



FCC RADIO TEST REPORT

FCC ID : 2ATUQ-6699
Equipment : Tablet
Model Name : K72LL3
Applicant : Mangled Horses LLC
225 Wilmington-West Chester Pike,
Suite 202, Chadds Ford, PA 19317
Standard : FCC Part 15 Subpart C §15.247

The product was received on Oct. 30, 2019 and testing was started from Nov. 11, 2019 and completed on Jan. 07, 2020. We, SPORTON INTERNATIONAL INC., EMC & Wireless Communications Laboratory, would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

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

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

Louis Wu

Approved by: Louis Wu

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



Table of Contents

History of this test report.....	3
Summary of Test Result.....	4
1 General Description	5
1.1 Product Feature of Equipment Under Test.....	5
1.2 Product Specification of Equipment Under Test.....	5
1.3 Modification of EUT	5
1.4 Testing Location	6
1.5 Applicable Standards.....	6
2 Test Configuration of Equipment Under Test	7
2.1 Carrier Frequency and Channel	7
2.2 Test Mode.....	8
2.3 Connection Diagram of Test System.....	9
2.4 Support Unit used in test configuration and system	10
2.5 EUT Operation Test Setup	11
2.6 Measurement Results Explanation Example.....	11
3 Test Result	12
3.1 6dB and 99% Bandwidth Measurement	12
3.2 Output Power Measurement.....	14
3.3 Power Spectral Density Measurement	15
3.4 Conducted Band Edges and Spurious Emission Measurement	17
3.5 Radiated Band Edges and Spurious Emission Measurement	48
3.6 AC Conducted Emission Measurement.....	52
3.7 Antenna Requirements.....	54
4 List of Measuring Equipment.....	55
5 Uncertainty of Evaluation	57
Appendix A. Conducted Test Results	
Appendix B. AC Conducted Emission Test Result	
Appendix C. Radiated Spurious Emission	
Appendix D. Radiated Spurious Emission Plots	
Appendix E. Duty Cycle Plots	



History of this test report

Report No.	Version	Description	Issued Date
FR982217-01C	01	Initial issue of report	Jan. 08, 2020
FR982217-01C	02	1. Correct the WPC function is supporting receive only. 2. Add the FCC ID of Wireless Charger in section 2.4.	Jan. 15, 2020
FR982217-01C	03	Add the description of worst mode in section 2.2	Jan. 17, 2020
FR982217-01C	04	Add the near view of Radiated Emission in setup photo	Jan. 23, 2020

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: Amy Chen

1 General Description

1.1 Product Feature of Equipment Under Test

Product Feature	
Equipment	Tablet
Model Name	K72LL3
FCC ID	2ATUQ-6699
EUT supports Radios application	WLAN 11b/g/n HT20 WLAN 11a/n HT20/HT40 WLAN 11ac VHT20/VHT40/VHT80 Bluetooth BR/EDR/LE WPC Receive only

1.2 Product Specification of Equipment Under Test

Standards-related Product Specification	
Tx/Rx Channel Frequency Range	2412 MHz ~ 2472 MHz
Maximum Output Power to antenna	<Ant. 1> 802.11b : 15.10 dBm (0.0324 W) 802.11g : 14.20 dBm (0.0263 W) 802.11n HT20 : 14.20 dBm (0.0263 W) <Ant. 2> 802.11b : 15.30 dBm (0.0339 W) 802.11g : 14.30 dBm (0.0269 W) 802.11n HT20 : 14.30 dBm (0.0269 W)
99% Occupied Bandwidth	<Ant. 1> 802.11b : 12.94 MHz 802.11g : 16.78 MHz 802.11n HT20 : 17.78 MHz <Ant. 2> 802.11b : 12.94 MHz 802.11g : 16.73 MHz 802.11n HT20 : 17.78 MHz
Antenna Type / Gain	<Ant. 1> : IFA Antenna with gain 2.8 dBi <Ant. 2> : Monopole Antenna with gain 2.8 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. EMC & Wireless Communications Laboratory	
Test Site Location	No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.) TEL: +886-3-327-3456 FAX: +886-3-328-4978	
Test Site No.	Sporton Site No.	
	TH05-HY	CO05-HY

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

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

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

FCC designation No.: TW1190 and TW0007

1.5 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 with adapter mode, Y plane with WPC mode) 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

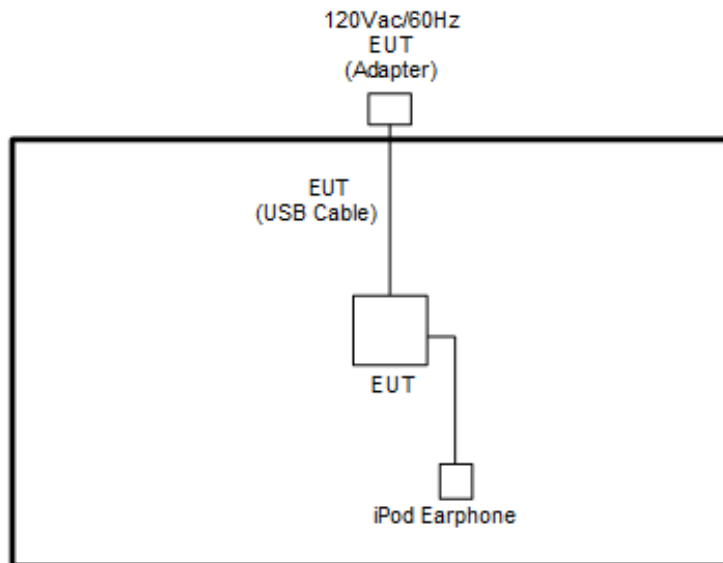
Final test modes are considering the modulation and worse data rates as below table.

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

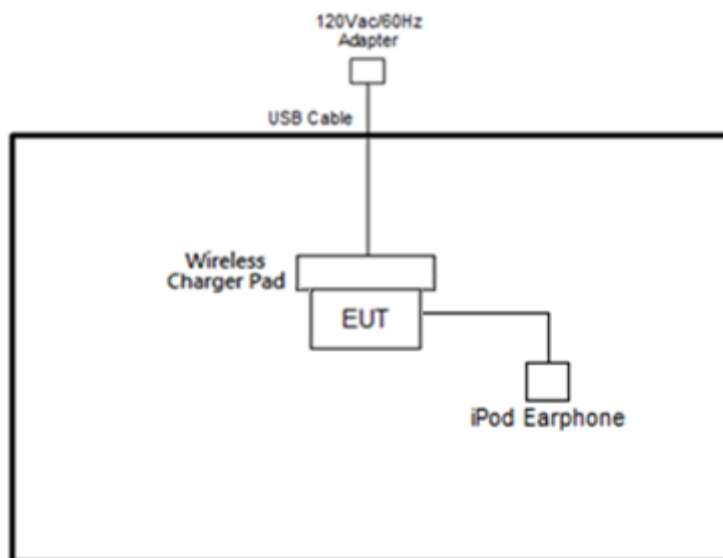
Test Cases	
AC Conducted Emission	Mode 1 :WLAN (2.4GHz) Link + Bluetooth Link + Play MPEG4 from SD Card + USB Cable (Charging from Adapter (AP15))
Remark: - For Radiated Test Cases, the tests were performed with Adapter 1. - The AC Conducted Emission test case has leveraged from the worst mode of Part 15B AC Conducted Emission. - The worst mode of radiated spurious emissions is 802.11n HT20 Ch13 for Ant.1 and 802.11n HT20 CH13 for Ant.2, and the EUT with Wireless Charger was verified and recorded in this report.	

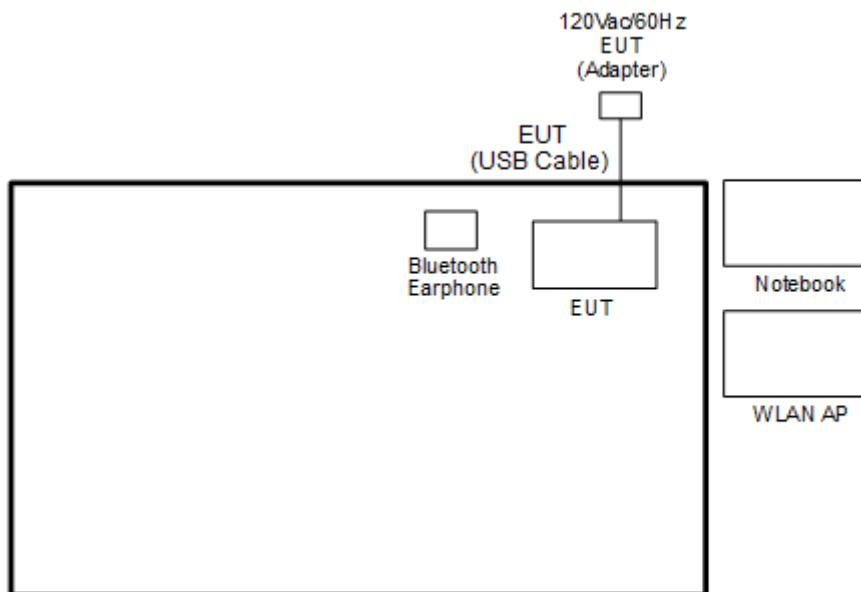
2.3 Connection Diagram of Test System

<WLAN Tx with Adapter Mode>



<WLAN Tx with Wireless Charger Mode>



<AC Conducted Emission 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 Earphone	Sony Erricsson	MW600	PY700A2029	N/A	N/A
2.	WLAN AP	ASUS	RT-AC1750	MSQ-RTAC66U	N/A	Unshielded, 1.8 m
3.	Notebook	DELL	Latitude E3340	FCC DoC	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
4.	Notebook	Lenovo	L570	N/A	N/A	N/A
5.	SD Card	SanDisk	MicroSD HC	N/A	N/A	N/A
6.	iPod Earphone	Apple	N/A	Verification	Unshielded, 1.0 m	N/A
7.	Wireless Charger	ANKER	A2524	2AOKB-A2524	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.

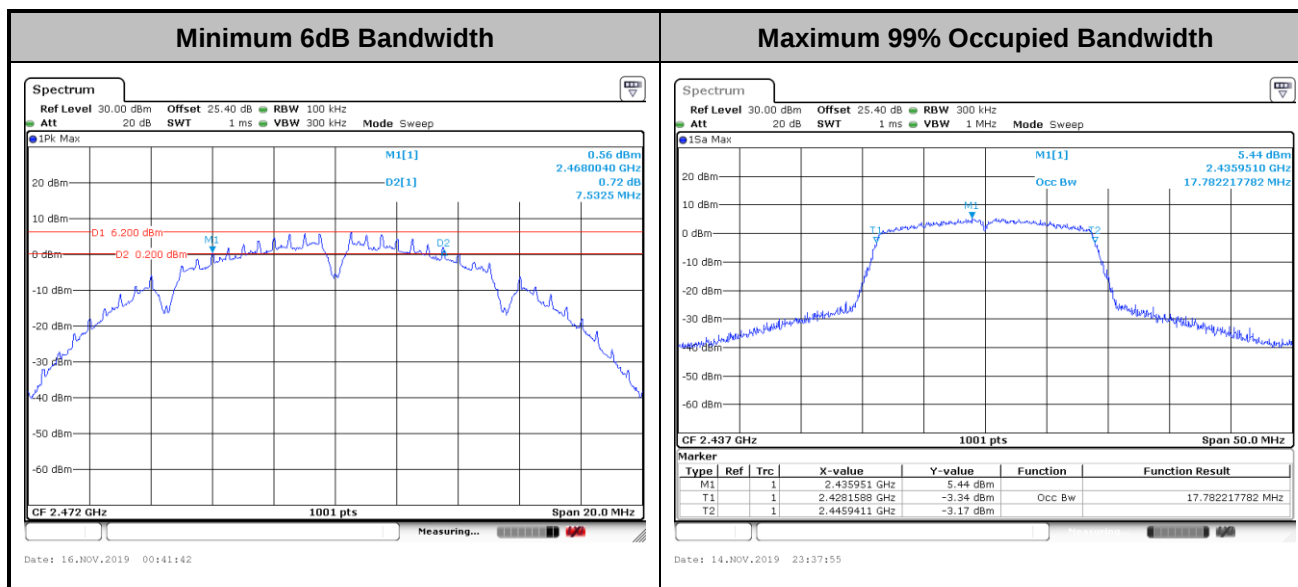
3.1.4 Test Setup





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

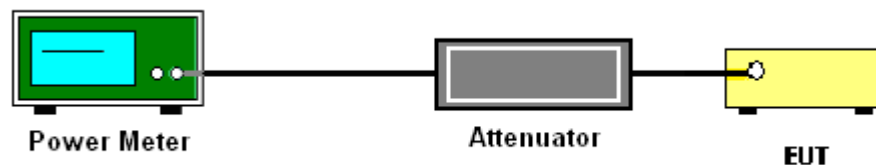
3.2.2 Measuring Instruments

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.

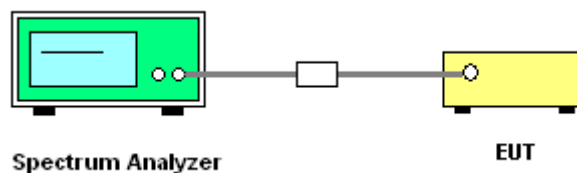
3.3.2 Measuring Instruments

See list of measuring equipment of this test report.

3.3.3 Test Procedures

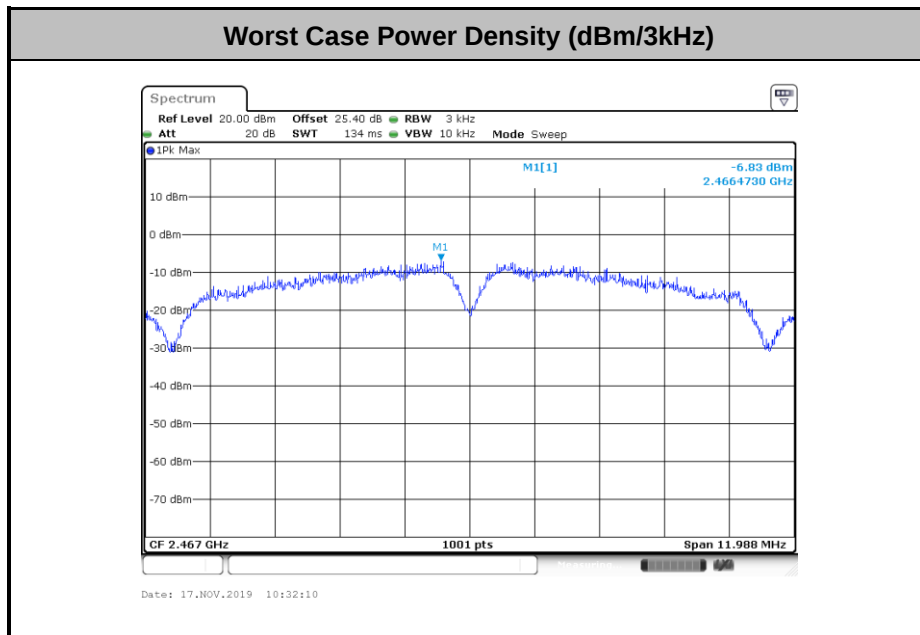
1. The testing follows the ANSI C63.10 Section 11.10.2 Method PKPSD.
2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the EUT transmit continuously.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

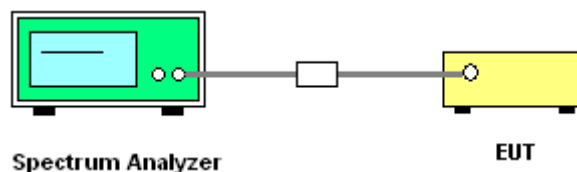
3.4.2 Measuring Instruments

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 30 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



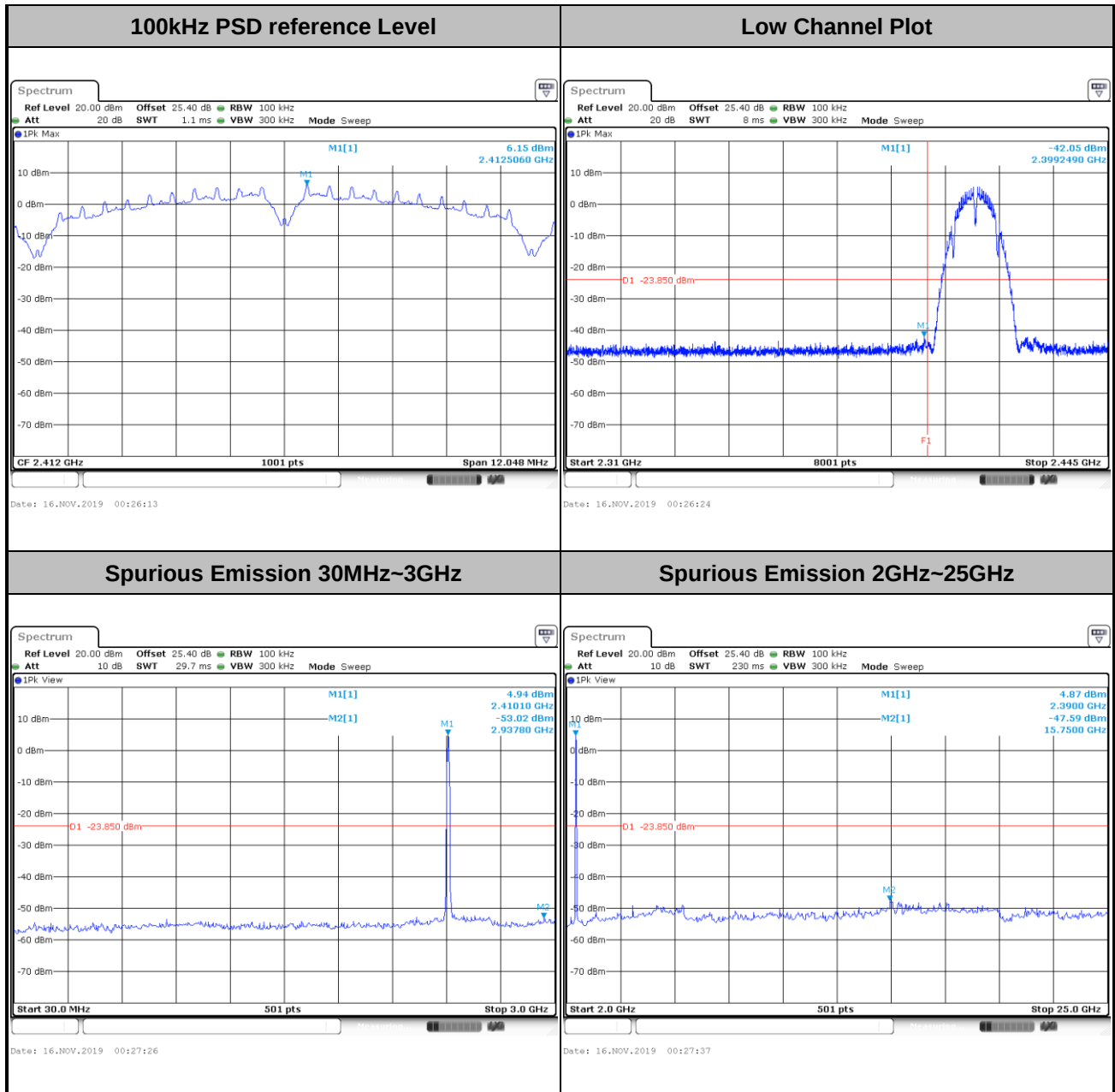


3.4.5 Test Result of Conducted Band Edges and Spurious Emission

Test Engineer :	Derek Hsu	Temperature :	21~25°C
		Relative Humidity :	51~54%

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

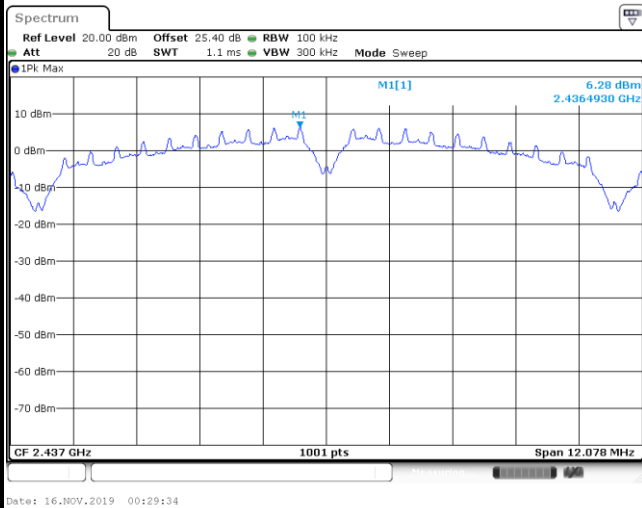
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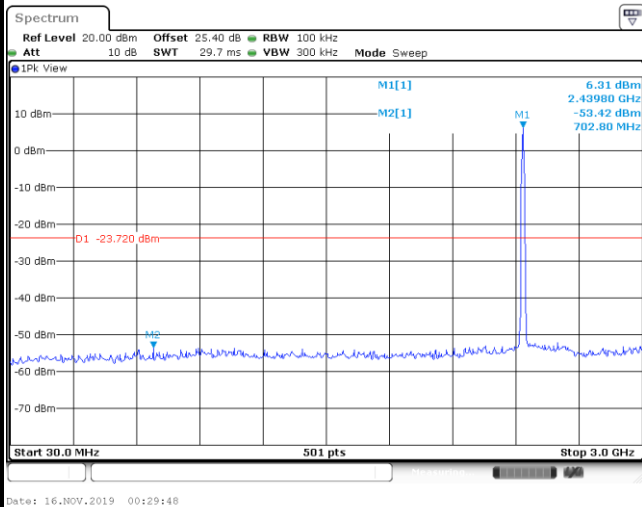
Test Mode :	802.11b	Test Channel :	06
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100kHz PSD reference Level

