



FCC RADIO TEST REPORT

FCC ID : 2AOAJ-2679
Equipment : Electronic Display Device
Model Name : S8IN4N
Applicant : 360 Engine Burns LLC
400 West Capitol Avenue, Suite 1700 Little Rock,
Arkansas, 72201
Standard : FCC Part 15 Subpart C §15.247

The testing was completed on Apr. 09, 2019. We, SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory, would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

The report must not be used by the client to claim product certification, approval, or endorsement by TAF or any agency of government.

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

Approved by: Jones Tsai

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



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History of this test report

Report No.	Version	Description	Issued Date
FR8O0112-01C	01	Initial issue of report	Apr. 09, 2019

Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)
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
3.6	15.207	AC Conducted Emission	Pass
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: Nancy Yang

1 General Description

1.1 Product Feature of Equipment Under Test

Product Feature	
Equipment	Electronic Display Device
Model Name	S8IN4N
FCC ID	2AOAJ-2679
EUT supports Radios application	GPRS/EGPRS/WCDMA/HSPA/LTE WLAN 11b/g/n HT20 Bluetooth BR/EDR/LE

1.2 Product Specification of Equipment Under Test

Standards-related Product Specification	
Tx/Rx Channel Frequency Range	2412 MHz ~ 2472 MHz
Maximum (Average) Output Power to antenna	802.11b : 21.80 dBm (0.1514 W) 802.11g : 21.20 dBm (0.1318 W) 802.11n HT20 : 21.90 dBm (0.1549 W)
99% Occupied Bandwidth	802.11b : 14.30 MHz 802.11g : 17.00 MHz 802.11n HT20 : 18.80 MHz
Antenna Type / Gain	Fixed Internal Antenna with gain 0.5 dBi
Type of Modulation	802.11b : DSSS (DBPSK / DQPSK / CCK) 802.11g/n : OFDM (BPSK / QPSK / 16QAM / 64QAM)

1.3 Modification of EUT

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



1.4 Testing Location

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

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

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

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

FCC Designation No.: TW1190 and TW0007

1.5 Applicable Standards

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

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

Remark: All test items were verified and recorded according to the standards and without any deviation during the test.

2 Test Configuration of Equipment Under Test

- a. The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application. Frequency range investigated: conduction emission (150 kHz to 30 MHz), radiation emission (9 kHz to the 10th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower). For radiated measurement, pre-scanned in three orthogonal panels, X, Y, Z. The worst cases (X plane) were recorded in this report.
- b. AC power line Conducted Emission was tested under maximum output power.

2.1 Carrier Frequency and Channel

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
2400-2483.5 MHz	1	2412	8	2447
	2	2417	9	2452
	3	2422	10	2457
	4	2427	11	2462
	5	2432	12	2467
	6	2437	13	2472
	7	2442		

2.2 Test Mode

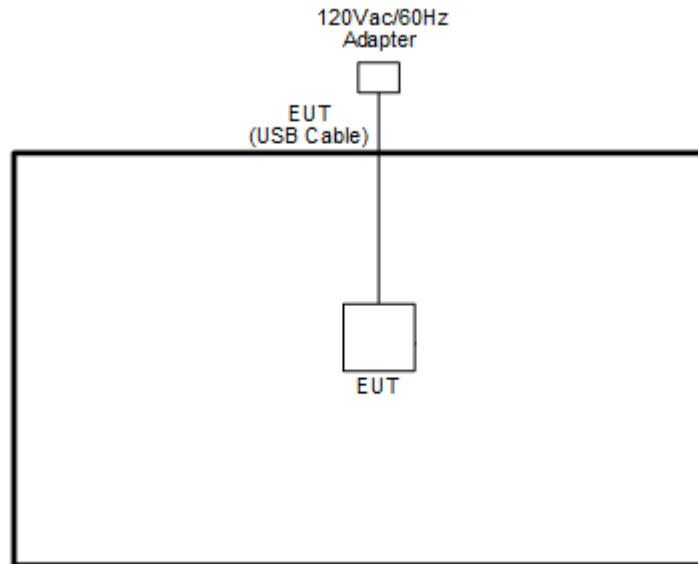
Final test modes are considering the modulation and worse data rates as below table.

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

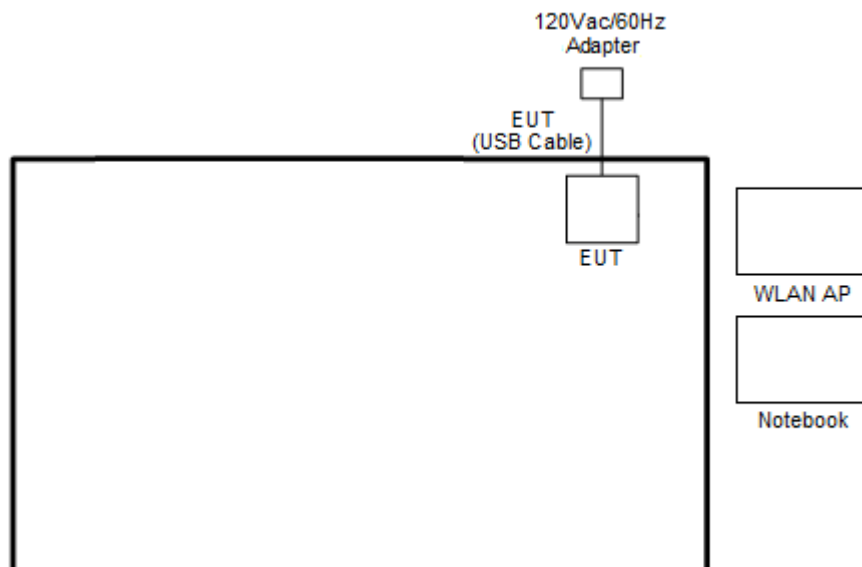
Test Cases	
AC Conducted Emission	Mode 1: WLAN (2.4GHz) Link + USB Cable 4 (Charging from Adapter 4) Mode 2: Bluetooth Link + USB Cable 4 (Charging from Adapter 4)
Remark: - The worst case of conducted emission is mode 2; only the test data of it was reported. - For Radiated Test Cases, the tests were performed with Adapter 1 and USB Cable 1.	

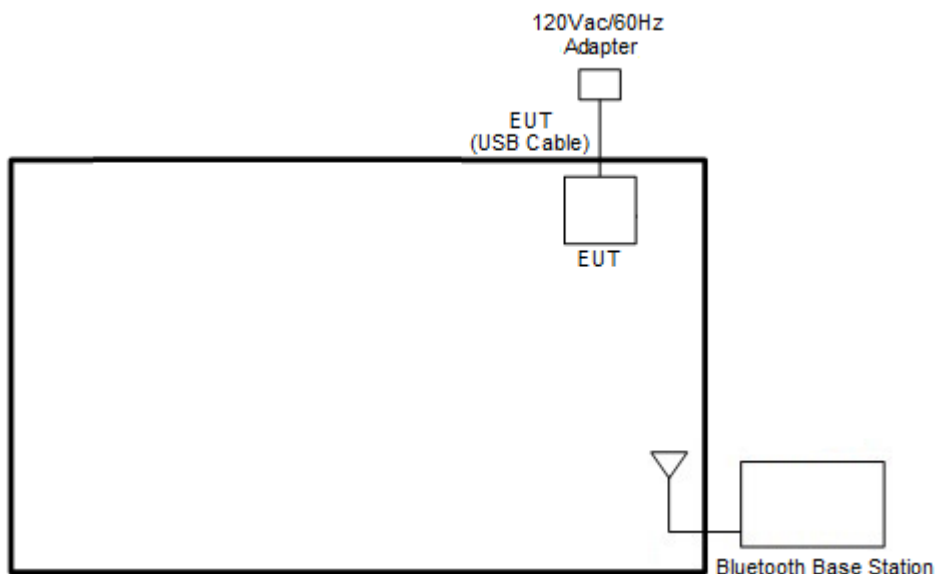
2.3 Connection Diagram of Test System

<WLAN Tx Mode>



<AC Conducted Emission for WLAN Link Mode>



<AC Conducted Emission for Bluetooth Link Mode>

2.4 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model Name	FCC ID	Data Cable	Power Cord
1.	Bluetooth Base Station	R&S	CBT32	N/A	N/A	Unshielded, 1.8 m
2.	WLAN AP	ASUS	RT-AC66U	MSQ-RTAC66U	N/A	Unshielded, 1.8 m
3.	Notebook	DELL	Latitude E6320	FCC DoC/ Contains FCC ID: QDS-BRCM1054	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
4.	Adapter 1	N/A	N/A	N/A	N/A	N/A
5.	Adapter 4	N/A	N/A	N/A	N/A	N/A

2.5 EUT Operation Test Setup

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



2.6 Measurement Results Explanation Example

For all conducted test items:

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

Example:

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

Offset = RF cable loss + attenuator factor.

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

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

3 Test Result

3.1 6dB and 99% Bandwidth Measurement

3.1.1 Limit of 6dB and 99% Bandwidth

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

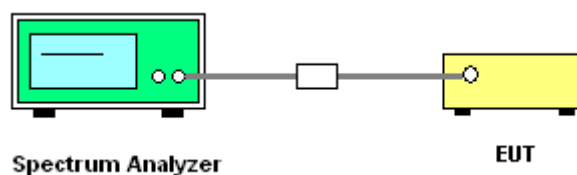
3.1.2 Measuring Instruments

See list of measuring equipment of this test report.

3.1.3 Test Procedures

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

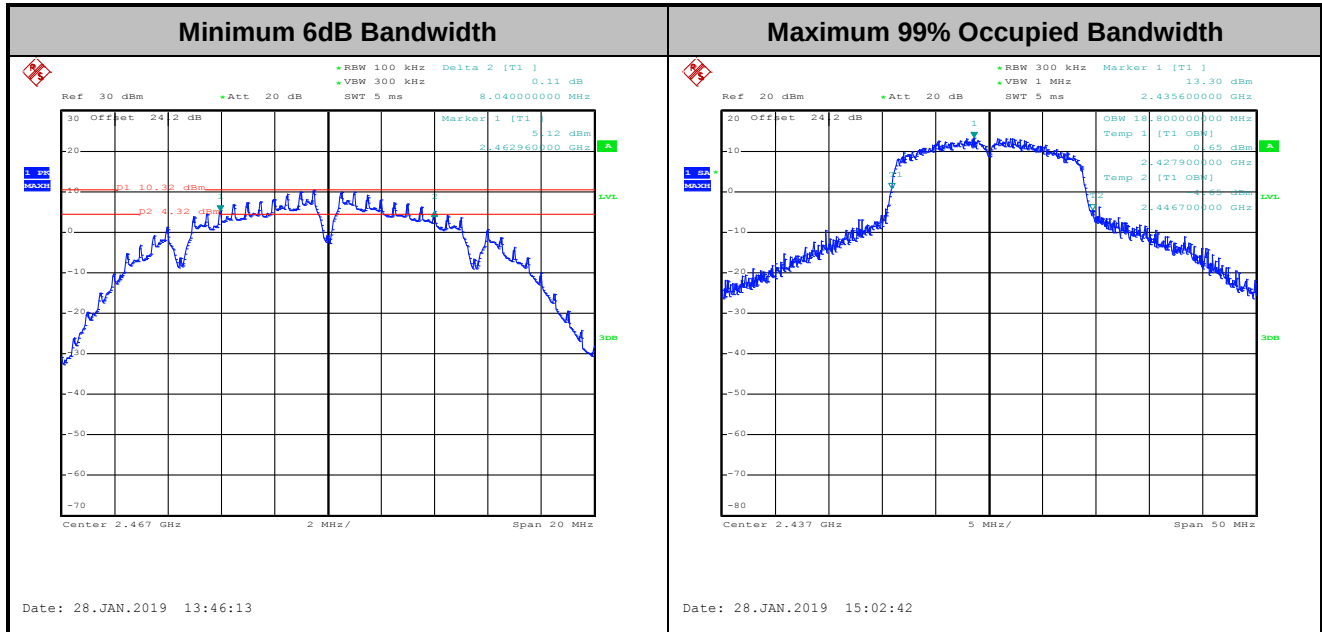
3.1.4 Test Setup





3.1.5 Test Result of 6dB and 99% Occupied Bandwidth

Please refer to Appendix A.



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

3.2 Output Power Measurement

3.2.1 Limit of Output Power

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

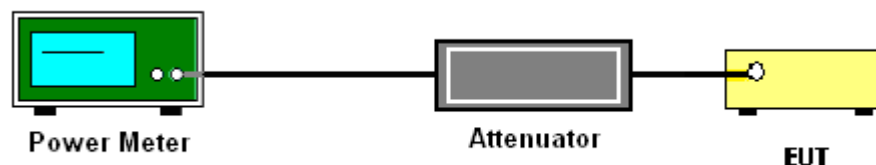
3.2.2 Measuring Instruments

See list of measuring equipment of this test report.

3.2.3 Test Procedures

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

3.2.4 Test Setup



3.2.5 Test Result of Average output Power

Please refer to Appendix A.

3.3 Power Spectral Density Measurement

3.3.1 Limit of Power Spectral Density

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

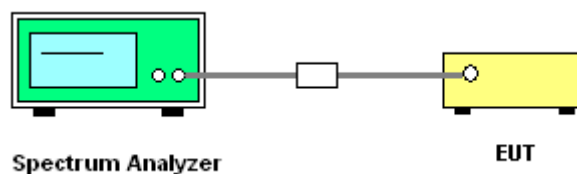
3.3.2 Measuring Instruments

See list of measuring equipment of this test report.

3.3.3 Test Procedures

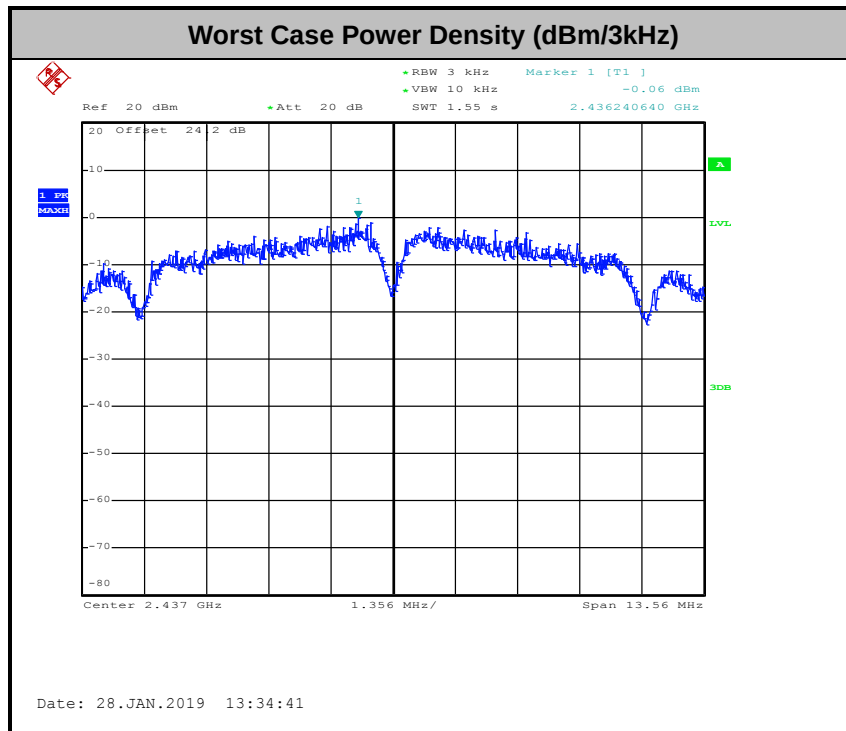
1. The testing follows the ANSI C63.10 Section 11.10.2 Method PKPSD.
2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the EUT transmit continuously.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

3.3.4 Test Setup



3.3.5 Test Result of Power Spectral Density

Please refer to Appendix A.



3.4 Conducted Band Edges and Spurious Emission Measurement

3.4.1 Limit of Conducted Band Edges and Spurious Emission Measurement

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

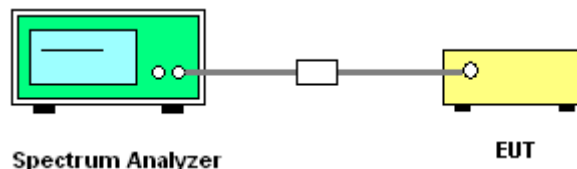
3.4.2 Measuring Instruments

See list of measuring equipment of this test report.

3.4.3 Test Procedures

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

3.4.4 Test Setup

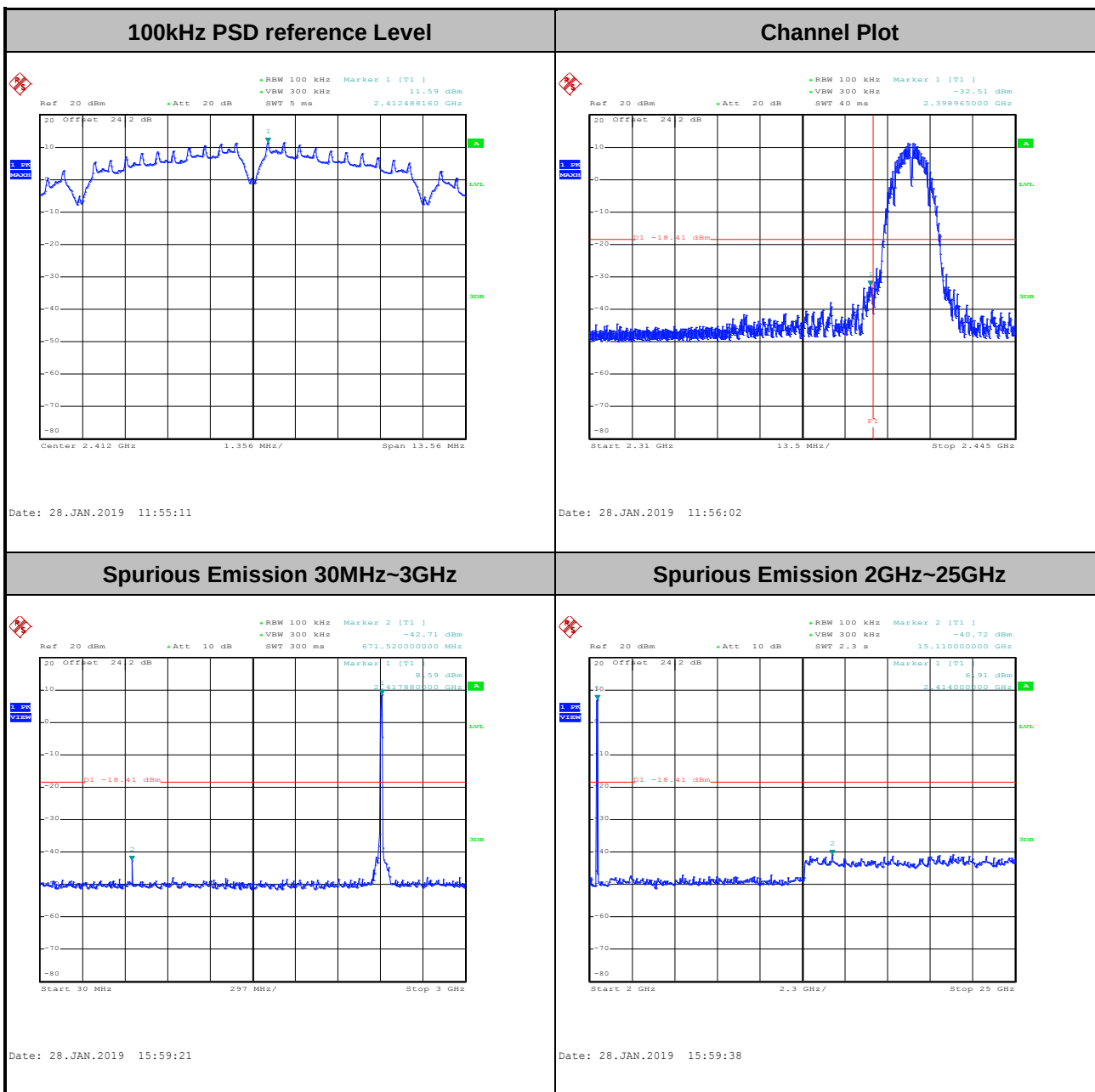




3.4.5 Test Result of Conducted Band Edges and Spurious Emission

Test Engineer :	Luffy Lin and Richard Qiu	Temperature :	21~25°C
		Relative Humidity :	51~54%

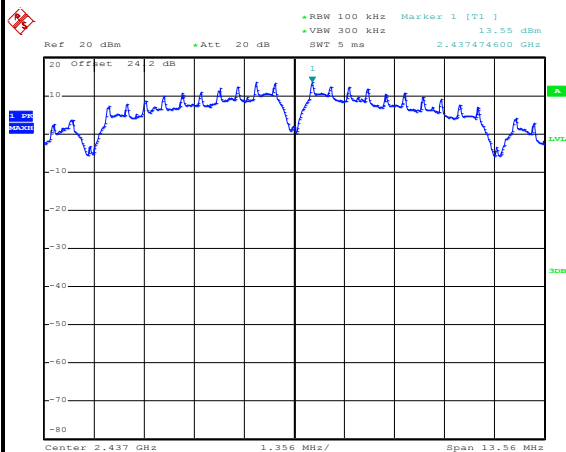
Test Mode :	802.11b	Test Channel :	01
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Test Mode :	802.11b	Test Channel :	06
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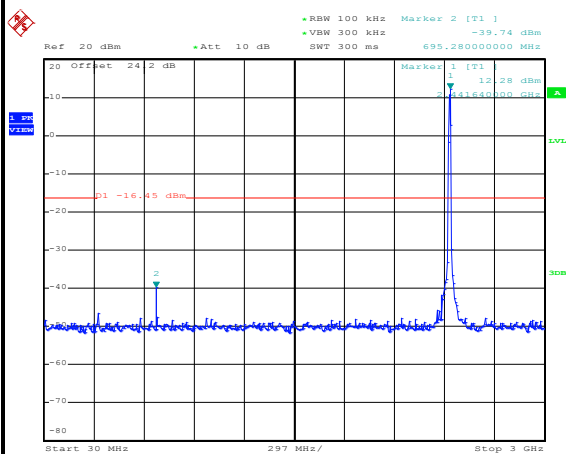
100kHz PSD reference Level



Date: 28.JAN.2019 13:34:58

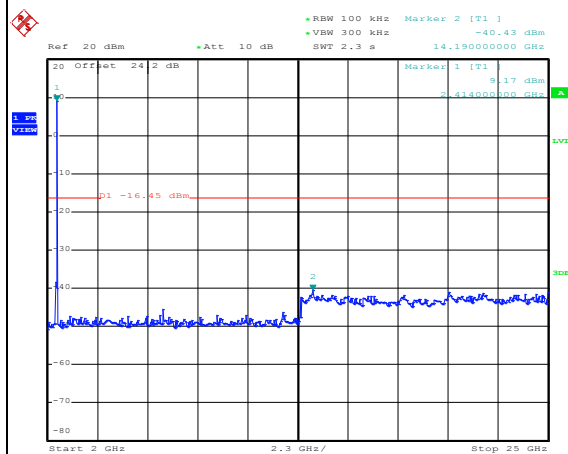
Channel Plot

Spurious Emission 30MHz~3GHz



Date: 28.JAN.2019 13:35:16

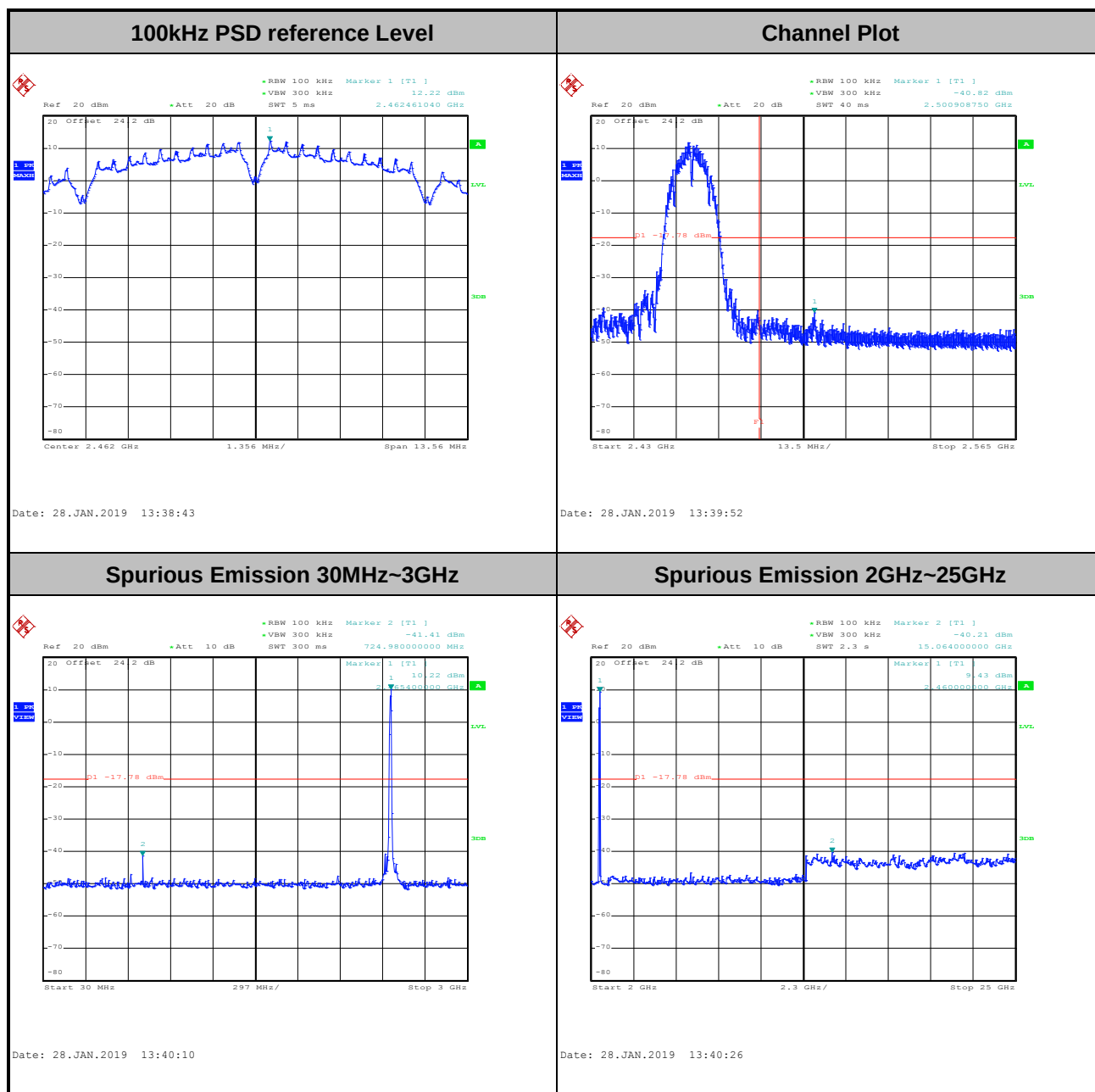
Spurious Emission 2GHz~25GHz



Date: 28.JAN.2019 13:35:32



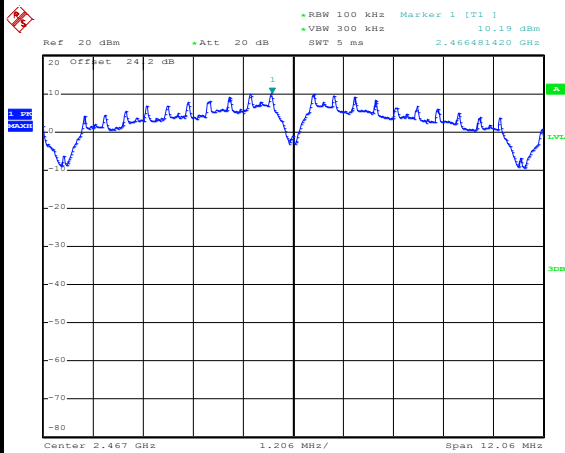
Test Mode :	802.11b	Test Channel :	11
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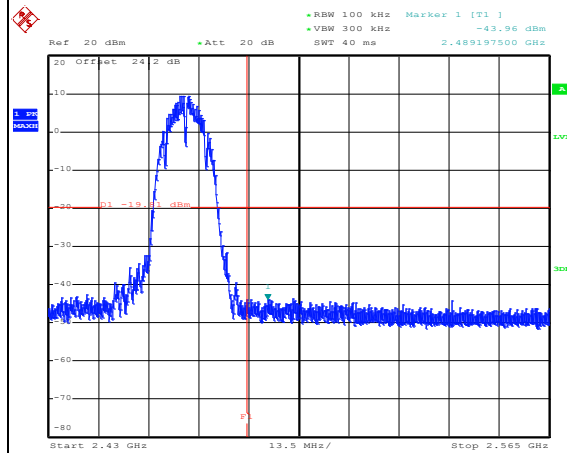
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100kHz PSD reference Level



