

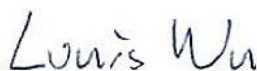


FCC RADIO TEST REPORT

FCC ID : 2AVRLS10W0
Equipment : Tablet
Brand Name : BYJU'S
Model Name : LRNS10GNW0
Applicant : Tangible Play Inc.
195 Page Mill Rd, Ste 105, Palo Alto,
CA 94306 United States
Manufacturer : Tangible Play Inc.
195 Page Mill Rd, Ste 105, Palo Alto,
CA 94306 United States
Standard : FCC Part 15 Subpart C §15.247

The product was received on Oct. 30, 2020 and testing was started from Oct. 30, 2020 and completed on Nov. 27, 2020. We, Sporton International Inc. EMC & Wireless Communications Laboratory, would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

The 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 333, 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.....	5
2 Test Configuration of Equipment Under Test	6
2.1 Carrier Frequency and Channel	6
2.2 Test Mode.....	7
2.3 Connection Diagram of Test System.....	8
2.4 Support Unit used in test configuration and system	8
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.....	37
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
FR003042C	01	Initial issue of report	May 18, 2021

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 0.57 dB at 4874.000 MHz
3.6	15.207	AC Conducted Emission	Pass	Under limit 8.88 dB at 0.517 MHz
3.7	15.203 & 15.247(b)	Antenna Requirement	Pass	-

Declaration of Conformity:

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

Comments and Explanations:

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

Reviewed by: Wii Chang

Report Producer: Ruby Zou



1 General Description

1.1 Product Feature of Equipment Under Test

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

Product Specification subjective to this standard	
Antenna Type	WLAN: PCB Antenna Bluetooth: PCB Antenna GPS: PCB Antenna
Antenna Gain	3.27 dBi

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

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 333, Taiwan (R.O.C.) TEL: +886-3-327-3456 FAX: +886-3-328-4978		
Test Site No.	Sporton Site No.		
	TH02-HY	CO05-HY	03CH07-HY

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

FCC designation No.: TW1190

1.4 Applicable Standards

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

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

Remark:

1. All test items were verified and recorded according to the standards and without any deviation during the test.
2. The TAF code is not including all the FCC KDB listed without accreditation.
3. 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 (Y plane) were recorded in this report.
- b. AC power line Conducted Emission was tested under maximum output power.

2.1 Carrier Frequency and Channel

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

2.2 Test Mode

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

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

Test Cases	
AC Conducted Emission	Mode 1 : Bluetooth Link + WLAN (2.4GHz) Link + Camera (Top) + Earphone + Adapter + SD Card

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

Remark: For radiation spurious emission, the final modulation and the worst data rate was reference the max RF conducted power.

2.3 Connection Diagram of Test System



2.4 Support Unit used in test configuration and system

Item	Equipment	Brand Name	Model Name	FCC ID	Data Cable	Power Cord
1.	Bluetooth Earphone	Sony Ericsson	MW600	PY7DDA-2029	N/A	N/A
2.	WLAN AP	ASUS	RT-AC66U	MSQ-RTAC66U	N/A	Unshielded, 1.8 m
3.	iPod Earphone	Apple	N/A	Verification	Unshielded, 1.0 m	N/A
4.	SD Card	SanDisk	MicroSD HC	FCC DoC	N/A	N/A
5.	Notebook	Dell	Latitude 3400	FCC DoC	N/A	AC I/P : Unshielded, 1.2m DC O/P : Shielded, 1.8m



2.5 EUT Operation Test Setup

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

2.6 Measurement Results Explanation Example

For all conducted test items:

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

Example:

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

Offset = RF cable loss + attenuator factor.

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

Offset(dB) = RF cable loss(dB) + attenuator factor(dB).

= 4.2 + 10 = 14.2 (dB)

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.

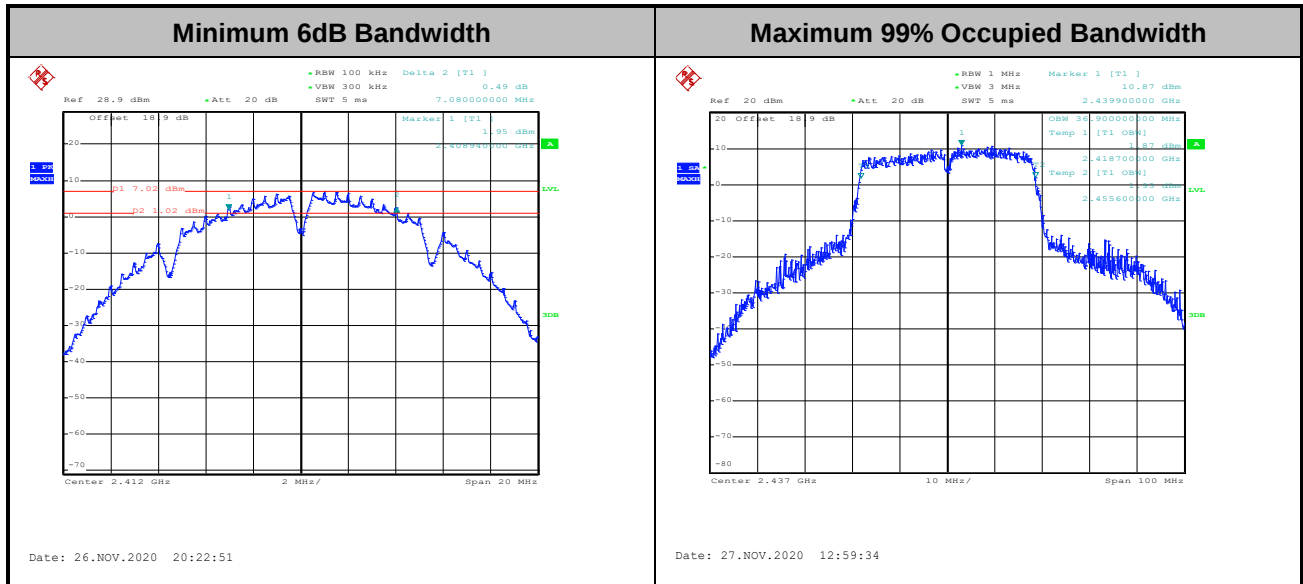
3.1.4 Test Setup





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 output power is 30dBm. If transmitting antenna with directional gain greater than 6dBi is used, the 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.

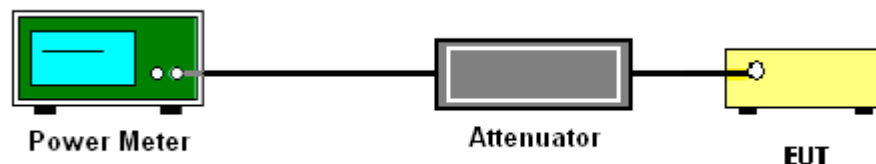
3.2.2 Measuring Instruments

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

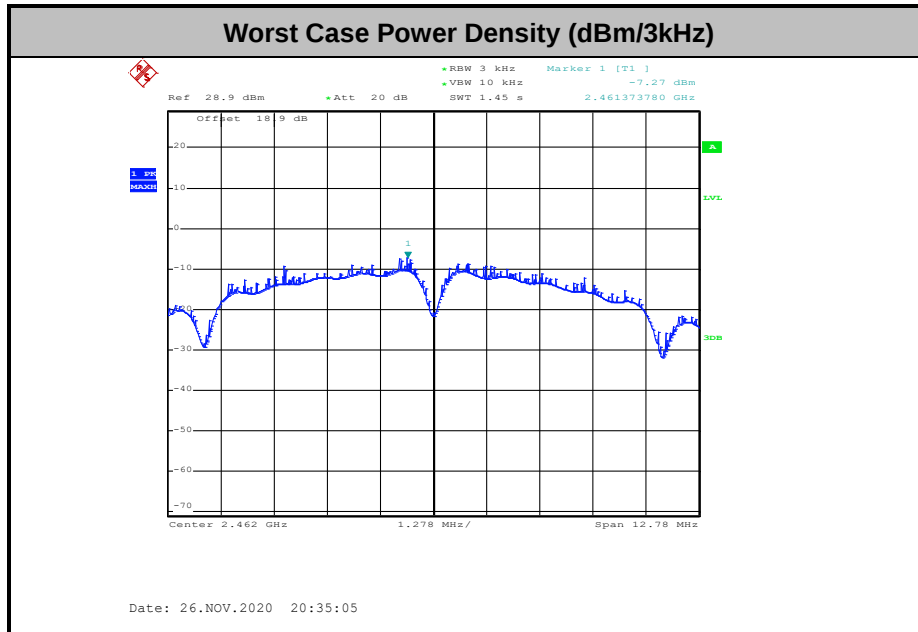
1. The testing follows the ANSI C63.10 Section 11.10.2 Method PKPSD.
2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the EUT transmit continuously.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

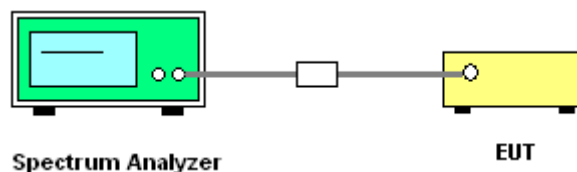
3.4.2 Measuring Instruments

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



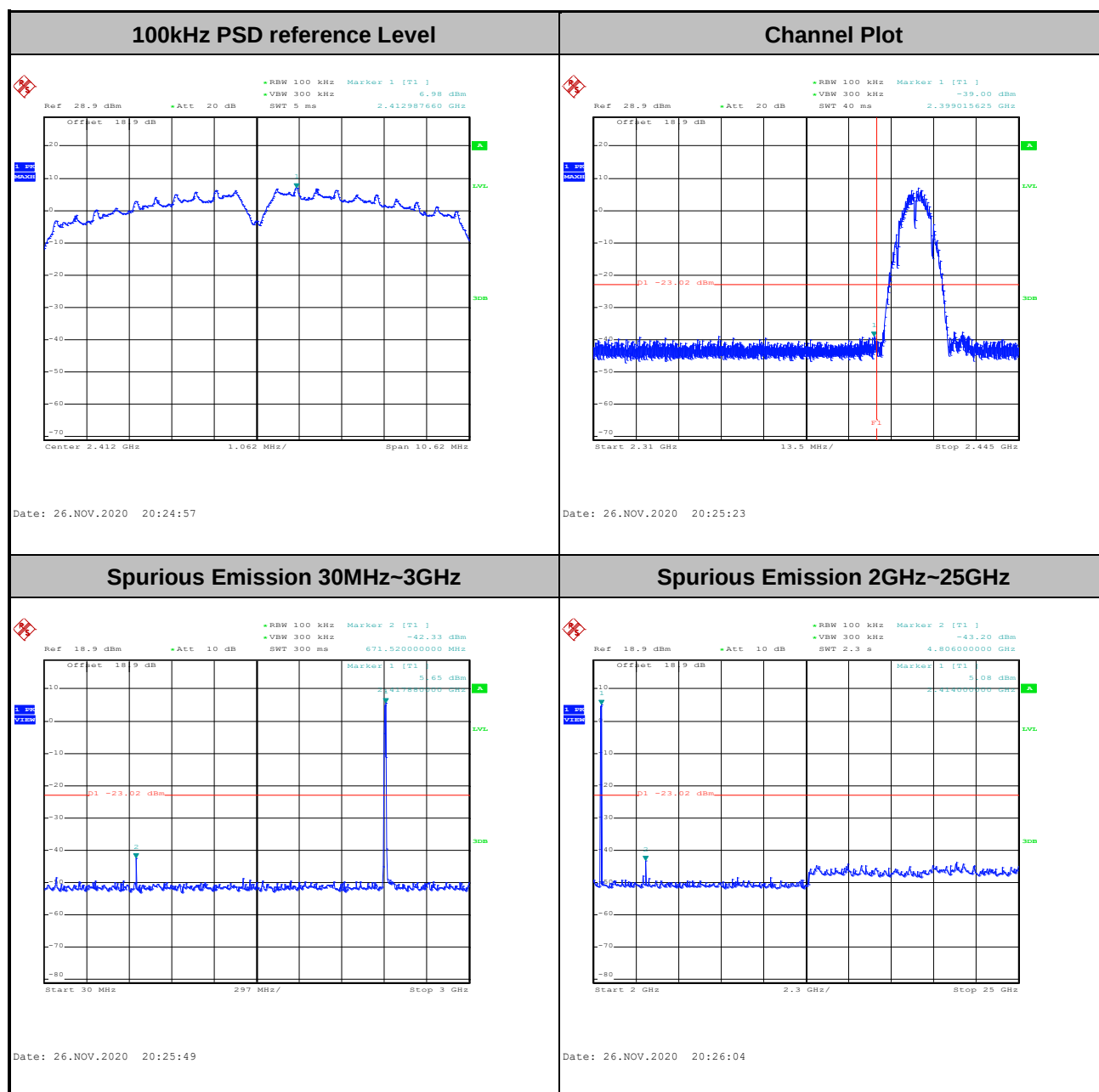


3.4.5 Test Result of Conducted Band Edges and Spurious Emission

Test Engineer :	Jacob Yu, Shiming Liu	Temperature :	23.1~23.9°C
		Relative Humidity :	53.6~54.5%

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

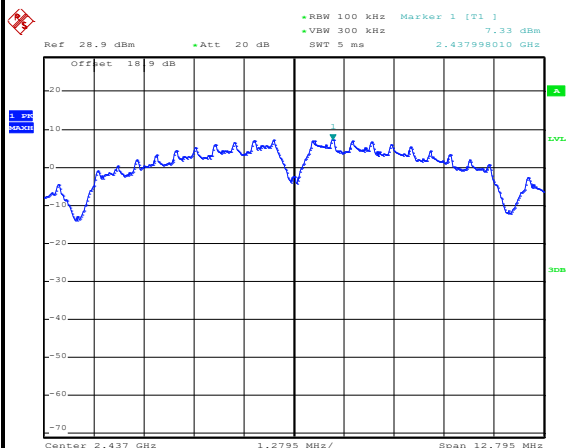
Test Mode :	802.11b	Test Channel :	01
-------------	---------	----------------	----





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

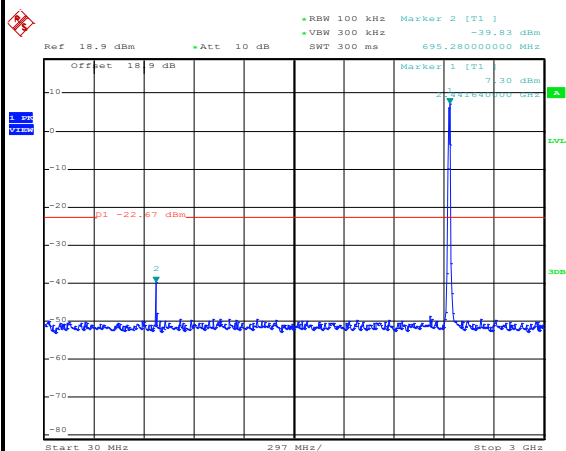
100kHz PSD reference Level



Date: 26.NOV.2020 20:31:08

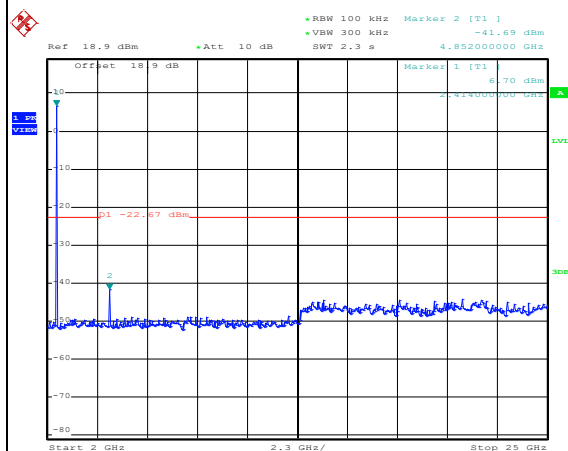
Channel Plot

Spurious Emission 30MHz~3GHz



Date: 26.NOV.2020 20:31:51

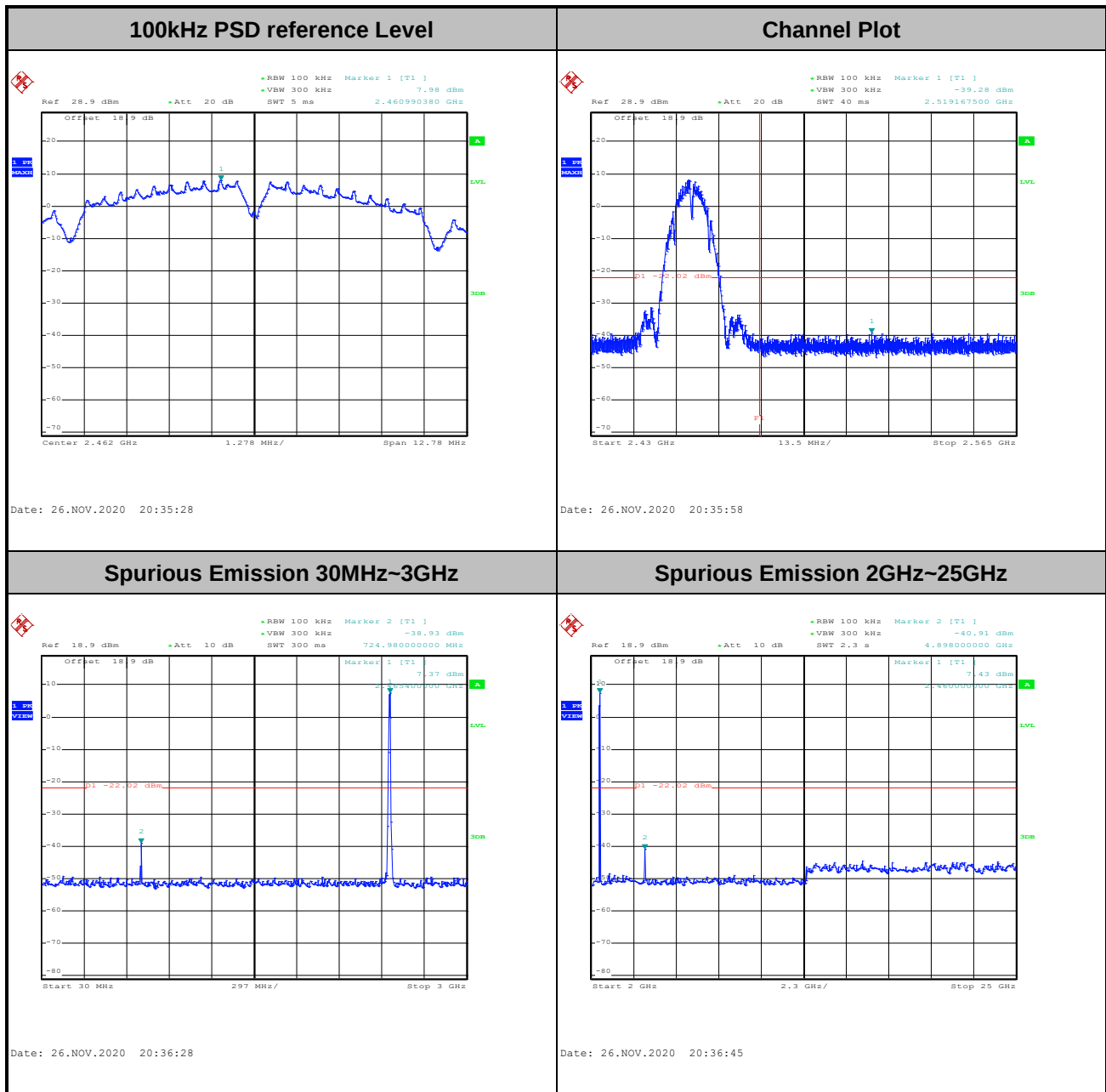
Spurious Emission 2GHz~25GHz



Date: 26.NOV.2020 20:32:06

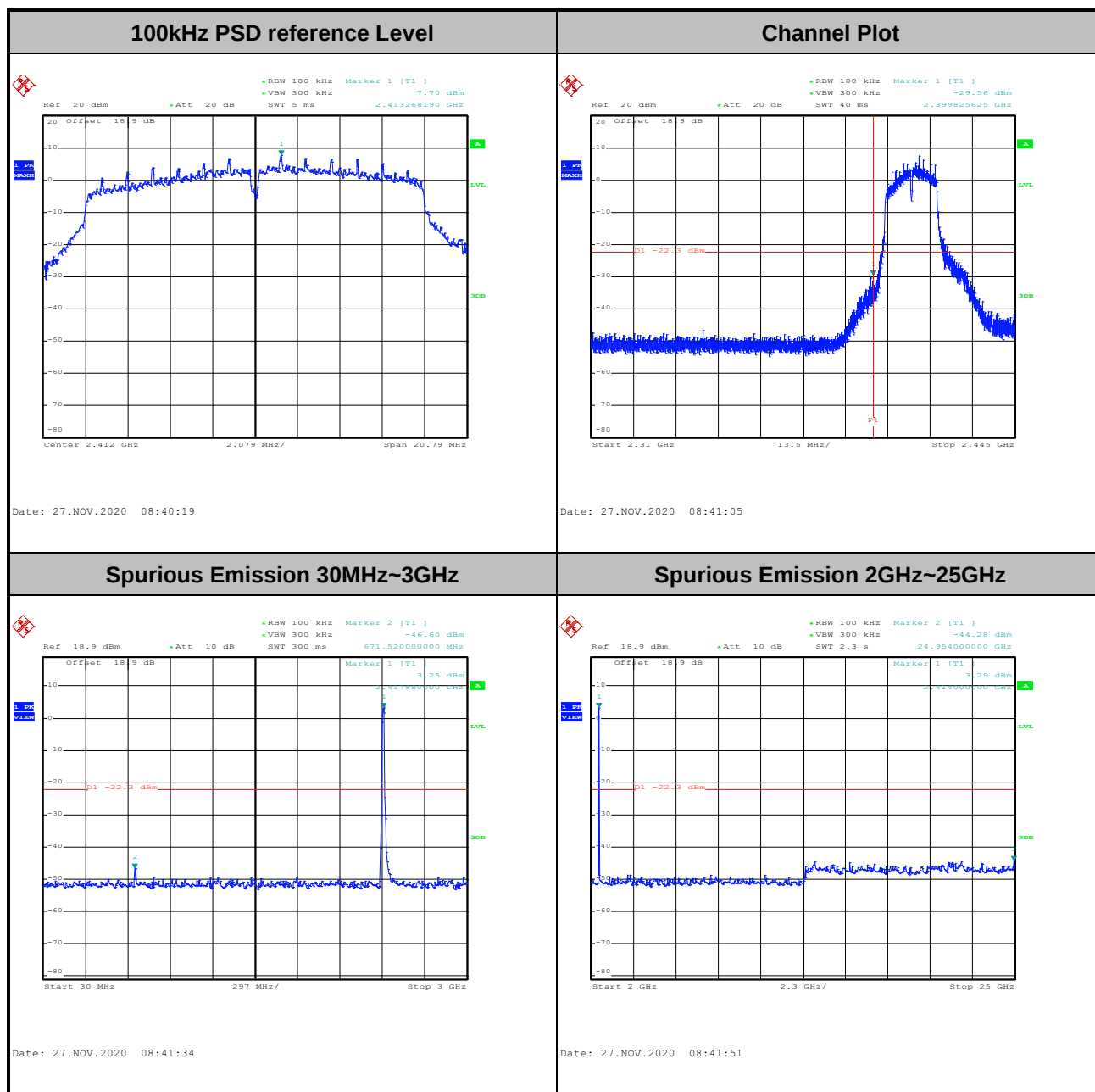


Test Mode :	802.11b	Test Channel :	11
-------------	---------	----------------	----





