



FCC RADIO TEST REPORT

FCC ID : A4RG013C
Equipment : Smartphone
Model Name : G013C
Applicant : Google LLC
1600 Amphitheatre Parkway,
Mountain View, California, 94043 USA
Standard : FCC Part 15 Subpart C §15.247

The test was completed on Jun. 29, 2018. We, SPORTON INTERNATIONAL INC., 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
FR820502-02C	01	Initial issue of report	Jun. 30, 2018



Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.1	15.247(a)(2)	6dB Bandwidth	Pass	-
3.1	2.1049	99% Occupied Bandwidth	Reporting only	-
3.2	15.247(b)	Power Output Measurement	Pass	-
3.3	15.247(e)	Power Spectral Density	Pass	-
3.4	15.247(d)	Conducted Band Edges	Pass	-
		Conducted Spurious Emission	Pass	-
3.5	15.247(d)	Radiated Band Edges and Radiated Spurious Emission	Pass	Under limit 0.75 dB at 2483.500 MHz
3.6	15.207	AC Conducted Emission	Pass	Under limit 7.26 dB at 13.560 MHz
3.7	15.203 & 15.247(b)	Antenna Requirement	Pass	-

Reviewed by: Joseph Lin

Report Producer: Maggie Chiang



1 General Description

1.1 Product Feature of Equipment Under Test

Product Feature	
Equipment	Smartphone
Model Name	G013C
FCC ID	A4RG013C
EUT supports Radios application	CDMA/EV-DO/GSM/EGPRS/WCDMA/HSPA/LTE/NFC/ GNSS/WPC WLAN 11b/g/n HT20/VHT20 WLAN 11a/n HT20/HT40 WLAN 11ac VHT20/VHT40/VHT80 Bluetooth BR/EDR/LE
EUT Stage	Identical Prototype

Remark: The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

EUT Information List	
No.	S/N
#1	85KY00936
#2	85LY009BE
#3	85LY00985

1.2 Product Specification of Equipment Under Test

Standards-related Product Specification			
Tx/Rx Channel Frequency Range	2412 MHz ~ 2472 MHz		
Maximum (Peak) Output Power to antenna	<Ant. 1> 802.11b : 21.52 dBm (0.1419 W) 802.11g : 22.17 dBm (0.1648 W) 802.11n HT20 : 22.22 dBm (0.1667 W) 802.11 ac VHT20 : 22.10 dBm (0.1622 W) <Ant. 2> 802.11b : 21.84 dBm (0.1528 W) 802.11g : 22.20 dBm (0.1660 W) 802.11n HT20 : 22.28 dBm (0.1690 W) 802.11 ac VHT20 : 22.13 dBm (0.1633 W) MIMO <Ant. 1+2> 802.11b : 24.71 dBm (0.2958 W) 802.11g : 25.22 dBm (0.3327 W) 802.11n HT20 : 25.30 dBm (0.3388 W) 802.11 ac VHT20 : 25.15 dBm (0.3273 W)		
99% Occupied Bandwidth	<Ant. 1> 802.11b : 14.30MHz 802.11g : 16.90MHz 802.11n HT20 : 18.20MHz <Ant. 2> 802.11b : 14.85MHz 802.11g : 17.05MHz 802.11n HT20 : 18.20MHz		
Antenna Type / Gain	<Ant. 1> slot Antenna type with gain -2.90 dBi <Ant. 2> integrated monopole Antenna type with gain -3.00 dBi		
Type of Modulation	802.11b : DSSS (DBPSK / DQPSK / CCK) 802.11g/n : OFDM (BPSK / QPSK / 16QAM / 64QAM) 802.11ac : OFDM (BPSK / QPSK / 16QAM / 64QAM / 256QAM)		
Antenna Function for Transmitter		Ant. 1	Ant. 2
	802.11 b/g/n/ac	V	V
	802.11 b/g/n/ac MIMO	V	V

1.3 Modification of EUT

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

1.4 Testing Location

Sporton Lab is accredited to ISO 17025 by Taiwan Accreditation Foundation (TAF code : 1190) and the FCC designation No. TW1190 and TW0007 under the FCC 2.948(e) by Mutual Recognition Agreement (MRA) in FCC Test.

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.

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 v04
- ♦ FCC KDB 662911 D01 Multiple Transmitter Output v02r01.
- ♦ ANSI C63.10-2013

Remark:

1. All test items were verified and recorded according to the standards and without any deviation during the test.
2. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.

2 Test Configuration of Equipment Under Test

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

2.1 Carrier Frequency and Channel

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
2400-2483.5 MHz	1	2412	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.

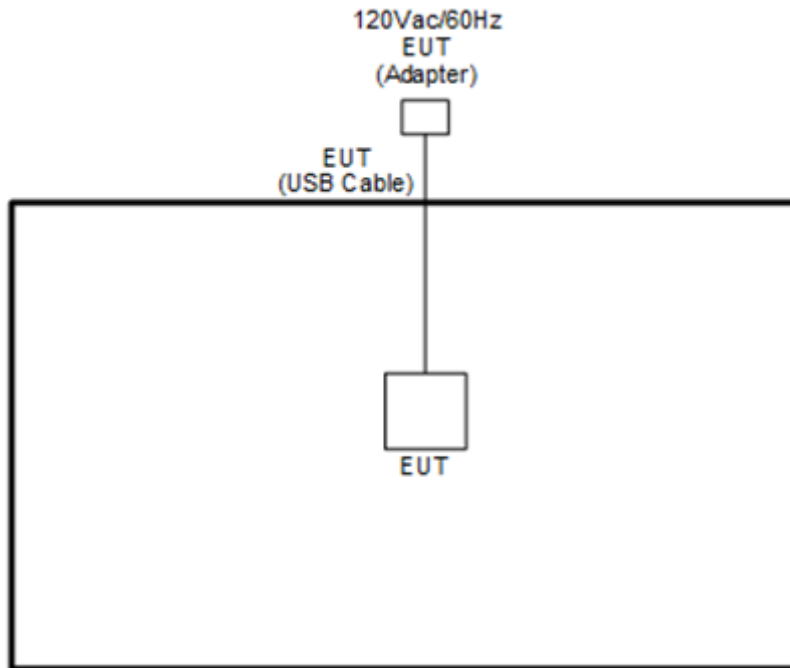
MIMO Antenna

Modulation	Data Rate
802.11b	1 Mbps
802.11g	6 Mbps
802.11n HT20	MCS0
802.11ac VHT20 (Covered by HT20)	MCS0

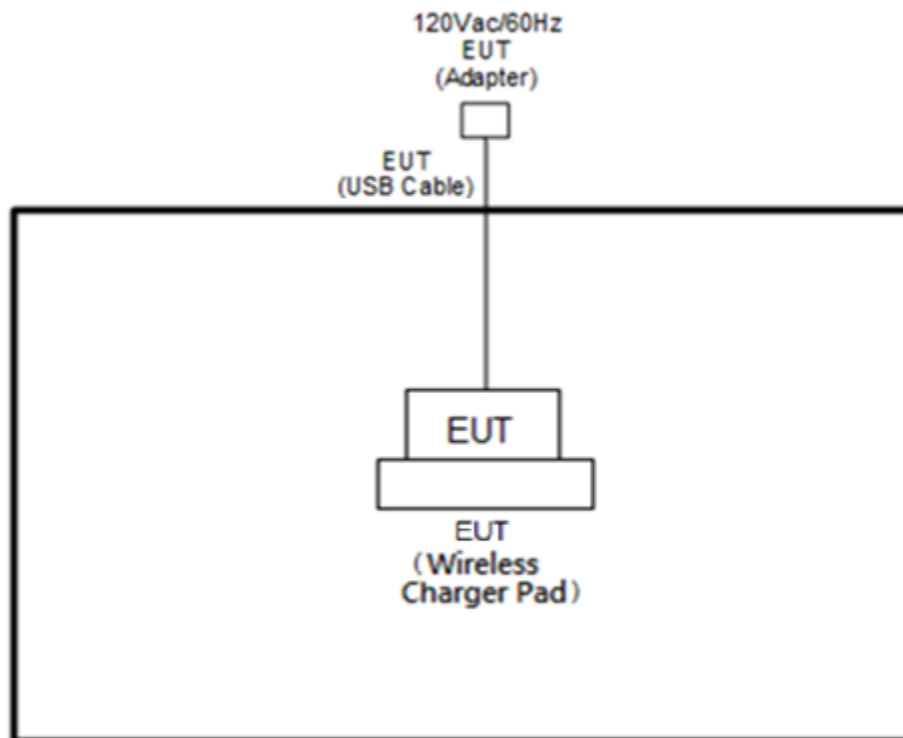
Test Cases	
AC Conducted Emission	Mode 1 :Mode 1: GSM1900 Idle + WLAN (2.4GHz) Link + Bluetooth Link + NFC Read On + USB Cable (Type C) (Charging from Adapter 1)
Remark: For Radiated Test Cases, the tests were performed with Adapter 1.	

