



FCC RADIO TEST REPORT

FCC ID : P4Q-N630A
Equipment : Tablet
Brand Name : MiTAC, Mio, NAVMAN, MAGELLAN
Model Name : N630
Applicant : MiTAC Digital Technology Corporation
No.200, Wen Hua 2nd Rd., Guishan Dist., Taoyuan
City 333, Taiwan (R.O.C.)
Manufacturer : MITAC Computer (Kunshan) Co., Ltd.
No. 269, 2nd Avenue, District A, Comprehensive Free
Trade Zone, 300 Kunshan, China
Standard : FCC Part 15 Subpart C §15.247

The product was received on Aug. 13, 2019 and testing was started from Aug. 23, 2019 and completed on Oct. 07, 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.

Approved by: Louis Wu

SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory

No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.)



Table of Contents

History of this test report.....	3
Summary of Test Result.....	4
1 General Description	5
1.1 Product Feature of Equipment Under Test.....	5
1.2 Modification of EUT	5
1.3 Testing Location	5
1.4 Applicable Standards.....	6
2 Test Configuration of Equipment Under Test	7
2.1 Carrier Frequency and Channel	7
2.2 Test Mode.....	8
2.3 Connection Diagram of Test System.....	8
2.4 Support Unit used in test configuration and system	9
2.5 EUT Operation Test Setup	9
2.6 Measurement Results Explanation Example.....	9
3 Test Result	10
3.1 6dB and 99% Bandwidth Measurement	10
3.2 Output Power Measurement.....	12
3.3 Power Spectral Density Measurement	13
3.4 Conducted Band Edges and Spurious Emission Measurement	15
3.5 Radiated Band Edges and Spurious Emission Measurement	28
3.6 AC Conducted Emission Measurement.....	32
3.7 Antenna Requirements.....	34
4 List of Measuring Equipment.....	35
5 Uncertainty of Evaluation	36
Appendix A. Conducted Test Results	
Appendix B. AC Conducted Emission Test Result	
Appendix C. Radiated Spurious Emission	
Appendix D. Radiated Spurious Emission Plots	
Appendix E. Duty Cycle Plots	
Appendix F. Setup Photographs	



History of this test report

Report No.	Version	Description	Issued Date
FR981324-01C	01	Initial issue of report	Oct. 15, 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 0.51 dB at 2483.560 MHz
3.6	15.207	AC Conducted Emission	Pass	Under limit 11.61 dB at 0.152 MHz
3.7	15.203 & 15.247(b)	Antenna Requirement	Pass	-

Declaration of Conformity:

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

Comments and Explanations:

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

Reviewed by: Wii Chang

Report Producer: Vivian Hsu



1 General Description

1.1 Product Feature of Equipment Under Test

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

Product Specification subjective to this standard	
Antenna Type	WLAN: PIFA Antenna Bluetooth: PIFA Antenna NFC: Loop Antenna

1.2 Modification of EUT

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

1.3 Testing Location

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

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

Test Site	SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory	
Test Site Location	No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.) TEL: +886-3-327-0868 FAX: +886-3-327-0855	
Test Site No.	Sporton Site No.	
	03CH16-HY	

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

FCC designation No.: TW1190 and TW0007



1.4 Applicable Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- ♦ FCC Part 15 Subpart C §15.247
- ♦ FCC KDB Publication No. 558074 D01 DTS Meas. Guidance v05r02
- ♦ FCC KDB 414788 D01 Radiated Test Site v01r01.
- ♦ ANSI C63.10-2013

Remark:

1. All test items were verified and recorded according to the standards and without any deviation during the test.
2. 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 (Z plane) were recorded in this report.
- b. AC power line Conducted Emission was tested under maximum output power.

2.1 Carrier Frequency and Channel

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

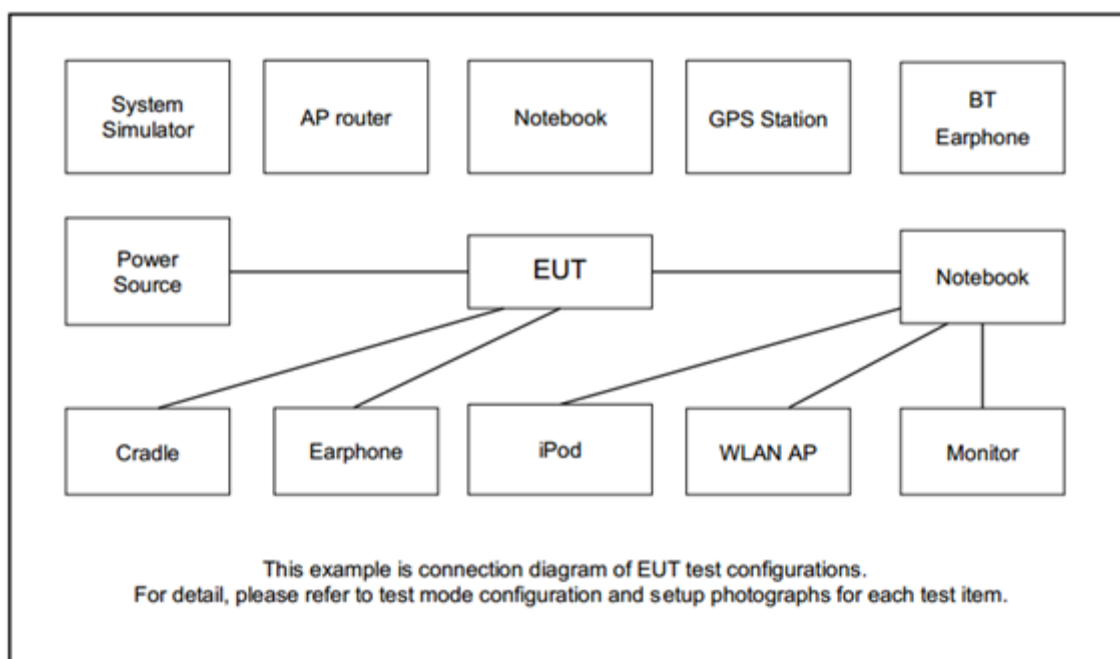
2.2 Test Mode

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

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

Test Cases	
AC Conducted Emission	Mode 1 : WLAN (2.4GHz) Link + Bluetooth Link + H-Pattern + USB Mouse + USB-C Flash Drive(Data Link) + AC Adapter

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.	Mouse	Logitech	M90	FCC DoC	N/A	Unshielded, 1.8m
2.	Bluetooth Earphone	Sony Ericsson	MW600	PY7DDA-2029	N/A	N/A
3.	WLAN AP	ASUS	RT-AC66U	MSQ-RTAC66U	N/A	Unshielded, 1.8 m
4.	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
5.	USB Flash Drive	SanDisk	CruzerGlide 3.0	FCC DoC	N/A	Unshielded, 1.8m

2.5 EUT Operation Test Setup

The RF test items, utility "QRCT_3.0.271.0" was installed in Notebook which was programmed in order to make the EUT get into the engineering modes to provide channel selection, power level, data rate and the application type and for continuous transmitting signals.

2.6 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.

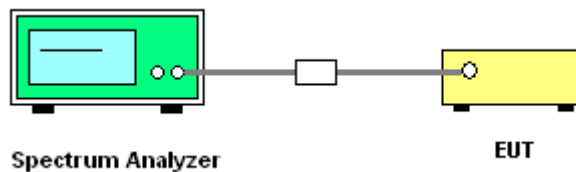
3.1.2 Measuring Instruments

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.

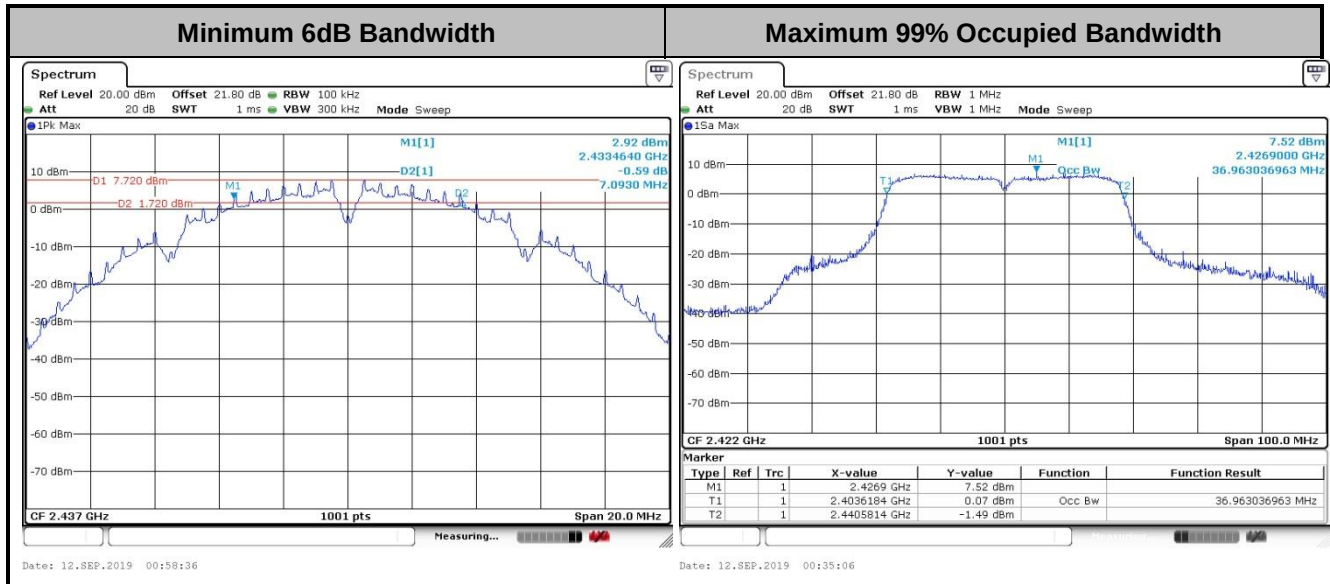
3.1.4 Test Setup





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.

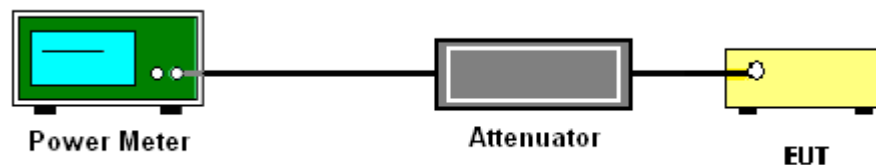
3.2.2 Measuring Instruments

See list of measuring equipment of this test report.

3.2.3 Test Procedures

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

3.2.4 Test Setup



3.2.5 Test Result of Average Output Power

Please refer to Appendix A.

3.3 Power Spectral Density Measurement

3.3.1 Limit of Power Spectral Density

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

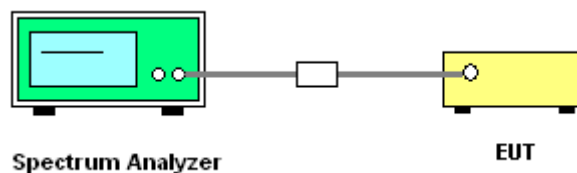
3.3.2 Measuring Instruments

See list of measuring equipment of this test report.

3.3.3 Test Procedures

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

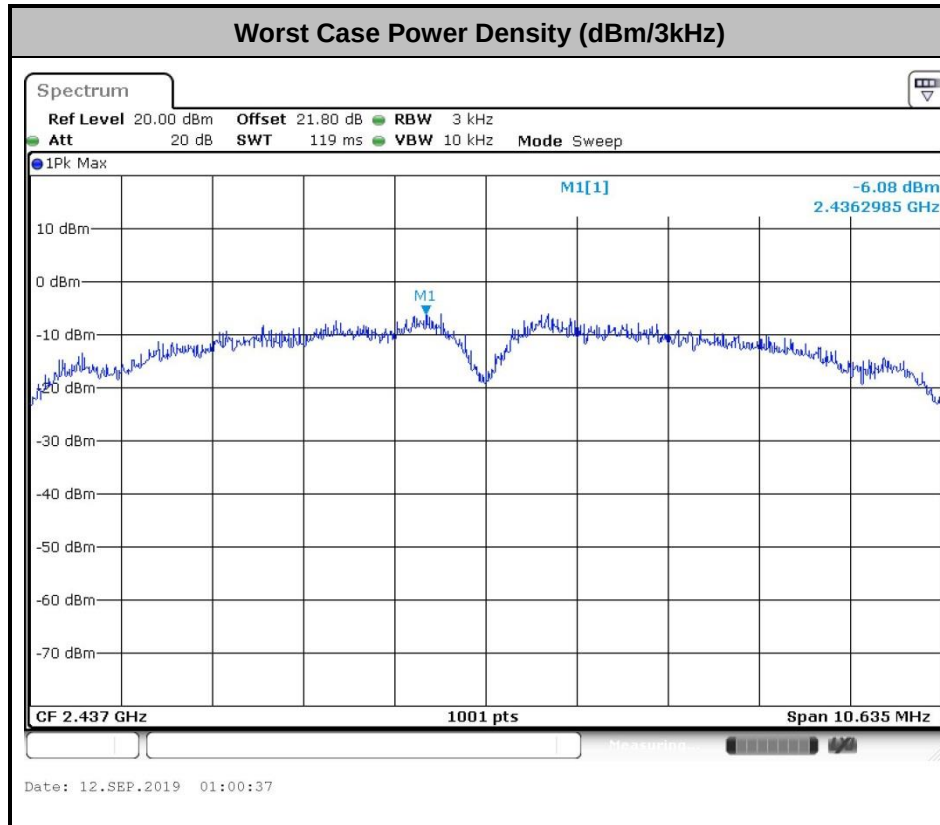
3.3.4 Test Setup





3.3.5 Test Result of Power Spectral Density

Please refer to Appendix A.



3.4 Conducted Band Edges and Spurious Emission Measurement

3.4.1 Limit of Conducted Band Edges and Spurious Emission Measurement

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

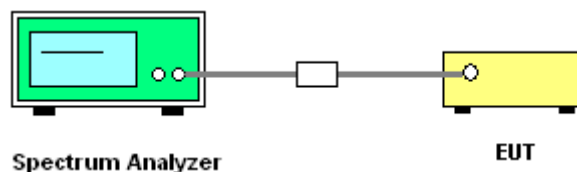
3.4.2 Measuring Instruments

See list of measuring equipment of this test report.

3.4.3 Test Procedures

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

3.4.4 Test Setup

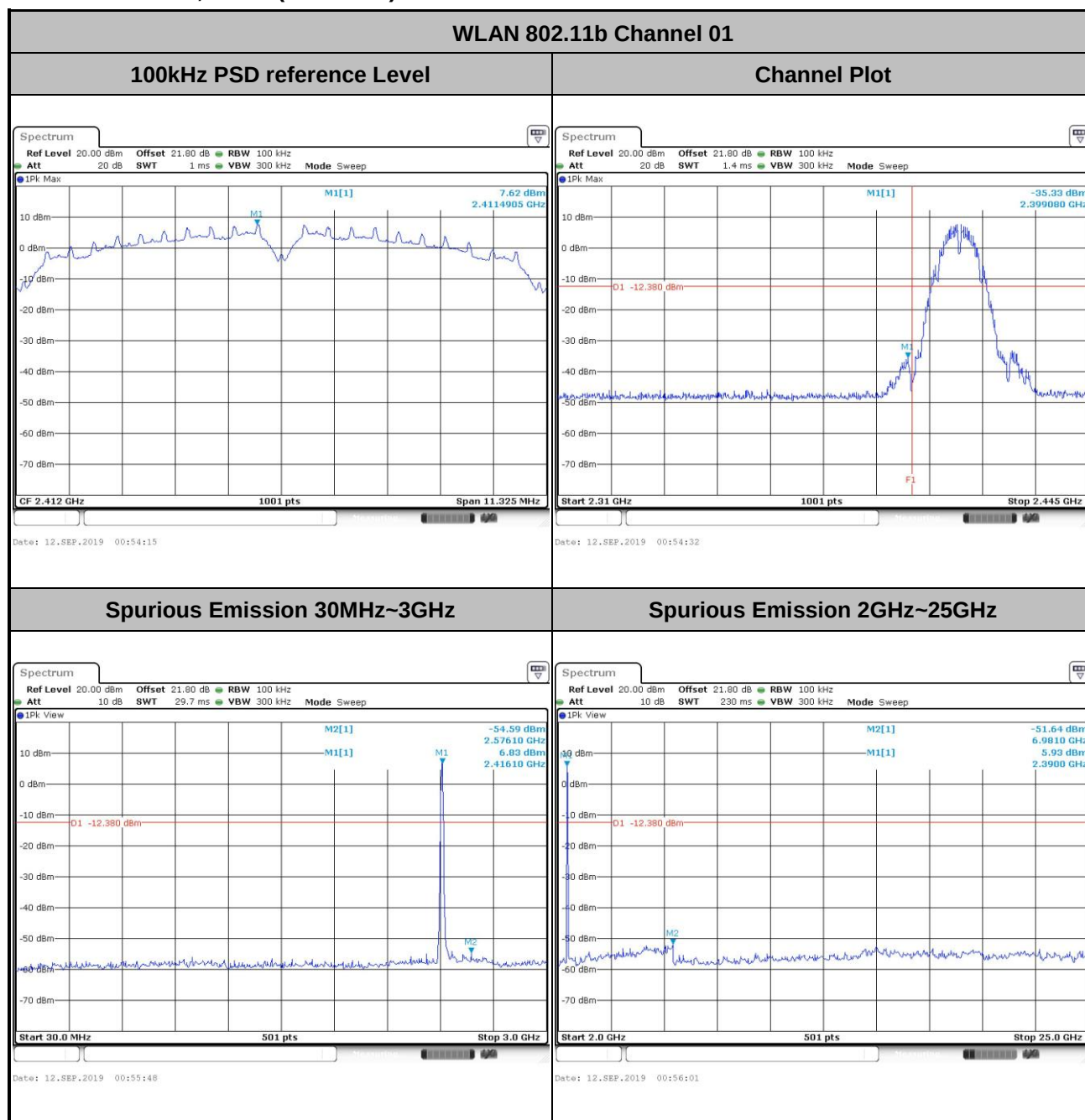




3.4.5 Test Result of Conducted Band Edges and Spurious Emission

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

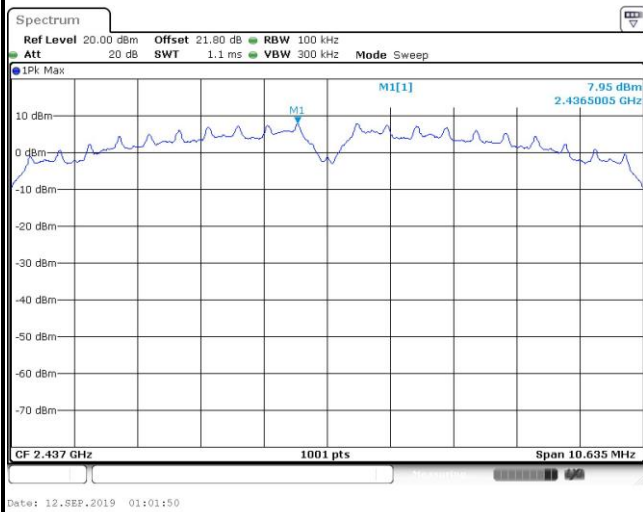
Number of TX = 1, Ant. 1 (Measured)