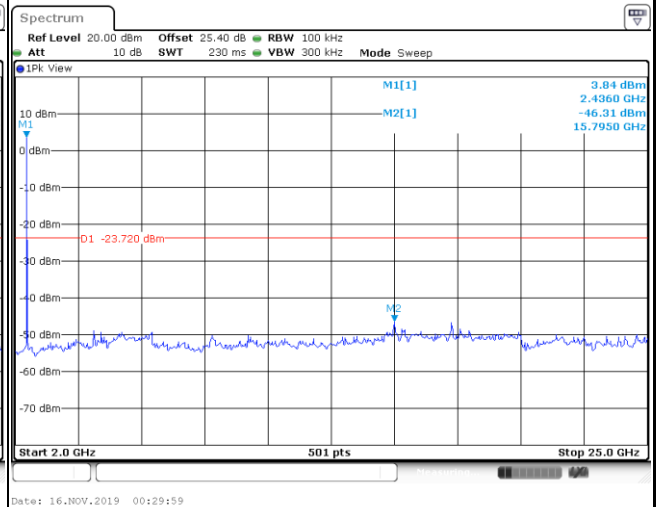


Mid Channel Plot

Spurious Emission 30MHz~3GHz

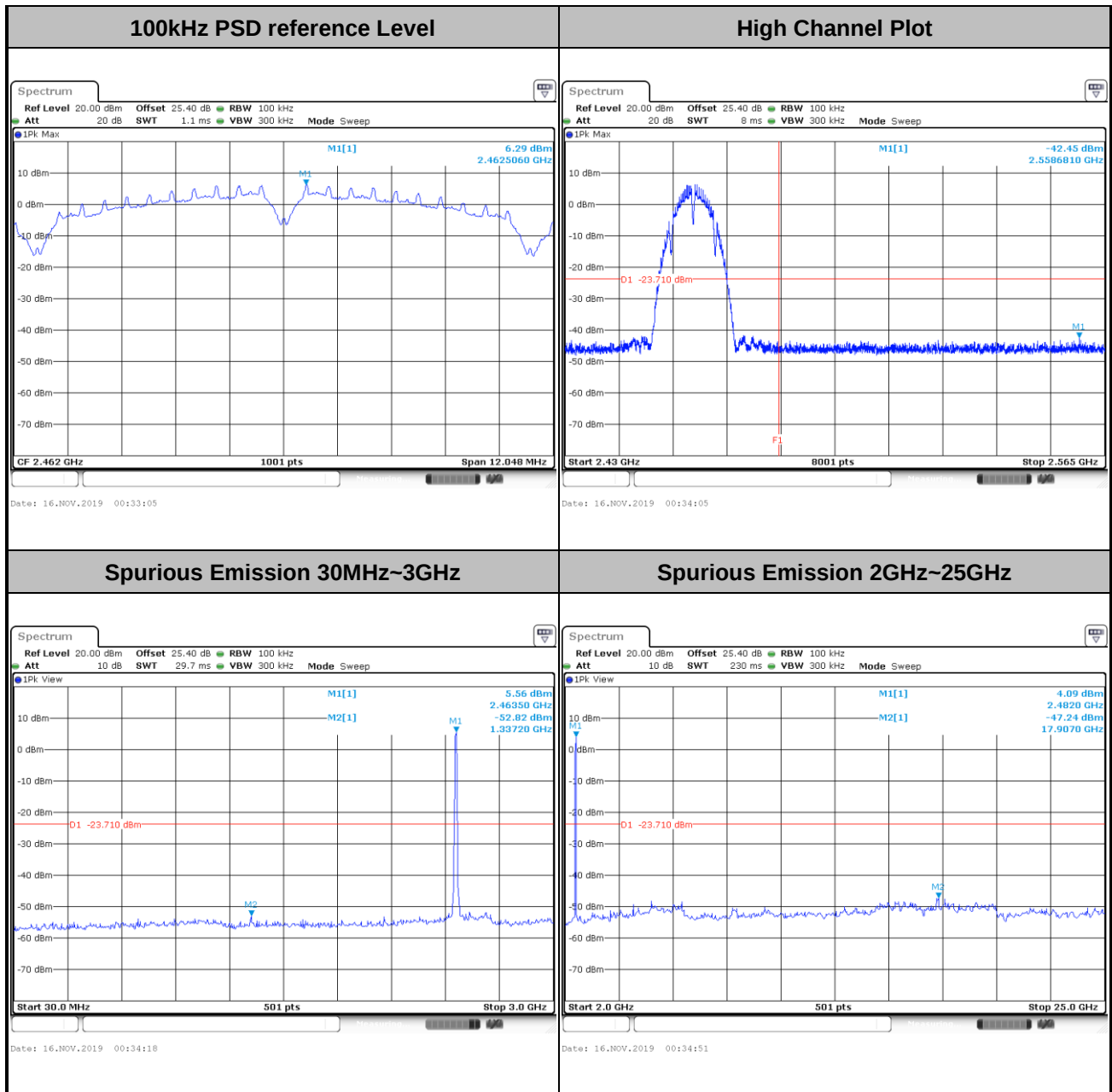


Spurious Emission 2GHz~25GHz



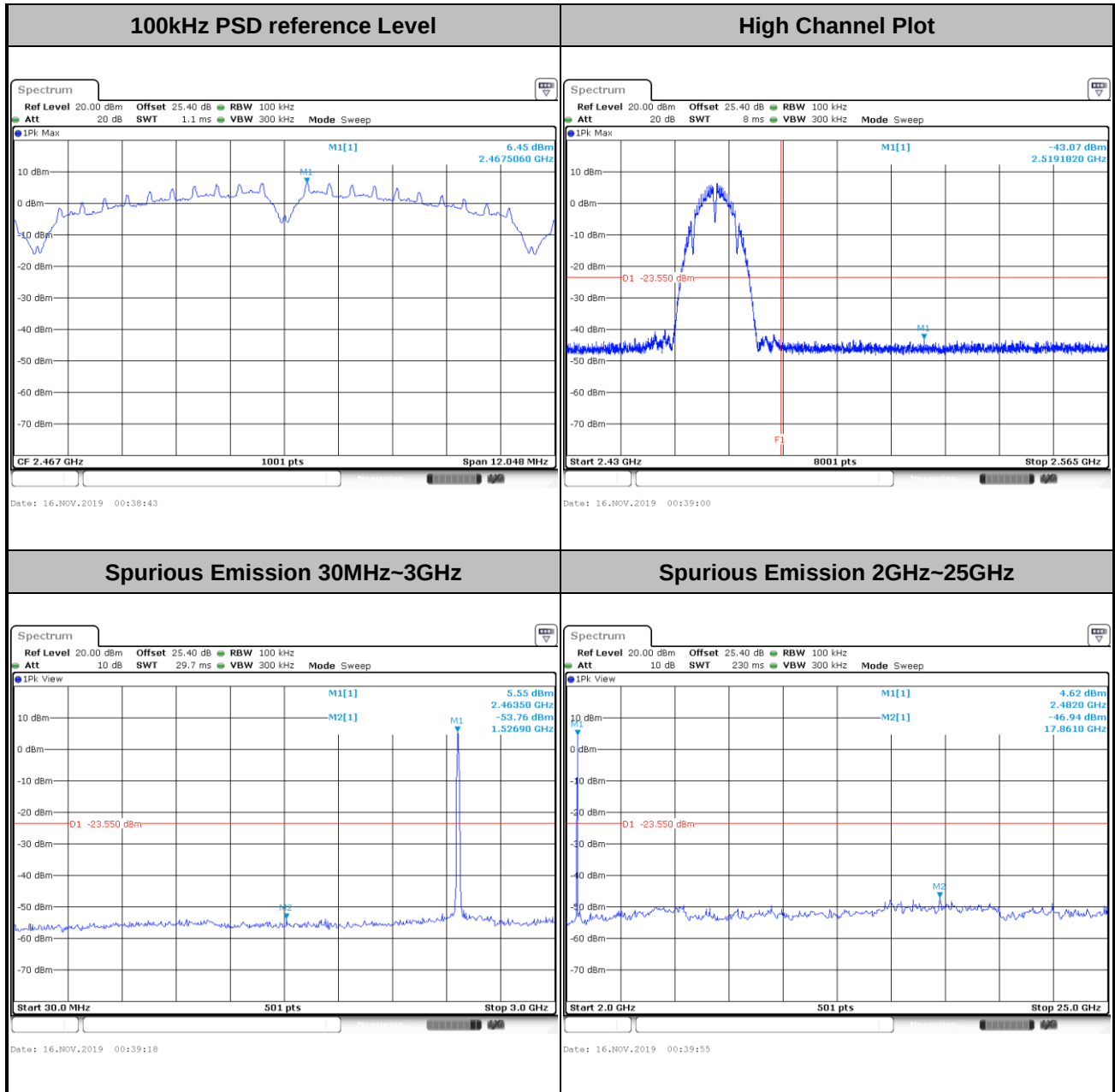


Test Mode :	802.11b	Test Channel :	11
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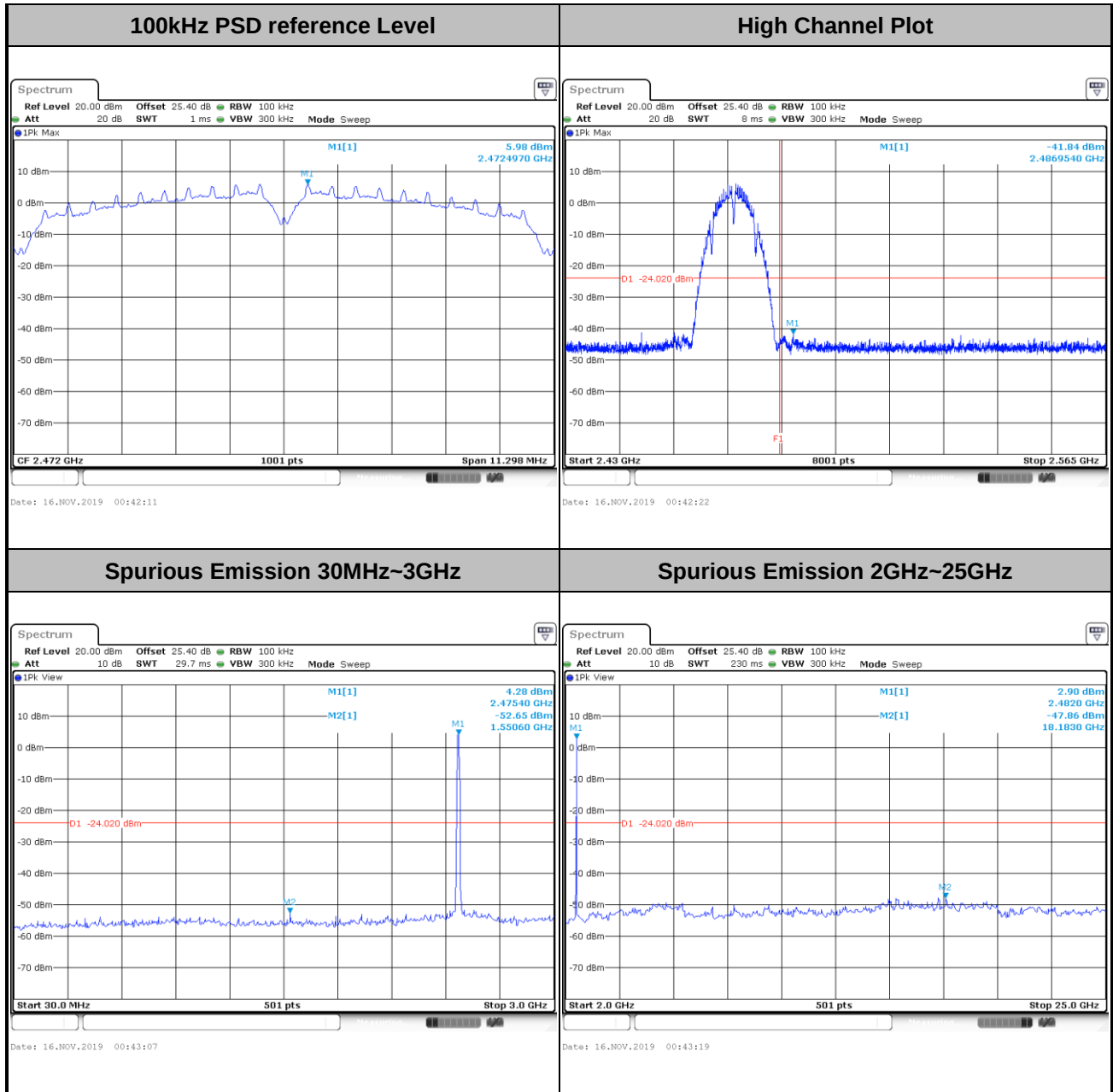


Test Mode :	802.11b	Test Channel :	12
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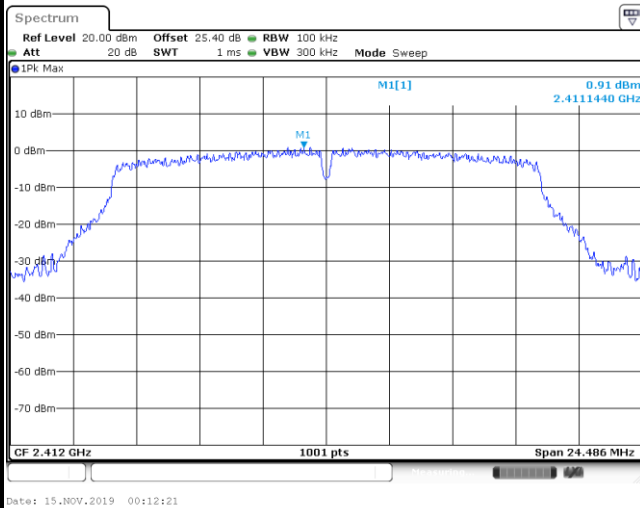
Test Mode :	802.11b	Test Channel :	13
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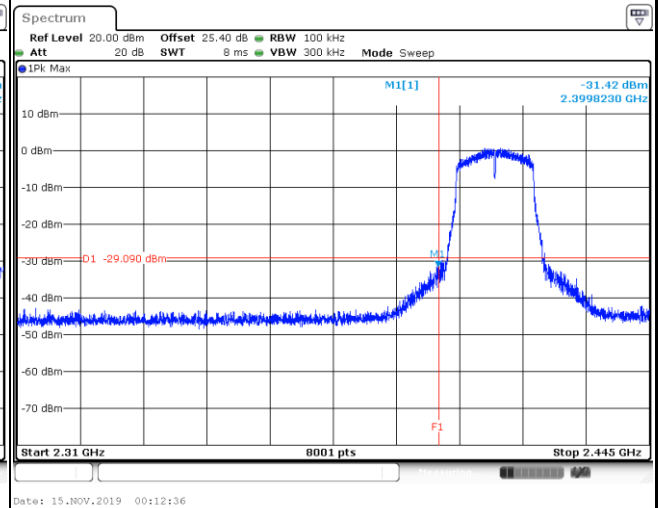


Test Mode :	802.11g	Test Channel :	01
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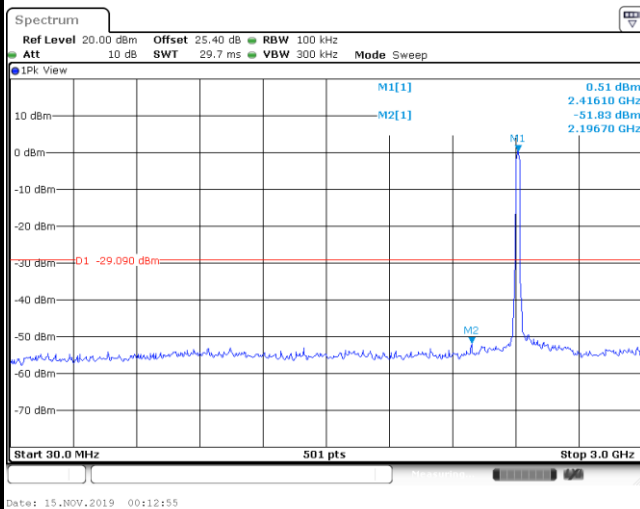
100kHz PSD reference Level