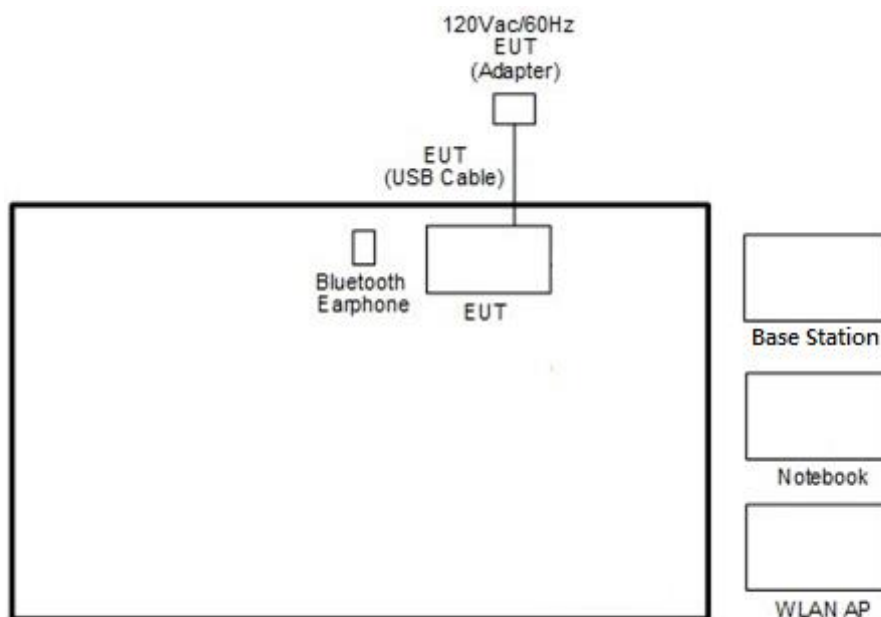
2.3 Connection Diagram of Test System

<WLAN Tx Mode>



< WLAN Tx with WPC Charging Mode>



<AC Conducted Emissions Mode>

2.4 Support Unit used in test configuration and system

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



2.5 EUT Operation Test Setup

The RF test items, utility “QRCT” 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.

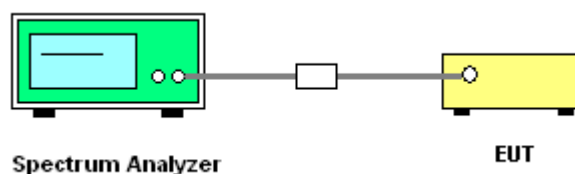
3.1.2 Measuring Instruments

See list of measuring equipment of this test report.

3.1.3 Test Procedures

1. The testing follows FCC KDB Publication No. 558074 DTS D01 Meas. Guidance v04.
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) = 1MHz and set the Video bandwidth (VBW) = 3MHz.
6. Measure and record the results in the test report.

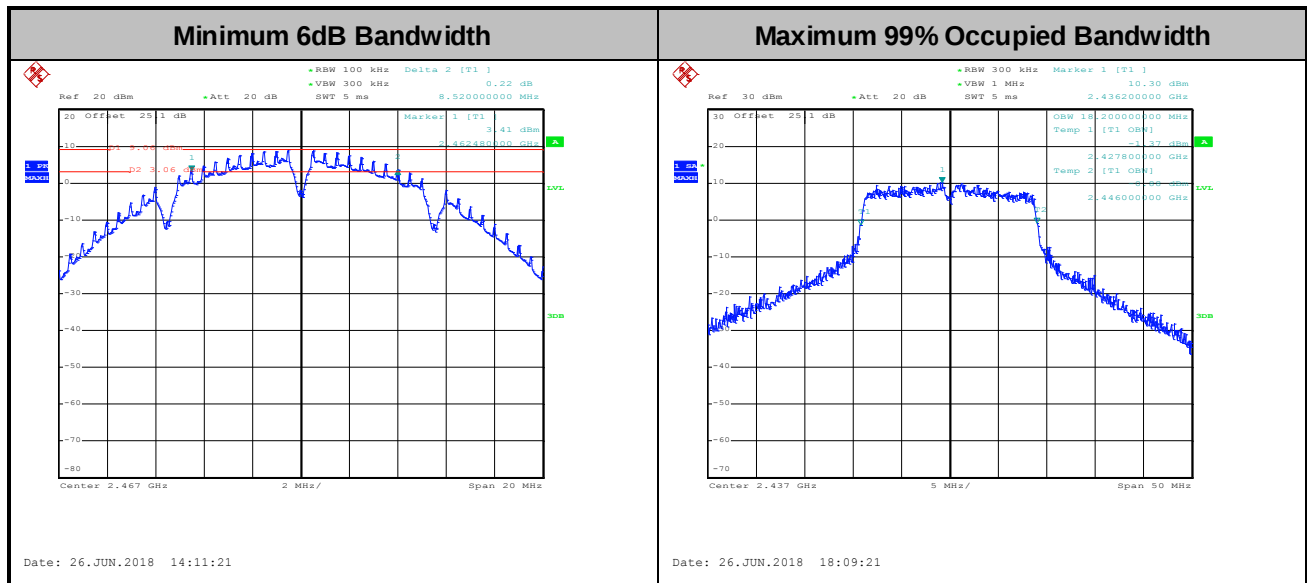
3.1.4 Test Setup





3.1.5 Test Result of 6dB and 99% Occupied Bandwidth

Please refer to Appendix A.



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

3.2 Output Power Measurement

3.2.1 Limit of Output Power

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

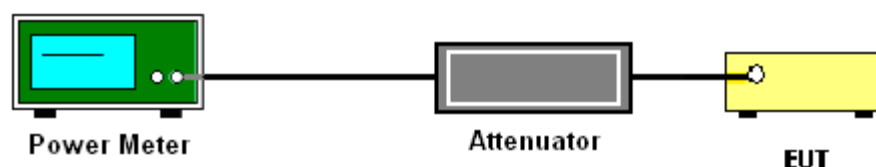
3.2.2 Measuring Instruments

See list of measuring equipment of this test report.

3.2.3 Test Procedures

1. For Peak Power, the testing follows the Measurement Procedure of FCC KDB No. 558074 DTS D01 Meas. Guidance v04 section 9.1.3 PKPM1 Peak power meter method.
2. For Average Power, the testing follows the Measurement Procedure of FCC KDB No. 558074 DTS D01 Meas. Guidance v04 section 9.2.3.2 Method AVGPM-G.
3. The RF output of EUT was connected to the power meter by RF cable and attenuator. The path loss was compensated to the results for each measurement.
4. Set to the maximum power setting and enable the EUT transmit continuously.
5. Measure the conducted output power and record the results in the test report.
6. For MIMO mode, calculation method follows FCC KDB 662911 D01 Multiple Transmitter Output v02r01.

3.2.4 Test Setup



3.2.5 Test Result of Peak Output Power

Please refer to Appendix A.

3.2.6 Test Result of Average output Power (Reporting Only)

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 Measurement Procedure 10.2 Method PKPSD of FCC KDB Publication No. 558074 D01 DTS Meas. Guidance v04
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.
7. For MIMO mode, calculation method follows FCC KDB 662911 D01 Multiple Transmitter Output v02r01.

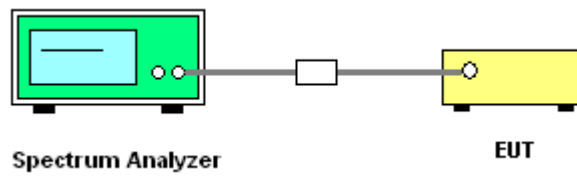
If measurements performed using method (2) plus $10 \log(N)$ exceeds the emission limit, the test should choose method (1) before declaring that the device fails the emission limit.

Method (1): Measure and sum the spectra across the outputs.

The total final Power Spectral Density is from a device with 2 transmitter outputs. The spectrum measurements of the individual outputs are all performed with the same span and number of points, the spectrum value in the first spectral bin of output 1 is summed with that in the first spectral bin of output 2 to obtain the value for the first frequency bin of the summed spectrum.