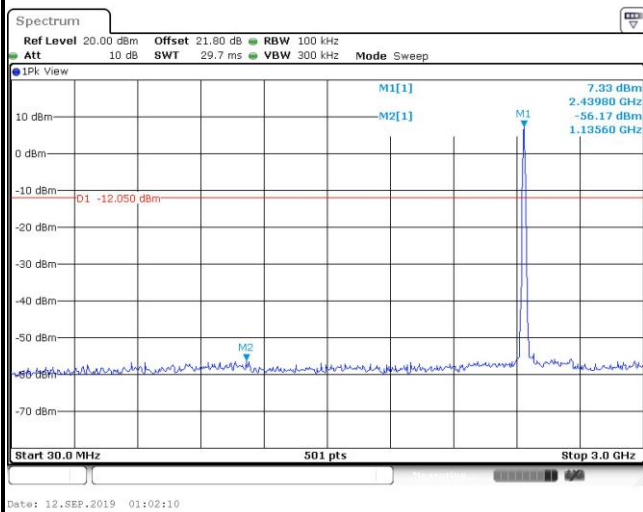
WLAN 802.11b Channel 06

100kHz PSD reference Level

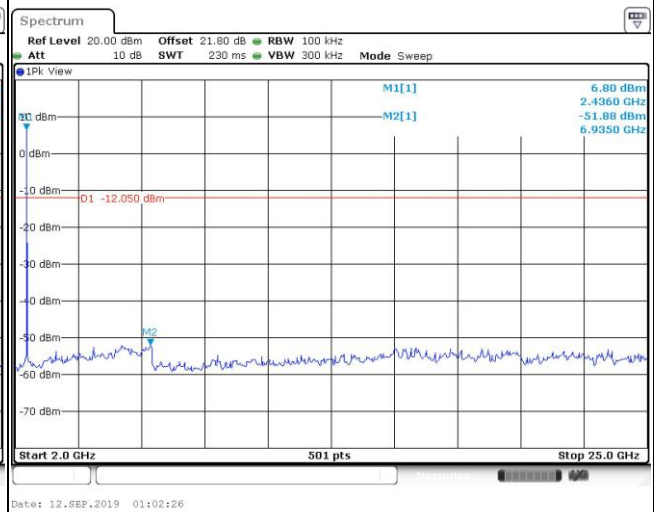


Channel Plot

Spurious Emission 30MHz~3GHz



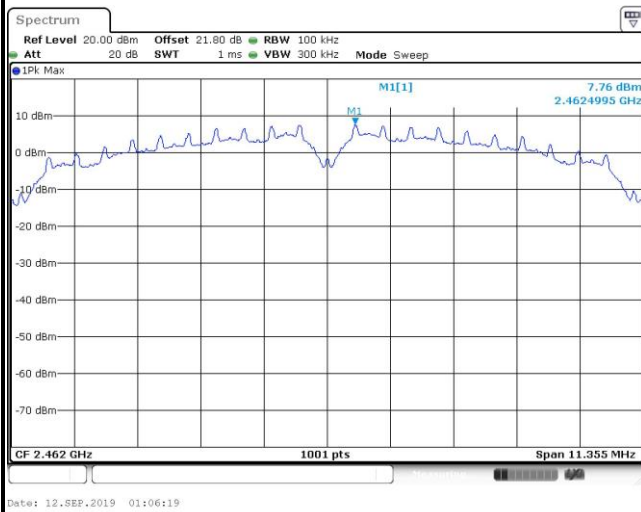
Spurious Emission 2GHz~25GHz



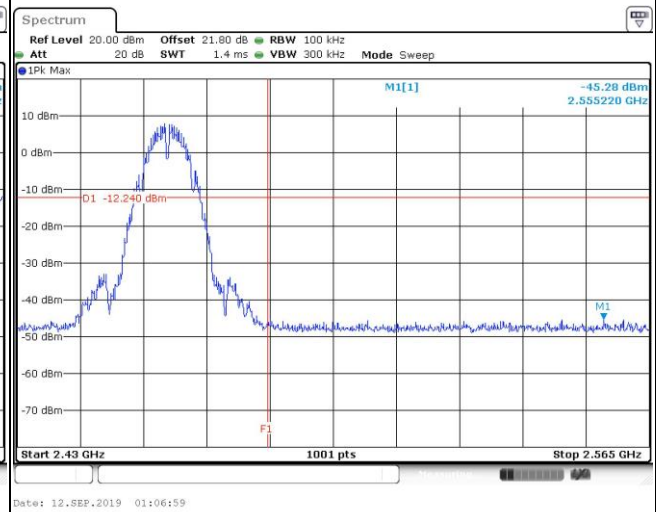


WLAN 802.11b Channel 11

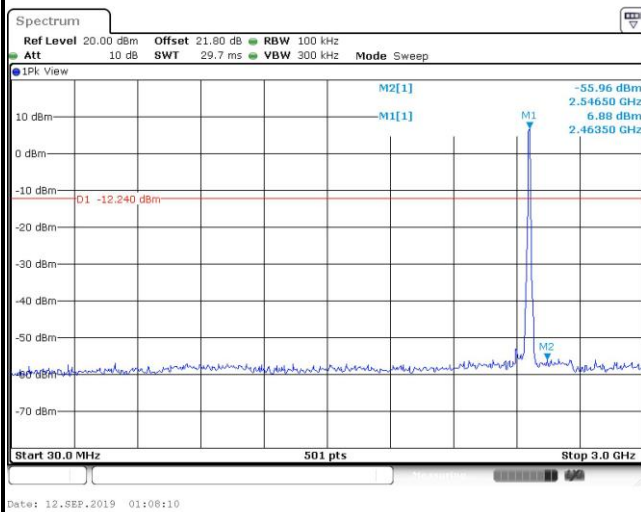
100kHz PSD reference Level



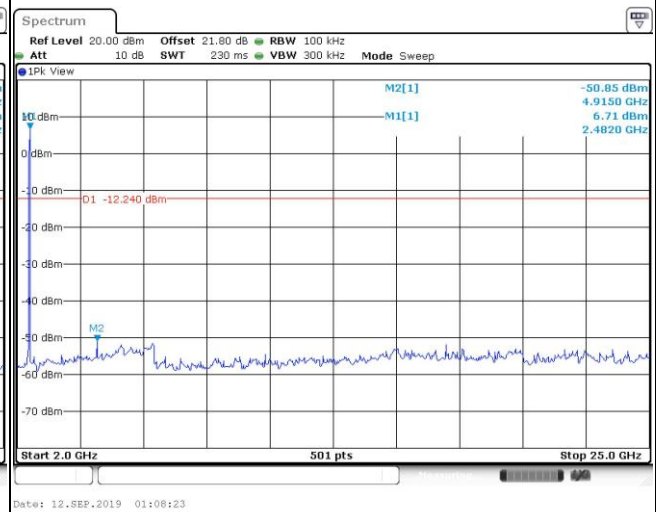
Channel Plot

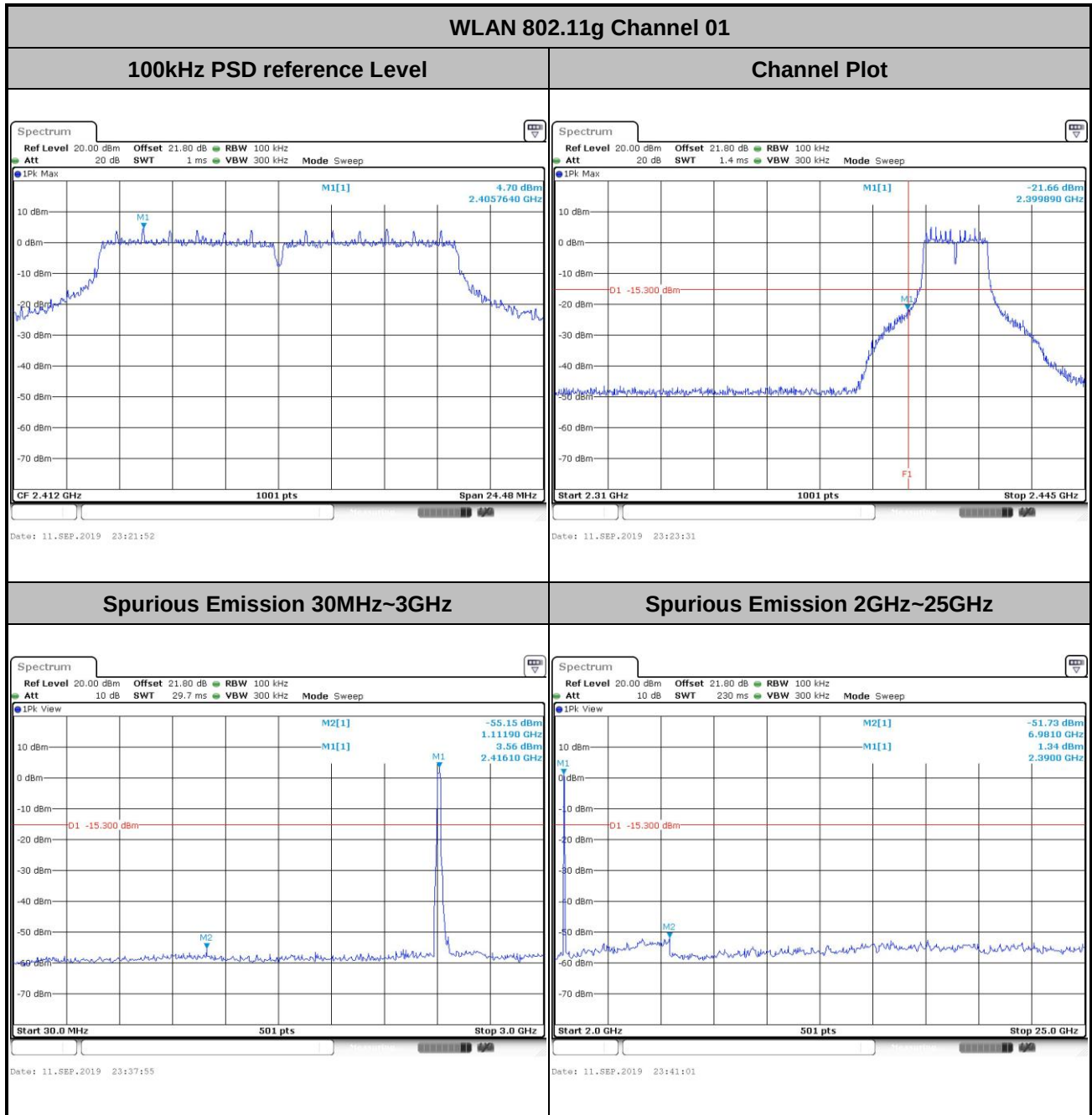


Spurious Emission 30MHz~3GHz



Spurious Emission 2GHz~25GHz

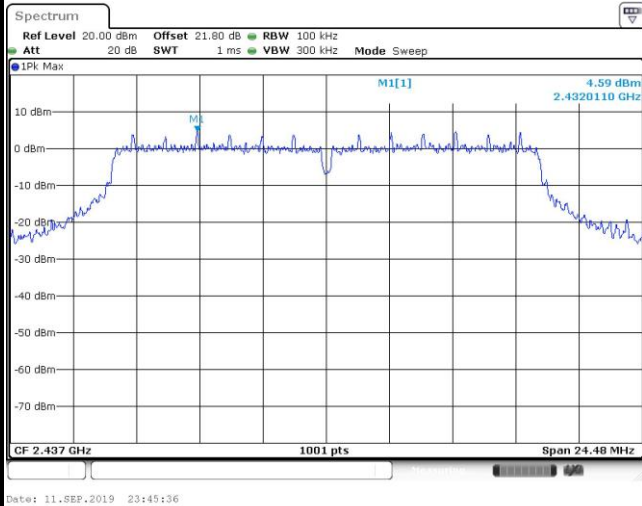






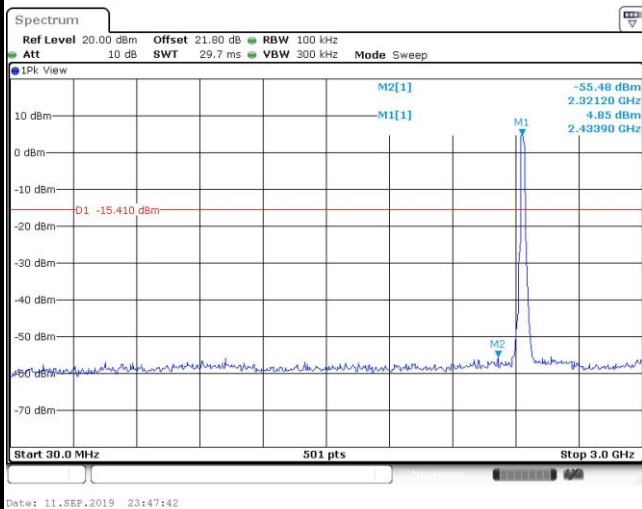
WLAN 802.11g Channel 06

100kHz PSD reference Level

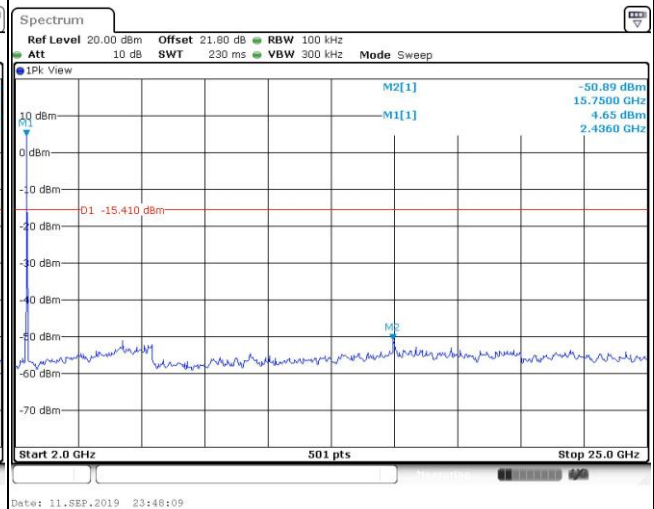


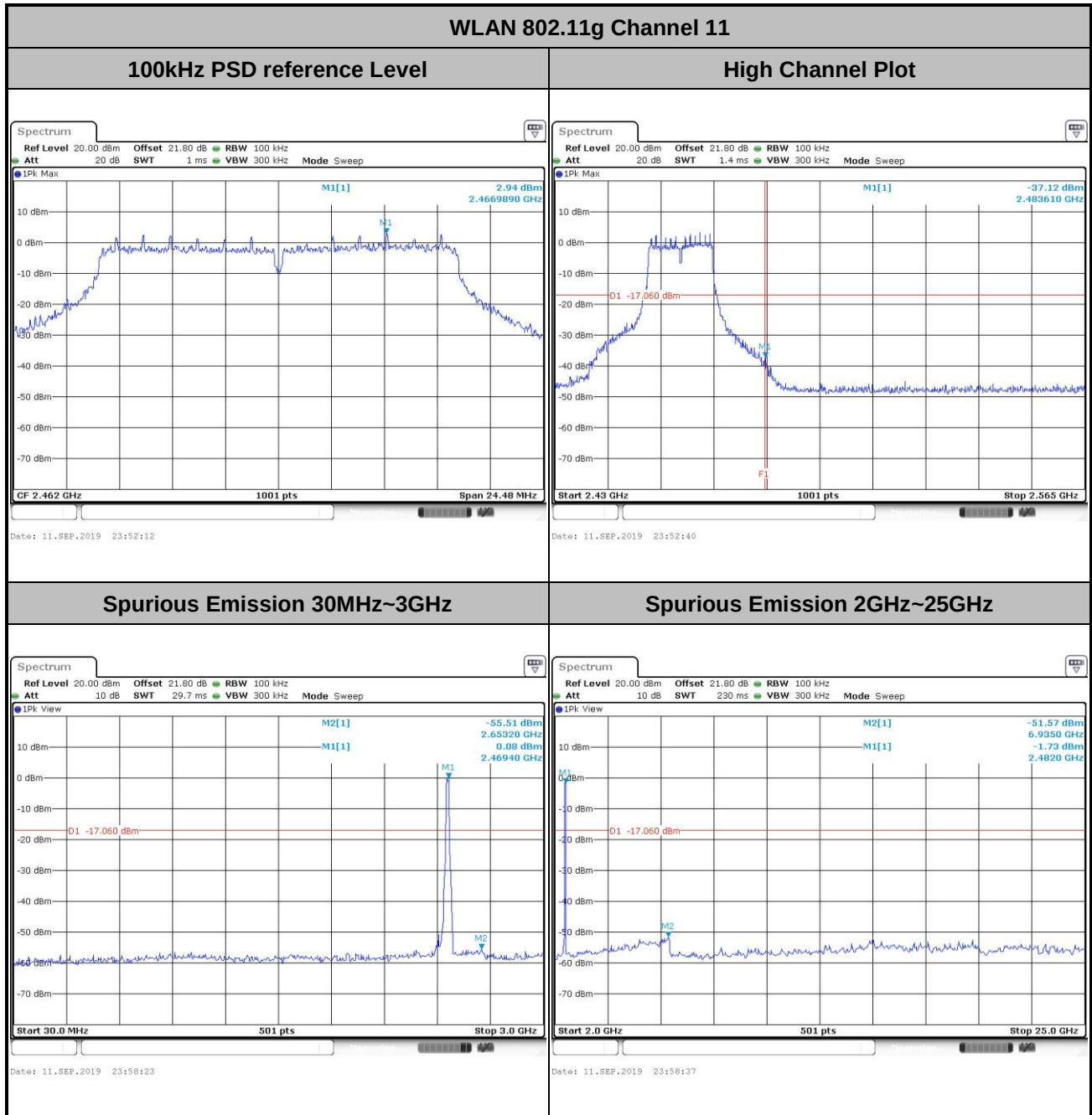
Channel Plot

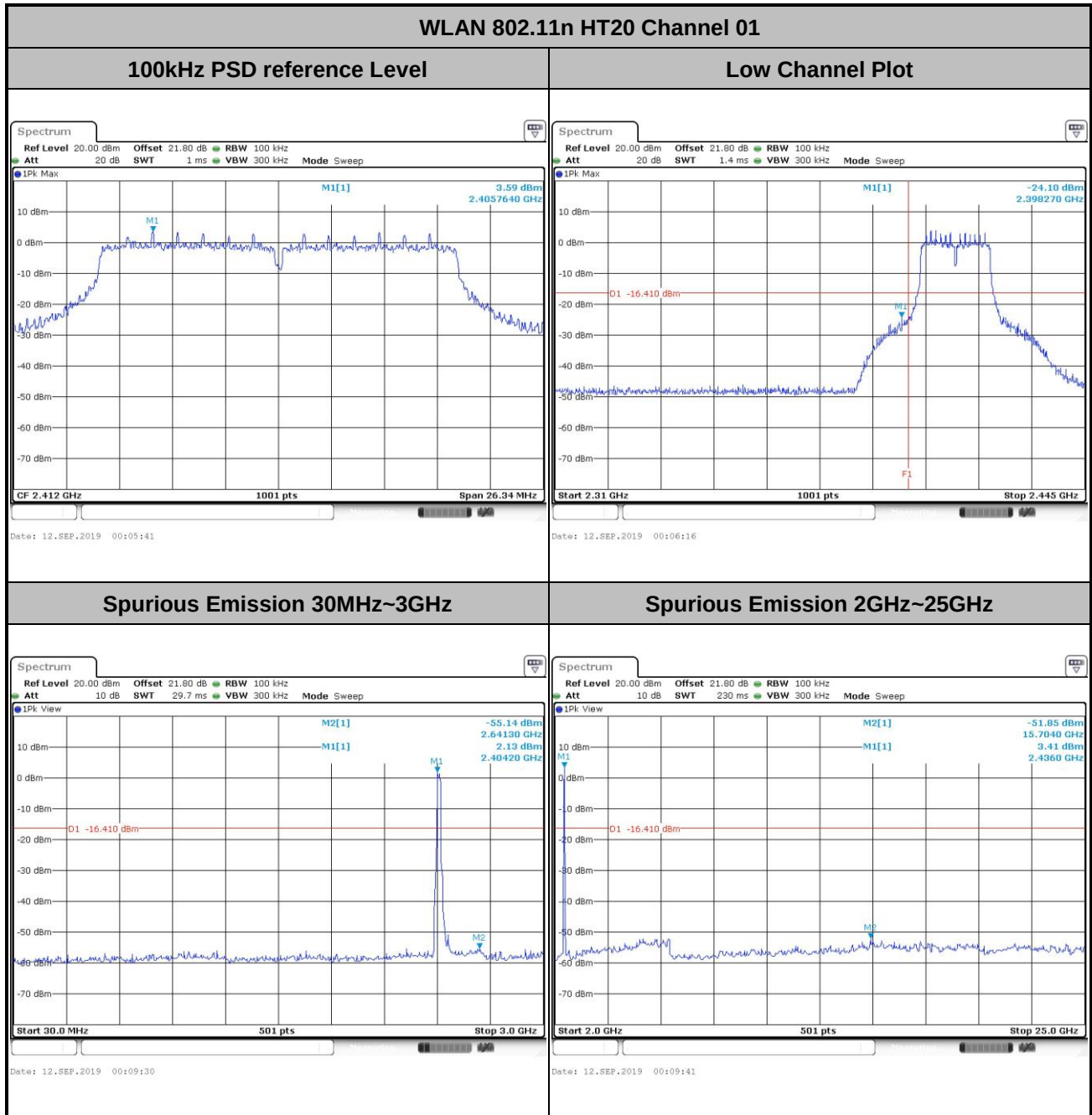
Spurious Emission 30MHz~3GHz



Spurious Emission 2GHz~25GHz

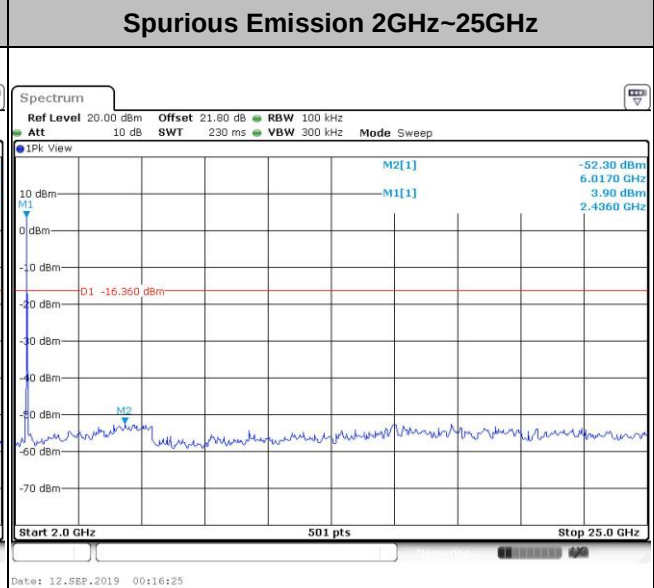


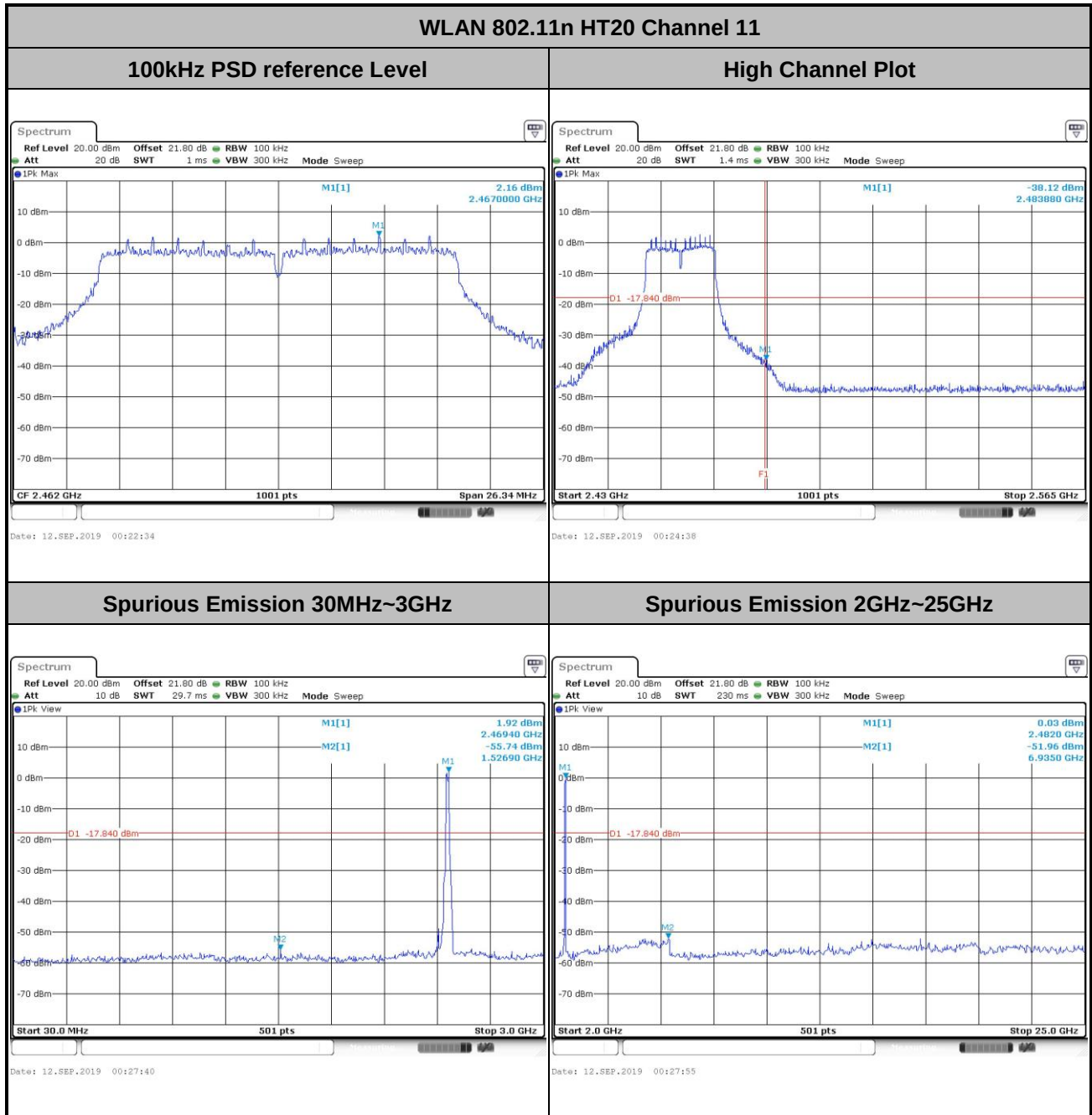


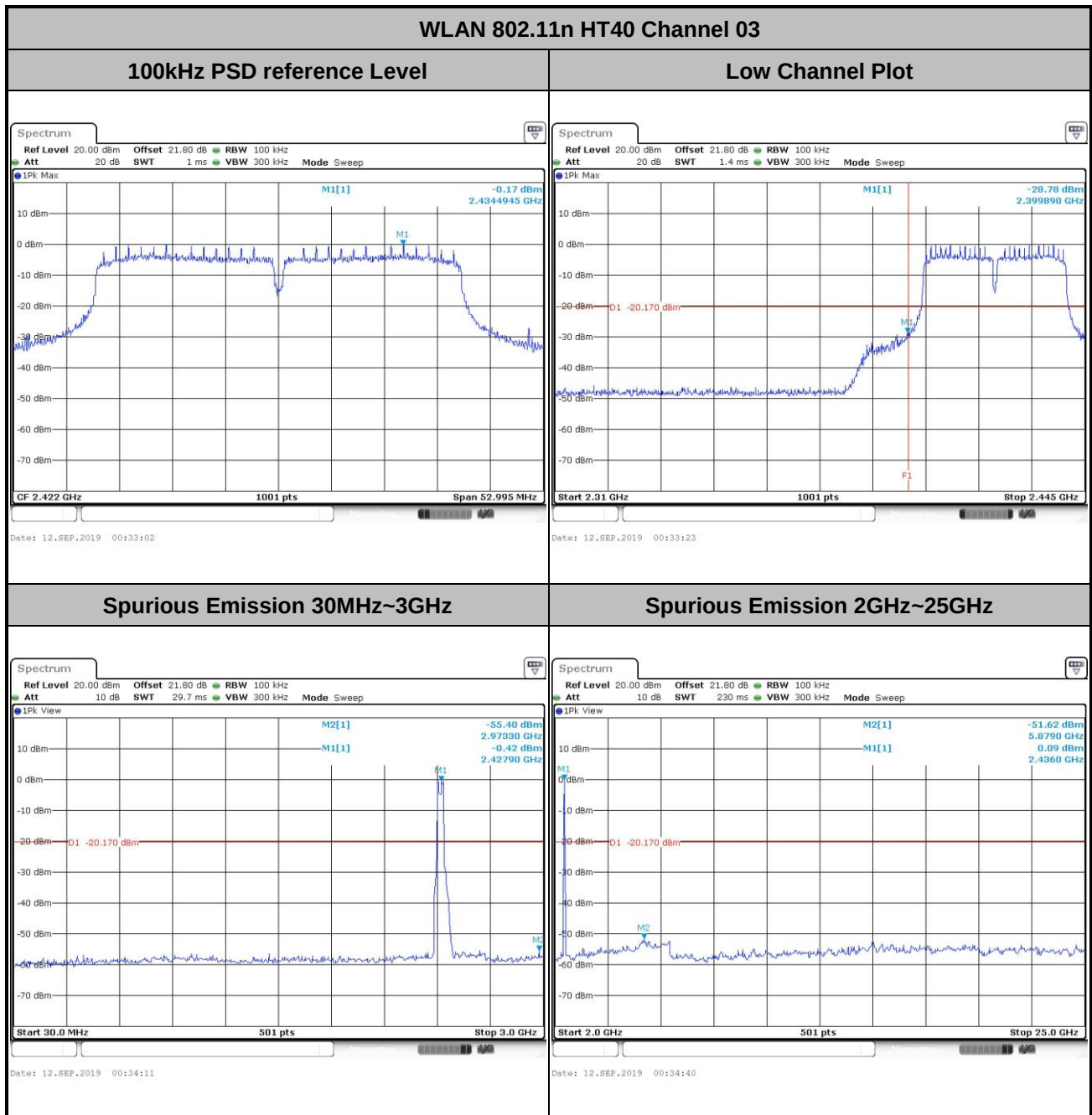




Mid Channel Plot



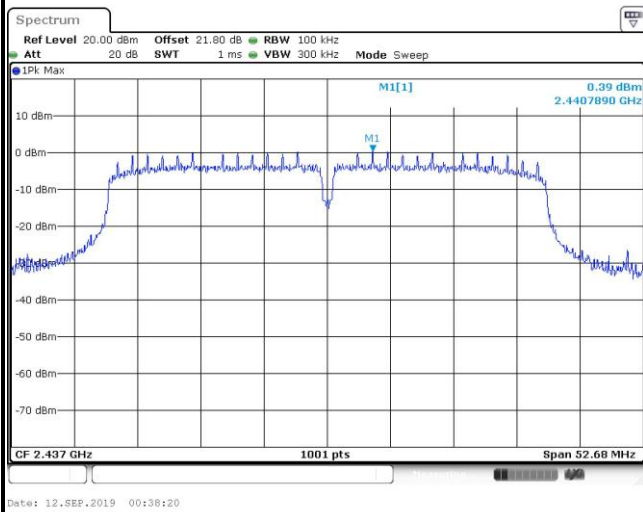






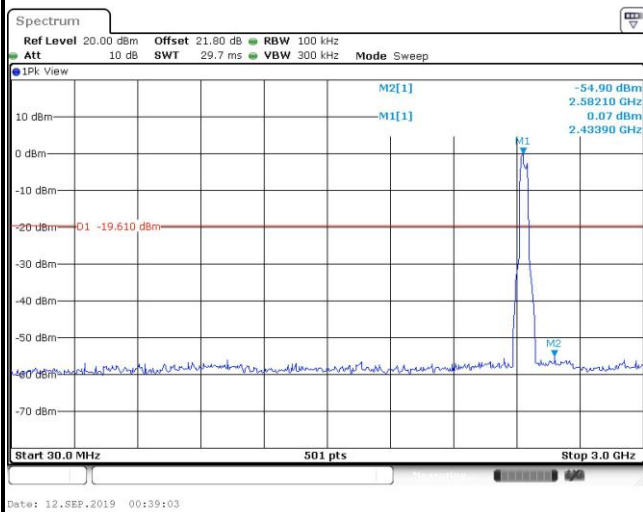
WLAN 802.11n HT40 Channel 06

100kHz PSD reference Level

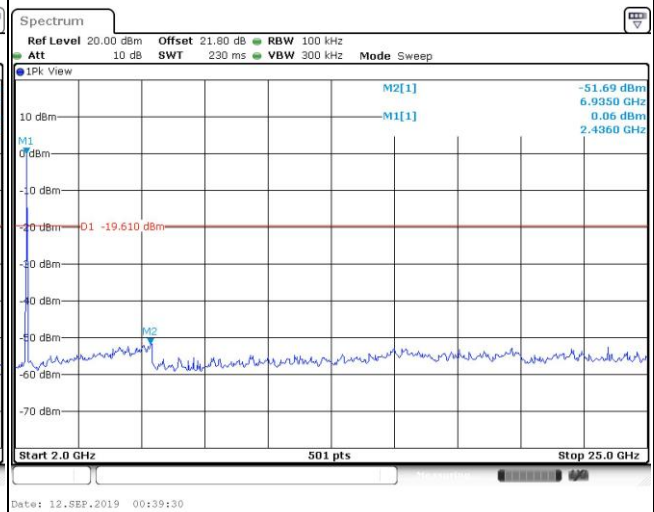