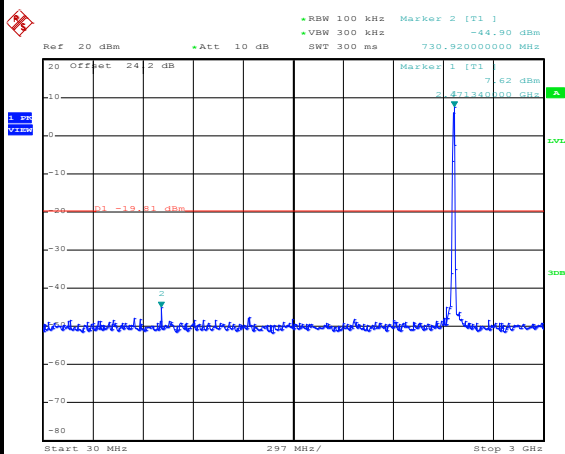
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Channel Plot



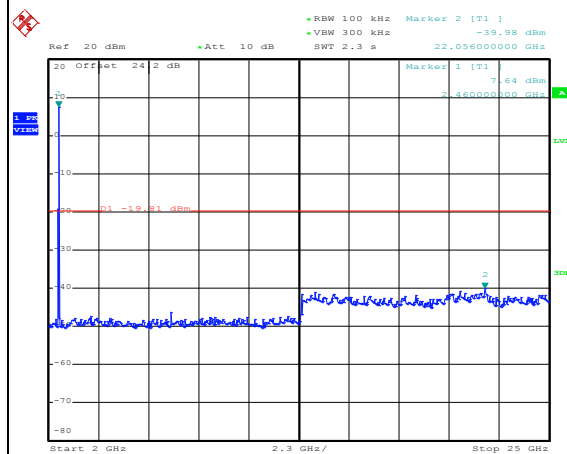
Date: 28.JAN.2019 13:47:06

Spurious Emission 30MHz~3GHz



Date: 28.JAN.2019 13:47:22

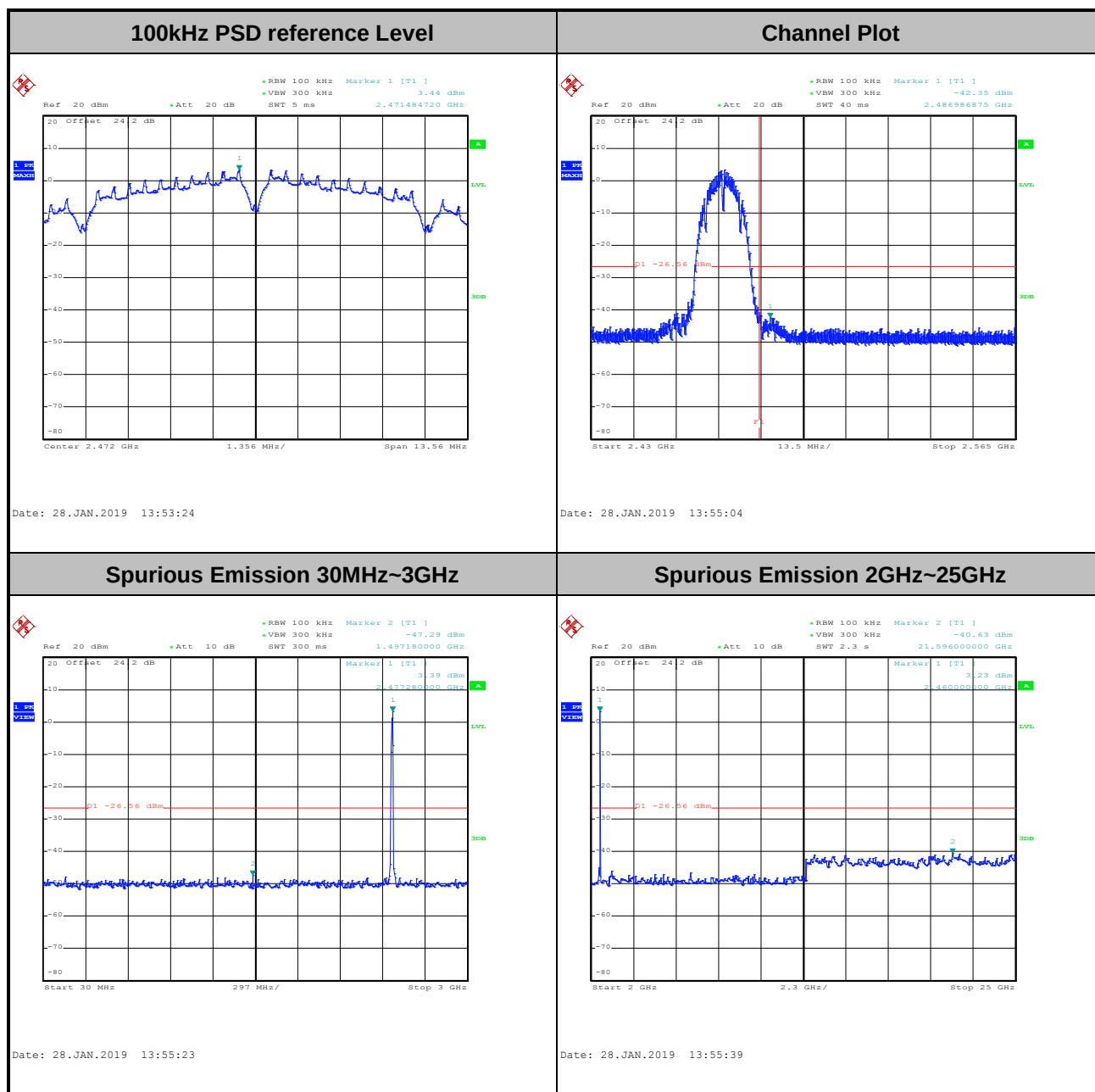
Spurious Emission 2GHz~25GHz



Date: 28.JAN.2019 13:47:37



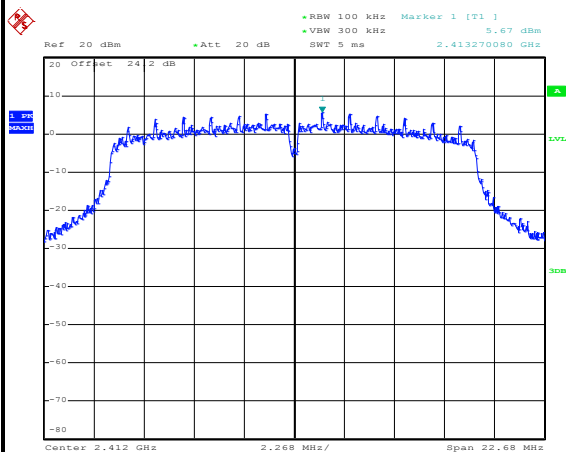
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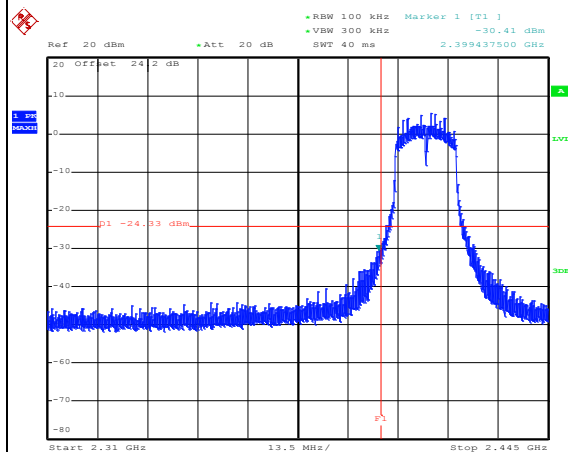
Test Mode :	802.11g	Test Channel :	01
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100kHz PSD reference Level



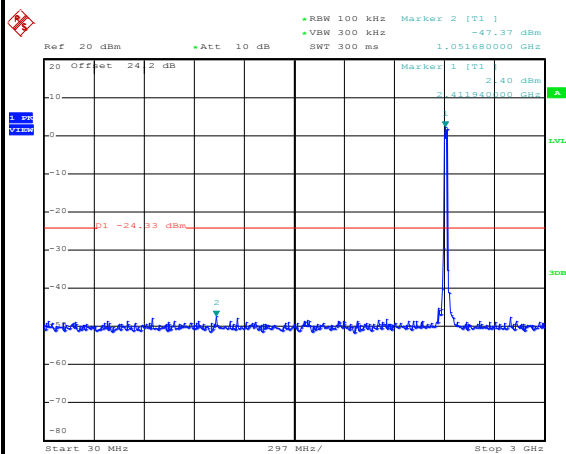
Date: 28.JAN.2019 14:17:35

Channel Plot



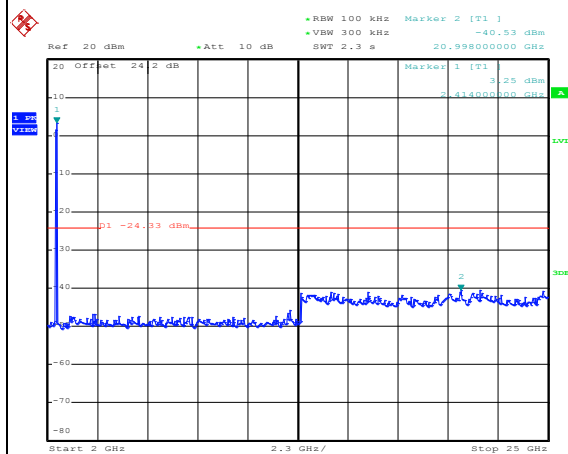
Date: 28.JAN.2019 14:17:54

Spurious Emission 30MHz~3GHz



Date: 28.JAN.2019 14:18:23

Spurious Emission 2GHz~25GHz

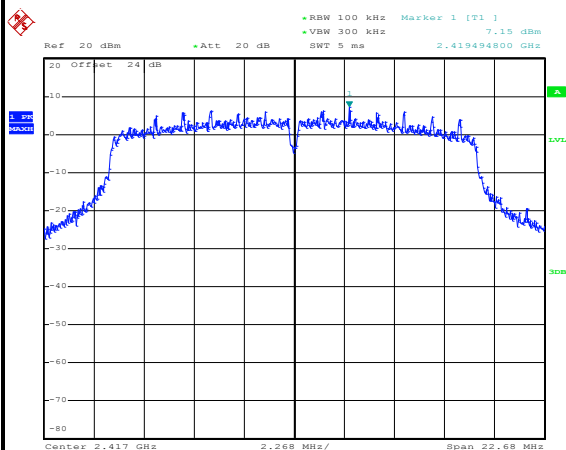


Date: 28.JAN.2019 14:18:41



Test Mode :	802.11g	Test Channel :	02
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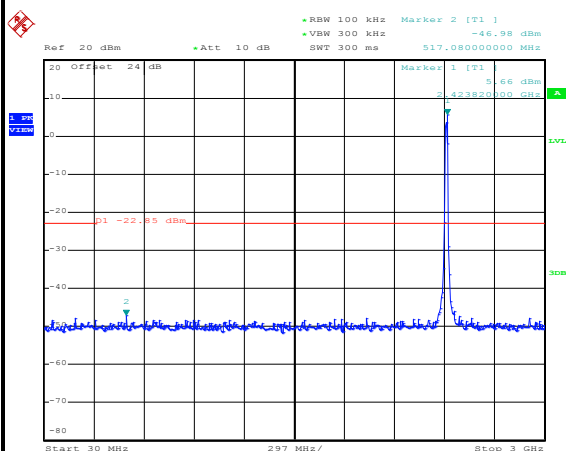
100kHz PSD reference Level



Date: 8.APR.2019 15:40:22

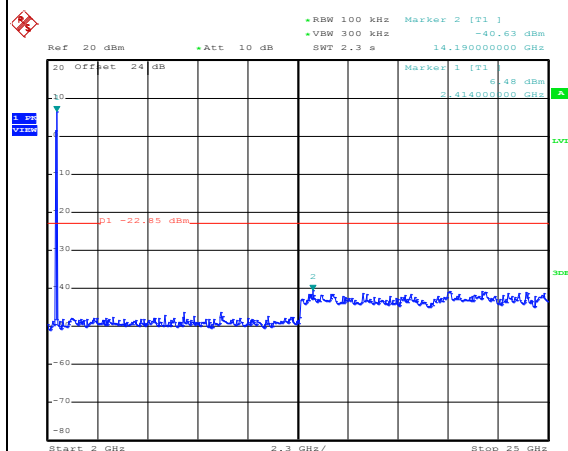
Channel Plot

Spurious Emission 30MHz~3GHz



Date: 8.APR.2019 15:40:55

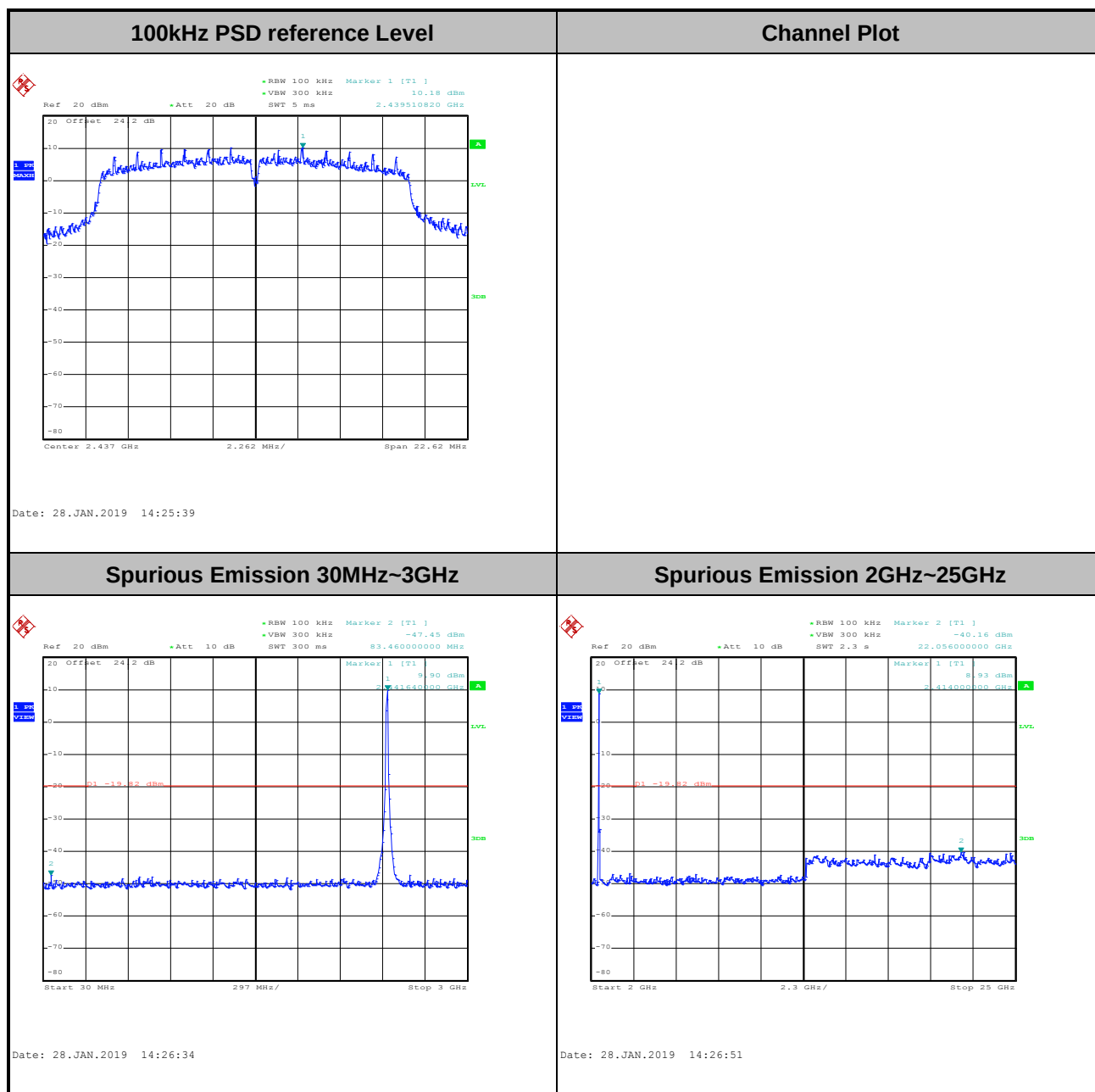
Spurious Emission 2GHz~25GHz



Date: 8.APR.2019 15:41:10



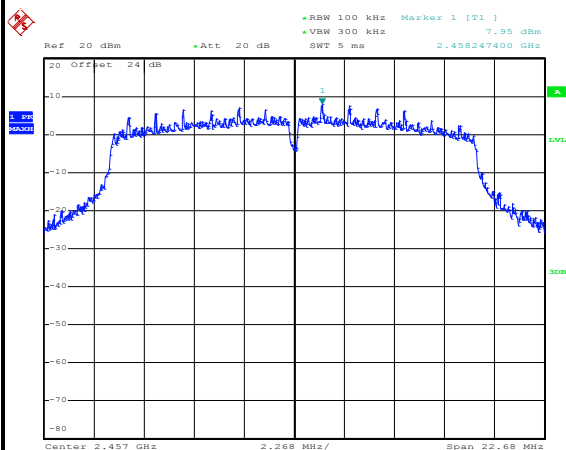
Test Mode :	802.11g	Test Channel :	06
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Test Mode :	802.11g	Test Channel :	10
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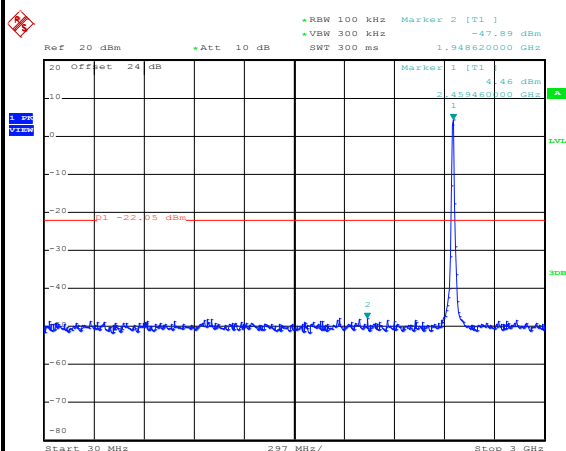
100kHz PSD reference Level



Date: 8.APR.2019 15:48:50

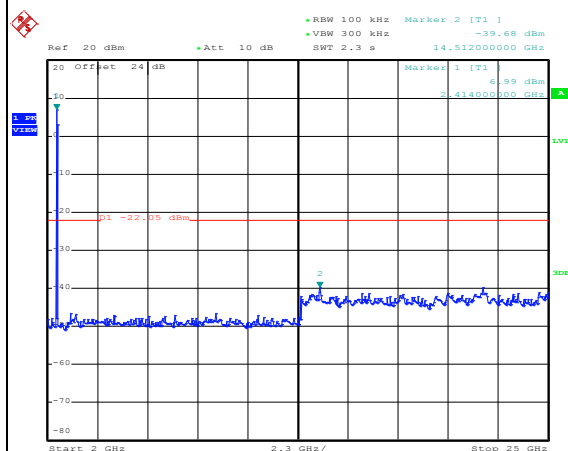
Channel Plot

Spurious Emission 30MHz~3GHz



Date: 8.APR.2019 15:49:28

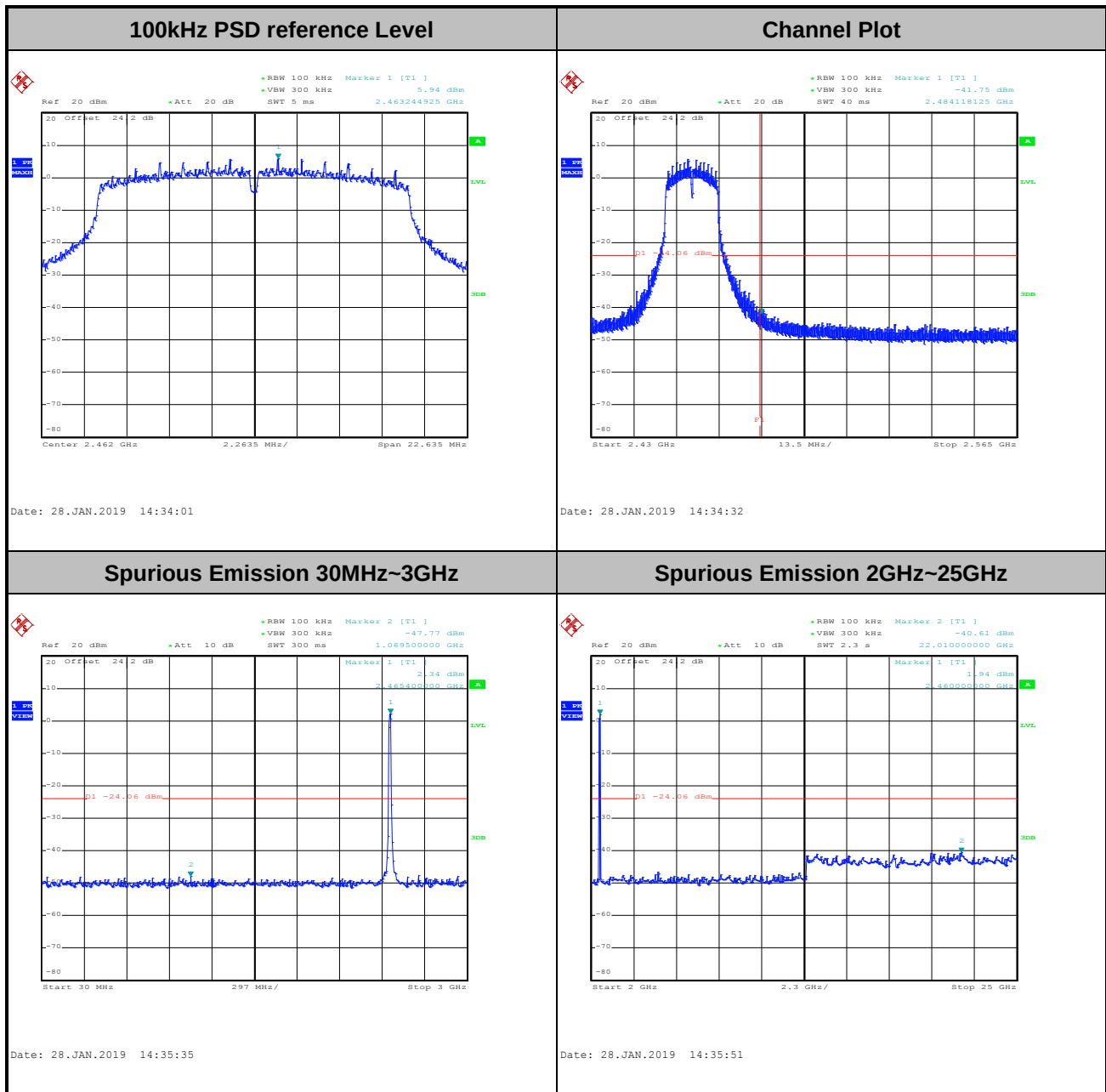
Spurious Emission 2GHz~25GHz

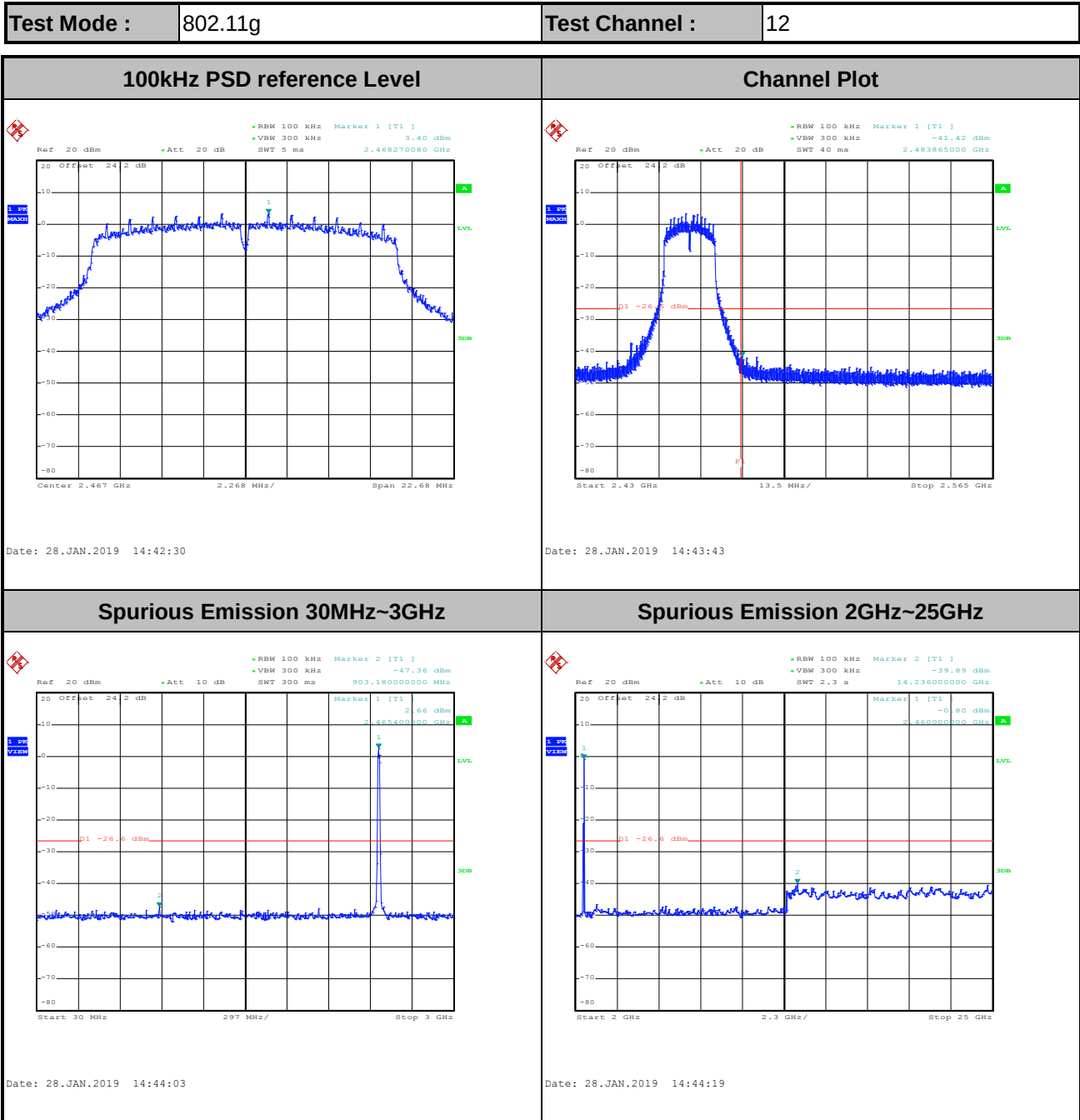


Date: 8.APR.2019 15:49:44



Test Mode :	802.11g	Test Channel :	11
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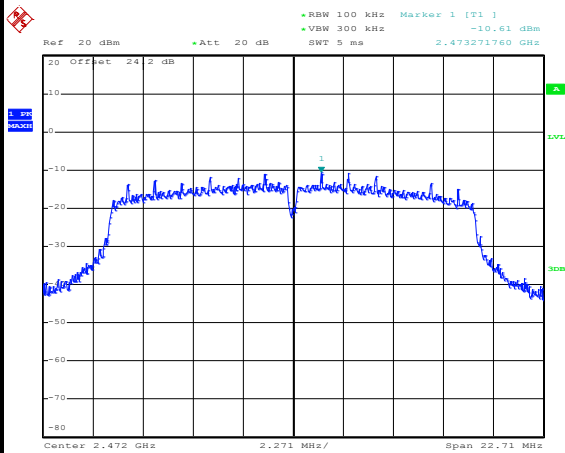