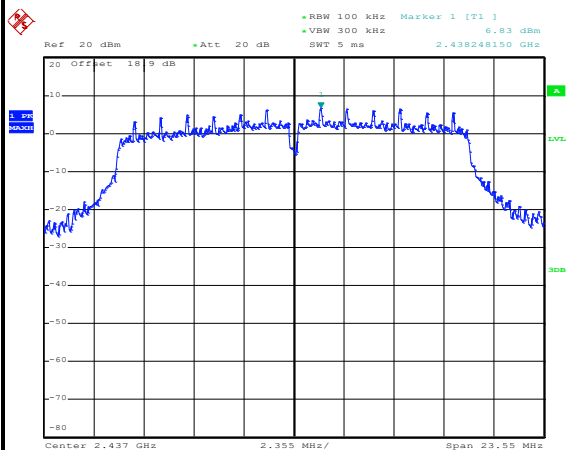
Test Mode :	802.11g	Test Channel :	01
-------------	---------	----------------	----





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

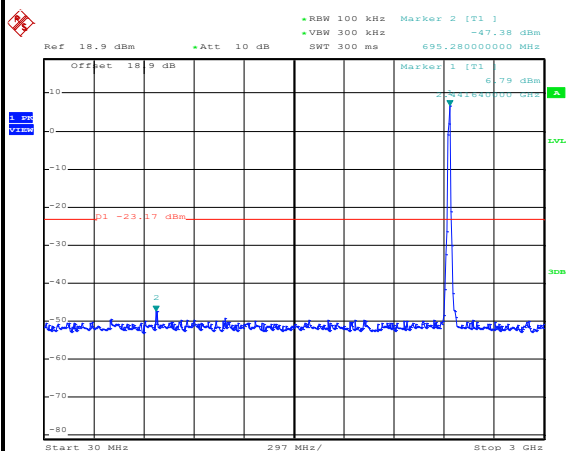
100kHz PSD reference Level



Date: 27.NOV.2020 09:08:38

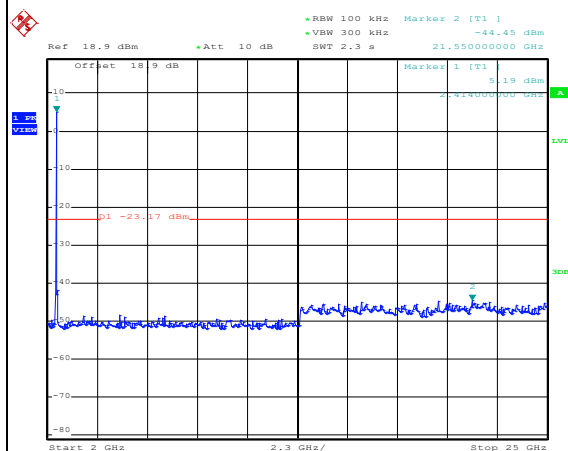
Channel Plot

Spurious Emission 30MHz~3GHz



Date: 27.NOV.2020 09:09:30

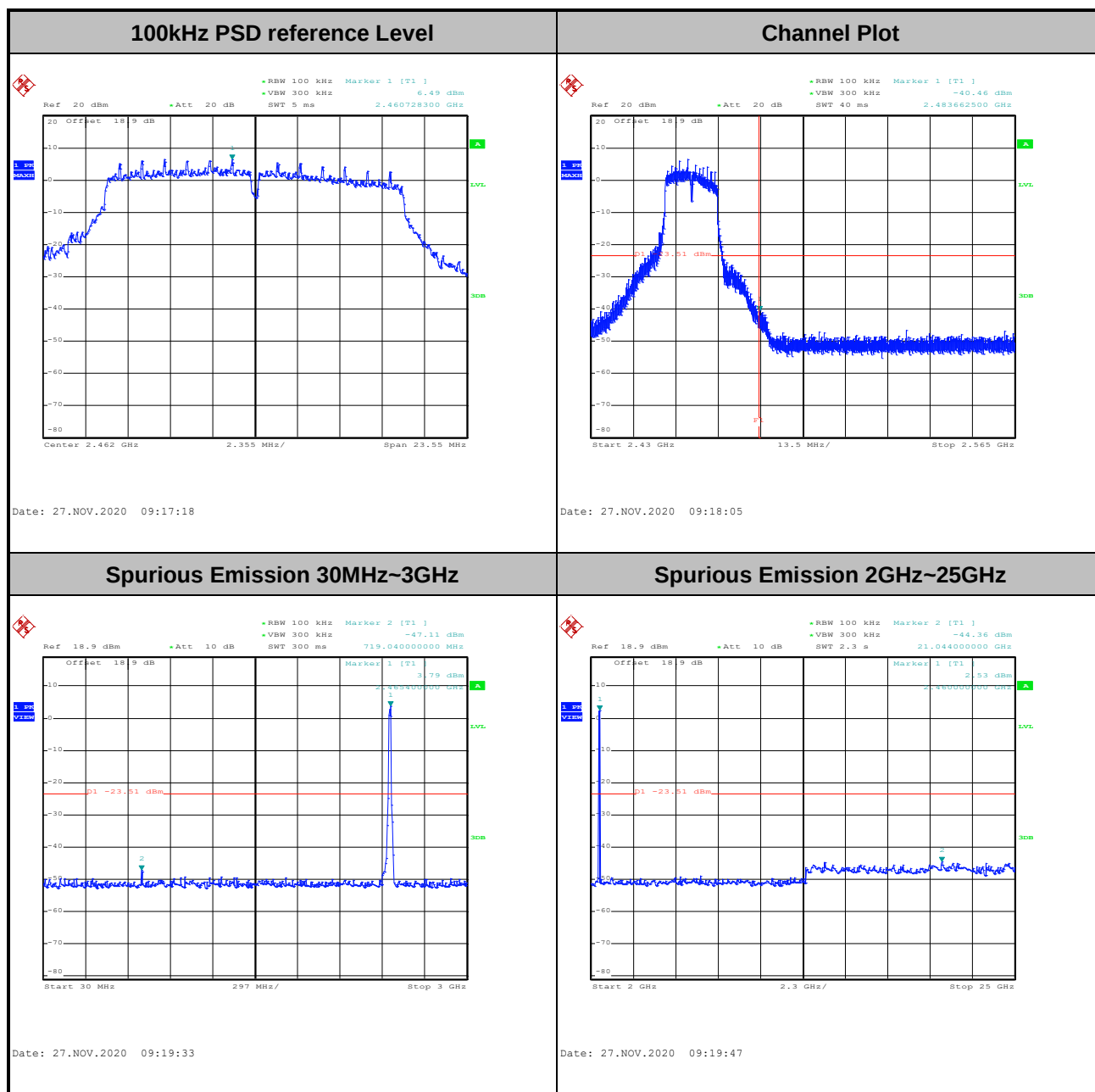
Spurious Emission 2GHz~25GHz



Date: 27.NOV.2020 09:09:45

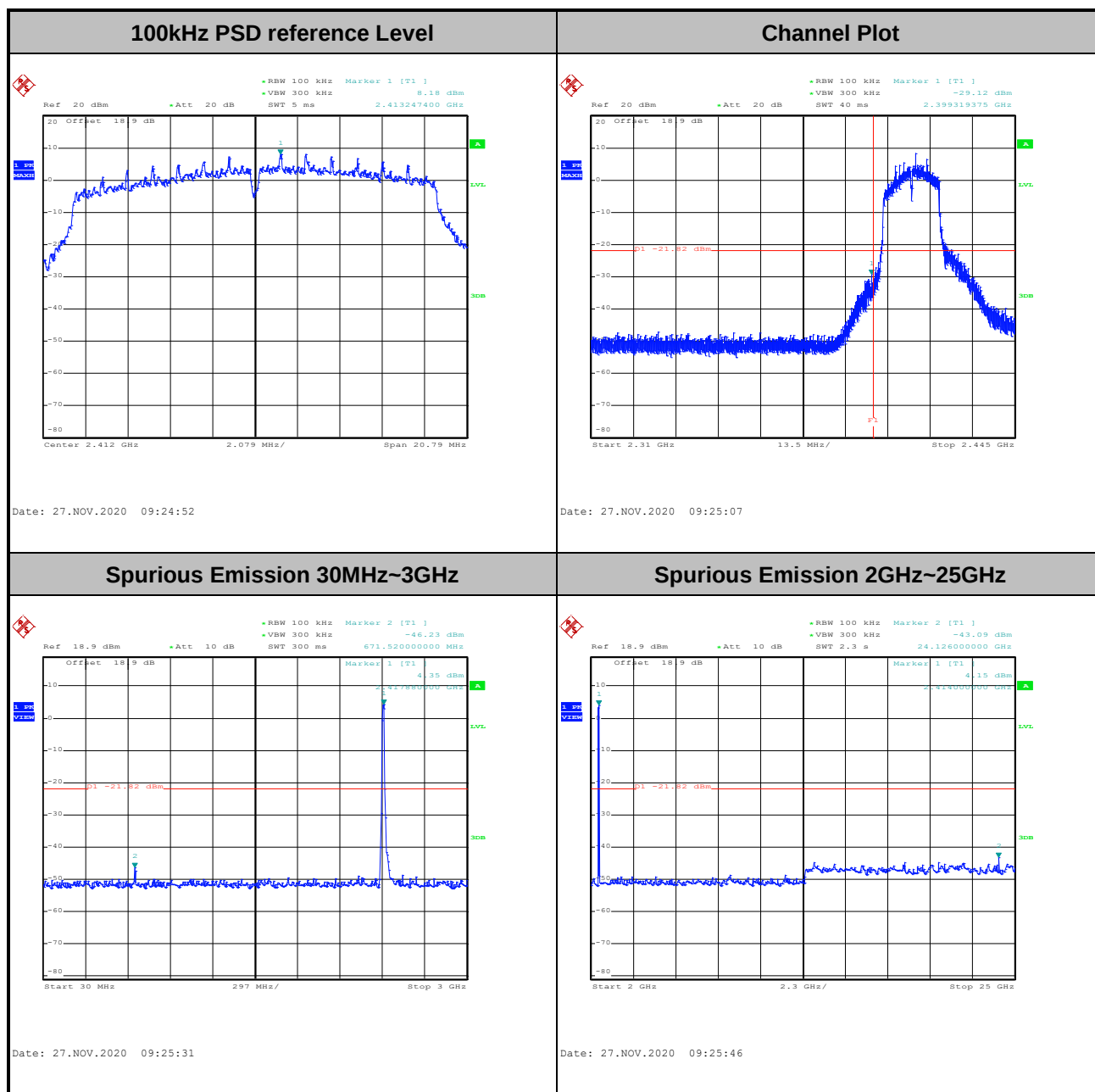


Test Mode :	802.11g	Test Channel :	11
-------------	---------	----------------	----





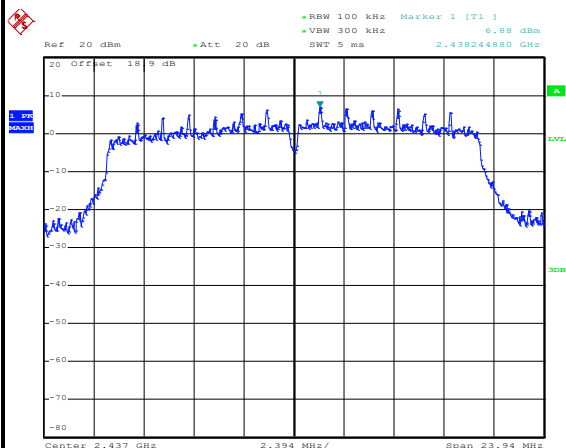
Test Mode :	802.11n HT20	Test Channel :	01
-------------	--------------	----------------	----





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

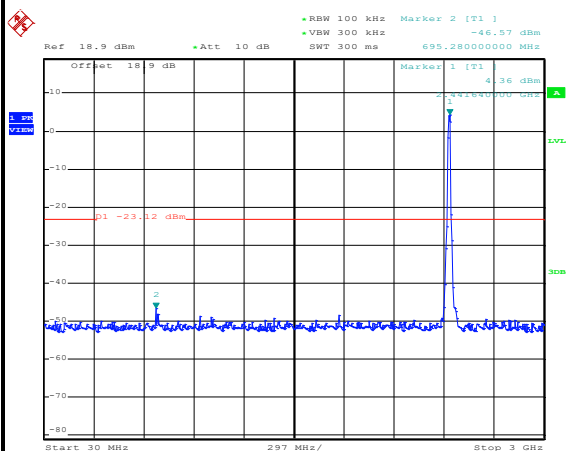
100kHz PSD reference Level



Date: 27.NOV.2020 09:32:22

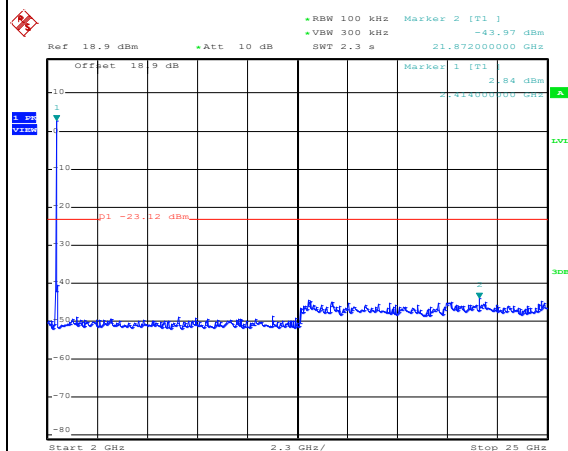
Channel Plot

Spurious Emission 30MHz~3GHz



Date: 27.NOV.2020 09:33:56

Spurious Emission 2GHz~25GHz

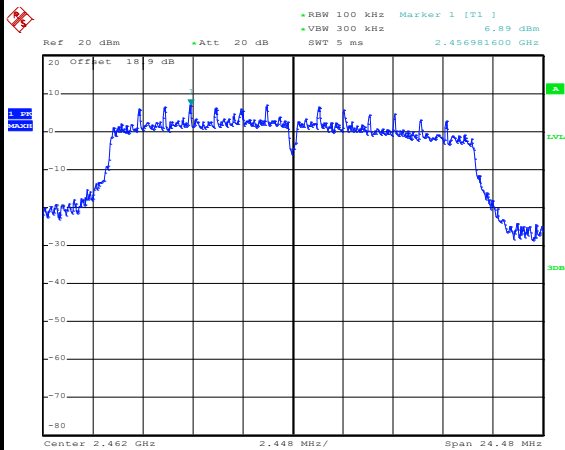


Date: 27.NOV.2020 09:34:11



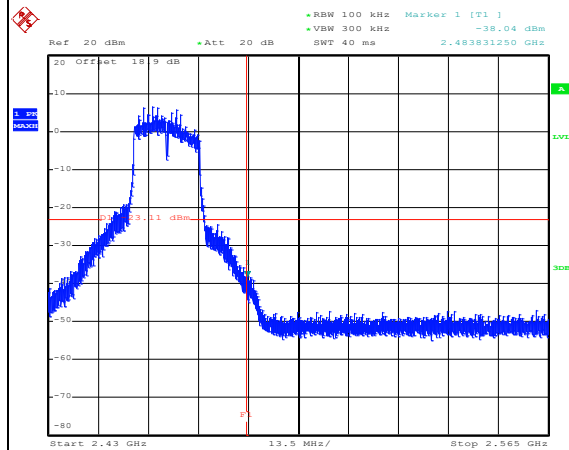
Test Mode :	802.11n HT20	Test Channel :	11
-------------	--------------	----------------	----

