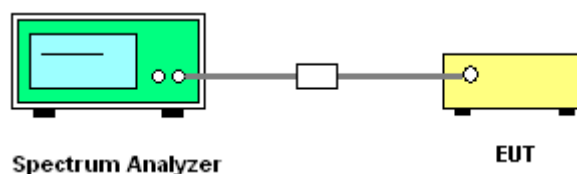
3.4.2 Measuring Instruments

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

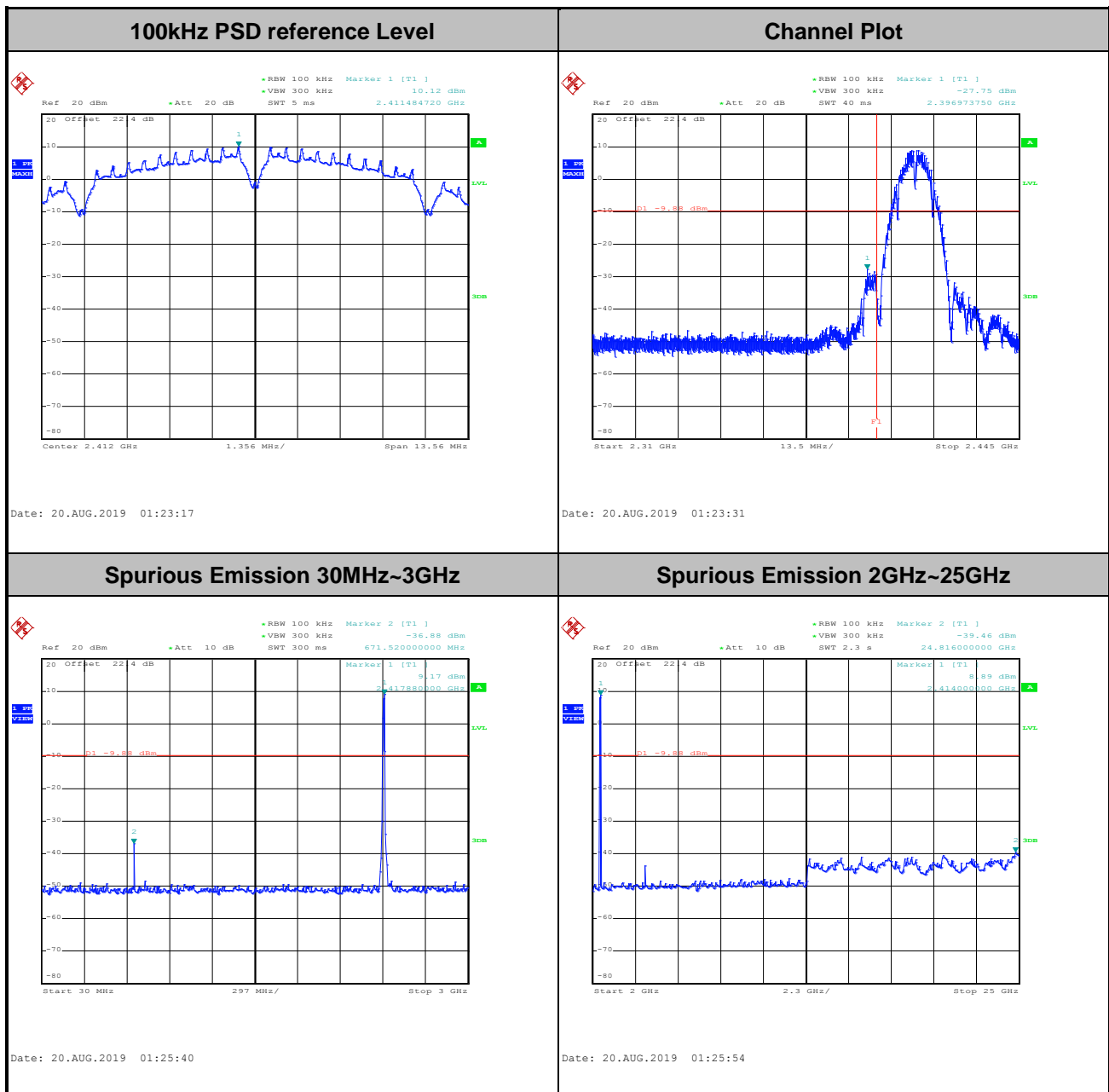


**3.4.5 Test Result of Conducted Band Edges and Spurious Emission**

Test Engineer :	Nick Yu, Shiming Liu, Derek Hsu	Temperature :	21~25°C
		Relative Humidity :	51~54%

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

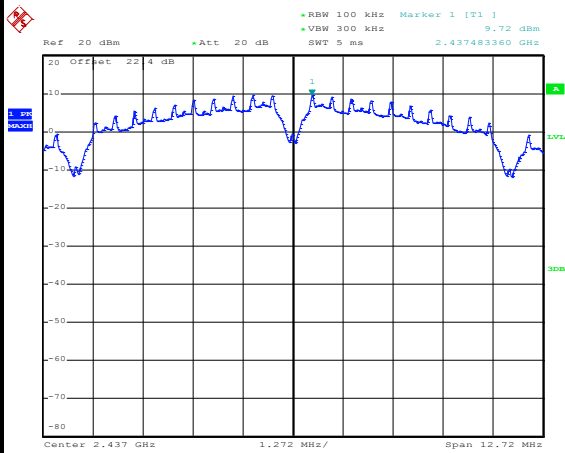
Test Mode :	802.11b	Test Channel :	01
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Test Mode :	802.11b	Test Channel :	06
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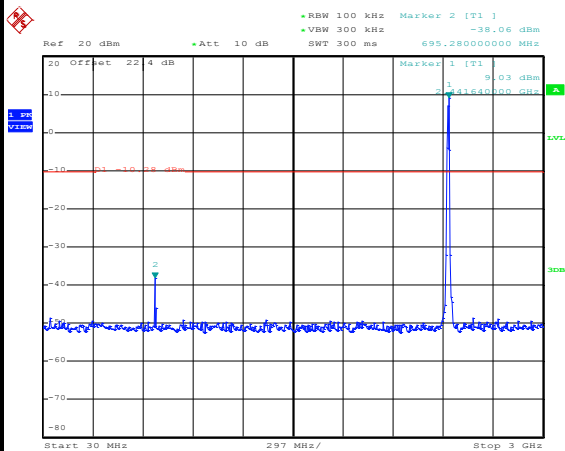
100kHz PSD reference Level



Date: 20.AUG.2019 01:32:21

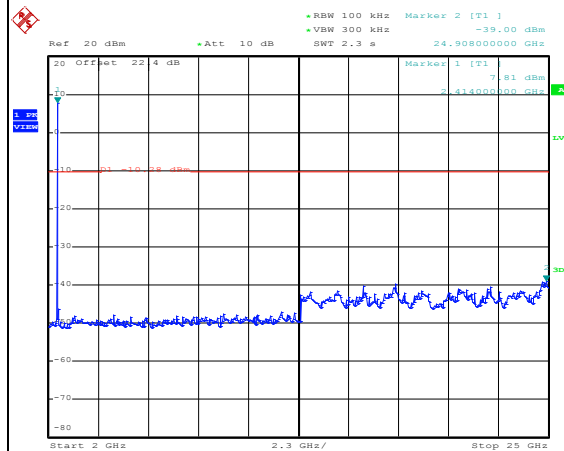
Channel Plot

Spurious Emission 30MHz~3GHz



Date: 20.AUG.2019 01:34:06

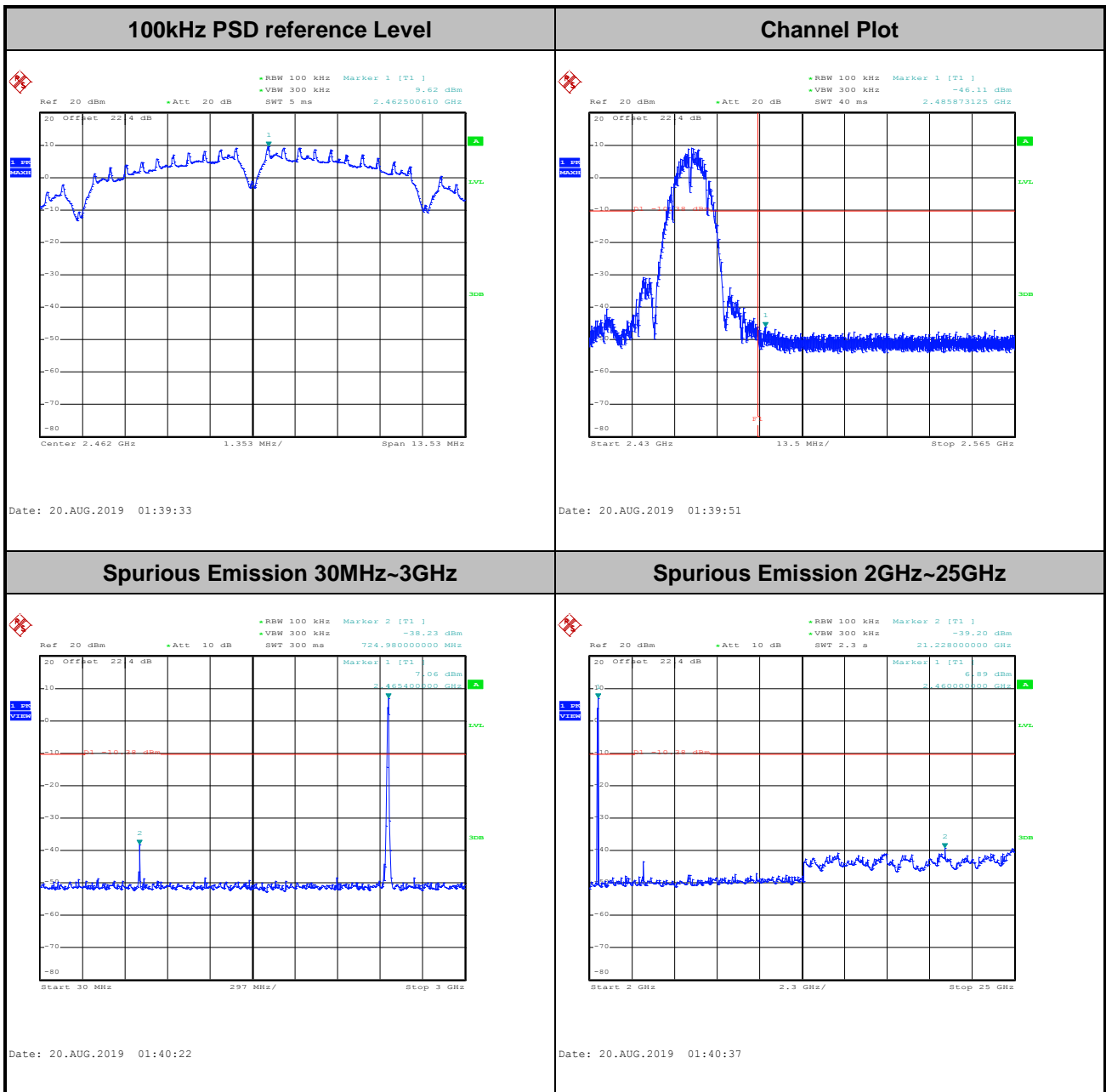
Spurious Emission 2GHz~25GHz



Date: 20.AUG.2019 01:34:22

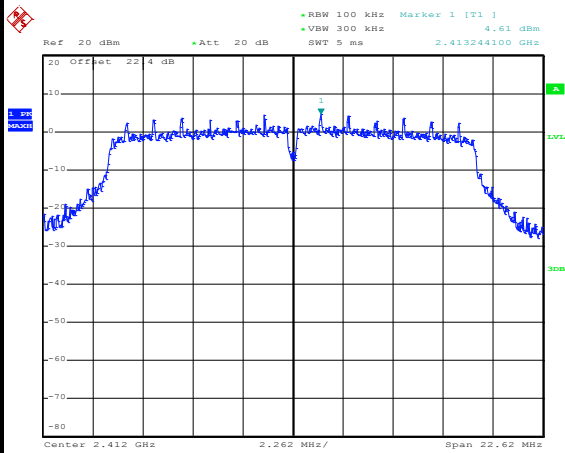


Test Mode :	802.11b	Test Channel :	11
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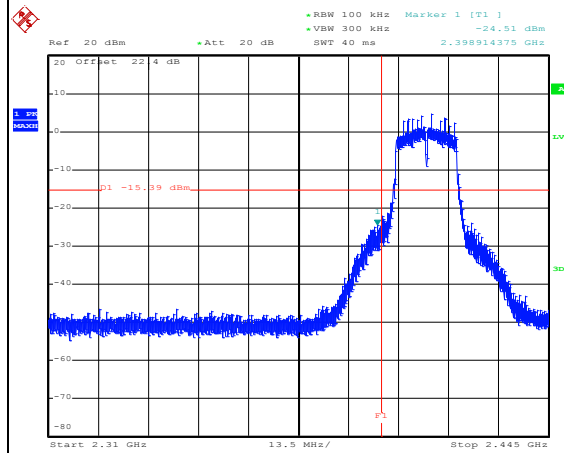




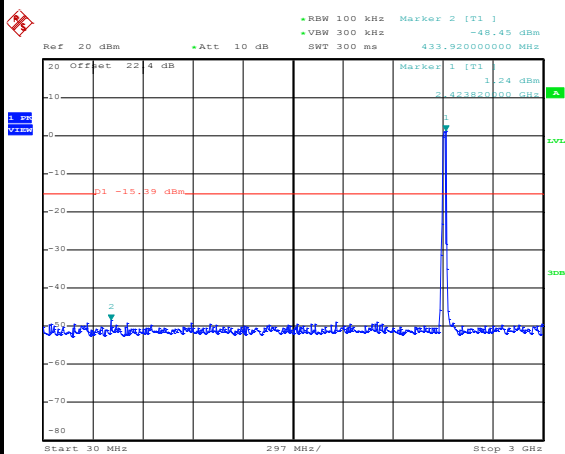
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100kHz PSD reference Level

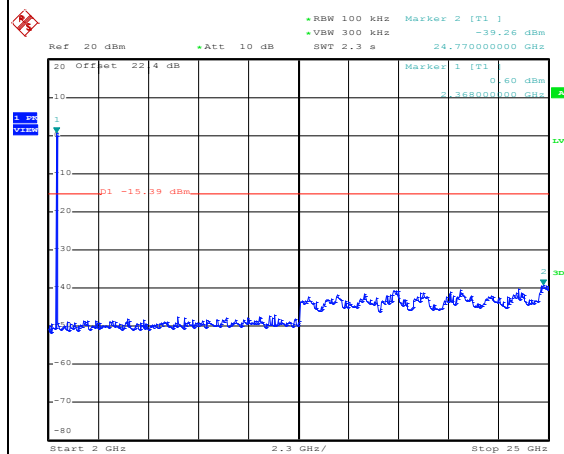
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Channel Plot

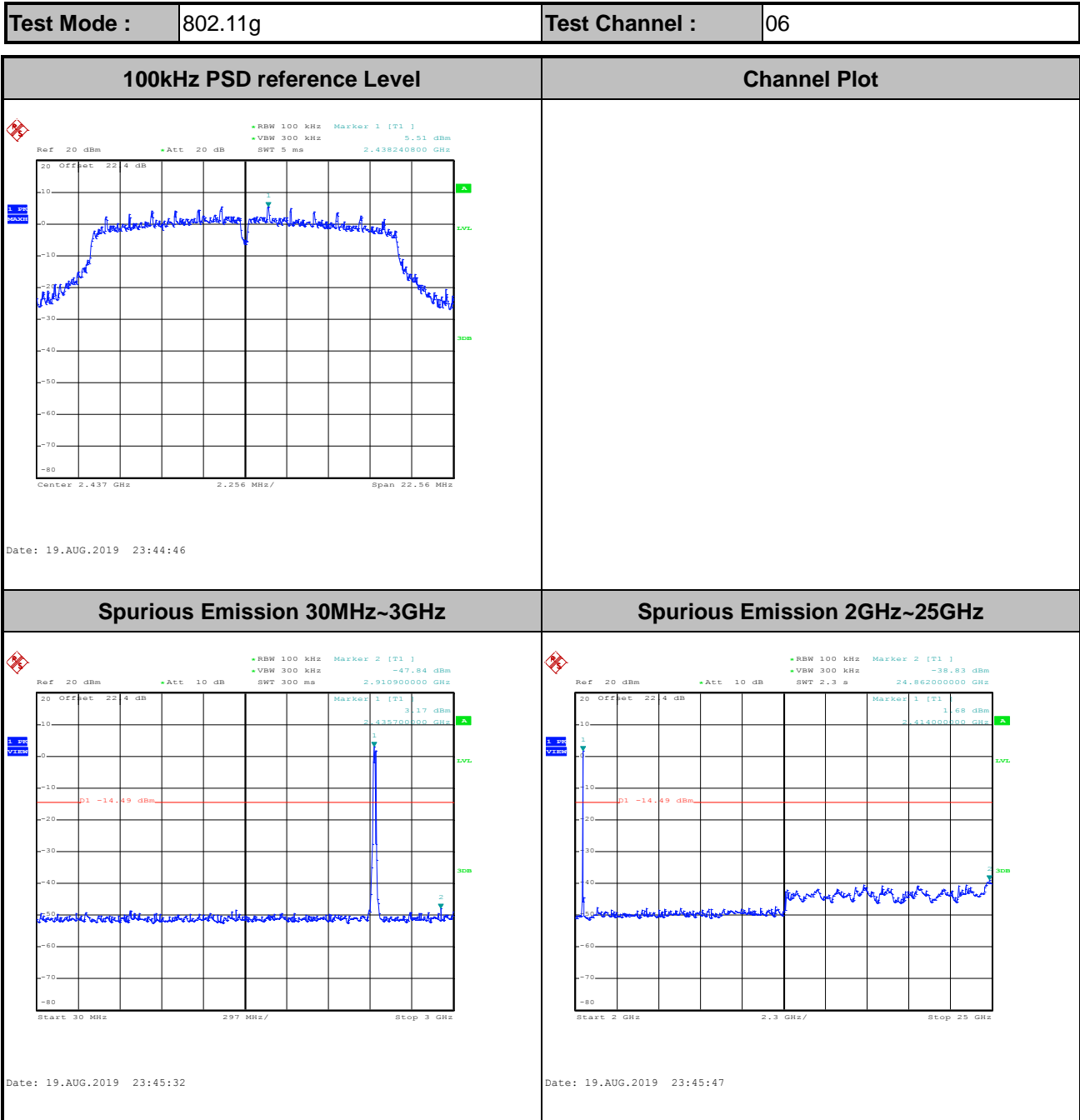
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Spurious Emission 30MHz~3GHz

Date: 19.AUG.2019 23:32:26

Spurious Emission 2GHz~25GHz

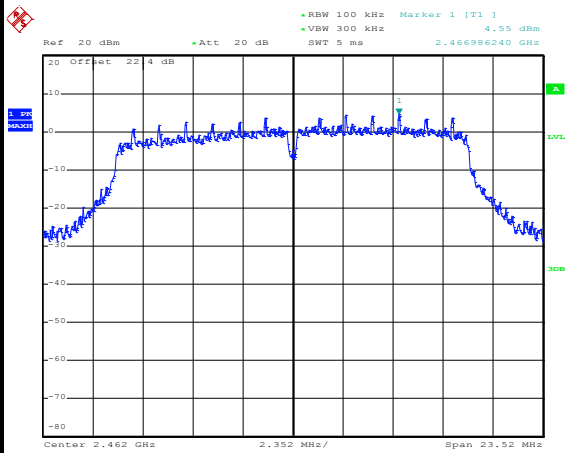
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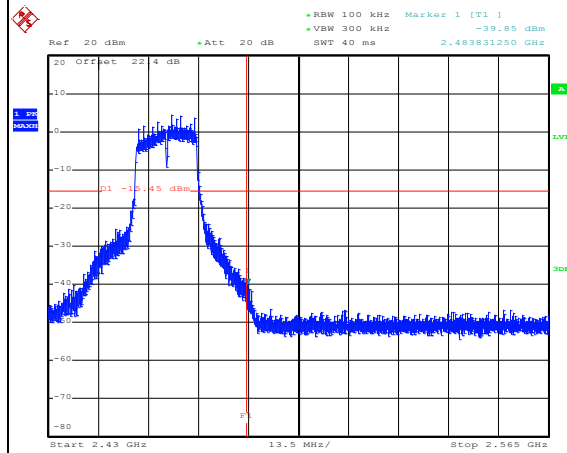
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100kHz PSD reference Level