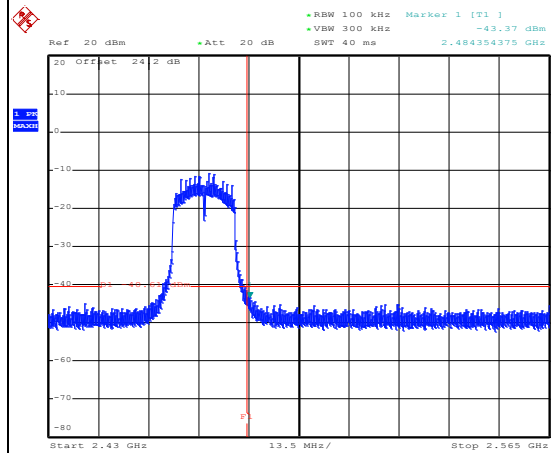
Test Mode :	802.11g	Test Channel :	13
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100kHz PSD reference Level



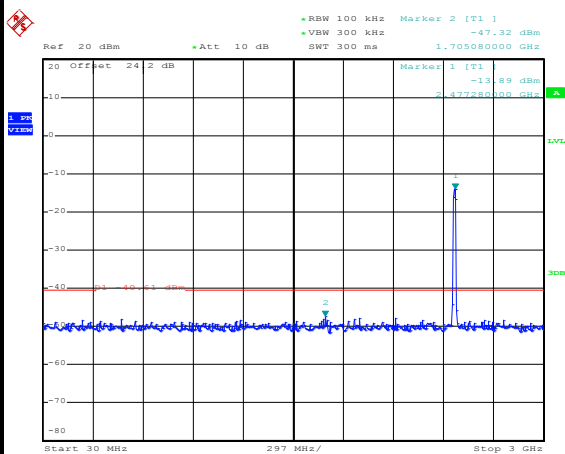
Date: 28.JAN.2019 14:51:41

Channel Plot



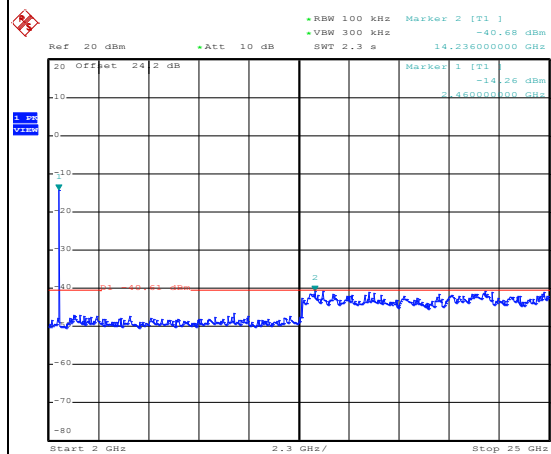
Date: 28.JAN.2019 14:52:00

Spurious Emission 30MHz~3GHz



Date: 28.JAN.2019 14:52:20

Spurious Emission 2GHz~25GHz

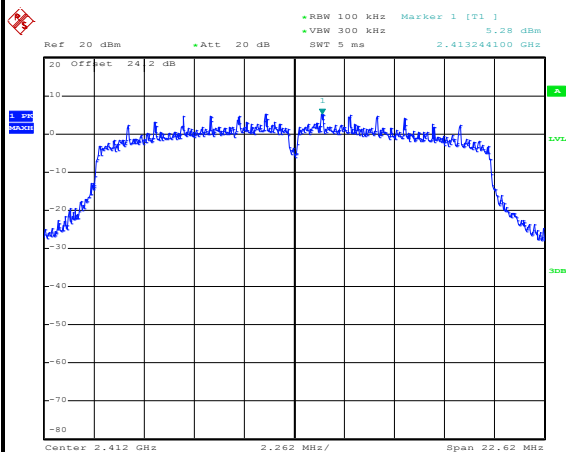


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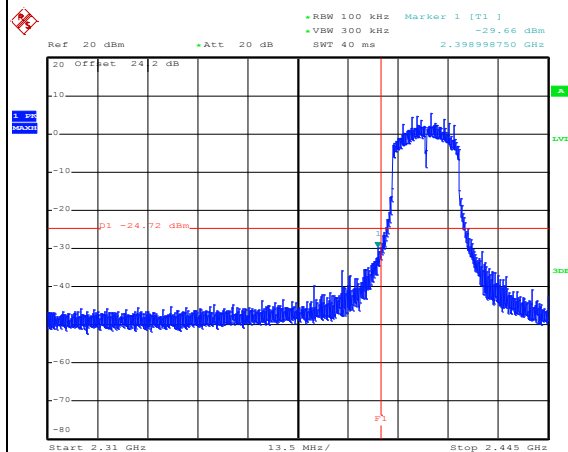
Test Mode :	802.11n HT20	Test Channel :	01
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100kHz PSD reference Level



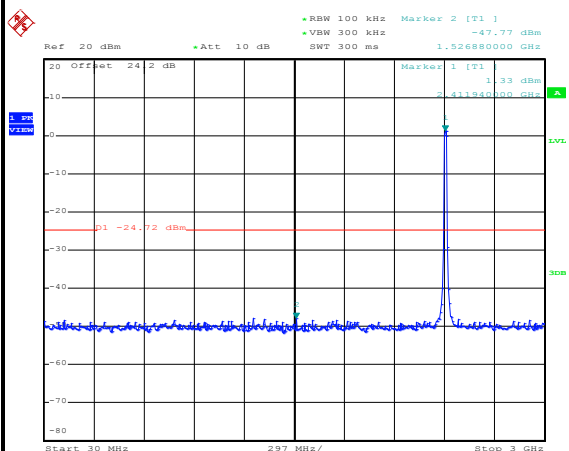
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Channel Plot



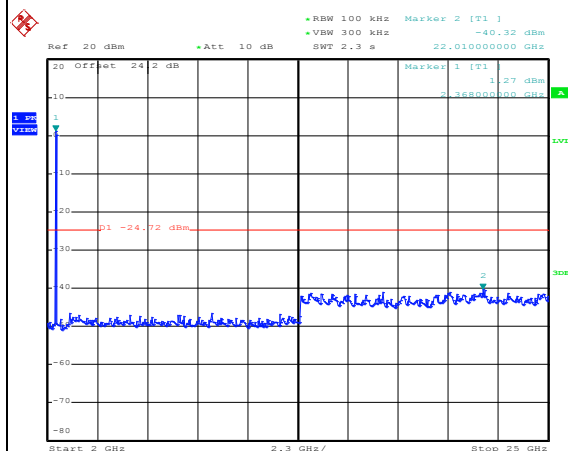
Date: 28.JAN.2019 14:57:42

Spurious Emission 30MHz~3GHz



Date: 28.JAN.2019 14:58:09

Spurious Emission 2GHz~25GHz

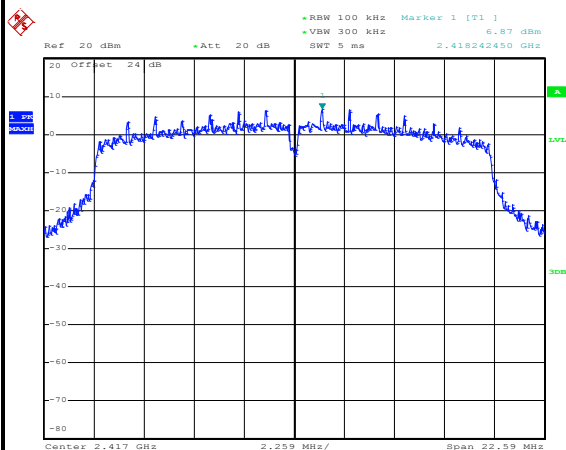


Date: 28.JAN.2019 14:58:25



Test Mode :	802.11n HT20	Test Channel :	02
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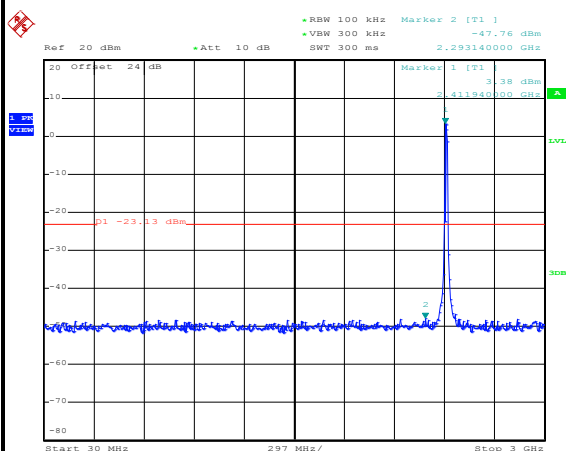
100kHz PSD reference Level



Date: 8.APR.2019 15:56:22

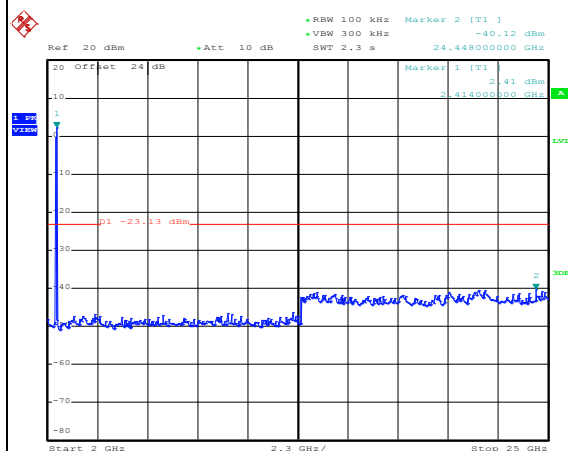
Channel Plot

Spurious Emission 30MHz~3GHz



Date: 9.APR.2019 12:03:52

Spurious Emission 2GHz~25GHz

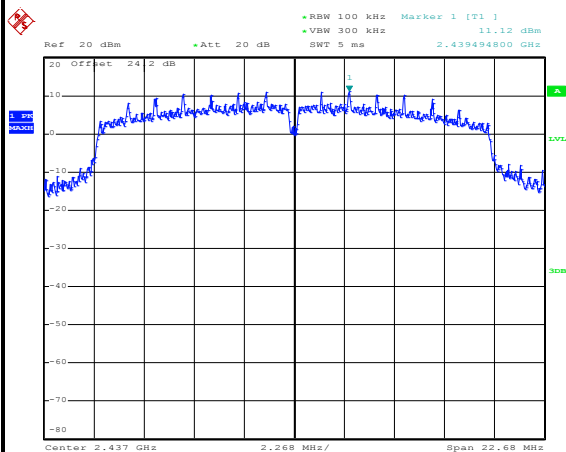


Date: 9.APR.2019 12:04:10



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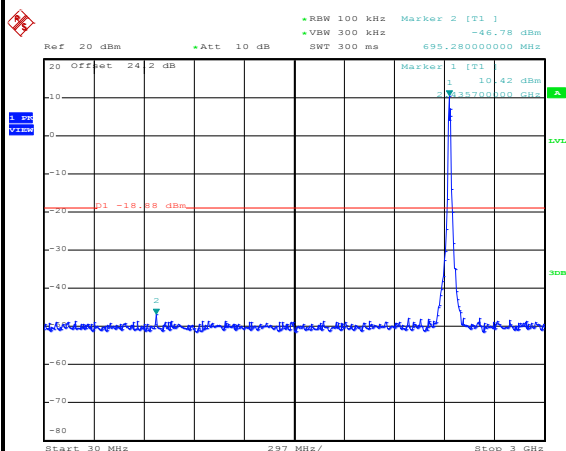
100kHz PSD reference Level



Date: 28.JAN.2019 15:01:34

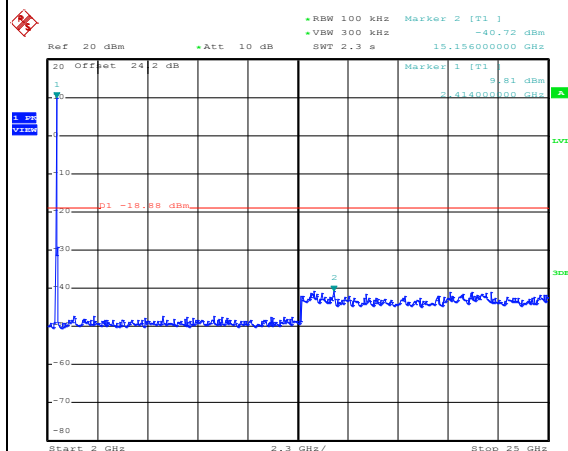
Channel Plot

Spurious Emission 30MHz~3GHz



Date: 28.JAN.2019 15:01:59

Spurious Emission 2GHz~25GHz

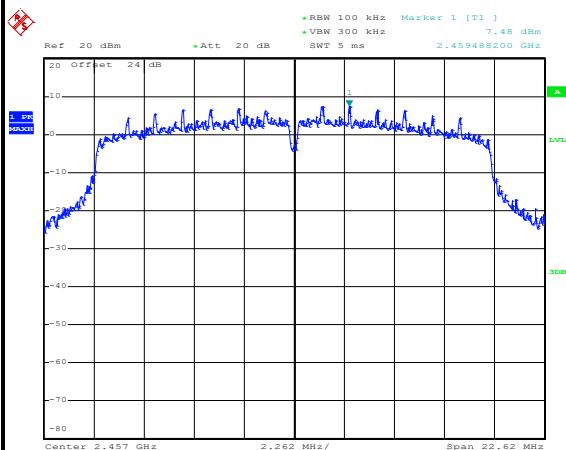


Date: 28.JAN.2019 15:02:16



Test Mode :	802.11n HT20	Test Channel :	10
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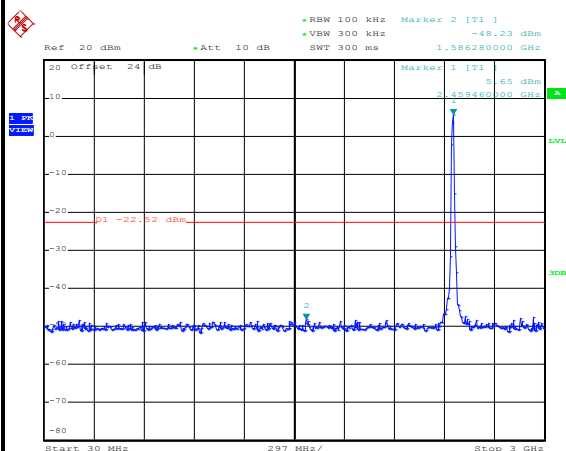
100kHz PSD reference Level



Date: 8.APR.2019 16:02:04

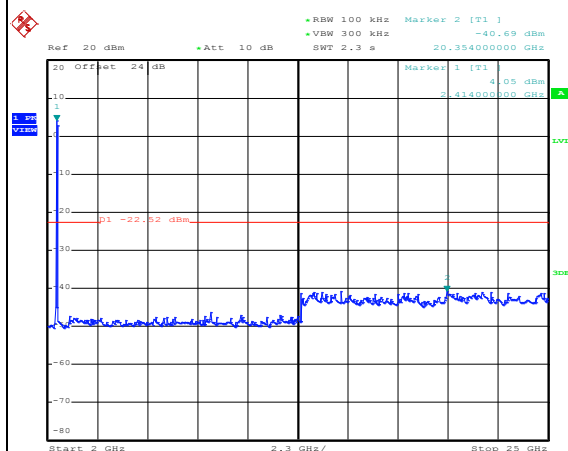
Channel Plot

Spurious Emission 30MHz~3GHz



Date: 9.APR.2019 14:33:24

Spurious Emission 2GHz~25GHz

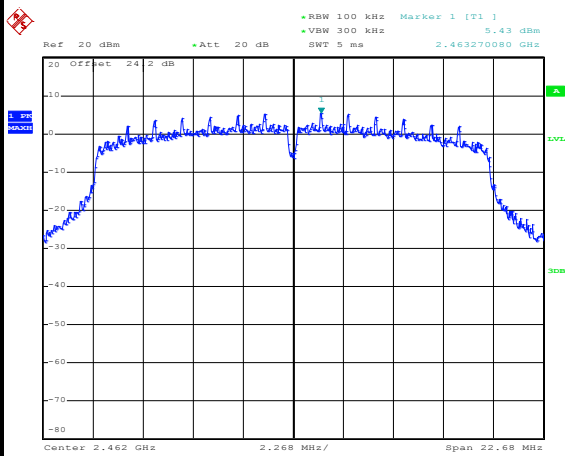


Date: 9.APR.2019 14:33:39



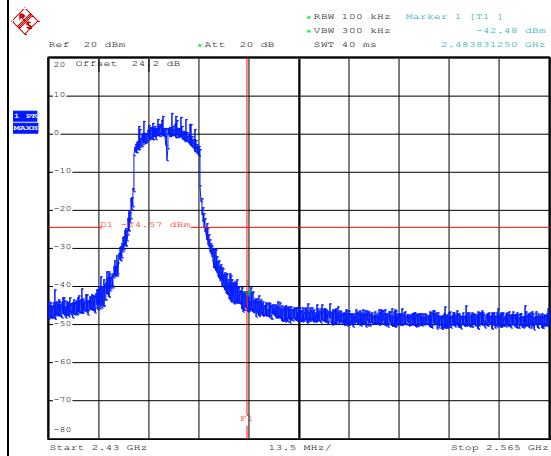
Test Mode :	802.11n HT20	Test Channel :	11
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100kHz PSD reference Level



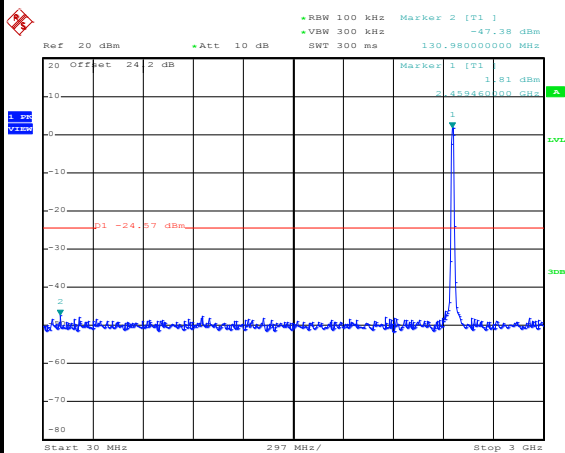
Date: 28.JAN.2019 15:08:32

Channel Plot



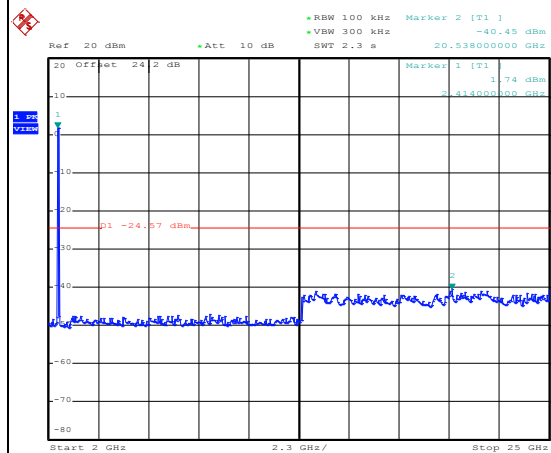
Date: 28.JAN.2019 15:09:02

Spurious Emission 30MHz~3GHz

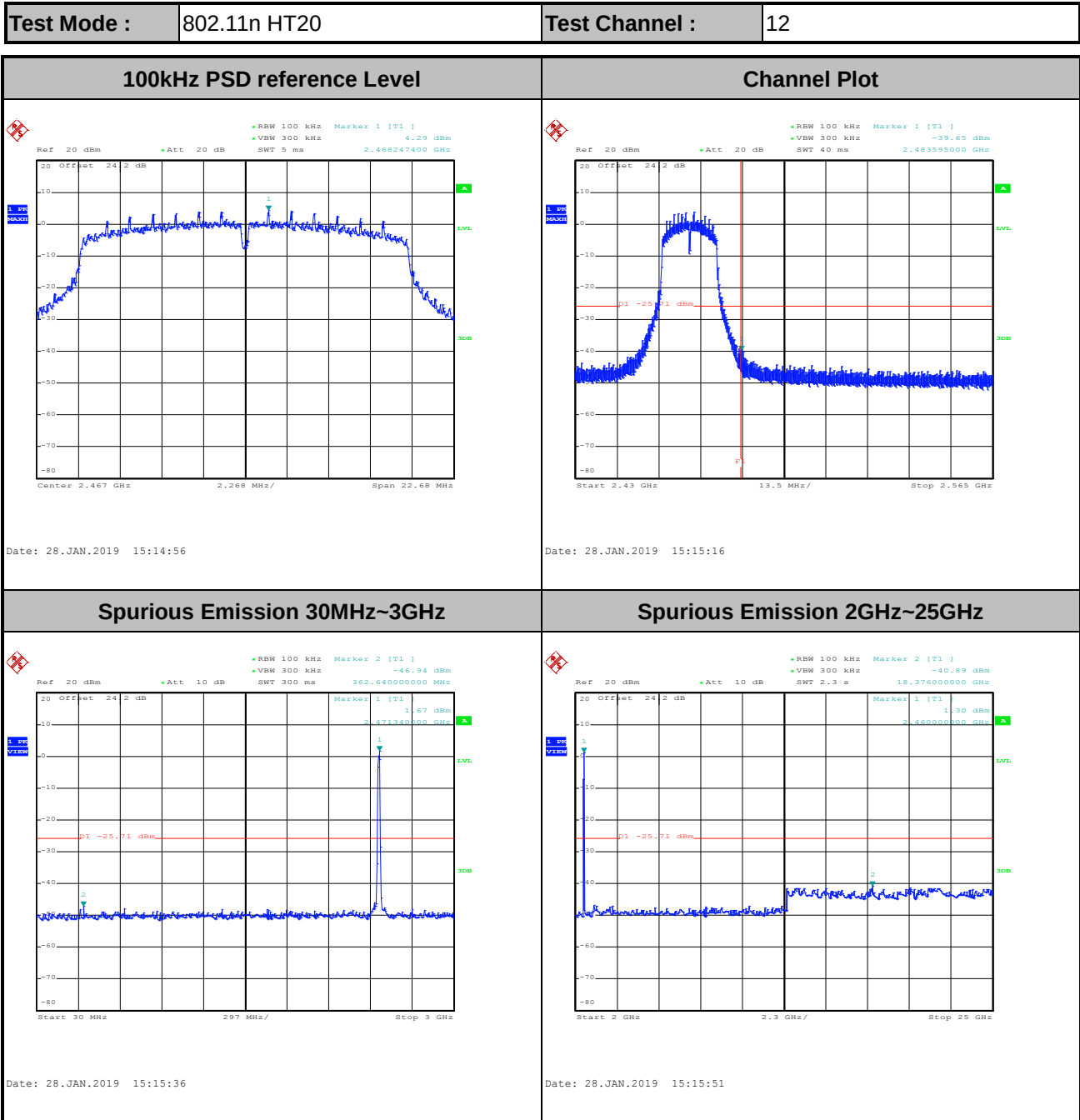


Date: 28.JAN.2019 15:09:23

Spurious Emission 2GHz~25GHz



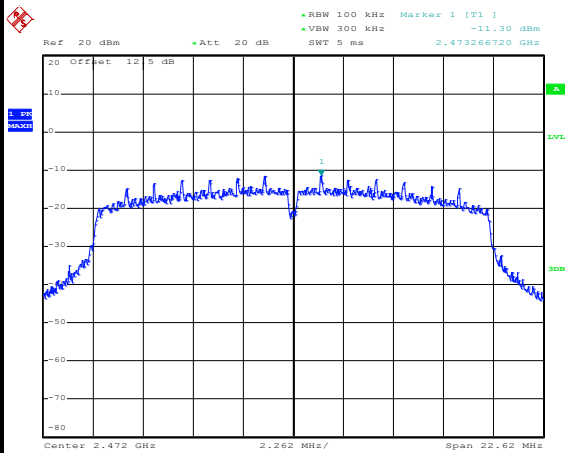
Date: 28.JAN.2019 15:09:40





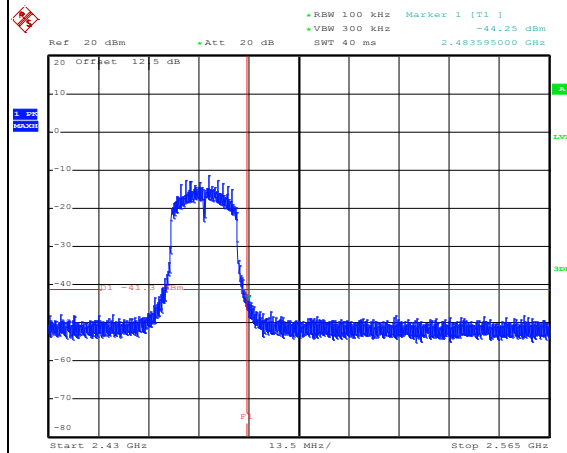
Test Mode :	802.11n HT20	Test Channel :	13
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100kHz PSD reference Level



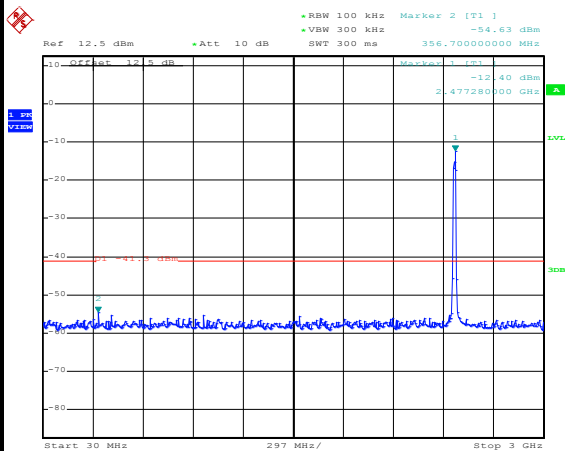
Date: 28.JAN.2019 15:48:06

Channel Plot



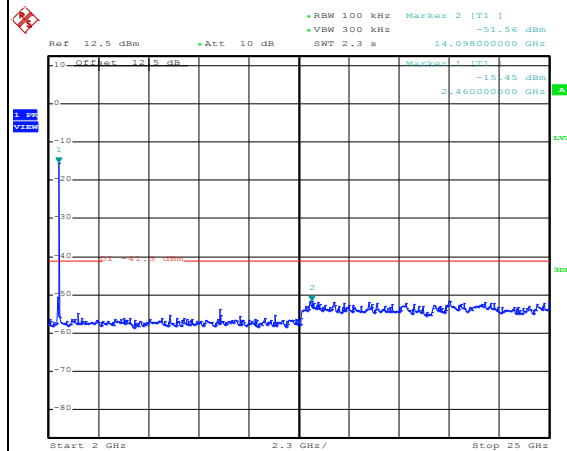
Date: 28.JAN.2019 15:48:58

Spurious Emission 30MHz~3GHz



Date: 28.JAN.2019 15:49:15

Spurious Emission 2GHz~25GHz



Date: 28.JAN.2019 15:49:38



3.5 Radiated Band Edges and Spurious Emission Measurement

3.5.1 Limit of Radiated band edge and Spurious Emission Measurement

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

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

3.5.2 Measuring Instruments

See list of measuring equipment of this test report.