100kHz PSD reference Level



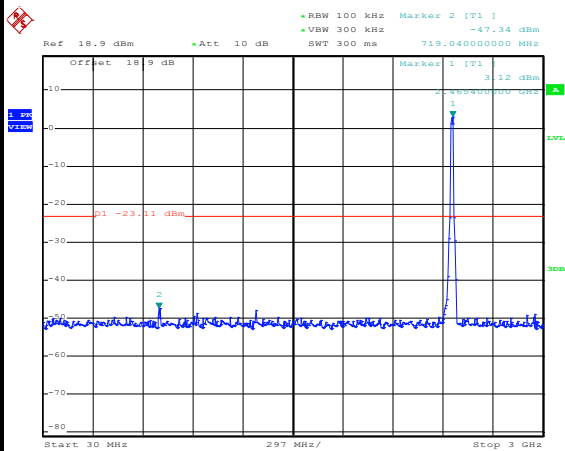
Date: 27.NOV.2020 10:25:22

Channel Plot



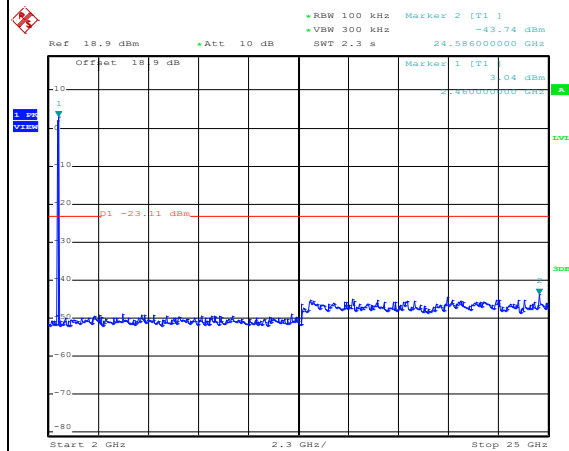
Date: 27.NOV.2020 10:25:51

Spurious Emission 30MHz~3GHz



Date: 27.NOV.2020 10:26:26

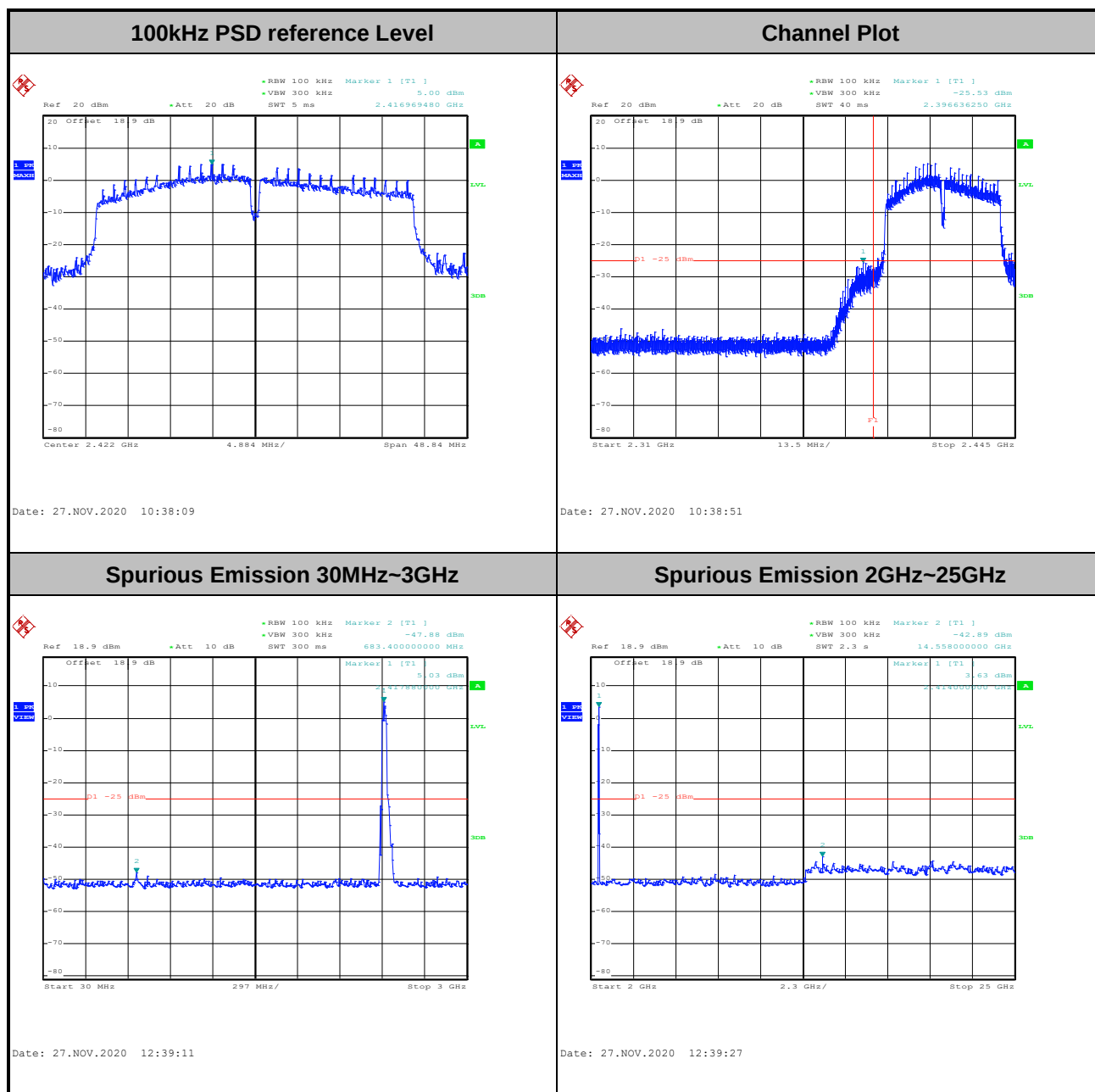
Spurious Emission 2GHz~25GHz



Date: 27.NOV.2020 10:26:43



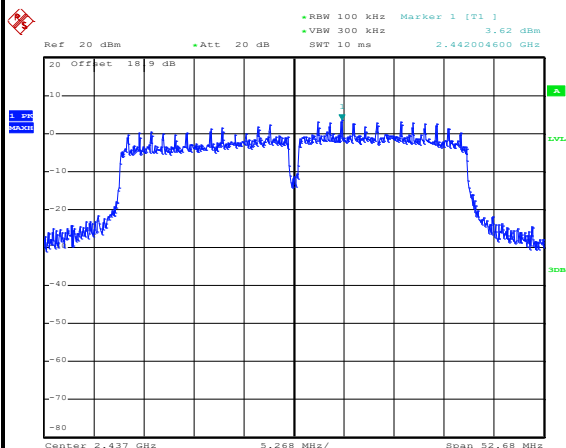
Test Mode :	802.11n HT40	Test Channel :	03
-------------	--------------	----------------	----





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

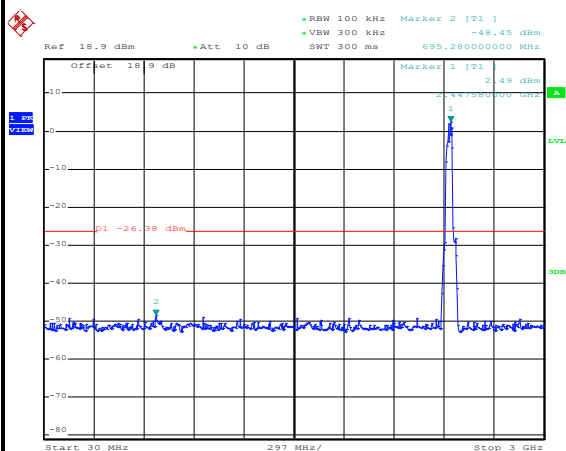
100kHz PSD reference Level



Date: 27.NOV.2020 12:53:18

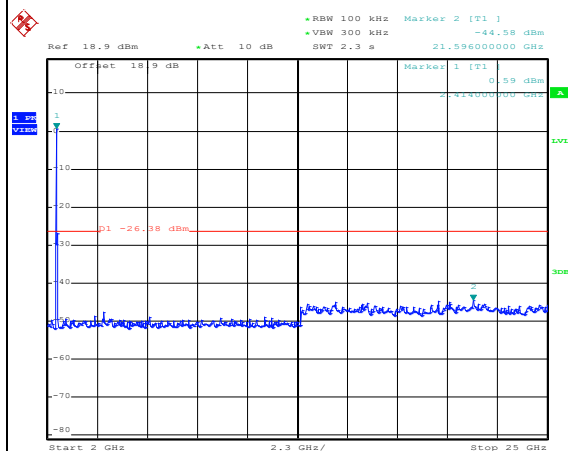
Channel Plot

Spurious Emission 30MHz~3GHz



Date: 27.NOV.2020 12:53:51

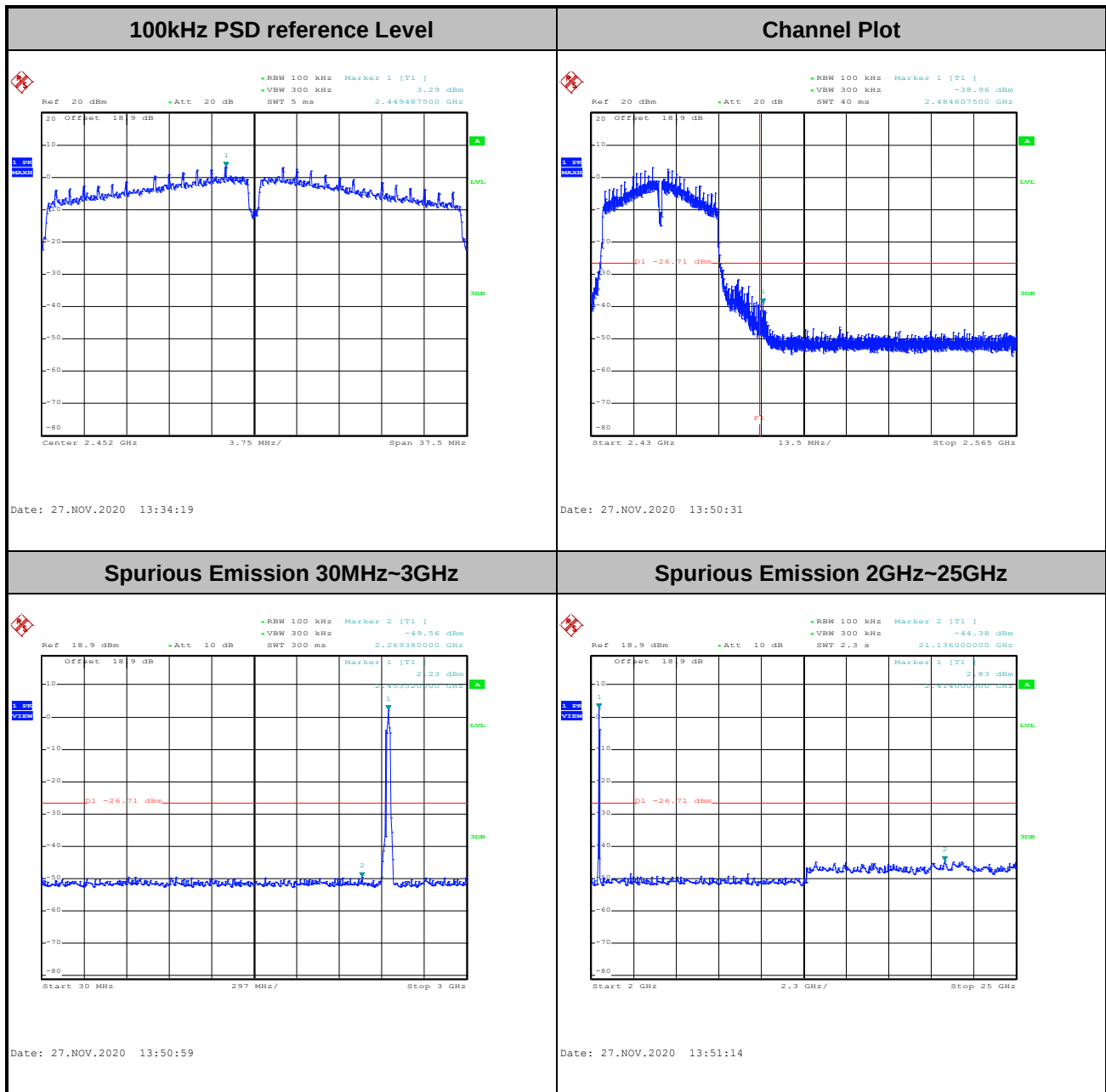
Spurious Emission 2GHz~25GHz



Date: 27.NOV.2020 12:54:10



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



3.5 Radiated Band Edges and Spurious Emission Measurement

3.5.1 Limit of Radiated band edge and Spurious Emission Measurement

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

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

3.5.2 Measuring Instruments

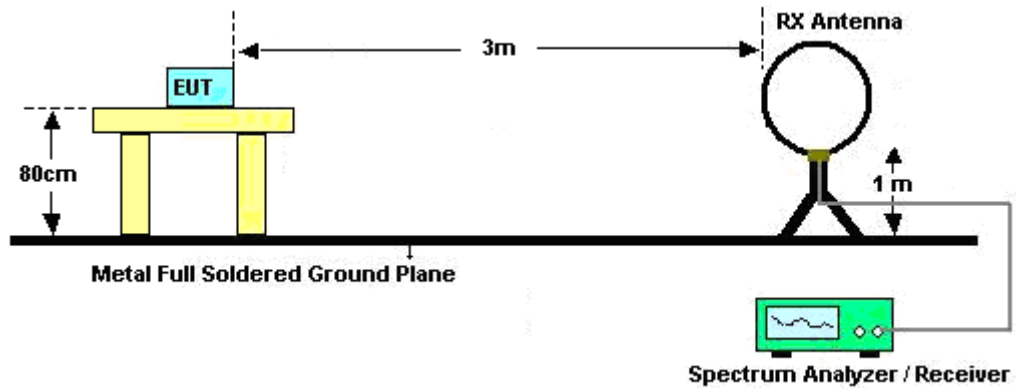
See list of measuring equipment of this test report.

3.5.3 Test Procedures

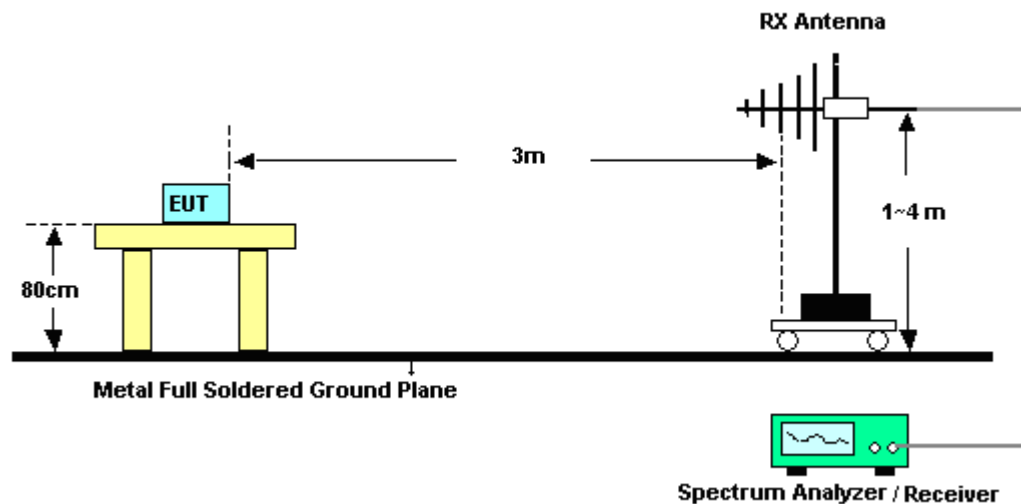
1. The testing follows the ANSI C63.10 Section 11.12.1 Radiated emission measurements
2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the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

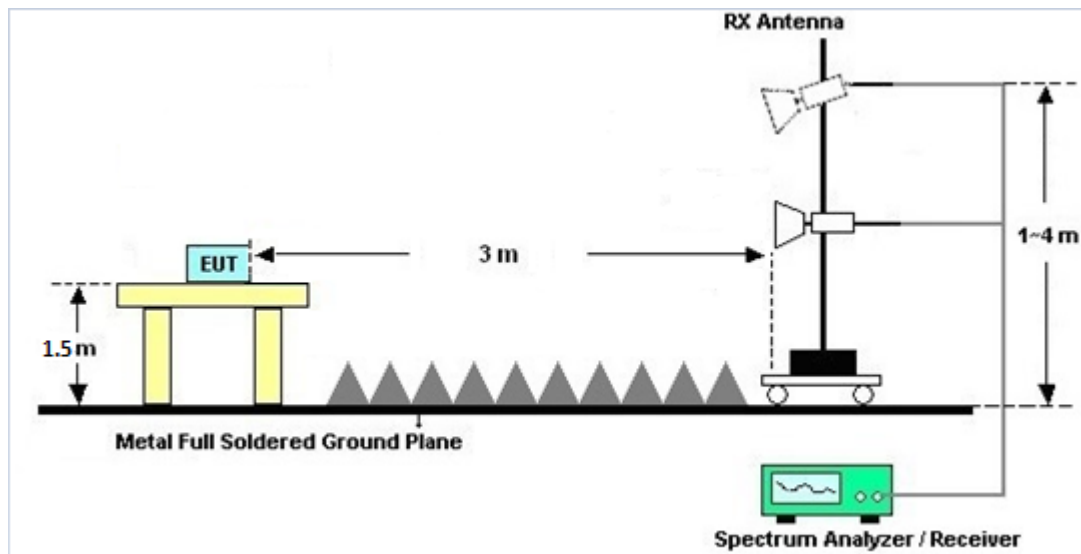
For radiated emissions below 30MHz



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.

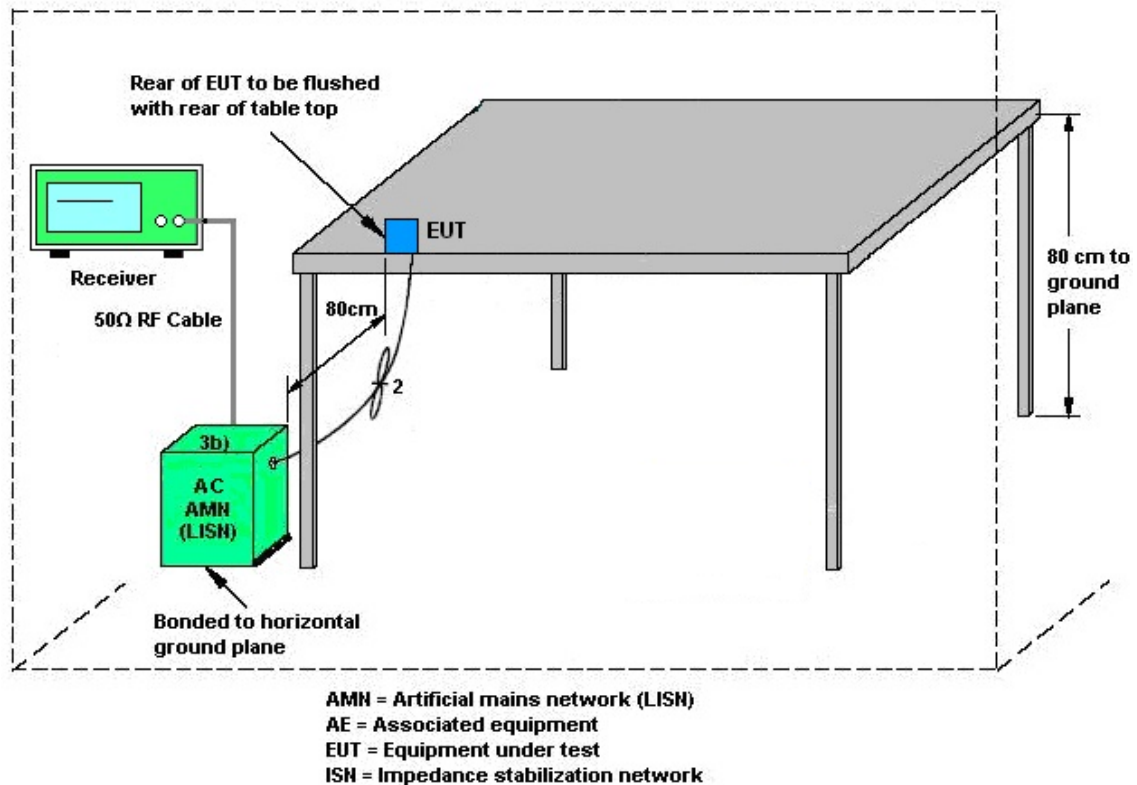
3.6.2 Measuring Instruments

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	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100315	9 kHz~30 MHz	Dec. 26, 2019	Oct. 30, 2020~ Nov. 14, 2020	Dec. 25, 2020	Radiation (03CH07-HY)
Bilog Antenna	TESEQ	CBL 6111D & 00800N1D0 1N-06	35419 & 03	30MHz~1GHz	Apr. 29, 2020	Oct. 30, 2020~ Nov. 14, 2020	Apr. 28, 2021	Radiation (03CH07-HY)
Double Ridge Horn Antenna	ESCO	3117	00075962	1GHz ~ 18GHz	Dec. 06, 2019	Oct. 30, 2020~ Nov. 14, 2020	Dec. 05, 2020	Radiation (03CH07-HY)
SHF-EHF Horn Antenna	SCHWARZBE CK	BBHA 9170	BBHA917058 4	18GHz~40GHz	Dec. 10, 2019	Oct. 30, 2020~ Nov. 14, 2020	Dec. 09, 2020	Radiation (03CH07-HY)
EMI Test Receiver	Agilent	N9038A(MX E)	MY53290053	20Hz~26.5GHz	May 21, 2020	Oct. 30, 2020~ Nov. 14, 2020	May 20, 2021	Radiation (03CH07-HY)
Spectrum Analyzer	Agilent	N9030A	MY52350276	3Hz~44GHz	Jun. 09, 2020	Oct. 30, 2020~ Nov. 14, 2020	Jun. 08, 2021	Radiation (03CH07-HY)
Preamplifier	COM-POWE R	PA-103A	161241	10MHz~1GHz	May 19, 2020	Oct. 30, 2020~ Nov. 14, 2020	May 18, 2021	Radiation (03CH07-HY)
Preamplifier	MITEQ	AMF-7D-001 01800-30-10 P	1590075	1GHz~18GHz	Apr. 23, 2020	Oct. 30, 2020~ Nov. 14, 2020	Apr. 22, 2021	Radiation (03CH07-HY)
Preamplifier	Agilent	8449B	3008A02362	1GHz~26.5GHz	Nov. 01, 2019	Oct. 30, 2020	Oct. 31, 2020	Radiation (03CH07-HY)
Preamplifier	Agilent	8449B	3008A02362	1GHz~26.5GHz	Oct. 31, 2020	Oct. 31, 2020~ Nov. 14, 2020	Oct. 30, 2021	Radiation (03CH07-HY)
Preamplifier	EMEC	EM18G40G	060715	18GHz~40GHz	Dec. 13, 2019	Oct. 30, 2020~ Nov. 14, 2020	Dec. 12, 2020	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	MY2858/2,80 1606/2	18GHz~40GHz	Feb. 25, 2020	Oct. 30, 2020~ Nov. 14, 2020	Feb. 24, 2021	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY24971/4, MY28655/4	9kHz~30MHz	Feb. 25, 2020	Oct. 30, 2020~ Nov. 14, 2020	Feb. 24, 2021	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY28655/4, MY24971/4, MY15682/4	30MHz~1GHz	Feb. 25, 2020	Oct. 30, 2020~ Nov. 14, 2020	Feb. 24, 2021	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY28655/4, MY24971/4, MY15682/4	1GHz~18GHz	Feb. 25, 2020	Oct. 30, 2020~ Nov. 14, 2020	Feb. 24, 2021	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	801606/2	9KHz ~ 40GHz	N/A	Oct. 30, 2020~ Nov. 14, 2020	N/A	Radiation (03CH07-HY)
Antenna Mast	Max-Full	MFA520BS	N/A	1m~4m	N/A	Oct. 30, 2020~ Nov. 14, 2020	N/A	Radiation (03CH07-HY)
Turn Table	ChainTek	Chaintek 3000	N/A	0~360 Degree	N/A	Oct. 30, 2020~ Nov. 14, 2020	N/A	Radiation (03CH07-HY)
USB Data Logger	TECPEL	TR-32	HE17XB2495	N/A	N/A	Oct. 30, 2020~ Nov. 14, 2020	N/A	Radiation (03CH07-HY)
Software	Audix	E3 6.2009-8 -24	N/A	N/A	N/A	Oct. 30, 2020~ Nov. 14, 2020	N/A	Radiation (03CH07-HY)



Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Hygrometer	Testo	608-H1	34893241	N/A	Mar. 02, 2020	Nov. 16, 2020~ Nov. 27, 2020	Mar. 01, 2021	Conducted (TH02-HY)
Power Sensor	DARE	RPR3006W	16I00054SN O10	10MHz~6GHz	Dec. 23, 2019	Nov. 16, 2020~ Nov. 27, 2020	Dec. 22, 2020	Conducted (TH02-HY)
Spectrum Analyzer	Rohde & Schwarz	FSP40	100055	9kHz-40GHz	Dec. 30, 2019	Nov. 16, 2020~ Nov. 27, 2020	Dec. 29, 2020	Conducted (TH02-HY)
Switch Box & RF Cable	EM Electronics	EMSW18SE	SW200302	N/A	Mar. 17, 2020	Nov. 16, 2020~ Nov. 27, 2020	Mar. 16, 2021	Conducted (TH02-HY)
AC Power Source	ChainTek	APC-1000W	N/A	N/A	N/A	Nov. 13, 2020	N/A	Conduction (CO05-HY)
EMI Test Receiver	Rohde & Schwarz	ESR3	102317	9kHz~3.6GHz	Sep. 11, 2020	Nov. 13, 2020	Sep. 10, 2021	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100080	9kHz~30MHz	Nov. 20, 2019	Nov. 13, 2020	Nov. 19, 2020	Conduction (CO05-HY)
Software	Rohde & Schwarz	EMC32 V10.30	N/A	N/A	N/A	Nov. 13, 2020	N/A	Conduction (CO05-HY)
LF Cable	HUBER + SUHNER	RG-214/U	LF01	N/A	Jan. 02, 2020	Nov. 13, 2020	Jan. 01, 2021	Conduction (CO05-HY)
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100851	N/A	Jan. 02, 2020	Nov. 13, 2020	Jan. 01, 2021	Conduction (CO05-HY)
Hygrometer	Testo	608-H1	34893241	N/A	Mar. 02, 2020	Nov. 13, 2020	Mar. 01, 2021	Conduction (CO05-HY)

5 Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	2.3
---	-----

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

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

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

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

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.0
---	-----

Appendix A. Test Result of Conducted Test Items

Test Engineer:	Jacob Yu/Shiming Liu	Temperature:	23.1~23.9	°C
Test Date:	2020/11/16-2020/11/27	Relative Humidity:	53.6~54.5	%

TEST RESULTS DATA
6dB and 99% Occupied Bandwidth

2.4GHz Band Single Antenna										
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Occupied BW (MHz)		6dB BW (MHz)		6dB BW Limit (MHz)	Pass/Fail
					Ant1	Ant2	Ant1	Ant2		
11b	1Mbps	1	1	2412	12.55	-	7.08	-	0.50	Pass
11b	1Mbps	1	6	2437	13.35	-	8.53	-	0.50	Pass
11b	1Mbps	1	11	2462	13.40	-	8.52	-	0.50	Pass
11g	6Mbps	1	1	2412	16.50	-	13.86	-	0.50	Pass
11g	6Mbps	1	6	2437	17.00	-	15.70	-	0.50	Pass
11g	6Mbps	1	11	2462	16.90	-	15.70	-	0.50	Pass
HT20	MCS0	1	1	2412	17.65	-	13.86	-	0.50	Pass
HT20	MCS0	1	6	2437	17.90	-	15.96	-	0.50	Pass
HT20	MCS0	1	11	2462	17.95	-	16.32	-	0.50	Pass
HT40	MCS0	1	3	2422	36.20	-	32.56	-	0.50	Pass
HT40	MCS0	1	6	2437	36.90	-	35.12	-	0.50	Pass
HT40	MCS0	1	9	2452	35.70	-	25.00	-	0.50	Pass

TEST RESULTS DATA
Average Output Power

2.4GHz Band Single Antenna																
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Conducted Power (dBm)			Conducted Power Limit (dBm)		DG (dBi)		EIRP Power (dBm)		EIRP Power Limit (dBm)		Pass /Fail
					Ant1	Ant2	SUM	Ant1	Ant2	Ant1	Ant2	Ant1	Ant2	Ant1	Ant2	
11b	1Mbps	1	1	2412	16.80	-		30.00	-	3.27	-	20.07	-	36.00	-	Pass
11b	1Mbps	1	6	2437	17.40	-		30.00	-	3.27	-	20.67	-	36.00	-	Pass
11b	1Mbps	1	11	2462	17.90	-		30.00	-	3.27	-	21.17	-	36.00	-	Pass
11g	6Mbps	1	1	2412	17.60	-		30.00	-	3.27	-	20.87	-	36.00	-	Pass
11g	6Mbps	1	6	2437	17.80	-		30.00	-	3.27	-	21.07	-	36.00	-	Pass
11g	6Mbps	1	11	2462	17.80	-		30.00	-	3.27	-	21.07	-	36.00	-	Pass
HT20	MCS0	1	1	2412	17.60	-		30.00	-	3.27	-	20.87	-	36.00	-	Pass
HT20	MCS0	1	6	2437	17.80	-		30.00	-	3.27	-	21.07	-	36.00	-	Pass
HT20	MCS0	1	11	2462	17.70	-		30.00	-	3.27	-	20.97	-	36.00	-	Pass
HT40	MCS0	1	3	2422	17.70	-		30.00	-	3.27	-	20.97	-	36.00	-	Pass
HT40	MCS0	1	6	2437	17.30	-		30.00	-	3.27	-	20.57	-	36.00	-	Pass
HT40	MCS0	1	9	2452	15.50	-		30.00	-	3.27	-	18.77	-	36.00	-	Pass

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

TEST RESULTS DATA
Peak Power Spectral Density

2.4GHz Band Single Antenna												
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Peak PSD (dBm/3kHz)			DG (dBi)		Peak PSD Limit (dBm/3kHz)		Pass/Fail
					Ant1	Ant2	Worse + 3.01	Ant1	Ant2	Ant1	Ant2	
11b	1Mbps	1	1	2412	-8.29	-		3.27	-	8.00	-	Pass
11b	1Mbps	1	6	2437	-7.81	-		3.27	-	8.00	-	Pass
11b	1Mbps	1	11	2462	-7.27	-		3.27	-	8.00	-	Pass
11g	6Mbps	1	1	2412	-8.54	-		3.27	-	8.00	-	Pass
11g	6Mbps	1	6	2437	-8.87	-		3.27	-	8.00	-	Pass
11g	6Mbps	1	11	2462	-8.72	-		3.27	-	8.00	-	Pass
HT20	MCS0	1	1	2412	-8.36	-		3.27	-	8.00	-	Pass
HT20	MCS0	1	6	2437	-8.78	-		3.27	-	8.00	-	Pass
HT20	MCS0	1	11	2462	-8.30	-		3.27	-	8.00	-	Pass
HT40	MCS0	1	3	2422	-11.43	-		3.27	-	8.00	-	Pass
HT40	MCS0	1	6	2437	-12.09	-		3.27	-	8.00	-	Pass
HT40	MCS0	1	9	2452	-12.96	-		3.27	-	8.00	-	Pass

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



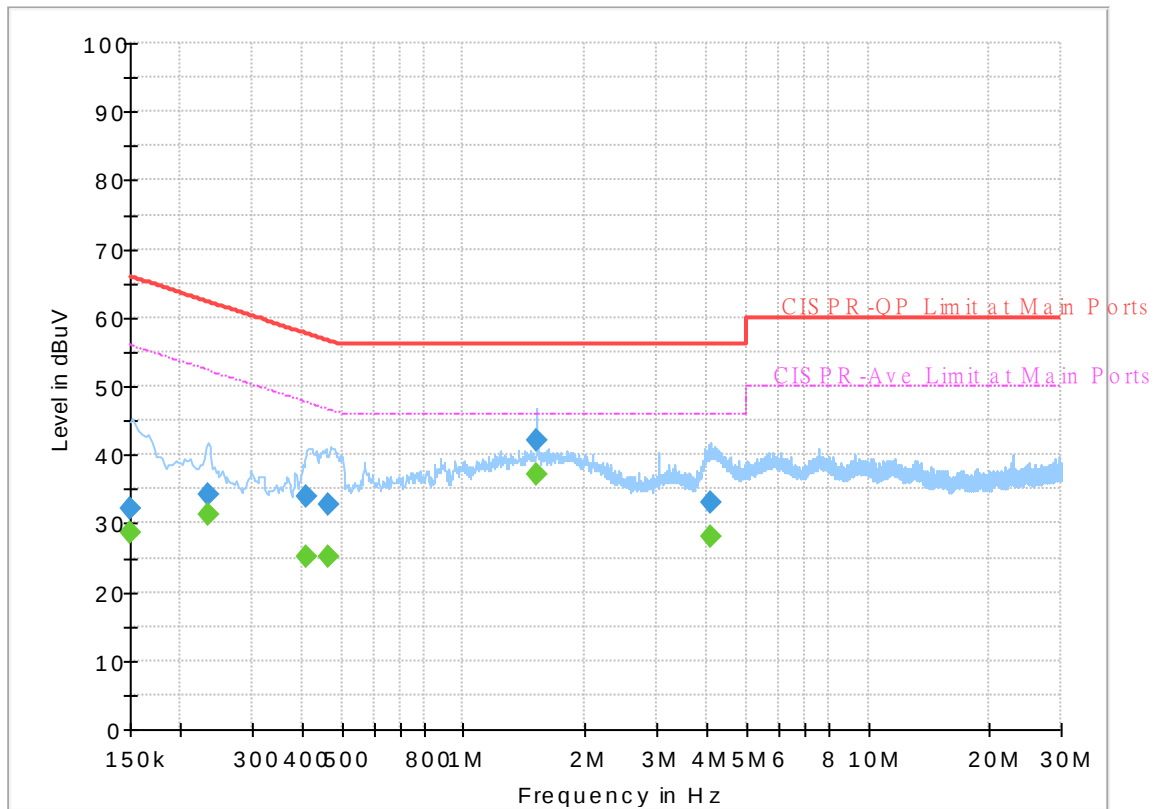
Appendix B. AC Conducted Emission Test Results

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

EUT Information

Report NO : 003042
 Test Mode : Mode 1
 Test Voltage : 120Vac/60Hz
 Phase : Line

Full Spectrum



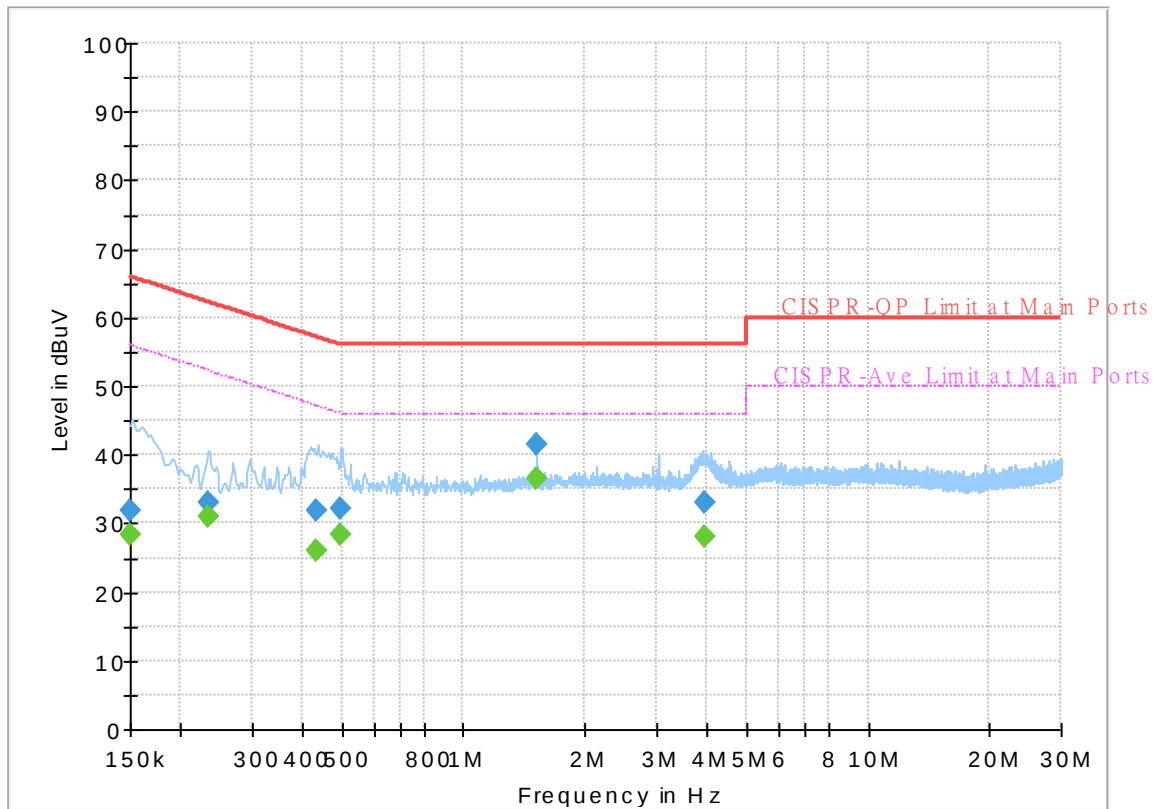
Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.150000	---	28.65	56.00	27.35	L1	OFF	19.4
0.150000	32.05	---	66.00	33.95	L1	OFF	19.4
0.233880	---	31.29	52.31	21.02	L1	OFF	19.4
0.233880	34.09	---	62.31	28.22	L1	OFF	19.4
0.411000	---	25.15	47.63	22.48	L1	OFF	19.4
0.411000	33.98	---	57.63	23.65	L1	OFF	19.4
0.465000	---	25.10	46.60	21.50	L1	OFF	19.4
0.465000	32.66	---	56.60	23.94	L1	OFF	19.4
1.516830	---	37.12	46.00	8.88	L1	OFF	19.5
1.516830	41.99	---	56.00	14.01	L1	OFF	19.5
4.082910	---	27.99	46.00	18.01	L1	OFF	19.6
4.082910	32.92	---	56.00	23.08	L1	OFF	19.6

EUT Information

Report NO : 003042
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)
0.150000	---	28.48	56.00	27.52	N	OFF	19.5
0.150000	31.77	---	66.00	34.23	N	OFF	19.5
0.234510	---	30.96	52.29	21.33	N	OFF	19.5
0.234510	33.09	---	62.29	29.20	N	OFF	19.5
0.434310	---	26.06	47.17	21.11	N	OFF	19.5
0.434310	31.74	---	57.17	25.43	N	OFF	19.5
0.497220	---	28.49	46.05	17.56	N	OFF	19.5
0.497220	32.23	---	56.05	23.82	N	OFF	19.5
1.516920	---	36.60	46.00	9.40	N	OFF	19.6
1.516920	41.56	---	56.00	14.44	N	OFF	19.6
3.961500	---	28.21	46.00	17.79	N	OFF	19.7
3.961500	33.09	---	56.00	22.91	N	OFF	19.7



Appendix C. Radiated Spurious Emission

Test Engineer :	Jesse Wang, Stan Hsieh, Ken Wu	Temperature :	23~25°C
		Relative Humidity :	51~58%

2.4GHz 2400~2483.5MHz

WIFI 802.11b (Band Edge @ 3m)

WIFI Ant.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Path Loss	Preampl Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11b CH 01 2412MHz		2367.225	53.02	-20.98	74	38.6	31.87	17.96	35.41	362	0	P	H
		2390	42.5	-11.5	54	28.11	31.8	18.01	35.42	362	0	A	H
	*	2412	103.77	-	-	89.28	31.87	18.04	35.42	362	0	P	H
	*	2412	100.74	-	-	86.25	31.87	18.04	35.42	362	0	A	H
													H
		2383.395	53.34	-20.66	74	38.92	31.83	18	35.41	200	271	P	V
		2389.38	42.53	-11.47	54	28.13	31.8	18.01	35.41	200	271	A	V
	*	2412	104.9	-	-	90.41	31.87	18.04	35.42	200	271	P	V
	*	2412	101.92	-	-	87.43	31.87	18.04	35.42	200	271	A	V
													V
802.11b CH 06 2437MHz		2366.42	52.64	-21.36	74	38.22	31.87	17.96	35.41	140	0	P	H
		2380.84	42.26	-11.74	54	27.84	31.83	18	35.41	140	0	A	H
	*	2437	103.88	-	-	89.25	32	18.06	35.43	140	0	P	H
	*	2437	100.88	-	-	86.25	32	18.06	35.43	140	0	A	H
		2496.99	53.89	-20.11	74	39.12	32.1	18.13	35.46	140	0	P	H
		2483.55	42.9	-11.1	54	28.17	32.07	18.11	35.45	140	0	A	H
		2322.04	53.11	-20.89	74	38.76	31.87	17.87	35.39	100	94	P	V
		2389.24	42.25	-11.75	54	27.85	31.8	18.01	35.41	100	94	A	V
	*	2437	104.35	-	-	89.72	32	18.06	35.43	100	94	P	V
	*	2437	101.39	-	-	86.76	32	18.06	35.43	100	94	A	V
		2489.85	53.5	-20.5	74	38.73	32.1	18.12	35.45	100	94	P	V
		2483.97	42.88	-11.12	54	28.15	32.07	18.11	35.45	100	94	A	V



802.11b CH 11 2462MHz	*	2462	108.62	-	-	93.93	32.03	18.1	35.44	100	357	P	H
	*	2462	105.56	-	-	90.87	32.03	18.1	35.44	100	357	A	H
		2486.92	57.02	-16.98	74	42.28	32.07	18.12	35.45	100	357	P	H
		2486.68	48.66	-5.34	54	33.92	32.07	18.12	35.45	100	357	A	H
													H
													H
	*	2462	109.64	-	-	94.95	32.03	18.1	35.44	243	259	P	V
	*	2462	106.55	-	-	91.86	32.03	18.1	35.44	243	259	A	V
		2485.4	55.48	-18.52	74	40.75	32.07	18.11	35.45	243	259	P	V
		2486.76	47.87	-6.13	54	33.13	32.07	18.12	35.45	243	259	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	54.78	-19.22	74	67.82	34.05	11.8	58.89	110	335	P	H
		4824	53.39	-0.61	54	66.43	34.05	11.8	58.89	110	335	A	H
													H
													H
		4824	54.34	-19.66	74	67.38	34.05	11.8	58.89	134	348	P	V
		4824	52.77	-1.23	54	65.81	34.05	11.8	58.89	134	348	A	V
													V
													V
802.11b CH 06 2437MHz		4874	55.11	-18.89	74	67.76	34.1	12.01	58.76	100	335	P	H
		4874	53.43	-0.57	54	66.08	34.1	12.01	58.76	100	335	A	H
		7311	43.48	-30.52	74	50.89	35.6	14.46	57.47	100	0	P	H
													H
		4874	53.45	-20.55	74	66.1	34.1	12.01	58.76	100	90	P	V
		4874	51.29	-2.71	54	63.94	34.1	12.01	58.76	100	90	A	V
		7311	41.85	-32.15	74	49.26	35.6	14.46	57.47	100	0	P	V
													V
802.11b CH 11 2462MHz		4924	54.73	-19.27	74	67	34.23	12.14	58.64	100	0	P	H
		4924	53.08	-0.92	54	65.35	34.23	12.14	58.64	100	0	A	H
		7386	40.58	-33.42	74	47.97	35.6	14.55	57.54	100	0	P	H
													H
		4924	54.29	-19.71	74	66.56	34.23	12.14	58.64	100	88	P	V
		4924	52.76	-1.24	54	65.03	34.23	12.14	58.64	100	88	A	V
		7386	41.15	-32.85	74	48.54	35.6	14.55	57.54	100	0	P	V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