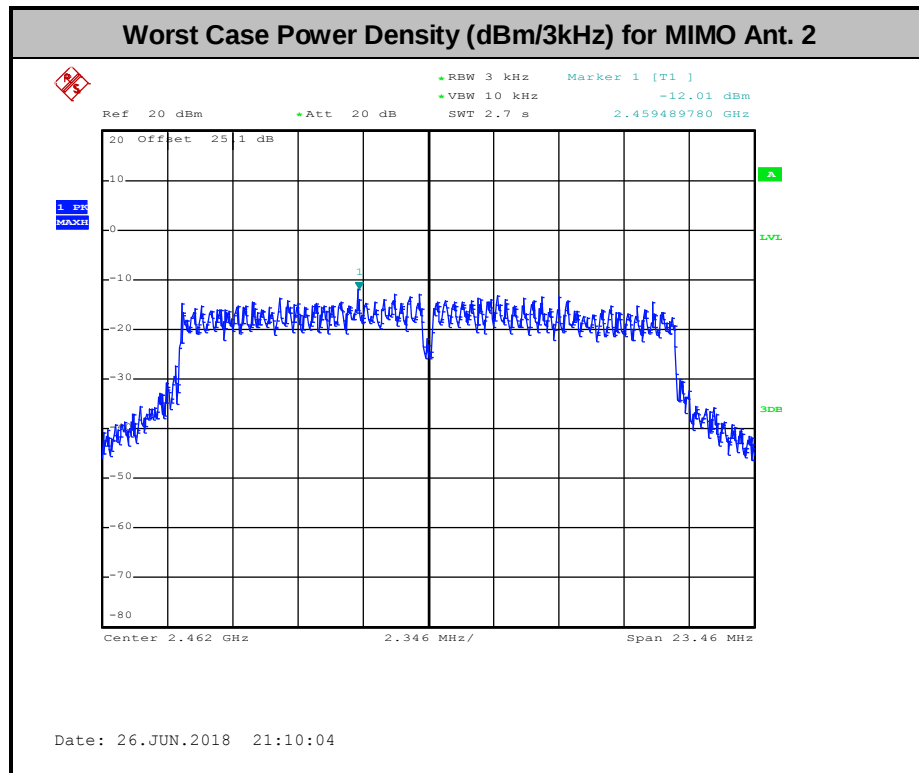
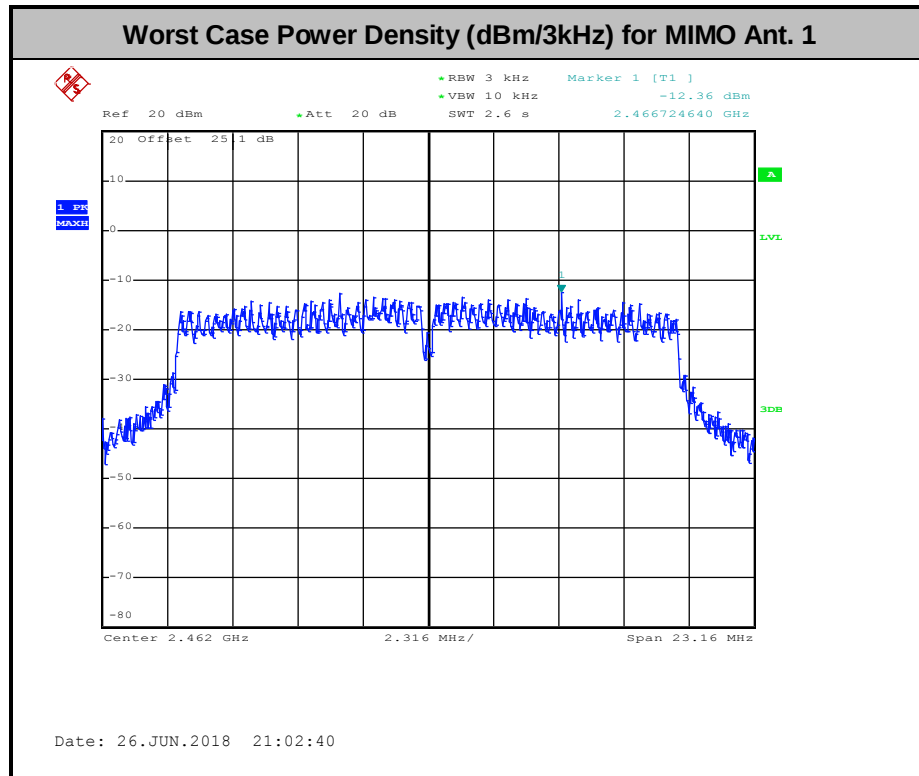
Method (2): Measure and add $10 \log(N)$ dB, where N is the number of outputs. (N=2)

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.

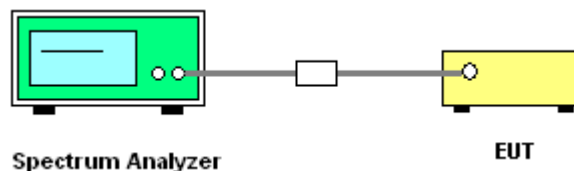
3.4.2 Measuring Instruments

See list of measuring equipment of this test report.

3.4.3 Test Procedures

1. The testing follows FCC KDB Publication No. 558074 D01 DTS Meas. Guidance v04.
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



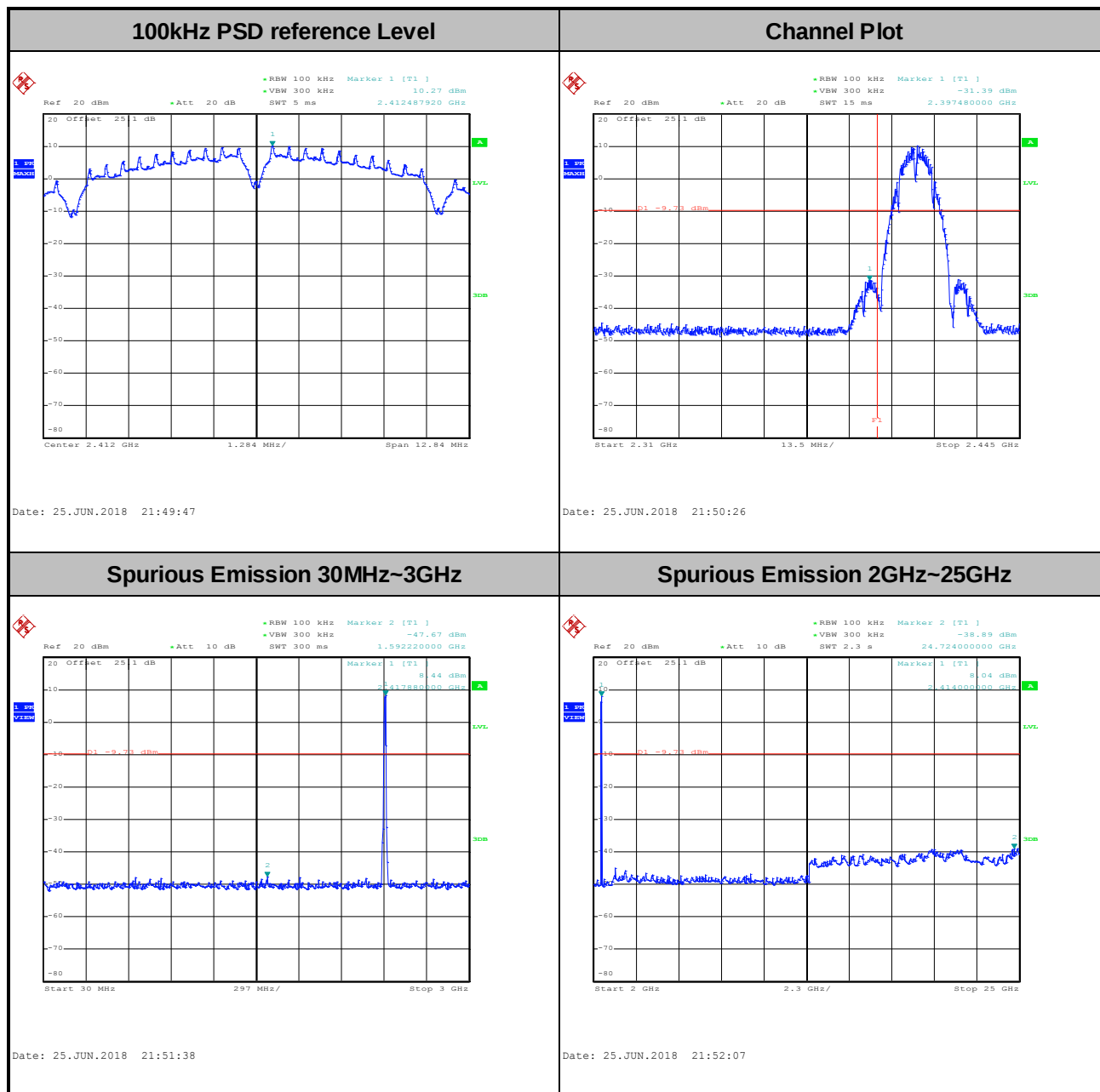


3.4.5 Test Result of Conducted Band Edges and Spurious Emission

Test Engineer :	Eason Huang and Kai Liao	Temperature :	21~25°C
		Relative Humidity :	51~54%

Number of TX = 2, Ant. 1 (Measured)

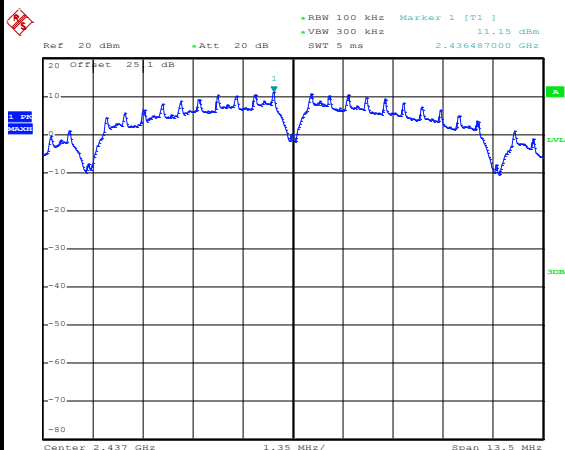
Test Mode :	802.11b	Test Channel :	01
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Test Mode :	802.11b	Test Channel :	06
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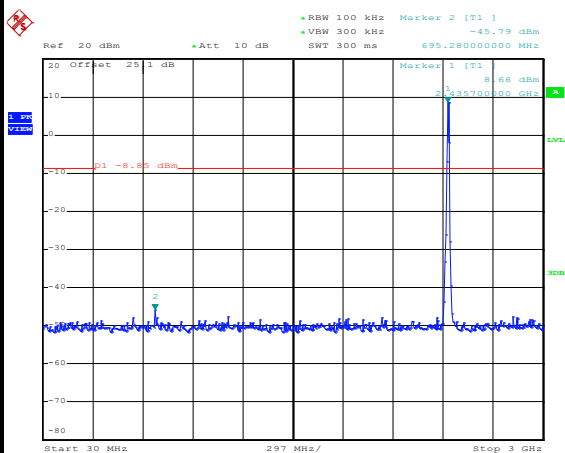
100kHz PSD reference Level