3.5.3 Test Procedures

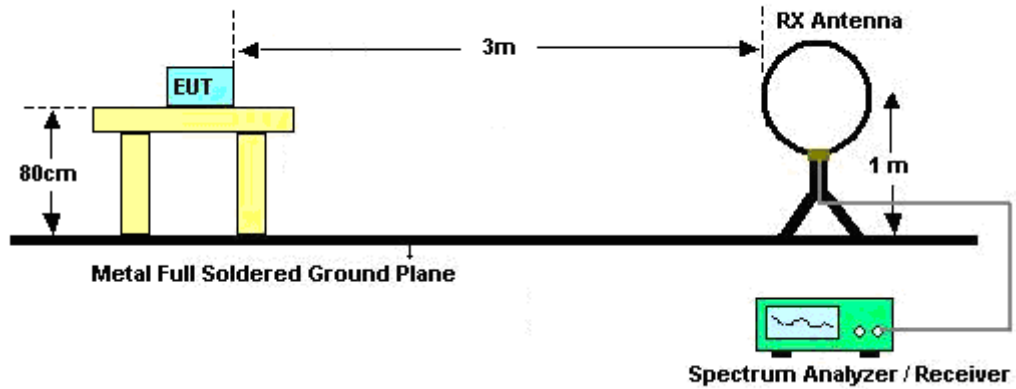
1. The testing follows the ANSI C63.10 Section 11.12.1 Radiated emission measurements.
2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level.
3. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
5. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level
6. For testing below 1GHz, if the emission level of the EUT in peak mode was 3 dB lower than the limit specified, then peak values of EUT will be reported, otherwise, the emissions will be repeated one by one using the CISPR quasi-peak method and reported.
7. For testing above 1GHz, the emission level of the EUT in peak mode was 20dB lower than average limit (that means the emission level in average mode also complies with the limit in average mode), then peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
8. Use the following spectrum analyzer settings:
 - (1) Span shall wide enough to fully capture the emission being measured;
 - (2) Set RBW=100 kHz for $f < 1$ GHz; VBW $\geq$ RBW; Sweep = auto; Detector function = peak; Trace = max hold;
 - (3) Set RBW = 1 MHz, VBW= 3MHz for $f \geq 1$ GHz for peak measurement.

For average measurement:

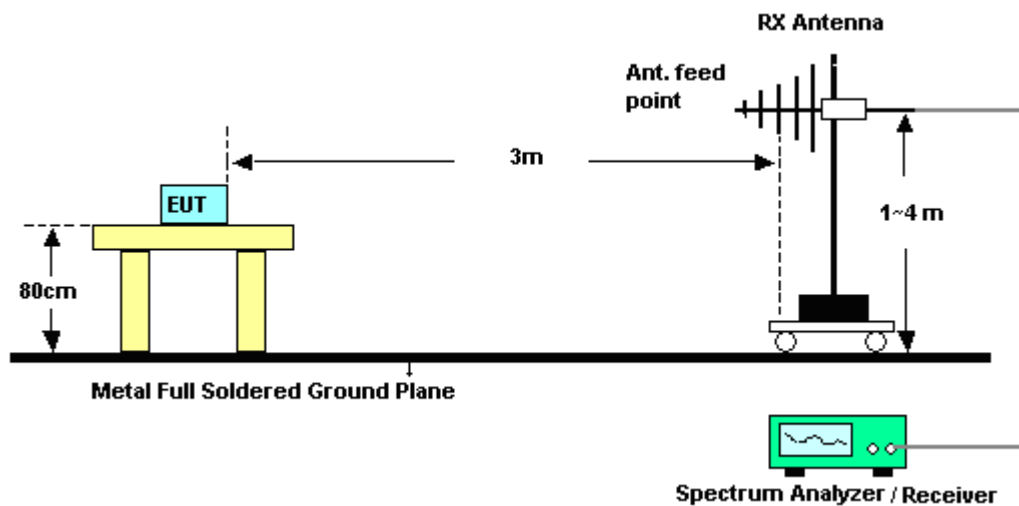
 - VBW = 10 Hz, when duty cycle is no less than 98 percent.
 - VBW $\geq 1/T$, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.

3.5.4 Test Setup

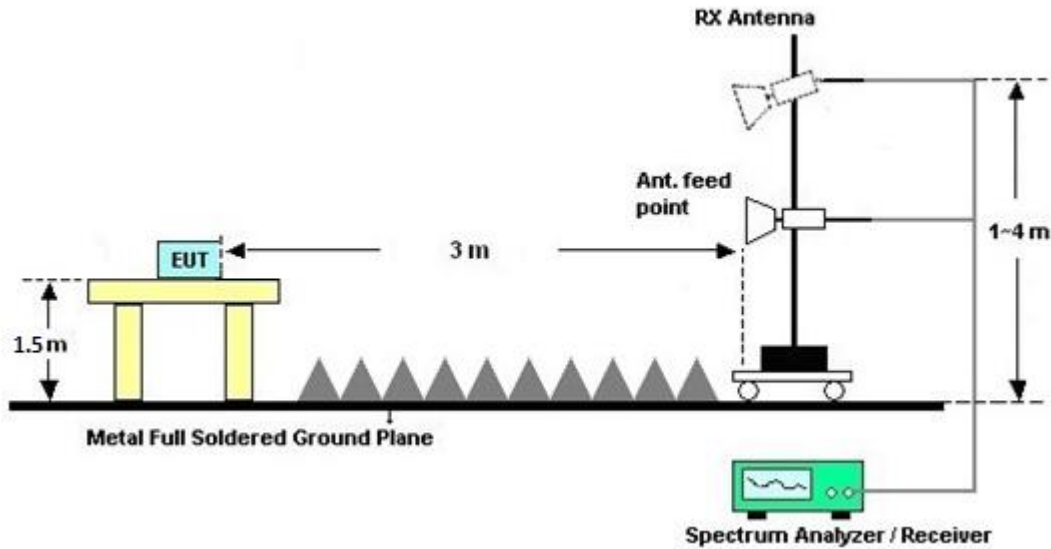
For radiated emissions below 30MHz



For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz



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

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

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

3.5.6 Test Result of Radiated Spurious at Band Edges

Please refer to Appendix C and D.

3.5.7 Duty Cycle

Please refer to Appendix E.

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

Please refer to Appendix C and D.

3.6 AC Conducted Emission Measurement

3.6.1 Limit of AC Conducted Emission

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

Frequency of Emission (MHz)	Conducted Limit (dB μ V)	
	Quasi-Peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

*Decreases with the logarithm of the frequency.

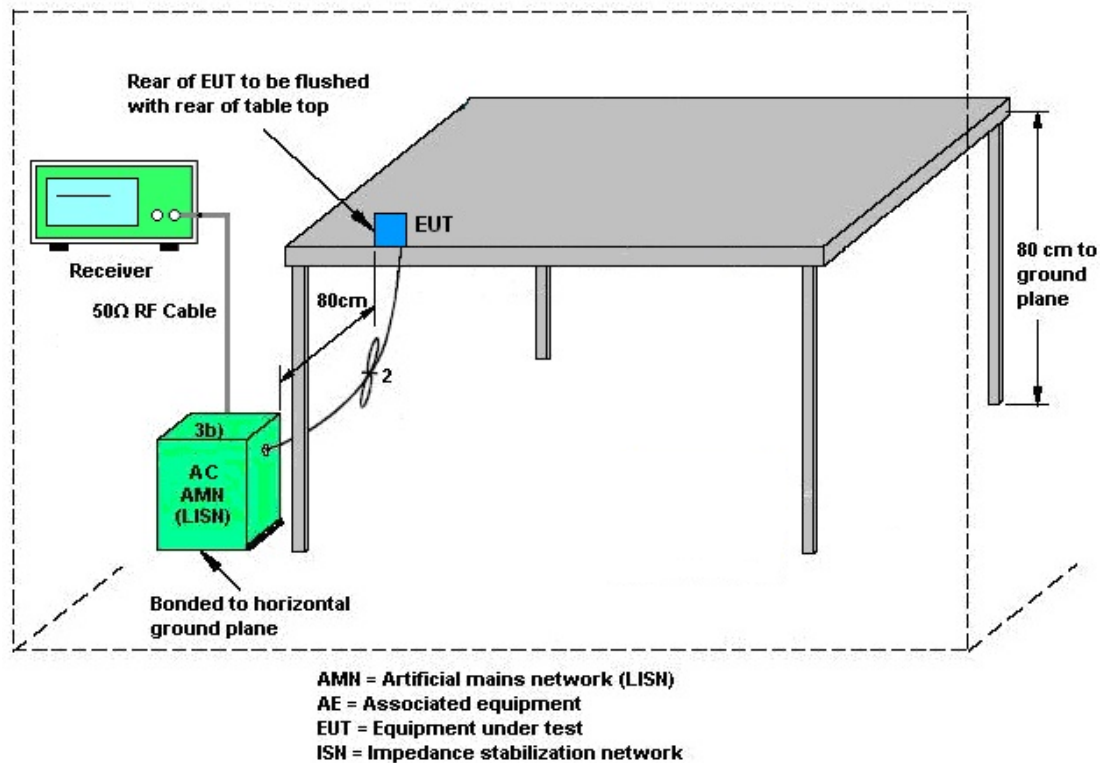
3.6.2 Measuring Instruments

See list of measuring equipment of this test report.

3.6.3 Test Procedures

1. The EUT was placed 0.4 meter from the conducting wall of the shielding room, and it was kept at least 80 centimeters from any other grounded conducting surface.
2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
3. All the support units are connecting to the other LISN.
4. The LISN provides 50 ohm coupling impedance for the measuring instrument.
5. The FCC states that a 50 ohm, 50 microhenry LISN should be used.
6. Both sides of AC line were checked for maximum conducted interference.
7. The frequency range from 150 kHz to 30 MHz was searched.
8. Set the test-receiver system to Peak Detect Function and specified bandwidth (IF bandwidth = 9kHz) with Maximum Hold Mode.

3.6.4 Test Setup



3.6.5 Test Result of AC Conducted Emission

Please refer to Appendix B.



3.7 Antenna Requirements

3.7.1 Standard Applicable

If directional gain of transmitting Antennas is greater than 6dBi, the power shall be reduced by the same level in dB comparing to gain minus 6dBi. The use of a permanently attached Antenna or of an Antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the rule.

3.7.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.

3.7.3 Antenna Gain

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



4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Power Sensor	DARE	RPR3006W	15I00041S NO10	10MHz~6GHz	May 07, 2018	Jan. 14, 2019~ Apr. 09, 2019	May 06, 2019	Conducted (TH05-HY)
Spectrum Analyzer	Rohde & Schwarz	FSP40	100057	9kHz~40GHz	Nov. 21, 2018	Jan. 14, 2019~ Apr. 09, 2019	Nov. 20, 2019	Conducted (TH05-HY)
Switch Box & RF Cable	Burgeon	ETF-058	EC130048 4	N/A	Apr. 17, 2018	Jan. 14, 2019~ Apr. 09, 2019	Apr. 16, 2019	Conducted (TH05-HY)
AC Power Source	ChainTek	APC-1000W	N/A	N/A	N/A	Jan. 07, 2019~ Jan. 08, 2019	N/A	Conduction (CO05-HY)
EMI Test Receiver	Rohde & Schwarz	ESR3	102388	9KHz~3.6GHz	Nov. 12, 2018	Jan. 07, 2019~ Jan. 08, 2019	Nov. 11, 2019	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100080	9kHz~30MHz	Nov. 14, 2018	Jan. 07, 2019~ Jan. 08, 2019	Nov. 13, 2019	Conduction (CO05-HY)
Software	Rohde & Schwarz	EMC32 V10.30	N/A	N/A	N/A	Jan. 07, 2019~ Jan. 08, 2019	N/A	Conduction (CO05-HY)
LF Cable	HUBER + SUHNER	RG-214/U	LF01	N/A	Jan. 02, 2019	Jan. 07, 2019~ Jan. 08, 2019	Jan. 01, 2020	Conduction (CO05-HY)
Pulse Limiter	SCHWARZBE CK	VTSD 9561-F N	9561-F N00373	9kHz~200MHz	Nov. 08, 2018	Jan. 07, 2019~ Jan. 08, 2019	Nov. 07, 2019	Conduction (CO05-HY)
Loop Antenna	TESEQ	HLA 6120	31244	9 kHz~30 MHz	Mar. 29, 2018	Jan. 26, 2019~ Jan. 27, 2019	Mar. 28, 2019	Radiation (03CH15-HY)
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100488	9 kHz~30 MHz	Jan. 07, 2019	Jan. 28, 2019~ Apr. 04, 2019	Jan. 06, 2020	Radiation (03CH15-HY)
Preamplifier	EMEC	EM18G40G	060715	18GHz ~ 40GHz	Dec. 06, 2018	Jan. 26, 2019~ Apr. 04, 2019	Dec. 05, 2019	Radiation (03CH15-HY)
Bilog Antenna	TESEQ	CBL6111D&0 0802N1D01N- 06	47020&06	30MHz to 1GHz	Oct. 13, 2018	Jan. 26, 2019~ Apr. 04, 2019	Oct. 12, 2019	Radiation (03CH15-HY)
Horn Antenna	SCHWARZBE CK	BBHA 9120D	9120D-162 0	1G~18GHz	Oct. 17, 2018	Jan. 26, 2019~ Apr. 04, 2019	Oct. 16, 2019	Radiation (03CH15-HY)
SHF-EHF Horn Antenna	SCHWARZBE CK	BBHA 9170	BBHA9170 576	18GHz ~ 40GHz	May 08, 2018	Jan. 26, 2019~ Apr. 04, 2019	May 07, 2019	Radiation (03CH15-HY)
Amplifier	SONOMA	310N	363440	9kHz~1GHz	Dec. 28, 2018	Jan. 26, 2019~ Apr. 04, 2019	Dec. 27, 2019	Radiation (03CH15-HY)
Preamplifier	Jet-Power	JPA0118-55-3 03	171000180 00550006	1GHz~18GHz	Jul. 10, 2018	Jan. 26, 2019~ Apr. 04, 2019	Jul. 09, 2019	Radiation (03CH15-HY)
Preamplifier	Keysight	83017A	MY532701 95	1GHz~26.5GHz	Aug. 23, 2018	Jan. 26, 2019~ Apr. 04, 2019	Aug. 22, 2019	Radiation (03CH15-HY)
EMI Test Receiver	Keysight	N9038A (MXE)	MY541300 85	20Hz ~ 8.4GHz	Nov. 01, 2018	Jan. 26, 2019~ Apr. 04, 2019	Oct. 31, 2019	Radiation (03CH15-HY)
Spectrum Analyzer	Agilent	E4446A	MY501801 36	3Hz~44GHz	Apr. 25, 2018	Jan. 26, 2019~ Apr. 04, 2019	Apr. 24, 2019	Radiation (03CH15-HY)
Antenna Mast	ChainTek	MBS-520-1	N/A	1m~4m	N/A	Jan. 26, 2019~ Apr. 04, 2019	N/A	Radiation (03CH15-HY)
Turn Table	ChainTek	T-200-S-1	N/A	0~360 Degree	N/A	Jan. 26, 2019~ Apr. 04, 2019	N/A	Radiation (03CH15-HY)
Software	Audix	E3 6.2009-8-24	RK-00045 1	N/A	N/A	Jan. 26, 2019~ Apr. 04, 2019	N/A	Radiation (03CH15-HY)

5 Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	2.2
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Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.2
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Uncertainty of Radiated Emission Measurement (1000 MHz ~ 18000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.5
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Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.2
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Appendix A. Test Result of Conducted Test Items

Test Engineer:	Luffy Lin/Richard Qiu	Temperature:	21~25	°C
Test Date:	2019/1/14~2019/4/9	Relative Humidity:	51~54	%

TEST RESULTS DATA
6dB and 99% Occupied Bandwidth

2.4GHz Band										
Mod.	Data Rate	N _{TX}	CH.	Freq. (MHz)	99% Occupied BW (MHz)		6dB BW (MHz)		6dB BW Limit (MHz)	Pass/Fail
					Ant 1	Ant 2	Ant 1	Ant 2		
11b	1Mbps	1	1	2412	14.05	-	9.04	-	0.50	Pass
11b	1Mbps	1	6	2437	14.30	-	9.04	-	0.50	Pass
11b	1Mbps	1	11	2462	14.15	-	9.04	-	0.50	Pass
11b	1Mbps	1	12	2467	14.00	-	8.04	-	0.50	Pass
11b	1Mbps	1	13	2472	14.00	-	9.04	-	0.50	Pass
11g	6Mbps	1	1	2412	16.45	-	15.12	-	0.50	Pass
11g	6Mbps	1	2	2417	16.50	-	15.12	-	0.50	Pass
11g	6Mbps	1	6	2437	17.00	-	15.08	-	0.50	Pass
11g	6Mbps	1	10	2457	16.55	-	15.12	-	0.50	Pass
11g	6Mbps	1	11	2462	16.45	-	15.09	-	0.50	Pass
11g	6Mbps	1	12	2467	16.45	-	15.12	-	0.50	Pass
11g	6Mbps	1	13	2472	16.55	-	15.14	-	0.50	Pass
HT20	MCS0	1	1	2412	17.55	-	15.08	-	0.50	Pass
HT20	MCS0	1	2	2417	17.55	-	15.06	-	0.50	Pass
HT20	MCS0	1	6	2437	18.80	-	15.12	-	0.50	Pass
HT20	MCS0	1	10	2457	17.60	-	15.08	-	0.50	Pass
HT20	MCS0	1	11	2462	17.60	-	15.12	-	0.50	Pass
HT20	MCS0	1	12	2467	17.60	-	15.12	-	0.50	Pass
HT20	MCS0	1	13	2472	17.60	-	15.08	-	0.50	Pass

TEST RESULTS DATA
Average Output Power

2.4GHz Band																
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Conducted Power (dBm)			Conducted Power Limit (dBm)		DG (dBi)		EIRP Power (dBm)		EIRP Power Limit (dBm)		Pass /Fail
					Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	
11b	1Mbps	1	1	2412	20.10	-	-	30.00	-	0.50	-	20.60	-	36.00	-	Pass
11b	1Mbps	1	6	2437	21.80	-		30.00	-	0.50	-	22.30	-	36.00	-	Pass
11b	1Mbps	1	11	2462	20.90	-		30.00	-	0.50	-	21.40	-	36.00	-	Pass
11b	1Mbps	1	12	2467	18.80	-		30.00	-	0.50	-	19.30	-	36.00	-	Pass
11b	1Mbps	1	13	2472	12.50	-		30.00	-	0.50	-	13.00	-	36.00	-	Pass
11g	6Mbps	1	1	2412	16.90	-		30.00	-	0.50	-	17.40	-	36.00	-	Pass
11g	6Mbps	1	2	2417	18.80	-		30.00	-	0.50	-	19.30	-	36.00	-	Pass
11g	6Mbps	1	6	2437	21.20	-		30.00	-	0.50	-	21.70	-	36.00	-	Pass
11g	6Mbps	1	10	2457	19.20	-		30.00	-	0.50	-	19.70	-	36.00	-	Pass
11g	6Mbps	1	11	2462	17.10	-		30.00	-	0.50	-	17.60	-	36.00	-	Pass
11g	6Mbps	1	12	2467	14.90	-		30.00	-	0.50	-	15.40	-	36.00	-	Pass
11g	6Mbps	1	13	2472	1.90	-		30.00	-	0.50	-	2.40	-	36.00	-	Pass
HT20	MCS0	1	1	2412	16.70	-		30.00	-	0.50	-	17.20	-	36.00	-	Pass
HT20	MCS0	1	2	2417	18.10	-		30.00	-	0.50	-	18.60	-	36.00	-	Pass
HT20	MCS0	1	6	2437	21.90	-		30.00	-	0.50	-	22.40	-	36.00	-	Pass
HT20	MCS0	1	10	2457	19.00	-		30.00	-	0.50	-	19.50	-	36.00	-	Pass
HT20	MCS0	1	11	2462	16.70	-		30.00	-	0.50	-	17.20	-	36.00	-	Pass
HT20	MCS0	1	12	2467	15.70	-		30.00	-	0.50	-	16.20	-	36.00	-	Pass
HT20	MCS0	1	13	2472	-1.10	-		30.00	-	0.50	-	-0.60	-	36.00	-	Pass

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

TEST RESULTS DATA
Peak Power Spectral Density

2.4GHz Band												
Mod.	Data Rate	Ntx	CH.	Freq. (MHz)	Peak PSD (dBm/3kHz)			DG (dBi)		Peak PSD Limit (dBm/3kHz)		Pass/Fail
					Ant 1	Ant 2	Worse + 3.01	Ant 1	Ant 2	Ant 1	Ant 2	
11b	1Mbps	1	1	2412	-0.18	-	-	0.50	-	8.00	-	Pass
11b	1Mbps	1	6	2437	-0.06	-	-	0.50	-	8.00	-	Pass
11b	1Mbps	1	11	2462	-2.19	-	-	0.50	-	8.00	-	Pass
11b	1Mbps	1	12	2467	-3.60	-	-	0.50	-	8.00	-	Pass
11b	1Mbps	1	13	2472	-10.96	-	-	0.50	-	8.00	-	Pass
11g	6Mbps	1	1	2412	-8.18	-	-	0.50	-	8.00	-	Pass
11g	6Mbps	1	2	2417	-7.67	-	-	0.50	-	8.00	-	Pass
11g	6Mbps	1	6	2437	-3.87	-	-	0.50	-	8.00	-	Pass
11g	6Mbps	1	10	2457	-6.56	-	-	0.50	-	8.00	-	Pass
11g	6Mbps	1	11	2462	-8.25	-	-	0.50	-	8.00	-	Pass
11g	6Mbps	1	12	2467	-10.65	-	-	0.50	-	8.00	-	Pass
11g	6Mbps	1	13	2472	-24.82	-	-	0.50	-	8.00	-	Pass
HT20	MCS0	1	1	2412	-8.83	-	-	0.50	-	8.00	-	Pass
HT20	MCS0	1	2	2417	-8.30	-	-	0.50	-	8.00	-	Pass
HT20	MCS0	1	6	2437	-4.01	-	-	0.50	-	8.00	-	Pass
HT20	MCS0	1	10	2457	-7.03	-	-	0.50	-	8.00	-	Pass
HT20	MCS0	1	11	2462	-8.99	-	-	0.50	-	8.00	-	Pass
HT20	MCS0	1	12	2467	-9.50	-	-	0.50	-	8.00	-	Pass
HT20	MCS0	1	13	2472	-26.19	-	-	0.50	-	8.00	-	Pass

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



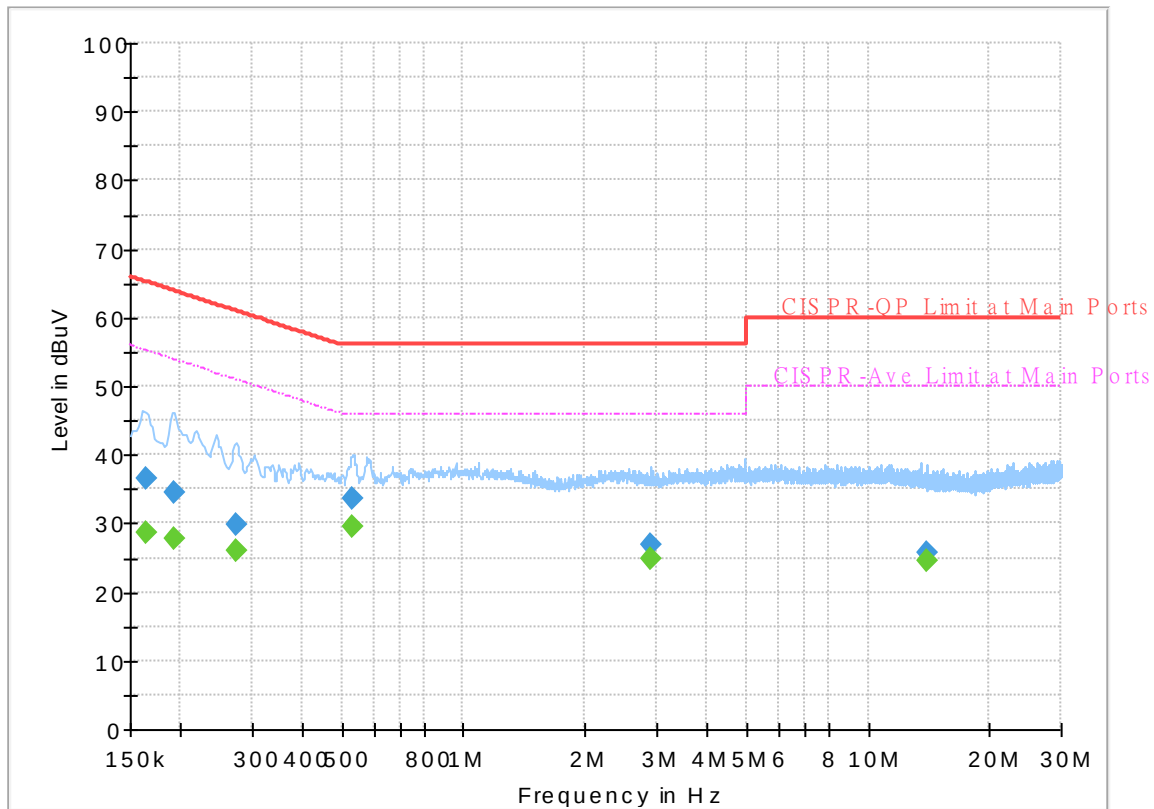
Appendix B. AC Conducted Emission Test Results