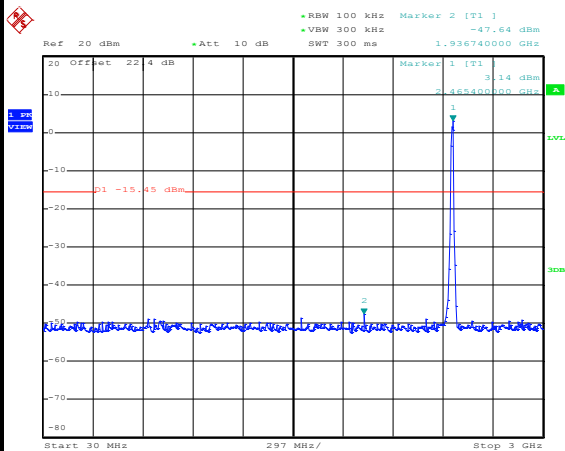
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Channel Plot



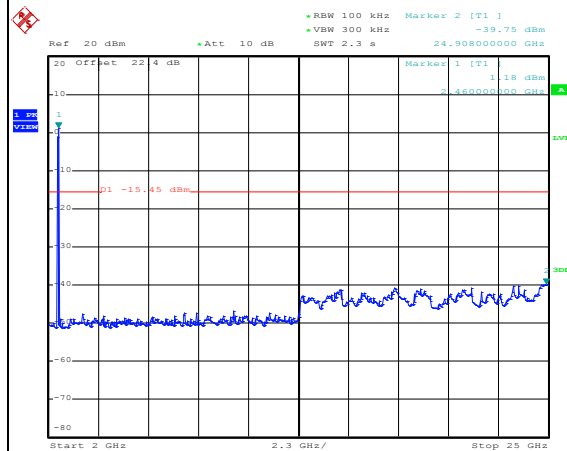
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Spurious Emission 30MHz~3GHz



Date: 20.AUG.2019 00:01:04

Spurious Emission 2GHz~25GHz



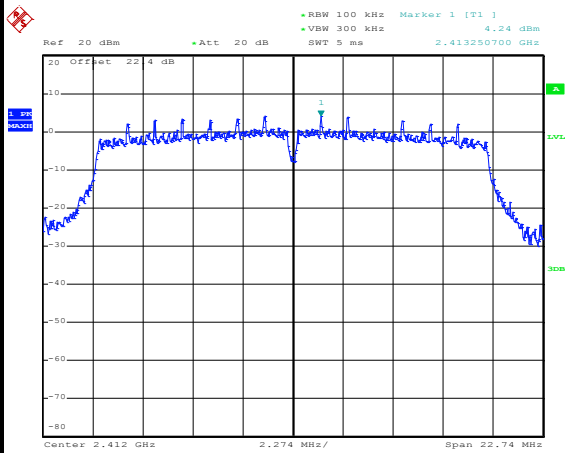
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Test Mode : 802.11n HT20

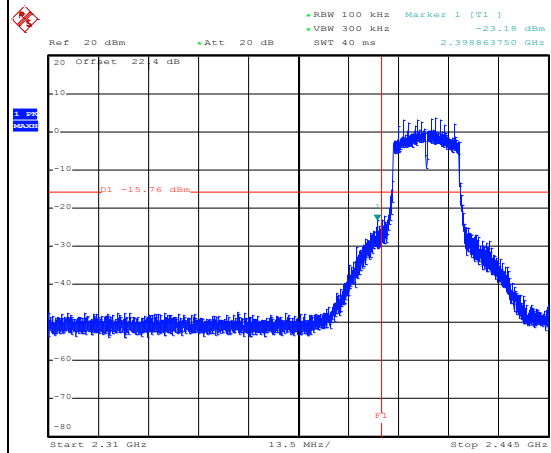
Test Channel : 01

100kHz PSD reference Level



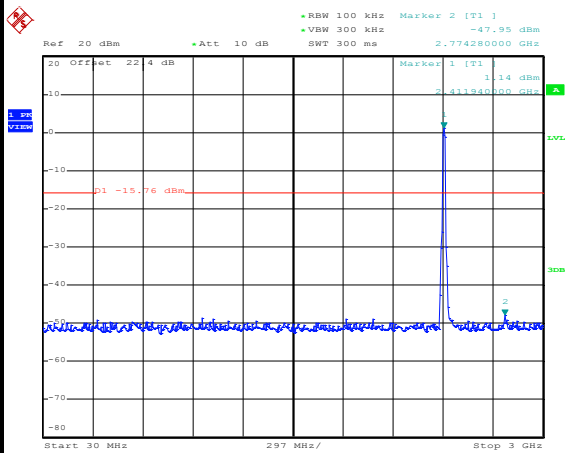
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Channel Plot



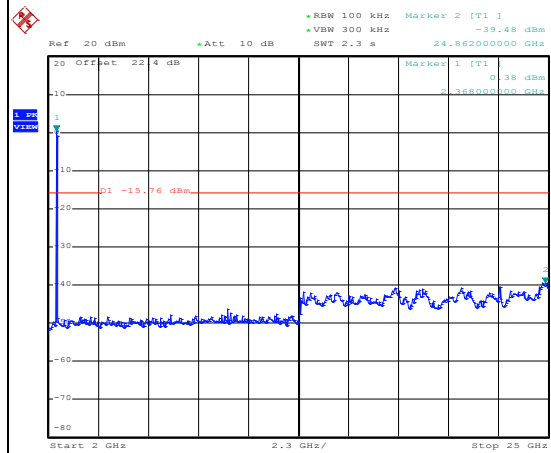
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Spurious Emission 30MHz~3GHz



Date: 20.AUG.2019 00:34:21

Spurious Emission 2GHz~25GHz

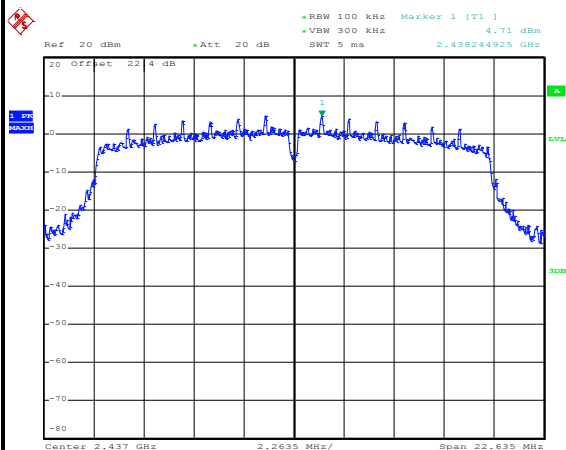


Date: 20.AUG.2019 00:34:36



Test Mode :	802.11n HT20	Test Channel :	06
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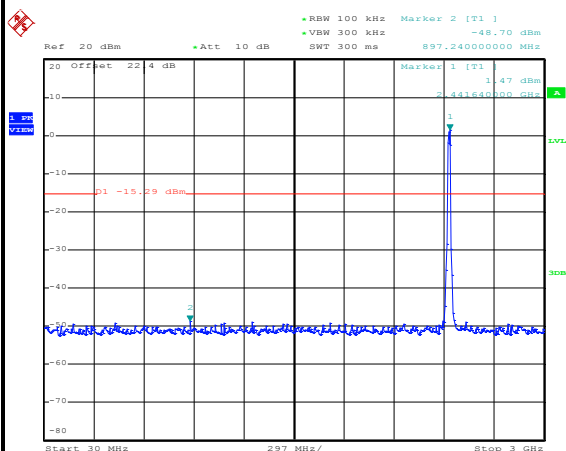
100kHz PSD reference Level



Date: 20.AUG.2019 00:17:05

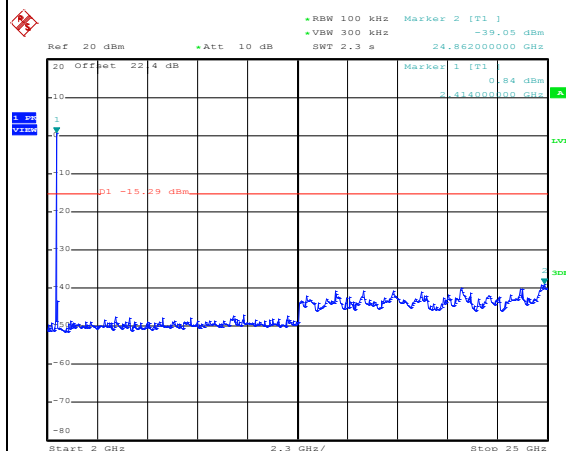
Channel Plot

Spurious Emission 30MHz~3GHz



Date: 20.AUG.2019 00:19:23

Spurious Emission 2GHz~25GHz

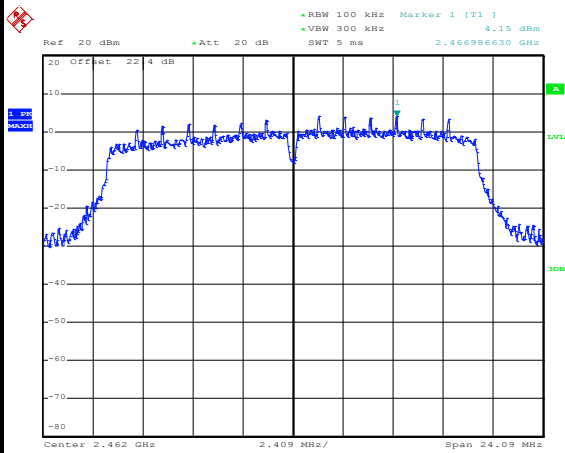


Date: 20.AUG.2019 00:19:40



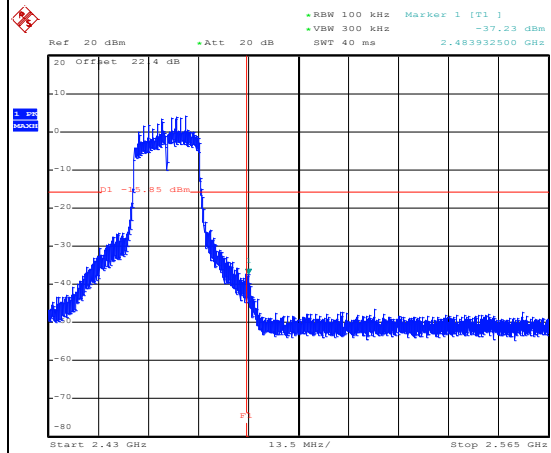
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100kHz PSD reference Level



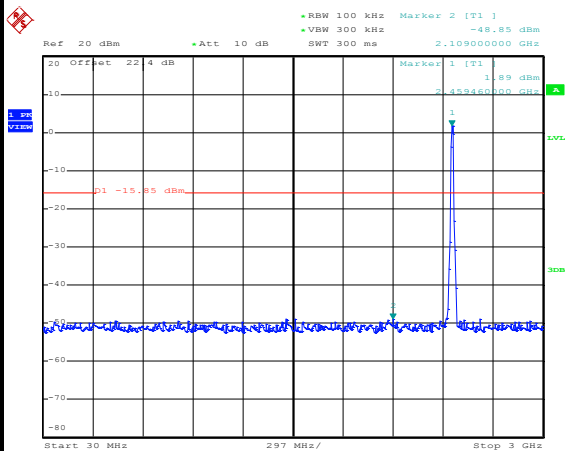
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Channel Plot



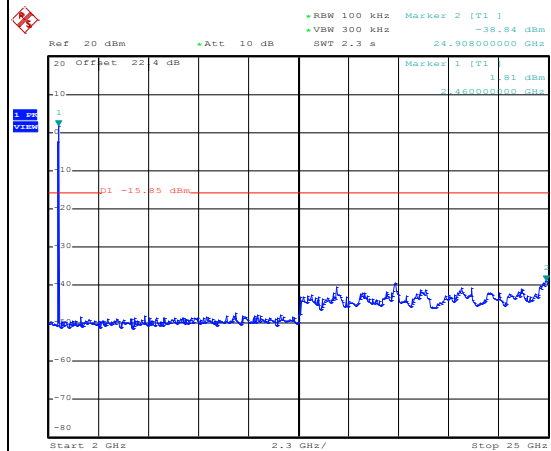
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Spurious Emission 30MHz~3GHz



Date: 20.AUG.2019 00:28:09

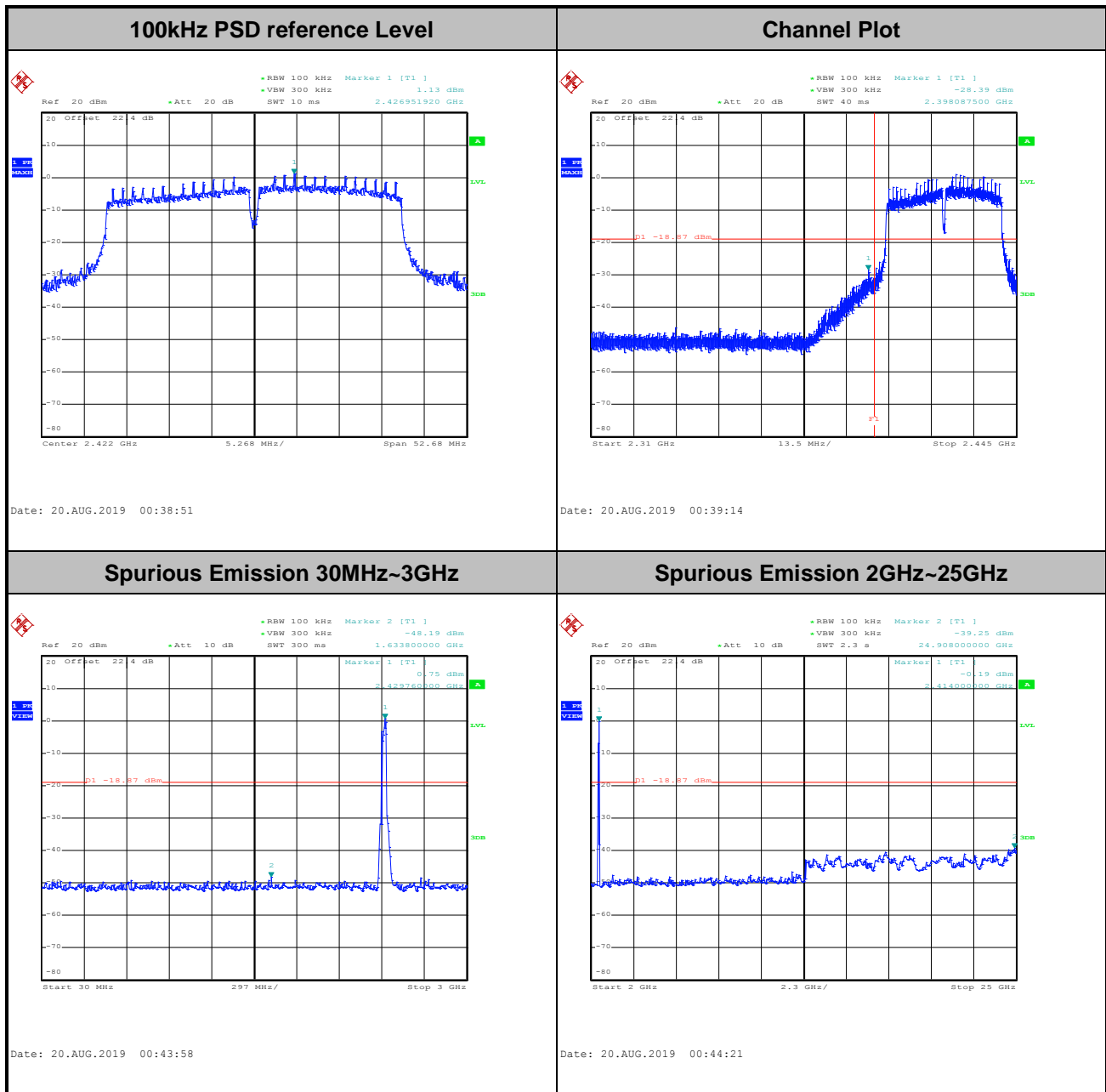
Spurious Emission 2GHz~25GHz

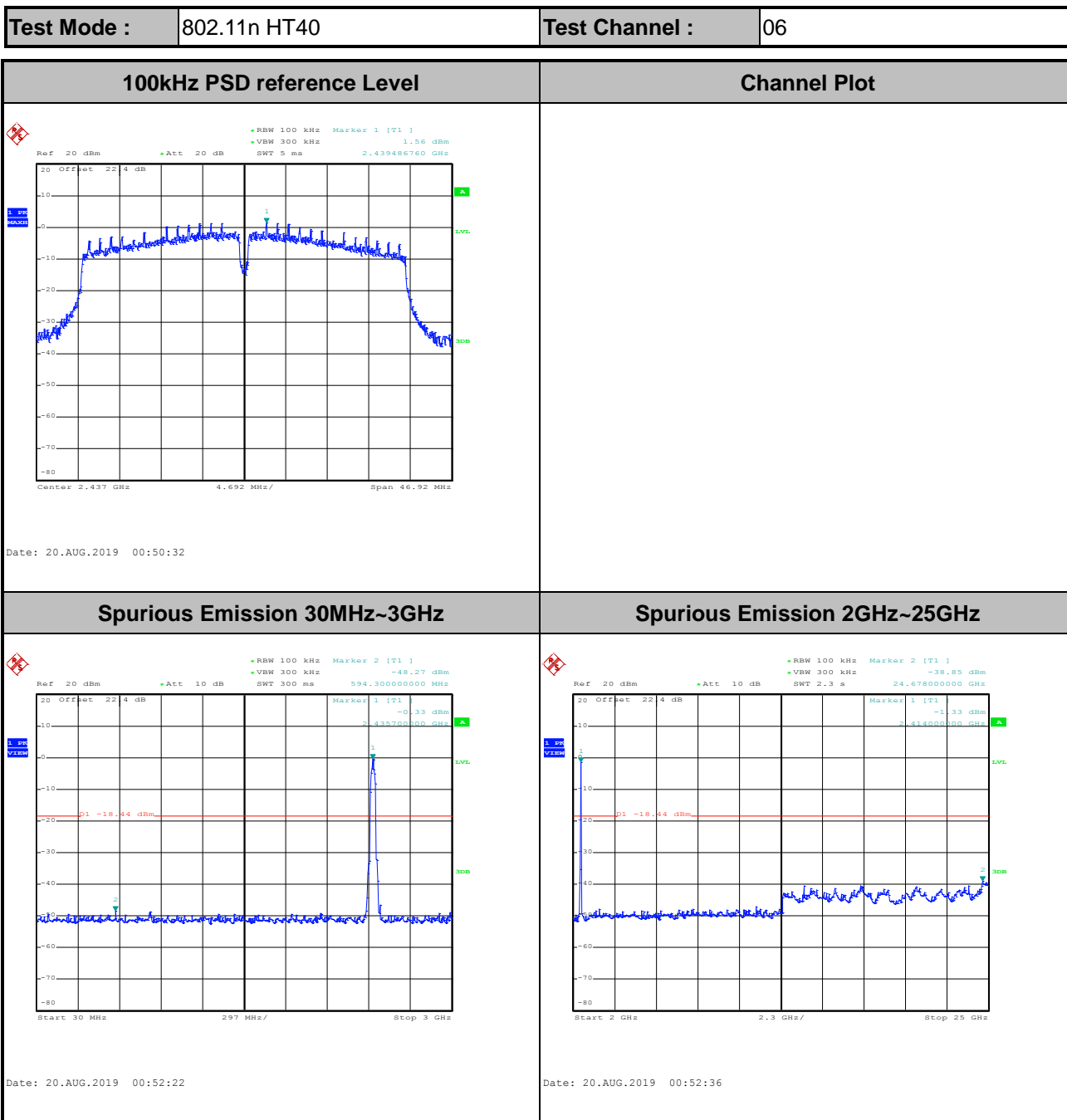


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Test Mode :	802.11n HT40	Test Channel :	03
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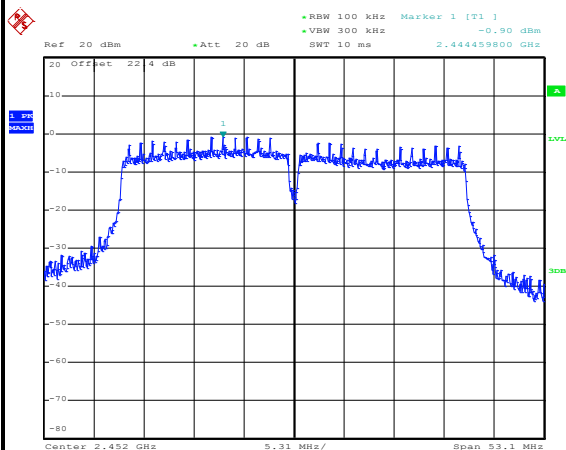