Date: 26.JUN.2018 11:24:36

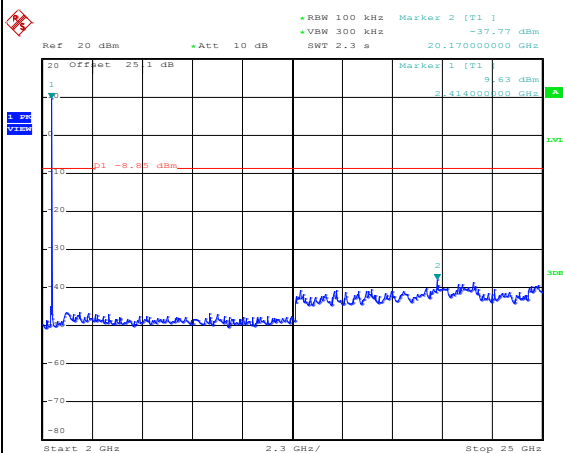
Channel Plot

Spurious Emission 30MHz~3GHz



Date: 26.JUN.2018 11:29:22

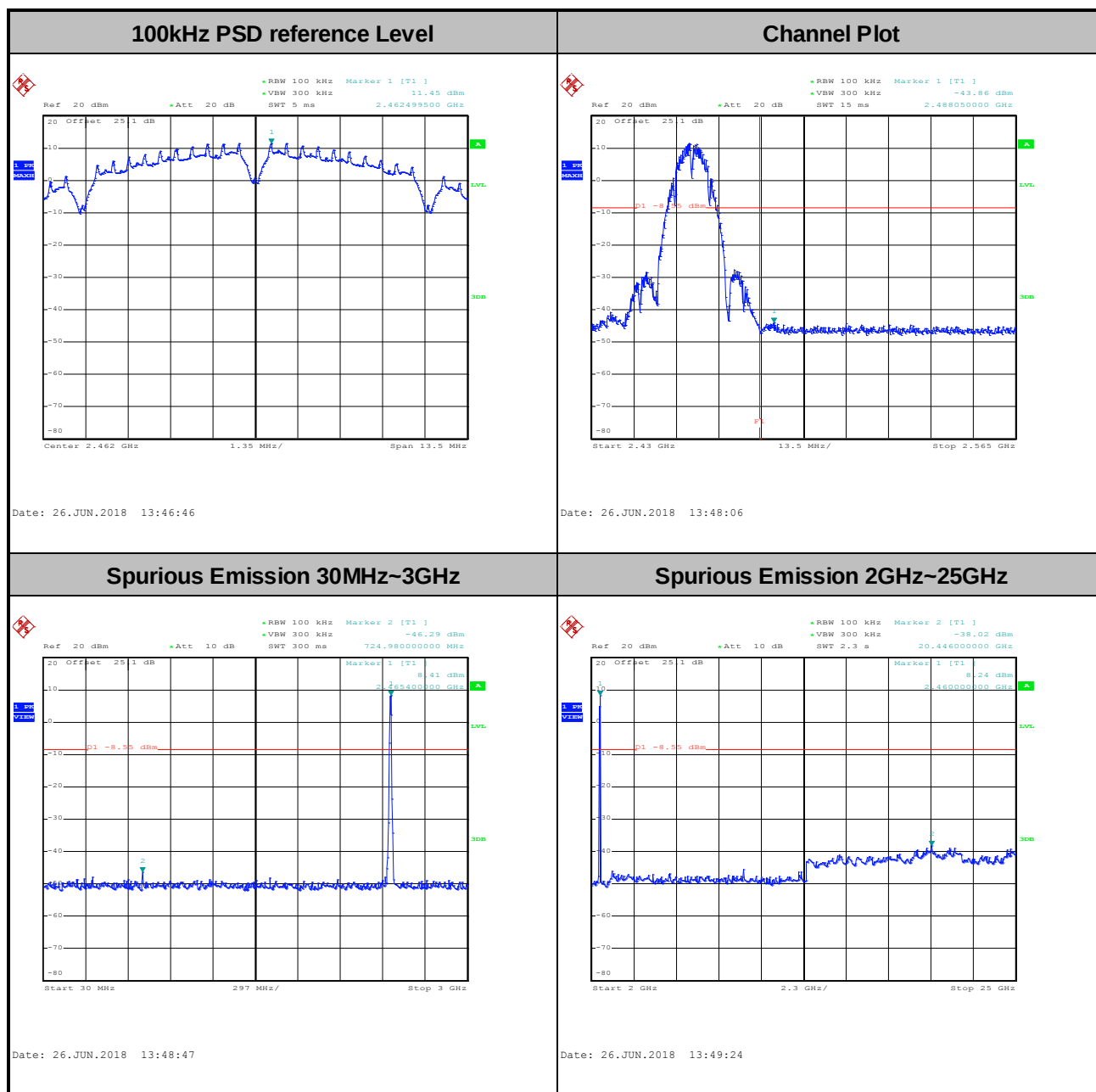
Spurious Emission 2GHz~25GHz



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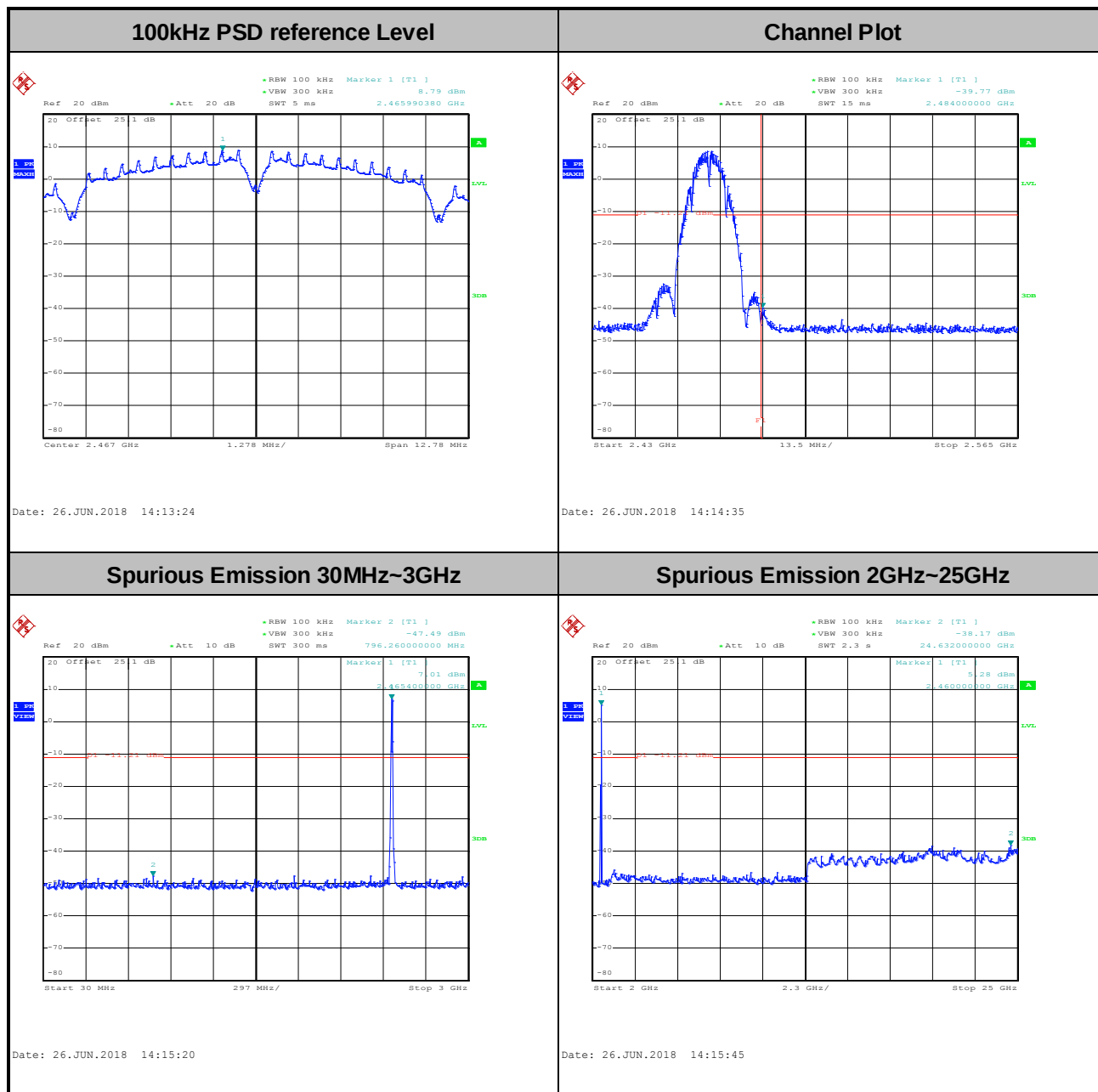