Test Engineer :	Jimmy Chang	Temperature :	25~26℃
		Relative Humidity :	50~53%

EUT Information

Report NO : 800112-01
Test Mode : Mode 2
Test Voltage : 120Vac/60Hz
Phase : Line

Full Spectrum



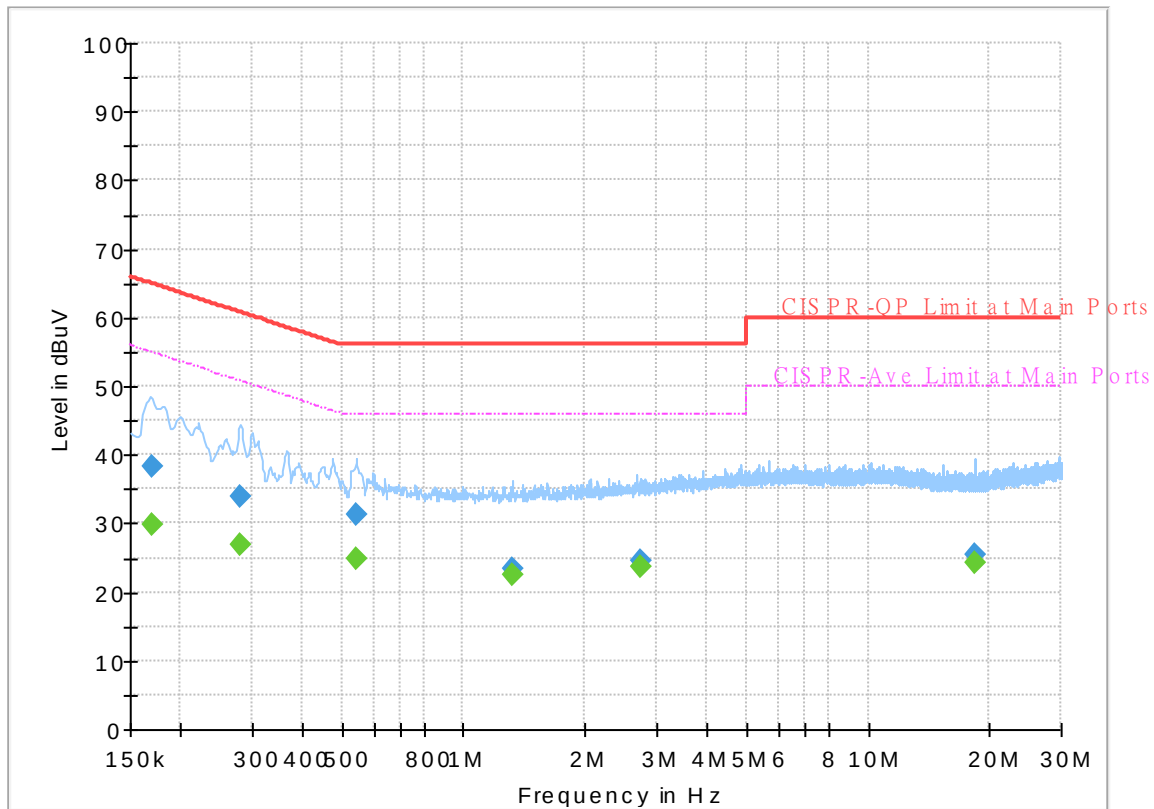
Final Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.163500	---	28.72	55.28	26.56	L1	OFF	19.5
0.163500	36.50	---	65.28	28.78	L1	OFF	19.5
0.192750	---	27.75	53.92	26.17	L1	OFF	19.5
0.192750	34.63	---	63.92	29.29	L1	OFF	19.5
0.273750	---	25.94	51.00	25.06	L1	OFF	19.5
0.273750	29.93	---	61.00	31.07	L1	OFF	19.5
0.532500	---	29.63	46.00	16.37	L1	OFF	19.5
0.532500	33.67	---	56.00	22.33	L1	OFF	19.5
2.901750	---	24.98	46.00	21.02	L1	OFF	19.6
2.901750	26.78	---	56.00	29.22	L1	OFF	19.6
13.931250	---	24.63	50.00	25.37	L1	OFF	20.1
13.931250	25.67	---	60.00	34.33	L1	OFF	20.1

EUT Information

Report NO : 800112-01
Test Mode : Mode 2
Test Voltage : 120Vac/60Hz
Phase : Neutral

Full Spectrum



Final Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.170250	---	29.85	54.95	25.10	N	OFF	19.5
0.170250	38.22	---	64.95	26.73	N	OFF	19.5
0.280500	---	26.79	50.80	24.01	N	OFF	19.5
0.280500	33.97	---	60.80	26.83	N	OFF	19.5
0.543750	---	24.94	46.00	21.06	N	OFF	19.5
0.543750	31.17	---	56.00	24.83	N	OFF	19.5
1.320000	---	22.65	46.00	23.35	N	OFF	19.6
1.320000	23.53	---	56.00	32.47	N	OFF	19.6
2.726250	---	23.59	46.00	22.41	N	OFF	19.6
2.726250	24.48	---	56.00	31.52	N	OFF	19.6
18.438000	---	24.28	50.00	25.72	N	OFF	20.3
18.438000	25.41	---	60.00	34.59	N	OFF	20.3



Appendix C. Radiated Spurious Emission

Test Engineer :	Watt Tseng, Karl Hou, and Bigshow Wang	Temperature :	24~26°C
		Relative Humidity :	47~58%



2.4GHz 2400~2483.5MHz

WIFI 802.11b (Band Edge @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11b CH 01 2412MHz		2385.495	58.46	-15.54	74	45.92	27.63	15.77	30.86	100	118	P	H
		2381.085	51.71	-2.29	54	39.18	27.63	15.76	30.86	100	118	A	H
	*	2412	109.34	-	-	96.78	27.6	15.81	30.85	100	118	P	H
	*	2412	106.24	-	-	93.68	27.6	15.81	30.85	100	118	A	H
		2381.19	57.67	-16.33	74	45.14	27.63	15.76	30.86	389	327	P	V
		2381.085	50.82	-3.18	54	38.29	27.63	15.76	30.86	389	327	A	V
	*	2412	108.11	-	-	95.55	27.6	15.81	30.85	389	327	P	V
	*	2412	104.95	-	-	92.39	27.6	15.81	30.85	389	327	A	V
802.11b CH 06 2437MHz		2388.26	58.75	-15.25	74	46.24	27.6	15.77	30.86	167	118	P	H
		2388.12	51.89	-2.11	54	39.38	27.6	15.77	30.86	167	118	A	H
	*	2437	112.27	-	-	99.67	27.6	15.84	30.84	167	118	P	H
	*	2437	109.02	-	-	96.42	27.6	15.84	30.84	167	118	A	H
		2487.19	55.46	-18.54	74	42.9	27.47	15.91	30.82	167	118	P	H
		2485.86	48.11	-5.89	54	35.55	27.47	15.91	30.82	167	118	A	H
		2387.98	57.61	-16.39	74	45.1	27.6	15.77	30.86	375	320	P	V
		2388.12	51.3	-2.7	54	38.79	27.6	15.77	30.86	375	320	A	V
	*	2437	113.63	-	-	101.03	27.6	15.84	30.84	375	320	P	V
	*	2437	110.38	-	-	97.78	27.6	15.84	30.84	375	320	A	V
		2487.12	55.99	-18.01	74	43.43	27.47	15.91	30.82	375	320	P	V
		2485.58	47.53	-6.47	54	34.97	27.47	15.91	30.82	375	320	A	V



802.11b CH 11 2462MHz	*	2462	110.09	-	-	97.51	27.53	15.88	30.83	141	108	P	H
	*	2462	106.92	-	-	94.34	27.53	15.88	30.83	141	108	A	H
		2488.08	58.28	-15.72	74	45.79	27.4	15.91	30.82	141	108	P	H
		2487.76	51.97	-2.03	54	39.48	27.4	15.91	30.82	141	108	A	H
	*	2462	111.38	-	-	98.8	27.53	15.88	30.83	368	322	P	V
	*	2462	108.16	-	-	95.58	27.53	15.88	30.83	368	322	A	V
		2487.48	58.6	-15.4	74	46.04	27.47	15.91	30.82	368	322	P	V
		2487.76	52.25	-1.75	54	39.76	27.4	15.91	30.82	368	322	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



WIFI	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 12 2467MHz	*	2467	108.35	-	-	95.76	27.53	15.88	30.82	141	107	P	H
	*	2467	105.16	-	-	92.57	27.53	15.88	30.82	141	107	A	H
		2485.44	58.26	-15.74	74	45.7	27.47	15.91	30.82	141	107	P	H
		2484.4	52.13	-1.87	54	39.57	27.47	15.91	30.82	141	107	A	H
	*	2467	109.38	-	-	96.79	27.53	15.88	30.82	370	324	P	V
	*	2467	106.23	-	-	93.64	27.53	15.88	30.82	370	324	A	V
		2484.2	58.89	-15.11	74	46.33	27.47	15.91	30.82	370	324	P	V
		2484.48	52.82	-1.18	54	40.26	27.47	15.91	30.82	370	324	A	V
802.11b CH 13 2472MHz	*	2472	101.56	-	-	89.02	27.47	15.89	30.82	100	68	P	H
	*	2472	98.2	-	-	85.66	27.47	15.89	30.82	100	68	A	H
		2483.76	58.52	-15.48	74	45.96	27.47	15.91	30.82	100	68	P	H
		2483.52	52.85	-1.15	54	40.29	27.47	15.91	30.82	100	68	A	H
	*	2472	102.17	-	-	89.63	27.47	15.89	30.82	370	326	P	V
	*	2472	99.04	-	-	86.5	27.47	15.89	30.82	370	326	A	V
		2483.56	58.89	-15.11	74	46.33	27.47	15.91	30.82	370	326	P	V
		2483.52	52.9	-1.1	54	40.34	27.47	15.91	30.82	370	326	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 802.11b (Harmonic @ 3m)

WIFI	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	39	-35	74	57.26	31.3	8.5	58.06	100	0	P	H
		4824	38.96	-35.04	74	57.22	31.3	8.5	58.06	100	0	P	V
802.11b CH 06 2437MHz		4874	39.2	-34.8	74	57.35	31.3	8.65	58.1	100	0	P	H
		7311	55.38	-18.62	74	66.25	36.2	11.27	58.34	105	187	P	H
		7311	51.06	-2.94	54	61.93	36.2	11.27	58.34	105	187	A	H
		4874	38.97	-35.03	74	57.12	31.3	8.65	58.1	100	0	P	V
		7311	52.18	-21.82	74	63.05	36.2	11.27	58.34	110	23	P	V
		7311	46.15	-7.85	54	57.02	36.2	11.27	58.34	110	23	A	V
802.11b CH 11 2462MHz		4924	39.79	-34.21	74	57.76	31.37	8.8	58.14	100	0	P	H
		7386	56.37	-17.63	74	66.91	36.5	11.28	58.32	100	186	P	H
		7386	52.42	-1.58	54	62.96	36.5	11.28	58.32	100	186	A	H
		4924	40.01	-33.99	74	57.98	31.37	8.8	58.14	100	0	P	V
		7386	52.97	-21.03	74	63.51	36.5	11.28	58.32	100	27	P	V
		7386	48.03	-5.97	54	58.57	36.5	11.28	58.32	100	27	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



WIFI	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 12 2467MHz		4934	39.3	-34.7	74	57.25	31.37	8.83	58.15	100	0	P	H
		7401	53.66	-20.34	74	64.17	36.53	11.28	58.32	100	184	P	H
		7401	48.31	-5.69	54	58.82	36.53	10.85	58.32	100	184	A	H
		4934	39.16	-34.84	74	57.11	31.37	8.83	58.15	100	0	P	V
		7401	49.52	-24.48	74	60.03	36.53	11.28	58.32	100	0	P	V
802.11b CH 13 2472MHz		4944	39.95	-34.05	74	57.86	31.4	8.85	58.16	100	0	P	H
		7416	45.08	-28.92	74	55.57	36.53	11.3	58.32	100	0	P	H
		4944	39.34	-34.66	74	57.25	31.4	8.85	58.16	100	0	P	V
		7416	44.63	-29.37	74	55.12	36.53	11.3	58.32	100	0	P	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	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		2389.905	66.95	-7.05	74	54.43	27.6	15.77	30.85	100	71	P	H
		2389.485	50.38	-3.62	54	37.87	27.6	15.77	30.86	100	71	A	H
	*	2412	107.59	-	-	95.03	27.6	15.81	30.85	100	71	P	H
	*	2412	99.93	-	-	87.37	27.6	15.81	30.85	100	71	A	H
		2388.435	68.11	-5.89	74	55.6	27.6	15.77	30.86	387	326	P	V
		2389.695	53.21	-0.79	54	40.7	27.6	15.77	30.86	387	326	A	V
	*	2412	108.73	-	-	96.17	27.6	15.81	30.85	387	326	P	V
	*	2412	101.02	-	-	88.46	27.6	15.81	30.85	387	326	A	V
802.11g CH 02 2417MHz		2386.44	68.01	-5.99	74	55.5	27.6	15.77	30.86	258	109	P	H
		2387.98	53.35	-0.65	54	40.84	27.6	15.77	30.86	258	109	A	H
	*	2417	110.05	-	-	97.48	27.6	15.81	30.84	258	109	P	H
	*	2417	102.78	-	-	90.21	27.6	15.81	30.84	258	109	A	H
		2387.84	67.24	-6.76	74	54.73	27.6	15.77	30.86	381	326	P	V
		2389.94	53.12	-0.88	54	40.6	27.6	15.77	30.85	381	326	A	V
	*	2417	110.05	-	-	97.48	27.6	15.81	30.84	381	326	P	V
	*	2417	102.64	-	-	90.07	27.6	15.81	30.84	381	326	A	V



802.11g CH 06 2437MHz		2388.96	62.86	-11.14	74	50.35	27.6	15.77	30.86	100	70	P	H
		2389.94	52.92	-1.08	54	40.4	27.6	15.77	30.85	100	70	A	H
	*	2437	114.21	-	-	101.61	27.6	15.84	30.84	100	70	P	H
	*	2437	106.43	-	-	93.83	27.6	15.84	30.84	100	70	A	H
		2484.95	61.71	-12.29	74	49.15	27.47	15.91	30.82	100	70	P	H
		2484.11	48.4	-5.6	54	35.84	27.47	15.91	30.82	100	70	A	H
		2353.54	62.86	-11.14	74	50.35	27.67	15.72	30.88	378	328	P	V
		2389.52	50.96	-3.04	54	38.45	27.6	15.77	30.86	378	328	A	V
	*	2437	113.77	-	-	101.17	27.6	15.84	30.84	378	328	P	V
	*	2437	106.48	-	-	93.88	27.6	15.84	30.84	378	328	A	V
		2486.7	57.81	-16.19	74	45.25	27.47	15.91	30.82	378	328	P	V
		2483.76	46.37	-7.63	54	33.81	27.47	15.91	30.82	378	328	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



WIFI	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 10 2457MHz	*	2457	110.79	-	-	98.22	27.53	15.87	30.83	140	69	P	H
	*	2457	102.97	-	-	90.4	27.53	15.87	30.83	140	69	A	H
		2486.14	63.56	-10.44	74	51	27.47	15.91	30.82	140	69	P	H
		2483.68	53.17	-0.83	54	40.61	27.47	15.91	30.82	140	69	A	H
	*	2457	110.89	-	-	98.32	27.53	15.87	30.83	369	44	P	V
	*	2457	103.27	-	-	90.7	27.53	15.87	30.83	369	44	A	V
		2484.7	63.22	-10.78	74	50.66	27.47	15.91	30.82	369	44	P	V
		2483.5	52.63	-1.37	54	40.07	27.47	15.91	30.82	369	44	A	V
802.11g CH 11 2462MHz	*	2462	108.78	-	-	96.2	27.53	15.88	30.83	250	111	P	H
	*	2462	101.24	-	-	88.66	27.53	15.88	30.83	250	111	A	H
		2483.52	63.98	-10.02	74	51.42	27.47	15.91	30.82	250	111	P	H
		2483.56	51.07	-2.93	54	38.51	27.47	15.91	30.82	250	111	A	H
	*	2462	108.67	-	-	96.09	27.53	15.88	30.83	400	37	P	V
	*	2462	101.08	-	-	88.5	27.53	15.88	30.83	400	37	A	V
		2483.6	66.01	-7.99	74	53.45	27.47	15.91	30.82	400	37	P	V
		2483.52	53.23	-0.77	54	40.67	27.47	15.91	30.82	400	37	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



WIFI	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 12 2467MHz	*	2467	107	-	-	94.41	27.53	15.88	30.82	135	72	P	H
	*	2467	99.43	-	-	86.84	27.53	15.88	30.82	135	72	A	H
		2486	62.43	-11.57	74	49.87	27.47	15.91	30.82	135	72	P	H
		2483.8	52.24	-1.76	54	39.68	27.47	15.91	30.82	135	72	A	H
	*	2467	106.77	-	-	94.18	27.53	15.88	30.82	400	35	P	V
	*	2467	99.1	-	-	86.51	27.53	15.88	30.82	400	35	A	V
		2484.08	64.04	-9.96	74	51.48	27.47	15.91	30.82	400	35	P	V
		2483.76	52.85	-1.15	54	40.29	27.47	15.91	30.82	400	35	A	V
802.11g CH 13 2472MHz	*	2472	93.76	-	-	81.22	27.47	15.89	30.82	137	72	P	H
	*	2472	85.98	-	-	73.44	27.47	15.89	30.82	137	72	A	H
		2483.6	68.09	-5.91	74	55.53	27.47	15.91	30.82	137	72	P	H
		2483.52	52.04	-1.96	54	39.48	27.47	15.91	30.82	137	72	A	H
	*	2472	94.41	-	-	81.87	27.47	15.89	30.82	400	37	P	V
	*	2472	86.76	-	-	74.22	27.47	15.89	30.82	400	37	A	V
		2484.08	66.32	-7.68	74	53.76	27.47	15.91	30.82	400	37	P	V
		2483.64	53.3	-0.7	54	40.74	27.47	15.91	30.82	400	37	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

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

WIFI	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	38.34	-35.66	74	56.6	31.3	8.5	58.06	100	0	P	H
		4824	38.92	-35.08	74	57.18	31.3	8.5	58.06	100	0	P	V
802.11g CH 06 2437MHz		4874	39.12	-34.88	74	57.27	31.3	8.65	58.1	100	0	P	H
		7311	56.12	-17.88	74	66.99	36.2	11.27	58.34	100	185	P	H
		7311	45.44	-8.56	54	56.31	36.2	11.27	58.34	100	185	A	H
		4874	40.95	-33.05	74	59.1	31.3	8.65	58.1	100	0	P	V
		7311	48.61	-25.39	74	59.48	36.2	11.27	58.34	100	0	P	V
802.11g CH 11 2462MHz		4924	38.98	-35.02	74	56.95	31.37	8.8	58.14	100	0	P	H
		7386	54.04	-19.96	74	64.58	36.5	11.28	58.32	100	185	P	H
		7386	42.69	-11.31	54	53.23	36.5	11.28	58.32	100	185	A	H
		4924	38.94	-35.06	74	56.91	31.37	8.8	58.14	100	0	P	V
		7386	48.36	-25.64	74	58.9	36.5	11.28	58.32	100	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



WIFI	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 12 2467MHz		4934	38.94	-35.06	74	56.89	31.37	8.83	58.15	100	0	P	H
		7401	48.51	-25.49	74	59.02	36.53	11.28	58.32	100	0	P	H
		4934	38.66	-35.34	74	56.61	31.37	8.83	58.15	100	0	P	V
		7401	45.18	-28.82	74	55.69	36.53	11.28	58.32	100	0	P	V
802.11g CH 13 2472MHz		4944	38.94	-35.06	74	56.85	31.4	8.85	58.16	100	0	P	H
		7416	44.02	-29.98	74	54.51	36.53	11.3	58.32	100	0	P	H
		4944	39.28	-34.72	74	57.19	31.4	8.85	58.16	100	0	P	V
		7416	44.66	-29.34	74	55.15	36.53	11.3	58.32	100	0	P	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	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		2386.86	67.18	-6.82	74	54.67	27.6	15.77	30.86	100	109	P	H
		2389.275	50.59	-3.41	54	38.08	27.6	15.77	30.86	100	109	A	H
	*	2412	108.87	-	-	96.31	27.6	15.81	30.85	100	109	P	H
	*	2412	100.35	-	-	87.79	27.6	15.81	30.85	100	109	A	H
		2386.65	69.23	-4.77	74	56.72	27.6	15.77	30.86	393	320	P	V
		2389.065	53.47	-0.53	54	40.96	27.6	15.77	30.86	393	320	A	V
	*	2412	108.05	-	-	95.49	27.6	15.81	30.85	393	320	P	V
	*	2412	100.74	-	-	88.18	27.6	15.81	30.85	393	320	A	V
802.11n HT20 CH 02 2417MHz		2389.24	70.08	-3.92	74	57.57	27.6	15.77	30.86	137	113	P	H
		2387.98	53.21	-0.79	54	40.7	27.6	15.77	30.86	137	113	A	H
	*	2417	110.07	-	-	97.5	27.6	15.81	30.84	137	113	P	H
	*	2417	102.57	-	-	90	27.6	15.81	30.84	137	113	A	H
		2389.94	69.95	-4.05	74	57.43	27.6	15.77	30.85	384	326	P	V
		2388.68	53.24	-0.76	54	40.73	27.6	15.77	30.86	384	326	A	V
	*	2417	110.04	-	-	97.47	27.6	15.81	30.84	384	326	P	V
	*	2417	102.33	-	-	89.76	27.6	15.81	30.84	384	326	A	V



802.11n HT20 CH 06 2437MHz		2383.22	67.2	-6.8	74	54.67	27.63	15.76	30.86	119	109	P	H
		2389.8	53.02	-0.98	54	40.5	27.6	15.77	30.85	119	109	A	H
	*	2437	113.43	-	-	100.83	27.6	15.84	30.84	119	109	P	H
	*	2437	105.9	-	-	93.3	27.6	15.84	30.84	119	109	A	H
		2484.95	62.77	-11.23	74	50.21	27.47	15.91	30.82	119	109	P	H
		2484.04	49.23	-4.77	54	36.67	27.47	15.91	30.82	119	109	A	H
		2387.42	67.24	-6.76	74	54.73	27.6	15.77	30.86	387	8	P	V
		2388.96	50.51	-3.49	54	38	27.6	15.77	30.86	387	8	A	V
	*	2437	112.65	-	-	100.05	27.6	15.84	30.84	387	8	P	V
	*	2437	105.15	-	-	92.55	27.6	15.84	30.84	387	8	A	V
		2487.47	59.45	-14.55	74	46.89	27.47	15.91	30.82	387	8	P	V
		2483.69	46.92	-7.08	54	34.36	27.47	15.91	30.82	387	8	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



WIFI	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 10 2457MHz	*	2457	110.15	-	-	97.58	27.53	15.87	30.83	191	115	P	H
	*	2457	102.49	-	-	89.92	27.53	15.87	30.83	191	115	A	H
		2484.22	65.86	-8.14	74	53.3	27.47	15.91	30.82	191	115	P	H
		2483.5	52.82	-1.18	54	40.26	27.47	15.91	30.82	191	115	A	H
	*	2457	110.31	-	-	97.74	27.53	15.87	30.83	367	335	P	V
	*	2457	102.88	-	-	90.31	27.53	15.87	30.83	367	335	A	V
		2483.86	65.19	-8.81	74	52.63	27.47	15.91	30.82	367	335	P	V
		2483.74	52.53	-1.47	54	39.97	27.47	15.91	30.82	367	335	A	V
802.11n HT20 CH 11 2462MHz	*	2462	108.92	-	-	96.34	27.53	15.88	30.83	139	109	P	H
	*	2462	101.31	-	-	88.73	27.53	15.88	30.83	139	109	A	H
		2484.4	65.69	-8.31	74	53.13	27.47	15.91	30.82	139	109	P	H
		2483.6	53.02	-0.98	54	40.46	27.47	15.91	30.82	139	109	P	H
	*	2462	106.79	-	-	94.21	27.53	15.88	30.83	400	53	P	V
	*	2462	99.03	-	-	86.45	27.53	15.88	30.83	400	53	A	V
		2487.04	66.16	-7.84	74	53.6	27.47	15.91	30.82	400	53	P	V
		2483.8	50.71	-3.29	54	38.15	27.47	15.91	30.82	400	53	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



WIFI	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 12 2467MHz	*	2467	106.85	-	-	94.26	27.53	15.88	30.82	117	98	P	H
	*	2467	99.25	-	-	86.66	27.53	15.88	30.82	117	98	A	H
		2483.88	70.05	-3.95	74	57.49	27.47	15.91	30.82	117	98	P	H
		2483.52	52.24	-1.76	54	39.68	27.47	15.91	30.82	117	98	A	H
	*	2467	106.33	-	-	93.74	27.53	15.88	30.82	327	41	P	V
	*	2467	99.1	-	-	86.51	27.53	15.88	30.82	327	41	A	V
		2483.68	67.52	-6.48	74	54.96	27.47	15.91	30.82	327	41	P	V
		2483.68	52.36	-1.64	54	39.8	27.47	15.91	30.82	327	41	A	V
802.11n HT20 CH 13 2472MHz	*	2472	91.34	-	-	78.8	27.47	15.89	30.82	143	97	P	H
	*	2472	83.63	-	-	71.09	27.47	15.89	30.82	143	97	A	H
		2483.84	64.19	-9.81	74	51.63	27.47	15.91	30.82	143	97	P	H
		2483.6	50.97	-3.03	54	38.41	27.47	15.91	30.82	143	97	A	H
	*	2472	90.27	-	-	77.73	27.47	15.89	30.82	326	42	P	V
	*	2472	82.74	-	-	70.2	27.47	15.89	30.82	326	42	A	V
		2483.64	63.07	-10.93	74	50.51	27.47	15.91	30.82	326	42	P	V
		2483.52	50.29	-3.71	54	37.73	27.47	15.91	30.82	326	42	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz

WIFI 802.11n HT20 (Harmonic @ 3m)

WIFI	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	38.46	-35.54	74	56.72	31.3	8.5	58.06	100	0	P	H
		4824	39.15	-34.85	74	57.41	31.3	8.5	58.06	100	0	P	V
802.11n HT20 CH 06 2437MHz		4874	39.45	-34.55	74	57.6	31.3	8.65	58.1	100	0	P	H
		7311	56.65	-17.35	74	67.52	36.2	11.27	58.34	106	185	P	H
		7311	45.87	-8.13	54	56.74	36.2	11.27	58.34	106	185	A	H
		4874	40.01	-33.99	74	58.16	31.3	8.65	58.1	100	0	P	V
		7311	49.36	-24.64	74	60.23	36.2	11.27	58.34	100	0	P	V
802.11n HT20 CH 11 2462MHz		4924	40.19	-33.81	74	58.16	31.37	8.8	58.14	100	0	P	H
		7386	52.7	-21.3	74	63.24	36.5	11.28	58.32	100	184	P	H
		7386	42.44	-11.56	54	52.98	36.5	11.28	58.32	100	184	A	H
		4924	39.02	-34.98	74	56.99	31.37	8.8	58.14	100	0	P	V
		7386	46.03	-27.97	74	56.57	36.5	11.28	58.32	100	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



WIFI	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 12 2467MHz		4934	39.73	-34.27	74	57.68	31.37	8.83	58.15	100	0	P	H
		7401	48.73	-25.27	74	59.24	36.53	11.28	58.32	100	0	P	H
		4934	39.06	-34.94	74	57.01	31.37	8.83	58.15	100	0	P	V
		7401	46.89	-27.11	74	57.4	36.53	11.28	58.32	100	0	P	V
802.11n HT20 CH 13 2472MHz		4944	38.98	-35.02	74	56.89	31.4	8.85	58.16	100	0	P	H
		7416	45.87	-28.13	74	56.36	36.53	11.3	58.32	100	0	P	H
		4944	39.29	-34.71	74	57.2	31.4	8.85	58.16	100	0	P	V
		7416	45.45	-28.55	74	55.94	36.53	11.3	58.32	100	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

**2.4GHz 2400~2483.5MHz****Emission below 1GHz****2.4GHz WIFI 802.11n HT20 (LF)**

WIFI	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
2.4GHz 802.11n HT20 LF		52.95	18.92	-21.08	40	37.49	13.1	0.92	32.59	-	-	P	H
		86.16	21.59	-18.41	40	38.77	14.12	1.23	32.53	100	0	P	H
		162.57	20.76	-22.74	43.5	35.35	16.22	1.69	32.5	-	-	P	H
		489	25.1	-20.9	46	31.22	23.74	2.71	32.57	-	-	P	H
		561.8	27.28	-18.72	46	30.67	26.22	2.98	32.59	-	-	P	H
		622.7	27.44	-18.56	46	30.88	26.01	3.1	32.55	-	-	P	H
		52.95	23.86	-16.14	40	42.43	13.1	0.92	32.59	-	-	P	V
		91.83	22.7	-20.8	43.5	39.01	14.94	1.27	32.52	-	-	P	V
		135.03	17.59	-25.91	43.5	31.18	17.44	1.47	32.5	-	-	P	V
		505.8	25.3	-20.7	46	31.14	23.96	2.77	32.57	-	-	P	V
		562.5	26.35	-19.65	46	29.78	26.18	2.98	32.59	-	-	P	V
		763.4	30.88	-15.12	46	31.55	28.23	3.37	32.27	100	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against limit line.												