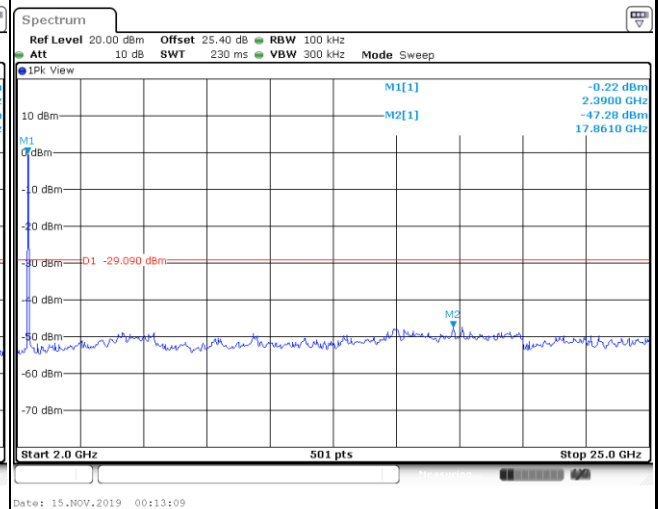
Low Channel Plot



Spurious Emission 30MHz~3GHz

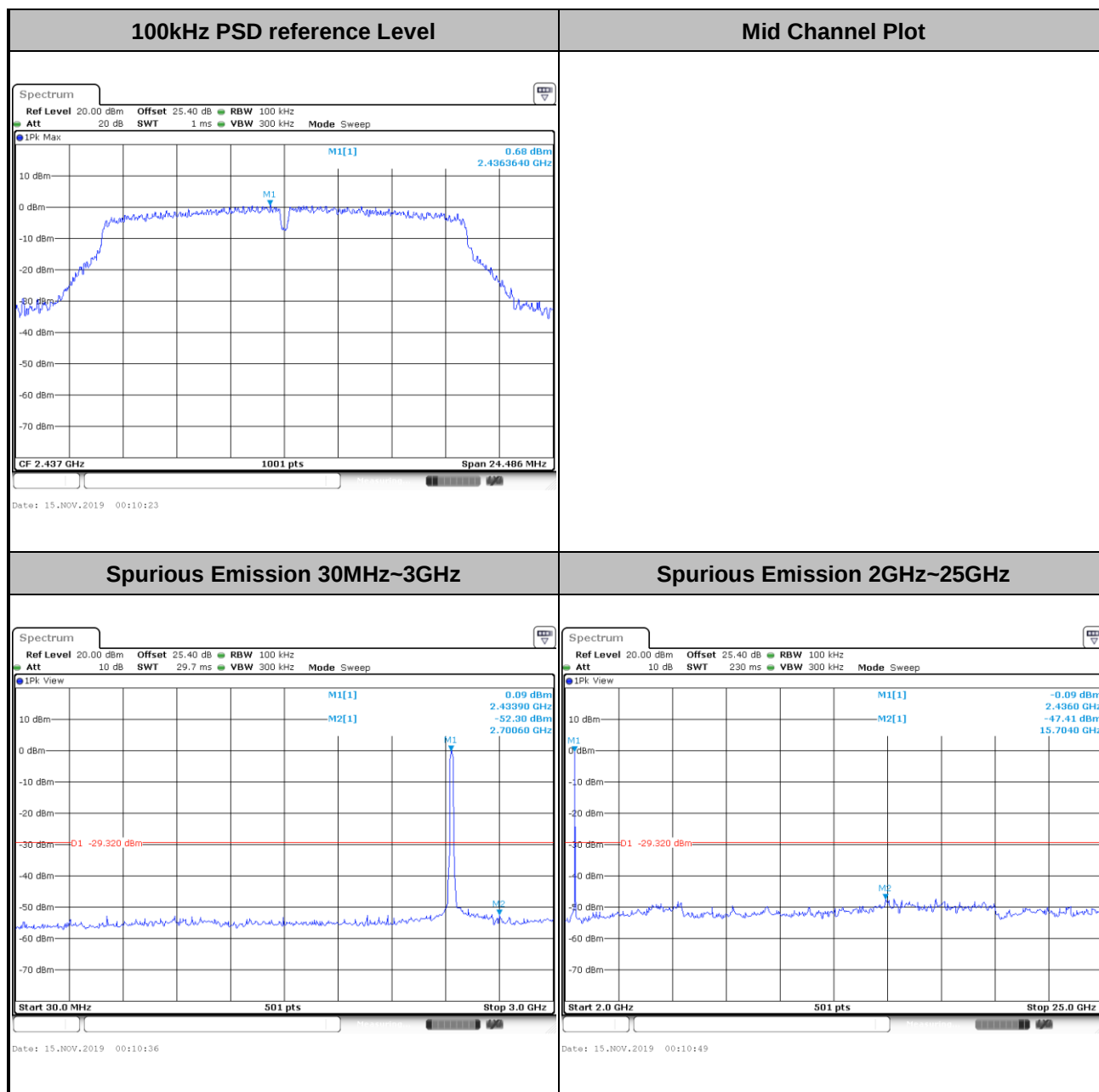


Spurious Emission 2GHz~25GHz



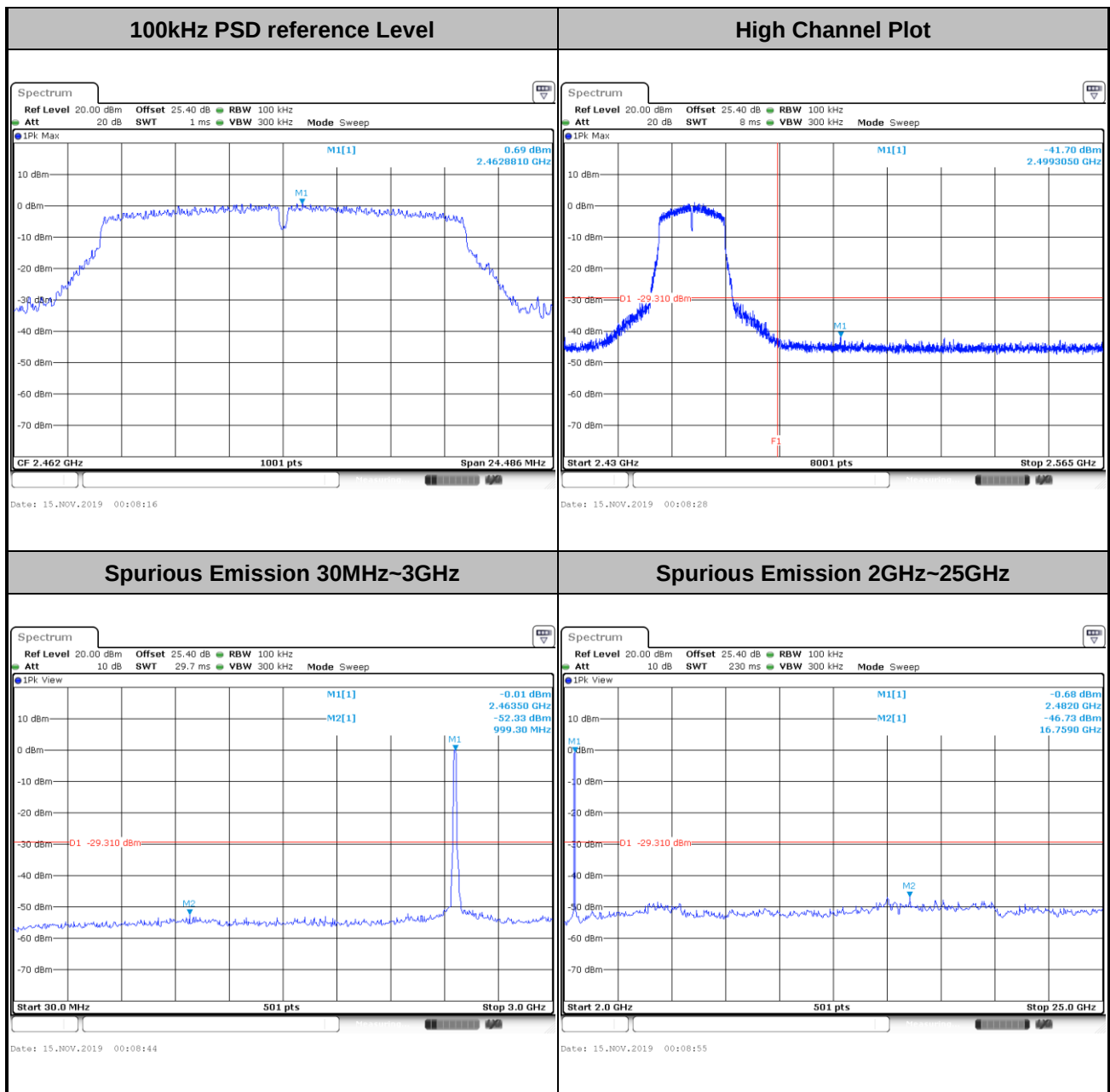


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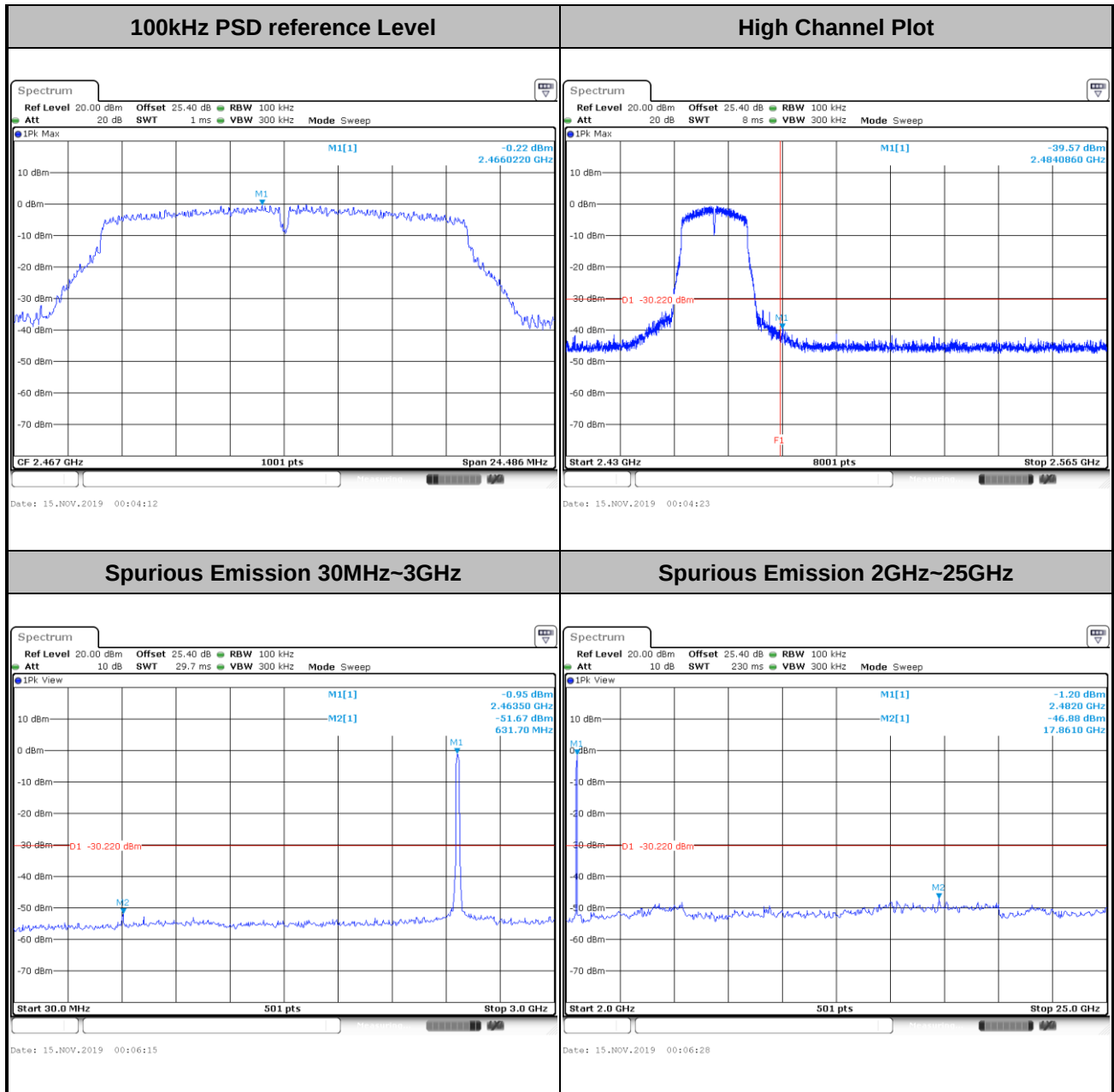


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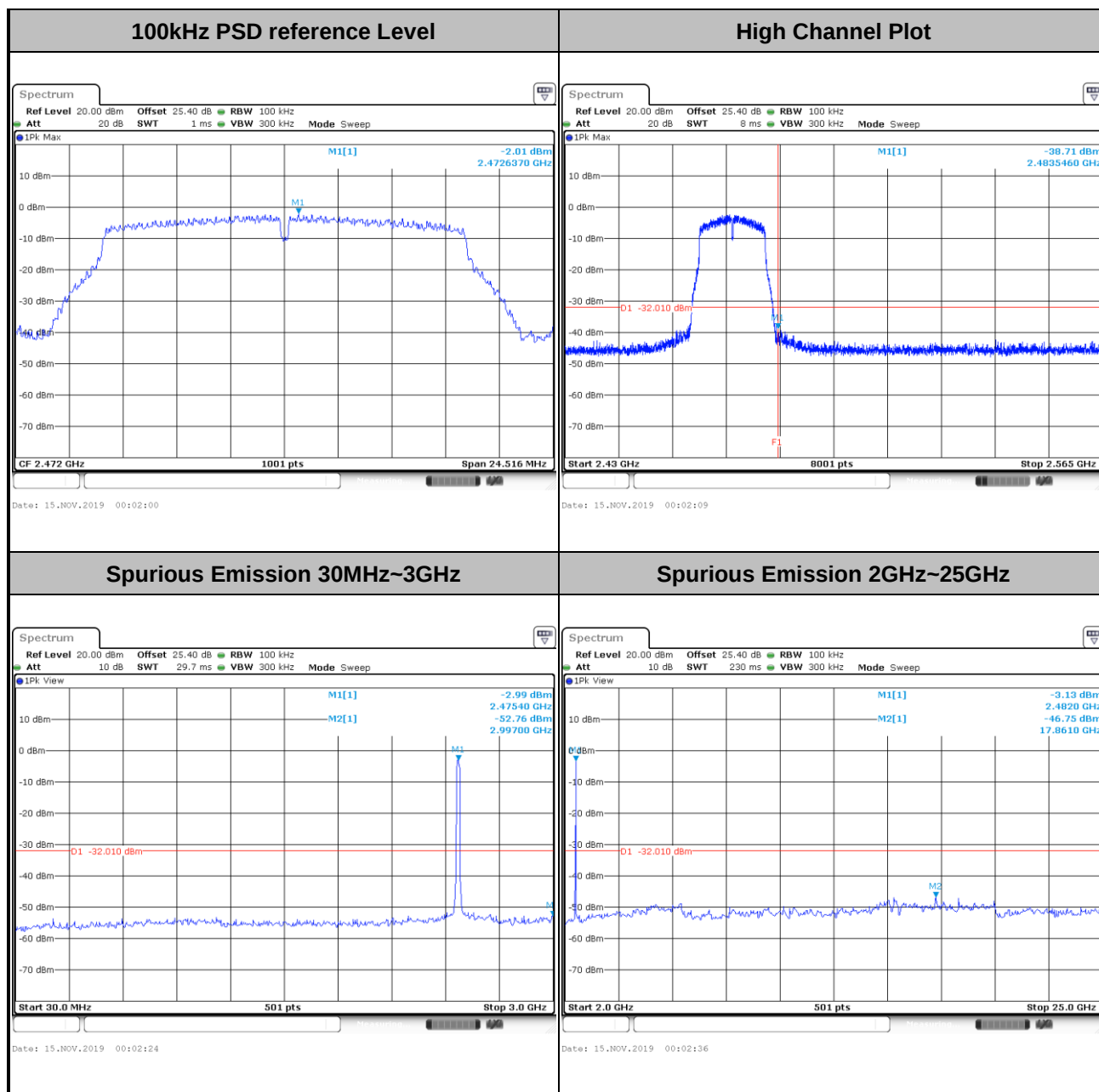


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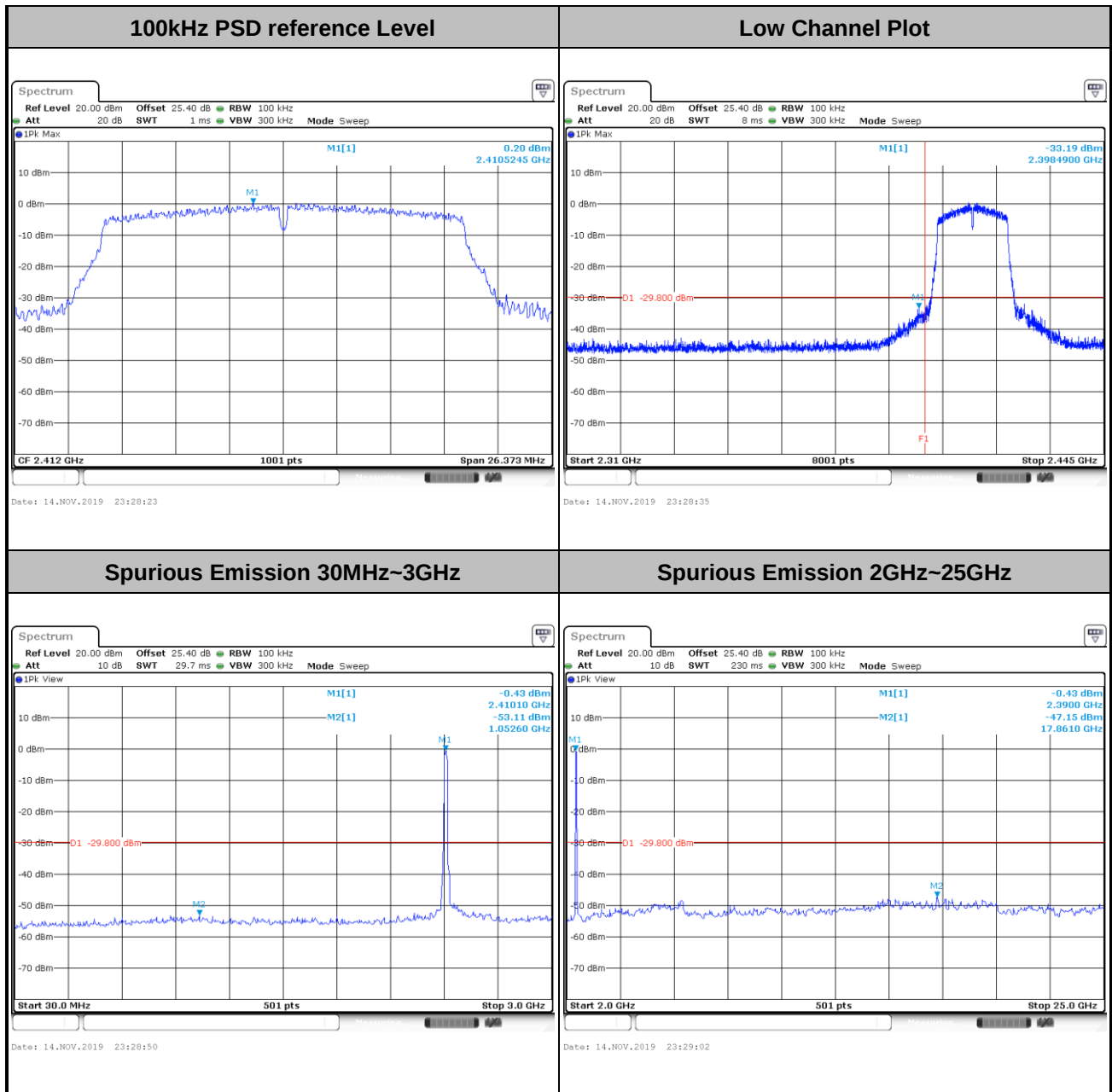


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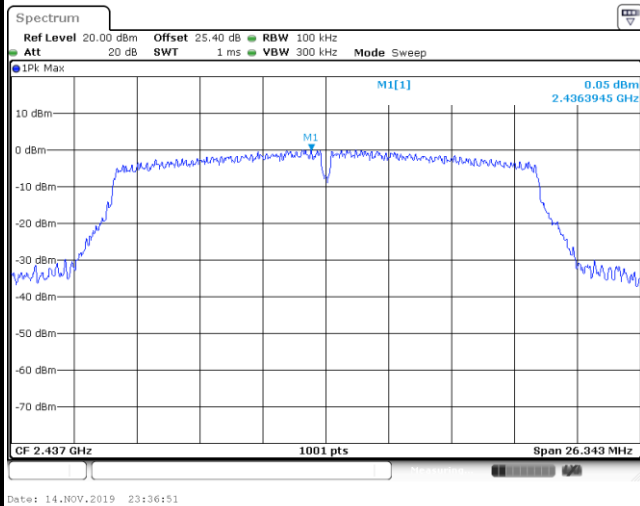
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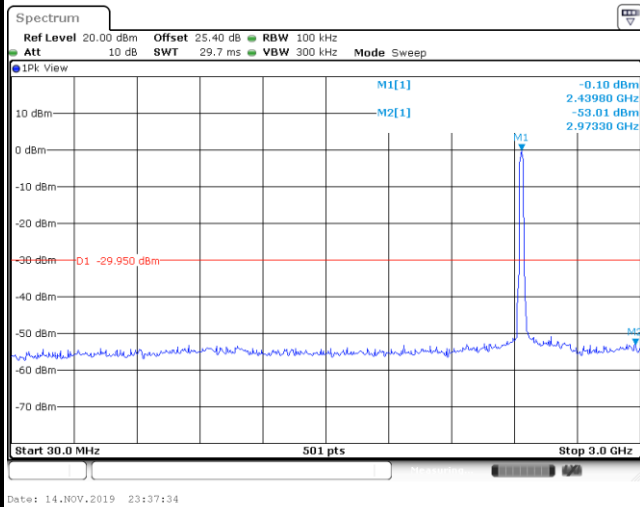
Test Mode :	802.11n HT20	Test Channel :	06
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100kHz PSD reference Level