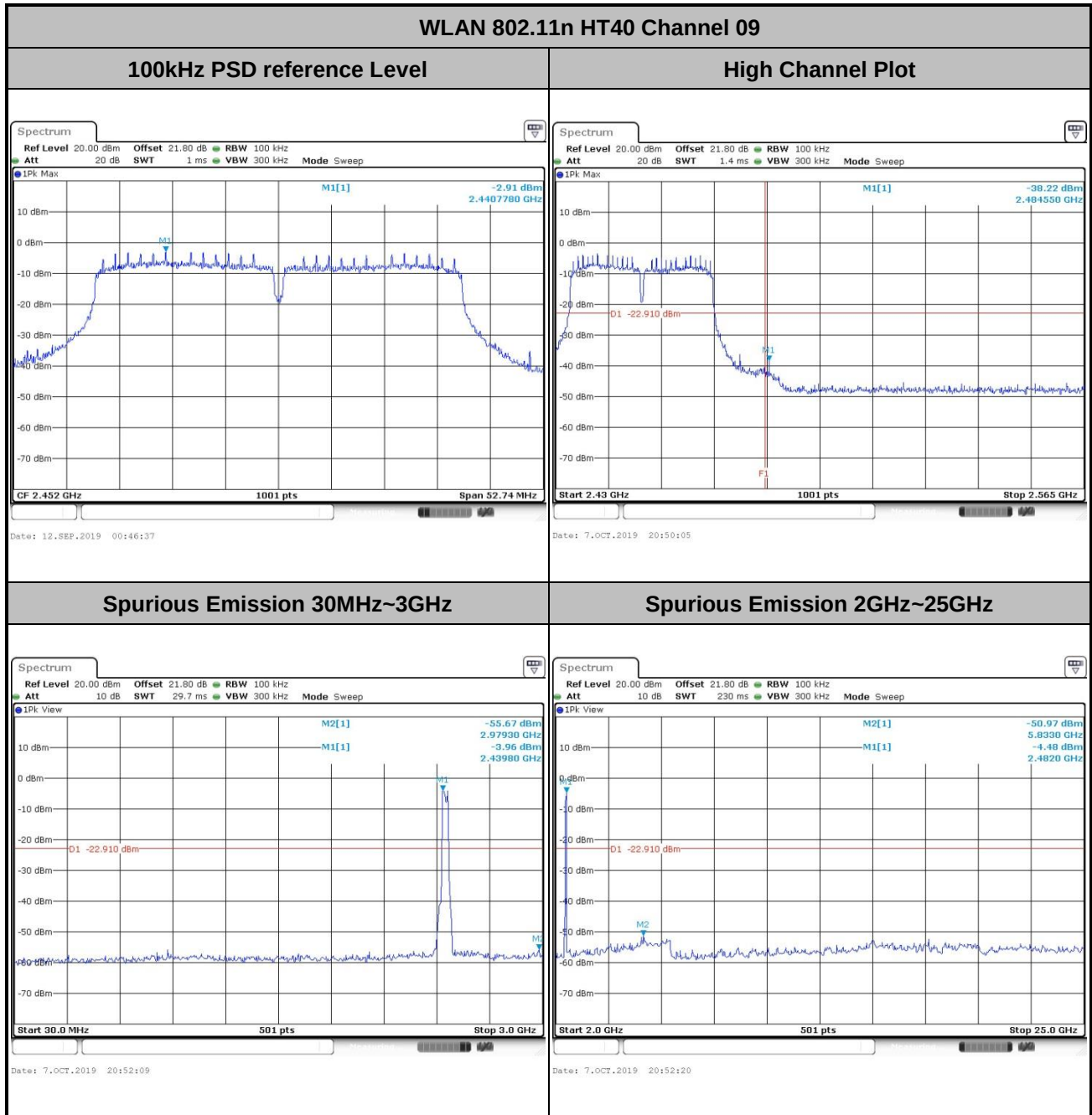
Mid Channel Plot

Spurious Emission 30MHz~3GHz



Spurious Emission 2GHz~25GHz





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

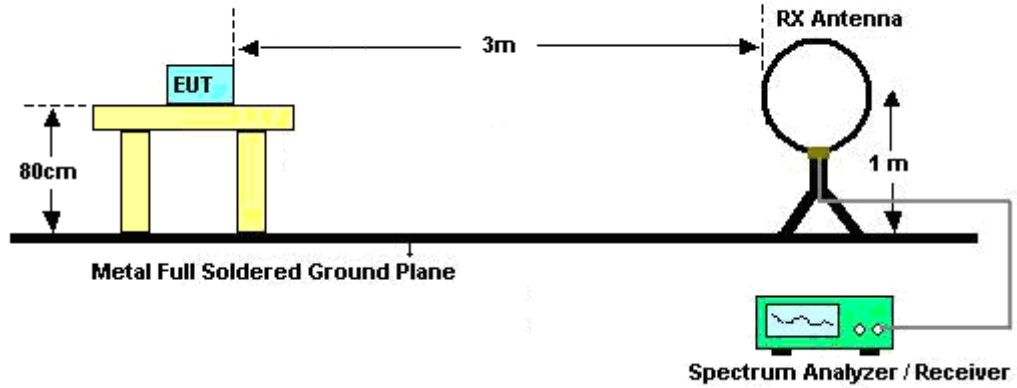
See list of measuring equipment of this test report.

3.5.3 Test Procedures

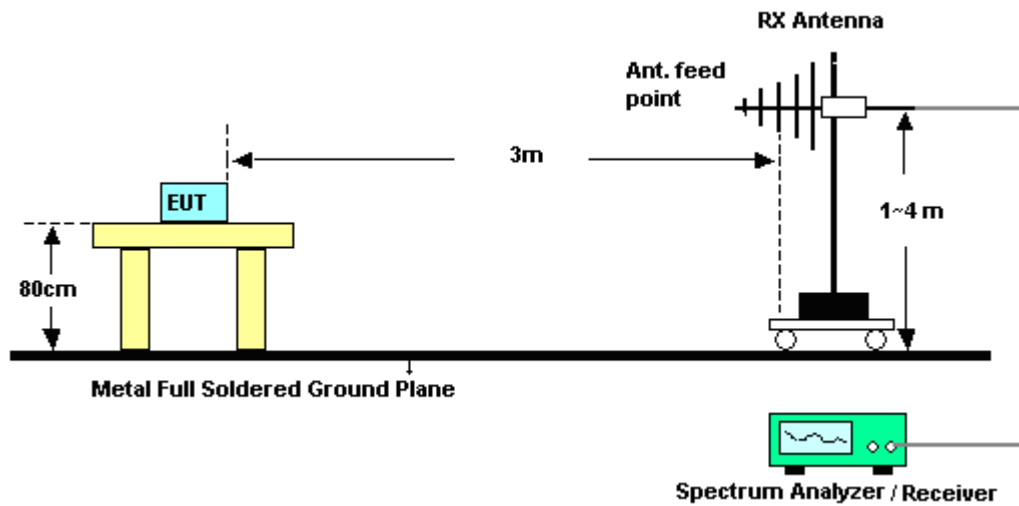
1. The testing follows the ANSI C63.10 Section 11.12.1 Radiated emission measurements.
2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the 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 $f < 1 \text{ GHz}$; $\text{VBW} \geq \text{RBW}$; Sweep = auto; Detector function = peak; Trace = max hold;
 - (3) Set RBW = 1 MHz, VBW= 3MHz for $f \geq 1 \text{ GHz}$ for peak measurement.
For average measurement:
 - $\text{VBW} = 10 \text{ Hz}$, when duty cycle is no less than 98 percent.
 - $\text{VBW} \geq 1/T$, 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

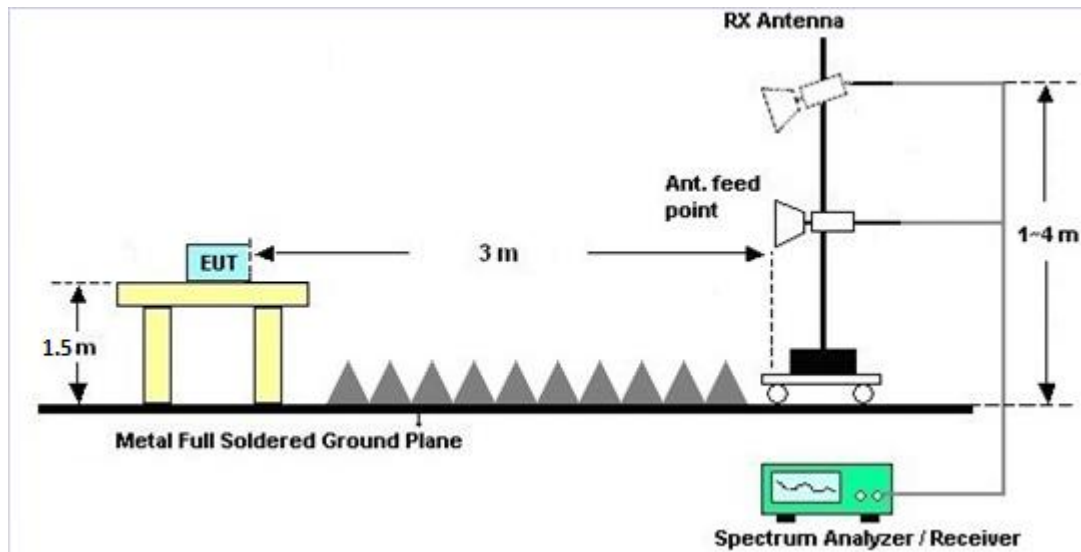
For radiated emissions below 30MHz



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.

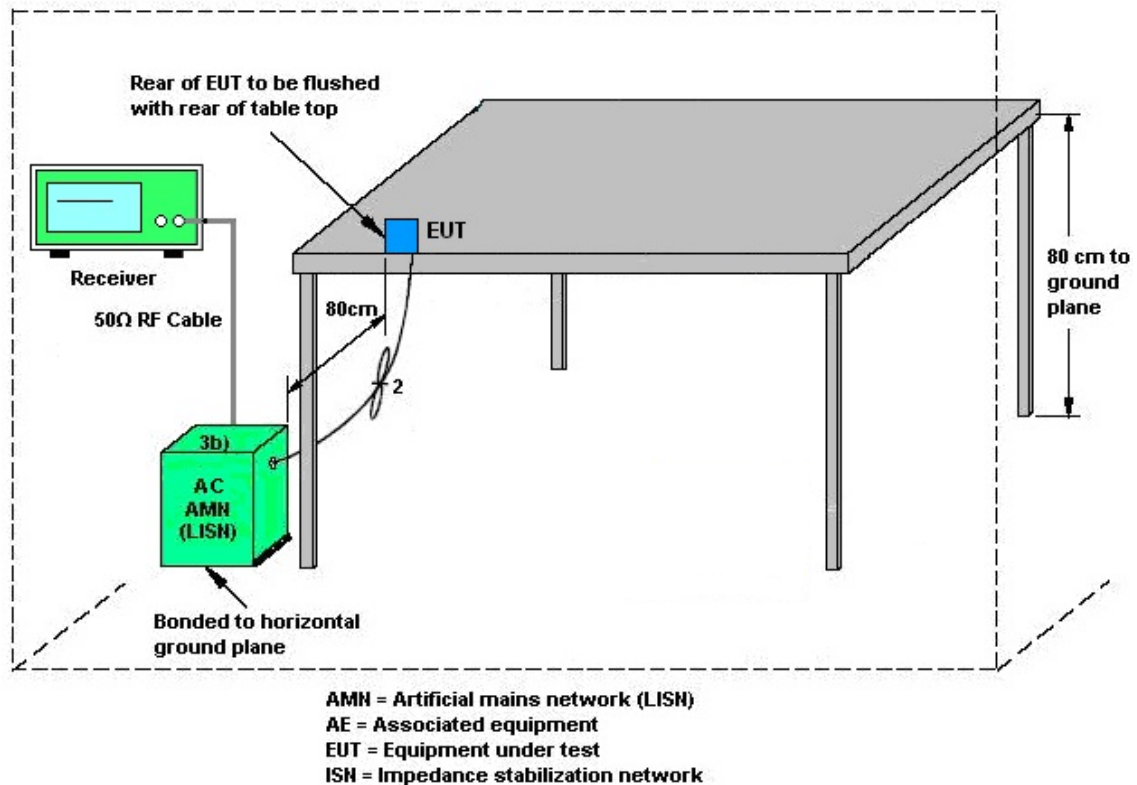
3.6.2 Measuring Instruments

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 rule.

3.7.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.