Note symbol

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



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

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

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

For Peak Limit @ 2390MHz:

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

For Average Limit @ 2390MHz:

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

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



Appendix D. Radiated Spurious Emission Plots

Test Engineer :	Watt Tseng, Karl Hou, and Bigshow Wang	Temperature :	24~26°C
		Relative Humidity :	47~58%

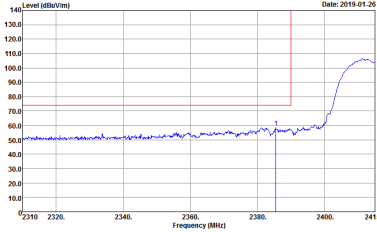
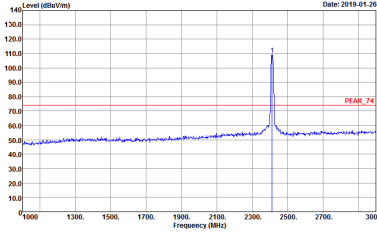
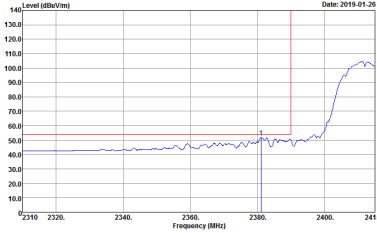
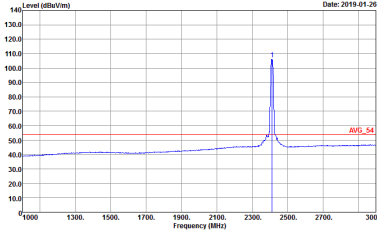
Note symbol

-L	Low channel location
-R	High channel location

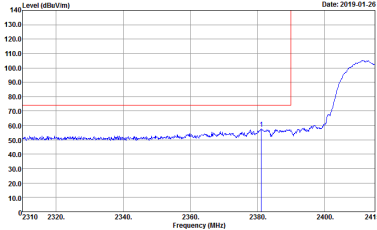
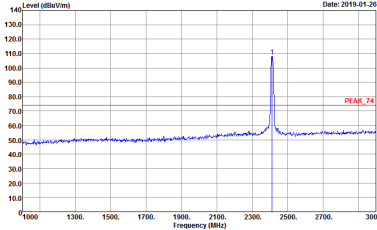
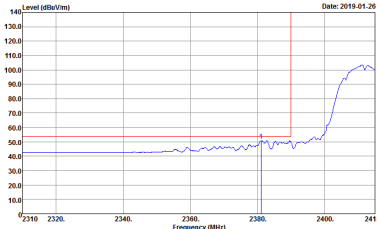
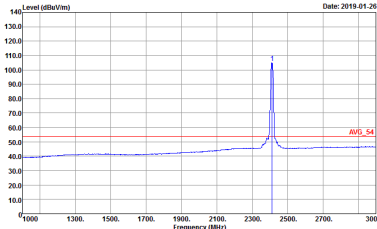


2.4GHz 2400~2483.5MHz

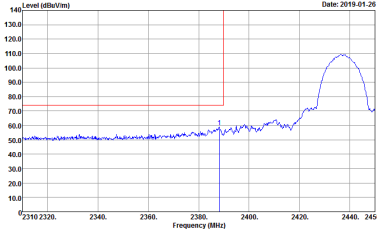
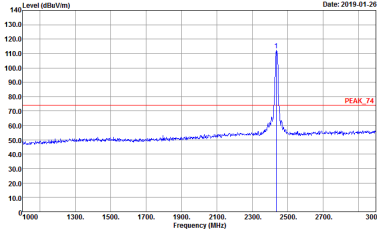
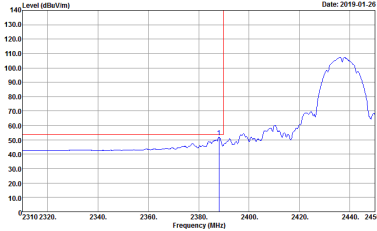
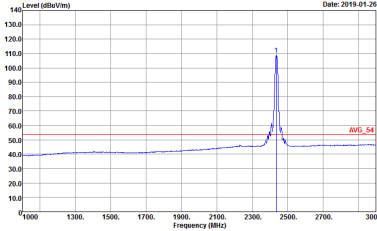
WIFI 802.11b (Band Edge @ 3m)

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
	802.11b CH01 2412MHz	
	Horizontal	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_15_1620 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 800112-01 Mode : 7 Setting : 78	 Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 800112-01 Mode : 7 Setting : 78
Avg.	 Site : 03CH15-HY Condition : AV6_BE_54 3m 91200_15_1620 HORIZONTAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 800112-01 Mode : 7 Setting : 78	 Site : 03CH15-HY Condition : AV6_54 3m 91200_15_1620 HORIZONTAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 800112-01 Mode : 7 Setting : 78

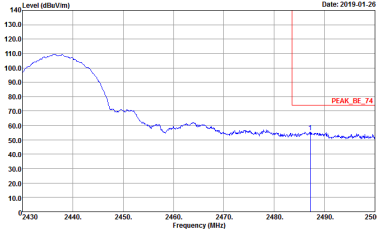
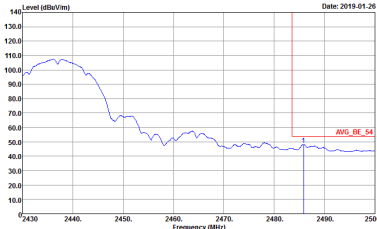


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
	802.11b CH01 2412MHz	
	Vertical	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_15_1620 VERTICAL Detector : Peak Project : 800112-01 Mode : 7 Setting : 78	 Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 VERTICAL Detector : Peak Project : 800112-01 Mode : 7 Setting : 78
Avg.	 Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_15_1620 VERTICAL Detector : Peak Project : 800112-01 Mode : 7 Setting : 78	 Site : 03CH15-HY Condition : AVG_54 3m 91200_15_1620 VERTICAL Detector : Peak Project : 800112-01 Mode : 7 Setting : 78

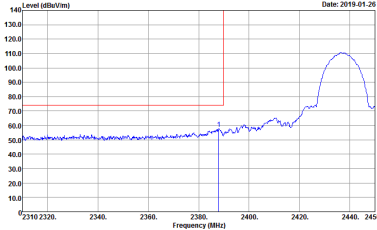
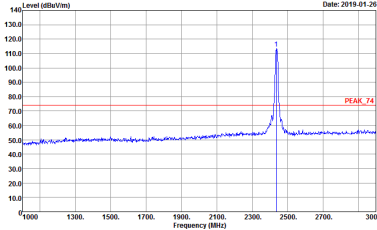
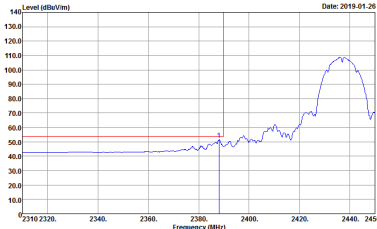
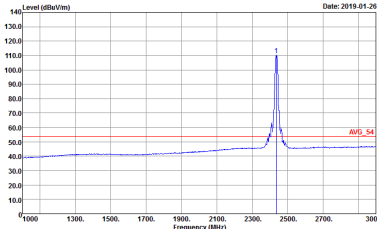


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
	802.11b CH06 2437MHz - L	
	Horizontal	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_15_1620 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 800112-01 Mode : B Setting : 82	 Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 800112-01 Mode : B Setting : 82
Avg.	 Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_15_1620 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 800112-01 Mode : B Setting : 82	 Site : 03CH15-HY Condition : AVG_54 3m 91200_15_1620 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 800112-01 Mode : B Setting : 82

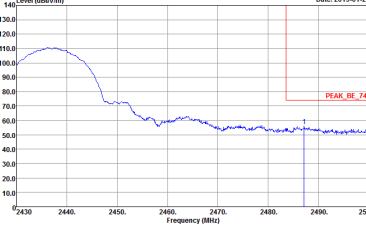
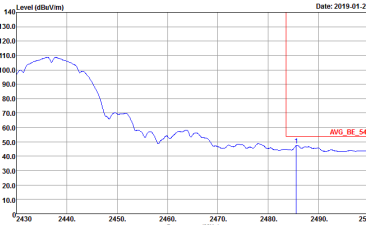


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
	802.11b CH06 2437MHz - R	
	Horizontal	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_15_1620 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 800112-01 Mode : B Setting : B2	Left blank
Avg.	 Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_15_1620 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 800112-01 Mode : B Setting : B2	Left blank



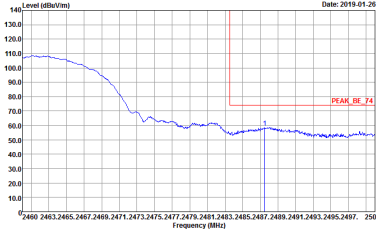
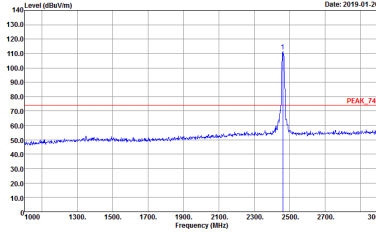
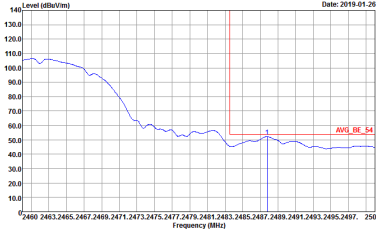
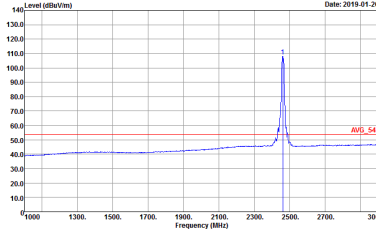
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
	802.11b CH06 2437MHz - L	
	Vertical	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_15_1620 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 800112-01 Mode : 8 Setting : 82	 Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 800112-01 Mode : 8 Setting : 82
Avg.	 Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_15_1620 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 800112-01 Mode : 8 Setting : 82	 Site : 03CH15-HY Condition : AVG_54 3m 91200_15_1620 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 800112-01 Mode : 8 Setting : 82



WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
	802.11b CH06 2437MHz - R	
	Vertical	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_15_1620 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 800112-01 Mode : B Setting : B2	Left blank
Avg.	 Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_15_1620 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 800112-01 Mode : B Setting : B2	Left blank



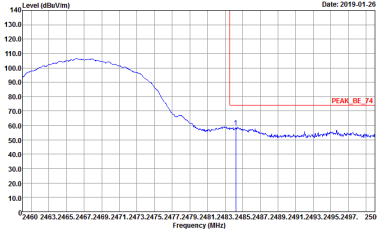
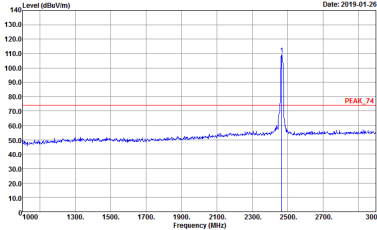
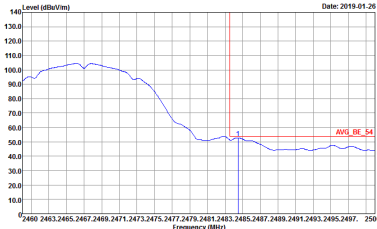
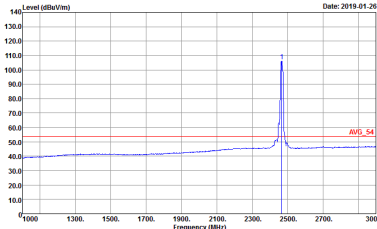
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
	802.11b CH11 2462MHz	
	Horizontal	Fundamental
Peak	Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_15_1620 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 800112-01 Mode : 9 Setting : 79	Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 800112-01 Mode : 9 Setting : 79
Avg.	Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_15_1620 HORIZONTAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 800112-01 Mode : 9 Setting : 79	Site : 03CH15-HY Condition : AVG_54 3m 91200_15_1620 HORIZONTAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 800112-01 Mode : 9 Setting : 79

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
	802.11b CH11 2462MHz	
	Vertical	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_15_1620 VERTICAL Detector : Peak Project : 800112-01 Mode : 9 Setting : 79	 Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 VERTICAL Detector : Peak Project : 800112-01 Mode : 9 Setting : 79
Avg.	 Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_15_1620 VERTICAL Detector : Peak Project : 800112-01 Mode : 9 Setting : 79	 Site : 03CH15-HY Condition : AVG_54 3m 91200_15_1620 VERTICAL Detector : Peak Project : 800112-01 Mode : 9 Setting : 79



WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
	802.11b CH12 2467MHz	
	Horizontal	Fundamental
Peak	Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_15_1620 HORIZONTAL Detector : Peak Project : 800112-01 Mode : 30 Setting : 73	Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 HORIZONTAL Detector : Peak Project : 800112-01 Mode : 30 Setting : 73
Avg.	Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_15_1620 HORIZONTAL Detector : Peak Project : 800112-01 Mode : 30 Setting : 73	Site : 03CH15-HY Condition : AVG_54 3m 91200_15_1620 HORIZONTAL Detector : Peak Project : 800112-01 Mode : 30 Setting : 73

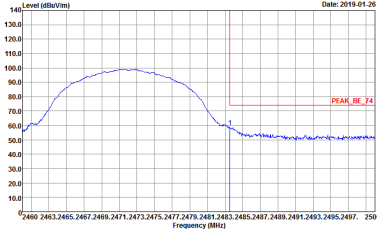
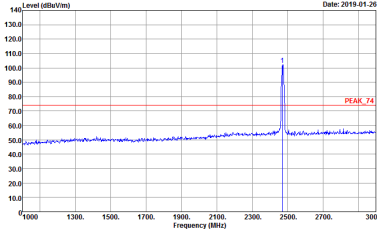
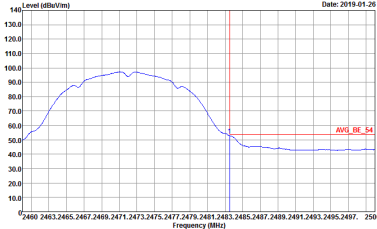
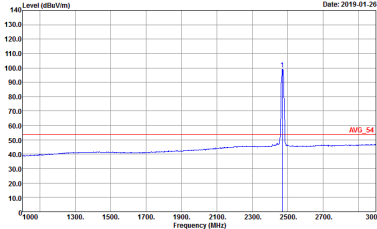


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
	802.11b CH12 2467MHz	
	Vertical	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_15_1620 VERTICAL Detector : Peak Project : 800112-01 Mode : 30 Setting : 73	 Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 VERTICAL Detector : Peak Project : 800112-01 Mode : 30 Setting : 73
Avg.	 Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_15_1620 VERTICAL Detector : Peak Project : 800112-01 Mode : 30 Setting : 73	 Site : 03CH15-HY Condition : AVG_54 3m 91200_15_1620 VERTICAL Detector : Peak Project : 800112-01 Mode : 30 Setting : 73



WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
	802.11b CH13 2472MHz	
	Horizontal	Fundamental
Peak	Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_15_1620 HORIZONTAL Detector : Peak Project : 800112-01 Mode : 11 Setting : 47	Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 HORIZONTAL Detector : Peak Project : 800112-01 Mode : 11 Setting : 47
Avg.	Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_15_1620 HORIZONTAL Detector : Peak Project : 800112-01 Mode : 11 Setting : 47	Site : 03CH15-HY Condition : AVG_54 3m 91200_15_1620 HORIZONTAL Detector : Peak Project : 800112-01 Mode : 11 Setting : 47

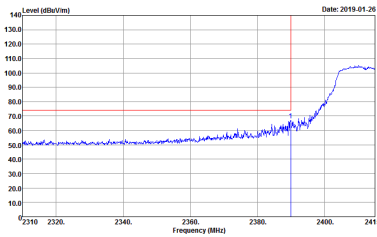
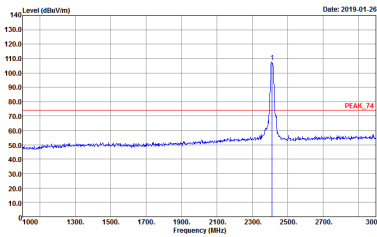
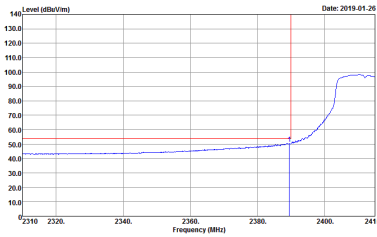
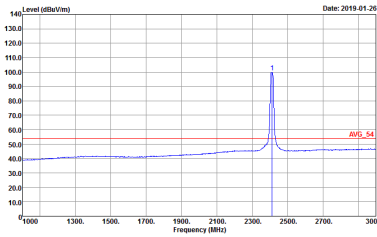


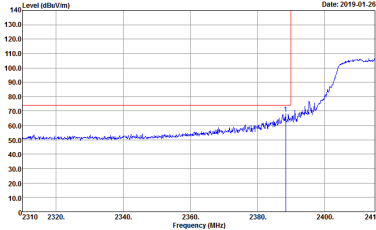
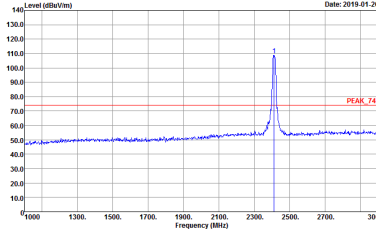
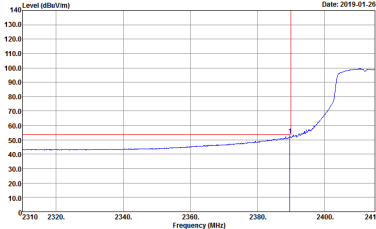
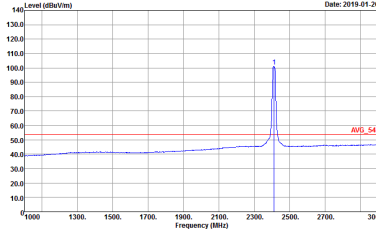
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
	802.11b CH13 2472MHz	
	Vertical	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_15_1620 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 800112-01 Mode : 11 Setting : 47	 Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 800112-01 Mode : 11 Setting : 47
Avg.	 Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_15_1620 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 800112-01 Mode : 11 Setting : 47	 Site : 03CH15-HY Condition : AVG_54 3m 91200_15_1620 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 800112-01 Mode : 11 Setting : 47



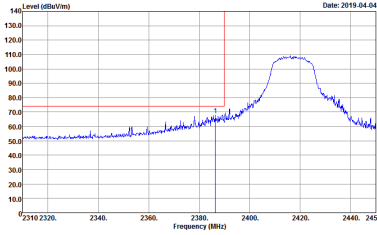
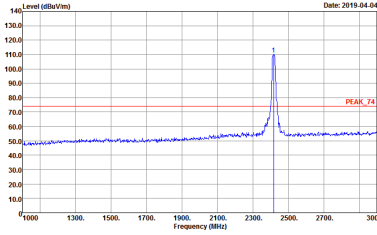
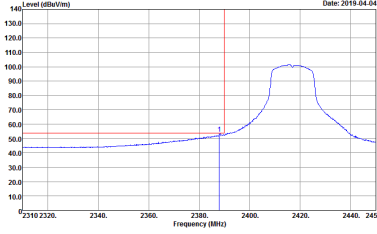
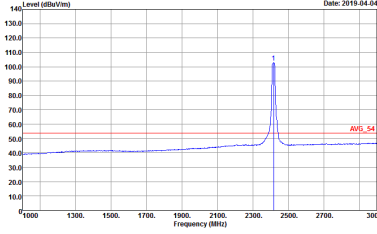
2.4GHz 2400~2483.5MHz

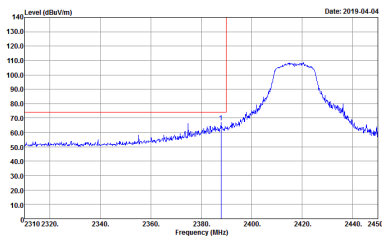
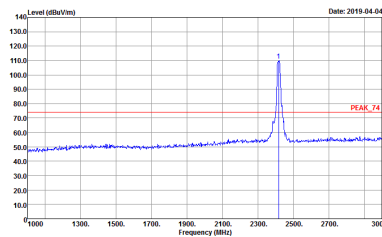
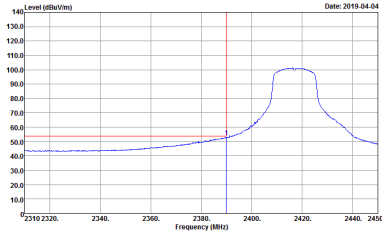
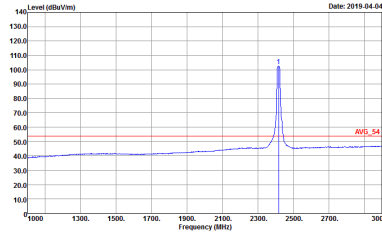
WIFI 802.11g (Band Edge @ 3m)

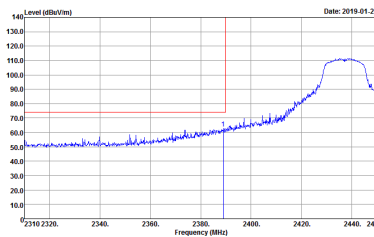
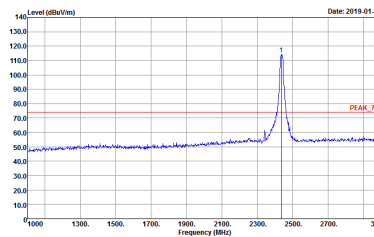
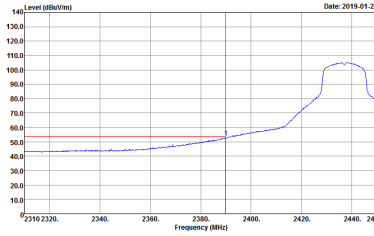
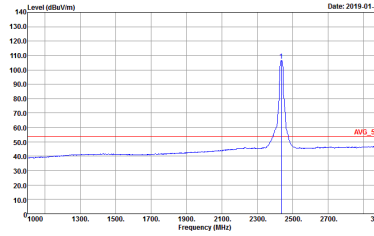
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
	802.11g CH01 2412MHz	
	Horizontal	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_15_1620 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 800112-01 Mode : 12 Setting : 64	 Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 800112-01 Mode : 12 Setting : 64
Avg.	 Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_15_1620 HORIZONTAL RBW:1000.000KHz VBW:1000KHz SWT:Auto Detector : Peak Project : 800112-01 Mode : 12 Setting : 64	 Site : 03CH15-HY Condition : AVG_54 3m 91200_15_1620 HORIZONTAL RBW:1000.000KHz VBW:1000KHz SWT:Auto Detector : Peak Project : 800112-01 Mode : 12 Setting : 64

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
	802.11g CH01 2412MHz	
	Vertical	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_15_1620 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 800112-01 Mode : 12 Setting : 64	 Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 800112-01 Mode : 12 Setting : 64
Avg.	 Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_15_1620 VERTICAL : RBW:1000.000KHz VBW:1000KHz SWT:Auto Detector : Peak Project : 800112-01 Mode : 12 Setting : 64	 Site : 03CH15-HY Condition : AVG_54 3m 91200_15_1620 VERTICAL : RBW:1000.000KHz VBW:1000KHz SWT:Auto Detector : Peak Project : 800112-01 Mode : 12 Setting : 64

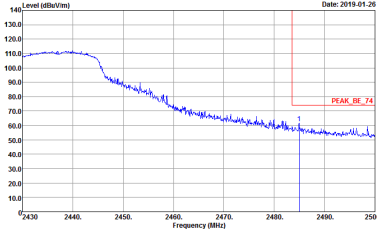
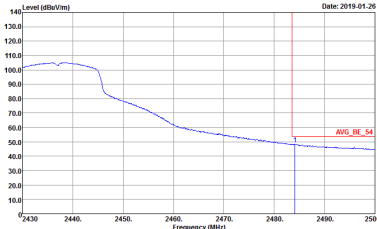


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
	802.11g CH02 2417MHz	
	Horizontal	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_15_1620 HORIZONTAL Detector : Peak Project : 800112-01 Mode : 25 Setting : 72	 Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 HORIZONTAL Detector : Peak Project : 800112-01 Mode : 25 Setting : 72
Avg.	 Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_15_1620 HORIZONTAL Detector : Peak Project : 800112-01 Mode : 25 Setting : 72	 Site : 03CH15-HY Condition : AVG_54 3m 91200_15_1620 HORIZONTAL Detector : Peak Project : 800112-01 Mode : 25 Setting : 72

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
	802.11g CH02 2417MHz	
	Vertical	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_15_1620 VERTICAL Detector : Peak Project : 800112-01 Mode : 25 Setting : 72	 Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 VERTICAL Detector : Peak Project : 800112-01 Mode : 25 Setting : 72
Avg.	 Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_15_1620 VERTICAL Detector : Peak Project : 800112-01 Mode : 25 Setting : 72	 Site : 03CH15-HY Condition : AVG_54 3m 91200_15_1620 VERTICAL Detector : Peak Project : 800112-01 Mode : 25 Setting : 72

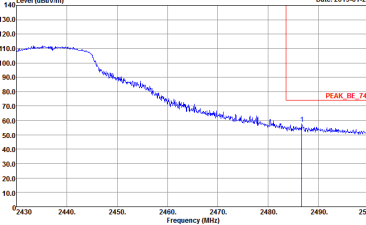
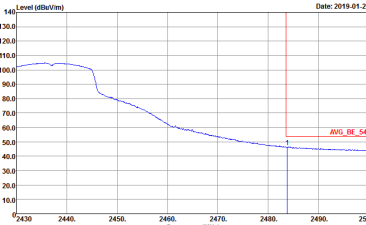
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
	802.11g CH06 2437MHz - L	
	Horizontal	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 800112-01 Mode : 13 Setting : 80	 Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 800112-01 Mode : 13 Setting : 80
Avg.	 Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:1000KHz SWT:Auto Detector : Peak Project : 800112-01 Mode : 13 Setting : 80	 Site : 03CH15-HY Condition : AVG_54 3m 91200_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:1000KHz SWT:Auto Detector : Peak Project : 800112-01 Mode : 13 Setting : 80

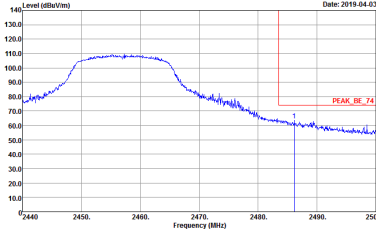
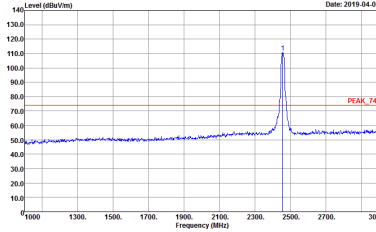
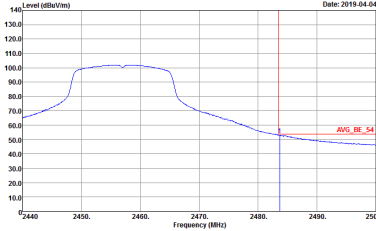
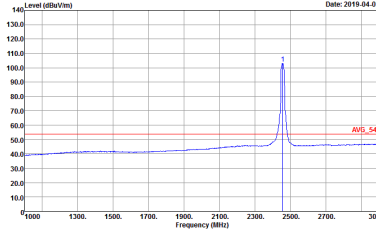