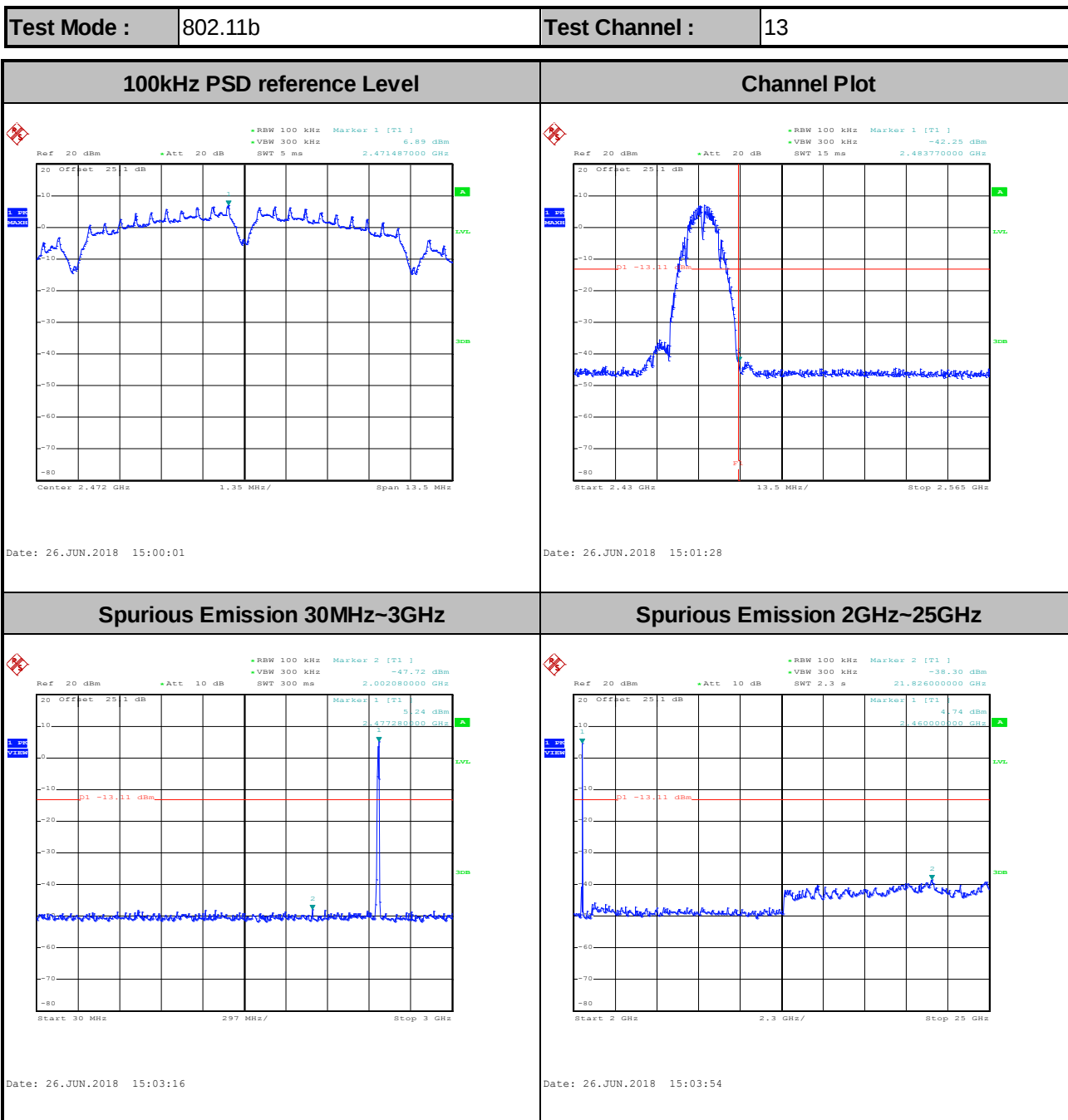
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Test Mode :	802.11b	Test Channel :	12
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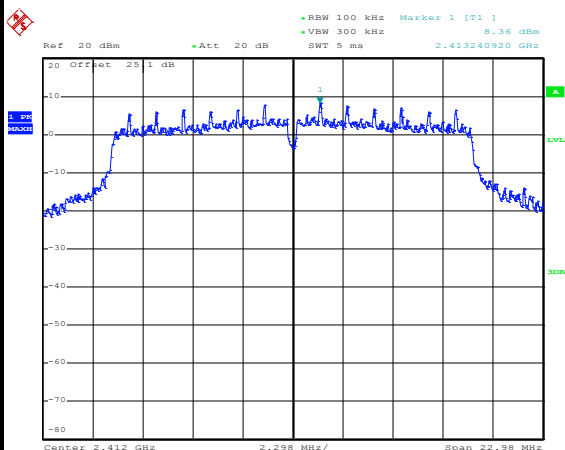






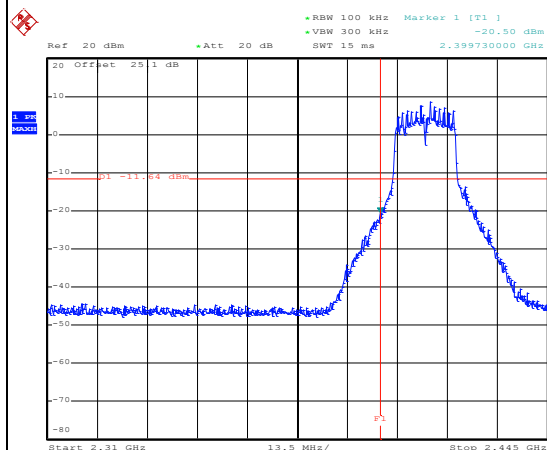
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100kHz PSD reference Level



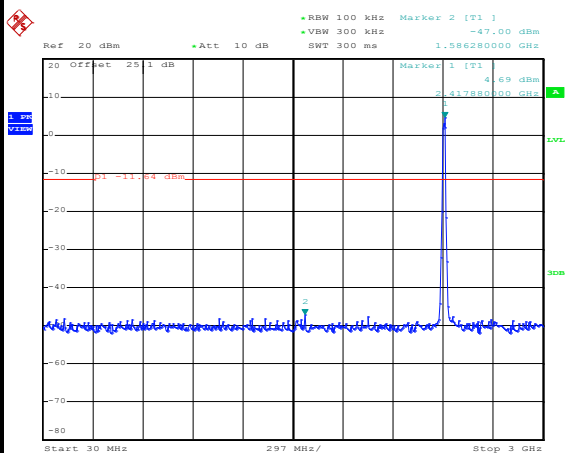
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Channel Plot



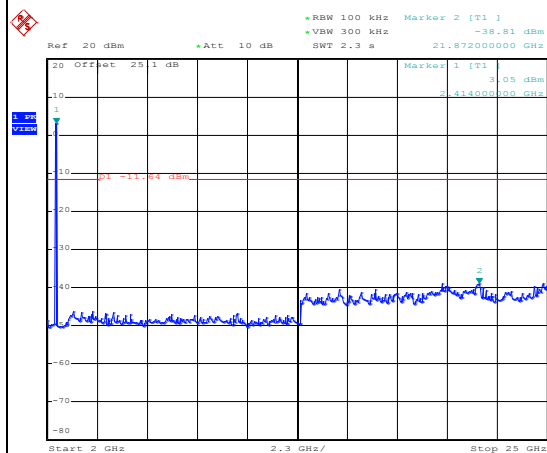
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Spurious Emission 30MHz~3GHz