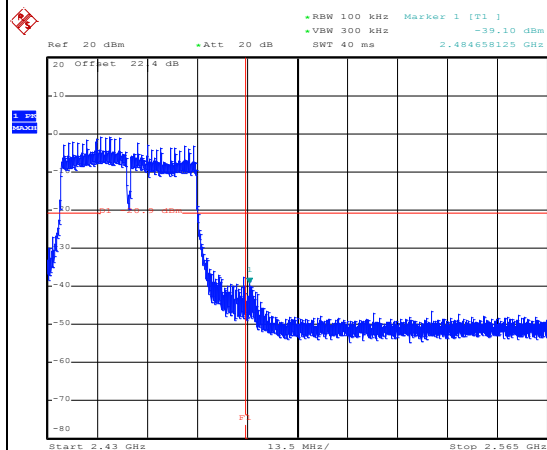
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100kHz PSD reference Level



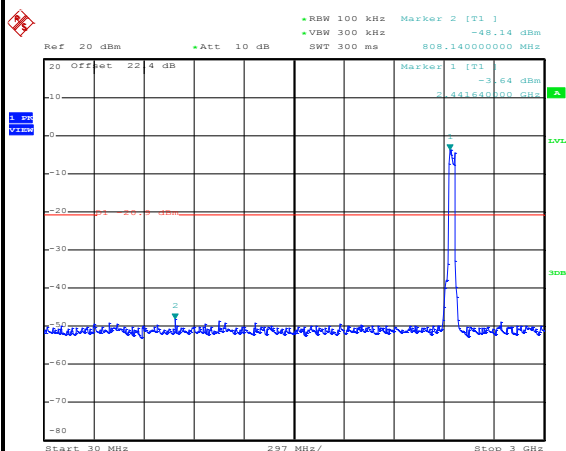
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Channel Plot



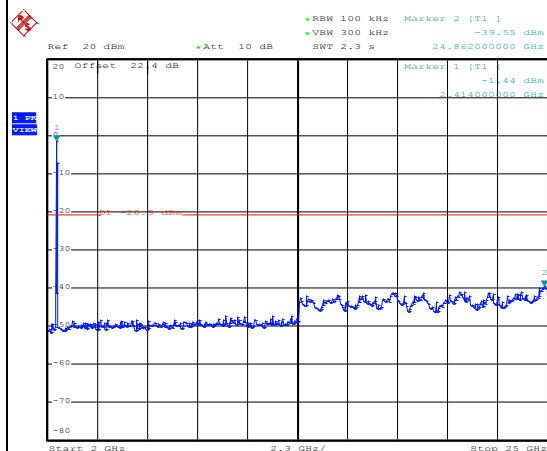
Date: 20.AUG.2019 00:59:14

Spurious Emission 30MHz~3GHz



Date: 20.AUG.2019 00:59:46

Spurious Emission 2GHz~25GHz



Date: 20.AUG.2019 01:00:01

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

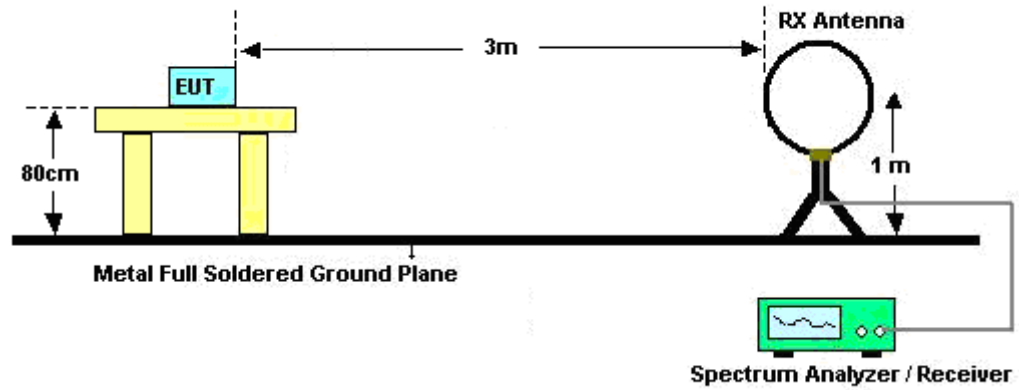
See list of measuring equipment of this test report.

3.5.3 Test Procedures

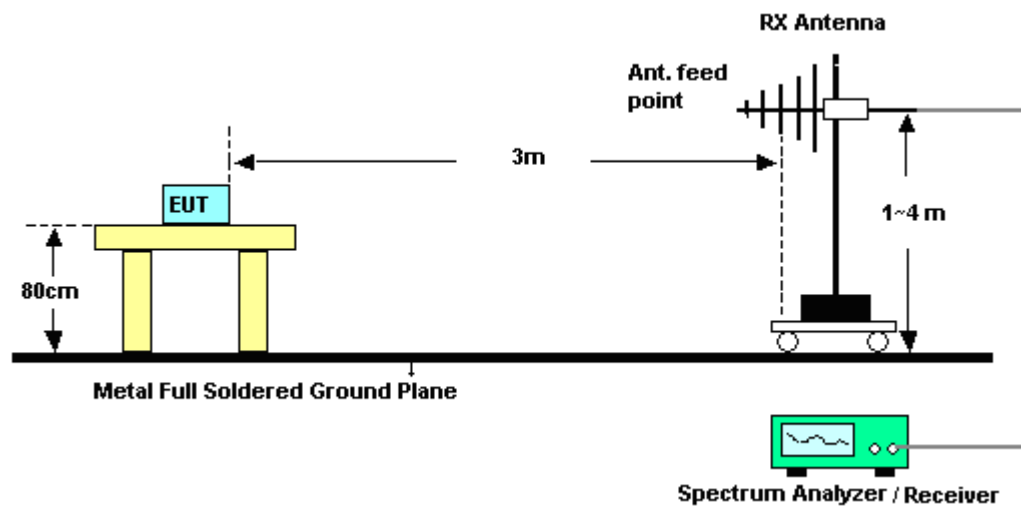
1. The testing follows the ANSI C63.10 Section 11.12.1 Radiated emission measurements.
2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the 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

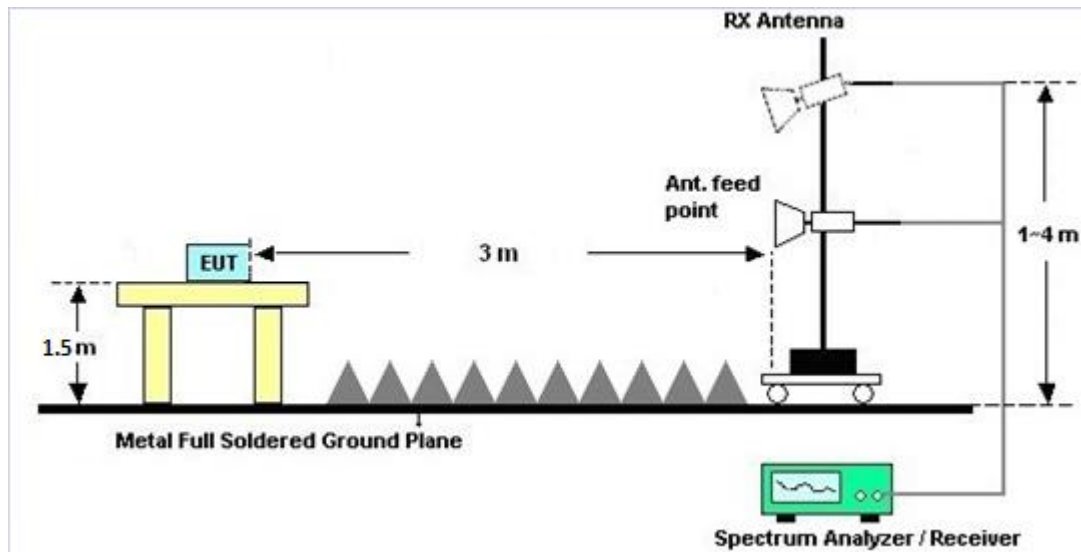
For radiated emissions below 30MHz



For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz



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.

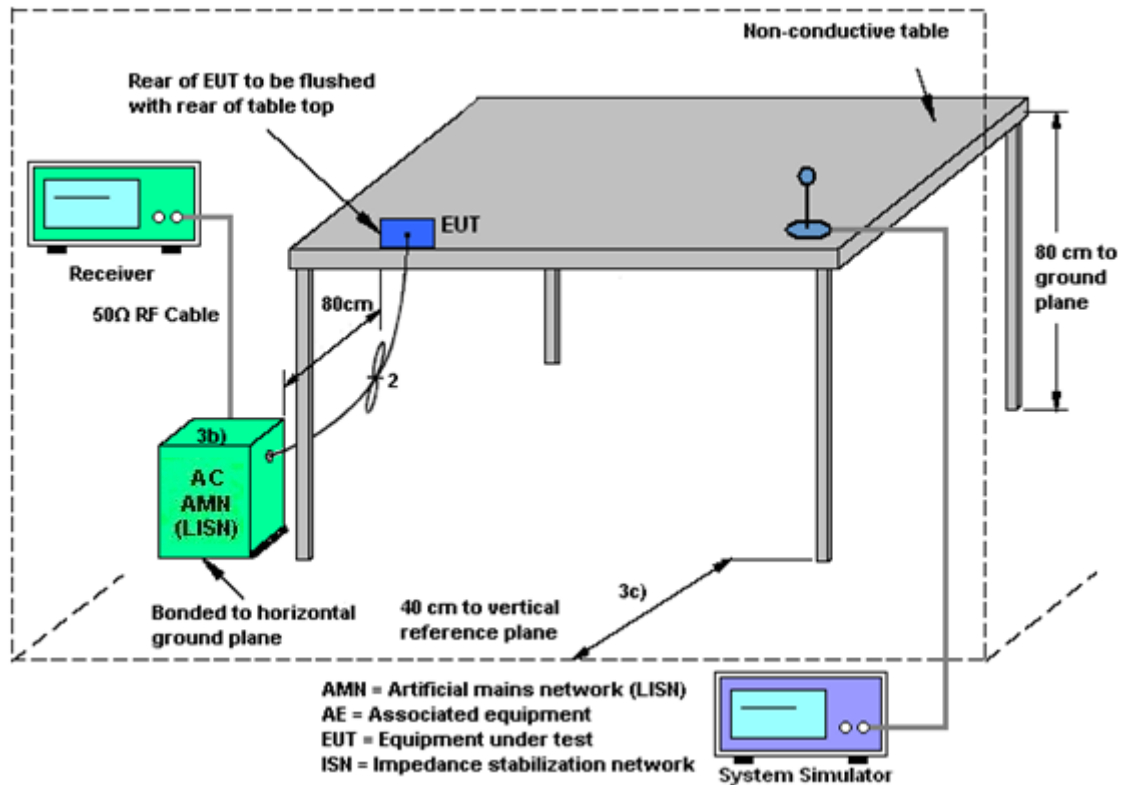
3.6.2 Measuring Instruments

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 LP0002 Section 2.2, Section 3.10.1.3, and Section 3.10.1.4

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	Sep. 13, 2019	N/A	Conduction (CO05-HY)
EMI Test Receiver	Rohde & Schwarz	ESR3	102388	9kHz~3.6GHz	Nov. 12, 2018	Sep. 13, 2019	Nov. 11, 2019	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100080	9kHz~30MHz	Nov. 14, 2018	Sep. 13, 2019	Nov. 13, 2019	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100081	9kHz~30MHz	Nov. 09, 2018	Sep. 13, 2019	Nov. 08, 2019	Conduction (CO05-HY)
Software	Rohde & Schwarz	EMC32 V10.30	N/A	N/A	N/A	Sep. 13, 2019	N/A	Conduction (CO05-HY)
LF Cable	HUBER + SUHNER	RG-214/U	LF01	N/A	Dec. 31, 2018	Sep. 13, 2019	Dec. 30, 2019	Conduction (CO05-HY)
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100851	N/A	Dec. 31, 2018	Sep. 13, 2019	Dec. 30, 2019	Conduction (CO05-HY)
Bilog Antenna	TESEQ	CBL6111D&00800N1D01N-06	41912&05	30MHz to 1GHz	Feb. 12, 2019	Sep. 06, 2019~Sep. 12, 2019	Feb. 11, 2020	Radiation (03CH15-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120D	9120D-1620	1G~18GHz	Oct. 17, 2018	Sep. 06, 2019~Sep. 12, 2019	Oct. 16, 2019	Radiation (03CH15-HY)
Amplifier	SONOMA	310N	363440	9kHz~1GHz	Dec. 28, 2018	Sep. 06, 2019~Sep. 12, 2019	Dec. 27, 2019	Radiation (03CH15-HY)
Preamplifier	Jet-Power	JPA0118-55-303	17100018000550006	1GHz~18GHz	Jul. 09, 2019	Sep. 06, 2019~Sep. 12, 2019	Jul. 08, 2020	Radiation (03CH15-HY)
Preamplifier	Keysight	83017A	MY53270195	1GHz~26.5GHz	Aug. 23, 2018	Sep. 06, 2019~Sep. 12, 2019	Aug. 22, 2020	Radiation (03CH15-HY)
EMI Test Receiver	Keysight	N9038A (MXE)	MY54130085	20Hz ~ 8.4GHz	Nov. 01, 2018	Sep. 06, 2019~Sep. 12, 2019	Oct. 31, 2019	Radiation (03CH15-HY)
Spectrum Analyzer	Agilent	E4446A	MY50180136	3Hz~44GHz	Apr. 29, 2019	Sep. 06, 2019~Sep. 12, 2019	Apr. 28, 2020	Radiation (03CH15-HY)
Antenna Mast	ChainTek	MBS-520-1	N/A	1m~4m	N/A	Sep. 06, 2019~Sep. 12, 2019	N/A	Radiation (03CH15-HY)
Turn Table	ChainTek	T-200-S-1	N/A	0~360 Degree	N/A	Sep. 06, 2019~Sep. 12, 2019	N/A	Radiation (03CH15-HY)
Software	Audix	E3 6.2009-8-24(k5)	RK-000451	N/A	N/A	Sep. 06, 2019~Sep. 12, 2019	N/A	Radiation (03CH15-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY36980/4	30M-18G	Apr. 15, 2019	Sep. 06, 2019~Sep. 12, 2019	Apr. 14, 2020	Radiation (03CH15-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY9838/4 PE	30M-18G	Apr. 15, 2019	Sep. 06, 2019~Sep. 12, 2019	Apr. 14, 2020	Radiation (03CH15-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY802430/4	30M~18GHz	May 13, 2019	Sep. 06, 2019~Sep. 12, 2019	May 12, 2020	Radiation (03CH15-HY)
Filter	Wainwright	WLK4-1000-1530-8000-40S S	SN4	1.53G Low Pass	Jul. 04, 2019	Sep. 06, 2019~Sep. 12, 2019	Jul. 03, 2020	Radiation (03CH15-HY)
Filter	Wainwright	WHKX12-2700-3000-18000-60ST	SN1	3 GHz Highpass	Sep. 17, 2018	Sep. 06, 2019~Sep. 12, 2019	Sep. 16, 2019	Radiation (03CH15-HY)



Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Power Meter	Anritsu	ML2495A	1218006	N/A	Oct. 08, 2018	Aug. 14, 2019~ Sep. 12, 2019	Oct. 07, 2019	Conducted (TH05-HY)
Power Sensor	Anritsu	MA2411B	1207363	300MHz~40GHz	Oct. 08, 2018	Aug. 14, 2019~ Sep. 12, 2019	Oct. 07, 2019	Conducted (TH05-HY)
Power Sensor	DARE	RPR3006W	16I00054S NO10	10MHz~6GHz	Dec. 19, 2018	Aug. 14, 2019~ Sep. 12, 2019	Dec. 18, 2019	Conducted (TH05-HY)
Spectrum Analyzer	Rohde & Schwarz	FSP40	100057	9kHz-40GHz	Nov. 21, 2018	Aug. 14, 2019~ Sep. 12, 2019	Nov. 20, 2019	Conducted (TH05-HY)
Switch Box & RF Cable	EM	EMSW18	SW107090 3	N/A	Dec. 19, 2018	Aug. 14, 2019~ Sep. 12, 2019	Dec. 18, 2019	Conducted (TH05-HY)

5 Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	2.20
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Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.20
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Uncertainty of Radiated Emission Measurement (1000 MHz ~ 18000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.50
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Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.20
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Appendix A. Test Result of Conducted Test Items

Test Engineer:	Nick Yu/Shiming Liu/Derek Hsu	Temperature:	21~25	°C
Test Date:	2019/8/14~2019/9/12	Relative Humidity:	51~54	%

TEST RESULTS DATA
6dB and 99% Occupied Bandwidth

2.4GHz Band										
Mod.	Data Rate	NTx	CH.	Freq. (MHz)	99% Occupied BW (MHz)		6dB BW (MHz)		6dB BW Limit (MHz)	Pass/Fail
					Ant 1	Ant 2	Ant 1	Ant 2		
11b	1Mbps	1	1	2412	13.80	-	9.04	-	0.50	Pass
11b	1Mbps	1	6	2437	13.60	-	8.48	-	0.50	Pass
11b	1Mbps	1	11	2462	13.60	-	9.02	-	0.50	Pass
11g	6Mbps	1	1	2412	16.90	-	15.08	-	0.50	Pass
11g	6Mbps	1	6	2437	16.75	-	15.04	-	0.50	Pass
11g	6Mbps	1	11	2462	16.85	-	15.68	-	0.50	Pass
HT20	MCS0	1	1	2412	17.90	-	15.16	-	0.50	Pass
HT20	MCS0	1	6	2437	17.70	-	15.09	-	0.50	Pass
HT20	MCS0	1	11	2462	17.80	-	16.06	-	0.50	Pass
HT40	MCS0	1	3	2422	36.70	-	35.12	-	0.50	Pass
HT40	MCS0	1	6	2437	35.90	-	31.28	-	0.50	Pass
HT40	MCS0	1	9	2452	36.80	-	35.40	-	0.50	Pass

TEST RESULTS DATA
Peak Output Power

2.4GHz Band																
Mod.	Data Rate	NTx	CH.	Freq. (MHz)	Peak Conducted Power (dBm)			Conducted Power Limit (dBm)		DG (dBi)		EIRP Power (dBm)		EIRP Power Limit (dBm)		Pass /Fail
					Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	
11b	1Mbps	1	1	2412	16.26	15.82	-	30.00	30.00	-0.74	-3.76	15.52	12.06	36.00	36.00	Pass
11b	1Mbps	1	6	2437	17.22	16.28	-	30.00	30.00	-0.74	-3.76	16.48	12.52	36.00	36.00	Pass
11b	1Mbps	1	11	2462	18.62	18.15	-	30.00	30.00	-0.74	-3.76	17.88	14.39	36.00	36.00	Pass
11g	6Mbps	1	1	2412	22.40	21.64	-	30.00	30.00	-0.74	-3.76	21.66	17.88	36.00	36.00	Pass
11g	6Mbps	1	6	2437	22.43	21.65	-	30.00	30.00	-0.74	-3.76	21.69	17.89	36.00	36.00	Pass
11g	6Mbps	1	11	2462	22.42	21.64	-	30.00	30.00	-0.74	-3.76	21.68	17.88	36.00	36.00	Pass
HT20	MCS0	1	1	2412	22.43	21.69	-	30.00	30.00	-0.74	-3.76	21.69	17.93	36.00	36.00	Pass
HT20	MCS0	1	6	2437	22.45	21.70	-	30.00	30.00	-0.74	-3.76	21.71	17.94	36.00	36.00	Pass
HT20	MCS0	1	11	2462	22.44	21.69	-	30.00	30.00	-0.74	-3.76	21.70	17.93	36.00	36.00	Pass
HT40	MCS0	1	3	2422	22.73	21.96	-	30.00	30.00	-0.74	-3.76	21.99	18.20	36.00	36.00	Pass
HT40	MCS0	1	6	2437	22.80	21.83	-	30.00	30.00	-0.74	-3.76	22.06	18.07	36.00	36.00	Pass
HT40	MCS0	1	9	2452	21.66	21.20	-	30.00	30.00	-0.74	-3.76	20.92	17.44	36.00	36.00	Pass