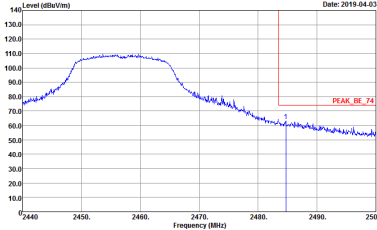
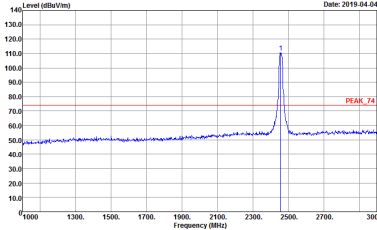
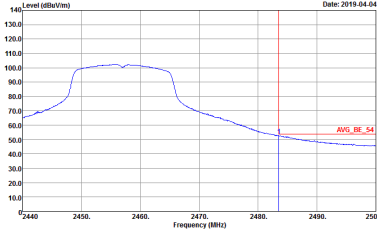
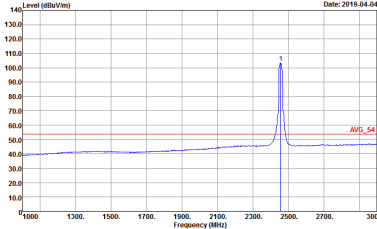
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
	802.11g CH06 2437MHz - R	
	Horizontal	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_15_1620 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 800112-01 Mode : 13 Setting : 80	Left blank
Avg.	 Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_15_1620 HORIZONTAL RBW:1000.000KHz VBW:1000KHz SWT:Auto Detector : Peak Project : 800112-01 Mode : 13 Setting : 80	Left blank

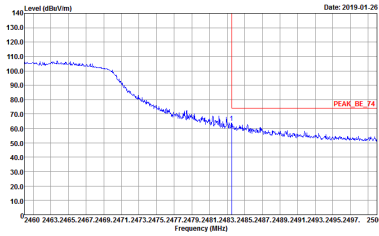
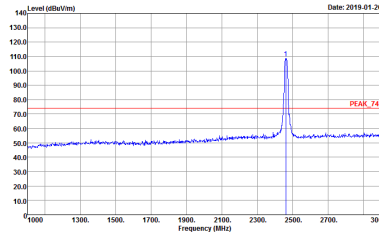
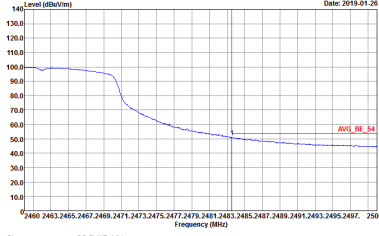
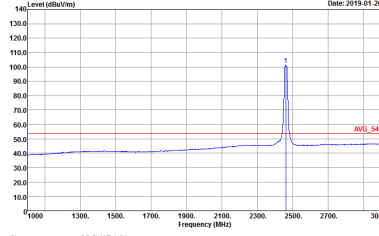


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
	802.11g CH06 2437MHz - L	
	Vertical	Fundamental
Peak	Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_15_1620 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 800112-01 Mode : 13 Setting : 80	Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 800112-01 Mode : 13 Setting : 80
Avg.	Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_15_1620 VERTICAL RBW:1000.000KHz VBW:1000KHz SWT:Auto Detector : Peak Project : 800112-01 Mode : 13 Setting : 80	Site : 03CH15-HY Condition : AVG_54 3m 91200_15_1620 VERTICAL RBW:1000.000KHz VBW:1000KHz SWT:Auto Detector : Peak Project : 800112-01 Mode : 13 Setting : 80

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
	802.11g CH06 2437MHz - R	
	Vertical	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_15_1620 VERTICAL Detector : Peak Project : 800112-01 Mode : 13 Setting : 80	Left blank
Avg.	 Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_15_1620 VERTICAL Detector : Peak Project : 800112-01 Mode : 13 Setting : 80	Left blank

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
	802.11g CH10 2457MHz	
	Horizontal	Fundamental
Peak	 Level (dBm/100kHz) vs Frequency (MHz) plot for Horizontal polarization. The plot shows a broad signal between 2440 and 2480 MHz, with a peak labeled 'PEAK_BE_74' at approximately 2483.5 MHz. The y-axis ranges from 10.0 to 140.0 dBm/100kHz, and the x-axis ranges from 2440 to 2500 MHz. Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_15_1620 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 800112-01 Mode : 26 Setting : 72	 Level (dBm/100kHz) vs Frequency (MHz) plot for Fundamental polarization. The plot shows a sharp peak labeled 'PEAK_74' at 2457 MHz. The y-axis ranges from 10.0 to 140.0 dBm/100kHz, and the x-axis ranges from 1000 to 3000 MHz. Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 800112-01 Mode : 26 Setting : 72
Avg.	 Level (dBm/100kHz) vs Frequency (MHz) plot for Horizontal polarization. The plot shows a broad signal between 2440 and 2480 MHz, with an average level labeled 'AVG_BE_54' at approximately 2483.5 MHz. The y-axis ranges from 10.0 to 140.0 dBm/100kHz, and the x-axis ranges from 2440 to 2500 MHz. Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_15_1620 HORIZONTAL RBW:1000.000KHz VBW:1000KHz SWT:Auto Detector : Peak Project : 800112-01 Mode : 26 Setting : 72	 Level (dBm/100kHz) vs Frequency (MHz) plot for Fundamental polarization. The plot shows a sharp peak labeled 'AVG_54' at 2457 MHz. The y-axis ranges from 10.0 to 140.0 dBm/100kHz, and the x-axis ranges from 1000 to 3000 MHz. Site : 03CH15-HY Condition : AVG_54 3m 91200_15_1620 HORIZONTAL RBW:1000.000KHz VBW:1000KHz SWT:Auto Detector : Peak Project : 800112-01 Mode : 26 Setting : 72

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
	802.11g CH10 2457MHz	
	Vertical	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_15_1620 VERTICAL Detector : Peak Project : 800112-01 Mode : 25 Setting : 72	 Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 VERTICAL Detector : Peak Project : 800112-01 Mode : 25 Setting : 72
Avg.	 Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_15_1620 VERTICAL Detector : Peak Project : 800112-01 Mode : 25 Setting : 72	 Site : 03CH15-HY Condition : AVG_54 3m 91200_15_1620 VERTICAL Detector : Peak Project : 800112-01 Mode : 25 Setting : 72

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
	802.11g CH11 2462MHz	
	Horizontal	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_15_1620 HORIZONTAL Detector : Peak Project : 800112-01 Mode : 14 Setting : 64	 Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 HORIZONTAL Detector : Peak Project : 800112-01 Mode : 14 Setting : 64
Avg.	 Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_15_1620 HORIZONTAL Detector : Peak Project : 800112-01 Mode : 14 Setting : 64	 Site : 03CH15-HY Condition : AVG_54 3m 91200_15_1620 HORIZONTAL Detector : Peak Project : 800112-01 Mode : 14 Setting : 64



WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
	802.11g CH11 2462MHz	
	Vertical	Fundamental
Peak	Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_15_1620 VERTICAL Detector : Peak Project : 800112-01 Mode : 14 Setting : 64	Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 VERTICAL Detector : Peak Project : 800112-01 Mode : 14 Setting : 64
Avg.	Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_15_1620 VERTICAL Detector : Peak Project : 800112-01 Mode : 14 Setting : 64	Site : 03CH15-HY Condition : AVG_54 3m 91200_15_1620 VERTICAL Detector : Peak Project : 800112-01 Mode : 14 Setting : 64

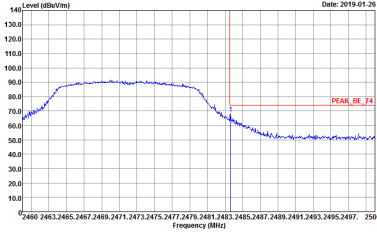
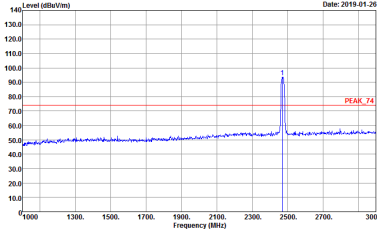
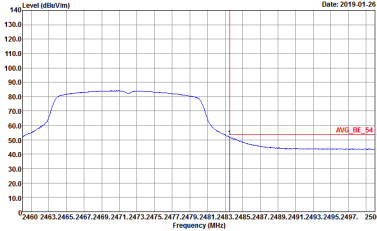
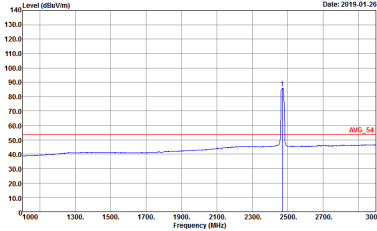


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
	802.11g CH12 2467MHz	
	Horizontal	Fundamental
Peak	Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_15_1620 HORIZONTAL Detector : Peak Project : 800112-01 Mode : 15 Setting : 54	Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 HORIZONTAL Detector : Peak Project : 800112-01 Mode : 15 Setting : 54
Avg.	Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_15_1620 HORIZONTAL Detector : Peak Project : 800112-01 Mode : 15 Setting : 54	Site : 03CH15-HY Condition : AVG_54 3m 91200_15_1620 HORIZONTAL Detector : Peak Project : 800112-01 Mode : 15 Setting : 54

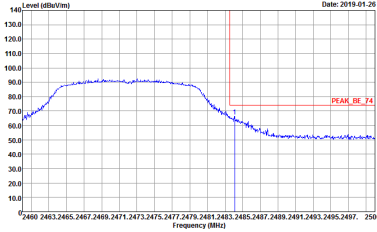
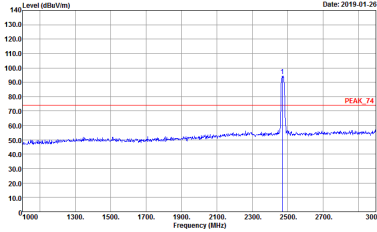
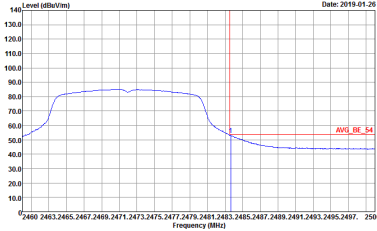
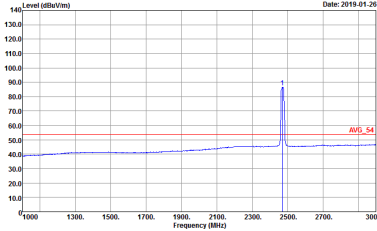


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
	802.11g CH12 2467MHz	
	Vertical	Fundamental
Peak	Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_15_1620 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 800112-01 Mode : 15 Setting : 54	Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 800112-01 Mode : 15 Setting : 54
Avg.	Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_15_1620 VERTICAL RBW:1000.000KHz VBW:1000KHz SWT:Auto Detector : Peak Project : 800112-01 Mode : 15 Setting : 54	Site : 03CH15-HY Condition : AVG_54 3m 91200_15_1620 VERTICAL RBW:1000.000KHz VBW:1000KHz SWT:Auto Detector : Peak Project : 800112-01 Mode : 15 Setting : 54



WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
	802.11g CH13 2472MHz	
	Horizontal	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_15_1620 HORIZONTAL Detector : Peak Project : 800112-01 Mode : 16 Setting : 25	 Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 HORIZONTAL Detector : Peak Project : 800112-01 Mode : 16 Setting : 25
Avg.	 Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_15_1620 HORIZONTAL Detector : Peak Project : 800112-01 Mode : 16 Setting : 25	 Site : 03CH15-HY Condition : AVG_54 3m 91200_15_1620 HORIZONTAL Detector : Peak Project : 800112-01 Mode : 16 Setting : 25

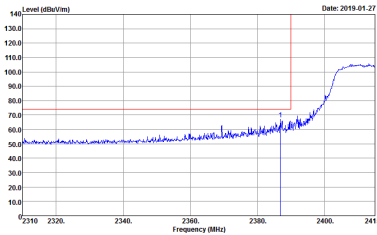
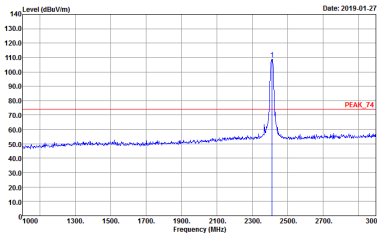
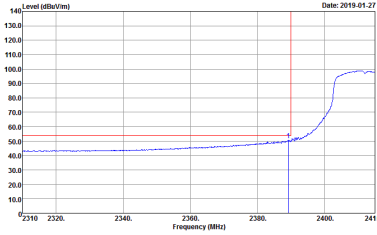
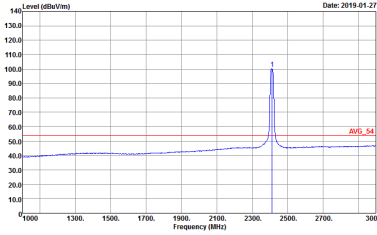


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
	802.11g CH13 2472MHz	
	Vertical	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_15_1620 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 800112-01 Mode : 16 Setting : 25	 Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 800112-01 Mode : 16 Setting : 25
Avg.	 Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_15_1620 VERTICAL RBW:1000.000KHz VBW:1000KHz SWT:Auto Detector : Peak Project : 800112-01 Mode : 16 Setting : 25	 Site : 03CH15-HY Condition : AVG_54 3m 91200_15_1620 VERTICAL RBW:1000.000KHz VBW:1000KHz SWT:Auto Detector : Peak Project : 800112-01 Mode : 16 Setting : 25

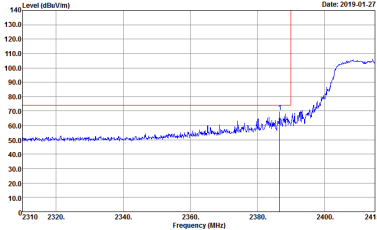
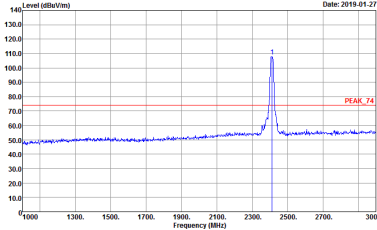
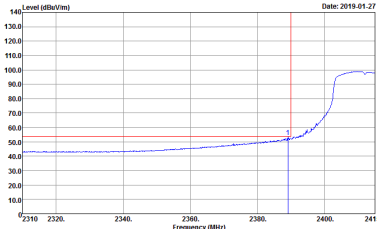
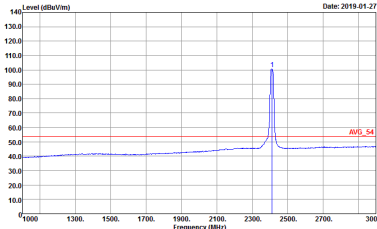


2.4GHz 2400~2483.5MHz

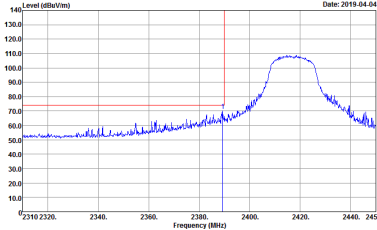
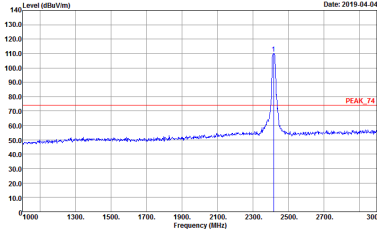
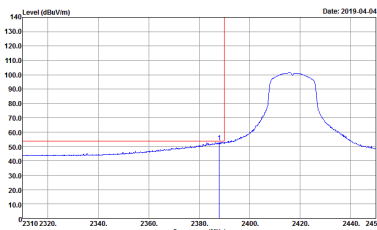
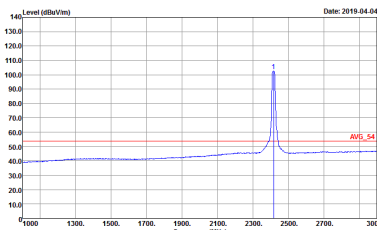
WIFI 802.11n HT20 (Band Edge @ 3m)

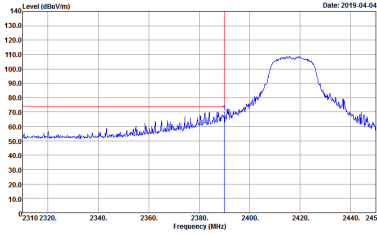
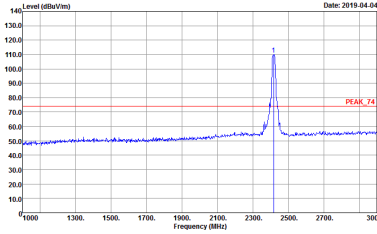
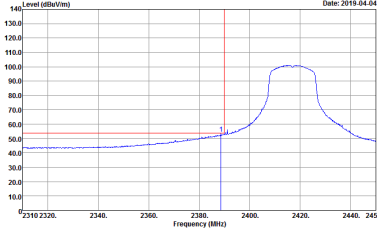
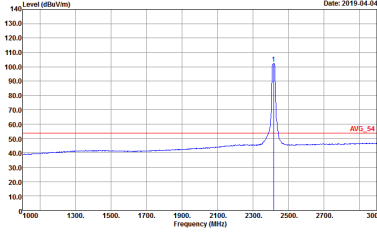
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
	802.11n HT20 CH01 2412MHz	
	Horizontal	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_15_1620 HORIZONTAL Detector : Peak Project : 800112-01 Mode : 17 Setting : 64	 Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 HORIZONTAL Detector : Peak Project : 800112-01 Mode : 17 Setting : 64
Avg.	 Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_15_1620 HORIZONTAL Detector : Peak Project : 800112-01 Mode : 17 Setting : 64	 Site : 03CH15-HY Condition : AVG_54 3m 91200_15_1620 HORIZONTAL Detector : Peak Project : 800112-01 Mode : 17 Setting : 64

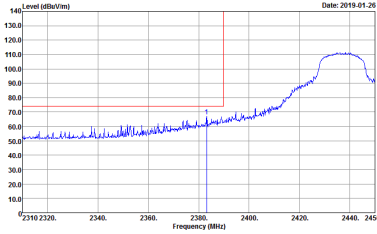
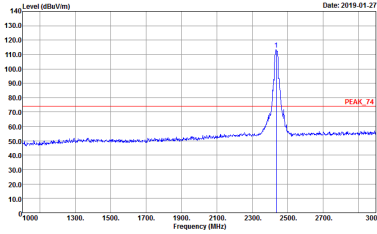
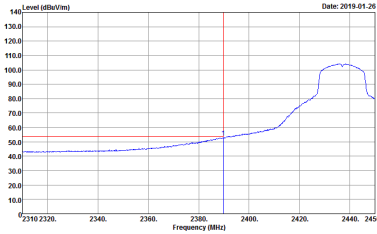
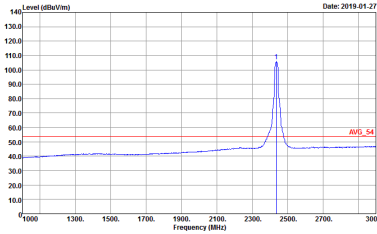


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
	802.11n HT20 CH01 2412MHz	
	Vertical	Fundamental
Peak	 Level (dBm/100kHz) vs Frequency (MHz) plot for Peak Vertical. The plot shows a rising signal level starting around 2380 MHz, reaching approximately 100 dBm/100kHz at 2412 MHz. A red vertical line marks the peak at 2412 MHz. Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_15_1620 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 800112-01 Mode : 17 Setting : 64	 Level (dBm/100kHz) vs Frequency (MHz) plot for Peak Fundamental. The plot shows a sharp peak at 2412 MHz, reaching approximately 100 dBm/100kHz. A red horizontal line marks the peak level at 74 dBm/100kHz. Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 800112-01 Mode : 17 Setting : 64
Avg.	 Level (dBm/100kHz) vs Frequency (MHz) plot for Avg Vertical. The plot shows a rising signal level starting around 2380 MHz, reaching approximately 100 dBm/100kHz at 2412 MHz. A red vertical line marks the peak at 2412 MHz. Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_15_1620 VERTICAL RBW:1000.000KHz VBW:1000KHz SWT:Auto Detector : Peak Project : 800112-01 Mode : 17 Setting : 64	 Level (dBm/100kHz) vs Frequency (MHz) plot for Avg Fundamental. The plot shows a sharp peak at 2412 MHz, reaching approximately 100 dBm/100kHz. A red horizontal line marks the peak level at 54 dBm/100kHz. Site : 03CH15-HY Condition : AVG_54 3m 91200_15_1620 VERTICAL RBW:1000.000KHz VBW:1000KHz SWT:Auto Detector : Peak Project : 800112-01 Mode : 17 Setting : 64

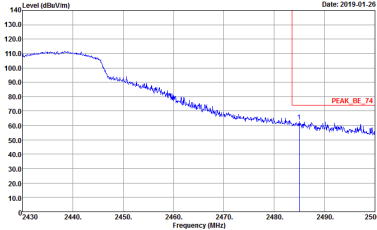
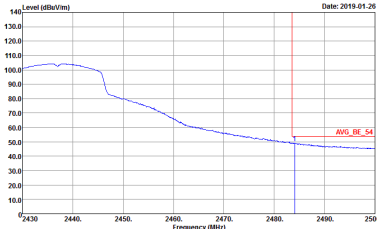


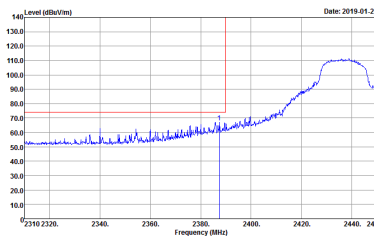
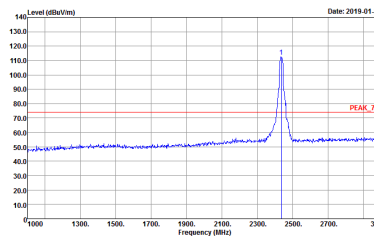
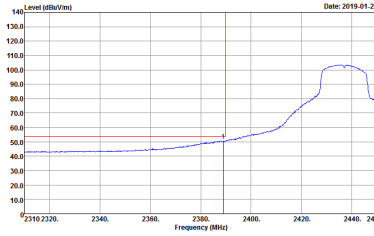
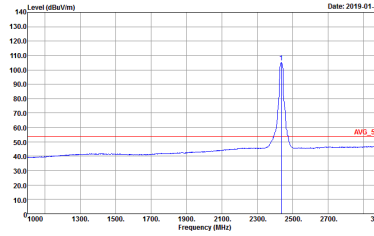
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
	802.11n HT20 CH02 2417MHz	
	Horizontal	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_15_1620 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 800112-01 Mode : 27 Setting : 69	 Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 800112-01 Mode : 27 Setting : 69
Avg.	 Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_15_1620 HORIZONTAL RBW:1000.000KHz VBW:1000KHz SWT:Auto Detector : Peak Project : 800112-01 Mode : 27 Setting : 69	 Site : 03CH15-HY Condition : AVG_54 3m 91200_15_1620 HORIZONTAL RBW:1000.000KHz VBW:1000KHz SWT:Auto Detector : Peak Project : 800112-01 Mode : 27 Setting : 69

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
	802.11n HT20 CH02 2417MHz	
	Vertical	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_15_1620 VERTICAL Detector : Peak Project : 800112-01 Mode : 27 Setting : 69	 Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 VERTICAL Detector : Peak Project : 800112-01 Mode : 27 Setting : 69
Avg.	 Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_15_1620 VERTICAL Detector : Peak Project : 800112-01 Mode : 27 Setting : 69	 Site : 03CH15-HY Condition : AVG_54 3m 91200_15_1620 VERTICAL Detector : Peak Project : 800112-01 Mode : 27 Setting : 69

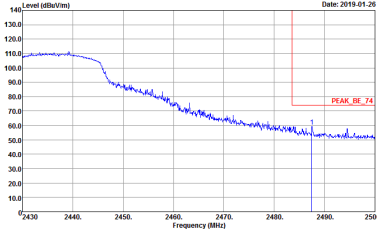
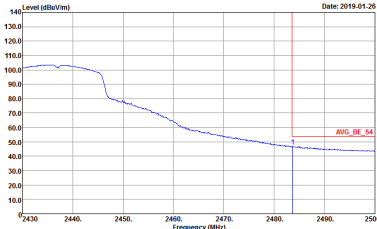
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
	802.11n HT20 CH06 2437MHz - L	
	Horizontal	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_15_1620 HORIZONTAL Detector : Peak Project : 800112-01 Mode : 18 Setting : 82	 Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 HORIZONTAL Detector : Peak Project : 800112-01 Mode : 18 Setting : 82
Avg.	 Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_15_1620 HORIZONTAL Detector : Peak Project : 800112-01 Mode : 18 Setting : 82	 Site : 03CH15-HY Condition : AVG_54 3m 91200_15_1620 HORIZONTAL Detector : Peak Project : 800112-01 Mode : 18 Setting : 82



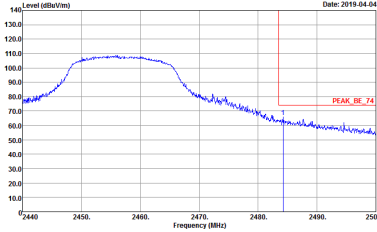
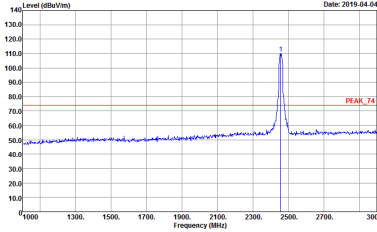
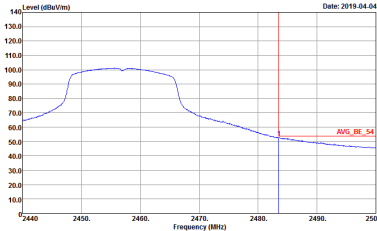
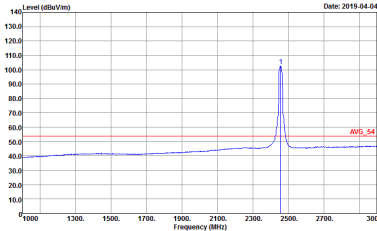
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
	802.11n HT20 CH06 2437MHz - R	
	Horizontal	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_15_1620 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 800112-01 Mode : 1B Setting : 82	Left blank
Avg.	 Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_15_1620 HORIZONTAL RBW:1000.000KHz VBW:1000KHz SWT:Auto Detector : Peak Project : 800112-01 Mode : 1B Setting : 82	Left blank