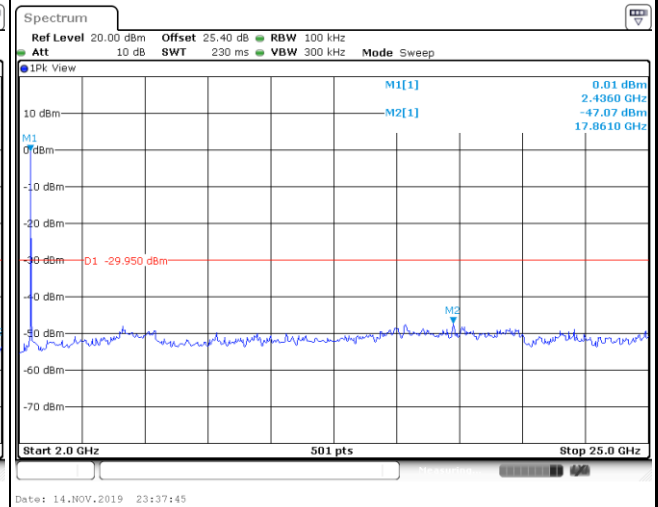


Mid Channel Plot

Spurious Emission 30MHz~3GHz

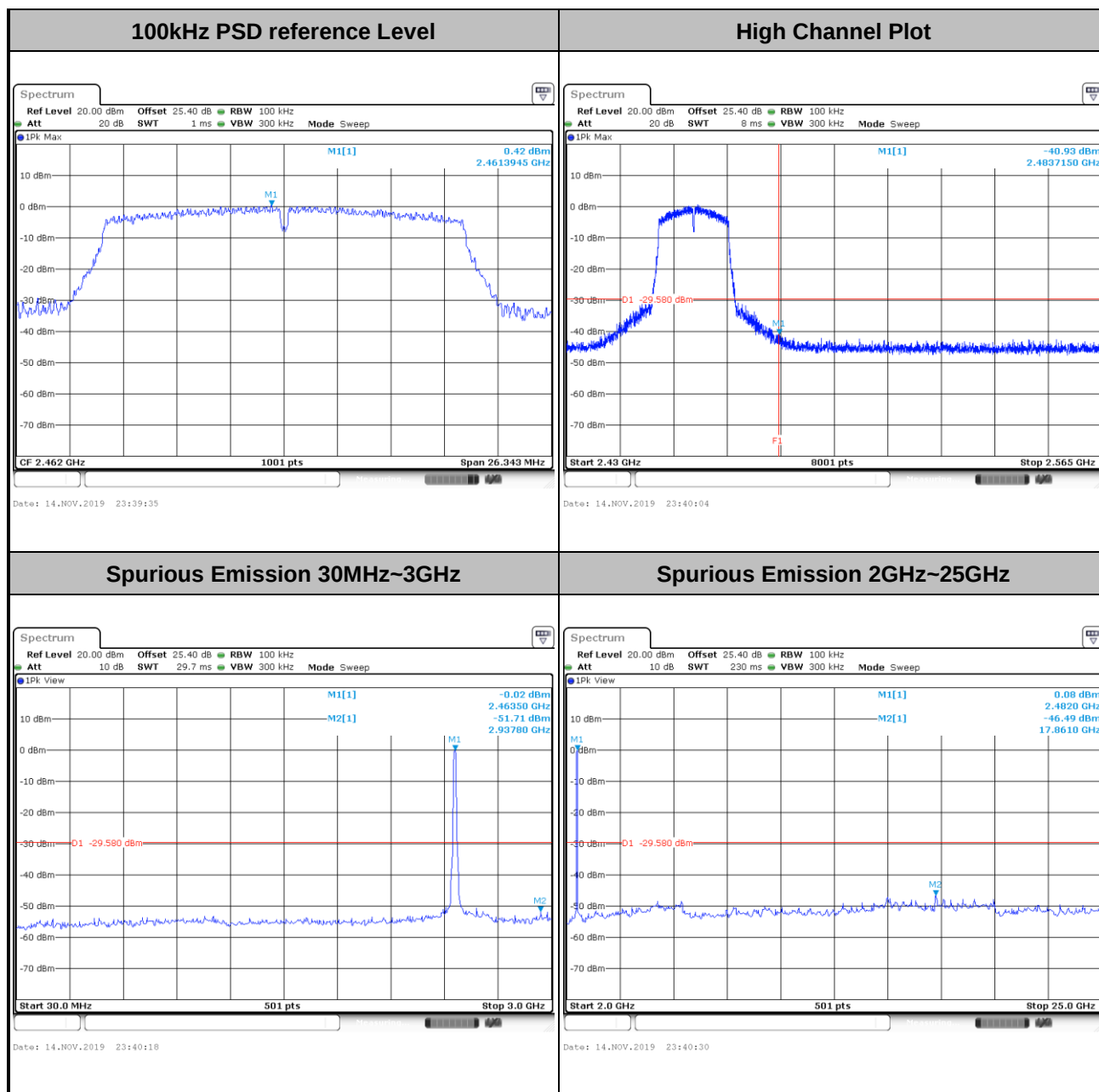


Spurious Emission 2GHz~25GHz



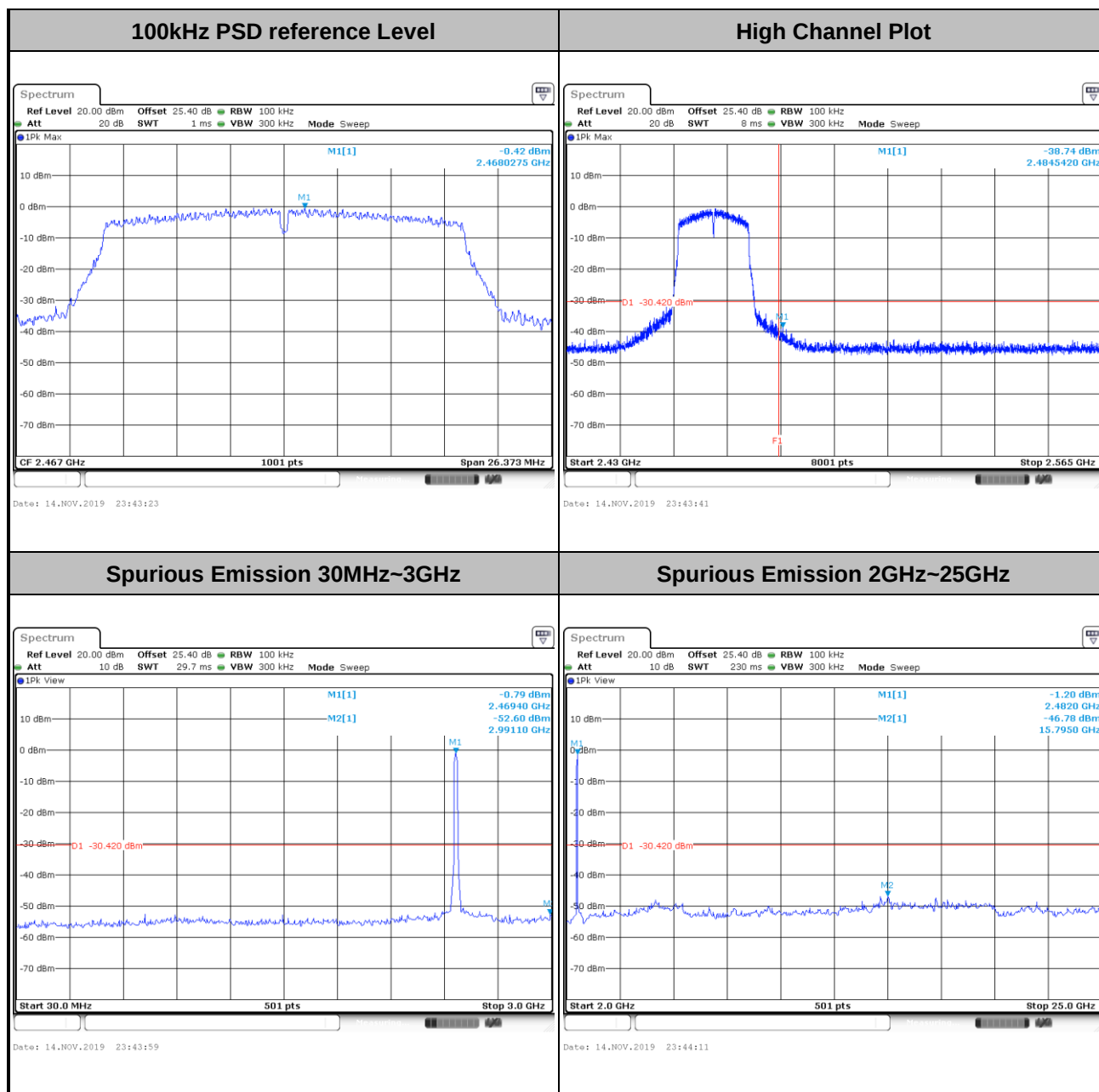


Test Mode :	802.11n HT20	Test Channel :	11
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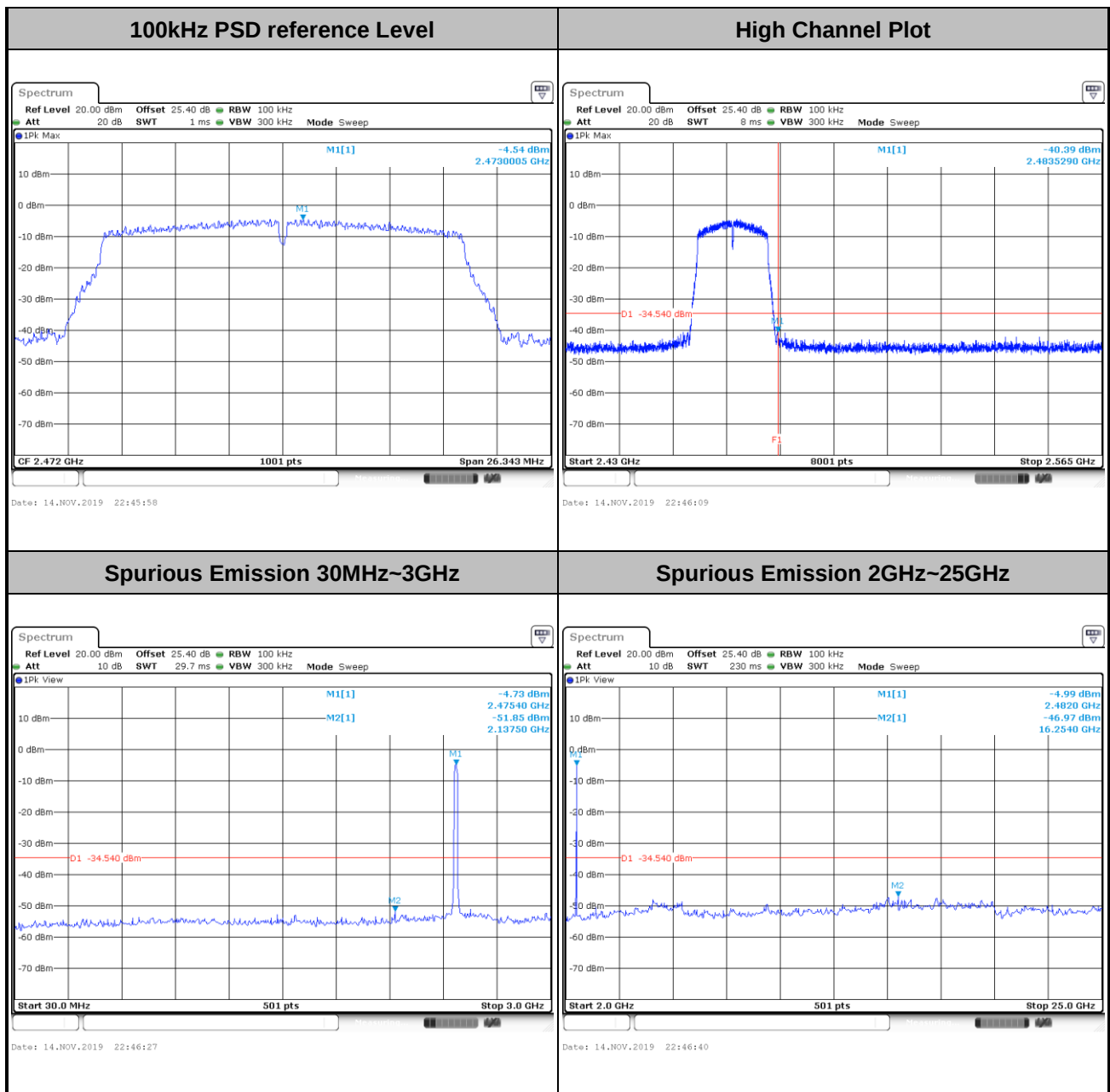


Test Mode :	802.11n HT20	Test Channel :	12
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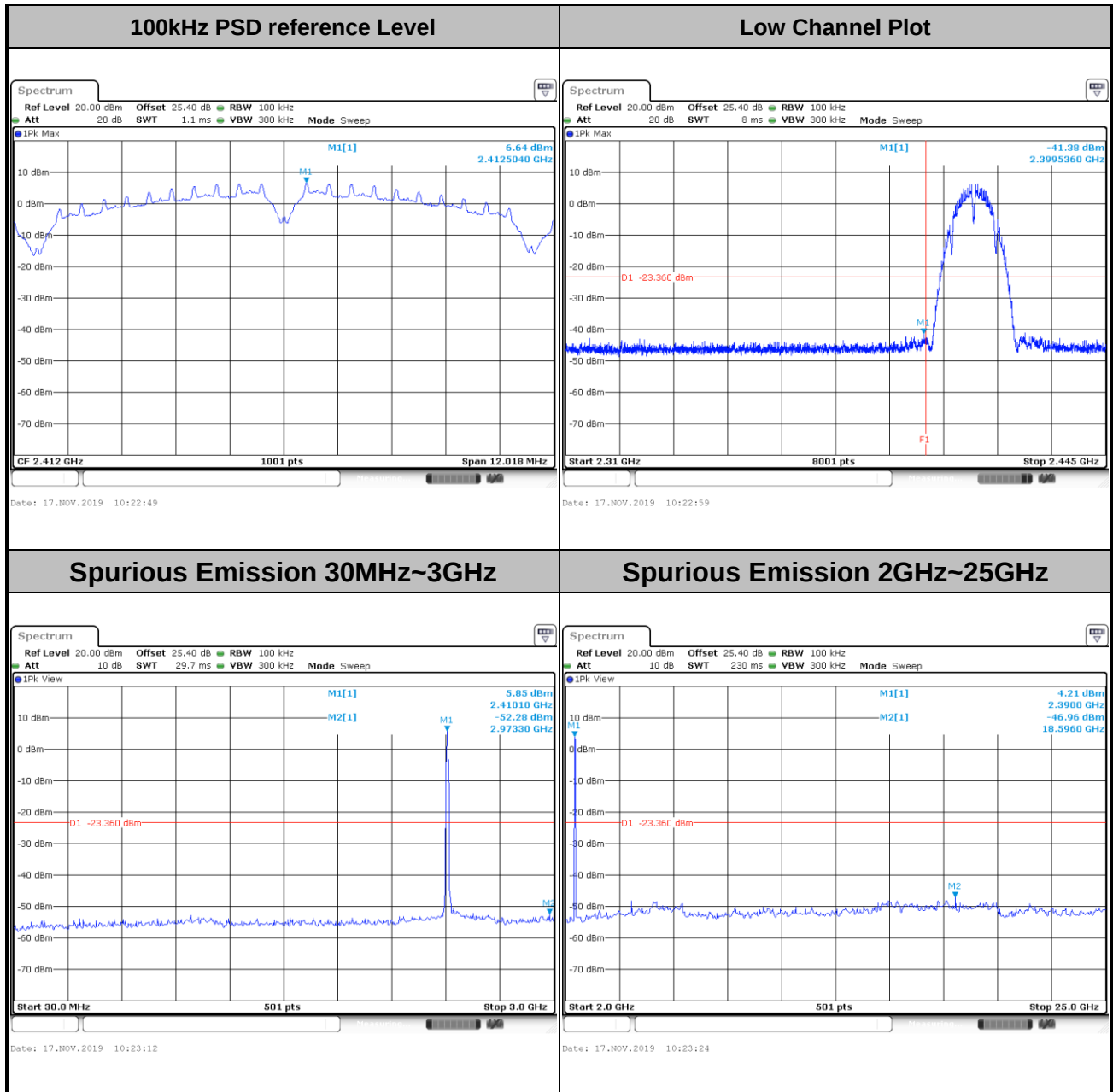
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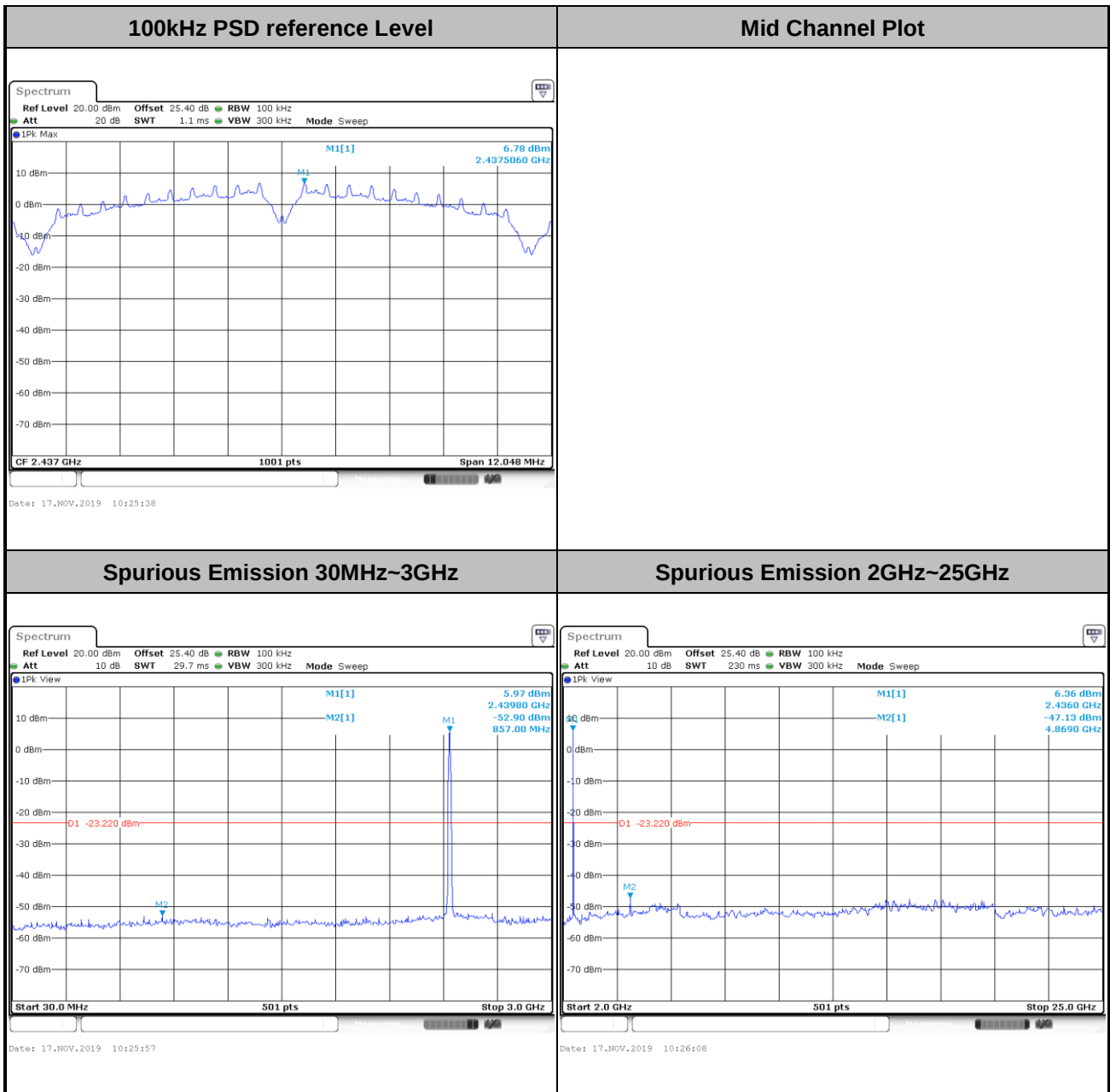
Number of TX = 1, Ant. 2 (Measured)

Test Mode :	802.11b	Test Channel :	01
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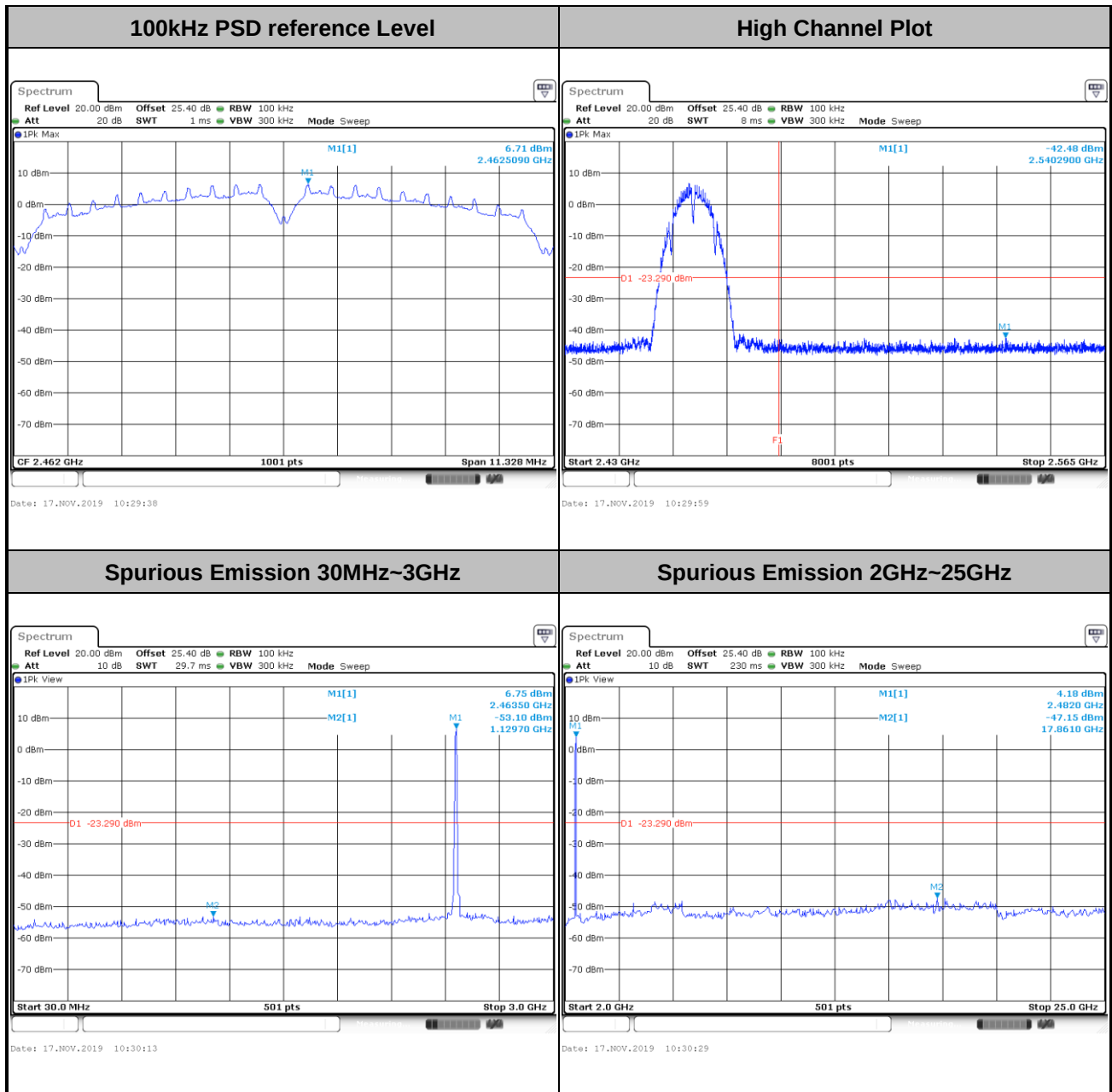