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

TEST RESULTS DATA
Average Output Power

2.4GHz Band																
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
					Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	
11b	1Mbps	1	1	2412	14.20	13.80	-	30.00	30.00	-0.74	-3.76	13.46	10.04	36.00	36.00	Pass
11b	1Mbps	1	6	2437	14.90	14.40		30.00	30.00	-0.74	-3.76	14.16	10.64	36.00	36.00	Pass
11b	1Mbps	1	11	2462	16.50	16.20		30.00	30.00	-0.74	-3.76	15.76	12.44	36.00	36.00	Pass
11g	6Mbps	1	1	2412	14.10	13.90		30.00	30.00	-0.74	-3.76	13.36	10.14	36.00	36.00	Pass
11g	6Mbps	1	6	2437	16.10	15.30		30.00	30.00	-0.74	-3.76	15.36	11.54	36.00	36.00	Pass
11g	6Mbps	1	11	2462	14.50	14.20		30.00	30.00	-0.74	-3.76	13.76	10.44	36.00	36.00	Pass
HT20	MCS0	1	1	2412	13.40	13.20		30.00	30.00	-0.74	-3.76	12.66	9.44	36.00	36.00	Pass
HT20	MCS0	1	6	2437	15.00	14.20		30.00	30.00	-0.74	-3.76	14.26	10.44	36.00	36.00	Pass
HT20	MCS0	1	11	2462	13.70	13.50		30.00	30.00	-0.74	-3.76	12.96	9.74	36.00	36.00	Pass
HT40	MCS0	1	3	2422	14.20	13.60		30.00	30.00	-0.74	-3.76	13.46	9.84	36.00	36.00	Pass
HT40	MCS0	1	6	2437	14.30	13.40		30.00	30.00	-0.74	-3.76	13.56	9.64	36.00	36.00	Pass
HT40	MCS0	1	9	2452	11.60	11.50		30.00	30.00	-0.74	-3.76	10.86	7.74	36.00	36.00	Pass

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

TEST RESULTS DATA
Peak Power Spectral Density

2.4GHz Band												
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Peak PSD (dBm/3kHz)			DG (dBi)		Peak PSD Limit (dBm/3kHz)		Pass/Fail
					Ant 1	Ant 2	Worse + 3.01	Ant 1	Ant 2	Ant 1	Ant 2	
11b	1Mbps	1	1	2412	-8.08	-	-	-0.74	-3.76	8.00	8.00	Pass
11b	1Mbps	1	6	2437	-7.19	-	-	-0.74	-3.76	8.00	8.00	Pass
11b	1Mbps	1	11	2462	-6.33	-	-	-0.74	-3.76	8.00	8.00	Pass
11g	6Mbps	1	1	2412	-11.60	-	-	-0.74	-3.76	8.00	8.00	Pass
11g	6Mbps	1	6	2437	-8.37	-	-	-0.74	-3.76	8.00	8.00	Pass
11g	6Mbps	1	11	2462	-11.14	-	-	-0.74	-3.76	8.00	8.00	Pass
HT20	MCS0	1	1	2412	-12.32	-	-	-0.74	-3.76	8.00	8.00	Pass
HT20	MCS0	1	6	2437	-9.60	-	-	-0.74	-3.76	8.00	8.00	Pass
HT20	MCS0	1	11	2462	-11.34	-	-	-0.74	-3.76	8.00	8.00	Pass
HT40	MCS0	1	3	2422	-14.02	-	-	-0.74	-3.76	8.00	8.00	Pass
HT40	MCS0	1	6	2437	-13.68	-	-	-0.74	-3.76	8.00	8.00	Pass
HT40	MCS0	1	9	2452	-16.43	-	-	-0.74	-3.76	8.00	8.00	Pass

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



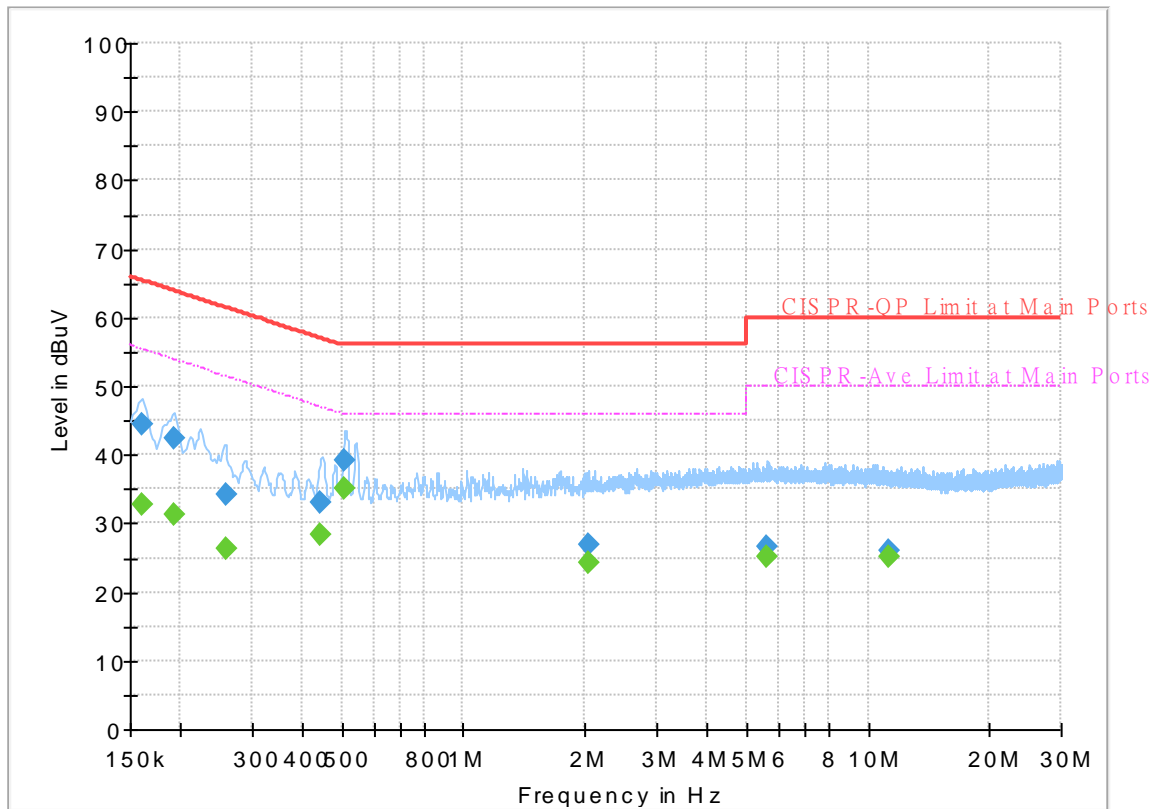
Appendix B. AC Conducted Emission Test Results

Test Engineer :	Jimmy Chang	Temperature :	24~26°C
		Relative Humidity :	52~56%

EUT Information

Report NO : 961832
Test Mode : Mode 1
Test Voltage : 120Vac/60Hz
Phase : Line

Full Spectrum



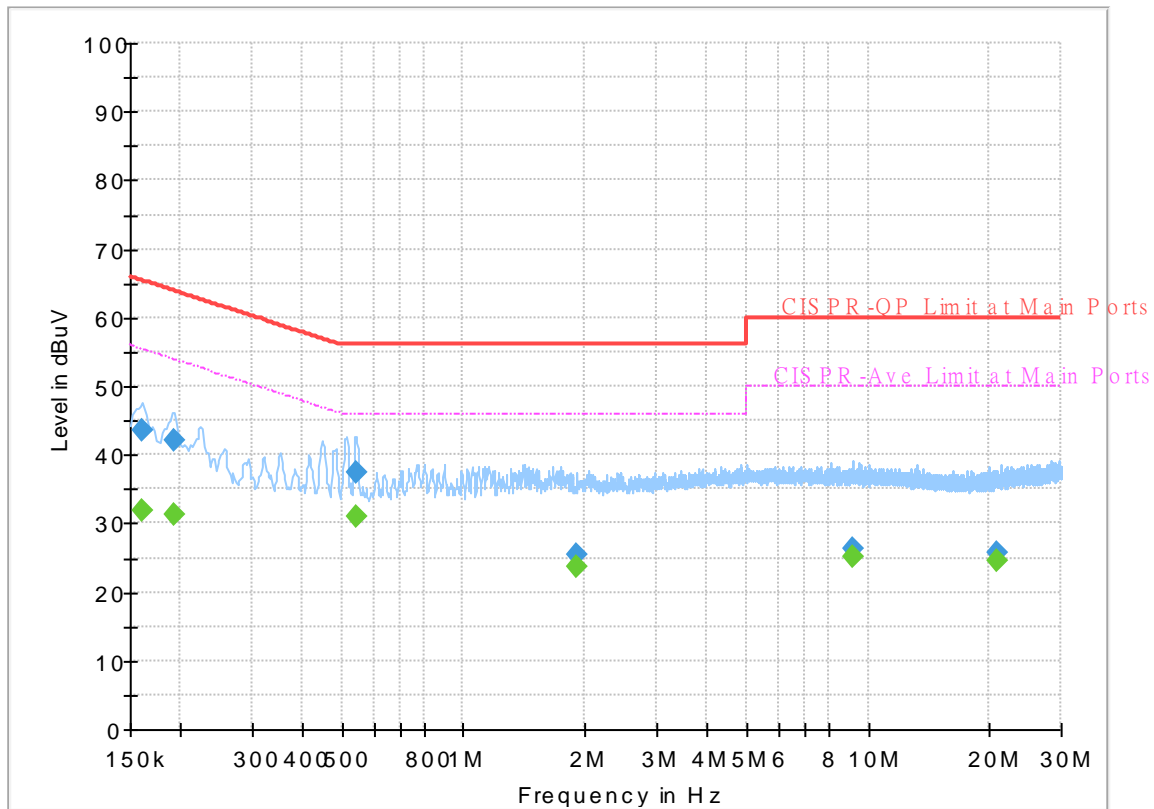
Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.161250	---	32.64	55.40	22.76	L1	OFF	19.4
0.161250	44.53	---	65.40	20.87	L1	OFF	19.4
0.192750	---	31.24	53.92	22.68	L1	OFF	19.4
0.192750	42.30	---	63.92	21.62	L1	OFF	19.4
0.258000	---	26.20	51.50	25.30	L1	OFF	19.4
0.258000	34.15	---	61.50	27.35	L1	OFF	19.4
0.444750	---	28.23	46.97	18.74	L1	OFF	19.4
0.444750	33.19	---	56.97	23.78	L1	OFF	19.4
0.510000	---	35.14	46.00	10.86	L1	OFF	19.4
0.510000	39.25	---	56.00	16.75	L1	OFF	19.4
2.046750	---	24.18	46.00	21.82	L1	OFF	19.5
2.046750	26.79	---	56.00	29.21	L1	OFF	19.5
5.651250	---	25.29	50.00	24.71	L1	OFF	19.6
5.651250	26.70	---	60.00	33.30	L1	OFF	19.6
11.280750	---	25.05	50.00	24.95	L1	OFF	19.9
11.280750	26.14	---	60.00	33.86	L1	OFF	19.9

EUT Information

Report NO : 961832
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)
0.161250	---	31.92	55.40	23.48	N	OFF	19.5
0.161250	43.63	---	65.40	21.77	N	OFF	19.5
0.192750	---	31.33	53.92	22.59	N	OFF	19.5
0.192750	42.00	---	63.92	21.92	N	OFF	19.5
0.543750	---	30.91	46.00	15.09	N	OFF	19.5
0.543750	37.53	---	56.00	18.47	N	OFF	19.5
1.898250	---	23.64	46.00	22.36	N	OFF	19.6
1.898250	25.54	---	56.00	30.46	N	OFF	19.6
9.197250	---	25.08	50.00	24.92	N	OFF	19.8
9.197250	26.24	---	60.00	33.76	N	OFF	19.8
20.895000	---	24.66	50.00	25.34	N	OFF	20.3
20.895000	25.60	---	60.00	34.40	N	OFF	20.3



Appendix C. Radiated Spurious Emission

Test Engineer :	Leo Liao, Karl Hou and Bigshow Wang	Temperature :	23~26°C
		Relative Humidity :	50~65%

2.4GHz 2400~2483.5MHz

WIFI 802.11b (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)
802.11b CH 01 2412MHz		2330.37	53.88	-20.12	74	41.2	27.77	16.08	31.17	140	122	P	H
		2386.02	43.23	-10.77	54	30.63	27.6	16.15	31.15	140	122	A	H
	*	2412	103.41	-	-	90.76	27.6	16.18	31.13	140	122	P	H
	*	2412	100.53	-	-	87.88	27.6	16.18	31.13	140	122	A	H
													H
													H
		2340.66	53.7	-20.3	74	41.08	27.7	16.09	31.17	380	239	P	V
		2386.335	42.8	-11.2	54	30.2	27.6	16.15	31.15	380	239	A	V
	*	2412	101.97	-	-	89.32	27.6	16.18	31.13	380	239	P	V
	*	2412	99.02	-	-	86.37	27.6	16.18	31.13	380	239	A	V
													V
													V
802.11b CH 06 2437MHz		2351.16	53.06	-20.94	74	40.41	27.7	16.11	31.16	100	128	P	H
		2389.94	42.57	-11.43	54	29.96	27.6	16.16	31.15	100	128	A	H
	*	2437	105.3	-	-	92.61	27.6	16.21	31.12	100	128	P	H
	*	2437	102.25	-	-	89.56	27.6	16.21	31.12	100	128	A	H
		2497.55	52.51	-21.49	74	39.93	27.4	16.27	31.09	100	128	P	H
		2483.5	42.51	-11.49	54	29.89	27.47	16.25	31.1	100	128	A	H
		2345.28	53.35	-20.65	74	40.72	27.7	16.1	31.17	372	240	P	V
		2388.12	42.52	-11.48	54	29.92	27.6	16.15	31.15	372	240	A	V
	*	2437	104.05	-	-	91.36	27.6	16.21	31.12	372	240	P	V
	*	2437	101.04	-	-	88.35	27.6	16.21	31.12	372	240	A	V
		2490.9	53.1	-20.9	74	40.53	27.4	16.26	31.09	372	240	P	V
		2483.55	42.36	-11.64	54	29.74	27.47	16.25	31.1	372	240	A	V



802.11b CH 11 2462MHz	*	2462	106.5	-	-	93.85	27.53	16.23	31.11	162	127	P	H
	*	2462	103.42	-	-	90.77	27.53	16.23	31.11	162	127	A	H
		2494.4	53.03	-20.97	74	40.46	27.4	16.26	31.09	162	127	P	H
		2483.52	43.03	-10.97	54	30.41	27.47	16.25	31.1	162	127	A	H
													H
													H
	*	2462	105.07	-	-	92.42	27.53	16.23	31.11	365	230	P	V
	*	2462	101.98	-	-	89.33	27.53	16.23	31.11	365	230	A	V
		2500	53.11	-20.89	74	40.53	27.4	16.27	31.09	365	230	P	V
		2483.52	43.16	-10.84	54	30.54	27.47	16.25	31.1	365	230	A	V
													V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz

WIFI 802.11b (Harmonic @ 3m)

WIFI Ant.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11b CH 01 2412MHz		4824	53.11	-20.89	74	75.46	31.3	9.62	63.27	100	125	P	H
		4824	50.63	-3.37	54	72.98	31.3	9.62	63.27	100	125	A	H
													H
													H
		4824	50.62	-23.38	74	72.97	31.3	9.62	63.27	100	286	P	V
		4824	48.02	-5.98	54	70.37	31.3	9.62	63.27	100	286	A	V
													V
													V
802.11b CH 06 2437MHz		4874	52.52	-21.48	74	74.86	31.3	9.61	63.25	100	119	P	H
		4874	50.34	-3.66	54	72.68	31.3	9.61	63.25	100	119	A	H
		7311	47.28	-26.72	74	60.15	36.2	11.66	60.73	100	0	P	H
													H
		4874	50.1	-23.9	74	72.44	31.3	9.61	63.25	100	290	P	V
		4874	47.39	-6.61	54	69.73	31.3	9.61	63.25	100	290	A	V
		7311	48.48	-25.52	74	61.35	36.2	11.66	60.73	100	0	P	V
													V
802.11b CH 11 2462MHz		4924	52.66	-21.34	74	74.93	31.37	9.59	63.23	100	118	P	H
		4924	50.37	-3.63	54	72.64	31.37	9.59	63.23	100	118	A	H
		7386	46.99	-27.01	74	59.46	36.5	11.67	60.64	100	0	P	H
													H
		4924	49.07	-24.93	74	71.34	31.37	9.59	63.23	100	293	P	V
		4924	47.01	-6.99	54	69.28	31.37	9.59	63.23	100	293	A	V
		7386	48.62	-25.38	74	61.09	36.5	11.67	60.64	100	0	P	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 (Band Edge @ 3m)

WIFI Ant.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11g CH 01 2412MHz		2389.8	64.34	-9.66	74	51.73	27.6	16.16	31.15	100	125	P	H
		2389.905	49.87	-4.13	54	37.26	27.6	16.16	31.15	100	125	A	H
	*	2412	105.47	-	-	92.82	27.6	16.18	31.13	100	125	P	H
	*	2412	97.97	-	-	85.32	27.6	16.18	31.13	100	125	A	H
													H
													H
		2389.695	63.03	-10.97	74	50.42	27.6	16.16	31.15	387	230	P	V
		2390	48.66	-5.34	54	36.05	27.6	16.16	31.15	387	230	A	V
	*	2412	104.05	-	-	91.4	27.6	16.18	31.13	387	230	P	V
	*	2412	96.41	-	-	83.76	27.6	16.18	31.13	387	230	A	V
													V
													V
802.11g CH 06 2437MHz		2311.26	54.46	-19.54	74	41.76	27.83	16.05	31.18	100	124	P	H
		2389.8	44.12	-9.88	54	31.51	27.6	16.16	31.15	100	124	A	H
	*	2437	107.23	-	-	94.54	27.6	16.21	31.12	100	124	P	H
	*	2437	99.92	-	-	87.23	27.6	16.21	31.12	100	124	A	H
		2483.76	54.92	-19.08	74	42.3	27.47	16.25	31.1	100	124	P	H
		2483.69	44.04	-9.96	54	31.42	27.47	16.25	31.1	100	124	A	H
		2389.94	54.09	-19.91	74	41.48	27.6	16.16	31.15	376	242	P	V
		2388.4	43.82	-10.18	54	31.22	27.6	16.15	31.15	376	242	A	V
	*	2437	106.55	-	-	93.86	27.6	16.21	31.12	376	242	P	V
	*	2437	99.16	-	-	86.47	27.6	16.21	31.12	376	242	A	V
		2492.65	53.48	-20.52	74	40.91	27.4	16.26	31.09	376	242	P	V
		2483.83	43.67	-10.33	54	31.05	27.47	16.25	31.1	376	242	A	V



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802.11g CH 11 2462MHz	*	2462	106.81	-	-	94.16	27.53	16.23	31.11	100	136	P	H
	*	2462	99.64	-	-	86.99	27.53	16.23	31.11	100	136	A	H
		2484.08	60.93	-13.07	74	48.31	27.47	16.25	31.1	100	136	P	H
		2483.52	49.74	-4.26	54	37.12	27.47	16.25	31.1	100	136	A	H
													H
													H
	*	2462	105.21	-	-	92.56	27.53	16.23	31.11	367	240	P	V
	*	2462	97.93	-	-	85.28	27.53	16.23	31.11	367	240	A	V
		2483.64	62.99	-11.01	74	50.37	27.47	16.25	31.1	367	240	P	V
		2483.52	48.85	-5.15	54	36.23	27.47	16.25	31.1	367	240	A	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz

WIFI 802.11g (Harmonic @ 3m)