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

WIFI Ant. 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		2389.17	61	-13	74	46.6	31.8	18.01	35.41	361	0	P	H
		2390	49.93	-4.07	54	35.54	31.8	18.01	35.42	361	0	A	H
	*	2412	109.41	-	-	94.92	31.87	18.04	35.42	361	0	P	H
	*	2412	102.52	-	-	88.03	31.87	18.04	35.42	361	0	A	H
													H
													H
		2389.8	58.9	-15.1	74	44.51	31.8	18.01	35.42	252	257	P	V
		2390	48.72	-5.28	54	34.33	31.8	18.01	35.42	252	257	A	V
	*	2412	110.92	-	-	96.43	31.87	18.04	35.42	252	257	P	V
	*	2412	103.57	-	-	89.08	31.87	18.04	35.42	252	257	A	V
													V
													V
802.11g CH 06 2437MHz		2352.7	53.19	-20.81	74	38.78	31.87	17.94	35.4	141	0	P	H
		2335.06	43.31	-10.69	54	28.9	31.9	17.9	35.39	141	0	A	H
	*	2437	110.44	-	-	95.81	32	18.06	35.43	141	0	P	H
	*	2437	103.07	-	-	88.44	32	18.06	35.43	141	0	A	H
		2486.07	56.15	-17.85	74	41.42	32.07	18.11	35.45	141	0	P	H
		2483.69	46.16	-7.84	54	31.43	32.07	18.11	35.45	141	0	A	H
		2385.74	52.71	-21.29	74	38.31	31.8	18.01	35.41	100	94	P	V
		2387.42	43.32	-10.68	54	28.92	31.8	18.01	35.41	100	94	A	V
	*	2437	111.05	-	-	96.42	32	18.06	35.43	100	94	P	V
	*	2437	103.54	-	-	88.91	32	18.06	35.43	100	94	A	V
		2483.76	56.28	-17.72	74	41.55	32.07	18.11	35.45	100	94	P	V
		2483.69	46.96	-7.04	54	32.23	32.07	18.11	35.45	100	94	A	V



802.11g CH 11 2462MHz	*	2462	108.11	-	-	93.42	32.03	18.1	35.44	100	357	P	H
	*	2462	100.39	-	-	85.7	32.03	18.1	35.44	100	357	A	H
		2484	63.95	-10.05	74	49.22	32.07	18.11	35.45	100	357	P	H
		2483.52	53.11	-0.89	54	38.38	32.07	18.11	35.45	100	357	A	H
													H
													H
	*	2462	106.99	-	-	92.3	32.03	18.1	35.44	103	95	P	V
	*	2462	99.31	-	-	84.62	32.03	18.1	35.44	103	95	A	V
		2483.84	62.44	-11.56	74	47.71	32.07	18.11	35.45	103	95	P	V
		2483.52	51.19	-2.81	54	36.46	32.07	18.11	35.45	103	95	A	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz

WIFI 802.11g (Harmonic @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11g CH 01 2412MHz		4824	54.55	-19.45	74	67.52	34.05	11.87	58.89	100	334	P	H
		4824	46.28	-7.72	54	59.25	34.05	11.87	58.89	100	334	A	H
													H
													H
		4824	55.84	-18.16	74	68.81	34.05	11.87	58.89	117	349	P	V
		4824	46.35	-7.65	54	59.32	34.05	11.87	58.89	117	349	A	V
													V
													V
802.11g CH 06 2437MHz		4874	52.93	-21.07	74	65.58	34.1	12.01	58.76	100	334	P	H
		4874	45.46	-8.54	54	58.11	34.1	12.01	58.76	100	334	A	H
		7311	46.98	-27.02	74	54.39	35.6	14.46	57.47	100	0	P	H
													H
		4874	49.77	-24.23	74	62.42	34.1	12.01	58.76	100	0	P	V
		7311	47.98	-26.02	74	55.39	35.6	14.46	57.47	100	0	P	V
													V
													V
802.11g CH 11 2462MHz		4924	47.28	-26.72	74	59.55	34.23	12.14	58.64	100	0	P	H
		7386	40	-34	74	47.39	35.6	14.55	57.54	100	0	P	H
													H
													H
		4924	49.18	-24.82	74	61.45	34.23	12.14	58.64	100	0	P	V
		7386	41.67	-32.33	74	49.06	35.6	14.55	57.54	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		2389.905	58.41	-15.59	74	43.86	31.8	17.98	35.23	262	0	P	H
		2390	48.56	-5.44	54	34.01	31.8	17.98	35.23	262	0	A	H
	*	2412	109.01	-	-	94.37	31.87	18.02	35.25	262	0	P	H
	*	2412	101.89	-	-	87.25	31.87	18.02	35.25	262	0	A	H
													H
													H
		2390	59.74	-14.26	74	45.19	31.8	17.98	35.23	197	271	P	V
		2390	50.23	-3.77	54	35.68	31.8	17.98	35.23	197	271	A	V
	*	2412	110.07	-	-	95.43	31.87	18.02	35.25	197	271	P	V
	*	2412	102.86	-	-	88.22	31.87	18.02	35.25	197	271	A	V
													V
													V
802.11n HT20 CH 06 2437MHz		2387.98	53.76	-20.24	74	39.36	31.8	18.01	35.41	283	0	P	H
		2389.94	43.69	-10.31	54	29.3	31.8	18.01	35.42	283	0	A	H
	*	2437	110.82	-	-	96.19	32	18.06	35.43	283	0	P	H
	*	2437	103.53	-	-	88.9	32	18.06	35.43	283	0	A	H
		2484.46	55.21	-18.79	74	40.48	32.07	18.11	35.45	283	0	P	H
		2483.76	44.81	-9.19	54	30.08	32.07	18.11	35.45	283	0	A	H
		2322.74	53.4	-20.6	74	39.05	31.87	17.87	35.39	100	94	P	V
		2387	43.71	-10.29	54	29.31	31.8	18.01	35.41	100	94	A	V
	*	2437	110.54	-	-	95.91	32	18.06	35.43	100	94	P	V
	*	2437	103.17	-	-	88.54	32	18.06	35.43	100	94	A	V
		2484.6	58.79	-15.21	74	44.06	32.07	18.11	35.45	100	94	P	V
		2483.69	47.08	-6.92	54	32.35	32.07	18.11	35.45	100	94	A	V



802.11n HT20 CH 11 2462MHz	*	2462	107.39	-	-	92.7	32.03	18.1	35.44	347	0	P	H
	*	2462	100.05	-	-	85.36	32.03	18.1	35.44	347	0	A	H
		2484.24	61.01	-12.99	74	46.28	32.07	18.11	35.45	347	0	P	H
		2483.52	49.73	-4.27	54	35	32.07	18.11	35.45	347	0	A	H
													H
													H
	*	2462	106.75	-	-	92.06	32.03	18.1	35.44	106	96	P	V
	*	2462	99.14	-	-	84.45	32.03	18.1	35.44	106	96	A	V
		2484.68	62.91	-11.09	74	48.18	32.07	18.11	35.45	106	96	P	V
		2483.52	51.7	-2.3	54	36.97	32.07	18.11	35.45	106	96	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	55.59	-18.41	74	68.56	34.05	11.87	58.89	114	335	P	H
		4824	45.95	-8.05	54	58.92	34.05	11.87	58.89	114	335	A	H
													H
													H
		4824	49.41	-24.59	74	62.38	34.05	11.87	58.89	100	0	P	V
													V
													V
													V
802.11n HT20 CH 06 2437MHz		4874	54.08	-19.92	74	66.73	34.1	12.01	58.76	100	334	P	H
		4874	44.93	-9.07	54	57.58	34.1	12.01	58.76	100	334	A	H
		7311	47.27	-26.73	74	54.68	35.6	14.46	57.47	100	0	P	H
													H
		4874	49.39	-24.61	74	62.04	34.1	12.01	58.76	100	0	P	V
		7311	49.11	-24.89	74	56.52	35.6	14.46	57.47	100	0	P	V
													V
													V
802.11n HT20 CH 11 2462MHz		4924	48.45	-25.55	74	60.72	34.23	12.14	58.64	100	0	P	H
		7386	41.38	-32.62	74	48.77	35.6	14.55	57.54	100	0	P	H
													H
													H
		4924	49.32	-24.68	74	61.59	34.23	12.14	58.64	100	0	P	V
		7386	43.03	-30.97	74	50.42	35.6	14.55	57.54	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		2389.8	64.07	-9.93	74	49.68	31.8	18.01	35.42	324	0	P	H
		2389.8	50.96	-3.04	54	36.57	31.8	18.01	35.42	324	0	A	H
	*	2422	108.7	-	-	94.15	31.93	18.05	35.43	324	0	P	H
	*	2422	101.26	-	-	86.71	31.93	18.05	35.43	324	0	A	H
		2484.88	55.75	-18.25	74	41.02	32.07	18.11	35.45	324	0	P	H
		2484.11	46.64	-7.36	54	31.91	32.07	18.11	35.45	324	0	A	H
		2389.94	59.88	-14.12	74	45.49	31.8	18.01	35.42	199	278	P	V
		2389.94	52.11	-1.89	54	37.72	31.8	18.01	35.42	199	278	A	V
	*	2422	108.34	-	-	93.79	31.93	18.05	35.43	199	278	P	V
	*	2422	101.17	-	-	86.62	31.93	18.05	35.43	199	278	A	V
		2483.62	59.14	-14.86	74	44.41	32.07	18.11	35.45	199	278	P	V
		2483.83	49.27	-4.73	54	34.54	32.07	18.11	35.45	199	278	A	V
802.11n HT40 CH 06 2437MHz		2336.46	53.85	-20.15	74	39.44	31.9	17.9	35.39	285	0	P	H
		2389.66	45.32	-8.68	54	30.92	31.8	18.01	35.41	285	0	A	H
	*	2437	104.37	-	-	89.74	32	18.06	35.43	285	0	P	H
	*	2437	96.67	-	-	82.04	32	18.06	35.43	285	0	A	H
		2483.55	59.57	-14.43	74	44.84	32.07	18.11	35.45	285	0	P	H
		2483.5	49.55	-4.45	54	34.82	32.07	18.11	35.45	285	0	A	H
		2364.04	54.25	-19.75	74	39.82	31.87	17.96	35.4	100	97	P	V
		2389.94	45.02	-8.98	54	30.63	31.8	18.01	35.42	100	97	A	V
	*	2437	103.97	-	-	89.34	32	18.06	35.43	100	97	P	V
	*	2437	96.24	-	-	81.61	32	18.06	35.43	100	97	A	V
		2483.62	64.68	-9.32	74	49.95	32.07	18.11	35.45	100	97	P	V
		2483.5	52.7	-1.3	54	37.97	32.07	18.11	35.45	100	97	A	V



802.11n HT40 CH 09 2452MHz		2339.26	53.89	-20.11	74	39.48	31.9	17.91	35.4	344	0	P	H
		2326.1	44.86	-9.14	54	30.5	31.87	17.88	35.39	344	0	A	H
	*	2452	105.02	-	-	90.37	32	18.09	35.44	344	0	P	H
	*	2452	97.51	-	-	82.86	32	18.09	35.44	344	0	A	H
		2483.55	63.63	-10.37	74	48.9	32.07	18.11	35.45	344	0	P	H
		2483.69	50.66	-3.34	54	35.93	32.07	18.11	35.45	344	0	A	H
		2326.38	54.11	-19.89	74	39.75	31.87	17.88	35.39	100	96	P	V
		2375.66	44.89	-9.11	54	30.48	31.83	17.99	35.41	100	96	A	V
	*	2452	103.59	-	-	88.94	32	18.09	35.44	100	96	P	V
	*	2452	96.13	-	-	81.48	32	18.09	35.44	100	96	A	V
		2483.62	65.63	-8.37	74	50.9	32.07	18.11	35.45	100	96	P	V
		2483.5	51.71	-2.29	54	36.98	32.07	18.11	35.45	100	96	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



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

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT40 CH 03 2422MHz		4844	48.87	-25.13	74	61.68	34.1	11.93	58.84	100	0	P	H
		7266	45.43	-28.57	74	52.84	35.6	14.42	57.43	100	0	P	H
													H
													H
		4844	46.78	-27.22	74	59.59	34.1	11.93	58.84	100	0	P	V
		7266	46.92	-27.08	74	54.33	35.6	14.42	57.43	100	0	P	V
													V
													V
802.11n HT40 CH 06 2437MHz		4874	45.36	-28.64	74	58.01	34.1	12.01	58.76	100	0	P	H
		7311	43.43	-30.57	74	50.84	35.6	14.46	57.47	100	0	P	H
													H
													H
		4874	45.27	-28.73	74	57.92	34.1	12.01	58.76	100	0	P	V
		7311	43.96	-30.04	74	51.37	35.6	14.46	57.47	100	0	P	V
													V
													V
802.11n HT40 CH 09 2452MHz		4904	43.9	-30.1	74	56.32	34.17	12.1	58.69	100	0	P	H
		7356	41.95	-32.05	74	49.44	35.5	14.52	57.51	100	0	P	H
													H
													H
		4904	45.18	-28.82	74	57.6	34.17	12.1	58.69	100	0	P	V
		7356	42.16	-31.84	74	49.65	35.5	14.52	57.51	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Emission below 1GHz

2.4GHz WIFI 802.11b (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 802.11b LF		106.68	35.58	-7.92	43.5	47.13	16.69	1.73	29.97	100	0	P	H
		147.99	26.96	-16.54	43.5	37.67	17.2	2.04	29.95	-	-	P	H
		192.27	31.2	-12.3	43.5	44.02	14.78	2.33	29.93	-	-	P	H
		856.5	31.65	-14.35	46	27	28.86	4.98	29.19	-	-	P	H
		912.5	32.1	-13.9	46	27.02	28.85	5.15	28.92	-	-	P	H
		955.2	33.66	-12.34	46	26.53	30.53	5.27	28.67	-	-	P	H
													H
													H
													H
													H
													H
													H
		30	32.23	-7.77	40	36.99	24.32	0.93	30.01	-	-	P	V
		66.72	33.77	-6.23	40	50.36	12.02	1.37	29.98	100	0	P	V
		105.06	28.66	-14.84	43.5	40.32	16.6	1.71	29.97	-	-	P	V
		860	31.92	-14.08	46	27.2	28.9	4.99	29.17	-	-	P	V
		913.9	32.1	-13.9	46	26.98	28.87	5.16	28.91	-	-	P	V
		958.7	33.21	-12.79	46	26.14	30.44	5.28	28.65	-	-	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 :	Jesse Wang, Stan Hsieh, Ken Wu	Temperature :	23~25°C
		Relative Humidity :	51~58%

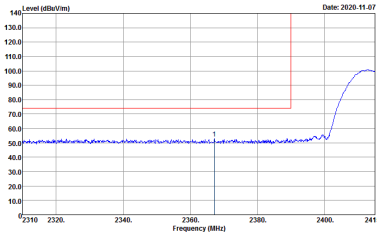
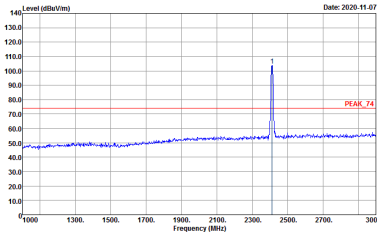
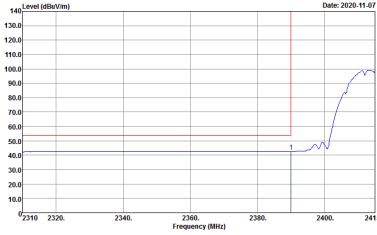
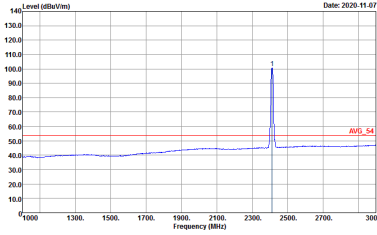
Note symbol

-L	Low channel location
-R	High channel location

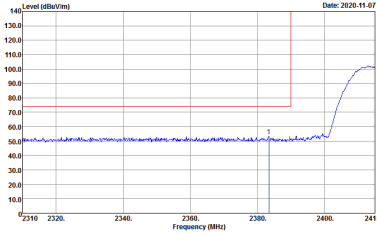
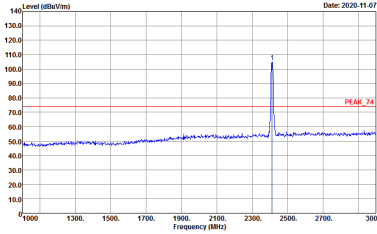
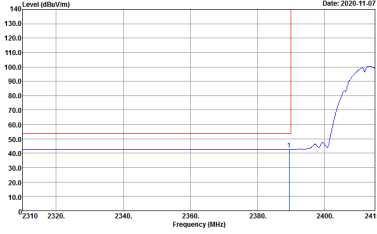
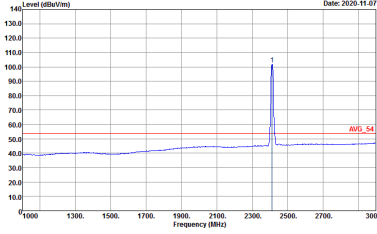


2.4GHz 2400~2483.5MHz

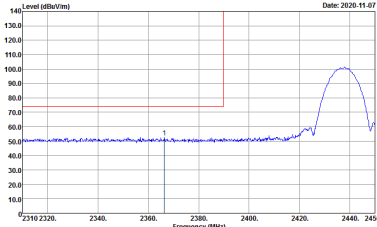
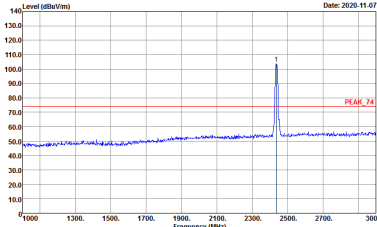
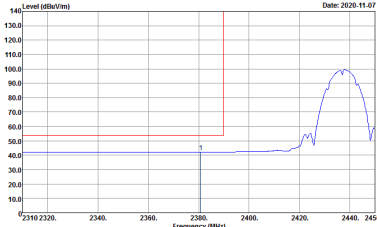
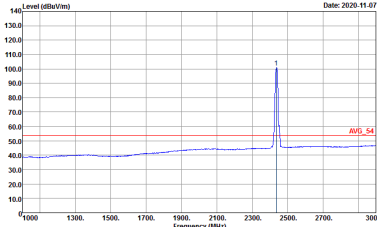
WIFI 802.11b (Band Edge @ 3m)

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH01 2412MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00075962 HORIZONTAL Detector : Peak Project : 003042 Mode : 19	 Site : 03CH07-HY Condition : PEAK_74 3m HF_ANT_00075962 HORIZONTAL Detector : Peak Project : 003042 Mode : 19
Avg.	 Site : 03CH07-HY Condition : AVG_BE_24 3m HF_ANT_00075962 HORIZONTAL Detector : Peak Project : 003042 Mode : 19	 Site : 03CH07-HY Condition : AVG_24 3m HF_ANT_00075962 HORIZONTAL Detector : Peak Project : 003042 Mode : 19

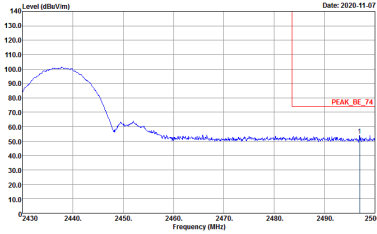
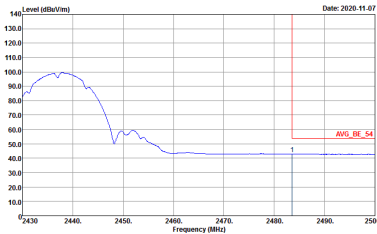


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH01 2412MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00075962 VERTICAL Detector : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Detector : Peak Project : 003042 Mode : 9	 Site : 03CH07-HY Condition : PEAK_74 3m HF_ANT_00075962 VERTICAL Detector : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Detector : Peak Project : 003042 Mode : 9
Avg.	 Site : 03CH07-HY Condition : AVG_BE_74 3m HF_ANT_00075962 VERTICAL Detector : RBW:1000.000kHz VBW:0.010kHz SWT:Auto Detector : Peak Project : 003042 Mode : 9	 Site : 03CH07-HY Condition : AVG_74 3m HF_ANT_00075962 VERTICAL Detector : RBW:1000.000kHz VBW:0.010kHz SWT:Auto Detector : Peak Project : 003042 Mode : 9

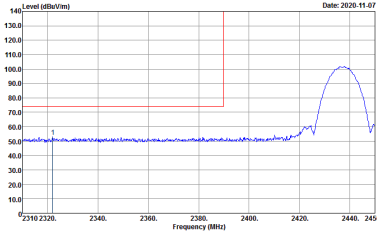
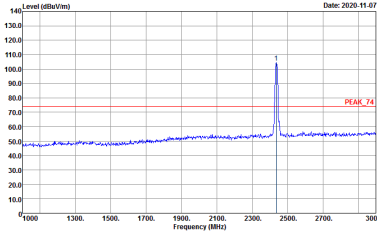
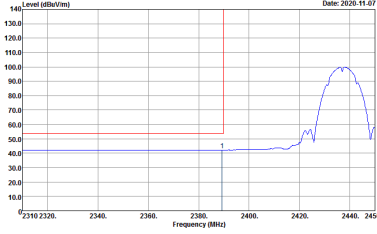
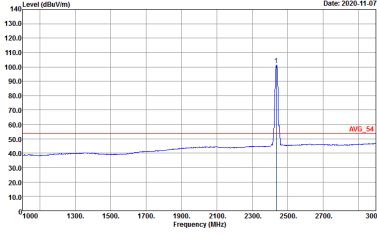