Test Mode :	802.11b	Test Channel :	06
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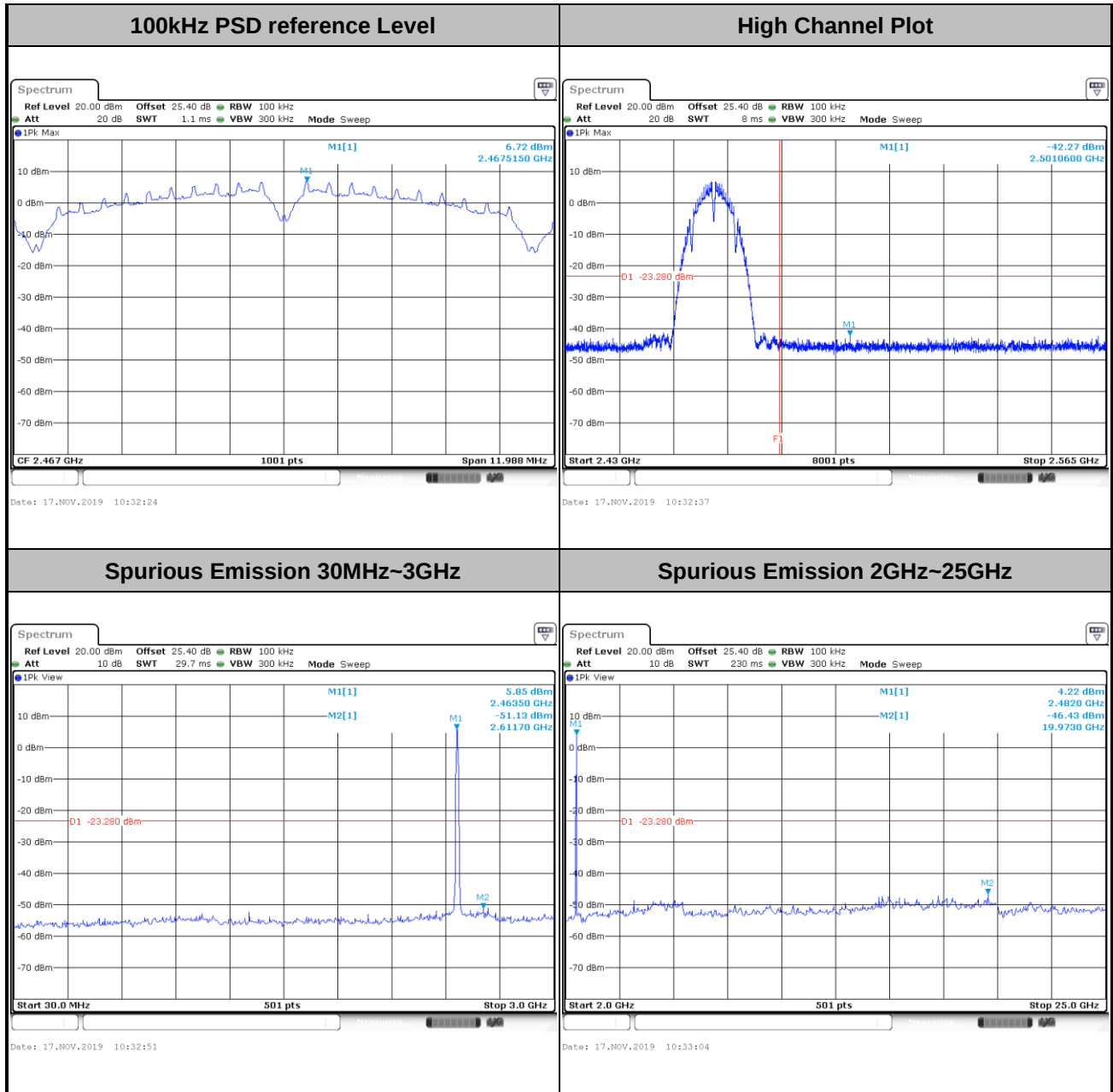


Test Mode :	802.11b	Test Channel :	11
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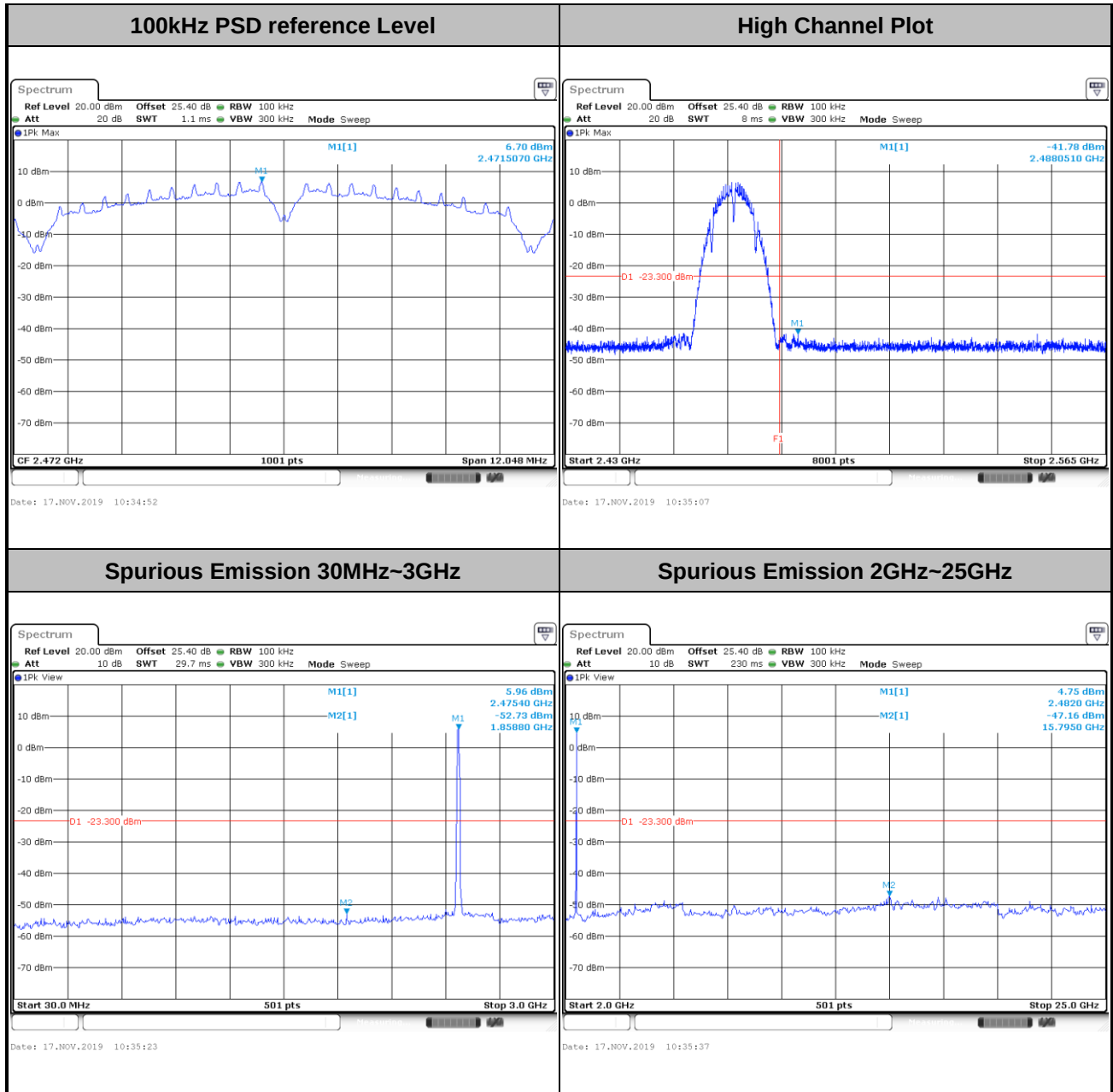


Test Mode :	802.11b	Test Channel :	12
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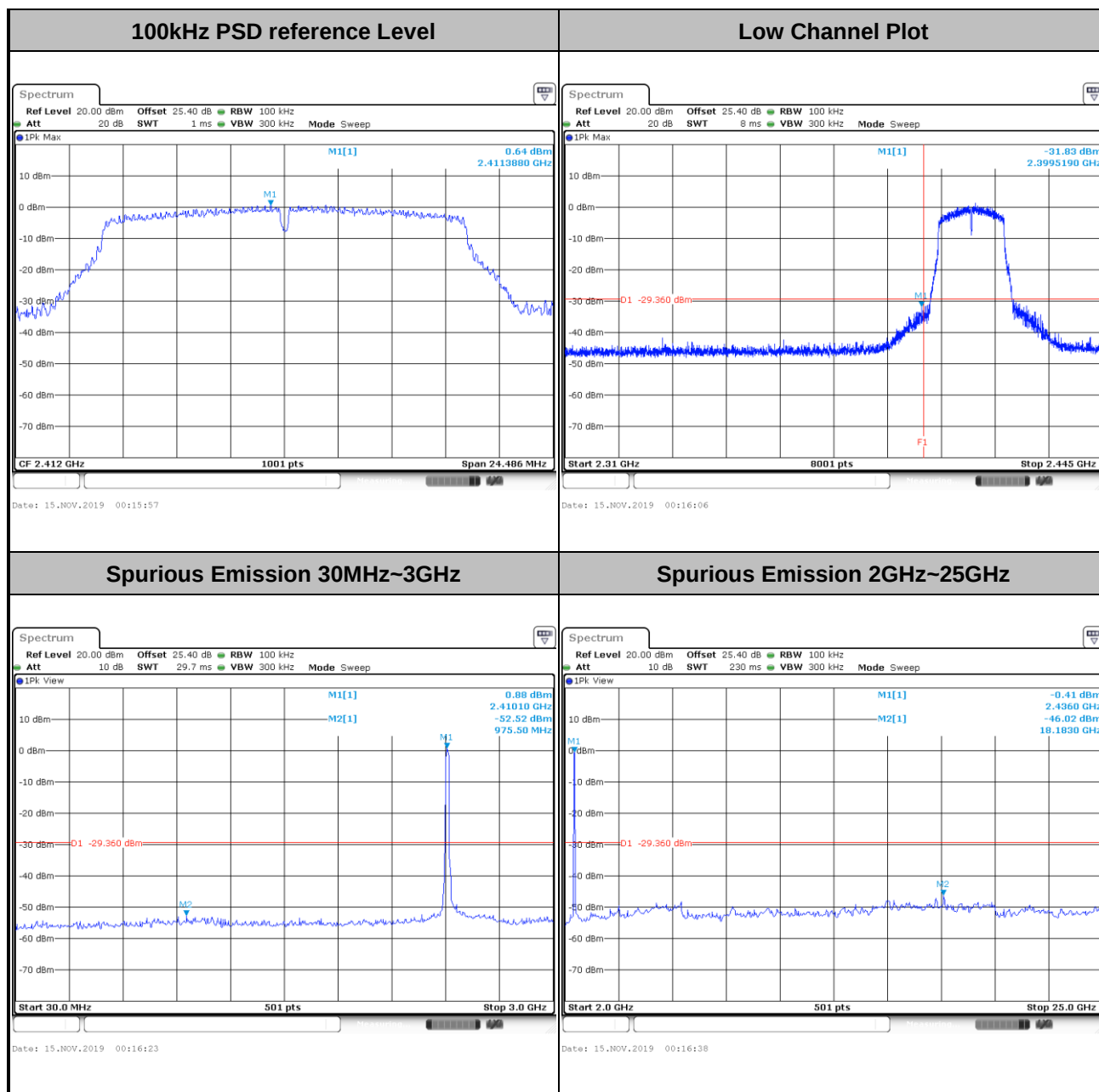


Test Mode :	802.11b	Test Channel :	13
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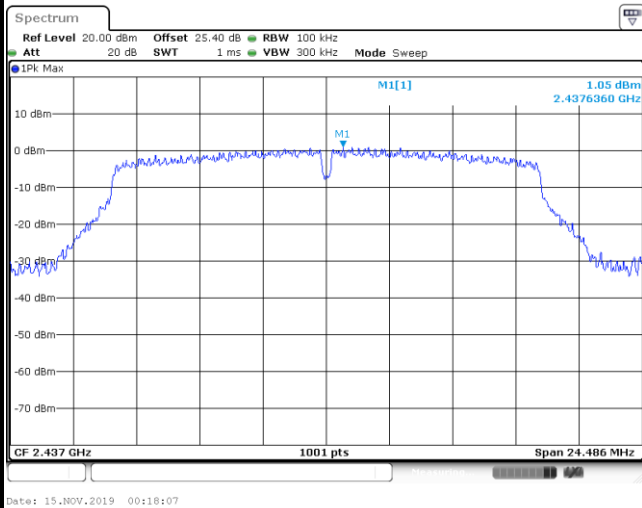
Test Mode :	802.11g	Test Channel :	01
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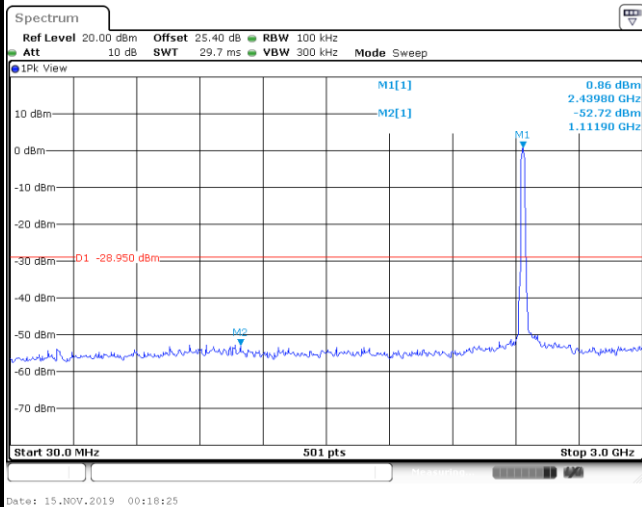
Test Mode :	802.11g	Test Channel :	06
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100kHz PSD reference Level