WIFI Ant.	Note	Frequency	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)
802.11g CH 01 2412MHz		4824	46.32	-27.68	74	68.67	31.3	9.62	63.27	100	0	P	H
													H
													H
													H
		4824	44.77	-29.23	74	67.12	31.3	9.62	63.27	100	0	P	V
													V
													V
													V
802.11g CH 06 2437MHz		4874	46.89	-27.11	74	69.23	31.3	9.61	63.25	100	0	P	H
		7311	46.03	-27.97	74	58.9	36.2	11.66	60.73	100	0	P	H
													H
													H
		4874	43.55	-30.45	74	65.89	31.3	9.61	63.25	100	0	P	V
		7311	46.62	-27.38	74	59.49	36.2	11.66	60.73	100	0	P	V
													V
													V
802.11g CH 11 2462MHz		4924	44.15	-29.85	74	66.42	31.37	9.59	63.23	100	0	P	H
		7386	44.71	-29.29	74	57.18	36.5	11.67	60.64	100	0	P	H
													H
													H
		4924	41.24	-32.76	74	63.51	31.37	9.59	63.23	100	0	P	V
		7386	44.87	-29.13	74	57.34	36.5	11.67	60.64	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.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11n HT20 CH 01 2412MHz		2390	68.04	-5.96	74	55.43	27.6	16.16	31.15	100	122	P	H
		2390	50.73	-3.27	54	38.12	27.6	16.16	31.15	100	122	A	H
	*	2412	104.54	-	-	91.89	27.6	16.18	31.13	100	122	P	H
	*	2412	96.99	-	-	84.34	27.6	16.18	31.13	100	122	A	H
													H
													H
		2389.065	62.92	-11.08	74	50.31	27.6	16.16	31.15	389	234	P	V
		2390	49.41	-4.59	54	36.8	27.6	16.16	31.15	389	234	A	V
	*	2412	102.99	-	-	90.34	27.6	16.18	31.13	389	234	P	V
	*	2412	95.23	-	-	82.58	27.6	16.18	31.13	389	234	A	V
													V
													V
802.11n HT20 CH 06 2437MHz		2350.6	53.85	-20.15	74	41.2	27.7	16.11	31.16	100	126	P	H
		2386.02	43.98	-10.02	54	31.38	27.6	16.15	31.15	100	126	A	H
	*	2437	106.62	-	-	93.93	27.6	16.21	31.12	100	126	P	H
	*	2437	98.51	-	-	85.82	27.6	16.21	31.12	100	126	A	H
		2484.53	53.89	-20.11	74	41.27	27.47	16.25	31.1	100	126	P	H
		2484.18	43.95	-10.05	54	31.33	27.47	16.25	31.1	100	126	A	H
		2326.1	53.82	-20.18	74	41.16	27.77	16.07	31.18	376	240	P	V
		2324.14	43.81	-10.19	54	31.15	27.77	16.07	31.18	376	240	A	V
	*	2437	105.22	-	-	92.53	27.6	16.21	31.12	376	240	P	V
	*	2437	97.75	-	-	85.06	27.6	16.21	31.12	376	240	A	V
		2491.39	53.9	-20.1	74	41.33	27.4	16.26	31.09	376	240	P	V
		2483.5	43.73	-10.27	54	31.11	27.47	16.25	31.1	376	240	A	V



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802.11n HT20 CH 11 2462MHz	*	2462	105.78	-	-	93.13	27.53	16.23	31.11	100	123	P	H
	*	2462	98.45	-	-	85.8	27.53	16.23	31.11	100	123	A	H
		2484.32	63.32	-10.68	74	50.7	27.47	16.25	31.1	100	123	P	H
		2483.52	50.08	-3.92	54	37.46	27.47	16.25	31.1	100	123	A	H
													H
													H
	*	2462	104.05	-	-	91.4	27.53	16.23	31.11	367	229	P	V
	*	2462	96.97	-	-	84.32	27.53	16.23	31.11	367	229	A	V
		2484.12	61.82	-12.18	74	49.2	27.47	16.25	31.1	367	229	P	V
		2483.56	48.95	-5.05	54	36.33	27.47	16.25	31.1	367	229	A	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz

WIFI 802.11n HT20 (Harmonic @ 3m)

WIFI Ant.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11n HT20 CH 01 2412MHz		4824	44.37	-29.63	74	66.72	31.3	9.62	63.27	100	0	P	H
													H
													H
													H
		4824	44.97	-29.03	74	67.32	31.3	9.62	63.27	100	0	P	V
													V
													V
													V
802.11n HT20 CH 06 2437MHz		4874	44.63	-29.37	74	66.97	31.3	9.61	63.25	100	0	P	H
		7311	45.96	-28.04	74	58.83	36.2	11.66	60.73	100	0	P	H
													H
													H
		4874	42.12	-31.88	74	64.46	31.3	9.61	63.25	100	0	P	V
		7311	45.31	-28.69	74	58.18	36.2	11.66	60.73	100	0	P	V
													V
													V
802.11n HT20 CH 11 2462MHz		4924	44.8	-29.2	74	67.07	31.37	9.59	63.23	100	0	P	H
		7386	44.82	-29.18	74	57.29	36.5	11.67	60.64	100	0	P	H
													H
													H
		4924	41.17	-32.83	74	63.44	31.37	9.59	63.23	100	0	P	V
		7386	45.11	-28.89	74	57.58	36.5	11.67	60.64	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.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11n HT40 CH 03 2422MHz		2389.1	62.16	-11.84	74	49.55	27.6	16.16	31.15	378	272	P	H
		2389.94	50.59	-3.41	54	37.98	27.6	16.16	31.15	378	272	A	H
	*	2422	105.49	-	-	92.83	27.6	16.19	31.13	378	272	P	H
	*	2422	98.1	-	-	85.44	27.6	16.19	31.13	378	272	A	H
		2483.69	55.93	-18.07	74	43.31	27.47	16.25	31.1	378	272	P	H
		2484.18	45.03	-8.97	54	32.41	27.47	16.25	31.1	378	272	A	H
		2388.96	58.44	-15.56	74	45.83	27.6	16.16	31.15	381	238	P	V
		2389.8	48.94	-5.06	54	36.33	27.6	16.16	31.15	381	238	A	V
	*	2422	104.03	-	-	91.37	27.6	16.19	31.13	381	238	P	V
	*	2422	96.7	-	-	84.04	27.6	16.19	31.13	381	238	A	V
		2483.9	55.64	-18.36	74	43.02	27.47	16.25	31.1	381	238	P	V
		2484.32	44.9	-9.1	54	32.28	27.47	16.25	31.1	381	238	A	V
802.11n HT40 CH 06 2437MHz		2389.1	56.8	-17.2	74	44.19	27.6	16.16	31.15	377	274	P	H
		2389.8	47.27	-6.73	54	34.66	27.6	16.16	31.15	377	274	A	H
	*	2437	105.08	-	-	92.4	27.6	16.2	31.12	377	274	P	H
	*	2437	97.07	-	-	84.4	27.6	16.2	31.13	377	274	A	H
		2495.17	54.55	-19.45	74	41.97	27.4	16.27	31.09	377	274	P	H
		2483.5	45.95	-8.05	54	33.33	27.47	16.25	31.1	377	274	A	H
		2389.94	56.76	-17.24	74	44.15	27.6	16.16	31.15	380	240	P	V
		2389.52	46.13	-7.87	54	33.52	27.6	16.16	31.15	380	240	A	V
	*	2437	104.08	-	-	91.39	27.6	16.21	31.12	380	240	P	V
	*	2437	96.13	-	-	83.44	27.6	16.21	31.12	380	240	A	V
		2485.09	53.71	-20.29	74	41.08	27.47	16.26	31.1	380	240	P	V
		2483.76	46.05	-7.95	54	33.43	27.47	16.25	31.1	380	240	A	V



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802.11n HT40 CH 09 2452MHz		2348.22	53.3	-20.7	74	40.67	27.7	16.1	31.17	370	270	P	H
		2376.5	44.69	-9.31	54	32.07	27.63	16.14	31.15	370	270	A	H
	*	2452	102.44	-	-	89.73	27.6	16.22	31.11	370	270	P	H
	*	2452	94.64	-	-	81.93	27.6	16.22	31.11	370	270	A	H
		2483.55	63.62	-10.38	74	51	27.47	16.25	31.1	370	270	P	H
		2483.76	50.35	-3.65	54	37.73	27.47	16.25	31.1	370	270	A	H
		2320.5	54.71	-19.29	74	42.05	27.77	16.07	31.18	365	228	P	V
		2356.9	44.66	-9.34	54	32.04	27.67	16.11	31.16	365	228	A	V
	*	2452	99.85	-	-	87.14	27.6	16.22	31.11	365	228	P	V
	*	2452	92.58	-	-	79.87	27.6	16.22	31.11	365	228	A	V
		2483.83	62.7	-11.3	74	50.08	27.47	16.25	31.1	365	228	P	V
		2483.5	49.38	-4.62	54	36.76	27.47	16.25	31.1	365	228	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.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11n HT40 CH 03 2422MHz		4844	42.3	-31.7	74	64.65	31.3	9.61	63.26	100	0	P	H
		7266	45.39	-28.61	74	58.31	36.2	11.66	60.78	100	0	P	H
													H
													H
		4844	40.91	-33.09	74	63.26	31.3	9.61	63.26	100	0	P	V
		7266	45.44	-28.56	74	58.36	36.2	11.66	60.78	100	0	P	V
													V
													V
802.11n HT40 CH 06 2437MHz		4904	40.8	-33.2	74	63.12	31.33	9.59	63.24	100	0	P	H
		7356	44.92	-29.08	74	57.62	36.3	11.67	60.67	100	0	P	H
													H
													H
		4904	40.56	-33.44	74	62.88	31.33	9.59	63.24	100	0	P	V
		7356	45.63	-28.37	74	58.33	36.3	11.67	60.67	100	0	P	V
													V
													V
802.11n HT40 CH 09 2452MHz		4904	41.42	-32.58	74	63.74	31.33	9.59	63.24	100	0	P	H
		7356	45.28	-28.72	74	57.98	36.3	11.67	60.67	100	0	P	H
													H
													H
		4904	40.94	-33.06	74	63.26	31.33	9.59	63.24	100	0	P	V
		7356	45.22	-28.78	74	57.92	36.3	11.67	60.67	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

Emission below 1GHz

2.4GHz WIFI 802.11n HT20 (LF)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
2.4GHz 802.11n HT20 LF		86.26	21.56	-18.44	40	38.58	14.23	1.28	32.53	-	-	P	H
		99.84	22.95	-20.55	43.5	38.15	15.97	1.34	32.51	-	-	P	H
		189.08	28.2	-15.3	43.5	43.96	14.8	1.93	32.49	-	-	P	H
		256.01	27.64	-18.36	46	38.64	19.36	2.16	32.52	-	-	P	H
		296.75	31.06	-14.94	46	42.09	19.24	2.27	32.54	-	-	P	H
		332.64	32.06	-13.94	46	42.32	19.91	2.37	32.54	100	0	P	H
													H
													H
													H
													H
													H
													H
		44.55	29.02	-10.98	40	43.52	17.23	0.87	32.6	-	-	P	V
		63.95	27.98	-12.02	40	47.47	11.99	1.09	32.57	-	-	P	V
		139.61	25.05	-18.45	43.5	38.36	17.6	1.59	32.5	-	-	P	V
		189.08	24.08	-19.42	43.5	39.84	14.8	1.93	32.49	-	-	P	V
		296.75	29.3	-16.7	46	40.33	19.24	2.27	32.54	-	-	P	V
		903.97	38.22	-7.78	46	36.81	29.06	3.97	31.62	100	0	P	V
													V
													V
													V
													V
													V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against limit line.												



2.4GHz 2400~2483.5MHz

WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11n HT20 CH 01 2412MHz		2390	63.53	-10.47	74	50.92	27.6	16.16	31.15	100	146	P	H
		2389.905	50.85	-3.15	54	38.24	27.6	16.16	31.15	100	146	A	H
	*	2412	104.9	-	-	92.25	27.6	16.18	31.13	100	146	P	H
	*	2412	97.49	-	-	84.84	27.6	16.18	31.13	100	146	A	H
													H
													H
		2389.905	57.62	-16.38	74	45.01	27.6	16.16	31.15	373	307	P	V
		2390	46.78	-7.22	54	34.17	27.6	16.16	31.15	373	307	A	V
	*	2412	101.28	-	-	88.63	27.6	16.18	31.13	373	307	P	V
	*	2412	93.74	-	-	81.09	27.6	16.18	31.13	373	307	A	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz

WIFI 802.11n HT20 (Harmonic @ 3m)

WIFI Ant.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11n HT20 CH 01 2412MHz		4824	46.84	-27.16	74	69.19	31.3	9.62	63.27	100	0	P	H
													H
													H
													H
		4824	43.49	-30.51	74	65.84	31.3	9.62	63.27	100	0	P	V
													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

Emission below 1GHz

2.4GHz WIFI 802.11n HT20 (LF)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
2.4GHz 802.11n HT20 LF		64.92	27.05	-12.95	40	46.52	12	1.1	32.57	-	-	P	H
		163.86	27.26	-16.24	43.5	41.84	16.11	1.81	32.5	-	-	P	H
		188.11	28.85	-14.65	43.5	44.62	14.8	1.92	32.49	-	-	P	H
		296.75	31.92	-14.08	46	42.95	19.24	2.27	32.54	-	-	P	H
		332.64	31.95	-14.05	46	42.21	19.91	2.37	32.54	-	-	P	H
		716.76	33.2	-12.8	46	35.1	27.01	3.46	32.37	100	0	P	H
													H
													H
													H
													H
													H
													H
		43.58	29.41	-10.59	40	43.36	17.79	0.86	32.6	-	-	P	V
		70.74	29.83	-10.17	40	48.8	12.45	1.14	32.56	100	0	P	V
		117.3	27.66	-15.84	43.5	41.32	17.43	1.42	32.51	-	-	P	V
		134.76	25.79	-17.71	43.5	39.04	17.7	1.55	32.5	-	-	P	V
		188.11	24.54	-18.96	43.5	40.31	14.8	1.92	32.49	-	-	P	V
		296.75	29.29	-16.71	46	40.32	19.24	2.27	32.54	-	-	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	Peak or Average
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

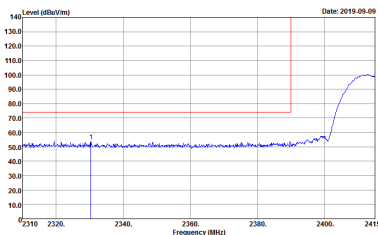
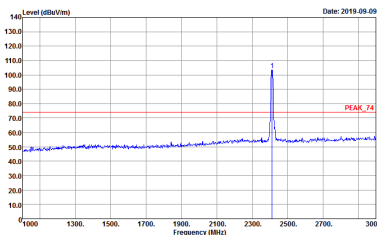
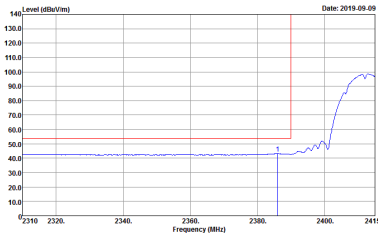
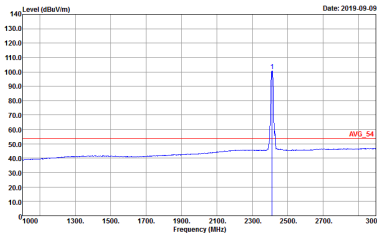
Test Engineer :	Leo Liao, Karl Hou and Bigshow Wang	Temperature :	23~26°C
		Relative Humidity :	50~65%

Note symbol

-L	Low channel location
-R	High channel location



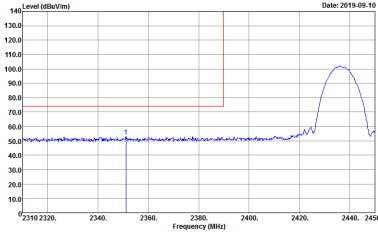
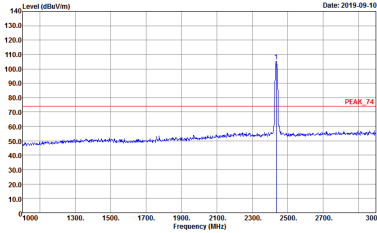
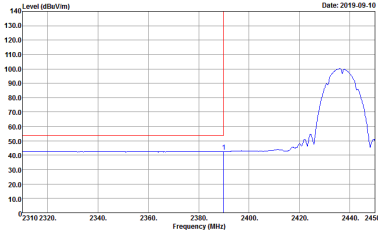
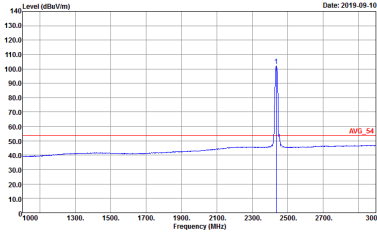
2.4GHz 2400~2483.5MHz
WIFI 802.11b (Band Edge @ 3m)

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 : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : 961832</p>	 <p>Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : 961832</p>
Avg.	 <p>Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_15_1620 HORIZONTAL Detector : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Project : 961832</p>	 <p>Site : 03CH15-HY Condition : AVG_54 3m 91200_15_1620 HORIZONTAL Detector : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Project : 961832</p>

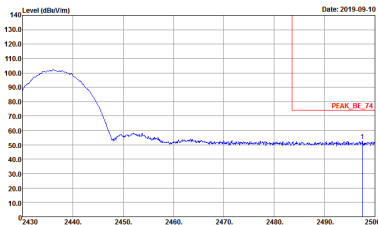
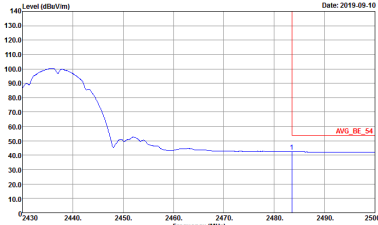


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH01 2412MHz	
1	Vertical	Fundamental
Peak	<div><p>Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_15_1620 VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak 961832</p></div>	<div><p>Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak 961832</p></div>
Avg.	<div><p>Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_15_1620 VERTICAL Detector : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Project : Avg. 961832</p></div>	<div><p>Site : 03CH15-HY Condition : AVG_54 3m 91200_15_1620 VERTICAL Detector : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Project : Avg. 961832</p></div>

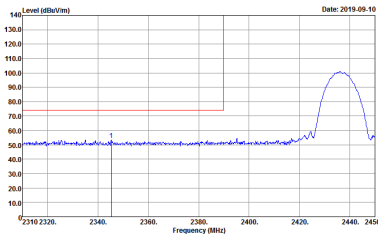
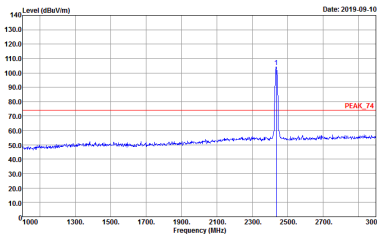
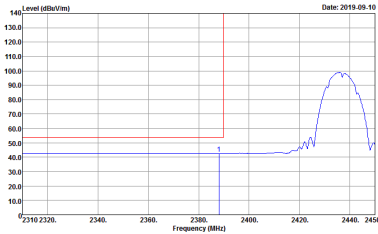
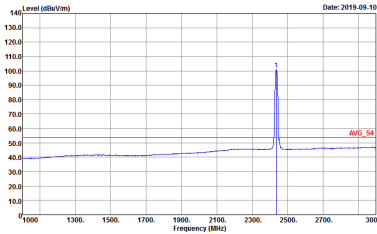


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH06 2437MHz - L	
1	Horizontal	Fundamental
Peak	<div><p>Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_15_1620 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Project : 961832</p></div>	<div><p>Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Project : 961832</p></div>
Avg.	<div><p>Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_15_1620 HORIZONTAL Detector : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Project : Avg Project : 961832</p></div>	<div><p>Site : 03CH15-HY Condition : AVG_54 3m 91200_15_1620 HORIZONTAL Detector : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Project : Avg Project : 961832</p></div>

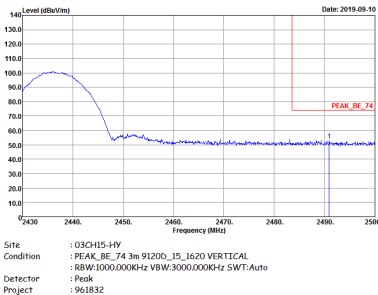
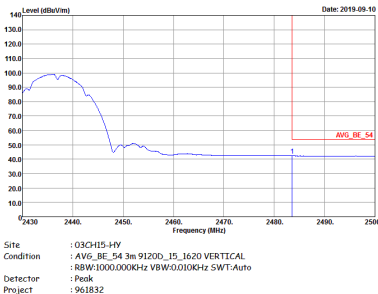