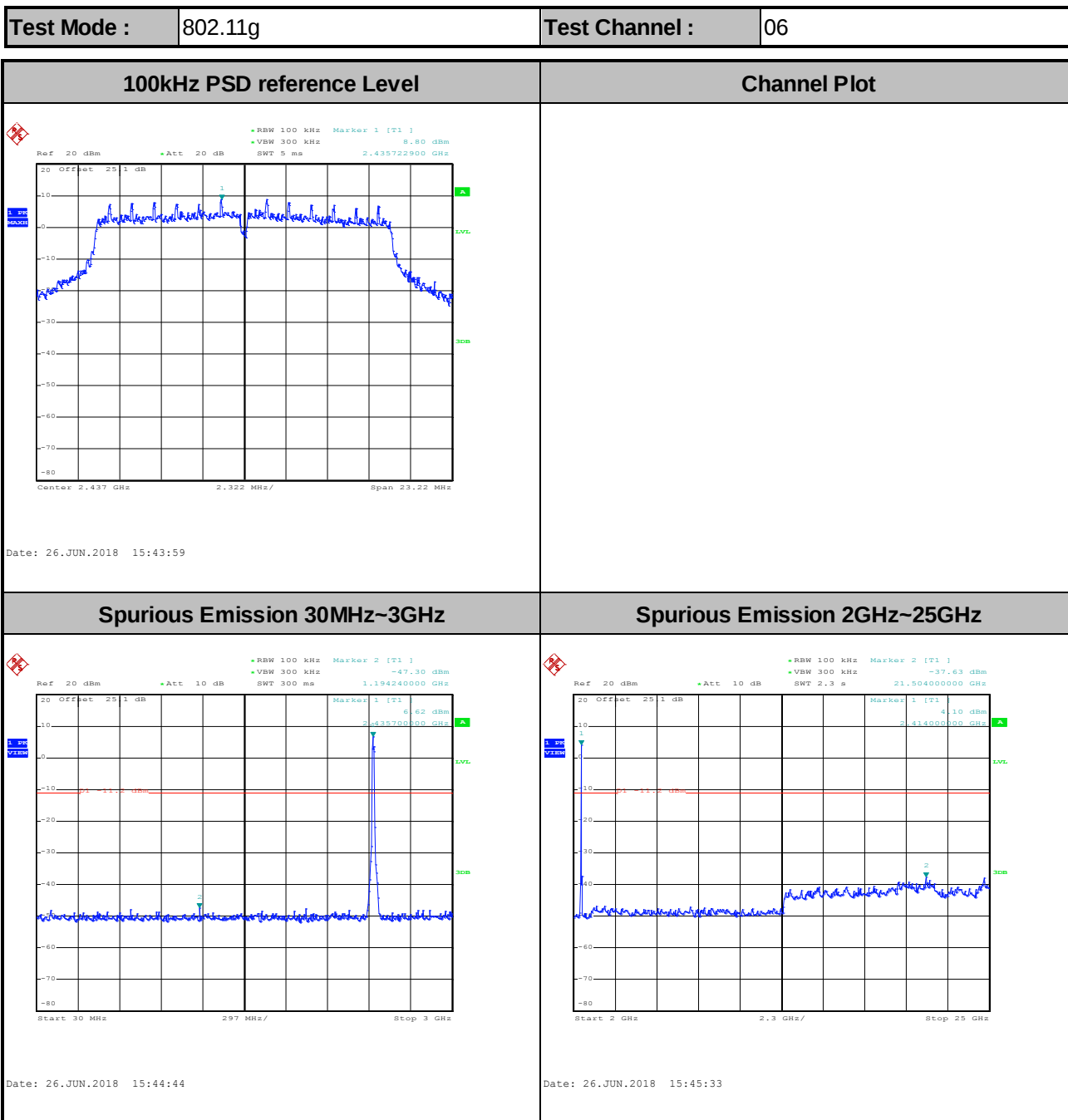


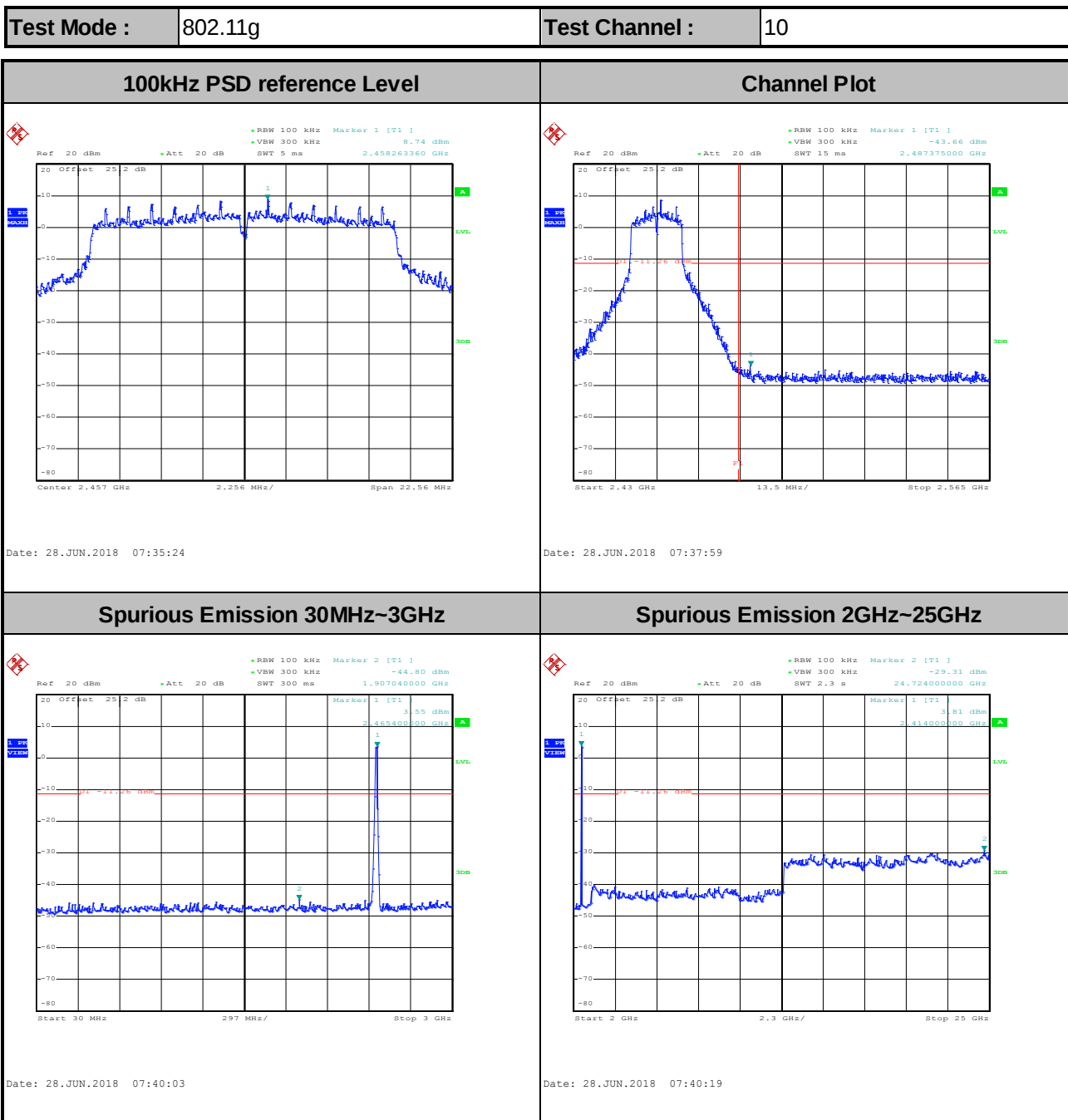
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Spurious Emission 2GHz~25GHz



Date: 26.JUN.2018 15:21:17

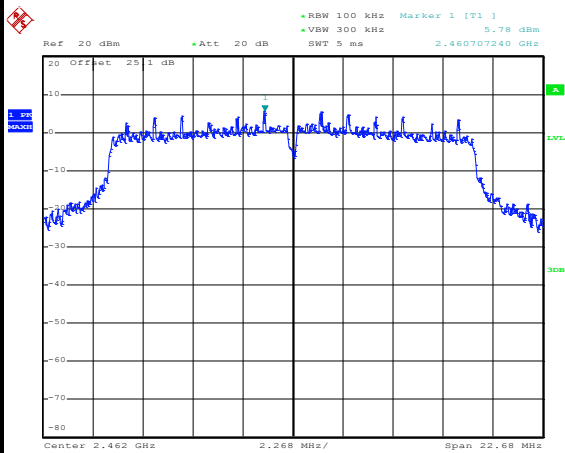






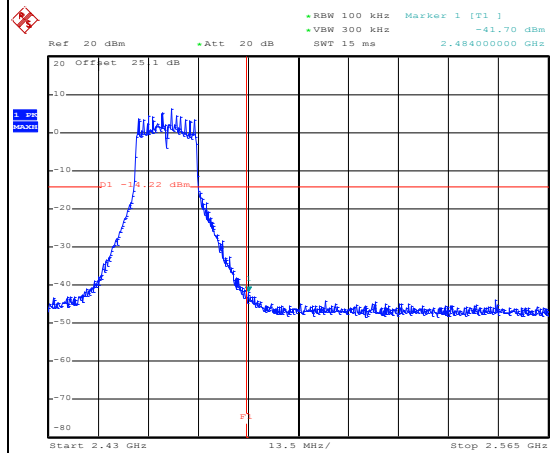
Test Mode :	802.11g	Test Channel :	11
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100kHz PSD reference Level



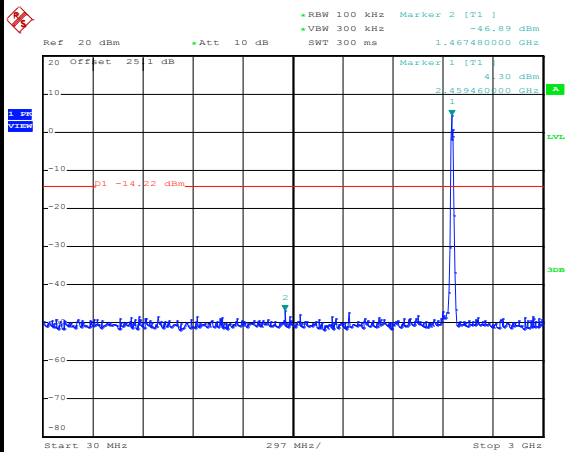
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Channel Plot



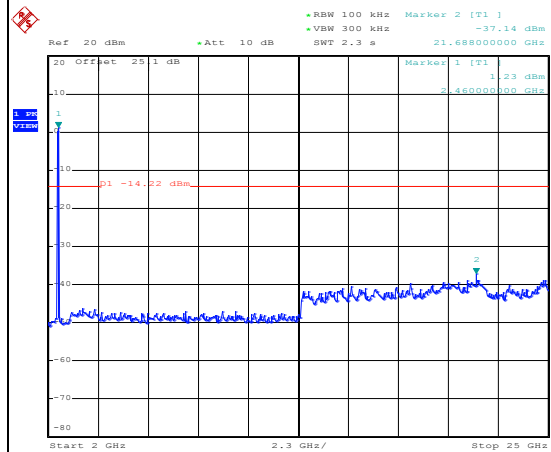
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Spurious Emission 30MHz~3GHz