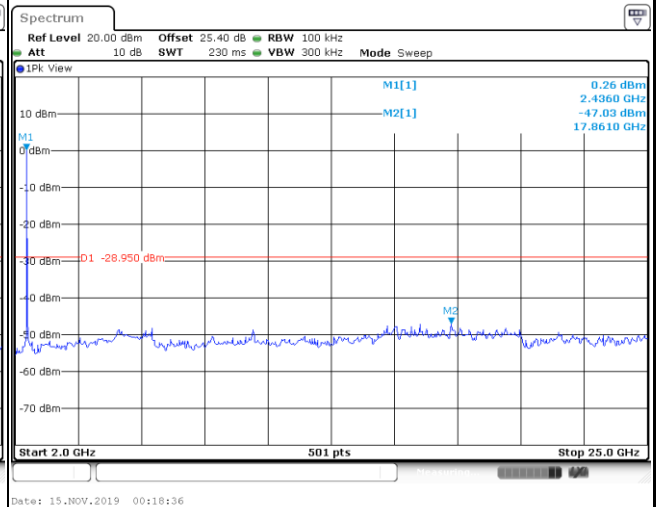


Mid Channel Plot

Spurious Emission 30MHz~3GHz

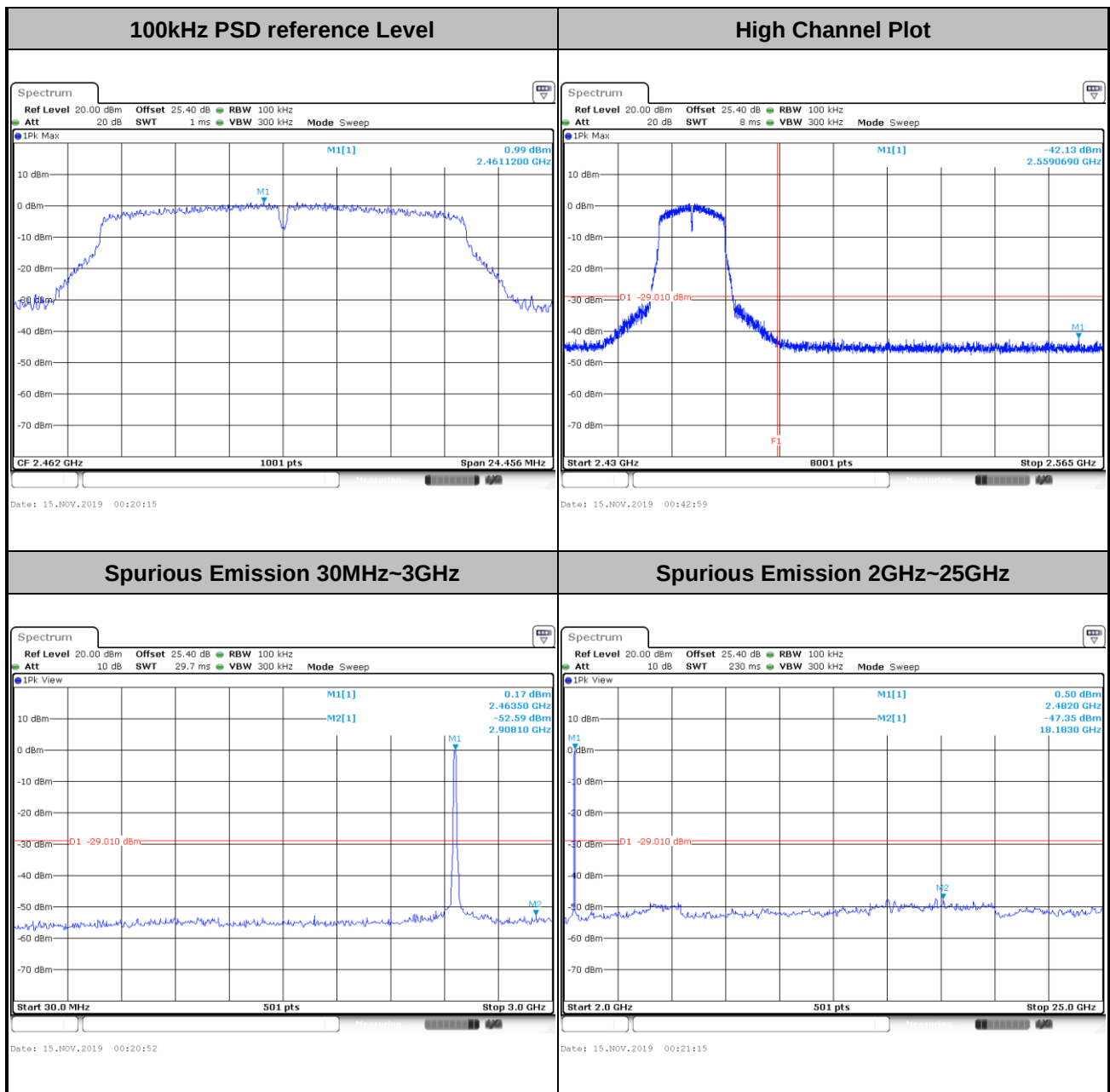


Spurious Emission 2GHz~25GHz



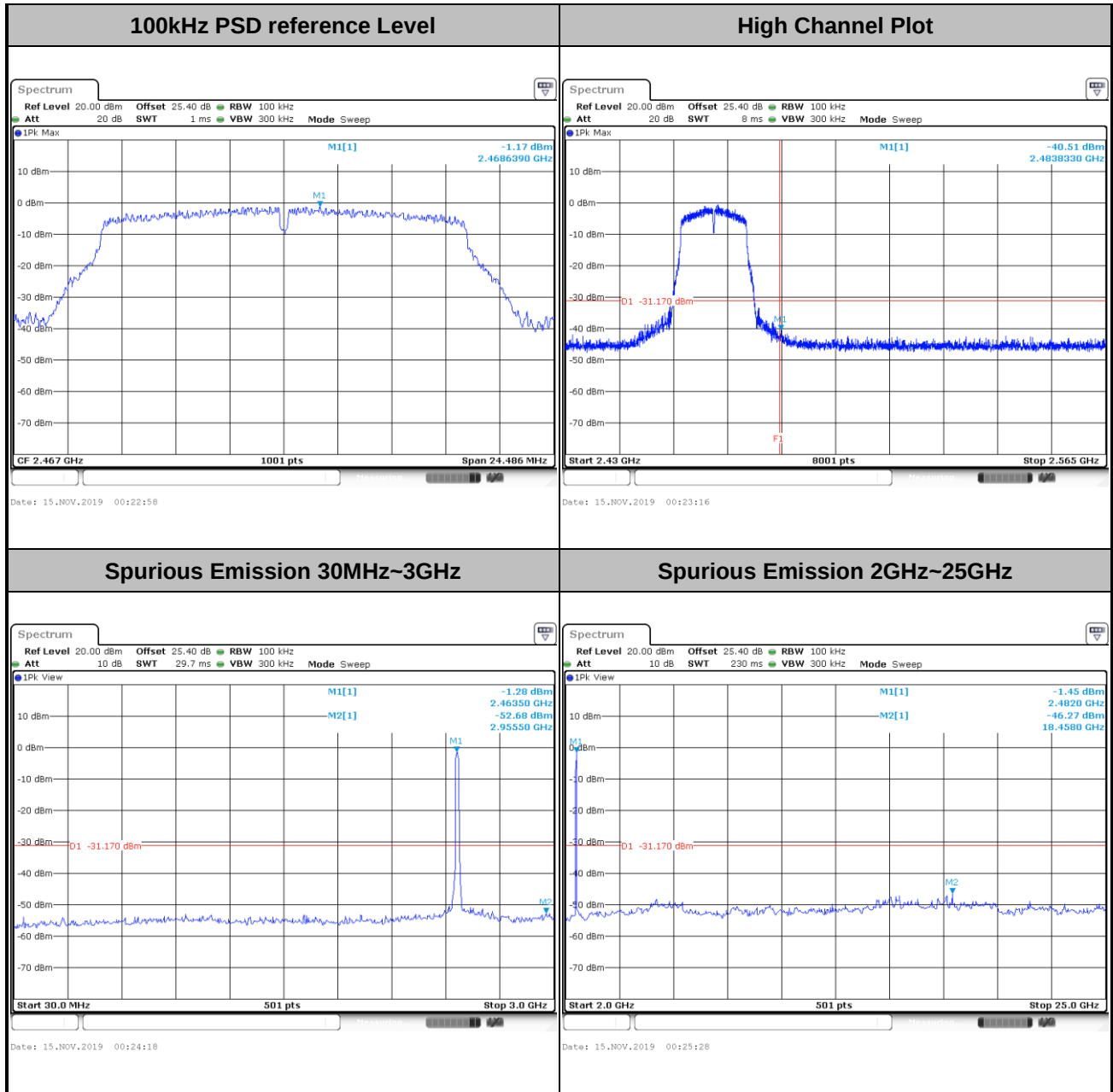


Test Mode :	802.11g	Test Channel :	11
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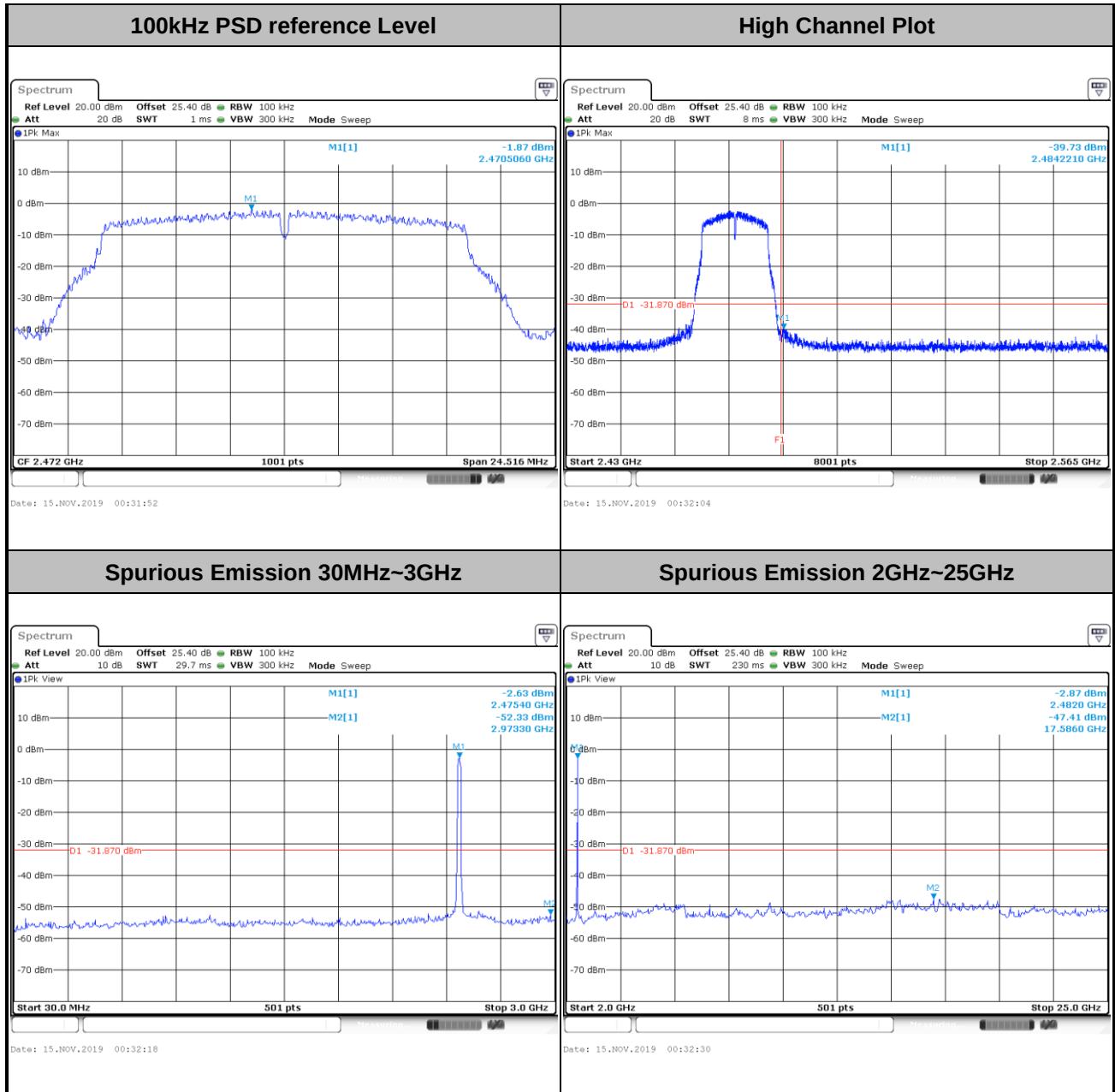


Test Mode :	802.11g	Test Channel :	12
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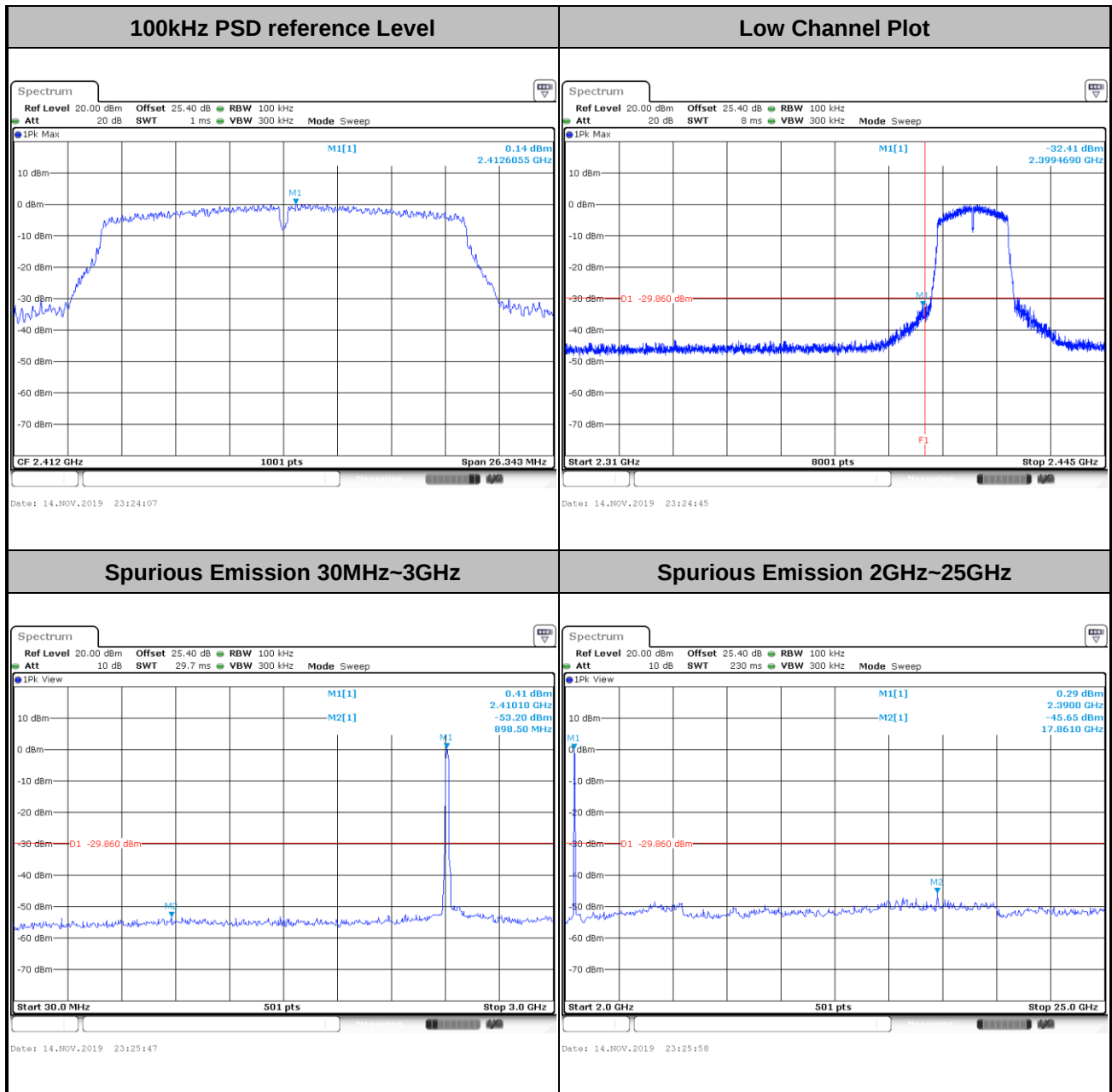


Test Mode :	802.11g	Test Channel :	13
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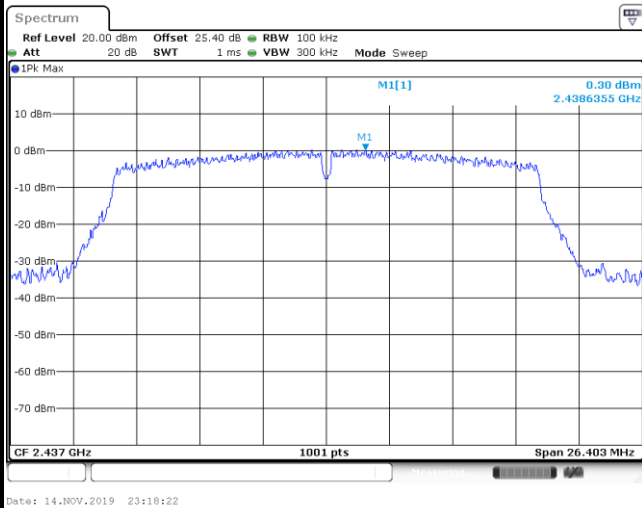
Test Mode :	802.11n HT20	Test Channel :	01
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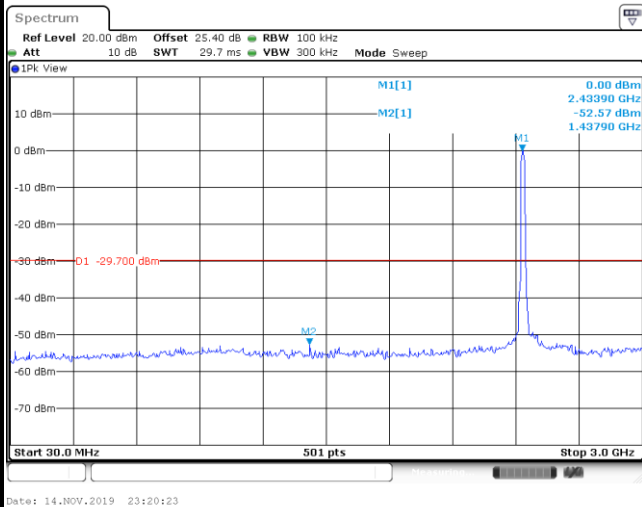
Test Mode :	802.11n HT20	Test Channel :	06
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100kHz PSD reference Level

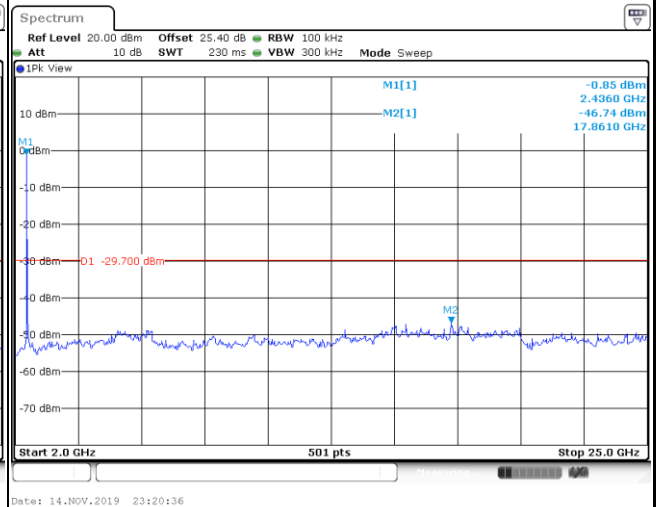


Mid Channel Plot

Spurious Emission 30MHz~3GHz



Spurious Emission 2GHz~25GHz

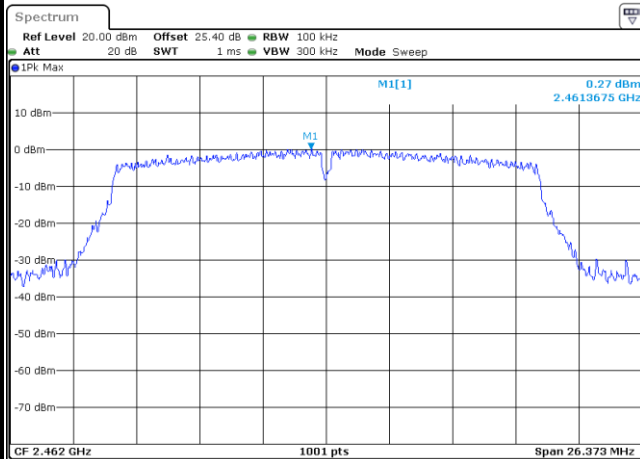




Test Mode :	802.11n HT20	Test Channel :	11
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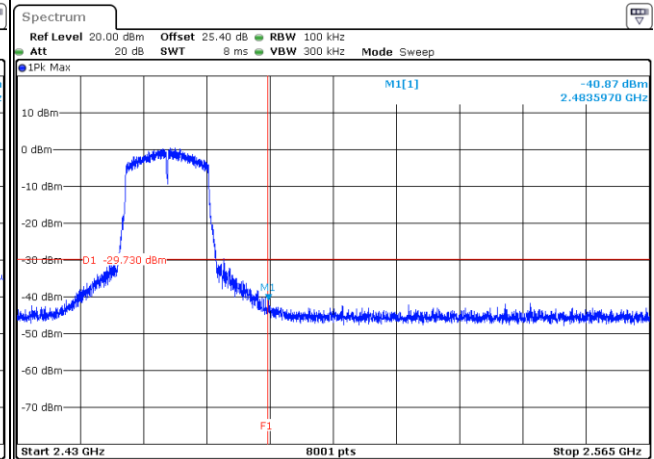
WLAN 802.11n HT20 Channel 11