3.7.3 Antenna Gain

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



4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Power Meter	Anritsu	ML2495A	1036004	N/A	Aug. 08, 2019	Aug. 23, 2019~ Oct. 07, 2019	Aug. 07, 2020	Conducted (TH05-HY)
Power Sensor	Anritsu	MA2411B	1027253	300MHz~40GHz	Aug. 08, 2019	Aug. 23, 2019~ Oct. 07, 2019	Aug. 07, 2020	Conducted (TH05-HY)
Power Sensor	DARE	RPR3006W	16I00054S NO10	10MHz~6GHz	Dec. 19, 2018	Aug. 23, 2019~ Oct. 07, 2019	Dec. 18, 2019	Conducted (TH05-HY)
Spectrum Analyzer	Rohde & Schwarz	FSV40	101397	10Hz~40GHz	Nov. 13, 2018	Aug. 23, 2019~ Oct. 07, 2019	Nov. 12, 2019	Conducted (TH05-HY)
Switch Box & RF Cable	EM	EMSW18	SW107090 3	N/A	Dec. 19, 2018	Aug. 23, 2019~ Oct. 07, 2019	Dec. 18, 2019	Conducted (TH05-HY)
AC Power Source	ChainTek	APC-1000W	N/A	N/A	N/A	Aug. 30, 2019	N/A	Conduction (CO05-HY)
EMI Test Receiver	Rohde & Schwarz	ESR3	102388	9kHz~3.6GHz	Nov. 12, 2018	Aug. 30, 2019	Nov. 11, 2019	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100080	9kHz~30MHz	Nov. 14, 2018	Aug. 30, 2019	Nov. 13, 2019	Conduction (CO05-HY)
Software	Rohde & Schwarz	EMC32 V10.30	N/A	N/A	N/A	Aug. 30, 2019	N/A	Conduction (CO05-HY)
LF Cable	HUBER + SUHNER	RG-214/U	LF01	N/A	Dec. 31, 2018	Aug. 30, 2019	Dec. 30, 2019	Conduction (CO05-HY)
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100851	N/A	Dec. 31, 2018	Aug. 30, 2019	Dec. 30, 2019	Conduction (CO05-HY)
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100315	9 kHz~30 MHz	Jan. 11, 2019	Sep. 04, 2019~ Sep. 27, 2019	Jan. 10, 2020	Radiation (03CH16-HY)
Bilog Antenna	TESEQ	CBL6111D&0 0802N1D01N- 06	47020&06	30MHz to 1GHz	Oct. 13, 2018	Sep. 04, 2019~ Sep. 27, 2019	Oct. 12, 2019	Radiation (03CH16-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-021 14	1G~18GHz	Jul. 31, 2019	Sep. 04, 2019~ Sep. 27, 2019	Jul. 30, 2020	Radiation (03CH16-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170 251	18GHz ~ 40GHz	Nov. 20, 2018	Sep. 04, 2019~ Sep. 27, 2019	Nov. 19, 2019	Radiation (03CH16-HY)
Amplifier	SONOMA	310N	371607	9kHz~1000MHz	Oct. 02, 2018	Sep. 04, 2019~ Sep. 27, 2019	Oct. 01, 2019	Radiation (03CH16-HY)
Preamplifier	Jet-Power	JPA0118-55-3 03	171000180 0054001	1GHz~18GHz	May 19, 2019	Sep. 04, 2019~ Sep. 27, 2019	May 18, 2020	Radiation (03CH16-HY)
Preamplifier	Keysight	83017A	MY532702 64	1GHz~26.5GHz	Dec. 12, 2018	Sep. 04, 2019~ Sep. 27, 2019	Dec. 11, 2019	Radiation (03CH16-HY)
Preamplifier	EMEC	EM18G40G	060715	18GHz~40GHz	Dec. 06, 2018	Sep. 04, 2019~ Sep. 27, 2019	Dec. 05, 2019	Radiation (03CH16-HY)
EMI Test Receiver	Keysight	N9038A (MXE)	MY572901 11	3Hz~26.5GHz	Nov. 29, 2018	Sep. 04, 2019~ Sep. 27, 2019	Nov. 28, 2019	Radiation (03CH16-HY)
Spectrum Analyzer	Agilent	N9010A	MY542004 86	10Hz~44GHz	Oct. 19, 2018	Sep. 04, 2019~ Sep. 27, 2019	Oct. 18, 2019	Radiation (03CH16-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 126E	MY1082/2 6EA	30M-18G	Oct. 15, 2018	Sep. 04, 2019~ Sep. 27, 2019	Oct. 14, 2019	Radiation (03CH16-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY36980/ 4	30M~18GHz	Apr. 15, 2019	Sep. 04, 2019~ Sep. 27, 2019	Apr. 14, 2020	Radiation (03CH16-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	800740/2	30MHz~40GHz	Feb. 26, 2019	Sep. 04, 2019~ Sep. 27, 2019	Feb. 25, 2020	Radiation (03CH16-HY)
Software	Audix	E3 6.2009-8-24	RK-001136	N/A	N/A	Sep. 04, 2019~ Sep. 27, 2019	N/A	Radiation (03CH16-HY)

5 Uncertainty of Evaluation

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

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

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

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

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.8
---	-----

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	3.9
---	-----

Appendix A. Test Result of Conducted Test Items

Test Engineer:	Shiming Liu	Temperature:	21~25	°C
Test Date:	2019/8/23~2019/10/07	Relative Humidity:	51~54	%
TX Tool	QRCT	TX Tool Version	V3.0.303.0	

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	12.79	-	7.55	-	0.50	Pass
11b	1Mbps	1	6	2437	12.69	-	7.09	-	0.50	Pass
11b	1Mbps	1	11	2462	12.74	-	7.57	-	0.50	Pass
11g	6Mbps	1	1	2412	17.68	-	16.32	-	0.50	Pass
11g	6Mbps	1	6	2437	17.58	-	16.32	-	0.50	Pass
11g	6Mbps	1	11	2462	17.28	-	16.32	-	0.50	Pass
HT20	MCS0	1	1	2412	18.28	-	17.56	-	0.50	Pass
HT20	MCS0	1	6	2437	18.28	-	17.54	-	0.50	Pass
HT20	MCS0	1	11	2462	18.18	-	17.56	-	0.50	Pass
HT40	MCS0	1	3	2422	36.96	-	35.33	-	0.50	Pass
HT40	MCS0	1	6	2437	36.76	-	35.13	-	0.50	Pass
HT40	MCS0	1	9	2452	36.86	-	35.17	-	0.50	Pass

TEST RESULTS DATA
Peak Output Power

2.4GHz Band															
Mod.	Data Rate	N _{TX}	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	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	
11b	1Mbps	1	1	2412	18.79	-	30.00	-	2.20	-	20.99	-	36.00	-	Pass
11b	1Mbps	1	6	2437	18.78	-	30.00	-	2.20	-	20.98	-	36.00	-	Pass
11b	1Mbps	1	11	2462	18.34	-	30.00	-	2.20	-	20.54	-	36.00	-	Pass
11g	6Mbps	1	1	2412	22.17	-	30.00	-	2.20	-	24.37	-	36.00	-	Pass
11g	6Mbps	1	6	2437	22.40	-	30.00	-	2.20	-	24.60	-	36.00	-	Pass
11g	6Mbps	1	11	2462	21.61	-	30.00	-	2.20	-	23.81	-	36.00	-	Pass
HT20	MCS0	1	1	2412	21.95	-	30.00	-	2.20	-	24.15	-	36.00	-	Pass
HT20	MCS0	1	6	2437	21.90	-	30.00	-	2.20	-	24.10	-	36.00	-	Pass
HT20	MCS0	1	11	2462	21.40	-	30.00	-	2.20	-	23.60	-	36.00	-	Pass
HT40	MCS0	1	3	2422	21.90	-	30.00	-	2.20	-	24.10	-	36.00	-	Pass
HT40	MCS0	1	6	2437	22.00	-	30.00	-	2.20	-	24.20	-	36.00	-	Pass
HT40	MCS0	1	9	2452	19.35	-	30.00	-	2.20	-	21.55	-	36.00	-	Pass

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

TEST RESULTS DATA
Average Output Power
(Reporting Only)

2.4GHz Band								
Mod.	Data Rate	Ntx	CH.	Freq. (MHz)	Average Conducted Power (dBm)		Conducted Power Limit (dBm)	
					Ant 1	Ant 2	Ant 1	Ant 2
11b	1Mbps	1	1	2412	15.80	-	30.00	-
11b	1Mbps	1	6	2437	15.80	-	30.00	-
11b	1Mbps	1	11	2462	15.60	-	30.00	-
11g	6Mbps	1	1	2412	15.60	-	30.00	-
11g	6Mbps	1	6	2437	15.70	-	30.00	-
11g	6Mbps	1	11	2462	13.60	-	30.00	-
HT20	MCS0	1	1	2412	14.70	-	30.00	-
HT20	MCS0	1	6	2437	14.60	-	30.00	-
HT20	MCS0	1	11	2462	13.10	-	30.00	-
HT40	MCS0	1	3	2422	13.60	-	30.00	-
HT40	MCS0	1	6	2437	13.90	-	30.00	-
HT40	MCS0	1	9	2452	10.40	-	30.00	-

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

TEST RESULTS DATA
Peak Power Spectral Density

2.4GHz Band											
Mod.	Data Rate	N _{TX}	CH.	Freq. (MHz)	Peak PSD (dBm/3kHz)		DG (dBi)		Peak PSD Limit (dBm/3kHz)		Pass/Fail
					Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	
11b	1Mbps	1	1	2412	-6.33	-	2.20	-	8.00	-	Pass
11b	1Mbps	1	6	2437	-6.08	-	2.20	-	8.00	-	Pass
11b	1Mbps	1	11	2462	-6.28	-	2.20	-	8.00	-	Pass
11g	6Mbps	1	1	2412	-9.14	-	2.20	-	8.00	-	Pass
11g	6Mbps	1	6	2437	-9.32	-	2.20	-	8.00	-	Pass
11g	6Mbps	1	11	2462	-11.57	-	2.20	-	8.00	-	Pass
HT20	MCS0	1	1	2412	-11.36	-	2.20	-	8.00	-	Pass
HT20	MCS0	1	6	2437	-10.71	-	2.20	-	8.00	-	Pass
HT20	MCS0	1	11	2462	-11.78	-	2.20	-	8.00	-	Pass
HT40	MCS0	1	3	2422	-14.91	-	2.20	-	8.00	-	Pass
HT40	MCS0	1	6	2437	-15.15	-	2.20	-	8.00	-	Pass
HT40	MCS0	1	9	2452	-18.07	-	2.20	-	8.00	-	Pass

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



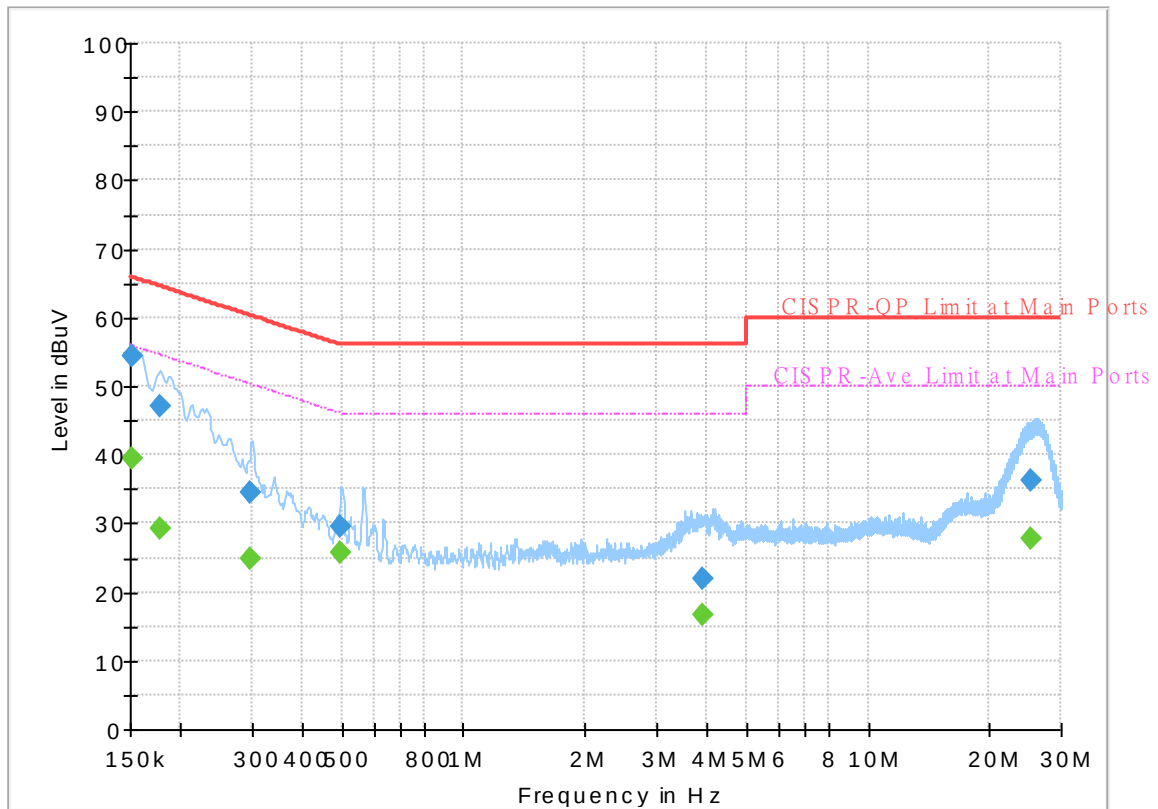
Appendix B. AC Conducted Emission Test Results

Test Engineer :	Jimmy Chang	Temperature :	25.5~26.2℃
		Relative Humidity :	43.5~48.6%

EUT Information

Report NO : 981324-01
Test Mode : Mode 1
Test Voltage : 120Vac/60Hz
Phase : Line

Full Spectrum



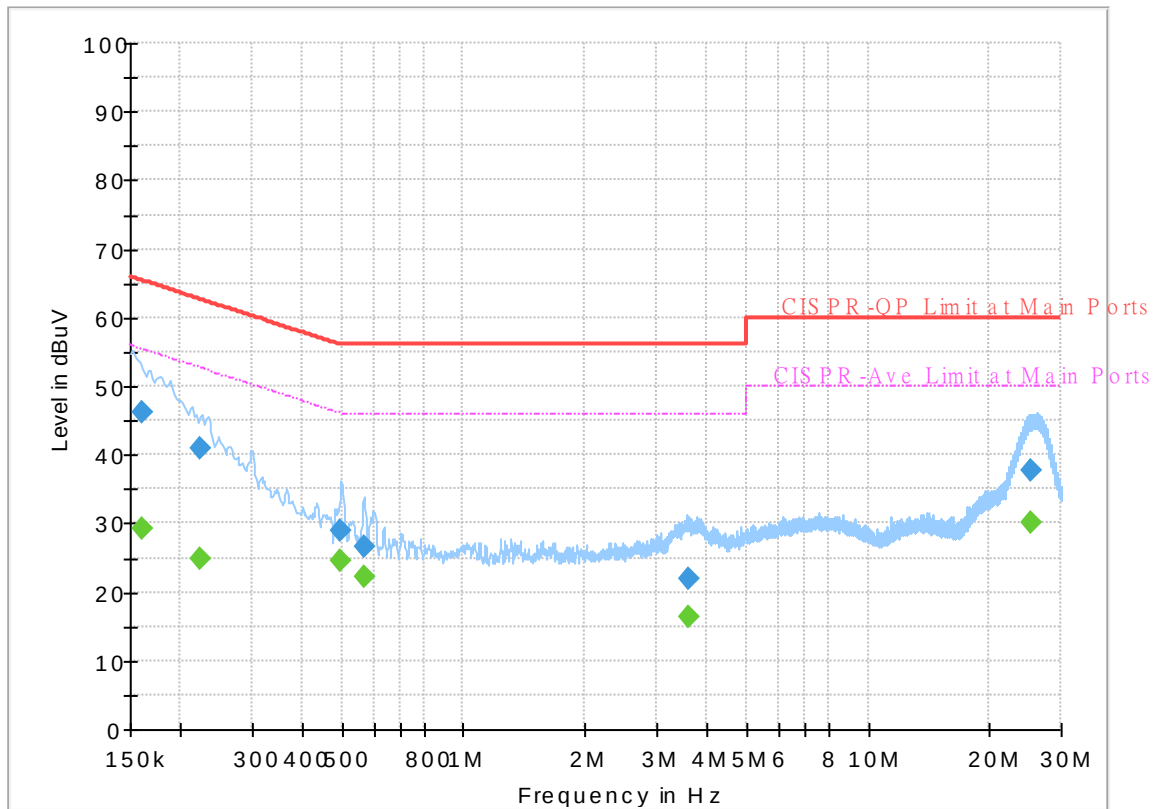
Final Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.152250	---	39.37	55.88	16.51	L1	OFF	19.4
0.152250	54.27	---	65.88	11.61	L1	OFF	19.4
0.177000	---	29.32	54.63	25.31	L1	OFF	19.4
0.177000	46.99	---	64.63	17.64	L1	OFF	19.4
0.298500	---	24.80	50.28	25.48	L1	OFF	19.4
0.298500	34.37	---	60.28	25.91	L1	OFF	19.4
0.498750	---	25.62	46.02	20.40	L1	OFF	19.4
0.498750	29.54	---	56.02	26.48	L1	OFF	19.4
3.898500	---	16.66	46.00	29.34	L1	OFF	19.5
3.898500	21.96	---	56.00	34.04	L1	OFF	19.5
25.190250	---	27.68	50.00	22.32	L1	OFF	19.7
25.190250	36.15	---	60.00	23.85	L1	OFF	19.7

EUT Information

Report NO : 981324-01
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	---	29.30	55.40	26.10	N	OFF	19.4
0.161250	46.09	---	65.40	19.31	N	OFF	19.4
0.224250	---	24.85	52.66	27.81	N	OFF	19.4
0.224250	40.88	---	62.66	21.78	N	OFF	19.4
0.496500	---	24.47	46.06	21.59	N	OFF	19.5
0.496500	28.94	---	56.06	27.12	N	OFF	19.5
0.568500	---	22.23	46.00	23.77	N	OFF	19.5
0.568500	26.70	---	56.00	29.30	N	OFF	19.5
3.612750	---	16.42	46.00	29.58	N	OFF	19.5
3.612750	22.02	---	56.00	33.98	N	OFF	19.5
25.370250	---	30.15	50.00	19.85	N	OFF	19.9
25.370250	37.62	---	60.00	22.38	N	OFF	19.9



Appendix C. Radiated Spurious Emission

Test Engineer :	Jacky Hung 、 Andy Yang 、 CR Liao	Temperature :	20~25°C
		Relative Humidity :	50~60%



2.4GHz 2400~2483.5MHz

WIFI 802.11b (Band Edge @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
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 CH 01 2412MHz	-	2354.415	55.97	-18.03	74	40.91	27.32	18.03	30.29	177	327	P	H
	-	2389.695	43.69	-10.31	54	28.47	27.41	18.09	30.28	177	327	A	H
	*	2412	109.68	-	-	94.36	27.47	18.13	30.28	177	327	P	H
	*	2412	106.5	-	-	91.18	27.47	18.13	30.28	177	327	A	H
	-	-	-	-	-	-	-	-	-	-	-	-	H
	-	-	-	-	-	-	-	-	-	-	-	-	H
	-	2380.035	55.65	-18.35	74	40.47	27.39	18.08	30.29	224	91	P	V
	-	2388.225	43.63	-10.37	54	28.41	27.41	18.09	30.28	224	91	A	V
	*	2412	105.94	-	-	90.62	27.47	18.13	30.28	224	91	P	V
	*	2412	102.72	-	-	87.4	27.47	18.13	30.28	224	91	A	V
	-	-	-	-	-	-	-	-	-	-	-	-	V
	-	-	-	-	-	-	-	-	-	-	-	-	V
802.11b CH 06 2437MHz	-	2372.16	56.7	-17.3	74	41.56	27.37	18.06	30.29	146	330	P	H
	-	2389.8	43.7	-10.3	54	28.48	27.41	18.09	30.28	146	330	A	H
	*	2437	108.38	-	-	92.94	27.54	18.17	30.27	146	330	P	H
	*	2437	105.28	-	-	89.84	27.54	18.17	30.27	146	330	A	H
	-	2485.86	55.91	-18.09	74	40.25	27.66	18.25	30.25	146	330	P	H
	-	2489.78	44.5	-9.5	54	28.83	27.67	18.25	30.25	146	330	A	H
	-	2377.48	56.02	-17.98	74	40.86	27.38	18.07	30.29	234	61	P	V
	-	2388.4	43.63	-10.37	54	28.41	27.41	18.09	30.28	234	61	A	V
	*	2437	104.12	-	-	88.68	27.54	18.17	30.27	234	61	P	V
	*	2437	100.98	-	-	85.54	27.54	18.17	30.27	234	61	A	V
	-	2484.04	56.69	-17.31	74	41.04	27.66	18.24	30.25	234	61	P	V
	-	2490.48	44.3	-9.7	54	28.62	27.68	18.25	30.25	234	61	A	V



802.11b CH 11 2462MHz	*	2462	108.07	-	-	92.52	27.6	18.21	30.26	146	333	P	H
	*	2462	104.83	-	-	89.28	27.6	18.21	30.26	146	333	A	H
	-	2486.8	57.08	-16.92	74	41.41	27.67	18.25	30.25	146	333	P	H
	-	2486.88	45.12	-8.88	54	29.45	27.67	18.25	30.25	146	333	A	H
	-	-	-	-	-	-	-	-	-	-	-	-	H
	-	-	-	-	-	-	-	-	-	-	-	-	H
	*	2462	104.48	-	-	88.93	27.6	18.21	30.26	234	92	P	V
	*	2462	101.27	-	-	85.72	27.6	18.21	30.26	234	92	A	V
	-	2485.44	56.59	-17.41	74	40.93	27.66	18.25	30.25	234	92	P	V
	-	2486.88	44.51	-9.49	54	28.84	27.67	18.25	30.25	234	92	A	V
	-	-	-	-	-	-	-	-	-	-	-	-	V
	-	-	-	-	-	-	-	-	-	-	-	-	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz

WIFI 802.11b (Harmonic @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11b CH 01 2412MHz	-	4824	46.01	-27.99	74	59.24	32.45	12.43	58.11	100	0	P	H
	-	-	-	-	-	-	-	-	-	-	-	-	H
	-	-	-	-	-	-	-	-	-	-	-	-	H
	-	-	-	-	-	-	-	-	-	-	-	-	H
	-	4824	41.94	-32.06	74	55.17	32.45	12.43	58.11	100	0	P	V
	-	-	-	-	-	-	-	-	-	-	-	-	V
	-	-	-	-	-	-	-	-	-	-	-	-	V
	-	-	-	-	-	-	-	-	-	-	-	-	V
802.11b CH 06 2437MHz	-	4874	45.97	-28.03	74	59.06	32.55	12.48	58.12	100	0	P	H
	-	7311	45.15	-28.85	74	49.73	37.24	15.68	57.5	100	0	P	H
	-	-	-	-	-	-	-	-	-	-	-	-	H
	-	-	-	-	-	-	-	-	-	-	-	-	H
	-	4874	41.49	-32.51	74	54.58	32.55	12.48	58.12	100	0	P	V
	-	7311	44.68	-29.32	74	49.26	37.24	15.68	57.5	100	0	P	V
	-	-	-	-	-	-	-	-	-	-	-	-	V
	-	-	-	-	-	-	-	-	-	-	-	-	V
802.11b CH 11 2462MHz	-	4924	44.93	-29.07	74	57.89	32.65	12.52	58.13	100	0	P	H
	-	7386	43.97	-30.03	74	48.37	37.34	15.66	57.4	100	0	P	H
	-	-	-	-	-	-	-	-	-	-	-	-	H
	-	-	-	-	-	-	-	-	-	-	-	-	H
	-	4924	41.39	-32.61	74	54.35	32.65	12.52	58.13	100	0	P	V
	-	7386	44.14	-29.86	74	48.54	37.34	15.66	57.4	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 802.11g (Band Edge @ 3m)