Date: 25.JUN.2018 10:17:53

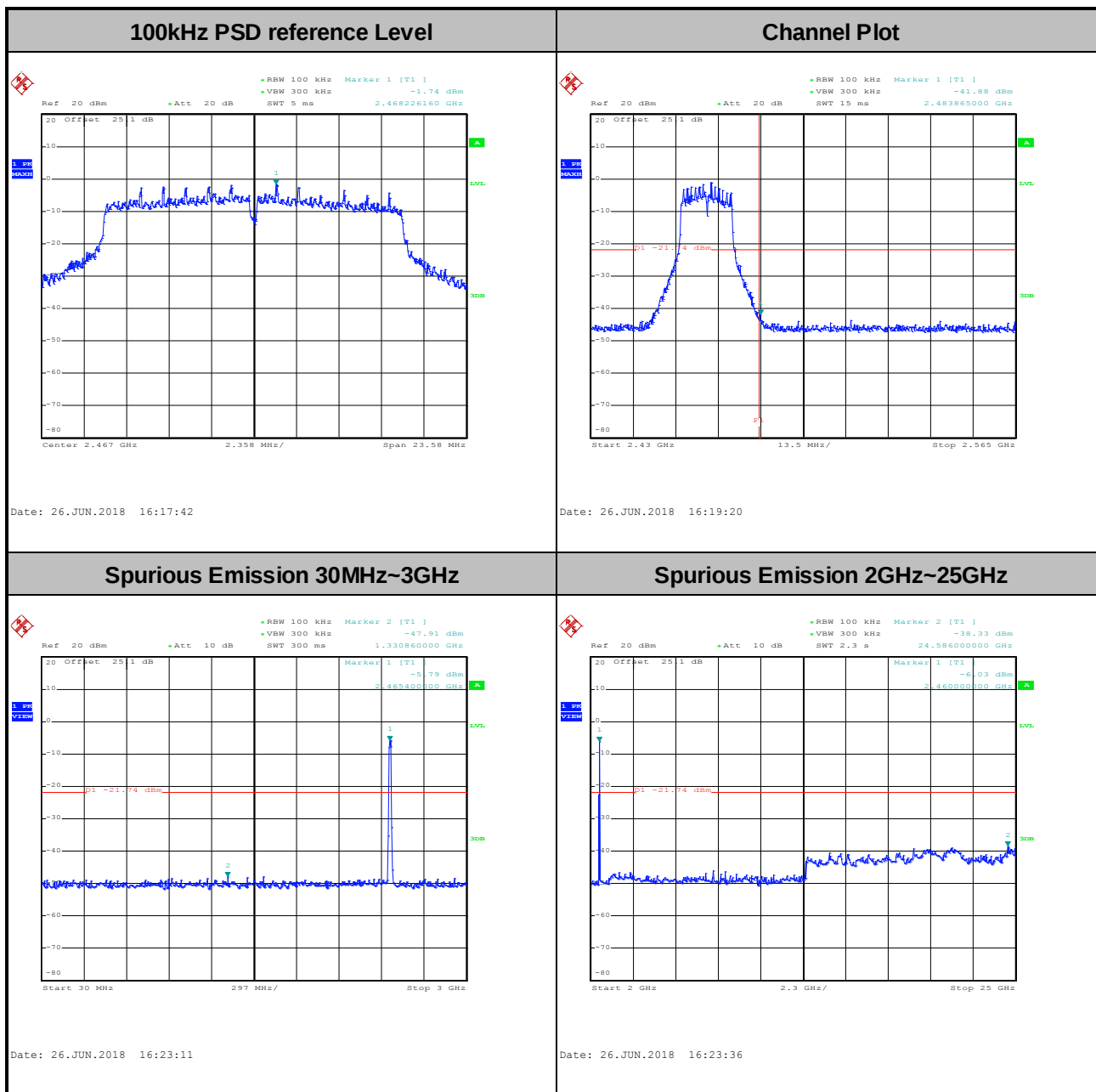
Spurious Emission 2GHz~25GHz

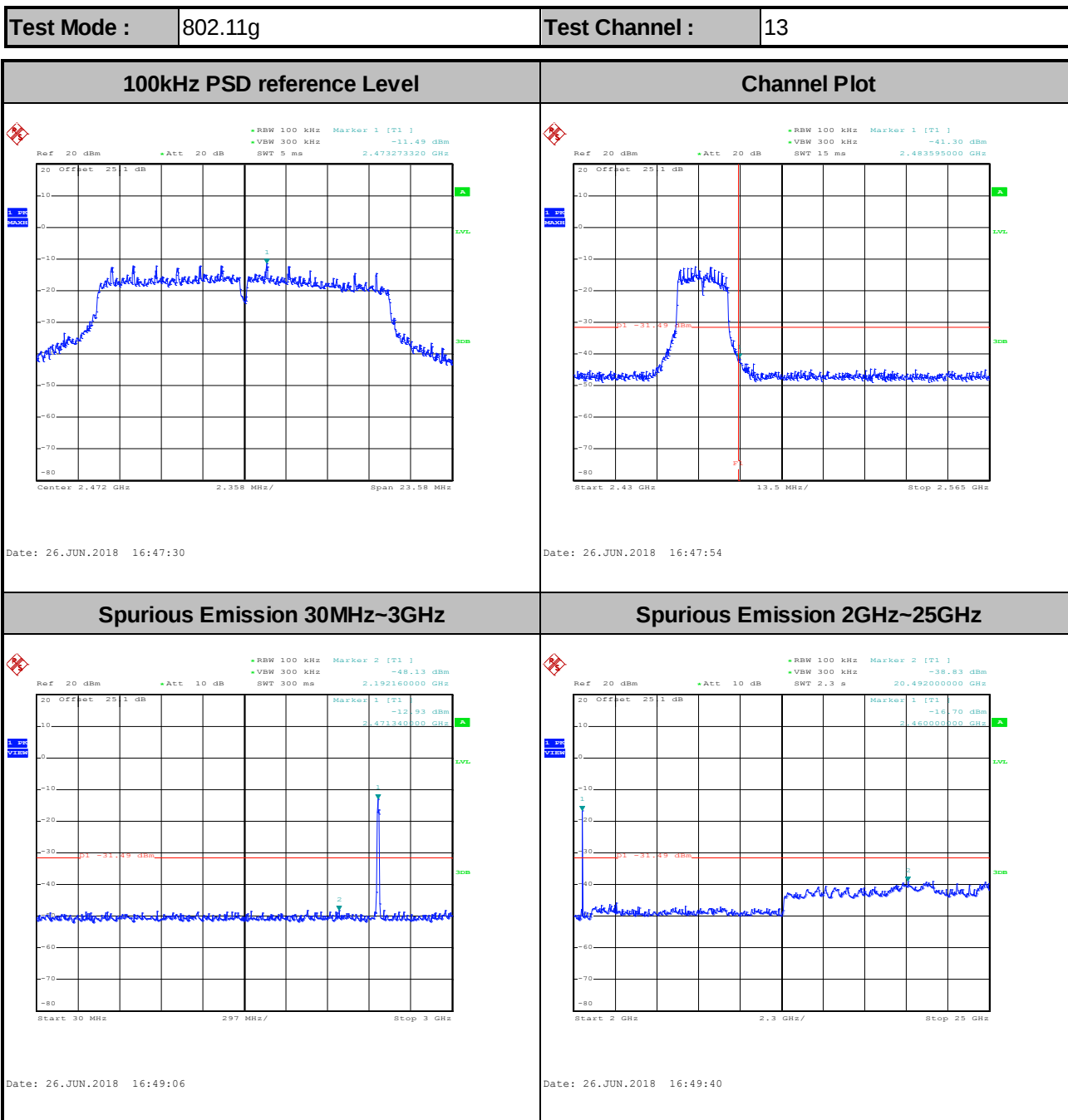


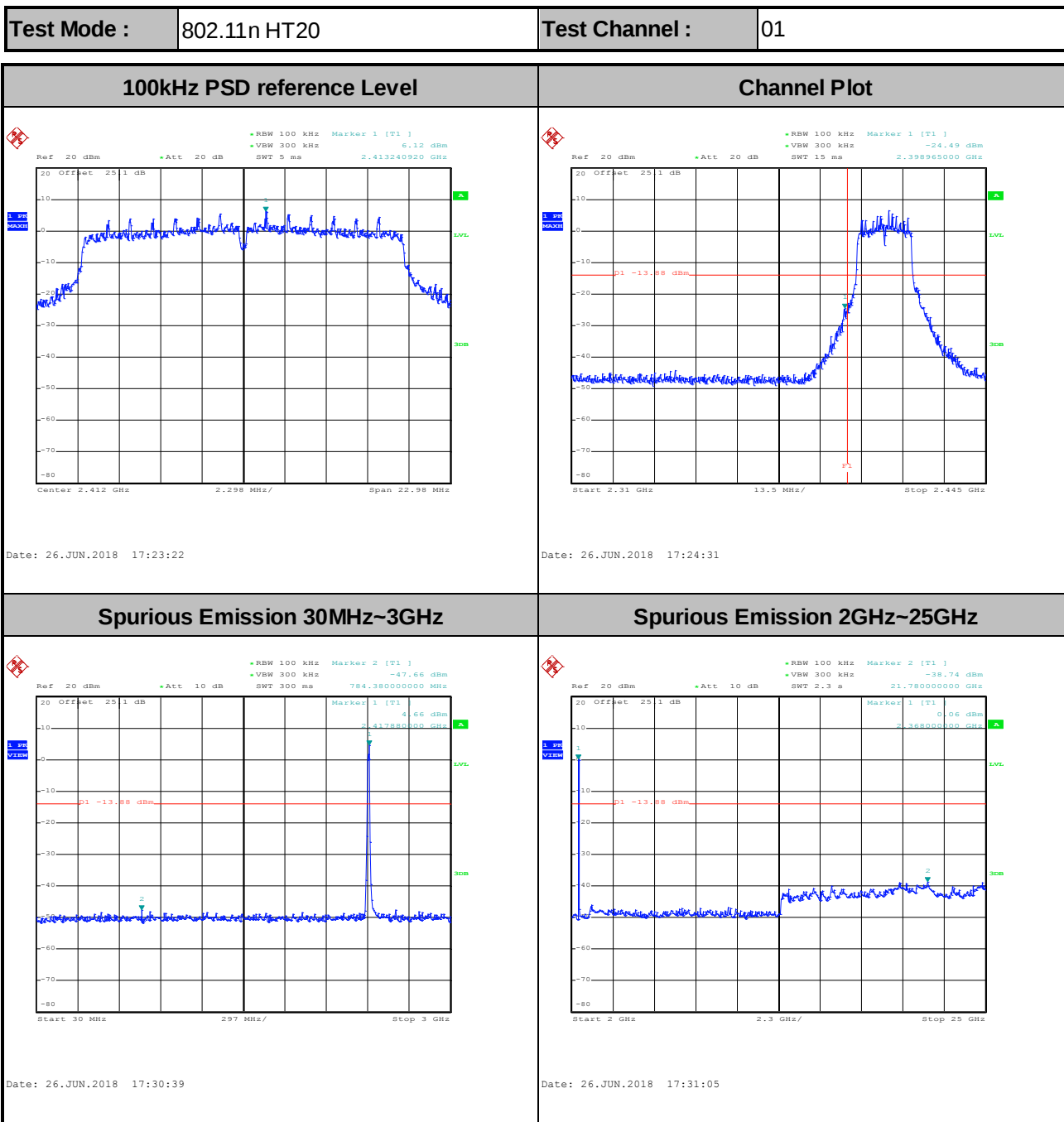