100kHz PSD reference Level



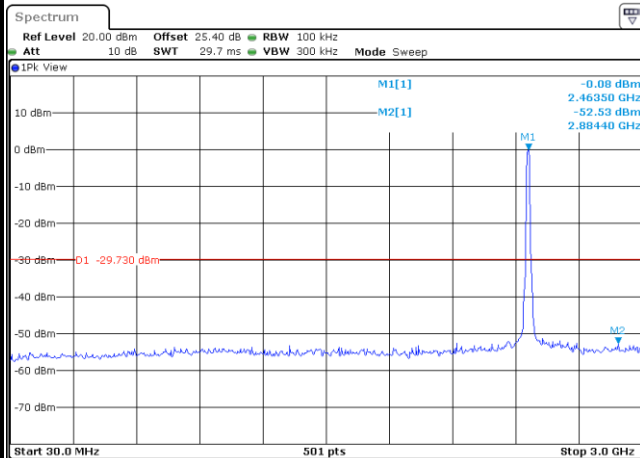
Date: 14.NOV.2019 23:14:28

High Channel Plot



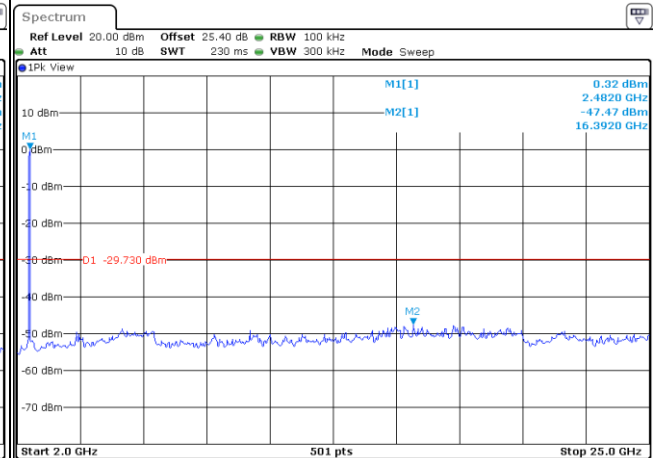
Date: 14.NOV.2019 23:14:49

Spurious Emission 30MHz~3GHz



Date: 14.NOV.2019 23:15:07

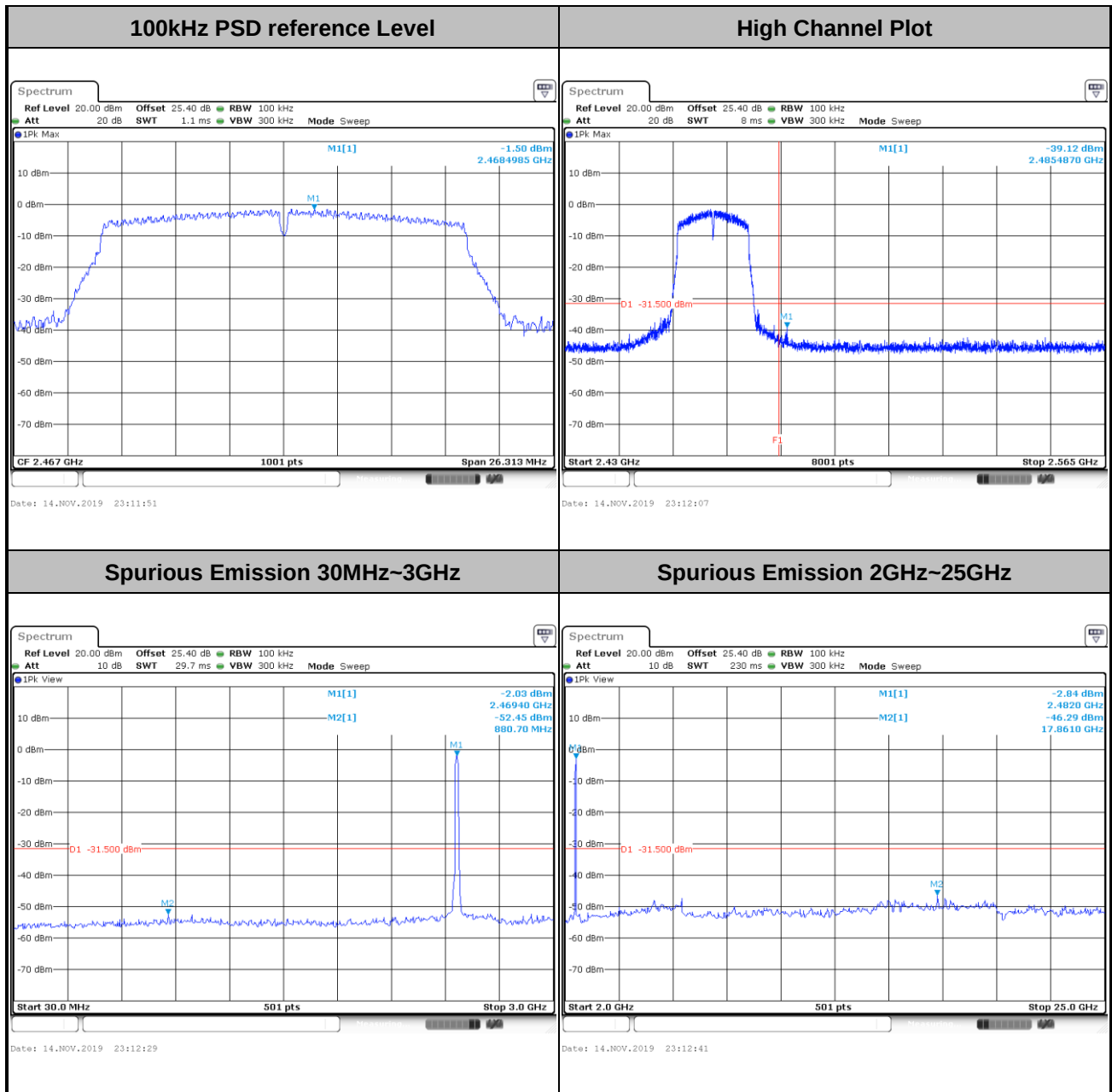
Spurious Emission 2GHz~25GHz



Date: 14.NOV.2019 23:15:29

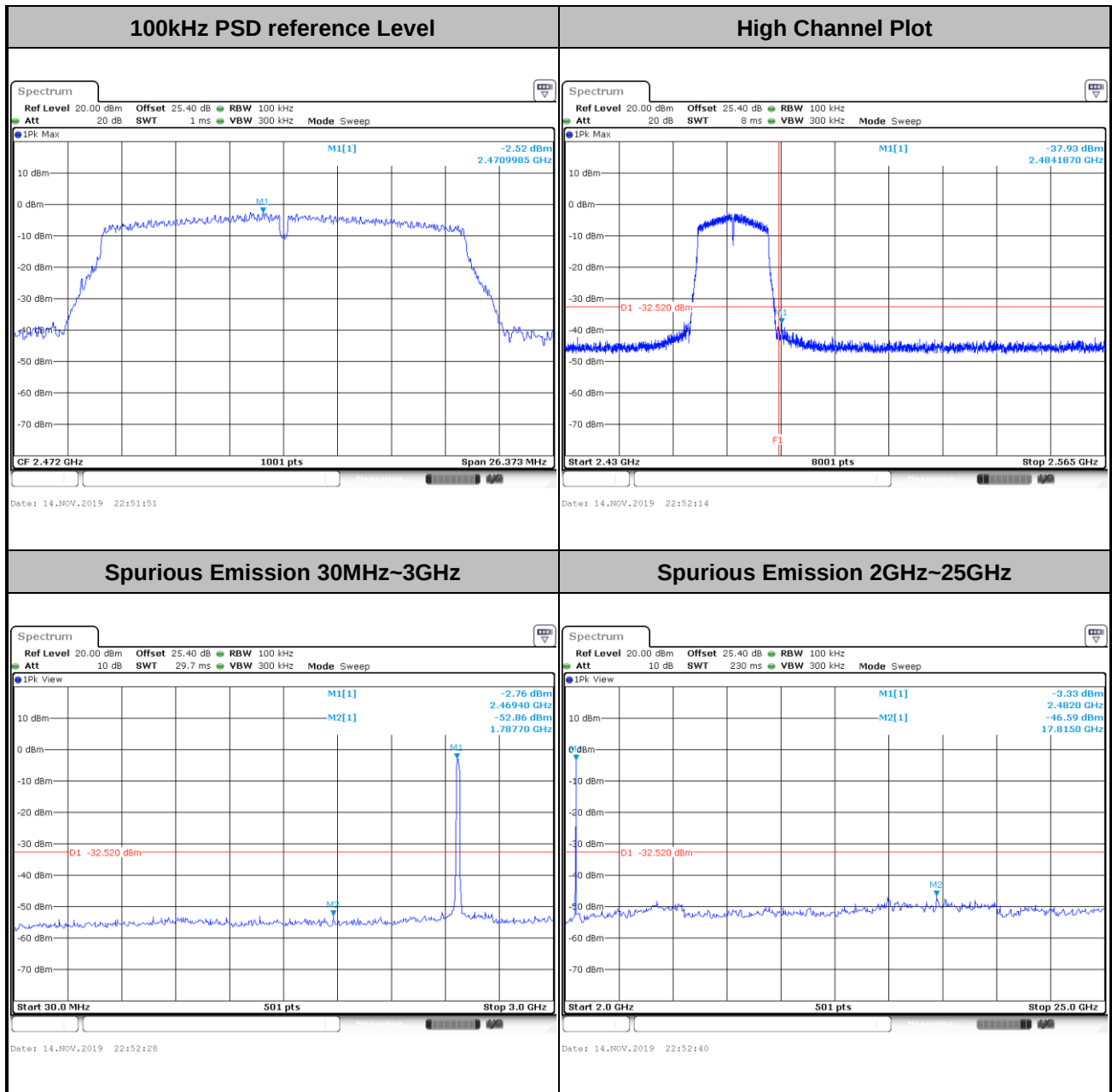


Test Mode :	802.11n HT20	Test Channel :	12
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Test Mode :	802.11n HT20	Test Channel :	13
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3.5 Radiated Band Edges and Spurious Emission Measurement

3.5.1 Limit of Radiated band edge and Spurious Emission Measurement

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

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

3.5.2 Measuring Instruments

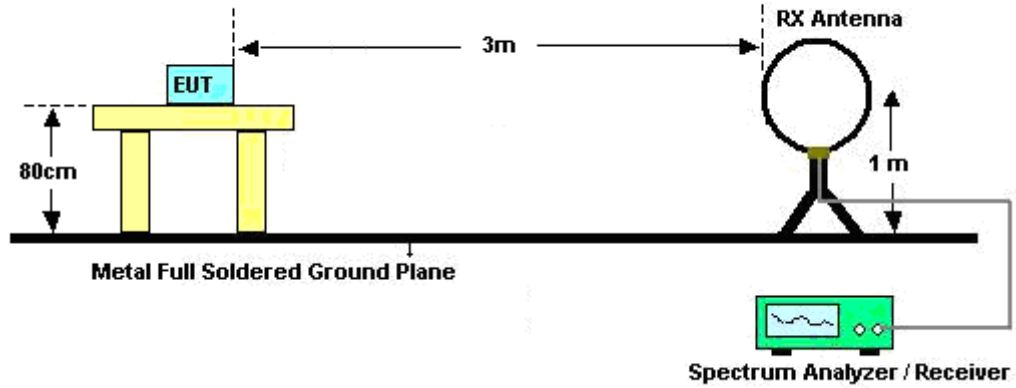
See list of measuring equipment of this test report.

3.5.3 Test Procedures

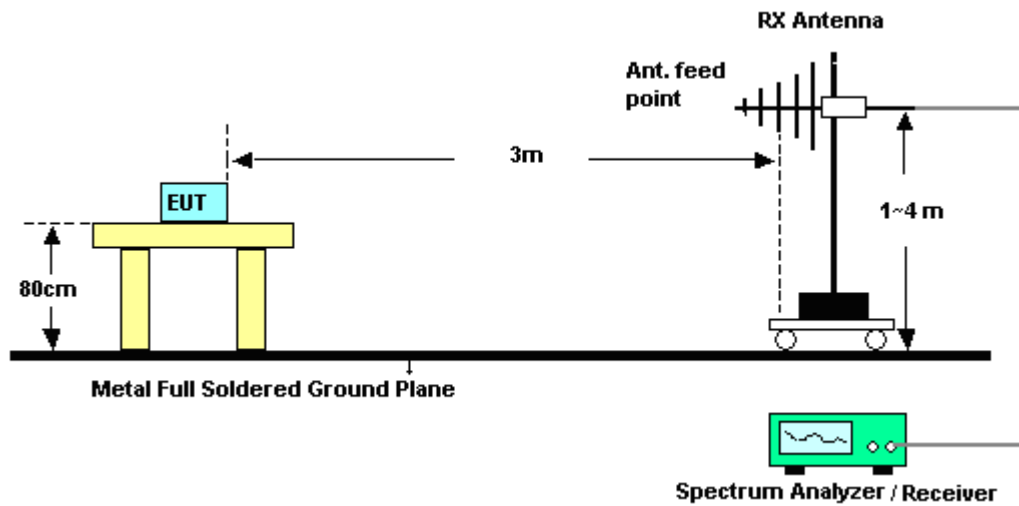
1. The testing follows the ANSI C63.10 Section 11.12.1 Radiated emission measurements.
2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the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

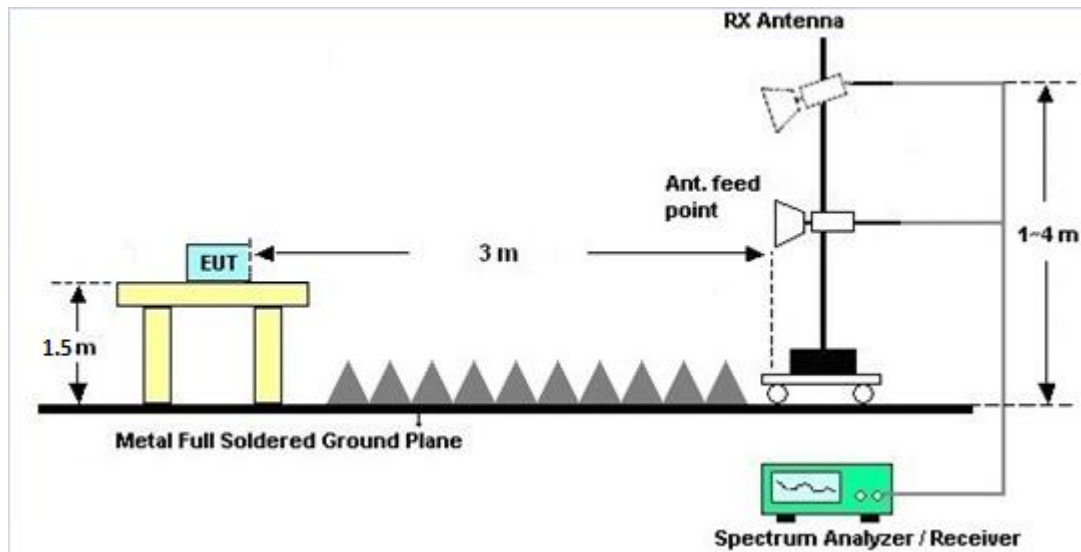
For radiated emissions below 30MHz



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.

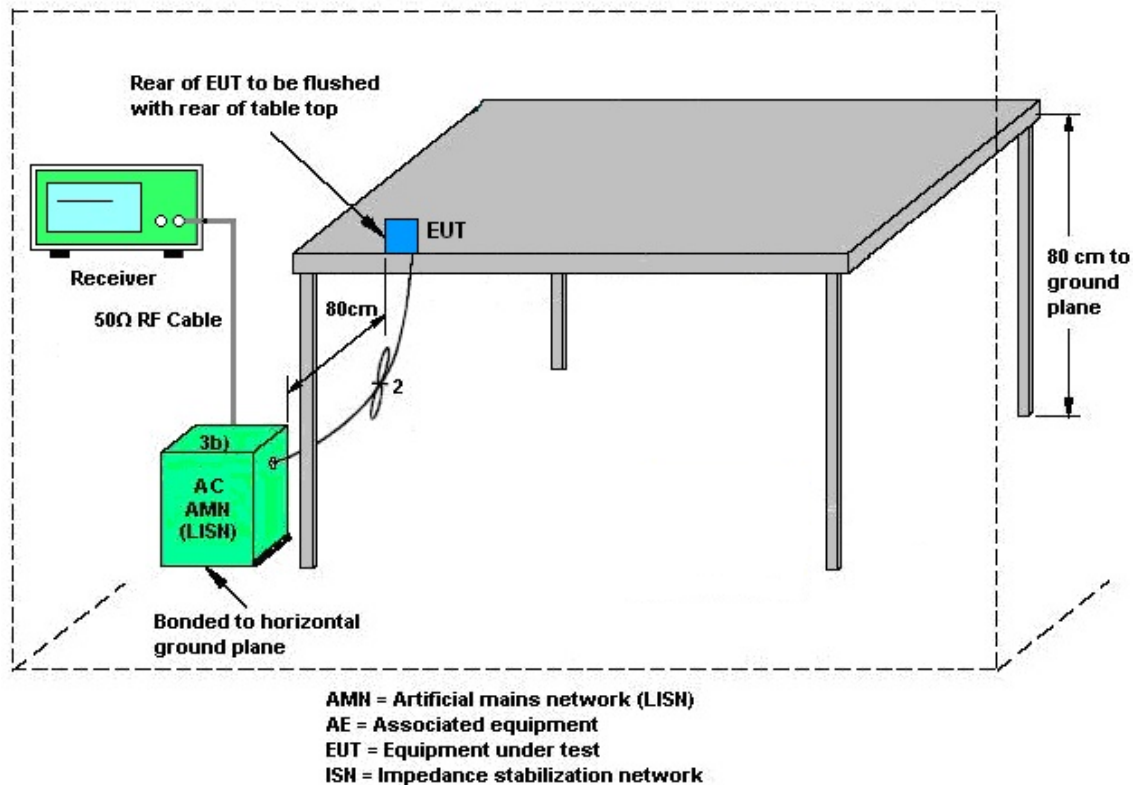
3.6.2 Measuring Instruments

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
Hygrometer	Testo	608-H2	41410069	N/A	Jun. 17, 2019	Nov. 12, 2019~ Nov. 17, 2019	Jun. 16, 2020	Conducted (TH05-HY)
Power Sensor	DARE	RPR3006W	16I00054S NO10	10MHz~6GHz	Dec. 19, 2018	Nov. 12, 2019~ Nov. 17, 2019	Dec. 18 2019	Conducted (TH05-HY)
Signal Analyzer	Rohde & Schwarz	FSV40	101566	10Hz~40GHz	Jul. 15, 2019	Nov. 12, 2019~ Nov. 17, 2019	Jul. 14, 2020	Conducted (TH05-HY)
Switch Box & RF Cable	Burgeon	ETF-058	EC120838 2	N/A	Mar. 27, 2019	Nov. 12, 2019~ Nov. 17, 2019	Mar. 26, 2020	Conducted (TH05-HY)
AC Power Source	ChainTek	APC-1000W	N/A	N/A	N/A	Jan. 07, 2020	N/A	Conduction (CO05-HY)
EMI Test Receiver	Rohde & Schwarz	ESR3	102388	9kHz~3.6GHz	Nov. 15, 2019	Jan. 07, 2020	Nov. 14, 2020	Conduction (CO05-HY)
Hygrometer	Testo	608-H1	34913912	N/A	Mar. 19, 2019	Jan. 07, 2020	Mar. 18, 2020	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100081	9kHz~30MHz	Nov. 15, 2019	Jan. 07, 2020	Nov. 14, 2020	Conduction (CO05-HY)
Software	Rohde & Schwarz	EMC32 V10.30	N/A	N/A	N/A	Jan. 07, 2020	N/A	Conduction (CO05-HY)
LF Cable	HUBER + SUHNER	RG-214/U	LF01	N/A	Jan. 02, 2020	Jan. 07, 2020	Jan. 01, 2021	Conduction (CO05-HY)
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100851	N/A	Jan. 02, 2020	Jan. 07, 2020	Jan. 01, 2021	Conduction (CO05-HY)



Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100488	9 kHz~30 MHz	Jan. 07, 2019	Nov. 11, 2019~ Dec. 23, 2019	Jan. 06, 2020	Radiation (03CH15-HY)
Preamplifier	EMEC	EM18G40G	060715	18GHz ~ 40GHz	Dec. 06, 2018	Nov. 11, 2019~ Dec. 03, 2019	Dec. 05, 2019	Radiation (03CH15-HY)
Preamplifier	EMEC INSTRUMENT S&PE	EMC184045B &PE7005-6	980192	18GHz ~ 40GHz	Aug. 01, 2019	Dec. 04, 2019~ Dec. 23, 2019	Jul. 31, 2020	Radiation (03CH15-HY)
Bilog Antenna	TESEQ	CBL6111D&0 0800N1D01N- 06	41912&05	30MHz to 1GHz	Feb. 12, 2019	Nov. 11, 2019~ Dec. 23, 2019	Feb. 11, 2020	Radiation (03CH15-HY)
Horn Antenna	SCHWARZBE CK	BBHA 9120 D	9120D-211 4	1-18GHz	Jul. 31, 2019	Nov. 11, 2019~ Dec. 23, 2019	Jul. 30, 2020	Radiation (03CH15-HY)
SHF-EHF Horn Antenna	SCHWARZBE CK	BBHA 9170	BBHA9170 584	18GHz- 40GHz	Dec. 05, 2018	Nov. 11, 2019~ Dec. 03, 2019	Dec. 04, 2019	Radiation (03CH15-HY)
SHF-EHF Horn Antenna	SCHWARZBE CK	BBHA 9170	BBHA9170 576	18GHz~40GHz	May 14, 2019	Dec. 04, 2019~ Dec. 23, 2019	May 13, 2020	Radiation (03CH15-HY)
Amplifier	SONOMA	310N	363440	9kHz~1GHz	Dec. 28, 2018	Nov. 11, 2019~ Dec. 23, 2019	Dec. 27, 2019	Radiation (03CH15-HY)
Preamplifier	Jet-Power	JPA0118-55-3 03	171000180 0054001	1GHz~18GHz	May 19, 2019	Nov. 11, 2019~ Dec. 23, 2019	May 18, 2020	Radiation (03CH15-HY)
Preamplifier	Keysight	83017A	MY532701 95	1GHz~26.5GHz	Aug. 23, 2019	Nov. 11, 2019~ Dec. 23, 2019	Aug. 22, 2020	Radiation (03CH15-HY)
EMI Test Receiver	Keysight	N9038A(MXE)	MY541300 85	20MHz~8.4GHz	Nov. 01, 2019	Nov. 11, 2019~ Dec. 23, 2019	Oct. 31, 2020	Radiation (03CH15-HY)
EMI Test Receiver	Rohde & Schwarz	ESU26	100390	20Hz~26.5GHz	Dec. 27, 2018	Nov. 11, 2019~ Dec. 23, 2019	Dec. 26, 2019	Radiation (03CH15-HY)
Controller	ChainTek	3000-1	N/A	Control Turn table & Ant Mast	N/A	Nov. 11, 2019~ Dec. 23, 2019	N/A	Radiation (03CH15-HY)
Antenna Mast	ChainTek	MBS-520-1	N/A	1m~4m	N/A	Nov. 11, 2019~ Dec. 23, 2019	N/A	Radiation (03CH15-HY)
Turn Table	ChainTek	T-200-S-1	N/A	0~360 Degree	N/A	Nov. 11, 2019~ Dec. 23, 2019	N/A	Radiation (03CH15-HY)
Software	Audix	E3 6.2009-8-24(k 5)	RK-00045 1	N/A	N/A	Nov. 11, 2019~ Dec. 23, 2019	N/A	Radiation (03CH15-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY36980/ 4	30M-18G	Apr. 15, 2019	Nov. 11, 2019~ Dec. 23, 2019	Apr. 14, 2020	Radiation (03CH15-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY9838/4 PE	30M-18G	Apr. 15, 2019	Nov. 11, 2019~ Dec. 23, 2019	Apr. 14, 2020	Radiation (03CH15-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY802430 /4	30M~18GHz	May 13, 2019	Nov. 11, 2019~ Dec. 23, 2019	May 12, 2020	Radiation (03CH15-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	505134/2	30MHz-40GHz	Feb. 26, 2019	Nov. 11, 2019~ Dec. 23, 2019	Feb. 25, 2020	Radiation (03CH15-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	800740/2	30MHz-40GHz	Feb. 26, 2019	Nov. 11, 2019~ Dec. 23, 2019	Feb. 25, 2020	Radiation (03CH15-HY)
Filter	Wainwright	WLK4-1000-1 530-8000-40S S	SN4	1.53G Low Pass	Jul. 04, 2019	Nov. 11, 2019~ Dec. 23, 2019	Jul. 03, 2020	Radiation (03CH15-HY)
Filter	Wainwright	WHKX12-270 0-3000-18000 -60ST	SN2	3GHz High Pass Filter	Jul. 17, 2019	Nov. 11, 2019~ Dec. 23, 2019	Jul. 14, 2020	Radiation (03CH15-HY)

5 Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	2.0
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Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

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

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

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

Test Engineer:	Derek Hsu	Temperature:	21~25	°C
Test Date:	2019/11/12~2019/11/17	Relative Humidity:	51~54	%
Tool & Version	CMD			