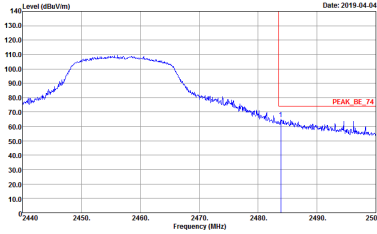
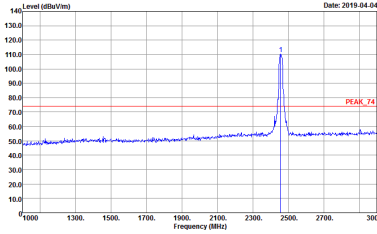
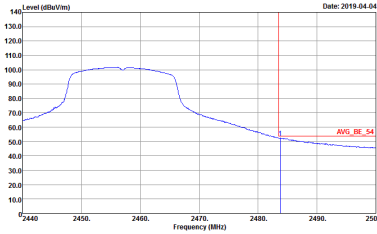
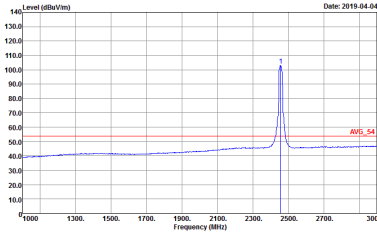
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
	802.11n HT20 CH06 2437MHz - L	
	Vertical	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_15_1620 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 800112-01 Mode : 1B Setting : 82	 Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 800112-01 Mode : 1B Setting : 82
Avg.	 Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_15_1620 VERTICAL : RBW:1000.000KHz VBW:1000KHz SWT:Auto Detector : Peak Project : 800112-01 Mode : 1B Setting : 82	 Site : 03CH15-HY Condition : AVG_54 3m 91200_15_1620 VERTICAL : RBW:1000.000KHz VBW:1000KHz SWT:Auto Detector : Peak Project : 800112-01 Mode : 1B Setting : 82



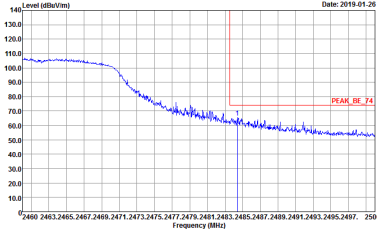
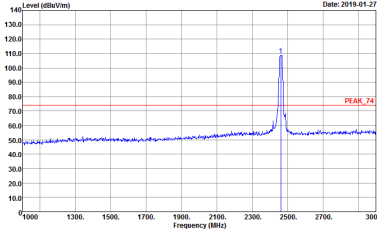
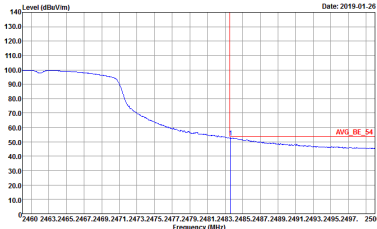
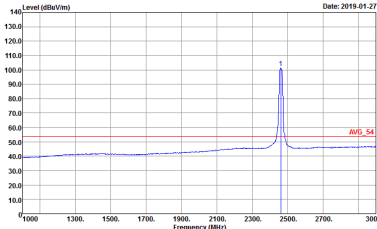
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
	802.11n HT20 CH06 2437MHz - R	
	Vertical	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_15_1620 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 800112-01 Mode : 1B Setting : 82	Left blank
Avg.	 Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_15_1620 VERTICAL RBW:1000.000KHz VBW:1000KHz SWT:Auto Detector : Peak Project : 800112-01 Mode : 1B Setting : 82	Left blank



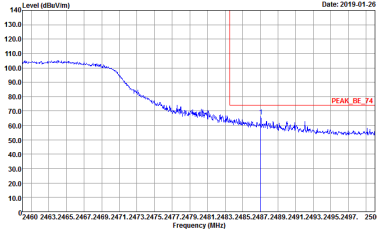
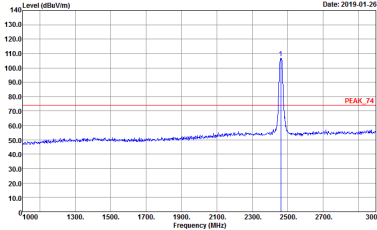
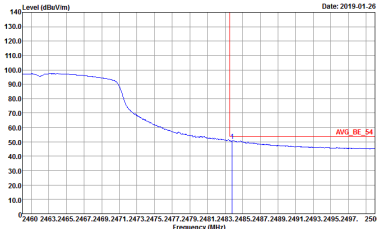
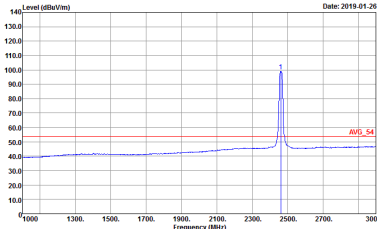
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
	802.11n HT20 CH10 2457MHz	
	Horizontal	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_15_1620 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 800112-01 Mode : 2B Setting : 72	 Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 800112-01 Mode : 2B Setting : 72
Avg.	 Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_15_1620 HORIZONTAL RBW:1000.000KHz VBW:1000KHz SWT:Auto Detector : Peak Project : 800112-01 Mode : 2B Setting : 72	 Site : 03CH15-HY Condition : AVG_54 3m 91200_15_1620 HORIZONTAL RBW:1000.000KHz VBW:1000KHz SWT:Auto Detector : Peak Project : 800112-01 Mode : 2B Setting : 72

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
	802.11n HT20 CH10 2457MHz	
	Vertical	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_15_1620 VERTICAL Detector : Peak Project : 800112-01 Mode : 28 Setting : 72	 Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 VERTICAL Detector : Peak Project : 800112-01 Mode : 28 Setting : 72
Avg.	 Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_15_1620 VERTICAL Detector : Peak Project : 800112-01 Mode : 28 Setting : 72	 Site : 03CH15-HY Condition : AVG_54 3m 91200_15_1620 VERTICAL Detector : Peak Project : 800112-01 Mode : 28 Setting : 72

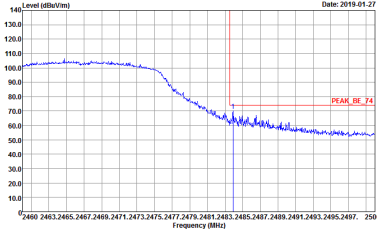
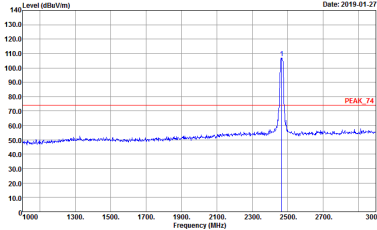
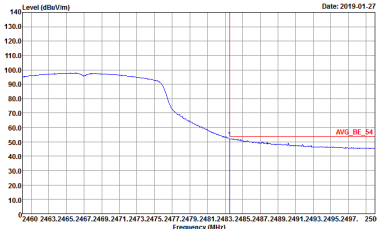
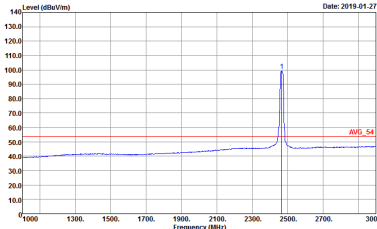


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
	802.11n HT20 CH11 2462MHz	
	Horizontal	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_15_1620 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 800112-01 Mode : 19 Setting : 63	 Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 800112-01 Mode : 19 Setting : 63
Avg.	 Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_15_1620 HORIZONTAL RBW:1000.000KHz VBW:1000KHz SWT:Auto Detector : Peak Project : 800112-01 Mode : 19 Setting : 63	 Site : 03CH15-HY Condition : AVG_54 3m 91200_15_1620 HORIZONTAL RBW:1000.000KHz VBW:1000KHz SWT:Auto Detector : Peak Project : 800112-01 Mode : 19 Setting : 63



WIFI	2.4GHz 2400~2483.5MHz Fundamental @ 3m	
	802.11n HT20 CH11 2462MHz	
	Vertical	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_15_1620 VERTICAL Detector : Peak Project : 800112-01 Mode : 19 Setting : 63	 Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 VERTICAL Detector : Peak Project : 800112-01 Mode : 19 Setting : 63
Avg.	 Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_15_1620 VERTICAL Detector : Peak Project : 800112-01 Mode : 19 Setting : 63	 Site : 03CH15-HY Condition : AVG_54 3m 91200_15_1620 VERTICAL Detector : Peak Project : 800112-01 Mode : 19 Setting : 63

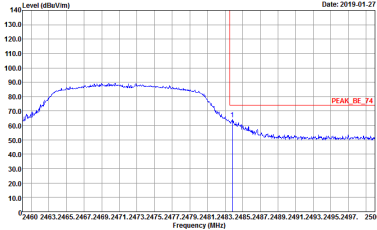
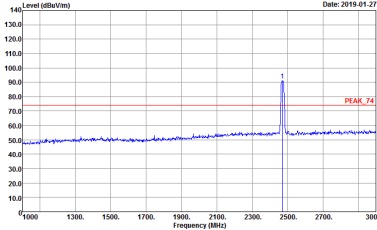
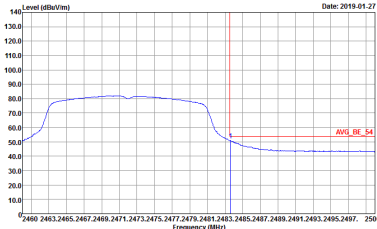
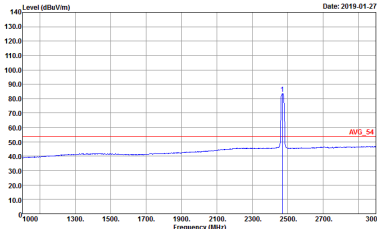


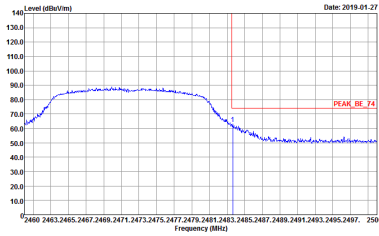
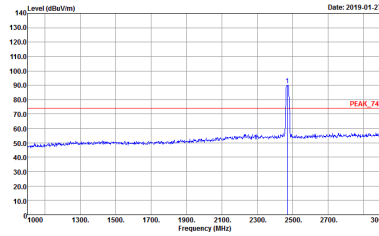
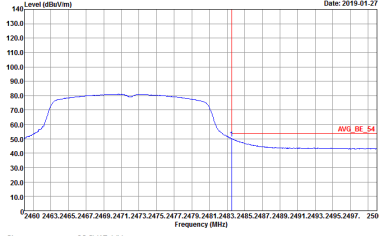
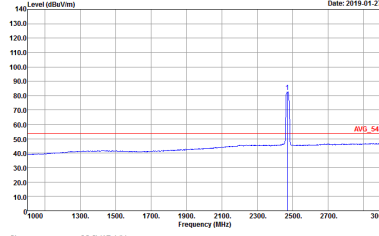
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
	802.11n HT20 CH12 2467MHz	
	Horizontal	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_15_1620 HORIZONTAL Detector : Peak Project : 800112-01 Mode : 20 Setting : 58	 Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 HORIZONTAL Detector : Peak Project : 800112-01 Mode : 20 Setting : 58
Avg.	 Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_15_1620 HORIZONTAL Detector : Peak Project : 800112-01 Mode : 20 Setting : 58	 Site : 03CH15-HY Condition : AVG_54 3m 91200_15_1620 HORIZONTAL Detector : Peak Project : 800112-01 Mode : 20 Setting : 58



WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
	802.11n HT20 CH12 2467MHz	
	Vertical	Fundamental
Peak	Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_15_1620 VERTICAL Detector : Peak Project : 800112-01 Mode : 20 Setting : 58	Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 VERTICAL Detector : Peak Project : 800112-01 Mode : 20 Setting : 58
Avg.	Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_15_1620 VERTICAL Detector : Peak Project : 800112-01 Mode : 20 Setting : 58	Site : 03CH15-HY Condition : AVG_54 3m 91200_15_1620 VERTICAL Detector : Peak Project : 800112-01 Mode : 20 Setting : 58



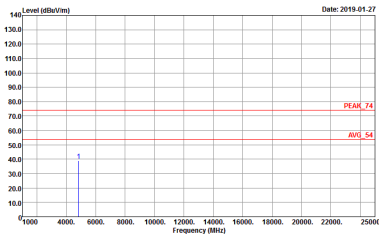
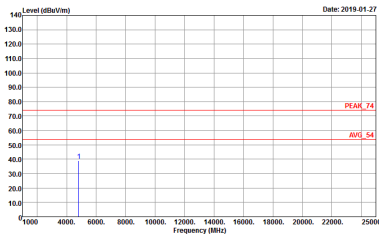
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
	802.11n HT20 CH13 2472MHz	
	Horizontal	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_15_1620 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 800112-01 Mode : Z1 Setting : Z4	 Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 800112-01 Mode : Z1 Setting : Z4
Avg.	 Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_15_1620 HORIZONTAL RBW:1000.000KHz VBW:1000KHz SWT:Auto Detector : Peak Project : 800112-01 Mode : Z1 Setting : Z4	 Site : 03CH15-HY Condition : AVG_54 3m 91200_15_1620 HORIZONTAL RBW:1000.000KHz VBW:1000KHz SWT:Auto Detector : Peak Project : 800112-01 Mode : Z1 Setting : Z4

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
	802.11n HT20 CH13 2472MHz	
	Vertical	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_15_1620 VERTICAL Detector : Peak Project : 800112-01 Mode : Z1 Setting : Z4	 Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 VERTICAL Detector : Peak Project : 800112-01 Mode : Z1 Setting : Z4
Avg.	 Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_15_1620 VERTICAL Detector : Peak Project : 800112-01 Mode : Z1 Setting : Z4	 Site : 03CH15-HY Condition : AVG_54 3m 91200_15_1620 VERTICAL Detector : Peak Project : 800112-01 Mode : Z1 Setting : Z4



2.4GHz 2400~2483.5MHz

WIFI 802.11b (Harmonic @ 3m)

WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
	802.11b CH01 2412MHz	
	Horizontal	Vertical
Peak Avg.	 Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 HORIZONTAL Detector : Peak Project : 800112-01 Mode : 7	 Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 VERTICAL Detector : Peak Project : 800112-01 Mode : 7



WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
	802.11b CH06 2437MHz	
	Horizontal	Vertical
Peak Avg.	Level (dBuV/m) Date: 2019-01-27 Site : 03CH15-11Y Condition : PEAK_74 3m 91200_15_1620 HORIZONTAL Detector : Peak Project : 800112-01 Mode : 8	Level (dBuV/m) Date: 2019-01-27 Site : 03CH15-11Y Condition : PEAK_74 3m 91200_15_1620 VERTICAL Detector : Peak Project : 800112-01 Mode : 8



WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
	802.11b CH11 2462MHz	
	Horizontal	Vertical
Peak Avg.	Level (dBuV/m) Date: 2019-01-27 Site : 03CH15-14Y Condition : PEAK_74 3m 91200_15_1620 HORIZONTAL Detector : Peak Project : 800112-01 Mode : 9	Level (dBuV/m) Date: 2019-01-27 Site : 03CH15-14Y Condition : PEAK_74 3m 91200_15_1620 VERTICAL Detector : Peak Project : 800112-01 Mode : 9



WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
	802.11b CH12 2467MHz	
	Horizontal	Vertical
Peak Avg.	Level (dBuV/m) Date: 2019-01-27 Frequency (MHz) Site : 03CH15-11Y Condition : PEAK_74 3m 91200_15_1620 HORIZONTAL Detector : Peak Project : 800112-01 Mode : 10	Level (dBuV/m) Date: 2019-01-27 Frequency (MHz) Site : 03CH15-11Y Condition : PEAK_74 3m 91200_15_1620 VERTICAL Detector : Peak Project : 800112-01 Mode : 10

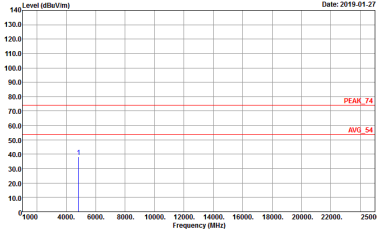
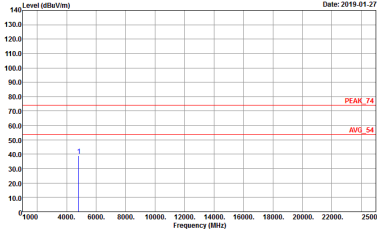


WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
	802.11b CH13 2472MHz	
	Horizontal	Vertical
Peak Avg.	Level (dBuV/m) Date: 2019-01-27 Site : 03CH15-11Y Condition : PEAK_74 3m 91200_15_1620 HORIZONTAL Detector : Peak Project : 800112-01 Mode : 11	Level (dBuV/m) Date: 2019-01-27 Site : 03CH15-11Y Condition : PEAK_74 3m 91200_15_1620 VERTICAL Detector : Peak Project : 800112-01 Mode : 11



2.4GHz 2400~2483.5MHz

WIFI 802.11g (Harmonic @ 3m)

WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
	802.11g CH01 2412MHz	
	Horizontal	Vertical
Peak Avg.	 Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 HORIZONTAL Detector : Peak Project : 800112-01 Mode : 12	 Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 VERTICAL Detector : Peak Project : 800112-01 Mode : 12



WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
	802.11g CH06 2437MHz	
	Horizontal	Vertical
Peak Avg.	Level (dBuV/m) Date: 2019-01-27 Site : 03CH15-11Y Condition : PEAK_74 3m 91200_15_1620 HORIZONTAL Detector : Peak Project : 800112-01 Mode : 13	Level (dBuV/m) Date: 2019-01-27 Site : 03CH15-11Y Condition : PEAK_74 3m 91200_15_1620 VERTICAL Detector : Peak Project : 800112-01 Mode : 13



WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
	802.11g CH11 2462MHz	
	Horizontal	Vertical
Peak Avg.	Level (dBu/V/m) Date: 2019-01-27 Site : 03CH15-11Y Condition : PEAK_74 3m 91200_15_1620 HORIZONTAL Detector : Peak Project : 800112-01 Mode : 14	Level (dBu/V/m) Date: 2019-01-27 Site : 03CH15-11Y Condition : PEAK_74 3m 91200_15_1620 VERTICAL Detector : Peak Project : 800112-01 Mode : 14



WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
	802.11g CH12 2467MHz	
	Horizontal	Vertical
Peak Avg.	Level (dBuV/m) Date: 2019-01-27 Frequency (MHz) Site : 03CH15-11Y Condition : PEAK_74 3m 91200_15_1620 HORIZONTAL Detector : Peak Project : 800112-01 Mode : 15	Level (dBuV/m) Date: 2019-01-27 Frequency (MHz) Site : 03CH15-11Y Condition : PEAK_74 3m 91200_15_1620 VERTICAL Detector : Peak Project : 800112-01 Mode : 15

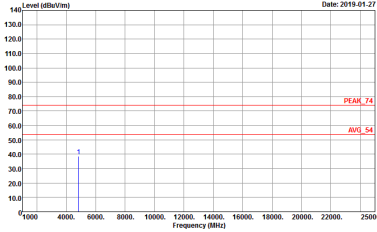
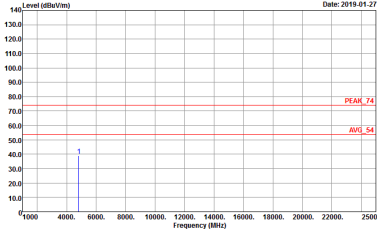


WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
	802.11g CH13 2472MHz	
	Horizontal	Vertical
Peak Avg.	Level (dBuV/m) Date: 2019-01-27 Site : 03CH15-11Y Condition : PEAK_74 3m 91200_15_1620 HORIZONTAL Detector : Peak Project : 800112-01 Mode : 16	Level (dBuV/m) Date: 2019-01-27 Site : 03CH15-11Y Condition : PEAK_74 3m 91200_15_1620 VERTICAL Detector : Peak Project : 800112-01 Mode : 16



2.4GHz 2400~2483.5MHz

WIFI 802.11n HT20 (Harmonic @ 3m)

WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
	802.11n HT20 CH01 2412MHz	
	Horizontal	Vertical
Peak Avg.	 Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 HORIZONTAL Detector : Peak Project : 800112-01 Mode : 17	 Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 VERTICAL Detector : Peak Project : 800112-01 Mode : 17



WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
	802.11n HT20 CH06 2437MHz	
	Horizontal	Vertical
Peak Avg.	Level (dBuV/m) Date: 2019-01-27 PEAK_74 Avg_54 Site : 03CH15-11Y Condition : PEAK_74 3m 91200_15_1620 HORIZONTAL Detector : Peak Project : 800112-01 Mode : 18	Level (dBuV/m) Date: 2019-01-27 PEAK_74 Avg_54 Site : 03CH15-11Y Condition : PEAK_74 3m 91200_15_1620 VERTICAL Detector : Peak Project : 800112-01 Mode : 18



WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
	802.11n HT20 CH11 2462MHz	
	Horizontal	Vertical
Peak Avg.	Level (dBuV/m) Date: 2019-01-27 Frequency (MHz) Site : 03CH15-11Y Condition : PEAK_74 3m 91200_15_1620 HORIZONTAL Detector : Peak Project : 800112-01 Mode : 19	Level (dBuV/m) Date: 2019-01-27 Frequency (MHz) Site : 03CH15-11Y Condition : PEAK_74 3m 91200_15_1620 VERTICAL Detector : Peak Project : 800112-01 Mode : 19



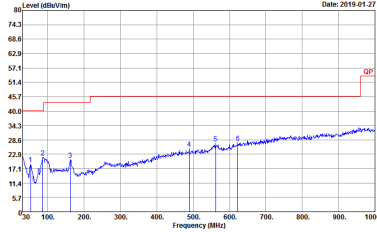
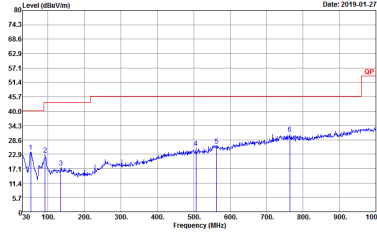
WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
	802.11n HT20 CH12 2462MHz	
	Horizontal	Vertical
Peak Avg.	Level (dBuV/m) Date: 2019-01-27 Site : 03CH15-11Y Condition : PEAK_74 3m 91200_15_1620 HORIZONTAL Detector : Peak Project : 800112-01 Mode : 20	Level (dBuV/m) Date: 2019-01-27 Site : 03CH15-11Y Condition : PEAK_74 3m 91200_15_1620 VERTICAL Detector : Peak Project : 800112-01 Mode : 20



WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
	802.11n HT20 CH13 2472MHz	
	Horizontal	Vertical
Peak Avg.	Level (dBuV/m) Date: 2019-01-27 Frequency (MHz) Site : 03CH15-11Y Condition : PEAK_74 3m 91200_15_1620 HORIZONTAL Detector : Peak Project : 800112-01 Mode : 21	Level (dBuV/m) Date: 2019-01-27 Frequency (MHz) Site : 03CH15-11Y Condition : PEAK_74 3m 91200_15_1620 VERTICAL Detector : Peak Project : 800112-01 Mode : 21



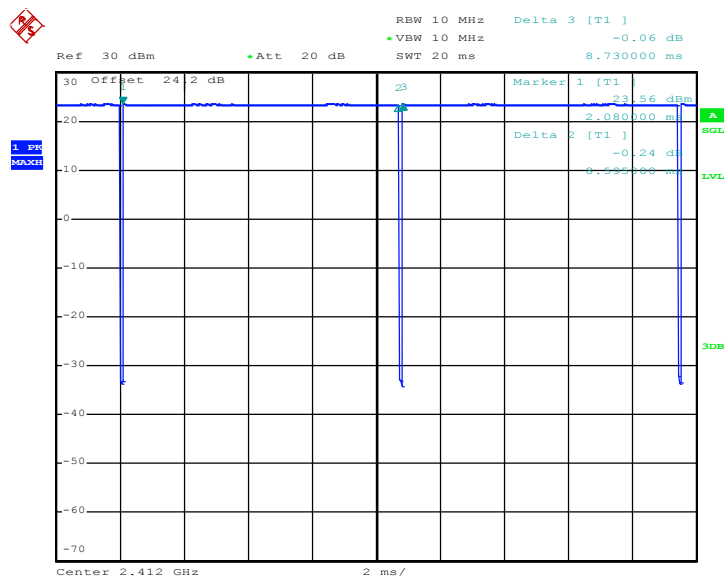
Emission below 1GHz
2.4GHz WIFI 802.11n HT20 (LF)

WIFI	2.4GHz 2400~2483.5MHz	
	802.11n HT20 LF	
	Horizontal	Vertical
QP / Peak	 Site : 03CH15-HY Condition : QP 3m BIL06_16_47020 HORIZONTAL Detector : Peak Project : 800112-01 Mode : 24	 Site : 03CH15-HY Condition : QP 3m BIL06_16_47020 VERTICAL Detector : Peak Project : 800112-01 Mode : 24

Appendix E. Duty Cycle Plots

Band	Duty Cycle (%)	T(us)	1/T(kHz)	VBW Setting	Duty Factor (dB)
802.11b	98.45	8595.00	0.12	10Hz	0.07
802.11g	93.46	1430.00	0.70	1kHz	0.29
2.4GHz 802.11n HT20	92.73	1340.00	0.75	1kHz	0.33

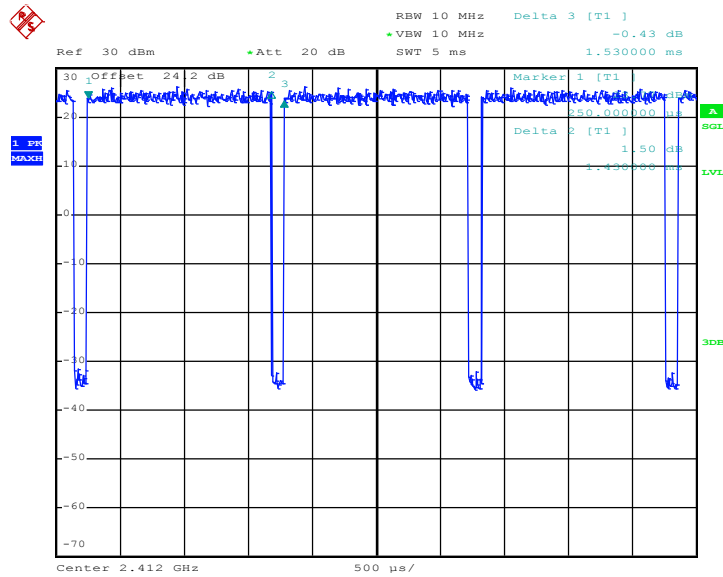
802.11b



Date: 14.JAN.2019 22:26:46

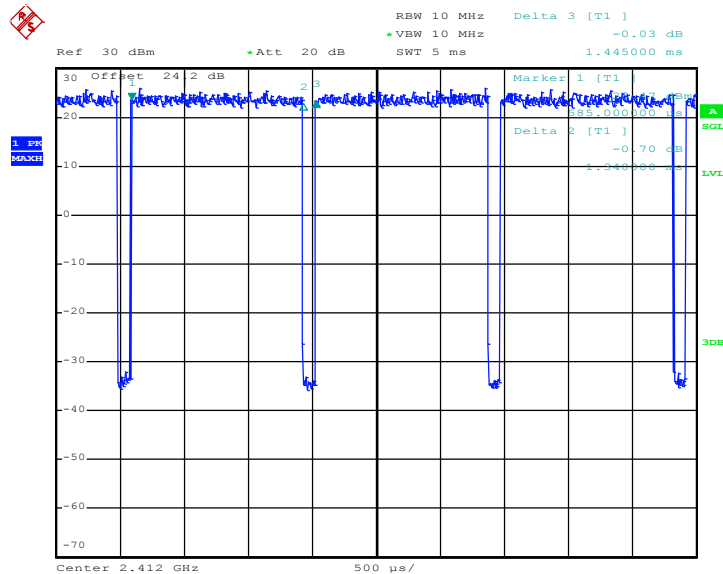


802.11g



Date: 14.JAN.2019 22:30:19

802.11n HT20



Date: 14.JAN.2019 22:43:11

————THE END————