WIFI Ant. 1	Note - -	Frequency - (MHz)	Level - (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. - (H/V)
802.11g CH 01 2412MHz	-	2390	61.51	-12.49	74	46.29	27.41	18.09	30.28	179	327	P	H
	-	2390	50.04	-3.96	54	34.82	27.41	18.09	30.28	179	327	A	H
	*	2412	110.35	-	-	95.03	27.47	18.13	30.28	179	327	P	H
	*	2412	102.4	-	-	87.08	27.47	18.13	30.28	179	327	A	H
	-	-	-	-	-	-	-	-	-	-	-	-	H
	-	-	-	-	-	-	-	-	-	-	-	-	H
	-	2389.905	57.58	-16.42	74	42.36	27.41	18.09	30.28	219	88	P	V
	-	2390	46.57	-7.43	54	31.35	27.41	18.09	30.28	219	88	A	V
	*	2412	106.05	-	-	90.73	27.47	18.13	30.28	219	88	P	V
	*	2412	98.56	-	-	83.24	27.47	18.13	30.28	219	88	A	V
	-	-	-	-	-	-	-	-	-	-	-	-	V
	-	-	-	-	-	-	-	-	-	-	-	-	V
802.11g CH 06 2437MHz	-	2333.66	56.11	-17.89	74	41.14	27.27	18	30.3	172	330	P	H
	-	2383.78	44.86	-9.14	54	29.66	27.4	18.08	30.28	172	330	A	H
	*	2437	109.85	-	-	94.41	27.54	18.17	30.27	172	330	P	H
	*	2437	102.02	-	-	86.58	27.54	18.17	30.27	172	330	A	H
	-	2489.92	56.76	-17.24	74	41.09	27.67	18.25	30.25	172	330	P	H
	-	2489.22	47.6	-6.4	54	31.93	27.67	18.25	30.25	172	330	A	H
	-	2366.98	55.66	-18.34	74	40.54	27.35	18.06	30.29	240	88	P	V
	-	2387.56	44.72	-9.28	54	29.5	27.41	18.09	30.28	240	88	A	V
	*	2437	106.29	-	-	90.85	27.54	18.17	30.27	240	88	P	V
	*	2437	98.48	-	-	83.04	27.54	18.17	30.27	240	88	A	V
	-	2489.43	56.98	-17.02	74	41.31	27.67	18.25	30.25	240	88	P	V
	-	2488.94	46.37	-7.63	54	30.7	27.67	18.25	30.25	240	88	A	V



802.11g CH 11 2462MHz	*	2462	107.92	-	-	92.37	27.6	18.21	30.26	170	336	P	H
	*	2462	100.27	-	-	84.72	27.6	18.21	30.26	170	336	A	H
	-	2484	66.13	-7.87	74	50.48	27.66	18.24	30.25	170	336	P	H
	-	2483.56	53.49	-0.51	54	37.84	27.66	18.24	30.25	170	336	A	H
	-	-	-	-	-	-	-	-	-	-	-	-	H
	-	-	-	-	-	-	-	-	-	-	-	-	H
	*	2462	103.93	-	-	88.38	27.6	18.21	30.26	232	79	P	V
	*	2462	96.04	-	-	80.49	27.6	18.21	30.26	232	79	A	V
	-	2484.04	62.75	-11.25	74	47.1	27.66	18.24	30.25	232	79	P	V
	-	2483.56	49.68	-4.32	54	34.03	27.66	18.24	30.25	232	79	A	V
	-	-	-	-	-	-	-	-	-	-	-	-	V
	-	-	-	-	-	-	-	-	-	-	-	-	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz

WIFI 802.11g (Harmonic @ 3m)

WIFI Ant. 1	Note -	Frequency - (MHz)	Level - (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. - (H/V)
802.11g CH 01 2412MHz	-	4824	44.64	-29.36	74	57.87	32.45	12.43	58.11	100	0	P	H
	-	-	-	-	-	-	-	-	-	-	-	-	H
	-	-	-	-	-	-	-	-	-	-	-	-	H
	-	-	-	-	-	-	-	-	-	-	-	-	H
	-	4824	40.12	-33.88	74	53.35	32.45	12.43	58.11	100	0	P	V
	-	-	-	-	-	-	-	-	-	-	-	-	V
	-	-	-	-	-	-	-	-	-	-	-	-	V
	-	-	-	-	-	-	-	-	-	-	-	-	V
802.11g CH 06 2437MHz	-	4874	41.55	-32.45	74	54.64	32.55	12.48	58.12	100	0	P	H
	-	7311	43.54	-30.46	74	48.12	37.24	15.68	57.5	100	0	P	H
	-	-	-	-	-	-	-	-	-	-	-	-	H
	-	-	-	-	-	-	-	-	-	-	-	-	H
	-	4874	38.86	-35.14	74	51.95	32.55	12.48	58.12	100	0	P	V
	-	7311	43.96	-30.04	74	48.54	37.24	15.68	57.5	100	0	P	V
	-	-	-	-	-	-	-	-	-	-	-	-	V
	-	-	-	-	-	-	-	-	-	-	-	-	V
802.11g CH 11 2462MHz	-	4924	41.15	-32.85	74	54.11	32.65	12.52	58.13	100	0	P	H
	-	7386	43.9	-30.1	74	48.3	37.34	15.66	57.4	100	0	P	H
	-	-	-	-	-	-	-	-	-	-	-	-	H
	-	-	-	-	-	-	-	-	-	-	-	-	H
	-	4924	38.92	-35.08	74	51.88	32.65	12.52	58.13	100	0	P	V
	-	7386	43.93	-30.07	74	48.33	37.34	15.66	57.4	100	0	P	V
	-	-	-	-	-	-	-	-	-	-	-	-	V
	-	-	-	-	-	-	-	-	-	-	-	-	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz

WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI Ant. 1	Note - -	Frequency - (MHz)	Level - (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. - (H/V)
802.11n HT20 CH 01 2412MHz	-	2389.38	61.76	-12.24	74	46.54	27.41	18.09	30.28	178	329	P	H
	-	2390	49.17	-4.83	54	33.95	27.41	18.09	30.28	178	329	A	H
	*	2412	108.69	-	-	93.37	27.47	18.13	30.28	178	329	P	H
	*	2412	100.91	-	-	85.59	27.47	18.13	30.28	178	329	A	H
	-	-	-	-	-	-	-	-	-	-	-	-	H
	-	-	-	-	-	-	-	-	-	-	-	-	H
	-	2390	56.5	-17.5	74	41.28	27.41	18.09	30.28	216	87	P	V
	-	2390	46.73	-7.27	54	31.51	27.41	18.09	30.28	216	87	A	V
	*	2412	104.93	-	-	89.61	27.47	18.13	30.28	216	87	P	V
	*	2412	97.07	-	-	81.75	27.47	18.13	30.28	216	87	A	V
	-	-	-	-	-	-	-	-	-	-	-	-	V
	-	-	-	-	-	-	-	-	-	-	-	-	V
802.11n HT20 CH 06 2437MHz	-	2376.08	55.74	-18.26	74	40.58	27.38	18.07	30.29	144	332	P	H
	-	2385.6	45.03	-8.97	54	29.82	27.4	18.09	30.28	144	332	A	H
	*	2437	108	-	-	92.56	27.54	18.17	30.27	144	332	P	H
	*	2437	100.25	-	-	84.81	27.54	18.17	30.27	144	332	A	H
	-	2488.03	57.38	-16.62	74	41.71	27.67	18.25	30.25	144	332	P	H
	-	2488.66	47.64	-6.36	54	31.97	27.67	18.25	30.25	144	332	A	H
	-	2380.98	55.42	-18.58	74	40.24	27.39	18.08	30.29	250	234	P	V
	-	2381.26	44.96	-9.04	54	29.78	27.39	18.08	30.29	250	234	A	V
	*	2437	104.44	-	-	89	27.54	18.17	30.27	250	234	P	V
	*	2437	96.63	-	-	81.19	27.54	18.17	30.27	250	234	A	V
	-	2486.98	56.58	-17.42	74	40.91	27.67	18.25	30.25	250	234	P	V
	-	2489.01	46	-8	54	30.33	27.67	18.25	30.25	250	234	A	V



802.11n HT20 CH 11 2462MHz	*	2462	107.34	-	-	91.79	27.6	18.21	30.26	176	333	P	H
	*	2462	99.87	-	-	84.32	27.6	18.21	30.26	176	333	A	H
	-	2484.32	66.22	-7.78	74	50.57	27.66	18.24	30.25	176	333	P	H
	-	2483.72	52.75	-1.25	54	37.1	27.66	18.24	30.25	176	333	A	H
	-	-	-	-	-	-	-	-	-	-	-	-	H
	-	-	-	-	-	-	-	-	-	-	-	-	H
	*	2462	103.77	-	-	88.22	27.6	18.21	30.26	247	233	P	V
	*	2462	95.64	-	-	80.09	27.6	18.21	30.26	247	233	A	V
	-	2483.68	62.95	-11.05	74	47.3	27.66	18.24	30.25	247	233	P	V
	-	2483.6	49.41	-4.59	54	33.76	27.66	18.24	30.25	247	233	A	V
	-	-	-	-	-	-	-	-	-	-	-	-	V
	-	-	-	-	-	-	-	-	-	-	-	-	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz

WIFI 802.11n HT20 (Harmonic @ 3m)

WIFI Ant. 1	Note -	Frequency - (MHz)	Level - (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. - (H/V)
802.11n HT20 CH 01 2412MHz	-	4824	41.29	-32.71	74	54.52	32.45	12.43	58.11	100	0	P	H
	-	-	-	-	-	-	-	-	-	-	-	-	H
	-	-	-	-	-	-	-	-	-	-	-	-	H
	-	-	-	-	-	-	-	-	-	-	-	-	H
	-	4824	38.21	-35.79	74	51.44	32.45	12.43	58.11	100	0	P	V
	-	-	-	-	-	-	-	-	-	-	-	-	V
	-	-	-	-	-	-	-	-	-	-	-	-	V
	-	-	-	-	-	-	-	-	-	-	-	-	V
802.11n HT20 CH 06 2437MHz	-	4874	42.56	-31.44	74	55.65	32.55	12.48	58.12	100	0	P	H
	-	7311	43.71	-30.29	74	48.29	37.24	15.68	57.5	100	0	P	H
	-	-	-	-	-	-	-	-	-	-	-	-	H
	-	-	-	-	-	-	-	-	-	-	-	-	H
	-	4874	38.84	-35.16	74	51.93	32.55	12.48	58.12	100	0	P	V
	-	7311	43.66	-30.34	74	48.24	37.24	15.68	57.5	100	0	P	V
	-	-	-	-	-	-	-	-	-	-	-	-	V
	-	-	-	-	-	-	-	-	-	-	-	-	V
802.11n HT20 CH 11 2462MHz	-	4924	39.83	-34.17	74	52.79	32.65	12.52	58.13	100	0	P	H
	-	7386	43.74	-30.26	74	48.14	37.34	15.66	57.4	100	0	P	H
	-	-	-	-	-	-	-	-	-	-	-	-	H
	-	-	-	-	-	-	-	-	-	-	-	-	H
	-	4924	39.42	-34.58	74	52.38	32.65	12.52	58.13	100	0	P	V
	-	7386	43.71	-30.29	74	48.11	37.34	15.66	57.4	100	0	P	V
	-	-	-	-	-	-	-	-	-	-	-	-	V
	-	-	-	-	-	-	-	-	-	-	-	-	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz

WIFI 802.11n HT40 (Band Edge @ 3m)

WIFI Ant. 1	Note - -	Frequency - (MHz)	Level - (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. - (H/V)
802.11n HT40 CH 03 2422MHz	-	2389.94	62.38	-11.62	74	47.16	27.41	18.09	30.28	154	333	P	H
	-	2389.8	51.44	-2.56	54	36.22	27.41	18.09	30.28	154	333	A	H
	*	2422	105.52	-	-	90.14	27.5	18.15	30.27	154	333	P	H
	*	2422	97.77	-	-	82.39	27.5	18.15	30.27	154	333	A	H
	-	2489.15	57.01	-16.99	74	41.34	27.67	18.25	30.25	154	333	P	H
	-	2486.7	47.5	-6.5	54	31.83	27.67	18.25	30.25	154	333	A	H
	-	2389.8	58.52	-15.48	74	43.3	27.41	18.09	30.28	229	241	P	V
	-	2389.8	47.57	-6.43	54	32.35	27.41	18.09	30.28	229	241	A	V
	*	2422	100.75	-	-	85.37	27.5	18.15	30.27	229	241	P	V
	*	2422	93.14	-	-	77.76	27.5	18.15	30.27	229	241	A	V
	-	2485.02	58.23	-15.77	74	42.57	27.66	18.25	30.25	229	241	P	V
	-	2488.38	46.74	-7.26	54	31.07	27.67	18.25	30.25	229	241	A	V
802.11n HT40 CH 06 2437MHz	-	2389.94	56.8	-17.2	74	41.58	27.41	18.09	30.28	177	334	P	H
	-	2389.94	46.7	-7.3	54	31.48	27.41	18.09	30.28	177	334	A	H
	*	2437	105.79	-	-	90.35	27.54	18.17	30.27	177	334	P	H
	*	2437	97.83	-	-	82.39	27.54	18.17	30.27	177	334	A	H
	-	2483.83	63.39	-10.61	74	47.74	27.66	18.24	30.25	177	334	P	H
	-	2484.32	52.7	-1.3	54	37.05	27.66	18.24	30.25	177	334	A	H
	-	2387.14	56.41	-17.59	74	41.19	27.41	18.09	30.28	250	239	P	V
	-	2385.32	46.13	-7.87	54	30.92	27.4	18.09	30.28	250	239	A	V
	*	2437	101.93	-	-	86.49	27.54	18.17	30.27	250	239	P	V
	*	2437	94.65	-	-	79.21	27.54	18.17	30.27	250	239	A	V
	-	2484.04	62	-12	74	46.35	27.66	18.24	30.25	250	239	P	V
	-	2483.69	49.45	-4.55	54	33.8	27.66	18.24	30.25	250	239	A	V



802.11n HT40 CH 09 2452MHz	-	2332.54	56.53	-17.47	74	41.57	27.26	18	30.3	150	333	P	H
	-	2378.18	45.99	-8.01	54	30.83	27.38	18.07	30.29	150	333	A	H
	*	2452	102.44	-	-	86.93	27.58	18.19	30.26	150	333	P	H
	*	2452	95.01	-	-	79.5	27.58	18.19	30.26	150	333	A	H
	-	2486.63	63.28	-10.72	74	47.61	27.67	18.25	30.25	150	333	P	H
	-	2484.39	53.12	-0.88	54	37.46	27.66	18.25	30.25	150	333	A	H
	-	2328.2	56.02	-17.98	74	41.08	27.25	17.99	30.3	251	231	P	V
	-	2382.38	45.85	-8.15	54	30.67	27.39	18.08	30.29	251	231	A	V
	*	2452	99.08	-	-	83.57	27.58	18.19	30.26	251	231	P	V
	*	2452	91.63	-	-	76.12	27.58	18.19	30.26	251	231	A	V
	-	2484.6	59.78	-14.22	74	44.12	27.66	18.25	30.25	251	231	P	V
	-	2484.74	49.47	-4.53	54	33.81	27.66	18.25	30.25	251	231	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Emission below 1GHz

2.4GHz WIFI 802.11g (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 802.11g LF	-	120.21	25.28	-18.22	43.5	38.13	17.53	1.99	32.37	-	-	P	H
	-	230.79	30.05	-15.95	46	43.31	16.34	2.77	32.37	-	-	P	H
	-	576.11	28.9	-17.1	46	31.83	25.55	4.18	32.66	-	-	P	H
	-	653.71	30.34	-15.66	46	32.23	26.3	4.41	32.6	-	-	P	H
	-	729.37	31.91	-14.09	46	32.17	27.56	4.66	32.48	-	-	P	H
	-	836.07	39.61	-6.39	46	37.96	28.8	5	32.15	100	0	P	H
	-	-	-	-	-	-	-	-	-	-	-	-	H
	-	-	-	-	-	-	-	-	-	-	-	-	H
	-	-	-	-	-	-	-	-	-	-	-	-	H
	-	-	-	-	-	-	-	-	-	-	-	-	H
	-	-	-	-	-	-	-	-	-	-	-	-	H
	-	-	-	-	-	-	-	-	-	-	-	-	H
	-	-	-	-	-	-	-	-	-	-	-	-	H
	-	30	31.4	-8.6	40	38.46	24.48	0.91	32.45	100	0	P	V
	-	37.76	30.7	-9.3	40	41.68	20.41	1.05	32.44	-	-	P	V
	-	107.6	29.44	-14.06	43.5	43.08	16.86	1.87	32.37	-	-	P	V
	-	605.21	35.16	-10.84	46	37.85	25.67	4.31	32.67	-	-	P	V
	-	895.24	34.52	-11.48	46	32.14	29.02	5.18	31.82	-	-	P	V
	-	959.26	34.55	-11.45	46	29.41	30.99	5.42	31.27	-	-	P	V
	-	-	-	-	-	-	-	-	-	-	-	-	V
	-	-	-	-	-	-	-	-	-	-	-	-	V
	-	-	-	-	-	-	-	-	-	-	-	-	V
	-	-	-	-	-	-	-	-	-	-	-	-	V
	-	-	-	-	-	-	-	-	-	-	-	-	V
-	-	-	-	-	-	-	-	-	-	-	-	V	
Remark	1. No other spurious found. 2. All results are PASS against limit line.												



Note symbol

*	Fundamental Frequency which can be ignored. However, the level of any unwanted emissions shall not exceed the level of the fundamental frequency.
!	Test result is over limit line.
P/A	P eak or A verage
H/V	H orizontal or V ertical



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

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11b		2390	55.45	-18.55	74	54.51	32.22	4.58	35.86	103	308	P	H
CH 01													
2412MHz		2390	43.54	-10.46	54	42.6	32.22	4.58	35.86	103	308	A	H

1. Path Loss(dB) = Cable loss(dB) + Filter loss(dB) + Attenuator loss(dB)
2. Level(dBμV/m) =
Antenna Factor(dB/m) + Path Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)
3. Over Limit(dB) = Level(dBμV/m) – Limit Line(dBμV/m)

For Peak Limit @ 2390MHz:

1. Level(dBμV/m)
= Antenna Factor(dB/m) + Path Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)
= 32.22(dB/m) + 4.58(dB) + 54.51(dBμV) – 35.86 (dB)
= 55.45 (dBμV/m)
2. Over Limit(dB)
= Level(dBμV/m) – Limit Line(dBμV/m)
= 55.45(dBμV/m) – 74(dBμV/m)
= -18.55(dB)

For Average Limit @ 2390MHz:

1. Level(dBμV/m)
= Antenna Factor(dB/m) + Path Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)
= 32.22(dB/m) + 4.58(dB) + 42.6(dBμV) – 35.86 (dB)
= 43.54 (dBμV/m)
2. Over Limit(dB)
= Level(dBμV/m) – Limit Line(dBμV/m)
= 43.54(dBμV/m) – 54(dBμV/m)
= -10.46(dB)

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



Appendix D. Radiated Spurious Emission Plots

Test Engineer :	Jacky Hung 、 Andy Yang 、 CR Liao	Temperature :	20~25°C
		Relative Humidity :	50~60%

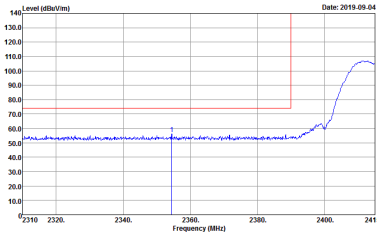
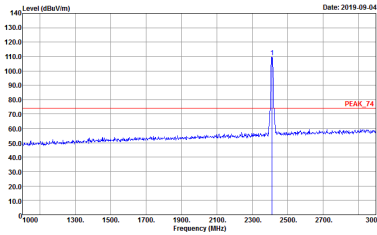
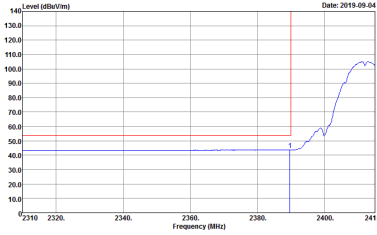
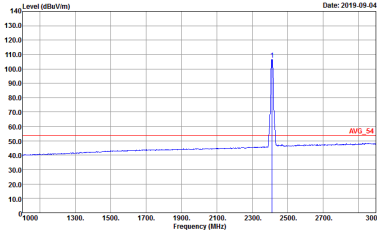
Note symbol

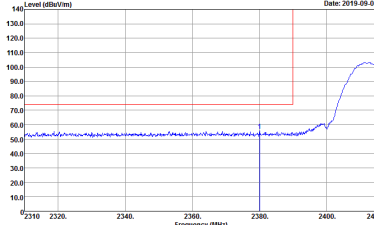
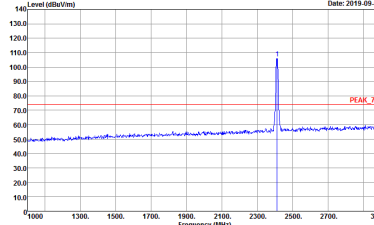
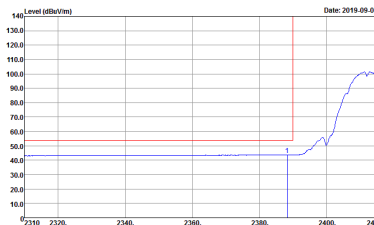
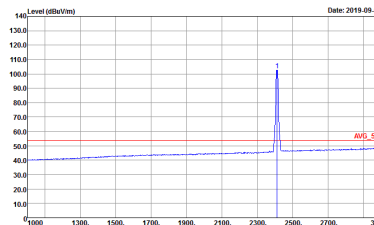
-L	Low channel location
-R	High channel location

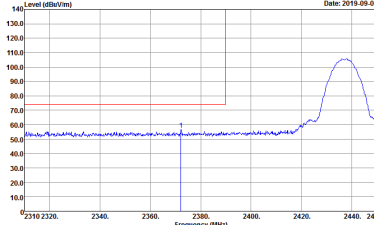
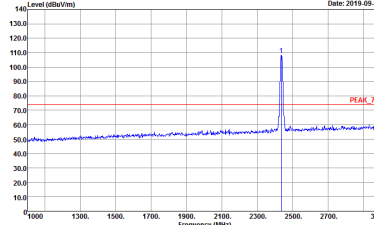
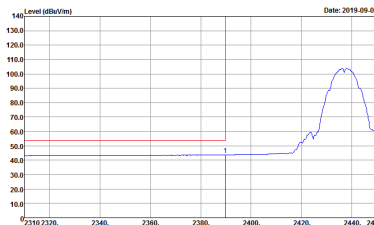
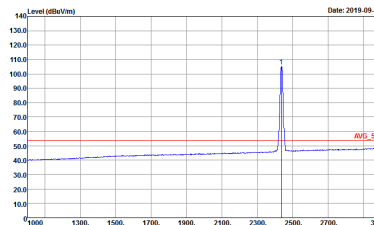