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH06 2437MHz - L	
1	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00075962 HORIZONTAL Detector : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Project : Peak Mode : 003042 Date: 2020-11-07	 Site : 03CH07-HY Condition : PEAK_74 3m HF_ANT_00075962 HORIZONTAL Detector : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Project : Peak Mode : 003042 Date: 2020-11-07
Avg.	 Site : 03CH07-HY Condition : AVG_BE_74 3m HF_ANT_00075962 HORIZONTAL Detector : RBW:1000.000kHz VBW:0.010kHz SWT:Auto Project : Peak Mode : 003042 Date: 2020-11-07	 Site : 03CH07-HY Condition : AVG_74 3m HF_ANT_00075962 HORIZONTAL Detector : RBW:1000.000kHz VBW:0.010kHz SWT:Auto Project : Peak Mode : 003042 Date: 2020-11-07

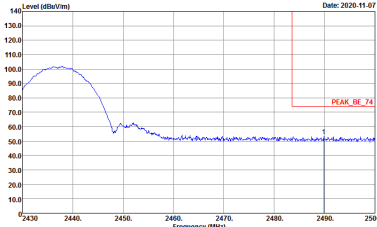
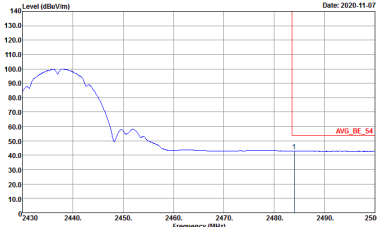


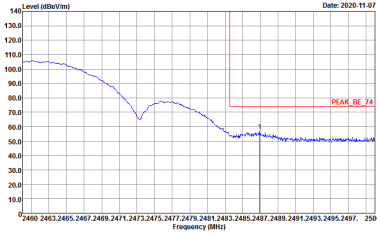
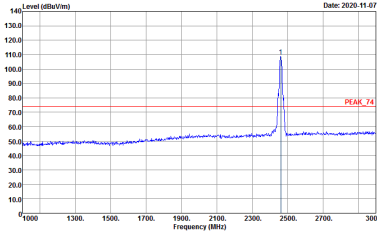
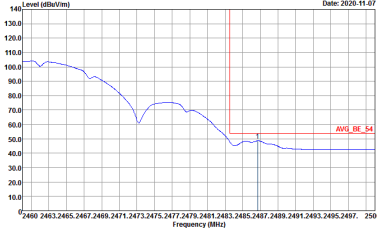
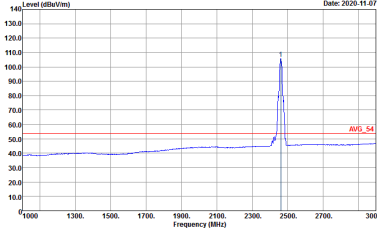
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH06 2437MHz - R	
1	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00075962 HORIZONTAL RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Detector : Peak Project : 003042 Mode : 10	Left blank
Avg.	 Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANT_00075962 HORIZONTAL RBW:1000.000kHz VBW:0.010kHz SWT:Auto Detector : Peak Project : 003042 Mode : 10	Left blank

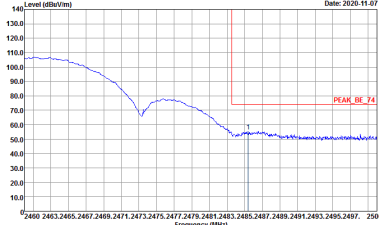
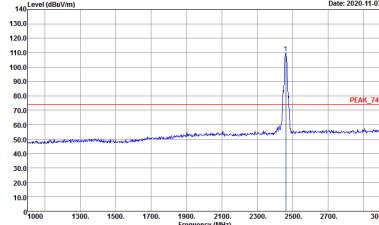
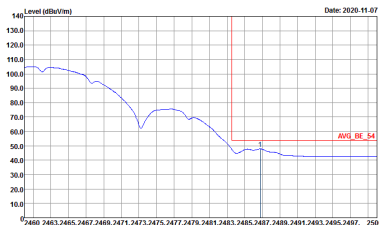
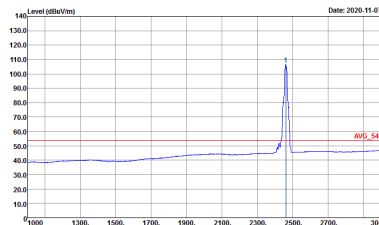


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH06 2437MHz - L	
1	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00075962 VERTICAL Detector : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Project : Peak Mode : 003042 Date: 2020-11-07	 Site : 03CH07-HY Condition : PEAK_74 3m HF_ANT_00075962 VERTICAL Detector : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Project : Peak Mode : 003042 Date: 2020-11-07
Avg.	 Site : 03CH07-HY Condition : AVG_BE_74 3m HF_ANT_00075962 VERTICAL Detector : RBW:1000.000kHz VBW:0.010kHz SWT:Auto Project : Peak Mode : 003042 Date: 2020-11-07	 Site : 03CH07-HY Condition : AVG_74 3m HF_ANT_00075962 VERTICAL Detector : RBW:1000.000kHz VBW:0.010kHz SWT:Auto Project : Peak Mode : 003042 Date: 2020-11-07

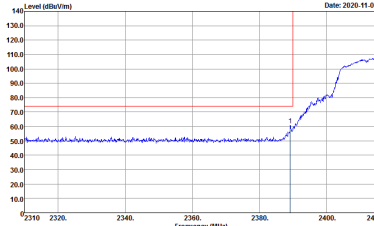
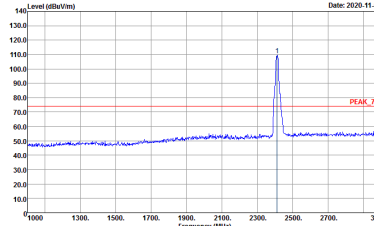
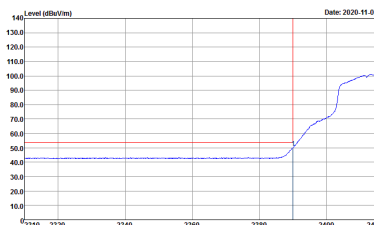
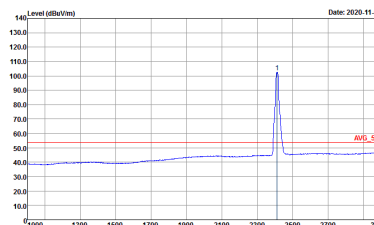


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH06 2437MHz - R	
1	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00075962 VERTICAL Detector : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Project : Peak Mode : 003042 Date: 2020-11-07	Left blank
Avg.	 Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANT_00075962 VERTICAL Detector : RBW:1000.000kHz VBW:0.010kHz SWT:Auto Project : Peak Mode : 003042 Date: 2020-11-07	Left blank

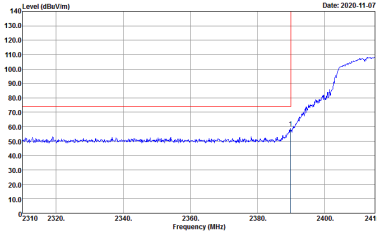
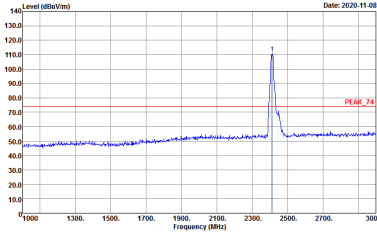
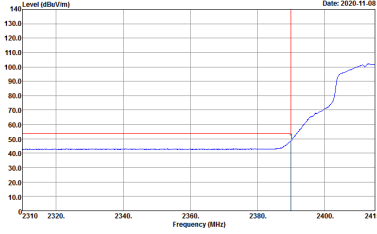
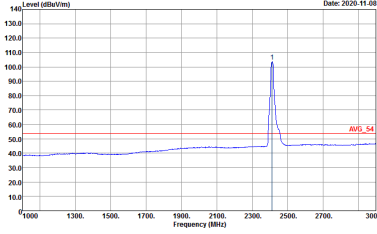
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH11 2462MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00075962 HORIZONTAL Detector : Peak Project : 003042 Mode : 11	 Site : 03CH07-HY Condition : PEAK_74 3m HF_ANT_00075962 HORIZONTAL Detector : Peak Project : 003042 Mode : 11
Avg.	 Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANT_00075962 HORIZONTAL Detector : Peak Project : 003042 Mode : 11	 Site : 03CH07-HY Condition : AVG_54 3m HF_ANT_00075962 HORIZONTAL Detector : Peak Project : 003042 Mode : 11

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH11 2462MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00075962 VERTICAL Detector : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Project : Peak Mode : 003042 Date: 2020-11-07	 Site : 03CH07-HY Condition : PEAK_74 3m HF_ANT_00075962 VERTICAL Detector : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Project : Peak Mode : 003042 Date: 2020-11-07
	 Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANT_00075962 VERTICAL Detector : RBW:1000.000kHz VBW:0.010kHz SWT:Auto Project : Peak Mode : 003042 Date: 2020-11-07	 Site : 03CH07-HY Condition : AVG_54 3m HF_ANT_00075962 VERTICAL Detector : RBW:1000.000kHz VBW:0.010kHz SWT:Auto Project : Peak Mode : 003042 Date: 2020-11-07

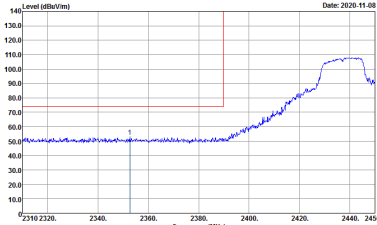
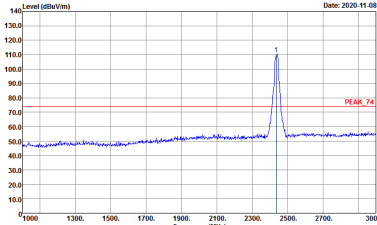
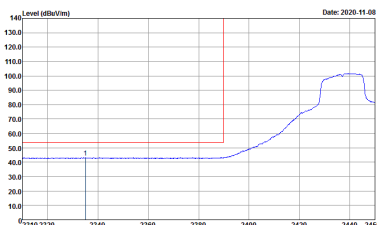
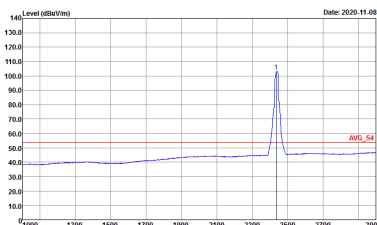
2.4GHz 2400~2483.5MHz
WIFI 802.11g (Band Edge @ 3m)

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH01 2412MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00075962 HORIZONTAL Detector : Peak Project : 003042 Mode : 12	 Site : 03CH07-HY Condition : PEAK_74 3m HF_ANT_00075962 HORIZONTAL Detector : Peak Project : 003042 Mode : 12
Avg.	 Site : 03CH07-HY Condition : AVG_BE_74 3m HF_ANT_00075962 HORIZONTAL Detector : Peak Project : 003042 Mode : 12	 Site : 03CH07-HY Condition : AVG_74 3m HF_ANT_00075962 HORIZONTAL Detector : Peak Project : 003042 Mode : 12

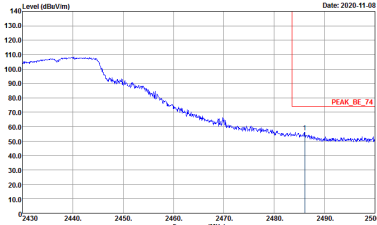
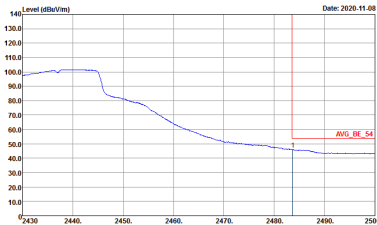


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH01 2412MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00075962 VERTICAL Detector : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Project : Peak Mode : 003042 Date: 2020-11-07	 Site : 03CH07-HY Condition : PEAK_74 3m HF_ANT_00075962 VERTICAL Detector : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Project : Peak Mode : 003042 Date: 2020-11-08
Avg.	 Site : 03CH07-HY Condition : AVG_BE_34 3m HF_ANT_00075962 VERTICAL Detector : RBW:1000.000kHz VBW:1.000kHz SWT:Auto Project : Peak Mode : 003042 Date: 2020-11-08	 Site : 03CH07-HY Condition : AVG_34 3m HF_ANT_00075962 VERTICAL Detector : RBW:1000.000kHz VBW:1.000kHz SWT:Auto Project : Peak Mode : 003042 Date: 2020-11-08

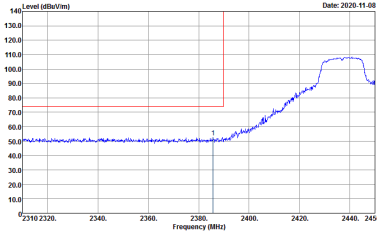
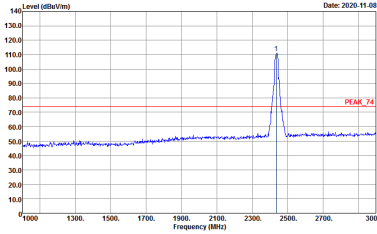
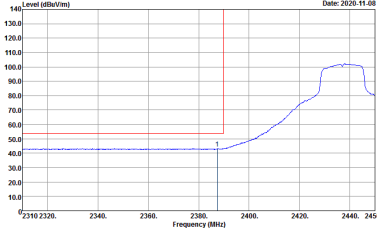
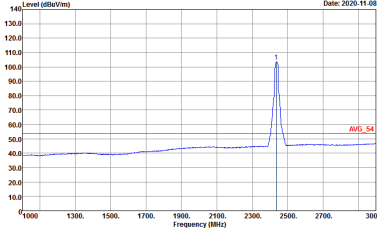


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH06 2437MHz - L	
1	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00075962 HORIZONTAL Detector : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Project : Peak Mode : 003042 Date: 2020-11-08	 Site : 03CH07-HY Condition : PEAK_74 3m HF_ANT_00075962 HORIZONTAL Detector : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Project : Peak Mode : 003042 Date: 2020-11-08
Avg.	 Site : 03CH07-HY Condition : AVG_BE_74 3m HF_ANT_00075962 HORIZONTAL Detector : RBW:1000.000kHz VBW:1.000kHz SWT:Auto Project : Peak Mode : 003042 Date: 2020-11-08	 Site : 03CH07-HY Condition : AVG_74 3m HF_ANT_00075962 HORIZONTAL Detector : RBW:1000.000kHz VBW:1.000kHz SWT:Auto Project : Peak Mode : 003042 Date: 2020-11-08

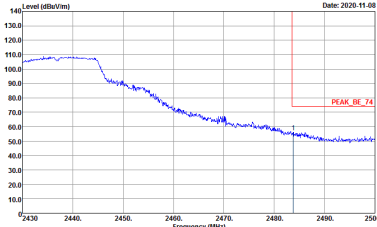
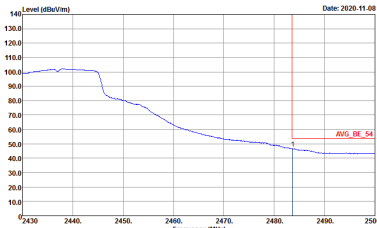


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH06 2437MHz - R	
1	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00075962 HORIZONTAL Detector : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Project : Peak Mode : 003042 Date: 2020-11-08	Left blank
Avg.	 Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANT_00075962 HORIZONTAL Detector : RBW:1000.000kHz VBW:1.000kHz SWT:Auto Project : Peak Mode : 003042 Date: 2020-11-08	Left blank



WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH06 2437MHz - L	
1	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00075962 VERTICAL Detector : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Detector : Peak Project : 003042 Mode : 13	 Site : 03CH07-HY Condition : PEAK_74 3m HF_ANT_00075962 VERTICAL Detector : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Detector : Peak Project : 003042 Mode : 13
Avg.	 Site : 03CH07-HY Condition : AVG_BE_34 3m HF_ANT_00075962 VERTICAL Detector : RBW:1000.000kHz VBW:1.000kHz SWT:Auto Detector : Peak Project : 003042 Mode : 13	 Site : 03CH07-HY Condition : AVG_34 3m HF_ANT_00075962 VERTICAL Detector : RBW:1000.000kHz VBW:1.000kHz SWT:Auto Detector : Peak Project : 003042 Mode : 13

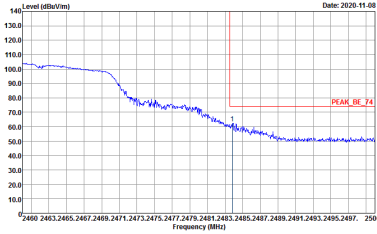
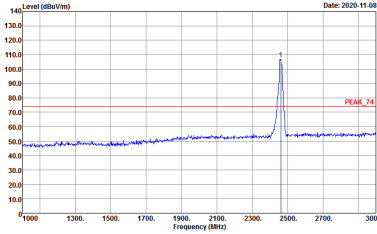
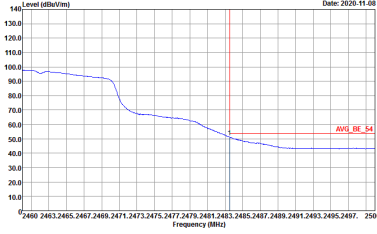
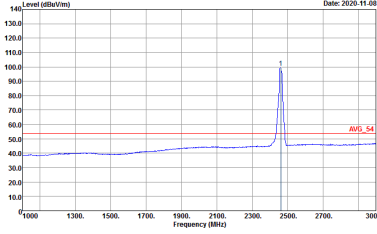


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH06 2437MHz - R	
1	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00075962 VERTICAL Detector : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Project : Peak Mode : 003042 Date: 2020-11-08	Left Blank
Avg.	 Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANT_00075962 VERTICAL Detector : RBW:1000.000kHz VBW:1.000kHz SWT:Auto Project : Peak Mode : 003042 Date: 2020-11-08	Left Blank

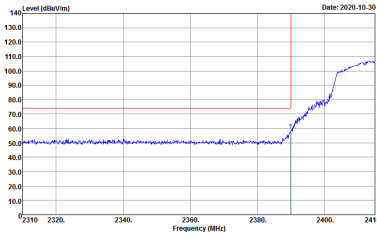
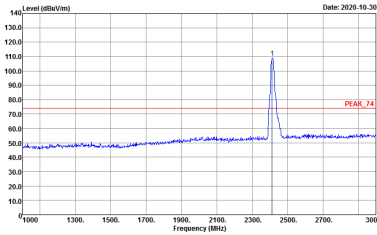
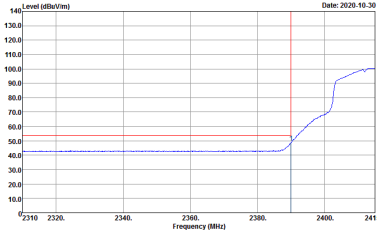
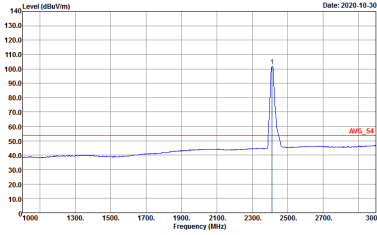


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH11 2462MHz	
1	Horizontal	Fundamental
Peak	Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00075962 HORIZONTAL Detector : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Project : Peak Mode : 003042 Date: 2020-11-08	Site : 03CH07-HY Condition : PEAK_74 3m HF_ANT_00075962 HORIZONTAL Detector : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Project : Peak Mode : 003042 Date: 2020-11-08
Avg.	Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANT_00075962 HORIZONTAL Detector : RBW:1000.000kHz VBW:1.000kHz SWT:Auto Project : Peak Mode : 003042 Date: 2020-11-08	Site : 03CH07-HY Condition : AVG_54 3m HF_ANT_00075962 HORIZONTAL Detector : RBW:1000.000kHz VBW:1.000kHz SWT:Auto Project : Peak Mode : 003042 Date: 2020-11-08

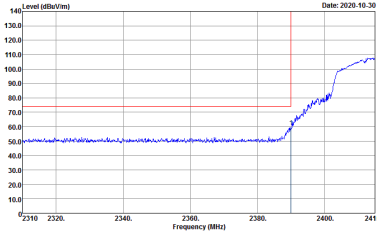
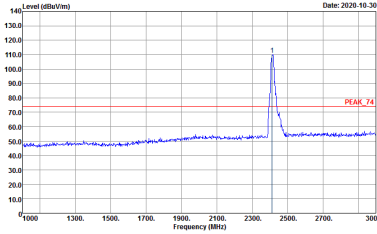
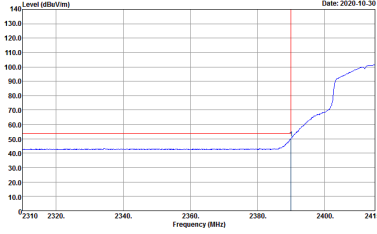
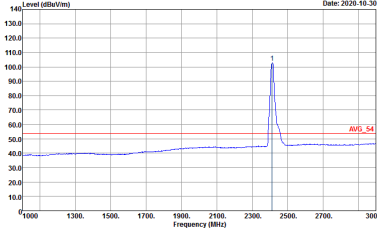