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH06 2437MHz - R	
1	Horizontal	Fundamental
Peak	 <p> Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_15_1620 HORIZONTAL Detector : Peak Project : 961832 </p>	Left blank
Avg.	 <p> Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_15_1620 HORIZONTAL Detector : Peak Project : 961832 </p>	Left blank

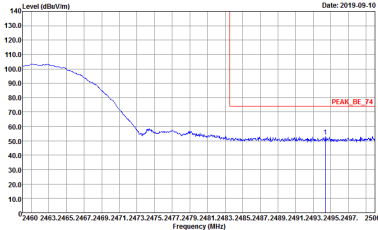
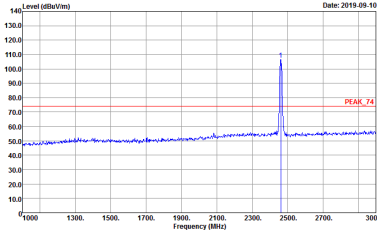
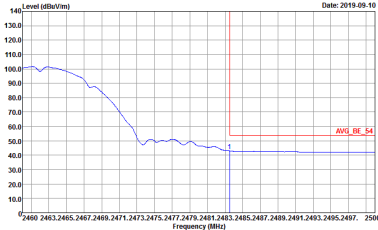
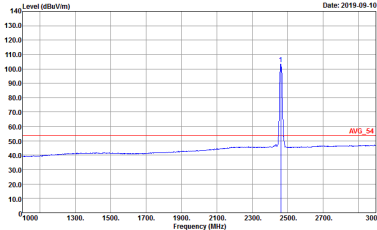


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH06 2437MHz - L	
1	Vertical	Fundamental
Peak	 <p>Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_15_1620 VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : 961832</p>	 <p>Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : 961832</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 : 961832</p>	 <p>Site : 03CH15-HY Condition : AVG_54 3m 91200_15_1620 VERTICAL Detector : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Project : 961832</p>

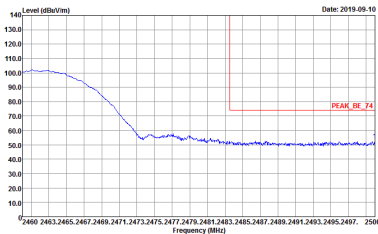
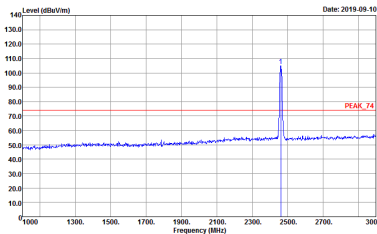
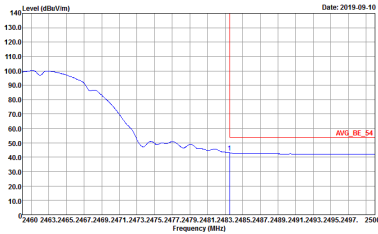
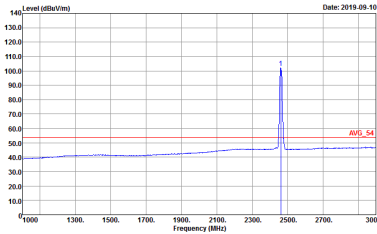


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH06 2437MHz - R	
1	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank



WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH11 2462MHz	
1	Horizontal	Fundamental
Peak	<div><p>Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_15_1620 HORIZONTAL Detector : Peak Project : 961832</p></div>	<div><p>Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 HORIZONTAL Detector : Peak Project : 961832</p></div>
Avg.	<div><p>Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_15_1620 HORIZONTAL Detector : Peak Project : 961832</p></div>	<div><p>Site : 03CH15-HY Condition : AVG_54 3m 91200_15_1620 HORIZONTAL Detector : Peak Project : 961832</p></div>



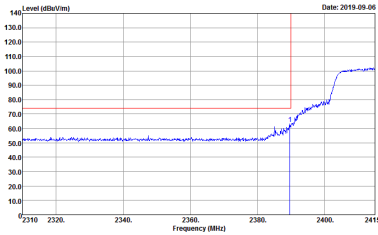
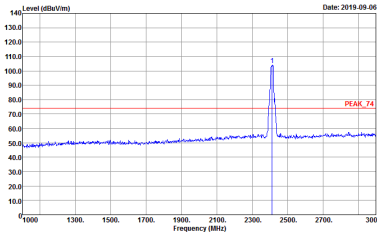
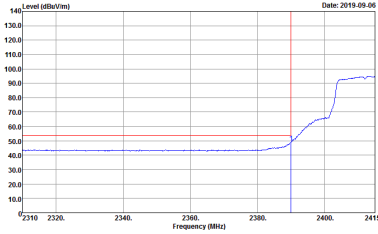
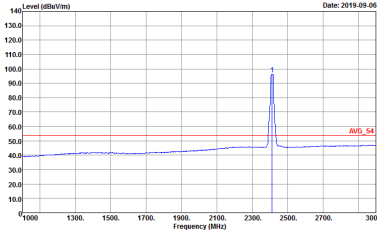
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH11 2462MHz	
1	Vertical	Fundamental
Peak	 <p>Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_15_1620 VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 961832</p>	 <p>Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 961832</p>
Avg.	 <p>Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_15_1620 VERTICAL Detector : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 961832</p>	 <p>Site : 03CH15-HY Condition : AVG_54 3m 91200_15_1620 VERTICAL Detector : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 961832</p>



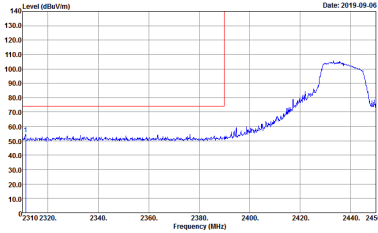
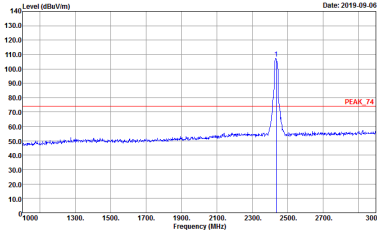
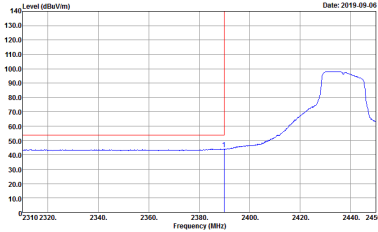
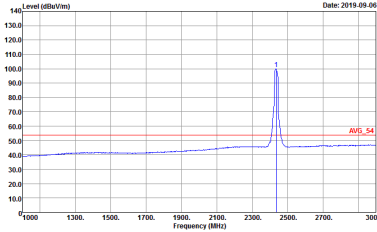
2.4GHz 2400~2483.5MHz
WIFI 802.11g (Band Edge @ 3m)

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 RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 961832 Setting : 18</p>	<p>Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 961832 Setting : 18</p>
Avg.	<p>Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_15_1620 HORIZONTAL RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 961832 Setting : 18</p>	<p>Site : 03CH15-HY Condition : AVG_54 3m 91200_15_1620 HORIZONTAL RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 961832 Setting : 18</p>

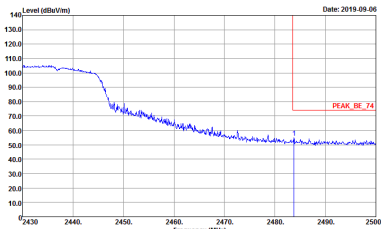
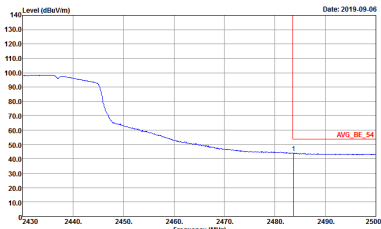


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH01 2412MHz	
1	Vertical	Fundamental
Peak	<div><p>Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_15_1620 VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 961832 Setting : 18</p></div>	<div><p>Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 961832 Setting : 18</p></div>
Avg.	<div><p>Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_15_1620 VERTICAL Detector : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 961832 Setting : 18</p></div>	<div><p>Site : 03CH15-HY Condition : AVG_54 3m 91200_15_1620 VERTICAL Detector : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 961832 Setting : 18</p></div>

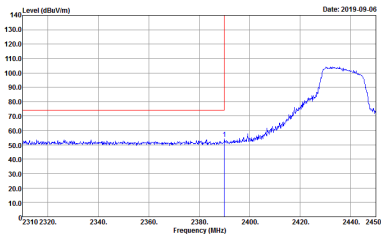
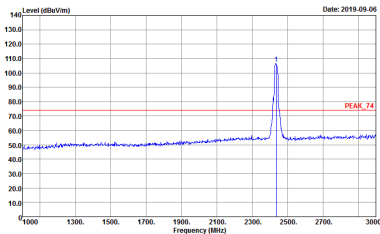
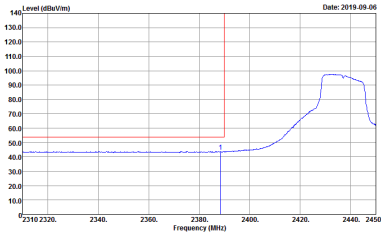
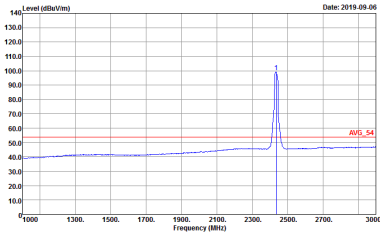


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH06 2437MHz - L	
1	Horizontal	Fundamental
Peak	<div><p>Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_15_1620 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 961832</p></div>	<div><p>Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 961832</p></div>
Avg.	<div><p>Site : 03CH15-HY Condition : AV6_BE_54 3m 91200_15_1620 HORIZONTAL RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 961832</p></div>	<div><p>Site : 03CH15-HY Condition : AV6_54 3m 91200_15_1620 HORIZONTAL RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 961832</p></div>

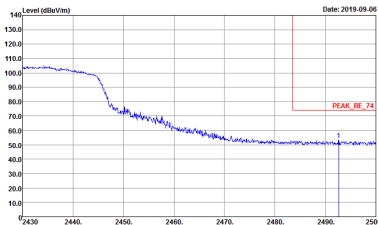
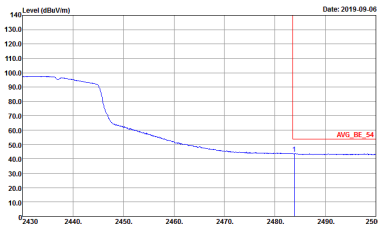


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH06 2437MHz - R	
1	Horizontal	Fundamental
Peak	 <p> Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_15_1620 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : 961832 </p>	Left blank
Avg.	 <p> Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_15_1620 HORIZONTAL Detector : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Project : 961832 </p>	Left blank

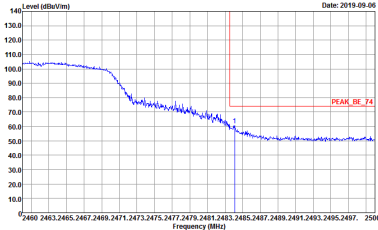
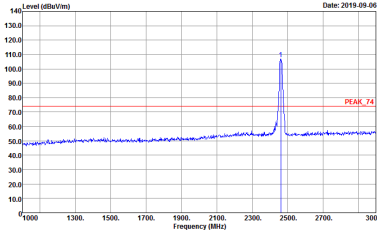
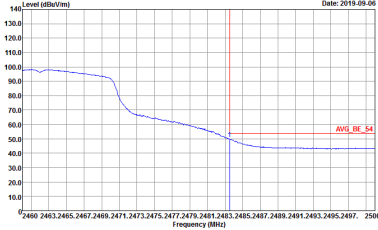
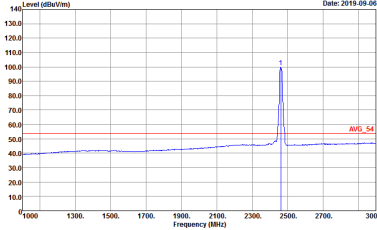


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH06 2437MHz - L	
1	Vertical	Fundamental
Peak	<div><p>Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_15_1620 VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : 961832</p></div>	<div><p>Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : 961832</p></div>
Avg.	<div><p>Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_15_1620 VERTICAL Detector : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Project : 961832</p></div>	<div><p>Site : 03CH15-HY Condition : AVG_54 3m 91200_15_1620 VERTICAL Detector : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Project : 961832</p></div>

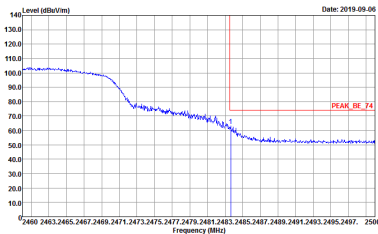
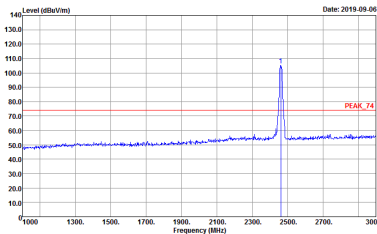
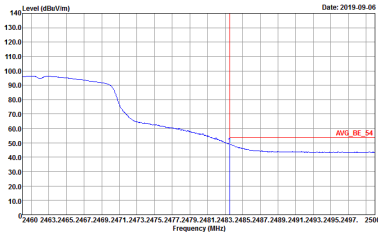
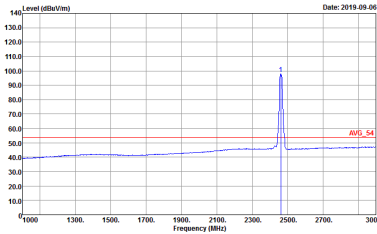


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH06 2437MHz - R	
1	Vertical	Fundamental
Peak	 <p>Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_15_1620 VERTICAL Detector : Peak Project : 961832</p>	Left Blank
Avg.	 <p>Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_15_1620 VERTICAL Detector : Peak Project : 961832</p>	Left Blank

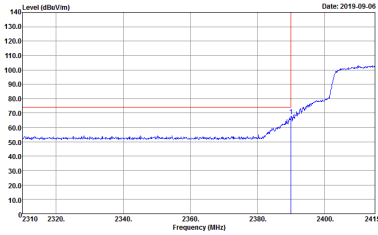
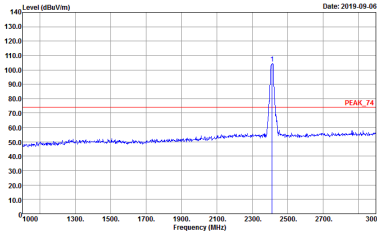
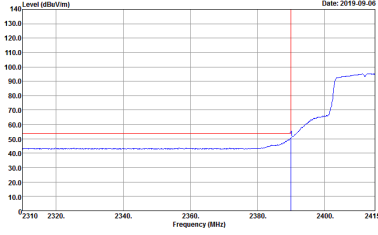
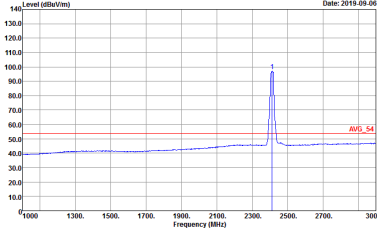


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH11 2462MHz	
1	Horizontal	Fundamental
Peak	<div><p>Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_15_1620 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 961832 Setting : 18.5</p></div>	<div><p>Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 961832 Setting : 18.5</p></div>
Avg.	<div><p>Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_15_1620 HORIZONTAL RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 961832 Setting : 18.5</p></div>	<div><p>Site : 03CH15-HY Condition : AVG_54 3m 91200_15_1620 HORIZONTAL RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 961832 Setting : 18.5</p></div>

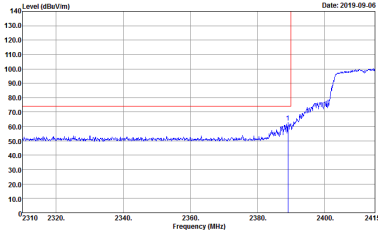
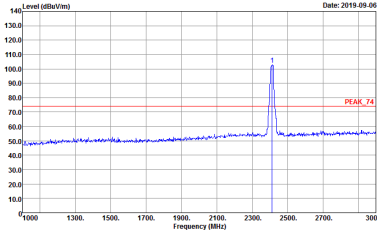
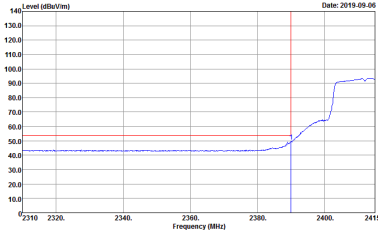
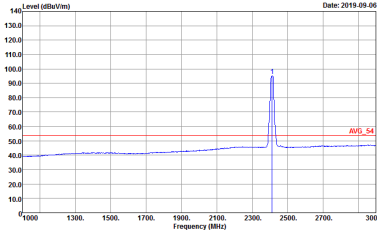


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH11 2462MHz	
1	Vertical	Fundamental
Peak	<div><p>Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_15_1620 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 961832 Setting : 18.5</p></div>	<div><p>Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 961832 Setting : 18.5</p></div>
Avg.	<div><p>Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_15_1620 VERTICAL RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 961832 Setting : 18.5</p></div>	<div><p>Site : 03CH15-HY Condition : AVG_54 3m 91200_15_1620 VERTICAL RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 961832 Setting : 18.5</p></div>

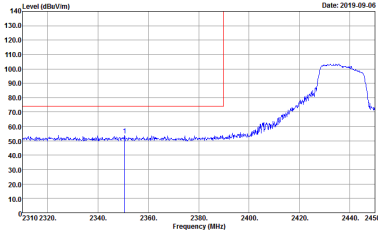
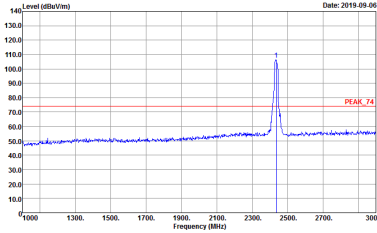
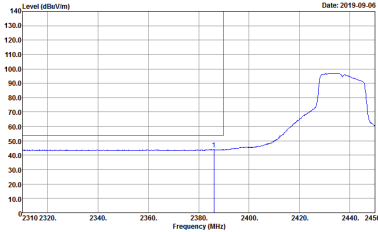
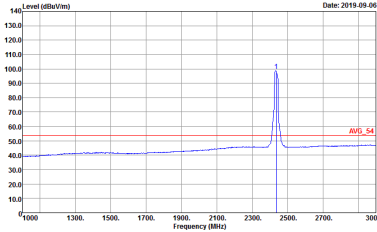
2.4GHz 2400~2483.5MHz
WIFI 802.11n HT20 (Band Edge @ 3m)

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 RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 961832 Setting : 17.5</p>	 <p>Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 961832 Setting : 17.5</p>
Avg.	 <p>Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_15_1620 HORIZONTAL RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 961832 Setting : 17.5</p>	 <p>Site : 03CH15-HY Condition : AVG_54 3m 91200_15_1620 HORIZONTAL RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 961832 Setting : 17.5</p>

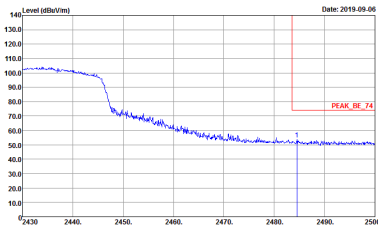
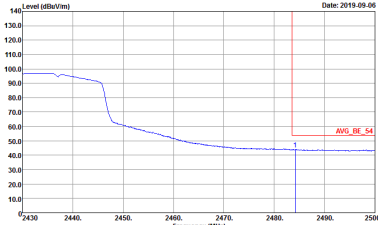


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH01 2412MHz	
1	Vertical	Fundamental
Peak	<div><p>Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_15_1620 VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 961832 Setting : 17.5</p></div>	<div><p>Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 961832 Setting : 17.5</p></div>
Avg.	<div><p>Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_15_1620 VERTICAL Detector : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 961832 Setting : 17.5</p></div>	<div><p>Site : 03CH15-HY Condition : AVG_54 3m 91200_15_1620 VERTICAL Detector : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 961832 Setting : 17.5</p></div>