2.4GHz 2400~2483.5MHz

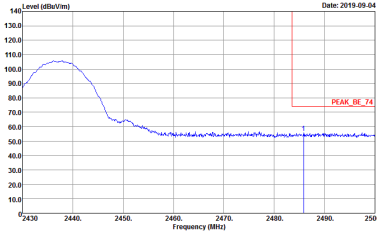
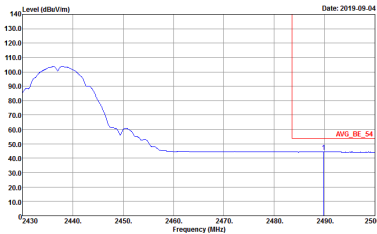
WIFI 802.11b (Band Edge @ 3m)

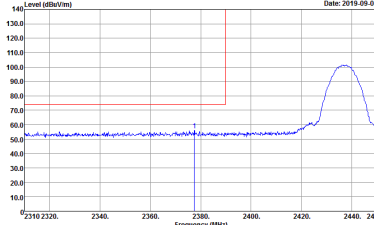
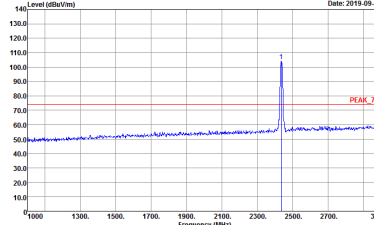
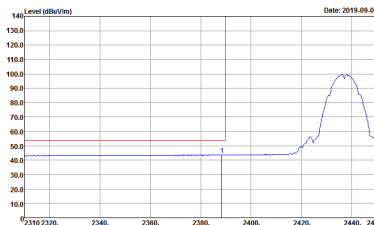
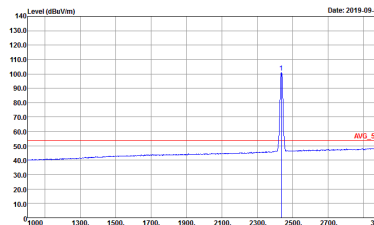
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH01 2412MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH16-HY Condition : PEAK_BE_74 3m 91200_1522 HORIZONTAL Detector : Peak Project : 981324-01	 Site : 03CH16-HY Condition : PEAK_74 3m 91200_1522 HORIZONTAL Detector : Peak Project : 981324-01
Avg.	 Site : 03CH16-HY Condition : AVG_BE_54 3m 91200_1522 HORIZONTAL Detector : Peak Project : 981324-01	 Site : 03CH16-HY Condition : AVG_54 3m 91200_1522 HORIZONTAL Detector : Peak Project : 981324-01

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH01 2412MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH16-HY Condition : PEAK_BE_74 3m 91200_1522 VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Project : 981324-01	 Site : 03CH16-HY Condition : PEAK_74 3m 91200_1522 VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Project : 981324-01
Avg.	 Site : 03CH16-HY Condition : AVG_BE_54 3m 91200_1522 VERTICAL Detector : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Project : Peak Project : 981324-01	 Site : 03CH16-HY Condition : AVG_54 3m 91200_1522 VERTICAL Detector : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Project : Peak Project : 981324-01

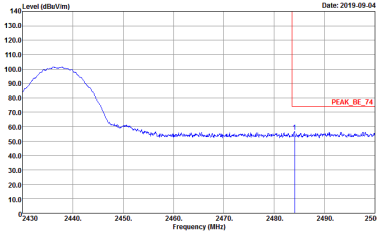
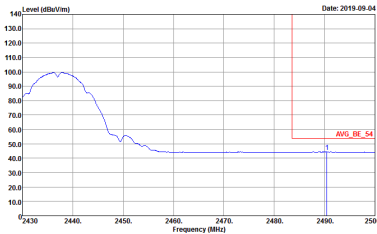
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH06 2437MHz - L	
1	Horizontal	Fundamental
Peak	 Site : 03CH16-HY Condition : PEAK_BE_74 3m 91200_1522 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 981324-01	 Site : 03CH16-HY Condition : PEAK_74 3m 91200_1522 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 981324-01
Avg.	 Site : 03CH16-HY Condition : AVG_BE_54 3m 91200_1522 HORIZONTAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 981324-01	 Site : 03CH16-HY Condition : AVG_54 3m 91200_1522 HORIZONTAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 981324-01

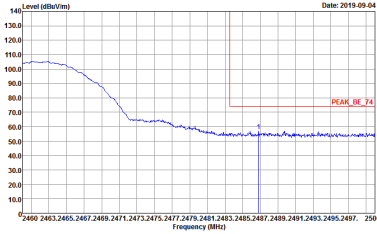
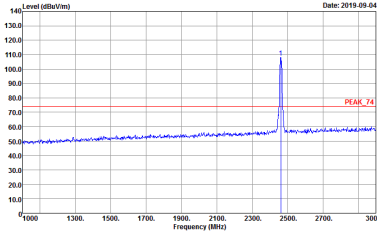
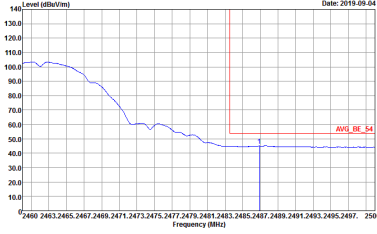
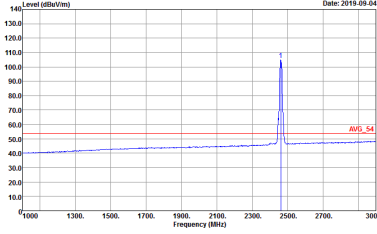


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH06 2437MHz - R	
1	Horizontal	Fundamental
Peak	 Site : 03CH16-HY Condition : PEAK_BE_74 3m 91200_1522 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 981324-01	Left blank
Avg.	 Site : 03CH16-HY Condition : AVG_BE_54 3m 91200_1522 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 981324-01	Left blank

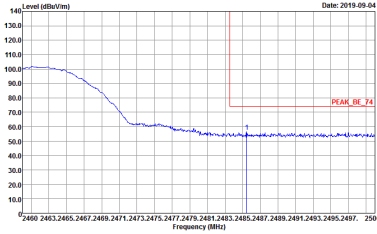
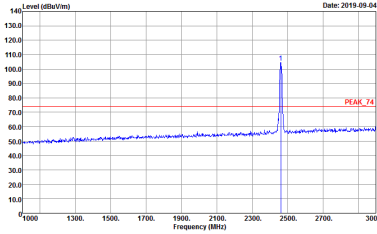
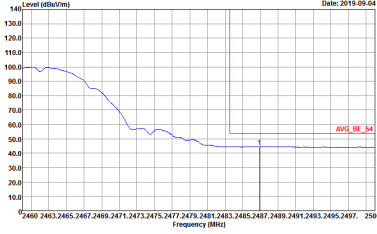
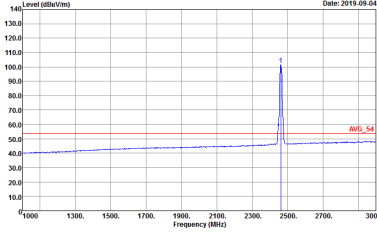
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH06 2437MHz - L	
1	Vertical	Fundamental
Peak	 Site : 03CH16-HY Condition : PEAK_BE_74 3m 91200_1522 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 981324-01	 Site : 03CH16-HY Condition : PEAK_74 3m 91200_1522 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 981324-01
Avg.	 Site : 03CH16-HY Condition : AVG_BE_54 3m 91200_1522 VERTICAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 981324-01	 Site : 03CH16-HY Condition : AVG_54 3m 91200_1522 VERTICAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 981324-01



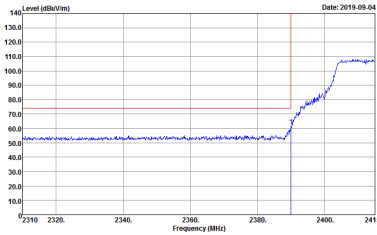
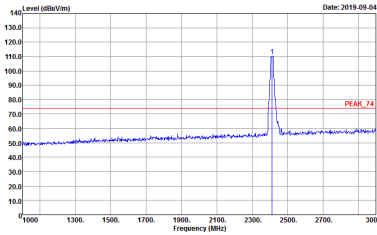
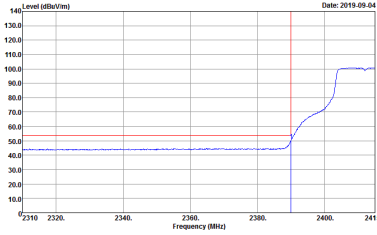
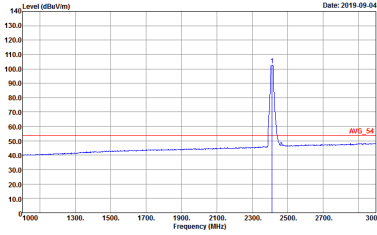
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH06 2437MHz - R	
1	Vertical	Fundamental
Peak	 Site : 03CH16-HY Condition : PEAK_BE_74 3m 91200_1522 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 981324-01	Left blank
Avg.	 Site : 03CH16-HY Condition : AVG_BE_54 3m 91200_1522 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 981324-01	Left blank

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH11 2462MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH16-HY Condition : PEAK_BE_74 3m 91200_1522 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 981324-01	 Site : 03CH16-HY Condition : PEAK_74 3m 91200_1522 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 981324-01
Avg.	 Site : 03CH16-HY Condition : AVG_BE_54 3m 91200_1522 HORIZONTAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 981324-01	 Site : 03CH16-HY Condition : AVG_54 3m 91200_1522 HORIZONTAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 981324-01

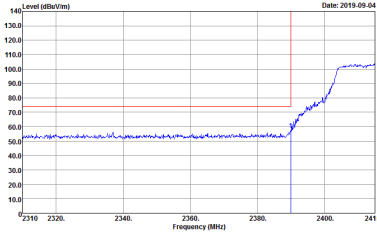
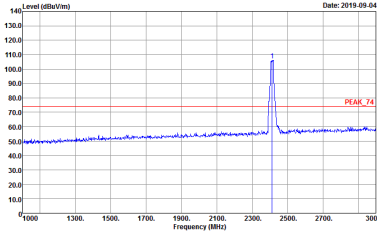
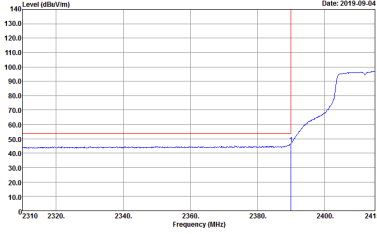
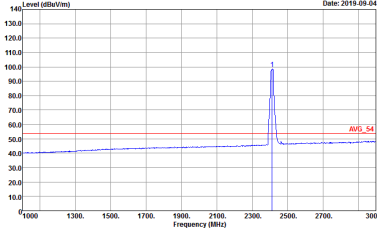


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH11 2462MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH16-HY Condition : PEAK_BE_74 3m 91200_1522 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 981324-01	 Site : 03CH16-HY Condition : PEAK_74 3m 91200_1522 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 981324-01
Avg.	 Site : 03CH16-HY Condition : AVG_BE_54 3m 91200_1522 VERTICAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 981324-01	 Site : 03CH16-HY Condition : AVG_54 3m 91200_1522 VERTICAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 981324-01

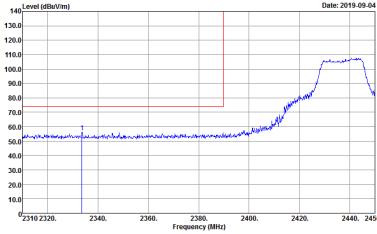
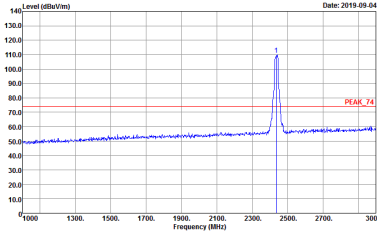
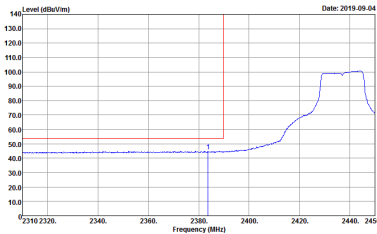
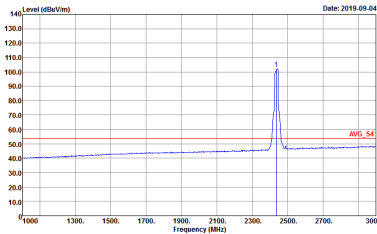
2.4GHz 2400~2483.5MHz
WIFI 802.11g (Band Edge @ 3m)

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH01 2412MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH16-HY Condition : PEAK_BE_74 3m 91200_1522 HORIZONTAL Detector : Peak Project : 981324-01	 Site : 03CH16-HY Condition : PEAK_74 3m 91200_1522 HORIZONTAL Detector : Peak Project : 981324-01
Avg.	 Site : 03CH16-HY Condition : AVG_BE_54 3m 91200_1522 HORIZONTAL Detector : Peak Project : 981324-01	 Site : 03CH16-HY Condition : AVG_54 3m 91200_1522 HORIZONTAL Detector : Peak Project : 981324-01

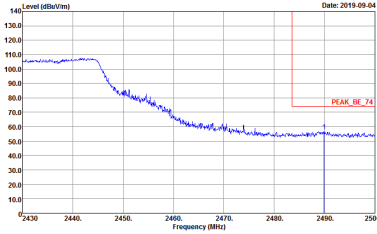
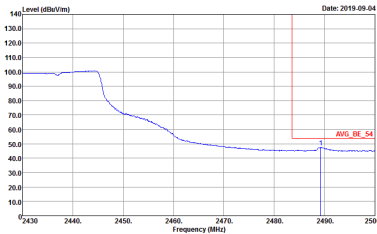


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH01 2412MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH16-HY Condition : PEAK_BE_74 3m 91200_1522 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 981324-01	 Site : 03CH16-HY Condition : PEAK_74 3m 91200_1522 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 981324-01
Avg.	 Site : 03CH16-HY Condition : AVG_BE_54 3m 91200_1522 VERTICAL RBW:1000.000KHz VBW:1000KHz SWT:Auto Detector : Peak Project : 981324-01	 Site : 03CH16-HY Condition : AVG_54 3m 91200_1522 VERTICAL RBW:1000.000KHz VBW:1000KHz SWT:Auto Detector : Peak Project : 981324-01

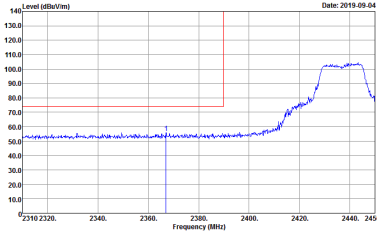
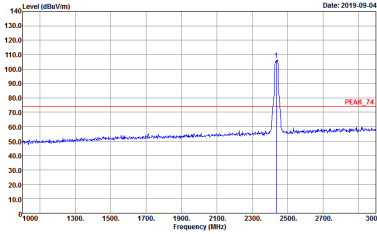
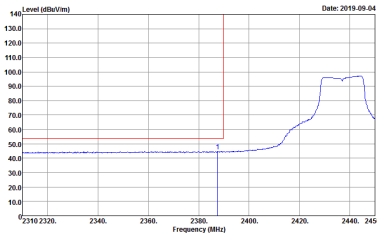
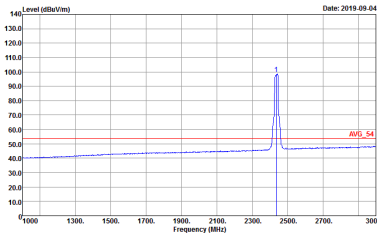


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH06 2437MHz - L	
1	Horizontal	Fundamental
Peak	 Site : 03CH16-HY Condition : PEAK_BE_74 3m 91200_1522 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 981324-01	 Site : 03CH16-HY Condition : PEAK_74 3m 91200_1522 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 981324-01
Avg.	 Site : 03CH16-HY Condition : AVG_BE_54 3m 91200_1522 HORIZONTAL RBW:1000.000KHz VBW:1000KHz SWT:Auto Detector : Peak Project : 981324-01	 Site : 03CH16-HY Condition : AVG_54 3m 91200_1522 HORIZONTAL RBW:1000.000KHz VBW:1000KHz SWT:Auto Detector : Peak Project : 981324-01

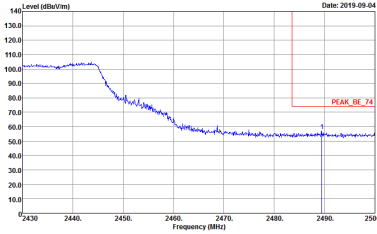
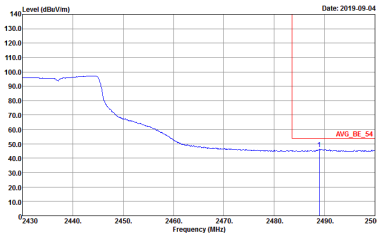


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH06 2437MHz - R	
1	Horizontal	Fundamental
Peak	 Site : 03CH16-HY Condition : PEAK_BE_74 3m 91200_1522 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 981324-01	Left blank
Avg.	 Site : 03CH16-HY Condition : AVG_BE_54 3m 91200_1522 HORIZONTAL RBW:1000.000KHz VBW:1000KHz SWT:Auto Detector : Peak Project : 981324-01	Left blank

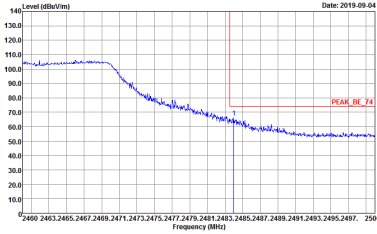
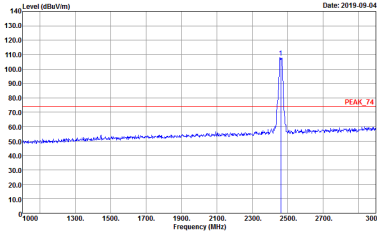
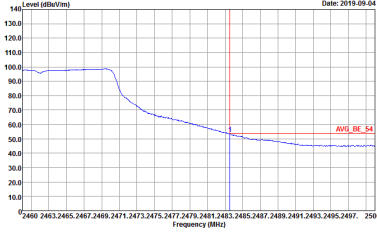
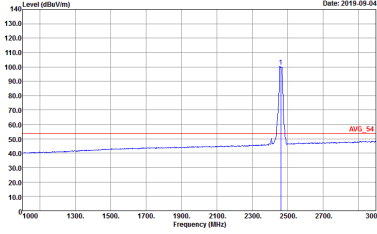


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH06 2437MHz - L	
1	Vertical	Fundamental
Peak	 Site : 03CH16-HY Condition : PEAK_BE_74 3m 91200_1522 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 981324-01	 Site : 03CH16-HY Condition : PEAK_74 3m 91200_1522 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 981324-01
Avg.	 Site : 03CH16-HY Condition : AVG_BE_54 3m 91200_1522 VERTICAL RBW:1000.000KHz VBW:1000KHz SWT:Auto Detector : Peak Project : 981324-01	 Site : 03CH16-HY Condition : AVG_54 3m 91200_1522 VERTICAL RBW:1000.000KHz VBW:1000KHz SWT:Auto Detector : Peak Project : 981324-01

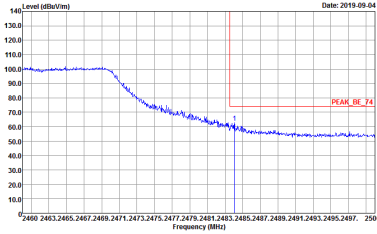
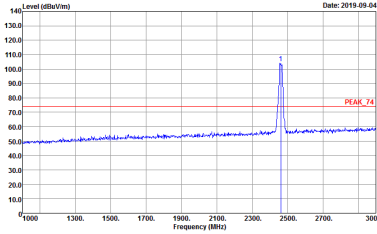
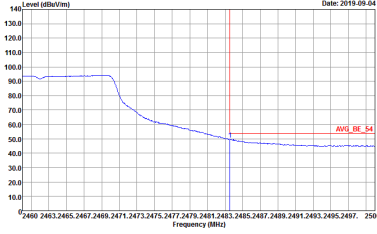
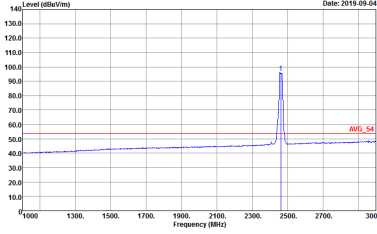


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH06 2437MHz - R	
1	Vertical	Fundamental
Peak	 Site : 03CH16-HY Condition : PEAK_BE_74 3m 91200_1522 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 981324-01	Left Blank
Avg.	 Site : 03CH16-HY Condition : AVG_BE_54 3m 91200_1522 VERTICAL RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 981324-01	Left Blank

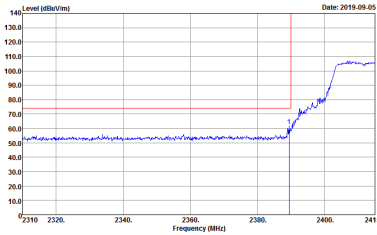
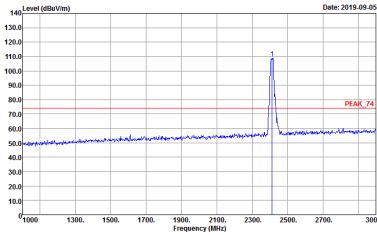
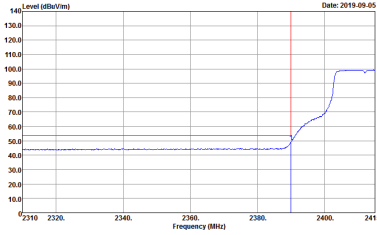
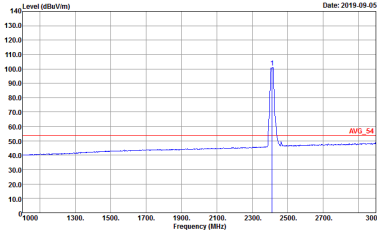