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH11 2462MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00075962 VERTICAL Detector : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Project : Peak Mode : 003042 : 14	 Site : 03CH07-HY Condition : PEAK_74 3m HF_ANT_00075962 VERTICAL Detector : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Project : Peak Mode : 003042 : 14
Avg.	 Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANT_00075962 VERTICAL Detector : RBW:1000.000kHz VBW:1.000kHz SWT:Auto Project : Peak Mode : 003042 : 14	 Site : 03CH07-HY Condition : AVG_54 3m HF_ANT_00075962 VERTICAL Detector : RBW:1000.000kHz VBW:1.000kHz SWT:Auto Project : Peak Mode : 003042 : 14

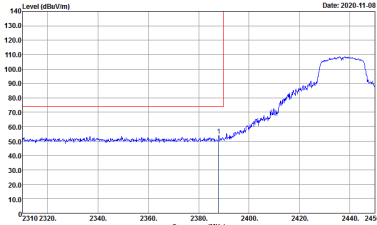
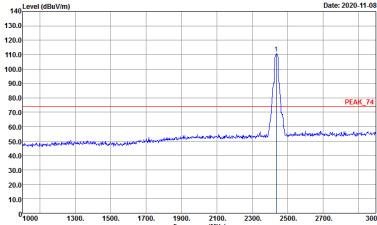
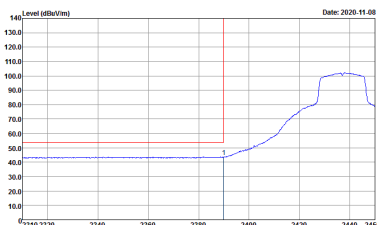
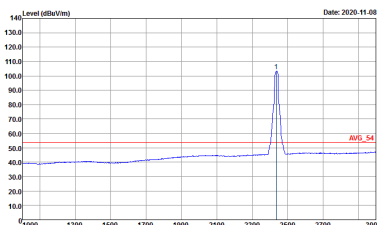
2.4GHz 2400~2483.5MHz
WIFI 802.11n HT20 (Band Edge @ 3m)

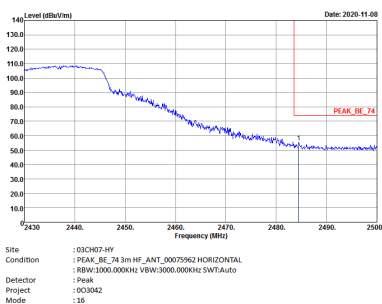
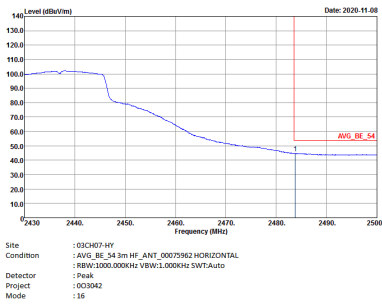
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH01 2412MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00075962 HORIZONTAL Detector : Peak Project : 003042 Mode : 15	 Site : 03CH07-HY Condition : PEAK_74 3m HF_ANT_00075962 HORIZONTAL Detector : Peak Project : 003042 Mode : 15
	 Site : 03CH07-HY Condition : AVG_BE_24 3m HF_ANT_00075962 HORIZONTAL Detector : Peak Project : 003042 Mode : 15	 Site : 03CH07-HY Condition : AVG_24 3m HF_ANT_00075962 HORIZONTAL Detector : Peak Project : 003042 Mode : 15

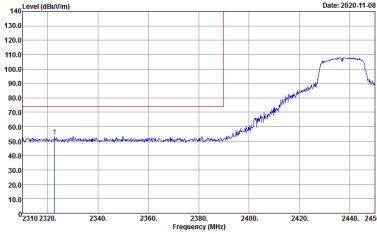
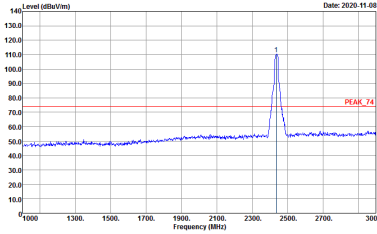
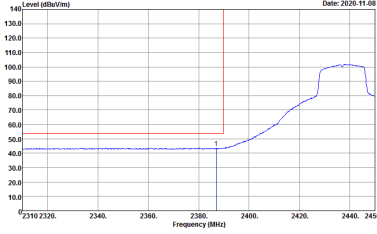
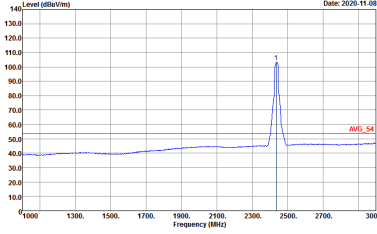


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH01 2412MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00075962 VERTICAL Detector : RBW:1000.000kHz VBW:3000.000kHz SWTAuto Project : Peak Mode : 003042 Date: 2020-10-30	 Site : 03CH07-HY Condition : PEAK_74 3m HF_ANT_00075962 VERTICAL Detector : RBW:1000.000kHz VBW:3000.000kHz SWTAuto Project : Peak Mode : 003042 Date: 2020-10-30
Avg.	 Site : 03CH07-HY Condition : AVG_BE_34 3m HF_ANT_00075962 VERTICAL Detector : RBW:1000.000kHz VBW:1.000kHz SWTAuto Project : Peak Mode : 003042 Date: 2020-10-30	 Site : 03CH07-HY Condition : AVG_34 3m HF_ANT_00075962 VERTICAL Detector : RBW:1000.000kHz VBW:1.000kHz SWTAuto Project : Peak Mode : 003042 Date: 2020-10-30

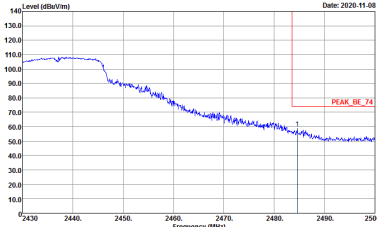
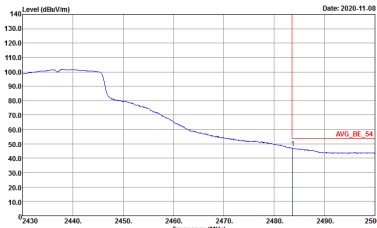


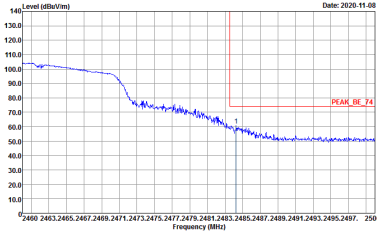
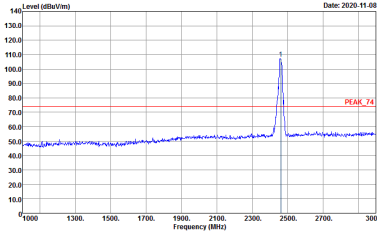
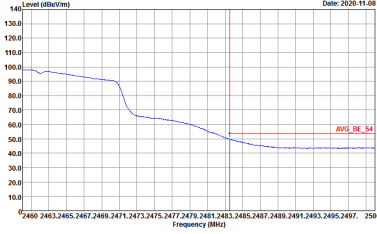
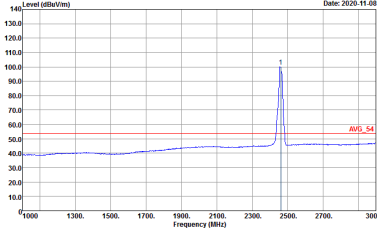
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH06 2437MHz - L	
1	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00075962 HORIZONTAL Detector : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Peak Project : 003042 Mode : 16	 Site : 03CH07-HY Condition : PEAK_74 3m HF_ANT_00075962 HORIZONTAL Detector : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Peak Project : 003042 Mode : 16
Avg.	 Site : 03CH07-HY Condition : AVG_BE_34 3m HF_ANT_00075962 HORIZONTAL Detector : RBW:1000.000kHz VBW:1.000kHz SWT:Auto Peak Project : 003042 Mode : 16	 Site : 03CH07-HY Condition : AVG_34 3m HF_ANT_00075962 HORIZONTAL Detector : RBW:1000.000kHz VBW:1.000kHz SWT:Auto Peak Project : 003042 Mode : 16

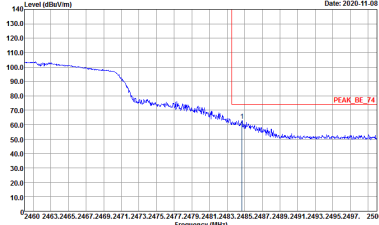
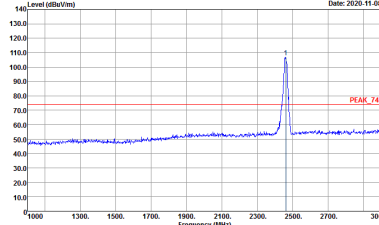
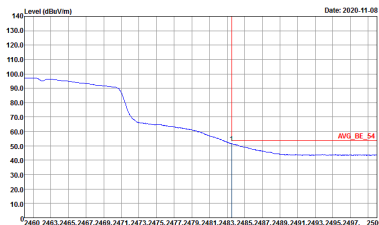
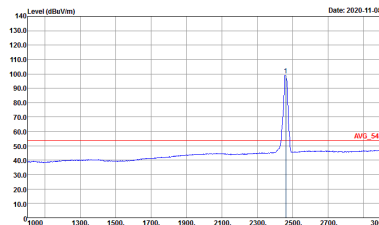
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH06 2437MHz - R	
1	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH06 2437MHz - L	
1	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00075962 VERTICAL Detector : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Project : Peak Mode : 003042 Date: 2020.11.08	 Site : 03CH07-HY Condition : PEAK_74 3m HF_ANT_00075962 VERTICAL Detector : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Project : Peak Mode : 003042 Date: 2020.11.08
Avg.	 Site : 03CH07-HY Condition : AVG_BE_34 3m HF_ANT_00075962 VERTICAL Detector : RBW:1000.000kHz VBW:1.000kHz SWT:Auto Project : Peak Mode : 003042 Date: 2020.11.08	 Site : 03CH07-HY Condition : AVG_34 3m HF_ANT_00075962 VERTICAL Detector : RBW:1000.000kHz VBW:1.000kHz SWT:Auto Project : Peak Mode : 003042 Date: 2020.11.08



WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH06 2437MHz - R	
1	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00075962 VERTICAL Detector : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Project : Peak Mode : 003042 Date: 2020-11-08	Left Blank
Avg.	 Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANT_00075962 VERTICAL Detector : RBW:1000.000kHz VBW:1.000kHz SWT:Auto Project : Peak Mode : 003042 Date: 2020-11-08	Left Blank

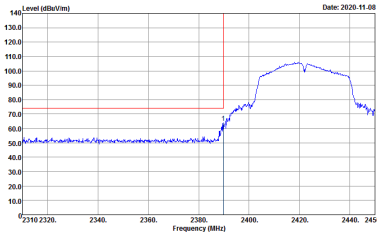
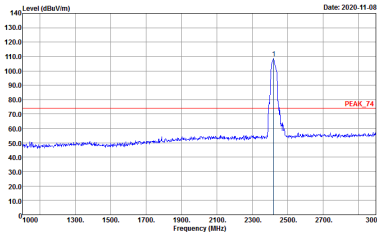
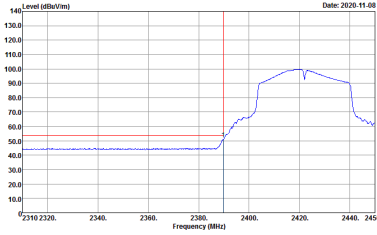
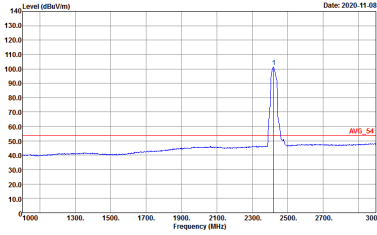
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH11 2462MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00075962 HORIZONTAL Detector : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Project : Peak Mode : 003042 : 17	 Site : 03CH07-HY Condition : PEAK_74 3m HF_ANT_00075962 HORIZONTAL Detector : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Project : Peak Mode : 003042 : 17
Avg.	 Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANT_00075962 HORIZONTAL Detector : RBW:1000.000kHz VBW:1.000kHz SWT:Auto Project : Peak Mode : 003042 : 17	 Site : 03CH07-HY Condition : AVG_54 3m HF_ANT_00075962 HORIZONTAL Detector : RBW:1000.000kHz VBW:1.000kHz SWT:Auto Project : Peak Mode : 003042 : 17

WIFI	2.4GHz 2400~2483.5MHz Fundamental @ 3m	
ANT	802.11n HT20 CH11 2462MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00075962 VERTICAL Detector : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Project : Peak Mode : 003042 Date: 2020-11-08	 Site : 03CH07-HY Condition : PEAK_74 3m HF_ANT_00075962 VERTICAL Detector : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Project : Peak Mode : 003042 Date: 2020-11-08
Avg.	 Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANT_00075962 VERTICAL Detector : RBW:1000.000kHz VBW:1.000kHz SWT:Auto Project : Peak Mode : 003042 Date: 2020-11-08	 Site : 03CH07-HY Condition : AVG_54 3m HF_ANT_00075962 VERTICAL Detector : RBW:1000.000kHz VBW:1.000kHz SWT:Auto Project : Peak Mode : 003042 Date: 2020-11-08

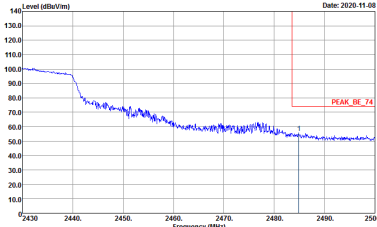
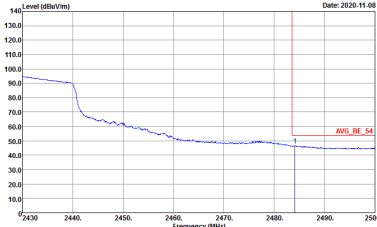


2.4GHz 2400~2483.5MHz

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 : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00075962 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 003042 Mode : 18	 Site : 03CH07-HY Condition : PEAK_74 3m HF_ANT_00075962 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 003042 Mode : 18
Avg.	 Site : 03CH07-HY Condition : AVG_BE_74 3m HF_ANT_00075962 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 003042 Mode : 18	 Site : 03CH07-HY Condition : AVG_74 3m HF_ANT_00075962 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 003042 Mode : 18

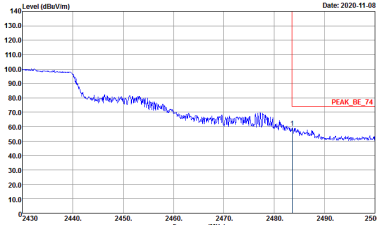
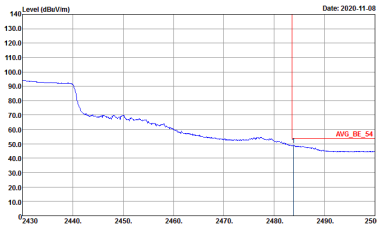


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH03 2422MHz - R	
1	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00075962 HORIZONTAL Detector : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Project : Peak Mode : 003042 Date: 2020-11-08	Left Blank
Avg.	 Site : 03CH07-HY Condition : AVG_BE_54 3m HE_ANT_00075962 HORIZONTAL Detector : RBW:1000.000kHz VBW:3.000kHz SWT:Auto Project : Peak Mode : 003042 Date: 2020-11-08	Left Blank

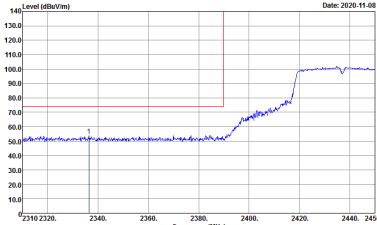
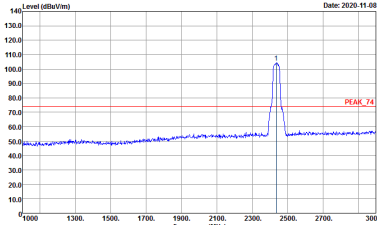
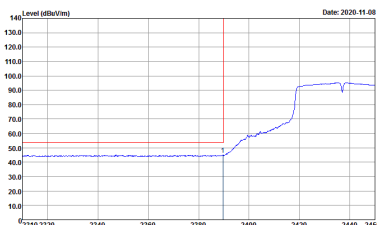
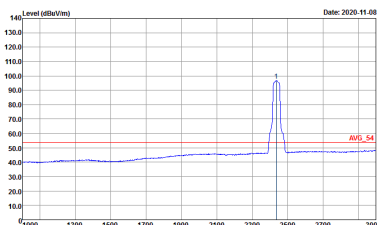


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH03 2422MHz - L	
1	Vertical	Fundamental
Peak	Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00075962 VERTICAL Detector : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Detector : Peak Project : 003042 Mode : 18	Site : 03CH07-HY Condition : PEAK_74 3m HF_ANT_00075962 VERTICAL Detector : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Detector : Peak Project : 003042 Mode : 18
Avg.	Site : 03CH07-HY Condition : AVG_BE_34 3m HF_ANT_00075962 VERTICAL Detector : RBW:1000.000kHz VBW:3.000kHz SWT:Auto Detector : Peak Project : 003042 Mode : 18	Site : 03CH07-HY Condition : AVG_34 3m HF_ANT_00075962 VERTICAL Detector : RBW:1000.000kHz VBW:3.000kHz SWT:Auto Detector : Peak Project : 003042 Mode : 18

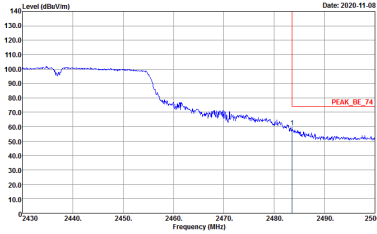
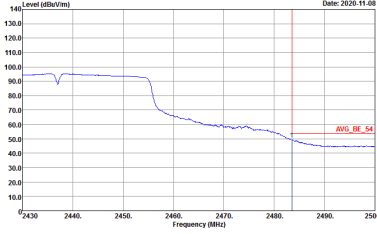


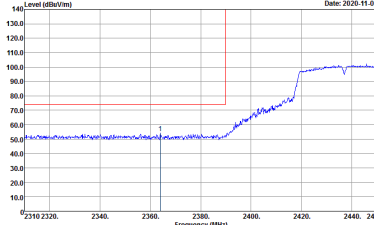
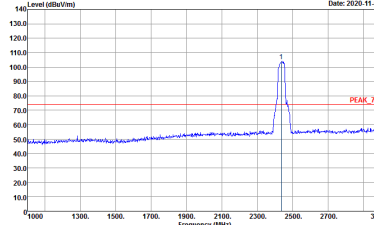
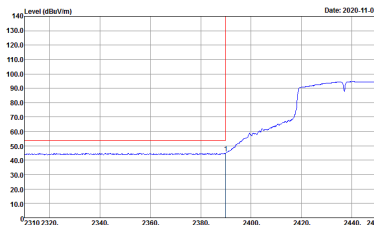
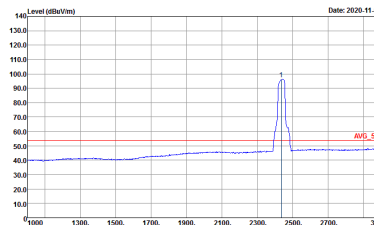
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH03 2422MHz - R	
1	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00075962 VERTICAL Detector : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Project : Peak Mode : 003042 Date: 2020-11-08	Left blank
Avg.	 Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANT_00075962 VERTICAL Detector : RBW:1000.000kHz VBW:3.000kHz SWT:Auto Project : Peak Mode : 003042 Date: 2020-11-08	Left blank



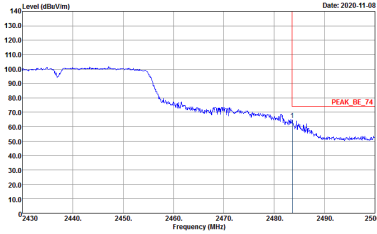
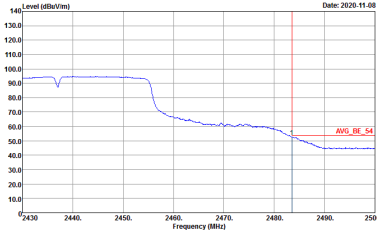
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH06 2437MHz - L	
1	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00075962 HORIZONTAL Detector : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Project : Peak Mode : 003042 Date: 2020.11.08	 Site : 03CH07-HY Condition : PEAK_74 3m HF_ANT_00075962 HORIZONTAL Detector : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Project : Peak Mode : 003042 Date: 2020.11.08
Avg.	 Site : 03CH07-HY Condition : AVG_BE_34 3m HF_ANT_00075962 HORIZONTAL Detector : RBW:1000.000kHz VBW:3.000kHz SWT:Auto Project : Peak Mode : 003042 Date: 2020.11.08	 Site : 03CH07-HY Condition : AVG_34 3m HF_ANT_00075962 HORIZONTAL Detector : RBW:1000.000kHz VBW:3.000kHz SWT:Auto Project : Peak Mode : 003042 Date: 2020.11.08