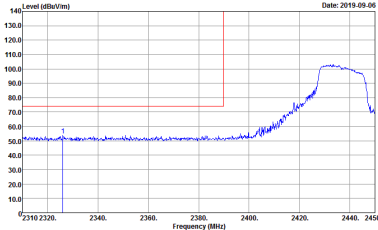
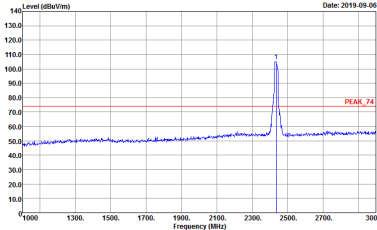
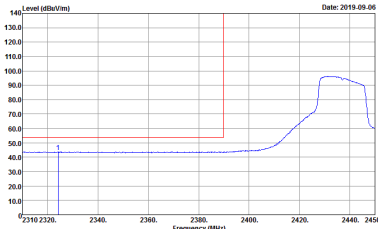
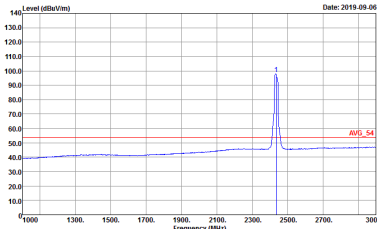


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH06 2437MHz - L	
1	Horizontal	Fundamental
Peak	<div><p>Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_15_1620 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Project : 961832</p></div>	<div><p>Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Project : 961832</p></div>
Avg.	<div><p>Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_15_1620 HORIZONTAL Detector : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Project : Peak Project : 961832</p></div>	<div><p>Site : 03CH15-HY Condition : AVG_54 3m 91200_15_1620 HORIZONTAL Detector : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Project : Peak Project : 961832</p></div>



WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH06 2437MHz - R	
1	Horizontal	Fundamental
Peak	 <p> Date: 2019.09.06 Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_15_1620 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak : 961832 </p>	Left blank
Avg.	 <p> Date: 2019.09.06 Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_15_1620 HORIZONTAL Detector : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Project : Peak : 961832 </p>	Left blank

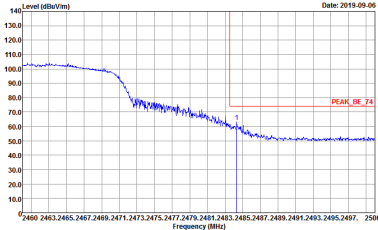
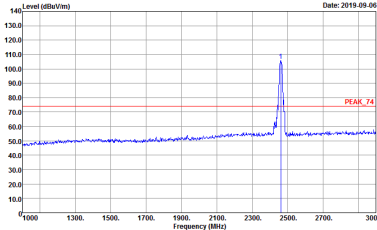
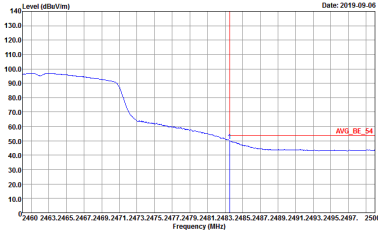
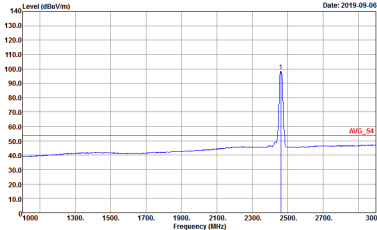


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH06 2437MHz - L	
1	Vertical	Fundamental
Peak	<div><p>Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_15_1620 VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Project : 961832</p></div>	<div><p>Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Project : 961832</p></div>
Avg.	<div><p>Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_15_1620 VERTICAL Detector : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Project : Peak Project : 961832</p></div>	<div><p>Site : 03CH15-HY Condition : AVG_54 3m 91200_15_1620 VERTICAL Detector : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Project : Peak Project : 961832</p></div>

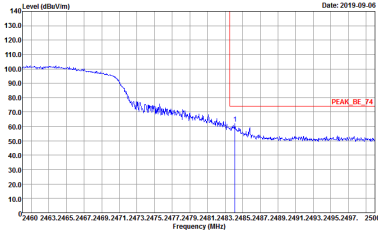
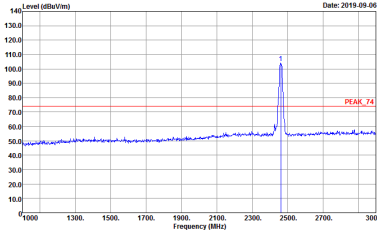
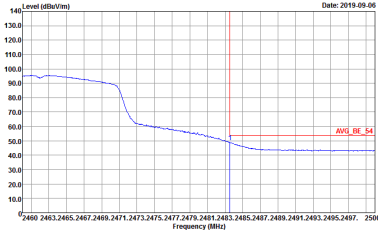
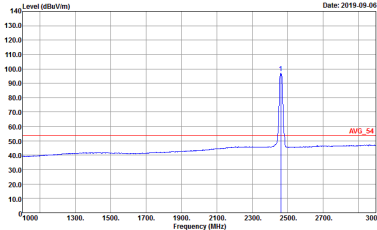


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH06 2437MHz - R	
1	Vertical	Fundamental
Peak	<p> Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_15_1620 VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak : 961832 </p>	Left Blank
Avg.	<p> Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_15_1620 VERTICAL Detector : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Project : Peak : 961832 </p>	Left Blank

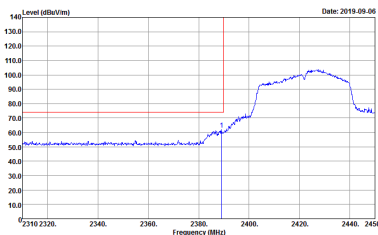
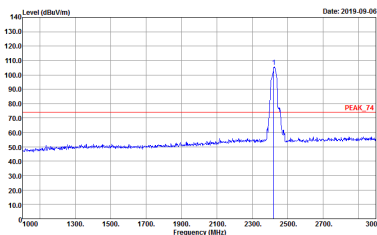
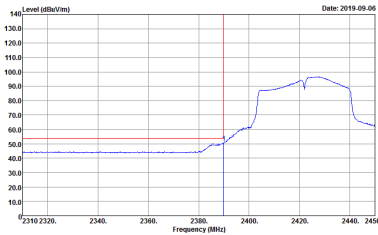
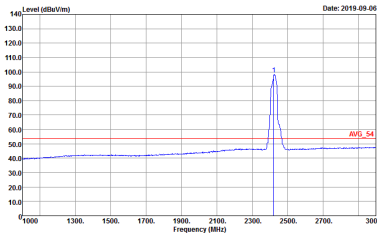


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH11 2462MHz	
1	Horizontal	Fundamental
Peak	 <p>Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_15_1620 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Project : 961832</p>	 <p>Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Project : 961832</p>
Avg.	 <p>Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_15_1620 HORIZONTAL Detector : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Project : Peak Project : 961832</p>	 <p>Site : 03CH15-HY Condition : AVG_54 3m 91200_15_1620 HORIZONTAL Detector : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Project : Peak Project : 961832</p>

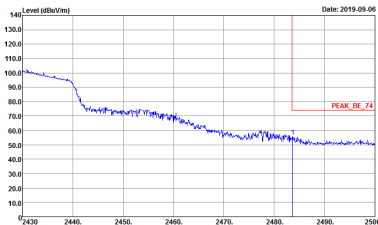
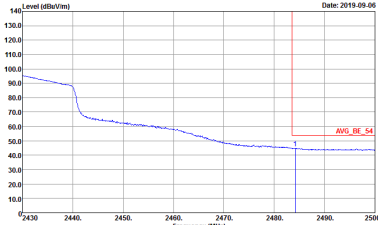


WIFI	2.4GHz 2400~2483.5MHz Fundamental @ 3m	
ANT	802.11n HT20 CH11 2462MHz	
1	Vertical	Fundamental
Peak	<div><p>Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_15_1620 VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Project : 961832</p></div>	<div><p>Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Project : 961832</p></div>
Avg.	<div><p>Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_15_1620 VERTICAL Detector : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Project : Peak Project : 961832</p></div>	<div><p>Site : 03CH15-HY Condition : AVG_54 3m 91200_15_1620 VERTICAL Detector : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Project : Peak Project : 961832</p></div>

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 RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 961832</p>	 <p>Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 961832</p>
Avg.	 <p>Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_15_1620 HORIZONTAL RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 961832</p>	 <p>Site : 03CH15-HY Condition : AVG_54 3m 91200_15_1620 HORIZONTAL RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 961832</p>

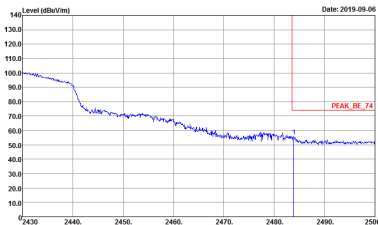
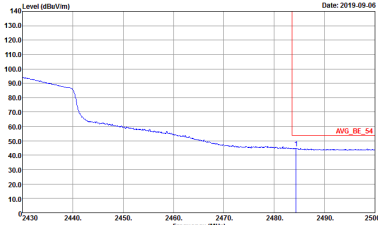


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH03 2422MHz - R	
1	Horizontal	Fundamental
Peak	 <p> Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_15_1620 HORIZONTAL Detector : Peak Project : 961832 </p>	Left Blank
Avg.	 <p> Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_15_1620 HORIZONTAL Detector : Peak Project : 961832 </p>	Left Blank

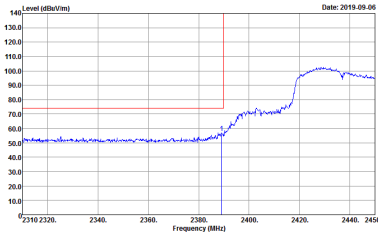
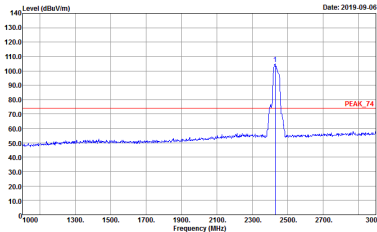
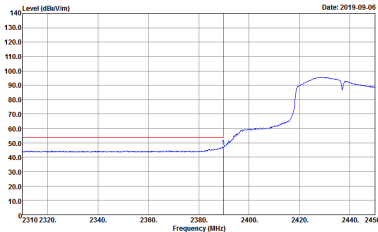
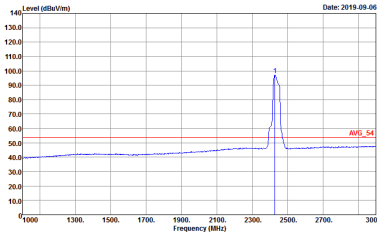


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH03 2422MHz - L	
1	Vertical	Fundamental
Peak	<div><p>Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_15_1620 VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak 961832</p></div>	<div><p>Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak 961832</p></div>
Avg.	<div><p>Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_15_1620 VERTICAL Detector : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Project : Avg. 961832</p></div>	<div><p>Site : 03CH15-HY Condition : AVG_54 3m 91200_15_1620 VERTICAL Detector : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Project : Avg. 961832</p></div>

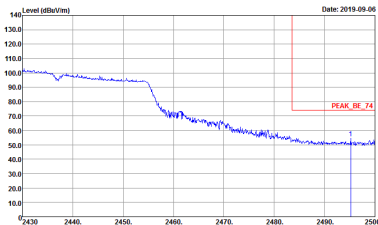
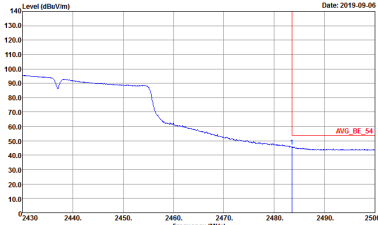


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH03 2422MHz - R	
1	Vertical	Fundamental
Peak	 <p> Date: 2019.09.06 Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_15_1620 VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak : 961832 </p>	Left blank
Avg.	 <p> Date: 2019.09.06 Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_15_1620 VERTICAL Detector : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Project : Peak : 961832 </p>	Left blank



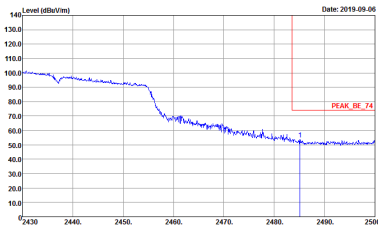
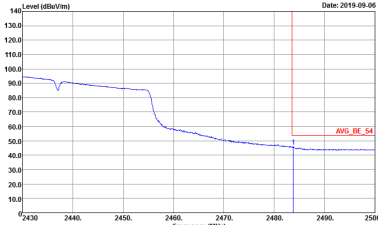
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH06 2437MHz - L	
1	Horizontal	Fundamental
Peak	<div><p>Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_15_1620 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak 961832</p></div>	<div><p>Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak 961832</p></div>
Avg.	<div><p>Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_15_1620 HORIZONTAL Detector : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Project : Avg. 961832</p></div>	<div><p>Site : 03CH15-HY Condition : AVG_54 3m 91200_15_1620 HORIZONTAL Detector : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Project : Peak 961832</p></div>



WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH06 2437MHz - R	
1	Horizontal	Fundamental
Peak	 <p> Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_15_1620 HORIZONTAL Detector : Peak Project : 961832 </p>	Left blank
Avg.	 <p> Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_15_1620 HORIZONTAL Detector : Peak Project : 961832 </p>	Left blank



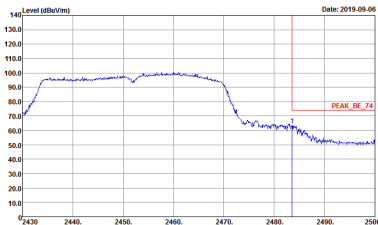
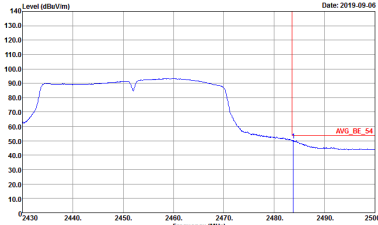
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH06 2437MHz - L	
1	Vertical	Fundamental
Peak	<div><p>Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_15_1620 VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : 961832</p></div>	<div><p>Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : 961832</p></div>
Avg.	<div><p>Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_15_1620 VERTICAL Detector : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Project : 961832</p></div>	<div><p>Site : 03CH15-HY Condition : AVG_54 3m 91200_15_1620 VERTICAL Detector : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Project : 961832</p></div>

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH06 2437MHz - R	
1	Horizontal	Fundamental
Peak	 <p> Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_15_1620 VERTICAL Detector : Peak Project : 961832 </p>	Left blank
Avg.	 <p> Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_15_1620 VERTICAL Detector : Peak Project : 961832 </p>	Left blank

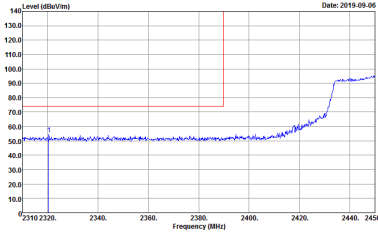
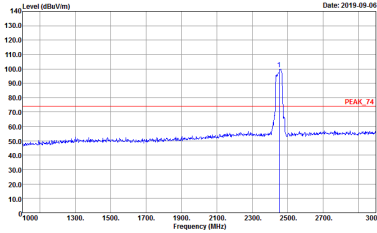
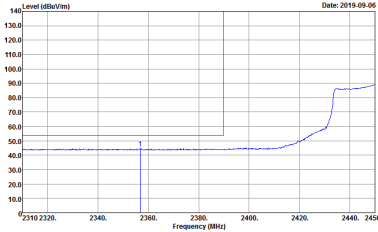
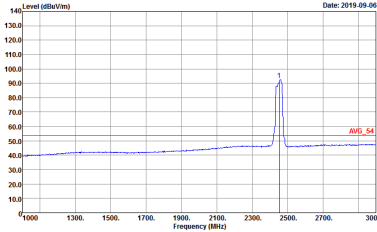


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH09 2452MHz - L	
1	Horizontal	Fundamental
Peak	<p>Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_15_1620 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 961832 Setting : 15.5</p>	<p>Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 961832 Setting : 15.5</p>
Avg.	<p>Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_15_1620 HORIZONTAL Detector : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 961832 Setting : 15.5</p>	<p>Site : 03CH15-HY Condition : AVG_54 3m 91200_15_1620 HORIZONTAL Detector : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 961832 Setting : 15.5</p>

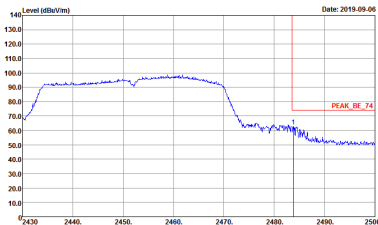
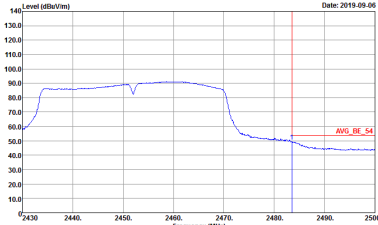


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH09 2452MHz - R	
1	Horizontal	Fundamental
Peak	 <p> Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_15_1620 HORIZONTAL Detector : Peak Project : 961832 Setting : 15.5 </p>	Left blank
Avg.	 <p> Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_15_1620 HORIZONTAL Detector : Peak Project : 961832 Setting : 15.5 </p>	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 Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 961832 Setting : 15.5</p></div>	<div><p>Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 961832 Setting : 15.5</p></div>
Avg.	<div><p>Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_15_1620 VERTICAL Detector : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 961832 Setting : 15.5</p></div>	<div><p>Site : 03CH15-HY Condition : AVG_54 3m 91200_15_1620 VERTICAL Detector : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 961832 Setting : 15.5</p></div>

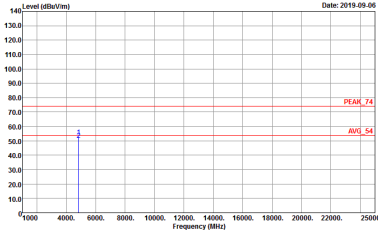
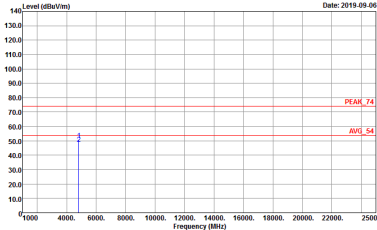


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH09 2452MHz - R	
1	Vertical	Fundamental
Peak	 <p> Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_15_1620 VERTICAL Detector : Peak Project : 961832 Setting : 15.5 </p>	Left blank
Avg.	 <p> Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_15_1620 VERTICAL Detector : Peak Project : 961832 Setting : 15.5 </p>	Left blank

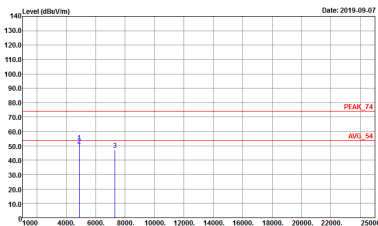
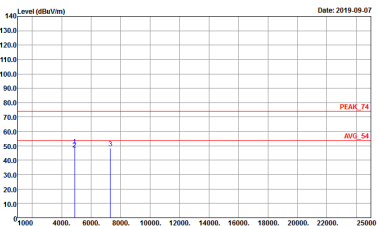


2.4GHz 2400~2483.5MHz

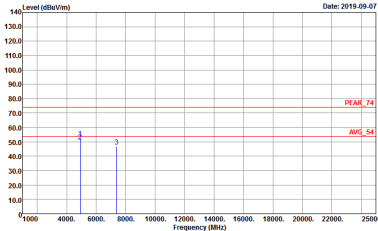
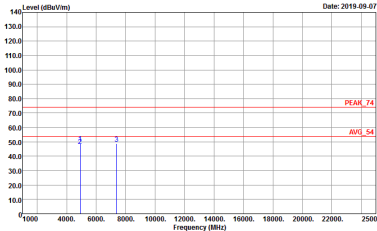
WIFI 802.11b (Harmonic @ 3m)

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 : 961832 Setting : 18</p>	 <p>Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 VERTICAL Detector : Peak Project : 961832 Setting : 18</p>



WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11b CH06 2437MHz	
1	Horizontal	Vertical
Peak Avg.	<div><p>Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 HORIZONTAL Detector : Peak Project : 961832 Setting : 19</p></div>	<div><p>Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 VERTICAL Detector : Peak Project : 961832 Setting : 19</p></div>

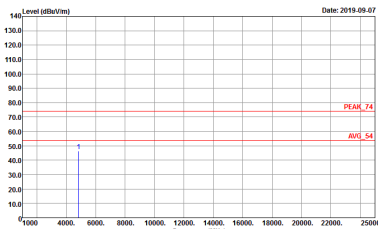
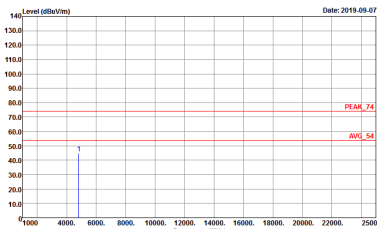


WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11b CH11 2462MHz	
1	Horizontal	Vertical
Peak Avg.	<div><p>Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 HORIZONTAL Detector : Peak Project : 961832 Setting : 20.5</p></div>	<div><p>Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 VERTICAL Detector : Peak Project : 961832 Setting : 20.5</p></div>

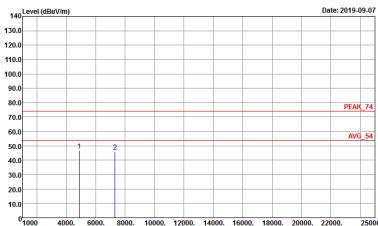
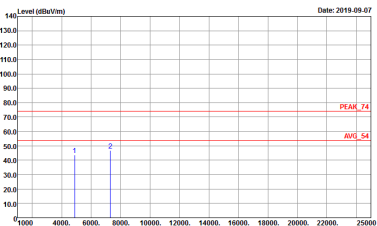


2.4GHz 2400~2483.5MHz

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 : 961832</p>	 <p>Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 VERTICAL Detector : Peak Project : 961832</p>



WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11g CH06 2437MHz	
1	Horizontal	Vertical
Peak Avg.	<div><p>Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 HORIZONTAL Detector : Peak Project : 961832</p></div>	<div><p>Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 VERTICAL Detector : Peak Project : 961832</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 : 961832</p></div>	<div><p>Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 VERTICAL Detector : Peak Project : 961832</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 : 961832</p>	<p>Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 VERTICAL Detector : Peak Project : 961832</p>



WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11n HT20 CH06 2437MHz	
1	Horizontal	Vertical
Peak Avg.	<p>Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 HORIZONTAL Detector : Peak Project : 961832</p>	<p>Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 VERTICAL Detector : Peak Project : 961832</p>



WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11n HT20 CH11 2462MHz	
1	Horizontal	Vertical
Peak Avg.	<div><p>Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 HORIZONTAL Detector : Peak Project : 961832</p></div>	<div><p>Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 VERTICAL Detector : Peak Project : 961832</p></div>



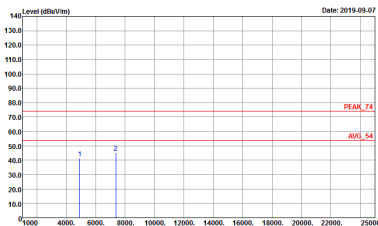
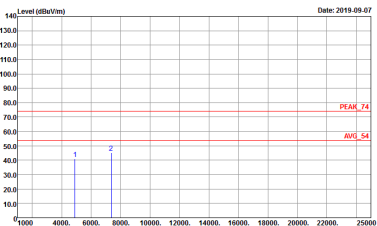
2.4GHz 2400~2483.5MHz
WIFI 802.11n HT40 (Harmonic @ 3m)

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 : 961832</p>	<p>Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 VERTICAL Detector : Peak Project : 961832</p>

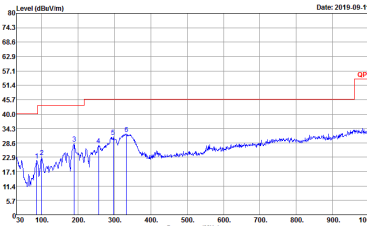
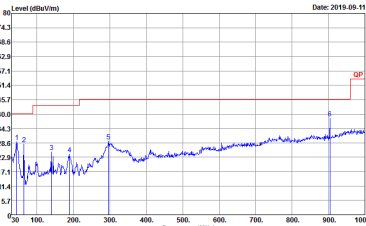


WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11n HT40 CH06 2437MHz	
1	Horizontal	Vertical
Peak Avg.	<div><p>Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 HORIZONTAL Detector : Peak Project : 961832</p></div>	<div><p>Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 VERTICAL Detector : Peak Project : 961832</p></div>

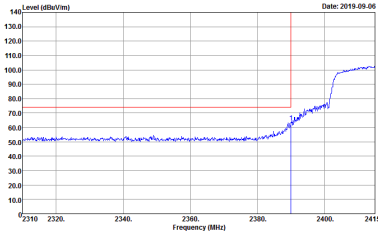
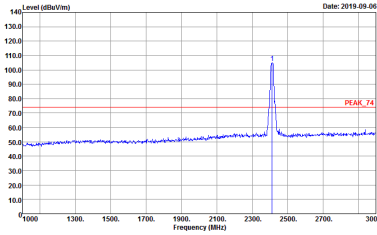
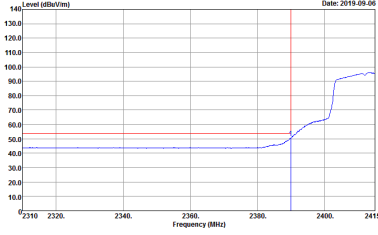
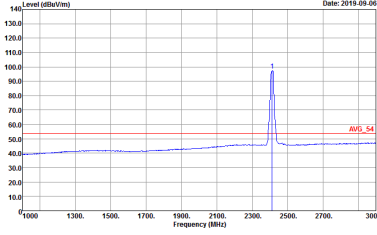


WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11n HT40 CH09 2452MHz	
1	Horizontal	Vertical
Peak Avg.	<div><p>Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 HORIZONTAL Detector : Peak Project : 961832</p></div>	<div><p>Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 VERTICAL Detector : Peak Project : 961832</p></div>

Emission below 1GHz
2.4GHz WIFI 802.11n HT20 (LF)

WIFI	2.4GHz 2400~2483.5MHz	
ANT	802.11n HT20 LF	
1	Horizontal	Vertical
QP / Peak	 <p>Site : 03CH15-HY Condition : QP 3m B1LOG_15_41912 HORIZONTAL Detector : Peak Project : 961832</p>	 <p>Site : 03CH15-HY Condition : QP 3m B1LOG_15_41912 VERTICAL Detector : Peak Project : 961832</p>

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

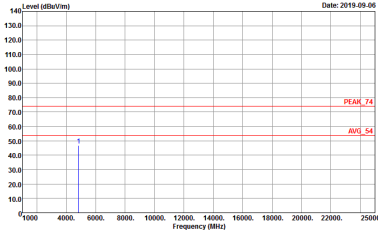
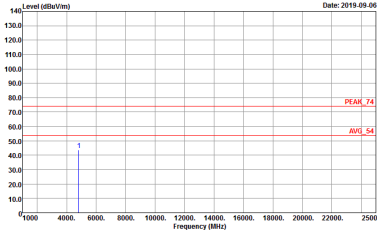
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH01 2412MHz	
2	Horizontal	Fundamental
Peak	 <p>Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_15_1620 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 961832 Setting : 18</p>	 <p>Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 961832 Setting : 18</p>
	 <p>Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_15_1620 HORIZONTAL RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 961832 Setting : 18</p>	 <p>Site : 03CH15-HY Condition : AVG_54 3m 91200_15_1620 HORIZONTAL RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 961832 Setting : 18</p>
Avg.		



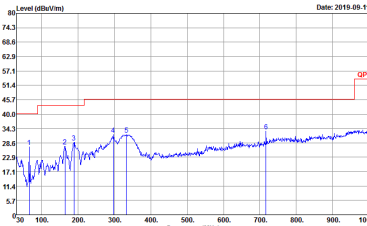
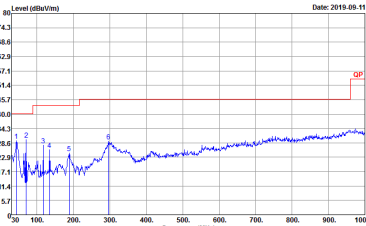
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH01 2412MHz	
2	Vertical	Fundamental
Peak	<p>Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_15_1620 VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 961832 Setting : 18</p>	<p>Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 961832 Setting : 18</p>
Avg.	<p>Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_15_1620 VERTICAL Detector : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 961832 Setting : 18</p>	<p>Site : 03CH15-HY Condition : AVG_54 3m 91200_15_1620 VERTICAL Detector : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 961832 Setting : 18</p>



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	
2	Horizontal	Vertical
Peak Avg.	 <p>Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 HORIZONTAL Detector : Peak Project : 961832</p>	 <p>Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 VERTICAL Detector : Peak Project : 961832</p>

Emission below 1GHz
2.4GHz WIFI 802.11n HT20 (LF)

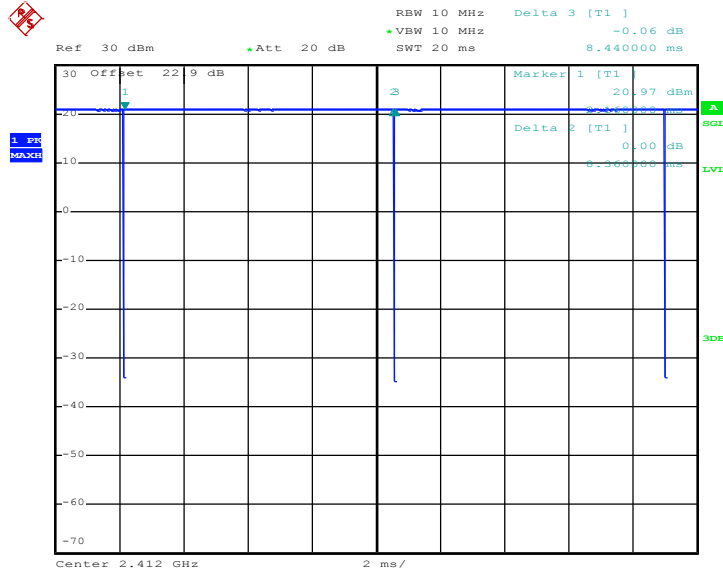
WIFI	2.4GHz 2400~2483.5MHz	
ANT	802.11n HT20 LF	
2	Horizontal	Vertical
QP / Peak	 <p> Site : 03CH15-HY Condition : QP 3m B1LOG_15_41912 HORIZONTAL Detector : Peak Project : 961832 </p>	 <p> Site : 03CH15-HY Condition : QP 3m B1LOG_15_41912 VERTICAL Detector : Peak Project : 961832 </p>

Appendix E. Duty Cycle Plots

Antenna	Band	Duty Cycle(%)	T(us)	1/T(kHz)	VBW Setting	Duty Factor(dB)
1	802.11b	99.05	-	-	10Hz	0.04
2	802.11b	98.93	-	-	10Hz	0.05
1	802.11g	96.54	1395	0.72	1kHz	0.15
2	802.11g	96.55	1400	0.71	1kHz	0.15
1	2.4GHz 802.11n HT20	96.68	1310	0.76	1kHz	0.15
2	2.4GHz 802.11n HT20	96.68	1310	0.76	1kHz	0.15
1	2.4GHz 802.11n HT40	93.06	644	1.55	3kHz	0.31
2	2.4GHz 802.11n HT40	93.06	644	1.55	3kHz	0.31

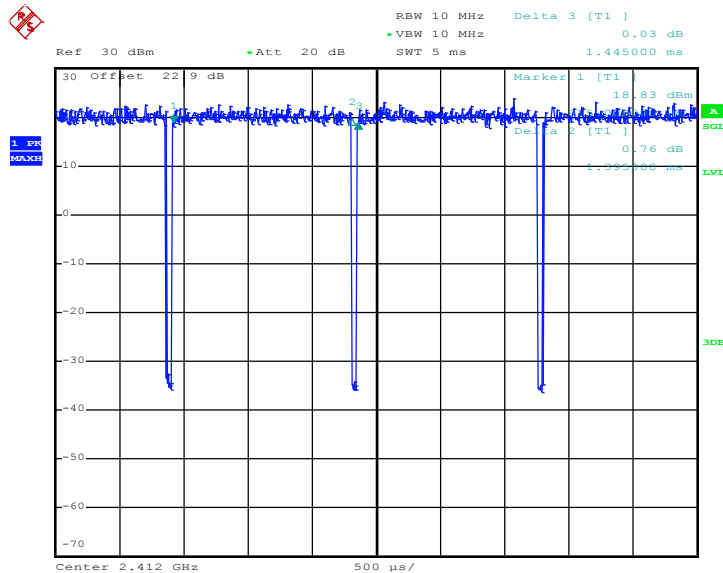
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802.11b



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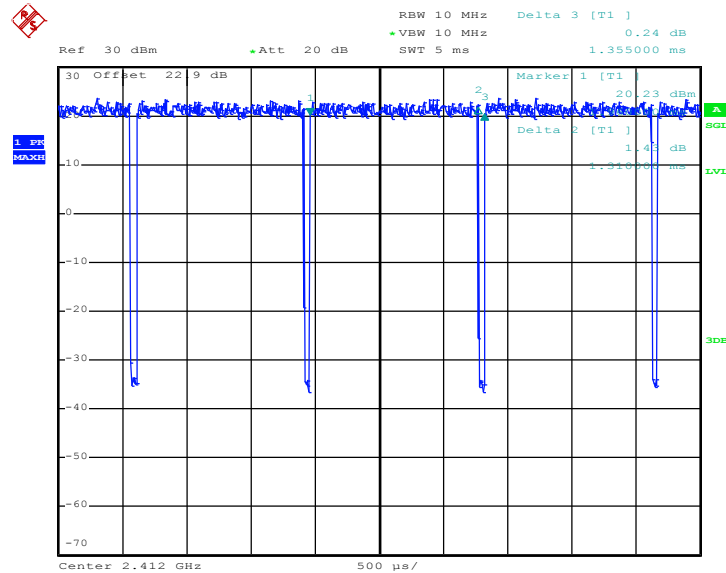
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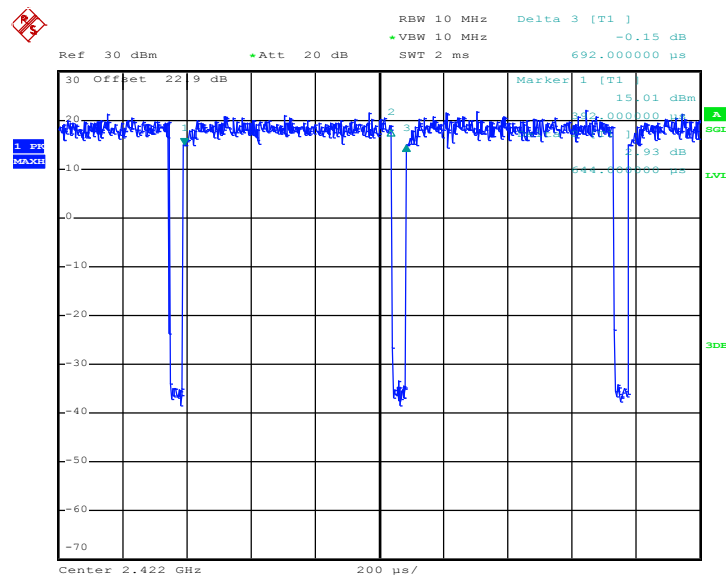


802.11n HT20



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802.11n HT40

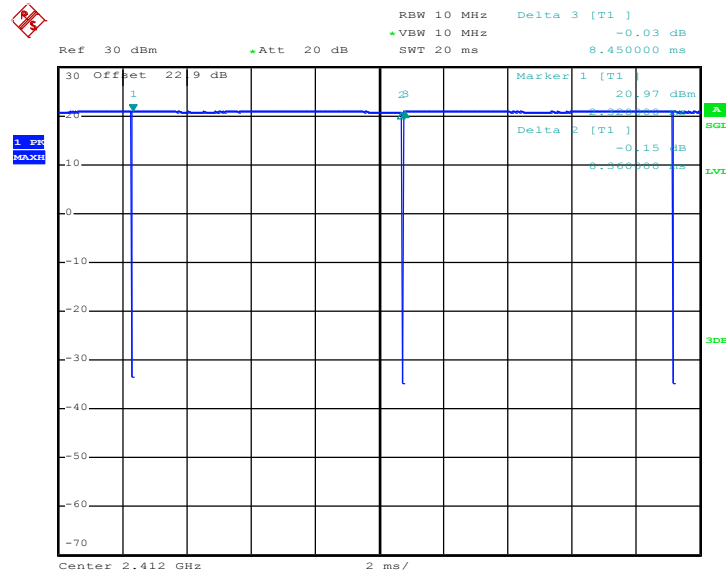


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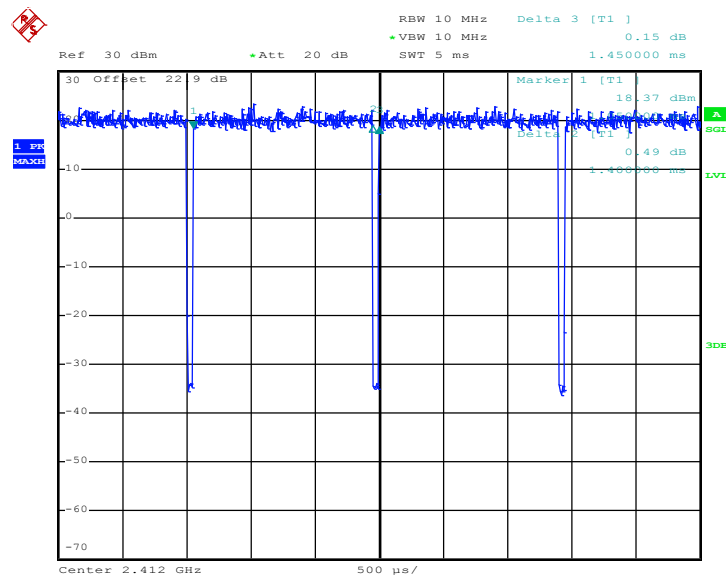
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802.11b



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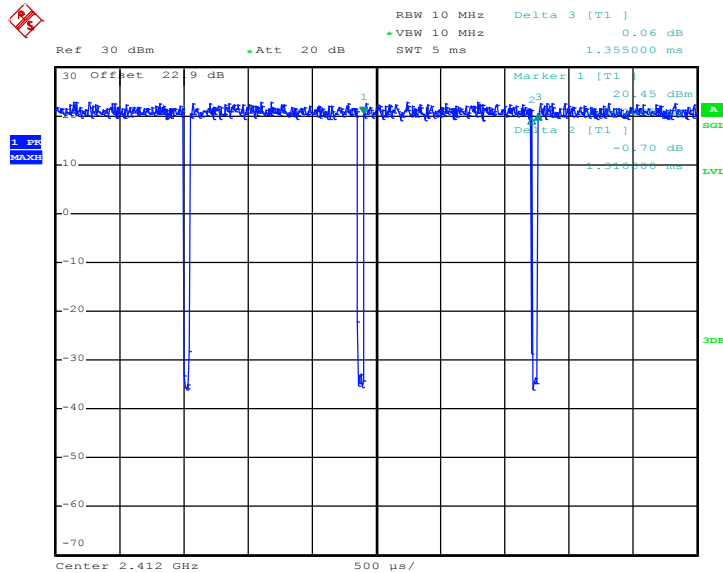
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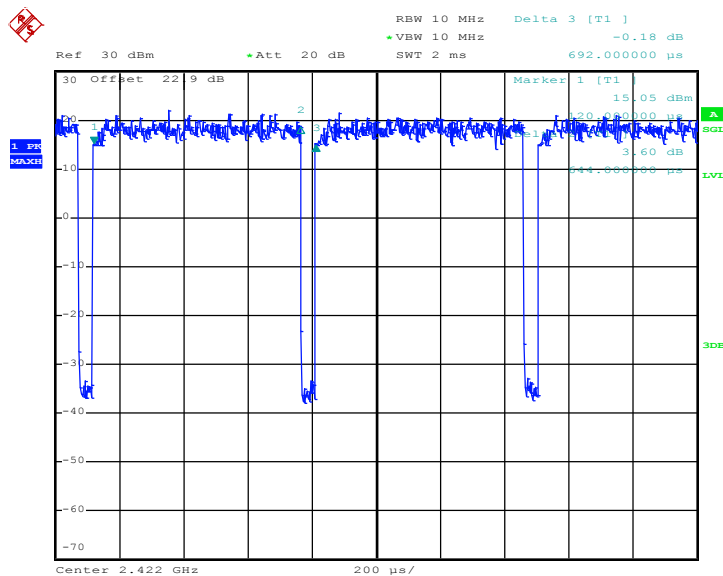


802.11n HT20



Date: 14.AUG.2019 04:04:54

802.11n HT40



Date: 14.AUG.2019 04:06:00

————THE END————