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH11 2462MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH16-HY Condition : PEAK_BE_74 3m 91200_1522 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Setting : 981324-01 Setting : 14.5	 Site : 03CH16-HY Condition : PEAK_74 3m 91200_1522 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Setting : 981324-01 Setting : 14.5
Avg.	 Site : 03CH16-HY Condition : AVG_BE_54 3m 91200_1522 HORIZONTAL Detector : RBW:1000.000KHz VBW:1000KHz SWT:Auto Project : Peak Setting : 981324-01 Setting : 14.5	 Site : 03CH16-HY Condition : AVG_54 3m 91200_1522 HORIZONTAL Detector : RBW:1000.000KHz VBW:1000KHz SWT:Auto Project : Peak Setting : 981324-01 Setting : 14.5



WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH11 2462MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH16-HY Condition : PEAK_BE_74 3m 91200_1522 VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Setting : 981324-01 Setting : 14.5	 Site : 03CH16-HY Condition : PEAK_74 3m 91200_1522 VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Setting : 981324-01 Setting : 14.5
Avg.	 Site : 03CH16-HY Condition : AVG_BE_54 3m 91200_1522 VERTICAL Detector : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Project : Peak Setting : 981324-01 Setting : 14.5	 Site : 03CH16-HY Condition : AVG_54 3m 91200_1522 VERTICAL Detector : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Project : Peak Setting : 981324-01 Setting : 14.5

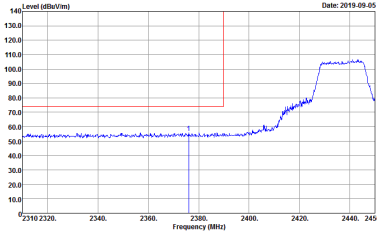
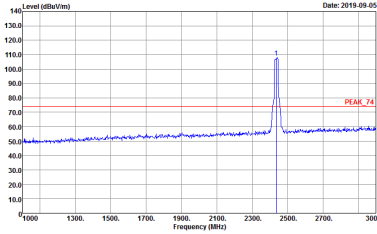
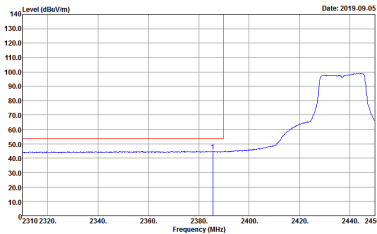
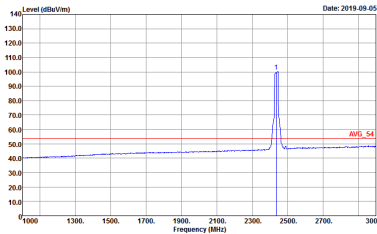
2.4GHz 2400~2483.5MHz
WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH01 2412MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH16-HY Condition : PEAK_BE_74_3m 91200_1522 HORIZONTAL Detector : Peak Project : 981324-01	 Site : 03CH16-HY Condition : PEAK_74_3m 91200_1522 HORIZONTAL Detector : Peak Project : 981324-01
Avg.	 Site : 03CH16-HY Condition : AVG_BE_54_3m 91200_1522 HORIZONTAL Detector : Peak Project : 981324-01	 Site : 03CH16-HY Condition : AVG_54_3m 91200_1522 HORIZONTAL Detector : Peak Project : 981324-01

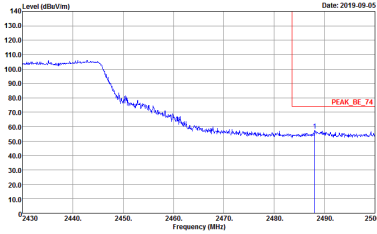
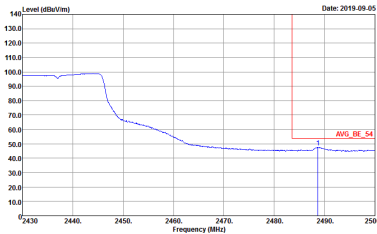


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH01 2412MHz	
1	Vertical	Fundamental
Peak	Site : 03CH16-HY Condition : PEAK_BE_74 3m 91200_1522 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 981324-01	Site : 03CH16-HY Condition : PEAK_74 3m 91200_1522 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 981324-01
Avg.	Site : 03CH16-HY Condition : AVG_BE_54 3m 91200_1522 VERTICAL RBW:1000.000KHz VBW:1000KHz SWT:Auto Detector : Peak Project : 981324-01	Site : 03CH16-HY Condition : AVG_54 3m 91200_1522 VERTICAL RBW:1000.000KHz VBW:1000KHz SWT:Auto Detector : Peak Project : 981324-01

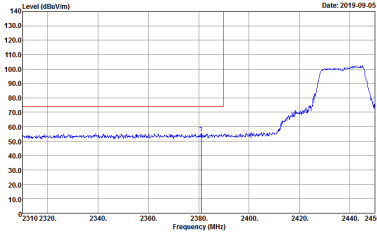
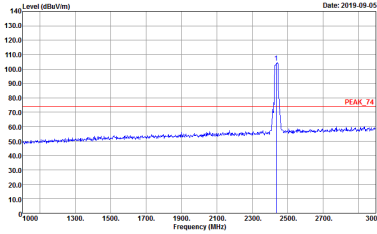
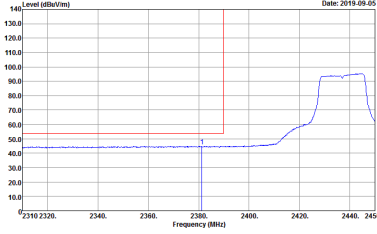
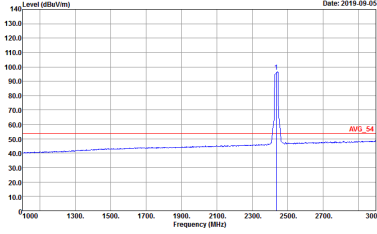


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH06 2437MHz - L	
1	Horizontal	Fundamental
Peak	 Site : 03CH16-HY Condition : PEAK_BE_74 3m 91200_1522 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 981324-01	 Site : 03CH16-HY Condition : PEAK_74 3m 91200_1522 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 981324-01
Avg.	 Site : 03CH16-HY Condition : AVG_BE_54 3m 91200_1522 HORIZONTAL RBW:1000.000KHz VBW:1000KHz SWT:Auto Detector : Peak Project : 981324-01	 Site : 03CH16-HY Condition : AVG_54 3m 91200_1522 HORIZONTAL RBW:1000.000KHz VBW:1000KHz SWT:Auto Detector : Peak Project : 981324-01

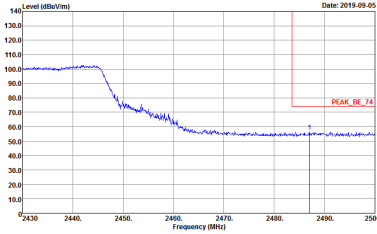
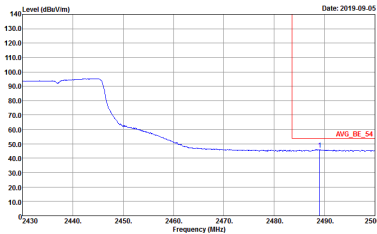


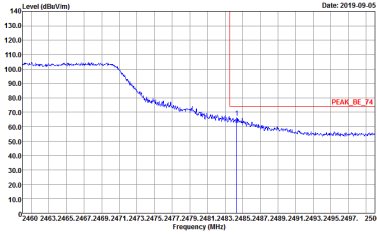
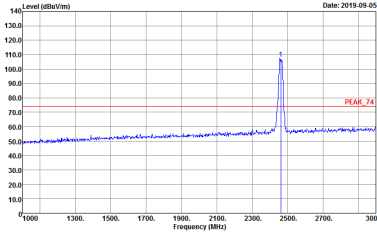
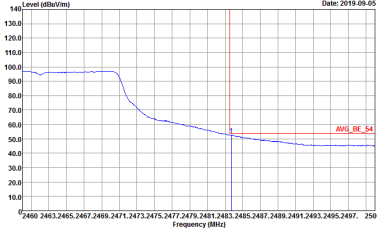
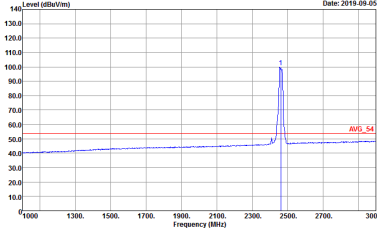
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH06 2437MHz - R	
1	Horizontal	Fundamental
Peak	 Site : 03CH16-HY Condition : PEAK_BE_74 3m 91200_1522 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 981324-01	Left blank
Avg.	 Site : 03CH16-HY Condition : AVG_BE_54 3m 91200_1522 HORIZONTAL RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 981324-01	Left blank

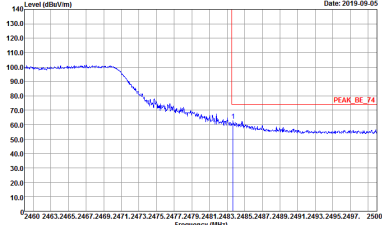
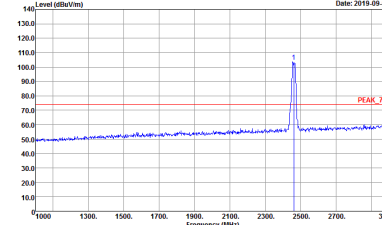
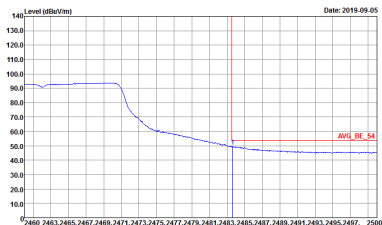
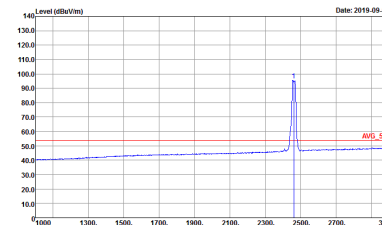


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH06 2437MHz - L	
1	Vertical	Fundamental
Peak	 Site : 03CH16-HY Condition : PEAK_BE_74 3m 91200_1522 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 981324-01	 Site : 03CH16-HY Condition : PEAK_74 3m 91200_1522 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 981324-01
Avg.	 Site : 03CH16-HY Condition : AVG_BE_54 3m 91200_1522 VERTICAL RBW:1000.000KHz VBW:1000KHz SWT:Auto Detector : Peak Project : 981324-01	 Site : 03CH16-HY Condition : AVG_54 3m 91200_1522 VERTICAL RBW:1000.000KHz VBW:1000KHz SWT:Auto Detector : Peak Project : 981324-01



WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH06 2437MHz - R	
1	Vertical	Fundamental
Peak	 Site : 03CH16-HY Condition : PEAK_BE_74 3m 91200_1522 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 981324-01	Left Blank
Avg.	 Site : 03CH16-HY Condition : AVG_BE_54 3m 91200_1522 VERTICAL RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 981324-01	Left Blank

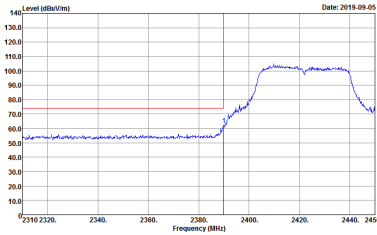
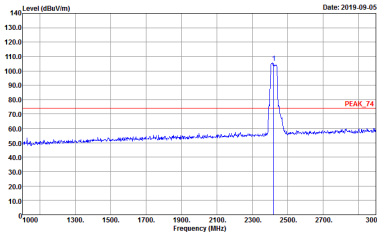
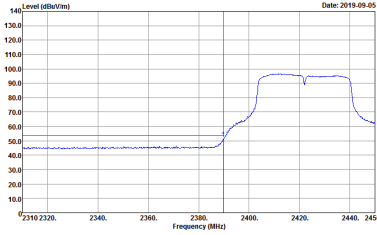
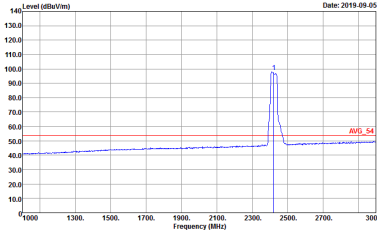
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH11 2462MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH16-HY Condition : PEAK_BE_74 3m 91200_1522 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Setting : 981324-01 Setting : 14	 Site : 03CH16-HY Condition : PEAK_74 3m 91200_1522 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Setting : 981324-01 Setting : 14
	 Site : 03CH16-HY Condition : AVG_BE_54 3m 91200_1522 HORIZONTAL Detector : RBW:1000.000KHz VBW:1000KHz SWT:Auto Project : Peak Setting : 981324-01 Setting : 14	 Site : 03CH16-HY Condition : AVG_54 3m 91200_1522 HORIZONTAL Detector : RBW:1000.000KHz VBW:1000KHz SWT:Auto Project : Peak Setting : 981324-01 Setting : 14
Avg.		

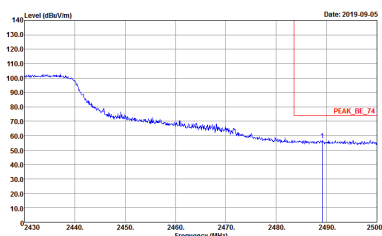
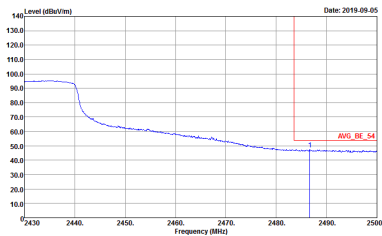
WIFI	2.4GHz 2400~2483.5MHz Fundamental @ 3m	
ANT	802.11n HT20 CH11 2462MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH16-HY Condition : PEAK_BE_74 3m 91200_1522 VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Setting : 981324-01 Setting : 14	 Site : 03CH16-HY Condition : PEAK_74 3m 91200_1522 VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Setting : 981324-01 Setting : 14
	 Site : 03CH16-HY Condition : AVG_BE_54 3m 91200_1522 VERTICAL Detector : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Project : Peak Setting : 981324-01 Setting : 14	 Site : 03CH16-HY Condition : AVG_54 3m 91200_1522 VERTICAL Detector : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Project : Peak Setting : 981324-01 Setting : 14

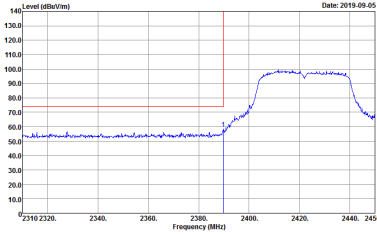
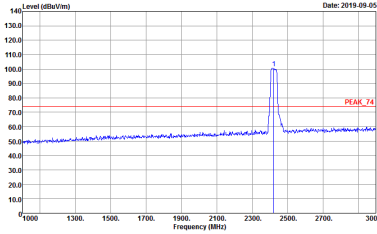
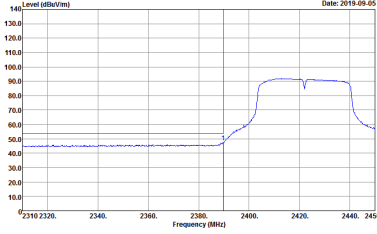
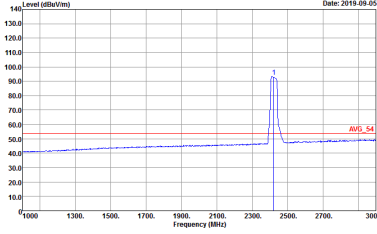


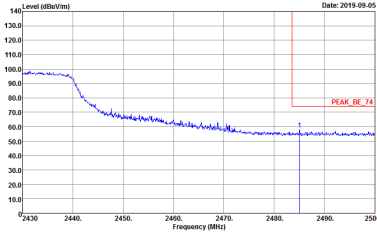
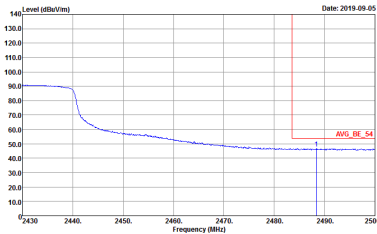
2.4GHz 2400~2483.5MHz

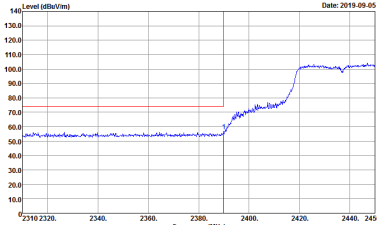
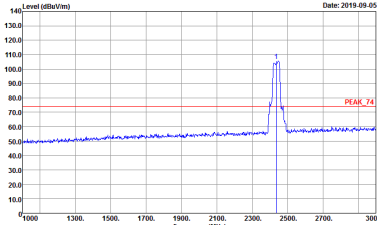
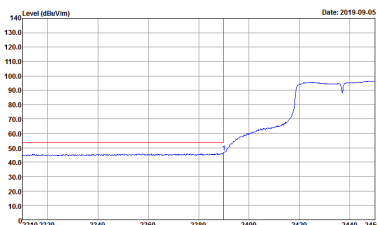
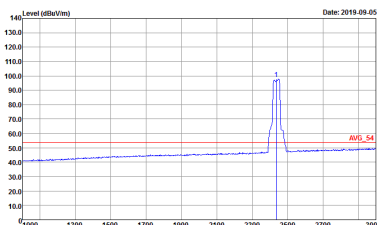
WIFI 802.11n HT40 (Band Edge @ 3m)

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH03 2422MHz - L	
1	Horizontal	Fundamental
Peak	 Site : 03CH16-HY Condition : PEAK_BE_74 3m 91200_1522 HORIZONTAL Detector : Peak Project : 981324-01	 Site : 03CH16-HY Condition : PEAK_74 3m 91200_1522 HORIZONTAL Detector : Peak Project : 981324-01
Avg.	 Site : 03CH16-HY Condition : AVG_BE_54 3m 91200_1522 HORIZONTAL Detector : Peak Project : 981324-01	 Site : 03CH16-HY Condition : AVG_54 3m 91200_1522 HORIZONTAL Detector : Peak Project : 981324-01

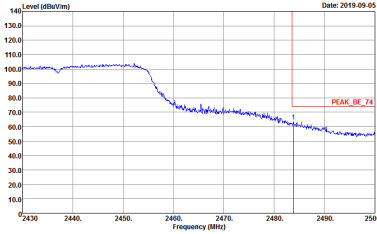
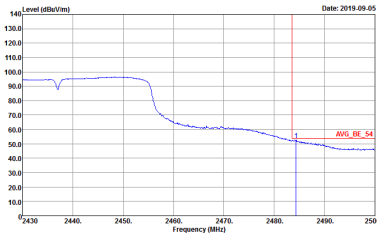
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH03 2422MHz - R	
1	Horizontal	Fundamental
Peak	 Site : 03CH16-HY Condition : PEAK_BE_74 3m 91200_1522 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 981324-01	Left Blank
Avg.	 Site : 03CH16-HY Condition : AVG_BE_54 3m 91200_1522 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 981324-01	Left Blank

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH03 2422MHz - L	
1	Vertical	Fundamental
Peak	 Site : 03CH16-HY Condition : PEAK_BE_74 3m 91200_1522 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 981324-01	 Site : 03CH16-HY Condition : PEAK_74 3m 91200_1522 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 981324-01
Avg.	 Site : 03CH16-HY Condition : AVG_BE_54 3m 91200_1522 VERTICAL RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 981324-01	 Site : 03CH16-HY Condition : AVG_54 3m 91200_1522 VERTICAL RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 981324-01

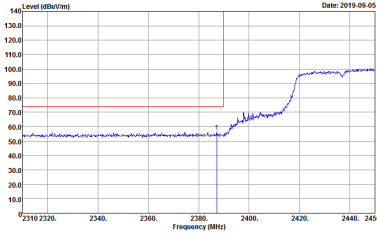
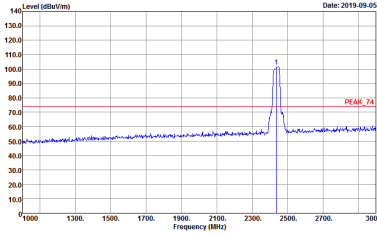
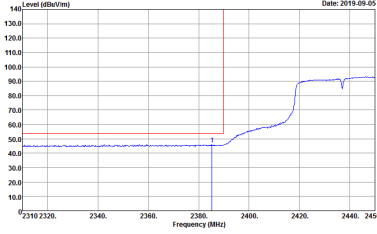
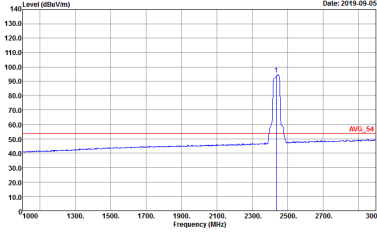
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH03 2422MHz - R	
1	Vertical	Fundamental
Peak	 Site : 03CH16-HY Condition : PEAK_BE_74 3m 91200_1522 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 981324-01	Left blank
Avg.	 Site : 03CH16-HY Condition : AVG_BE_54 3m 91200_1522 VERTICAL RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 981324-01	Left blank

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH06 2437MHz - L	
1	Horizontal	Fundamental
Peak	 Site : 03CH16-HY Condition : PEAK_BE_74 3m 91200_1522 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 981324-01	 Site : 03CH16-HY Condition : PEAK_74 3m 91200_1522 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 981324-01
Avg.	 Site : 03CH16-HY Condition : AVG_BE_54 3m 91200_1522 HORIZONTAL RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 981324-01	 Site : 03CH16-HY Condition : AVG_54 3m 91200_1522 HORIZONTAL RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 981324-01

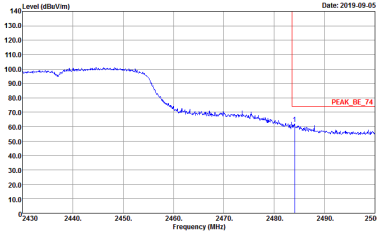
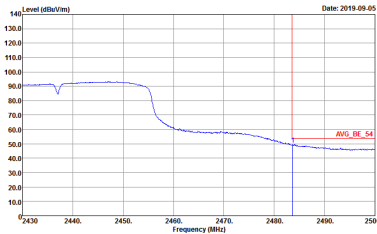


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH06 2437MHz - R	
1	Horizontal	Fundamental
Peak	 Site : 03CH16-HY Condition : PEAK_BE_74 3m 91200_1522 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 981324-01	Left blank
Avg.	 Site : 03CH16-HY Condition : AVG_BE_54 3m 91200_1522 HORIZONTAL RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 981324-01	Left blank