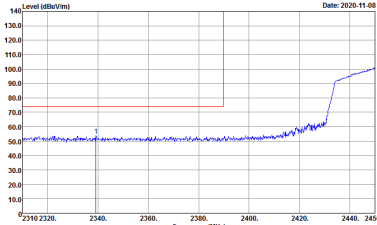
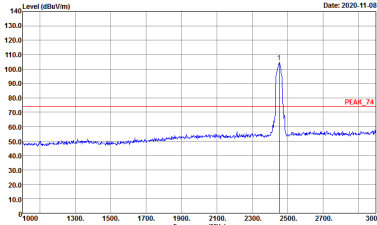
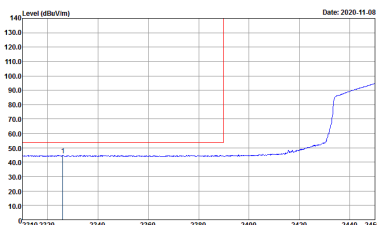
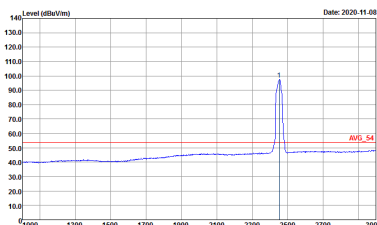
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH06 2437MHz - R	
1	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00075962 HORIZONTAL Detector : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Project : Peak Mode : 003042 Date: 2020-11-08	Left blank
Avg.	 Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANT_00075962 HORIZONTAL Detector : RBW:1000.000kHz VBW:3.000kHz SWT:Auto Project : Peak Mode : 003042 Date: 2020-11-08	Left blank

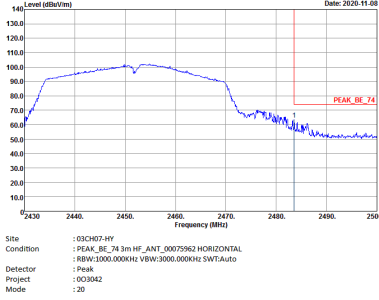
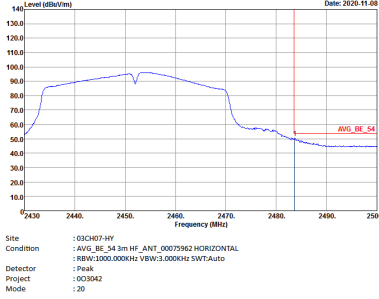
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH06 2437MHz - L	
1	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00075962 VERTICAL Detector : Peak Project : 003042 Mode : 19	 Site : 03CH07-HY Condition : PEAK_74 3m HF_ANT_00075962 VERTICAL Detector : Peak Project : 003042 Mode : 19
Avg.	 Site : 03CH07-HY Condition : AVG_BE_34 3m HF_ANT_00075962 VERTICAL Detector : Peak Project : 003042 Mode : 19	 Site : 03CH07-HY Condition : AVG_34 3m HF_ANT_00075962 VERTICAL Detector : Peak Project : 003042 Mode : 19



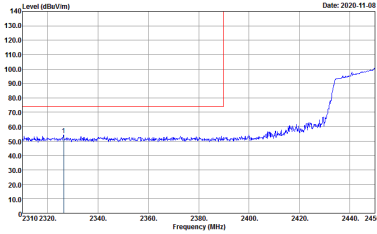
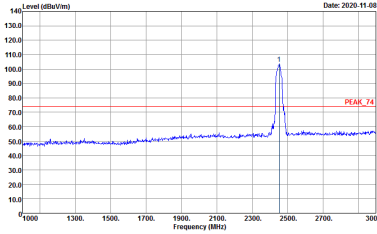
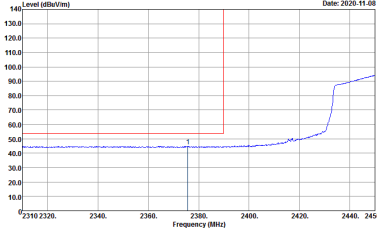
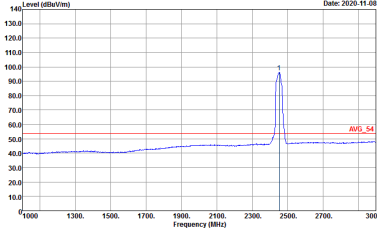
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH06 2437MHz - R	
1	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00075962 VERTICAL Detector : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Project : Peak Mode : 003042 Date: 2020-11-08	Left blank
Avg.	 Site : 03CH07-HY Condition : AVG_BE_34 3m HF_ANT_00075962 VERTICAL Detector : RBW:1000.000kHz VBW:3.000kHz SWT:Auto Project : Peak Mode : 003042 Date: 2020-11-08	Left blank



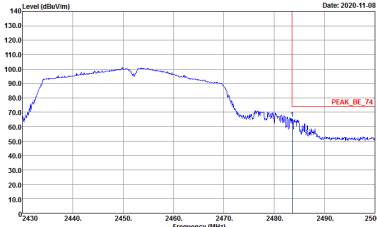
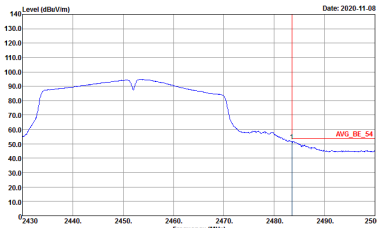
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH09 2452MHz - L	
1	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00075962 HORIZONTAL Detector : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Project : Peak Mode : 003042 Date: 2020.11.08	 Site : 03CH07-HY Condition : PEAK_74 3m HF_ANT_00075962 HORIZONTAL Detector : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Project : Peak Mode : 003042 Date: 2020.11.08
Avg.	 Site : 03CH07-HY Condition : AVG_BE_34 3m HF_ANT_00075962 HORIZONTAL Detector : RBW:1000.000kHz VBW:3.000kHz SWT:Auto Project : Peak Mode : 003042 Date: 2020.11.08	 Site : 03CH07-HY Condition : AVG_34 3m HF_ANT_00075962 HORIZONTAL Detector : RBW:1000.000kHz VBW:3.000kHz SWT:Auto Project : Peak Mode : 003042 Date: 2020.11.08

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH09 2452MHz - R	
1	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank



WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH09 2452MHz - L	
1	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00075962 VERTICAL Detector : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Project : Peak Mode : 003042 Date: 2020-11-08	 Site : 03CH07-HY Condition : PEAK_74 3m HF_ANT_00075962 VERTICAL Detector : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Project : Peak Mode : 003042 Date: 2020-11-08
Avg.	 Site : 03CH07-HY Condition : AVG_BE_74 3m HF_ANT_00075962 VERTICAL Detector : RBW:1000.000kHz VBW:3.000kHz SWT:Auto Project : Peak Mode : 003042 Date: 2020-11-08	 Site : 03CH07-HY Condition : AVG_74 3m HF_ANT_00075962 VERTICAL Detector : RBW:1000.000kHz VBW:3.000kHz SWT:Auto Project : Peak Mode : 003042 Date: 2020-11-08

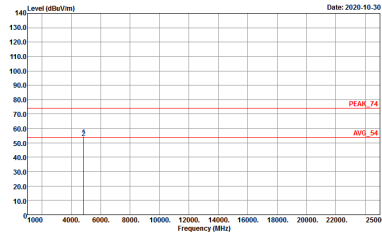
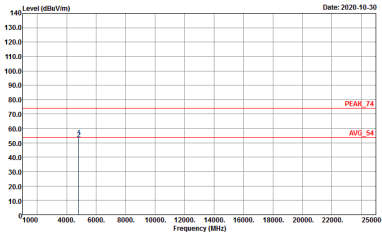


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH09 2452MHz - R	
1	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00075962 VERTICAL Detector : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Project : Peak Mode : 20	Left blank
Avg.	 Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANT_00075962 VERTICAL Detector : RBW:1000.000kHz VBW:3.000kHz SWT:Auto Project : Peak Mode : 20	Left blank



2.4GHz 2400~2483.5MHz

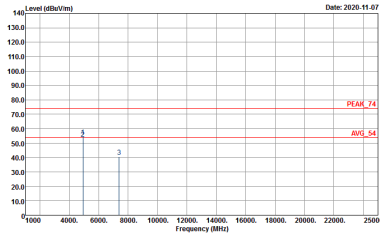
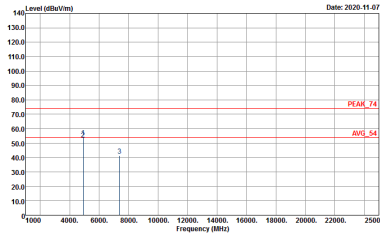
WIFI 802.11b (Harmonic @ 3m)

WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11b CH01 2412MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH07-4H Condition : PEAK_74 3m HF_ANT_00075962 HORIZONTAL Detector : Peak Project : 003042 Mode : 9	 Site : 03CH07-4H Condition : PEAK_74 3m HF_ANT_00075962 VERTICAL Detector : Peak Project : 003042 Mode : 9



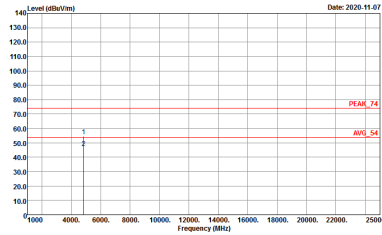
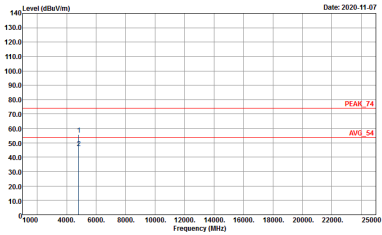
WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11b CH06 2437MHz	
1	Horizontal	Vertical
Peak Avg.	Level (dBuV/m) Date: 2020-11-07 Site : 03CH07-HY Condition : PEAK_74 3m HF_ANT_00075962 HORIZONTAL Detector : Peak Project : 003042 Mode : 10	Level (dBuV/m) Date: 2020-11-07 Site : 03CH07-HY Condition : PEAK_74 3m HF_ANT_00075962 VERTICAL Detector : Peak Project : 003042 Mode : 10



WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11b CH11 2462MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH07-HY Condition : PEAK_74 3m HF_ANT_00075962 HORIZONTAL Detector : Peak Project : 003042 Mode : 11	 Site : 03CH07-HY Condition : PEAK_74 3m HF_ANT_00075962 VERTICAL Detector : Peak Project : 003042 Mode : 11



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 : 03CH07-4H Condition : PEAK_74 3m HF_ANT_00075962 HORIZONTAL Detector : Peak Project : 003042 Mode : 12	 Site : 03CH07-4H Condition : PEAK_74 3m HF_ANT_00075962 VERTICAL Detector : Peak Project : 003042 Mode : 12



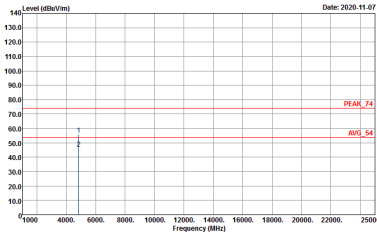
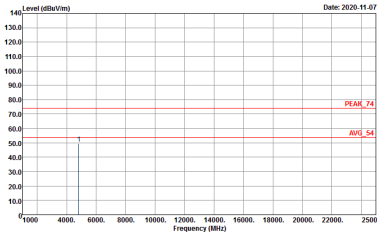
WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11g CH06 2437MHz	
1	Horizontal	Vertical
Peak Avg.	Level (dBuV/m) Date: 2020-11-07 Site : 03CH07-HY Condition : PEAK_74 3m HF_ANT_00075962 HORIZONTAL Detector : Peak Project : 003042 Mode : 13	Level (dBuV/m) Date: 2020-11-07 Site : 03CH07-HY Condition : PEAK_74 3m HF_ANT_00075962 VERTICAL Detector : Peak Project : 003042 Mode : 13



WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11g CH11 2462MHz	
1	Horizontal	Vertical
Peak Avg.	Level (dBuV/m) Date: 2020-11-07 Site : 03CH07-HY Condition : PEAK_74 3m HF_ANT_00075962 HORIZONTAL Detector : Peak Project : 003042 Mode : 14	Level (dBuV/m) Date: 2020-11-07 Site : 03CH07-HY Condition : PEAK_74 3m HF_ANT_00075962 VERTICAL Detector : Peak Project : 003042 Mode : 14



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 : 03CH07-4H Condition : PEAK_74 3m HF_ANT_00075962 HORIZONTAL Detector : Peak Project : 003042 Mode : 15	 Site : 03CH07-4H Condition : PEAK_74 3m HF_ANT_00075962 VERTICAL Detector : Peak Project : 003042 Mode : 15



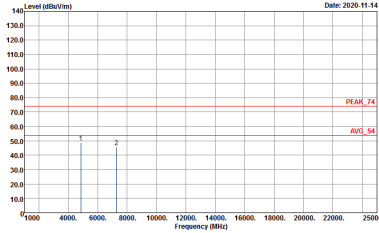
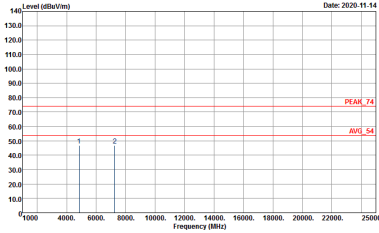
WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11n HT20 CH06 2437MHz	
1	Horizontal	Vertical
Peak Avg.	Level (dBuV/m) Date: 2020-11-07 Site : 03CH07-HY Condition : PEAK_74 3m HF_ANT_00075962 HORIZONTAL Detector : Peak Project : 003042 Mode : 16	Level (dBuV/m) Date: 2020-11-07 Site : 03CH07-HY Condition : PEAK_74 3m HF_ANT_00075962 VERTICAL Detector : Peak Project : 003042 Mode : 16



WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11n HT20 CH11 2462MHz	
1	Horizontal	Vertical
Peak Avg.	Level (dBuV/m) Date: 2020-11-14 Site : 03CH07-4Y Condition : PEAK_74 3m HF_ANT_00075962 HORIZONTAL Detector : Peak Project : 003042 Mode : 17	Level (dBuV/m) Date: 2020-11-14 Site : 03CH07-4Y Condition : PEAK_74 3m HF_ANT_00075962 VERTICAL Detector : Peak Project : 003042 Mode : 17



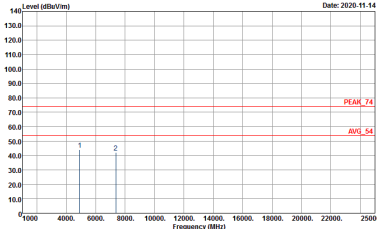
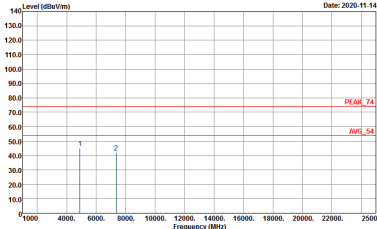
2.4GHz 2400~2483.5MHz
WIFI 802.11n HT40 (Harmonic @ 3m)

WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11n HT40 CH03 2422MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH07-4H Condition : PEAK_74 3m HF_ANT_00075962 HORIZONTAL Detector : Peak Project : 003042 Mode : 18	 Site : 03CH07-4H Condition : PEAK_74 3m HF_ANT_00075962 VERTICAL Detector : Peak Project : 003042 Mode : 18



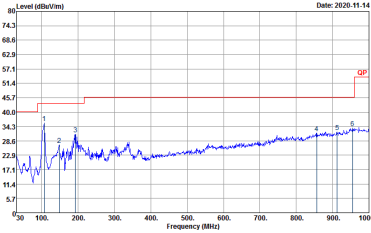
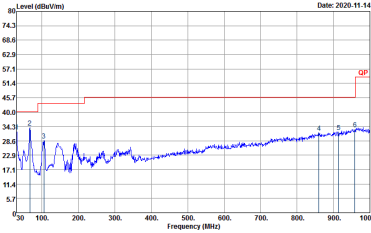
WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11n HT40 CH06 2437MHz	
1	Horizontal	Vertical
Peak Avg.	Site : 03CH07-HY Condition : PEAK_74 3m HF_ANT_00075962 HORIZONTAL Detector : Peak Project : 003042 Mode : 19	Site : 03CH07-HY Condition : PEAK_74 3m HF_ANT_00075962 VERTICAL Detector : Peak Project : 003042 Mode : 19



WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11n HT40 CH09 2452MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH07-HY Condition : PEAK_74 3m HF_ANT_00075962 HORIZONTAL Detector : Peak Project : 003042 Mode : 20	 Site : 03CH07-HY Condition : PEAK_74 3m HF_ANT_00075962 VERTICAL Detector : Peak Project : 003042 Mode : 20



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

WIFI	2.4GHz 2400~2483.5MHz	
ANT	802.11b LF	
1	Horizontal	Vertical
QP / Peak	 Site : 03CH07-HY Condition : QP 3m LF-ANT-35419(6) HORIZONTAL Detector : Peak Project : 003042 Mode : 21	 Site : 03CH07-HY Condition : QP 3m LF-ANT-35419(6) VERTICAL Detector : Peak Project : 003042 Mode : 21

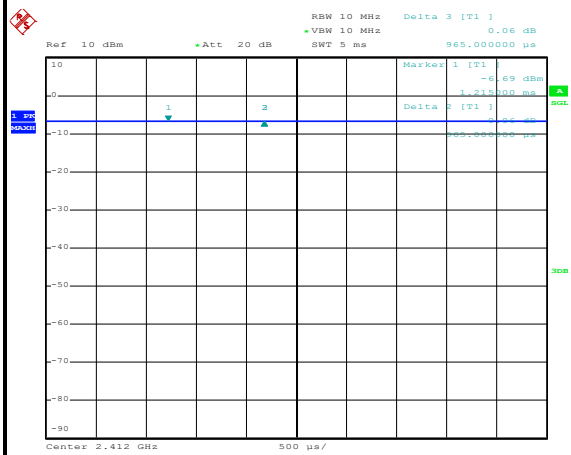


Appendix E. Duty Cycle Plots

Band	Duty Cycle(%)	T(us)	1/T(kHz)	VBW Setting	Duty Factor(dB)
802.11b	100.00	-	-	10Hz	0.00
802.11g	96.86	1390	0.72	1kHz	0.14
2.4GHz 802.11n HT20	96.28	1295	0.77	1kHz	0.16
2.4GHz 802.11n HT40	93.48	645	1.55	3kHz	0.29

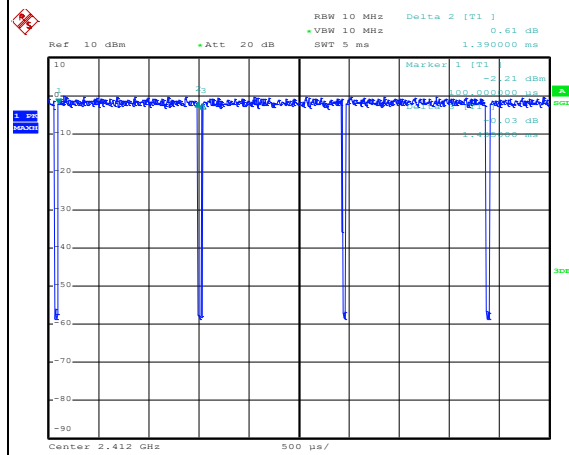


802.11b



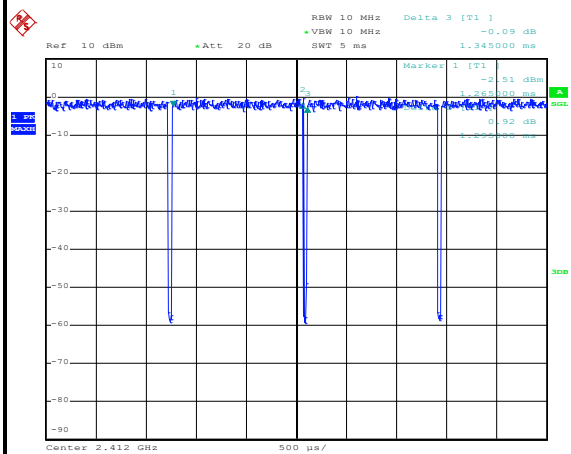
Date: 16.NOV.2020 14:35:35

802.11g



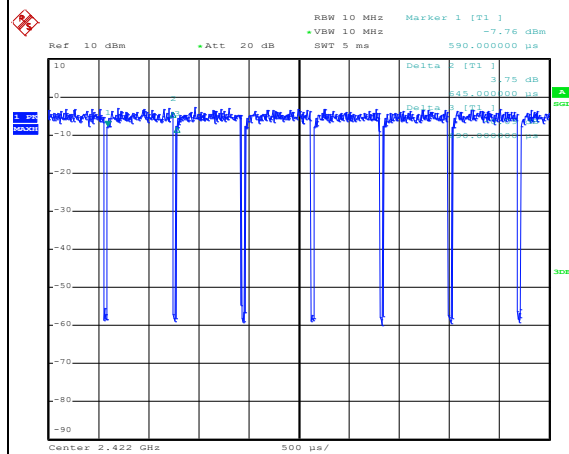
Date: 16.NOV.2020 15:01:55

802.11n HT20



Date: 16.NOV.2020 15:20:49

802.11n HT40



Date: 16.NOV.2020 16:14:02