TEST RESULTS DATA
6dB and 99% Occupied Bandwidth

2.4GHz Band										
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Occupied BW (MHz)		6dB BW (MHz)		6dB BW Limit (MHz)	Pass/Fail
					Ant1	Ant2	Ant1	Ant2		
11b	1Mbps	1	1	2412	12.89	12.89	8.03	8.01	0.50	Pass
11b	1Mbps	1	6	2437	12.89	12.89	8.05	8.03	0.50	Pass
11b	1Mbps	1	11	2462	12.89	12.89	8.03	7.55	0.50	Pass
11b	1Mbps	1	12	2467	12.94	12.94	8.03	7.99	0.50	Pass
11b	1Mbps	1	13	2472	12.94	12.94	7.53	8.03	0.50	Pass
11g	6Mbps	1	1	2412	16.78	16.68	16.32	16.32	0.50	Pass
11g	6Mbps	1	6	2437	16.78	16.73	16.32	16.32	0.50	Pass
11g	6Mbps	1	11	2462	16.78	16.73	16.32	16.30	0.50	Pass
11g	6Mbps	1	12	2467	16.73	16.68	16.32	16.32	0.50	Pass
11g	6Mbps	1	13	2472	16.68	16.68	16.34	16.34	0.50	Pass
HT20	MCS0	1	1	2412	17.73	17.73	17.58	17.56	0.50	Pass
HT20	MCS0	1	6	2437	17.78	17.73	17.56	17.60	0.50	Pass
HT20	MCS0	1	11	2462	17.78	17.78	17.56	17.58	0.50	Pass
HT20	MCS0	1	12	2467	17.68	17.73	17.58	17.54	0.50	Pass
HT20	MCS0	1	13	2472	17.73	17.68	17.56	17.58	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
					Ant1	Ant2	SUM	Ant1	Ant2	Ant1	Ant2	Ant1	Ant2	Ant1	Ant2	
11b	1Mbps	1	1	2412	14.90	15.20	-	30.00	30.00	2.80	2.80	17.70	18.00	36.00	36.00	Pass
11b	1Mbps	1	6	2437	14.90	15.10		30.00	30.00	2.80	2.80	17.70	17.90	36.00	36.00	Pass
11b	1Mbps	1	11	2462	15.10	15.20		30.00	30.00	2.80	2.80	17.90	18.00	36.00	36.00	Pass
11b	1Mbps	1	12	2467	15.10	15.30		30.00	30.00	2.80	2.80	17.90	18.10	36.00	36.00	Pass
11b	1Mbps	1	13	2472	14.60	15.10		30.00	30.00	2.80	2.80	17.40	17.90	36.00	36.00	Pass
11g	6Mbps	1	1	2412	14.20	14.10		30.00	30.00	2.80	2.80	17.00	16.90	36.00	36.00	Pass
11g	6Mbps	1	6	2437	14.20	14.20		30.00	30.00	2.80	2.80	17.00	17.00	36.00	36.00	Pass
11g	6Mbps	1	11	2462	14.20	14.30		30.00	30.00	2.80	2.80	17.00	17.10	36.00	36.00	Pass
11g	6Mbps	1	12	2467	13.10	11.90		30.00	30.00	2.80	2.80	15.90	14.70	36.00	36.00	Pass
11g	6Mbps	1	13	2472	11.30	11.00		30.00	30.00	2.80	2.80	14.10	13.80	36.00	36.00	Pass
HT20	MCS0	1	1	2412	14.10	14.30		30.00	30.00	2.80	2.80	16.90	17.10	36.00	36.00	Pass
HT20	MCS0	1	6	2437	14.20	14.00		30.00	30.00	2.80	2.80	17.00	16.80	36.00	36.00	Pass
HT20	MCS0	1	11	2462	14.00	14.00		30.00	30.00	2.80	2.80	16.80	16.80	36.00	36.00	Pass
HT20	MCS0	1	12	2467	12.90	12.30		30.00	30.00	2.80	2.80	15.70	15.10	36.00	36.00	Pass
HT20	MCS0	1	13	2472	9.40	10.80		30.00	30.00	2.80	2.80	12.20	13.60	36.00	36.00	Pass

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

TEST RESULTS DATA
Peak Power Spectral Density

2.4GHz Band												
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Peak PSD (dBm/3kHz)			DG (dBi)		Peak PSD Limit (dBm/3kHz)		Pass/Fail
					Ant1	Ant2	Worse + 3.01	Ant1	Ant2	Ant1	Ant2	
11b	1Mbps	1	1	2412	-8.28	-7.11	-	2.80	2.80	8.00	8.00	Pass
11b	1Mbps	1	6	2437	-7.88	-7.10	-	2.80	2.80	8.00	8.00	Pass
11b	1Mbps	1	11	2462	-7.04	-7.06	-	2.80	2.80	8.00	8.00	Pass
11b	1Mbps	1	12	2467	-7.46	-6.83	-	2.80	2.80	8.00	8.00	Pass
11b	1Mbps	1	13	2472	-7.33	-6.90	-	2.80	2.80	8.00	8.00	Pass
11g	6Mbps	1	1	2412	-9.66	-10.86	-	2.80	2.80	8.00	8.00	Pass
11g	6Mbps	1	6	2437	-10.15	-10.47	-	2.80	2.80	8.00	8.00	Pass
11g	6Mbps	1	11	2462	-10.90	-10.28	-	2.80	2.80	8.00	8.00	Pass
11g	6Mbps	1	12	2467	-12.34	-12.34	-	2.80	2.80	8.00	8.00	Pass
11g	6Mbps	1	13	2472	-13.95	-13.80	-	2.80	2.80	8.00	8.00	Pass
HT20	MCS0	1	1	2412	-11.19	-10.75	-	2.80	2.80	8.00	8.00	Pass
HT20	MCS0	1	6	2437	-10.53	-10.96	-	2.80	2.80	8.00	8.00	Pass
HT20	MCS0	1	11	2462	-10.59	-10.72	-	2.80	2.80	8.00	8.00	Pass
HT20	MCS0	1	12	2467	-11.09	-12.32	-	2.80	2.80	8.00	8.00	Pass
HT20	MCS0	1	13	2472	-16.11	-13.49	-	2.80	2.80	8.00	8.00	Pass

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



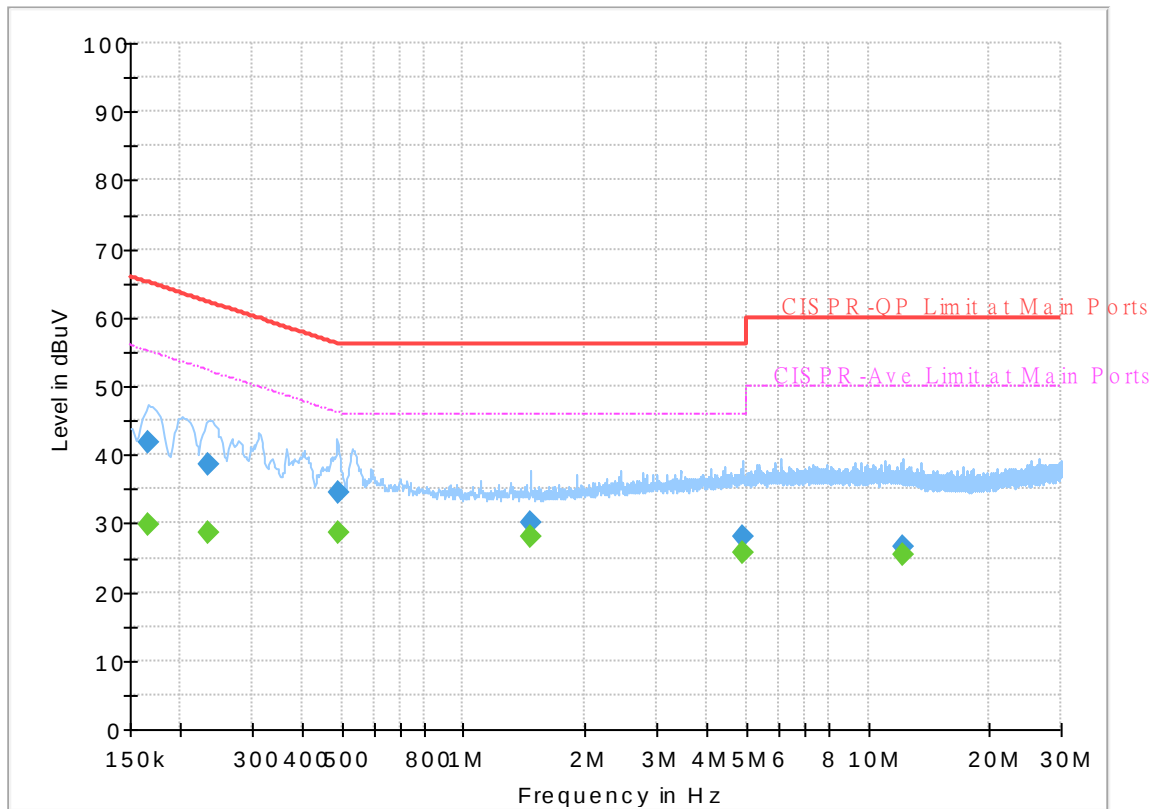
Appendix B. AC Conducted Emission Test Results

Test Engineer :	Howard Huang	Temperature :	24~26℃
		Relative Humidity :	52~55%

EUT Information

Report NO : 982217-01
Test Mode : Mode 1
Test Voltage : 120Vac/60Hz
Phase : Line

Full Spectrum



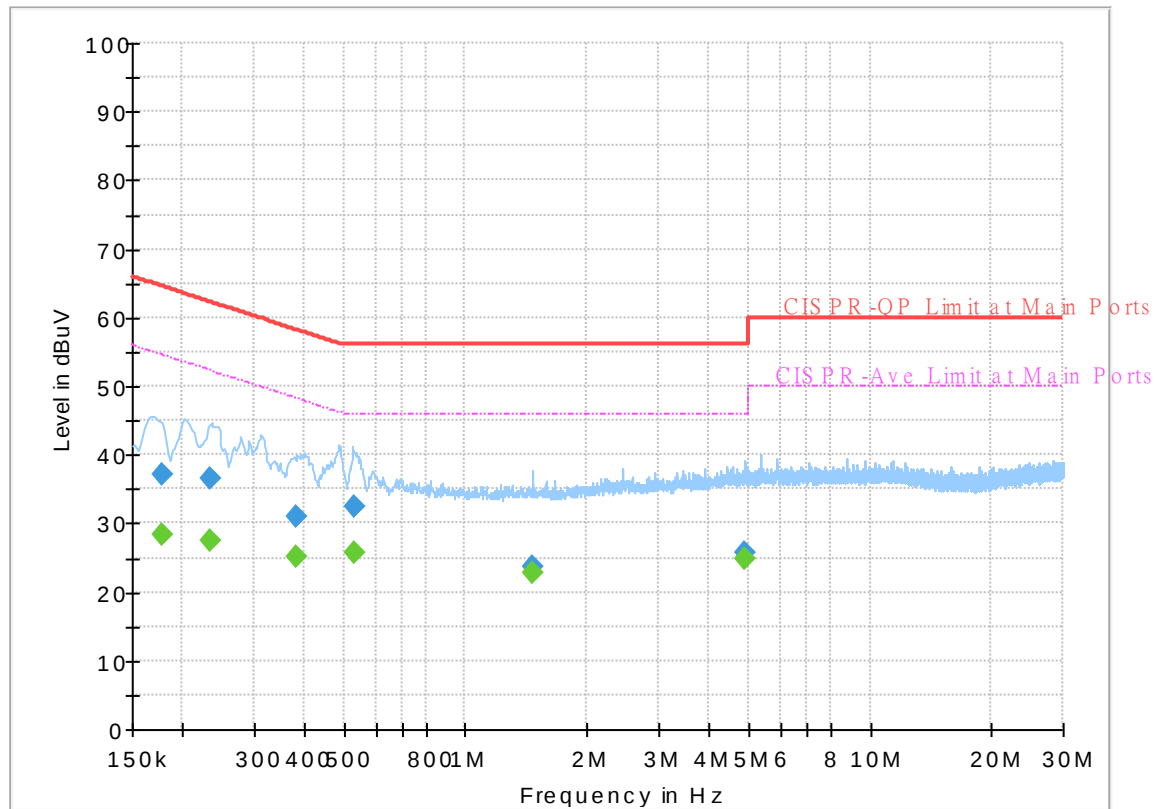
Final Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.165750	---	29.86	55.17	25.31	L1	OFF	19.5
0.165750	41.89	---	65.17	23.28	L1	OFF	19.5
0.233430	---	28.61	52.33	23.72	L1	OFF	19.5
0.233430	38.71	---	62.33	23.62	L1	OFF	19.5
0.490290	---	28.79	46.16	17.37	L1	OFF	19.5
0.490290	34.55	---	56.16	21.61	L1	OFF	19.5
1.470120	---	27.95	46.00	18.05	L1	OFF	19.6
1.470120	30.06	---	56.00	25.94	L1	OFF	19.6
4.897410	---	25.85	46.00	20.15	L1	OFF	19.7
4.897410	27.97	---	56.00	28.03	L1	OFF	19.7
12.234750	---	25.33	50.00	24.67	L1	OFF	20.1
12.234750	26.67	---	60.00	33.33	L1	OFF	20.1

EUT Information

Report NO : 982217-01
Test Mode : Mode 1
Test Voltage : 120Vac/60Hz
Phase : Neutral

Full Spectrum



Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.177000	---	28.36	54.63	26.27	N	OFF	19.6
0.177000	37.12	---	64.63	27.51	N	OFF	19.6
0.233250	---	27.63	52.33	24.70	N	OFF	19.6
0.233250	36.49	---	62.33	25.84	N	OFF	19.6
0.380670	---	25.26	48.27	23.01	N	OFF	19.6
0.380670	31.14	---	58.27	27.13	N	OFF	19.6
0.532500	---	25.66	46.00	20.34	N	OFF	19.6
0.532500	32.46	---	56.00	23.54	N	OFF	19.6
1.464000	---	22.74	46.00	23.26	N	OFF	19.6
1.464000	23.79	---	56.00	32.21	N	OFF	19.6
4.899750	---	24.77	46.00	21.23	N	OFF	19.8
4.899750	25.60	---	56.00	30.40	N	OFF	19.8



Appendix C. Radiated Spurious Emission

Test Engineer :	Leo Li, Mancy Chou and Bigshow Wang	Temperature :	24.2~24.4°C
		Relative Humidity :	54~63%

<EUT with Adapter Mode>

2.4GHz 2400~2483.5MHz

WIFI 802.11b (Band Edge @ 3m)

WIFI Ant.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Path Loss	Preampl Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11b CH 01 2412MHz		2341.185	55.26	-18.74	74	42.44	27.9	16.09	31.17	100	259	P	H
		2386.335	44.18	-9.82	54	31.35	27.83	16.15	31.15	100	259	A	H
	*	2412	104.99	-	-	92.14	27.8	16.18	31.13	100	259	P	H
	*	2412	101.91	-	-	89.06	27.8	16.18	31.13	100	259	A	H
		2365.23	54.82	-19.18	74	41.99	27.87	16.12	31.16	389	62	P	V
		2386.44	44.41	-9.59	54	31.58	27.83	16.15	31.15	389	62	A	V
	*	2412	105.07	-	-	92.22	27.8	16.18	31.13	389	62	P	V
	*	2412	101.98	-	-	89.13	27.8	16.18	31.13	389	62	A	V
802.11b CH 06 2437MHz		2355.78	55.06	-18.94	74	42.22	27.89	16.11	31.16	100	255	P	H
		2388.82	43.95	-10.05	54	31.12	27.82	16.16	31.15	100	255	A	H
	*	2437	106.88	-	-	93.99	27.8	16.21	31.12	100	255	P	H
	*	2437	103.97	-	-	91.08	27.8	16.21	31.12	100	255	A	H
		2489.71	54.44	-19.56	74	41.56	27.72	16.26	31.1	100	255	P	H
		2484.04	44.16	-9.84	54	31.28	27.73	16.25	31.1	100	255	A	H
		2335.06	54.54	-19.46	74	41.72	27.9	16.09	31.17	335	54	P	V
		2388.82	44.1	-9.9	54	31.27	27.82	16.16	31.15	335	54	A	V
	*	2437	106.07	-	-	93.18	27.8	16.21	31.12	335	54	P	V
	*	2437	102.94	-	-	90.05	27.8	16.21	31.12	335	54	A	V
		2490.13	54.17	-19.83	74	41.28	27.72	16.26	31.09	335	54	P	V
		2483.69	43.85	-10.15	54	30.97	27.73	16.25	31.1	335	54	A	V



802.11b CH 11 2462MHz	*	2462	107.08	-	-	94.18	27.78	16.23	31.11	100	255	P	H
	*	2462	103.97	-	-	91.07	27.78	16.23	31.11	100	255	A	H
		2495.72	54.81	-19.19	74	41.92	27.71	16.27	31.09	100	255	P	H
		2486.52	44.85	-9.15	54	31.96	27.73	16.26	31.1	100	255	A	H
	*	2462	105.33	-	-	92.43	27.78	16.23	31.11	382	60	P	V
	*	2462	102.2	-	-	89.3	27.78	16.23	31.11	382	60	A	V
		2488.32	55.14	-18.86	74	42.26	27.72	16.26	31.1	382	60	P	V
		2486.52	44.15	-9.85	54	31.26	27.73	16.26	31.1	382	60	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11b CH 12 2467MHz	*	2467	106.91	-	-	94.01	27.77	16.24	31.11	100	253	P	H
	*	2467	103.81	-	-	90.91	27.77	16.24	31.11	100	253	A	H
		2483.96	57.25	-16.75	74	44.37	27.73	16.25	31.1	100	253	P	H
		2483.92	49.22	-4.78	54	36.34	27.73	16.25	31.1	100	253	A	H
	*	2467	105.1	-	-	92.2	27.77	16.24	31.11	368	51	P	V
	*	2467	102	-	-	89.1	27.77	16.24	31.11	368	51	A	V
		2483.84	55.82	-18.18	74	42.94	27.73	16.25	31.1	368	51	P	V
		2483.88	47.84	-6.16	54	34.96	27.73	16.25	31.1	368	51	A	V
802.11b CH 13 2472MHz	*	2472	106.31	-	-	93.41	27.76	16.24	31.1	100	253	P	H
	*	2472	103.22	-	-	90.32	27.76	16.24	31.1	100	253	A	H
		2484.56	59.13	-14.87	74	46.25	27.73	16.25	31.1	100	253	P	H
		2484.6	52.25	-1.75	54	39.37	27.73	16.25	31.1	100	253	A	H
	*	2472	104.71	-	-	91.81	27.76	16.24	31.1	367	54	P	V
	*	2472	101.62	-	-	88.72	27.76	16.24	31.1	367	54	A	V
		2483.92	57.95	-16.05	74	45.07	27.73	16.25	31.1	367	54	P	V
		2484.6	50.6	-3.4	54	37.72	27.73	16.25	31.1	367	54	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 Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11b CH 01 2412MHz		4824	48.43	-25.57	74	65.51	31.4	9.63	58.11	100	0	P	H
		4824	45.07	-28.93	74	62.15	31.4	9.63	58.11	100	0	P	V
802.11b CH 06 2437MHz		4874	49.42	-24.58	74	66.45	31.45	9.64	58.12	100	0	P	H
		7311	43.76	-30.24	74	52.79	36.78	11.69	57.5	100	0	P	H
		4874	43.81	-30.19	74	60.84	31.45	9.64	58.12	100	0	P	V
		7311	43.67	-30.33	74	52.7	36.78	11.69	57.5	100	0	P	V
802.11b CH 11 2462MHz		4924	48.51	-25.49	74	65.59	31.4	9.65	58.13	100	0	P	H
		7386	42.69	-31.31	74	51.72	36.63	11.74	57.4	100	0	P	H
		4924	43.47	-30.53	74	60.55	31.4	9.65	58.13	100	0	P	V
		7386	43.52	-30.48	74	52.55	36.63	11.74	57.4	100	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11b CH 12 2467MHz		4934	43.68	-30.32	74	60.78	31.4	9.64	58.14	100	0	P	H
		7401	43.68	-30.32	74	52.71	36.6	11.75	57.38	100	0	P	H
		4934	43.03	-30.97	74	60.13	31.4	9.64	58.14	100	0	P	V
		7401	43.37	-30.63	74	52.4	36.6	11.75	57.38	100	0	P	V
802.11b CH 13 2472MHz		4944	46.79	-27.21	74	63.88	31.4	9.65	58.14	100	0	P	H
		7416	43.77	-30.23	74	52.74	36.63	11.76	57.36	100	0	P	H
		4944	43.43	-30.57	74	60.52	31.4	9.65	58.14	100	0	P	V
		7416	43.18	-30.82	74	52.15	36.63	11.76	57.36	100	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												