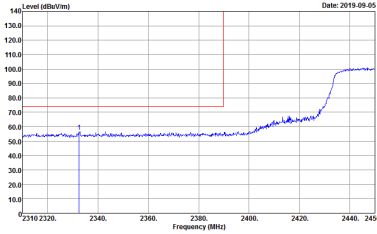
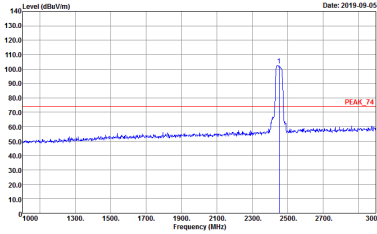
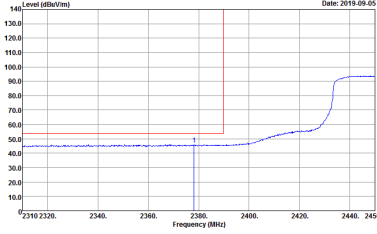
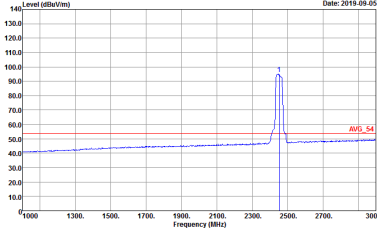


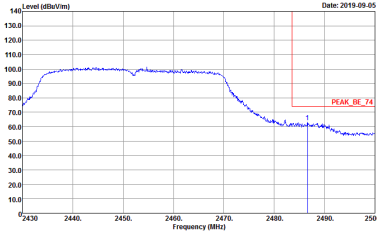
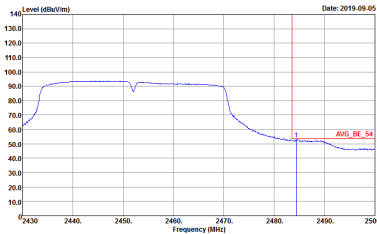
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH06 2437MHz - L	
1	Vertical	Fundamental
Peak	 Site : 03CH16-HY Condition : PEAK_BE_74 3m 91200_1522 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 981324-01	 Site : 03CH16-HY Condition : PEAK_74 3m 91200_1522 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 981324-01
Avg.	 Site : 03CH16-HY Condition : AVG_BE_54 3m 91200_1522 VERTICAL RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 981324-01	 Site : 03CH16-HY Condition : AVG_54 3m 91200_1522 VERTICAL RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 981324-01



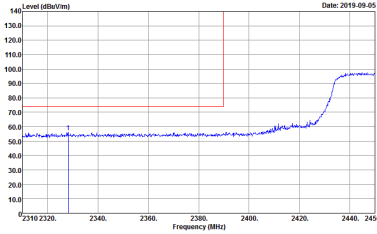
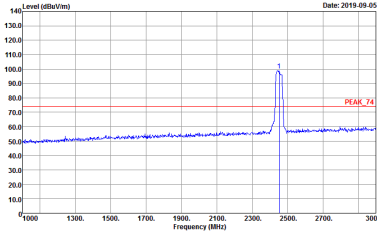
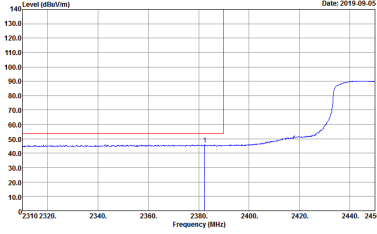
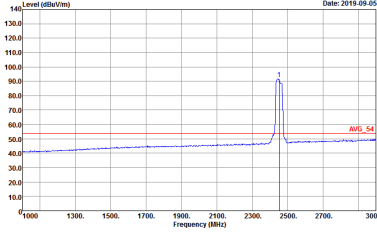
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH06 2437MHz - R	
1	Horizontal	Fundamental
Peak	 Site : 03CH16-HY Condition : PEAK_BE_74 3m 91200_1522 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 981324-01	Left blank
Avg.	 Site : 03CH16-HY Condition : AVG_BE_54 3m 91200_1522 VERTICAL RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 981324-01	Left blank

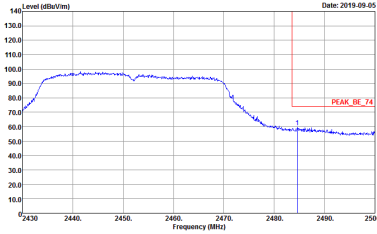
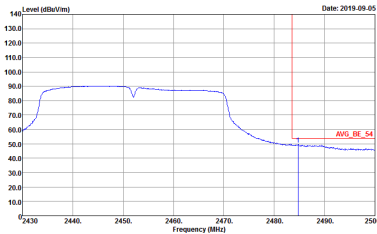


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH09 2452MHz - L	
1	Horizontal	Fundamental
Peak	 Site : 03CH16-HY Condition : PEAK_BE_74 3m 91200_1522 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Setting : 981324-01 Setting : 11.5	 Site : 03CH16-HY Condition : PEAK_74 3m 91200_1522 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Setting : 981324-01 Setting : 11.5
Avg.	 Site : 03CH16-HY Condition : AVG_BE_54 3m 91200_1522 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Setting : 981324-01 Setting : 11.5	 Site : 03CH16-HY Condition : AVG_54 3m 91200_1522 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Setting : 981324-01 Setting : 11.5

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH09 2452MHz - R	
1	Horizontal	Fundamental
Peak	 Site : 03CH16-HY Condition : PEAK_BE_74 3m 91200_1522 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 981324-01 Setting : 11.5	Left blank
Avg.	 Site : 03CH16-HY Condition : AVG_BE_54 3m 91200_1522 HORIZONTAL RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 981324-01 Setting : 11.5	Left blank



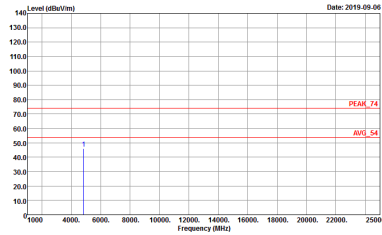
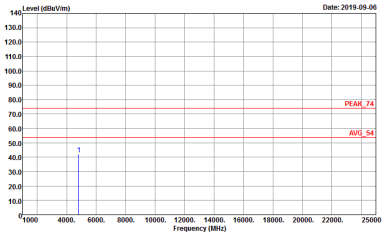
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH09 2452MHz - L	
1	Vertical	Fundamental
Peak	 Site : 03CH16-HY Condition : PEAK_BE_74 3m 91200_1522 VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Setting : 981324-01 Setting : 11.5	 Site : 03CH16-HY Condition : PEAK_74 3m 91200_1522 VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Setting : 981324-01 Setting : 11.5
Avg.	 Site : 03CH16-HY Condition : AVG_BE_54 3m 91200_1522 VERTICAL Detector : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Project : Peak Setting : 981324-01 Setting : 11.5	 Site : 03CH16-HY Condition : AVG_54 3m 91200_1522 VERTICAL Detector : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Project : Peak Setting : 981324-01 Setting : 11.5

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH09 2452MHz - R	
1	Vertical	Fundamental
Peak	 Site : 03CH16-HY Condition : PEAK_BE_74 3m 91200_1522 VERTICAL Detector : Peak Project : 981324-01 Setting : 11.5	Left blank
Avg.	 Site : 03CH16-HY Condition : AVG_BE_54 3m 91200_1522 VERTICAL Detector : Peak Project : 981324-01 Setting : 11.5	Left blank

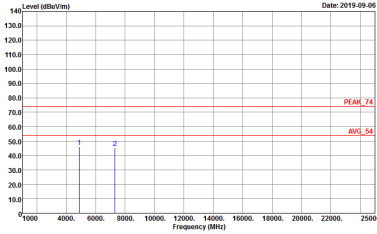
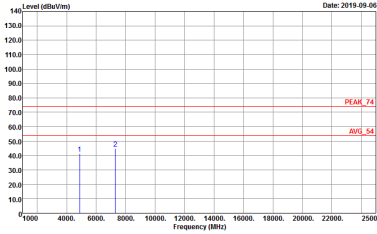


2.4GHz 2400~2483.5MHz

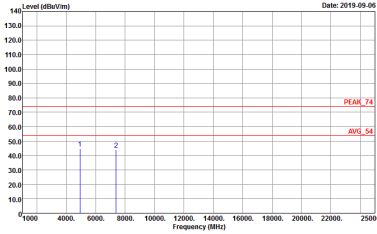
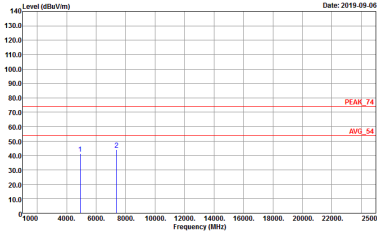
WIFI 802.11b (Harmonic @ 3m)

WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11b CH01 2412MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH16-1FY Condition : PEAK_74 3m 91200_1522 HORIZONTAL Detector : Peak Project : 981324-01	 Site : 03CH16-1FY Condition : PEAK_74 3m 91200_1522 VERTICAL Detector : Peak Project : 981324-01



WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11b CH06 2437MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH16-HV Condition : PEAK_74 3m 91200_1522 HORIZONTAL Detector : Peak Project : 981324-01	 Site : 03CH16-HV Condition : PEAK_74 3m 91200_1522 VERTICAL Detector : Peak Project : 981324-01

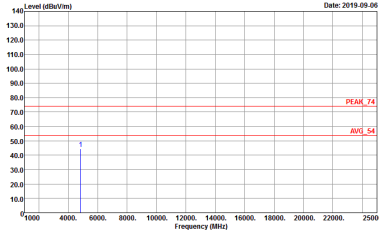
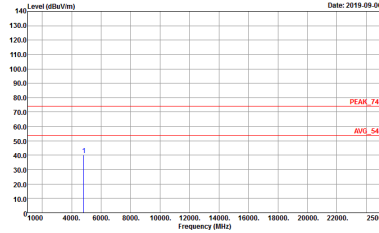


WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11b CH11 2462MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH16-HV Condition : PEAK_74 3m 91200_1522 HORIZONTAL Detector : Peak Project : 981324-01	 Site : 03CH16-HV Condition : PEAK_74 3m 91200_1522 VERTICAL Detector : Peak Project : 981324-01

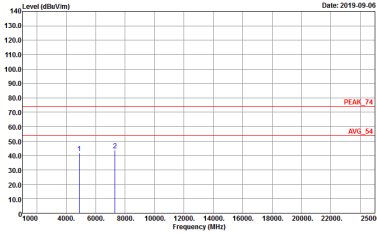
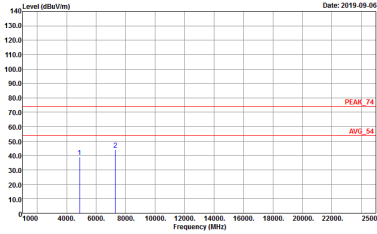


2.4GHz 2400~2483.5MHz

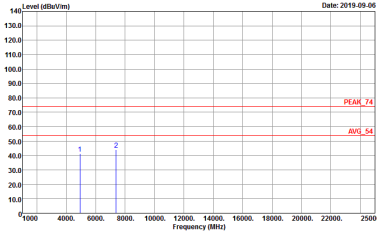
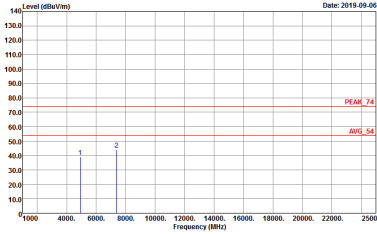
WIFI 802.11g (Harmonic @ 3m)

WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11g CH01 2412MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH16-1FY Condition : PEAK_74 3m 91200_1522 HORIZONTAL Detector : Peak Project : 981324-01	 Site : 03CH16-1FY Condition : PEAK_74 3m 91200_1522 VERTICAL Detector : Peak Project : 981324-01



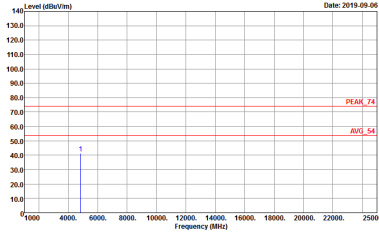
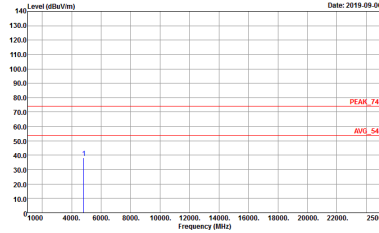
WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11g CH06 2437MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH16-HY Condition : PEAK_74 3m 91200_1522 HORIZONTAL Detector : Peak Project : 981324-01	 Site : 03CH16-HY Condition : PEAK_74 3m 91200_1522 VERTICAL Detector : Peak Project : 981324-01



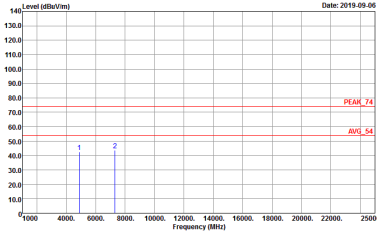
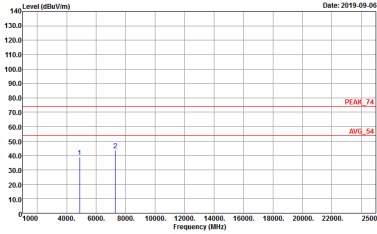
WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11g CH11 2462MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH16-HY Condition : PEAK_74 3m 91200_1522 HORIZONTAL Detector : Peak Project : 981324-01 Setting : 14.5	 Site : 03CH16-HY Condition : PEAK_74 3m 91200_1522 VERTICAL Detector : Peak Project : 981324-01 Setting : 14.5



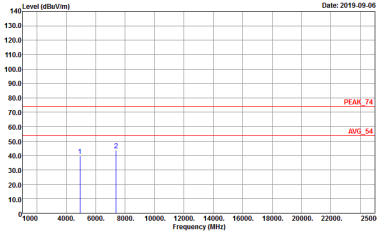
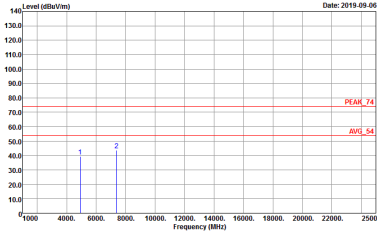
2.4GHz 2400~2483.5MHz
WIFI 802.11n HT20 (Harmonic @ 3m)

WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11n HT20 CH01 2412MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH16-HY Condition : PEAK_74 3m 91200_1522 HORIZONTAL Detector : Peak Project : 981324-01	 Site : 03CH16-HY Condition : PEAK_74 3m 91200_1522 VERTICAL Detector : Peak Project : 981324-01

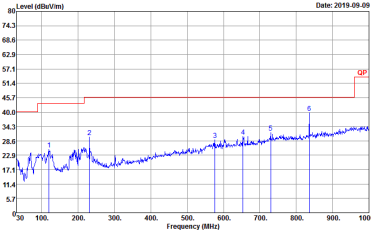
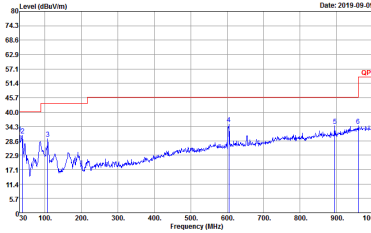


WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11n HT20 CH06 2437MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH16-HY Condition : PEAK_74 3m 91200_1522 HORIZONTAL Detector : Peak Project : 981324-01	 Site : 03CH16-HY Condition : PEAK_74 3m 91200_1522 VERTICAL Detector : Peak Project : 981324-01



WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11n HT20 CH11 2462MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH16-HY Condition : PEAK_74 3m 91200_1522 HORIZONTAL Detector : Peak Project : 981324-01 Setting : 14	 Site : 03CH16-HY Condition : PEAK_74 3m 91200_1522 VERTICAL Detector : Peak Project : 981324-01 Setting : 14

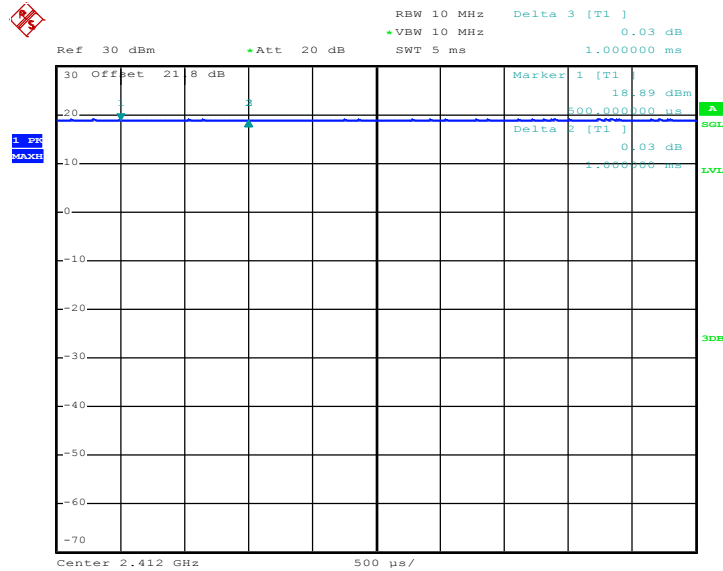
Emission below 1GHz
2.4GHz WIFI 802.11g (LF)

WIFI	2.4GHz 2400~2483.5MHz	
ANT	802.11g LF	
1	Horizontal	Vertical
QP / Peak	 Site : 03CH16-HY Condition : QP 3m BTL06_47020406 HORIZONTAL Detector : Peak Project : 981324-01	 Site : 03CH16-HY Condition : QP 3m BTL06_47020406 VERTICAL Detector : Peak Project : 981324-01

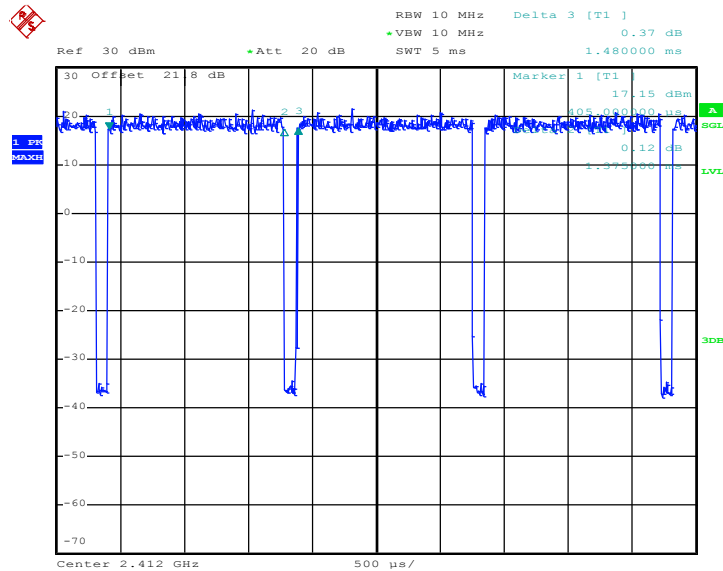


Appendix E. Duty Cycle Plots

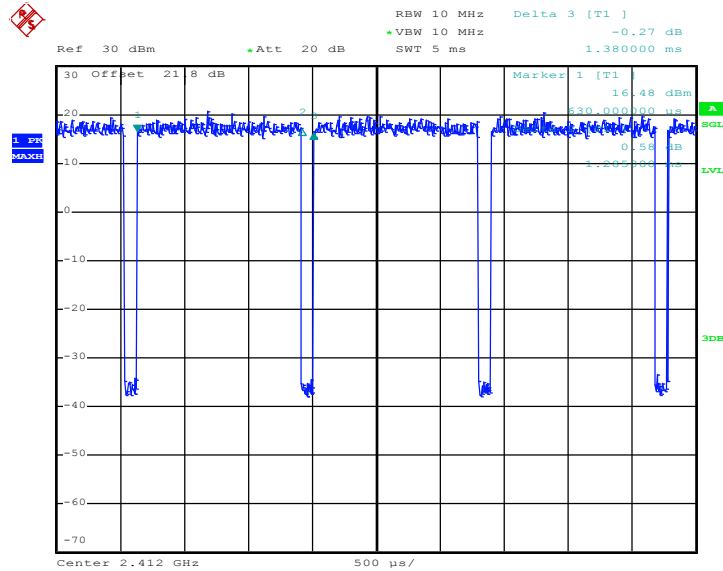
Band	Duty Cycle(%)	T(us)	1/T(kHz)	VBW Setting	Duty Factor(dB)
802.11b	100.00	-	-	10Hz	0.00
802.11g	92.91	1375	0.73	1kHz	0.32
2.4GHz 802.11n HT20	93.12	1285	0.78	1kHz	0.31
2.4GHz 802.11n HT40	86.36	633	1.58	3kHz	0.64

802.11b


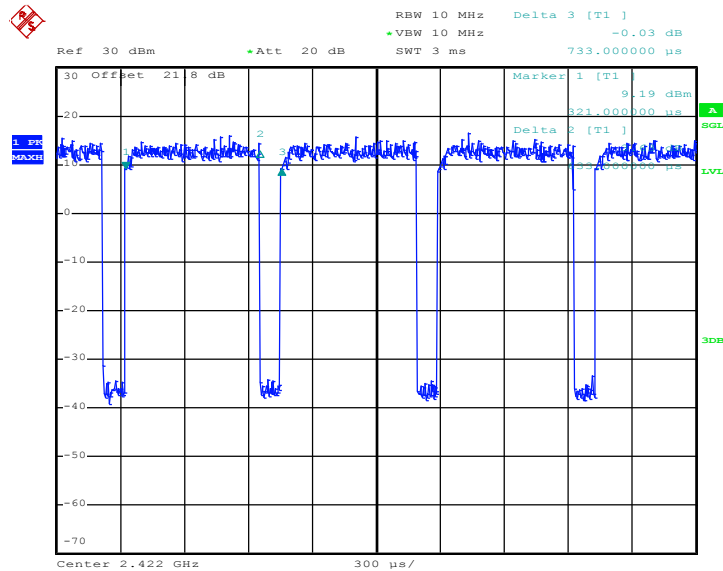
Date: 24.AUG.2019 00:36:44

802.11g


Date: 24.AUG.2019 00:49:31

802.11n HT20


Date: 24.AUG.2019 00:56:57

802.11n HT40


Date: 24.AUG.2019 01:03:06