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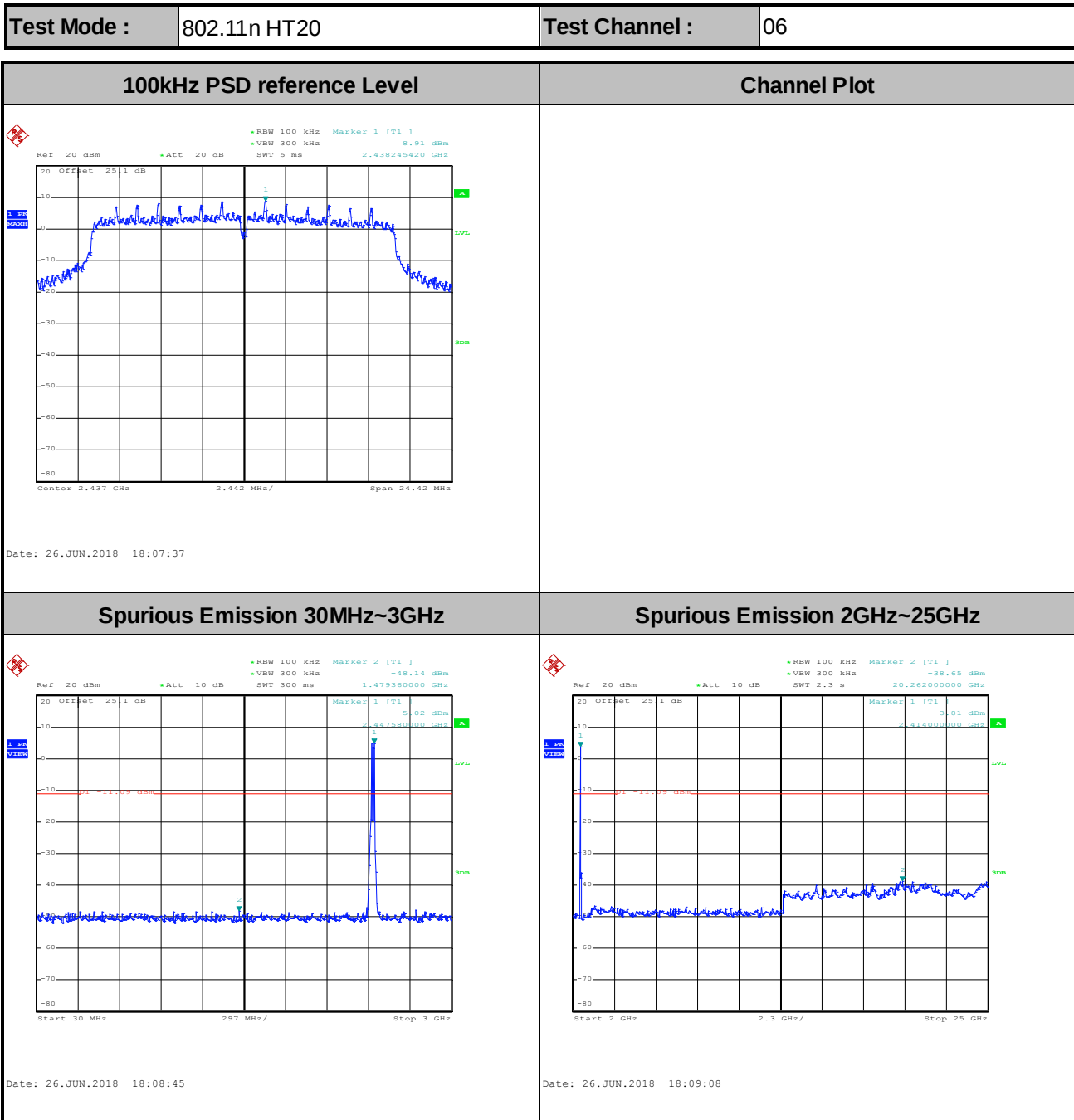


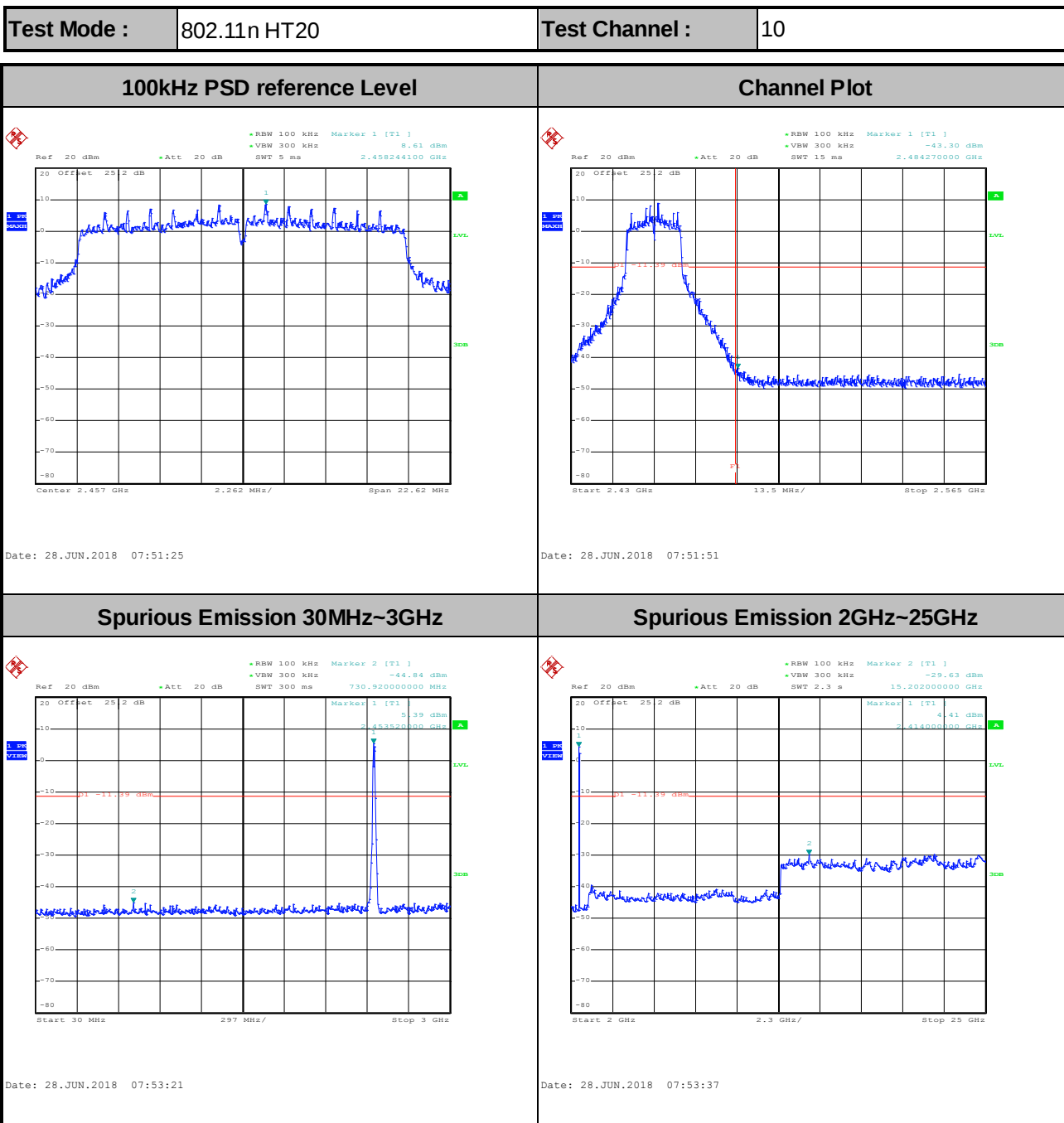
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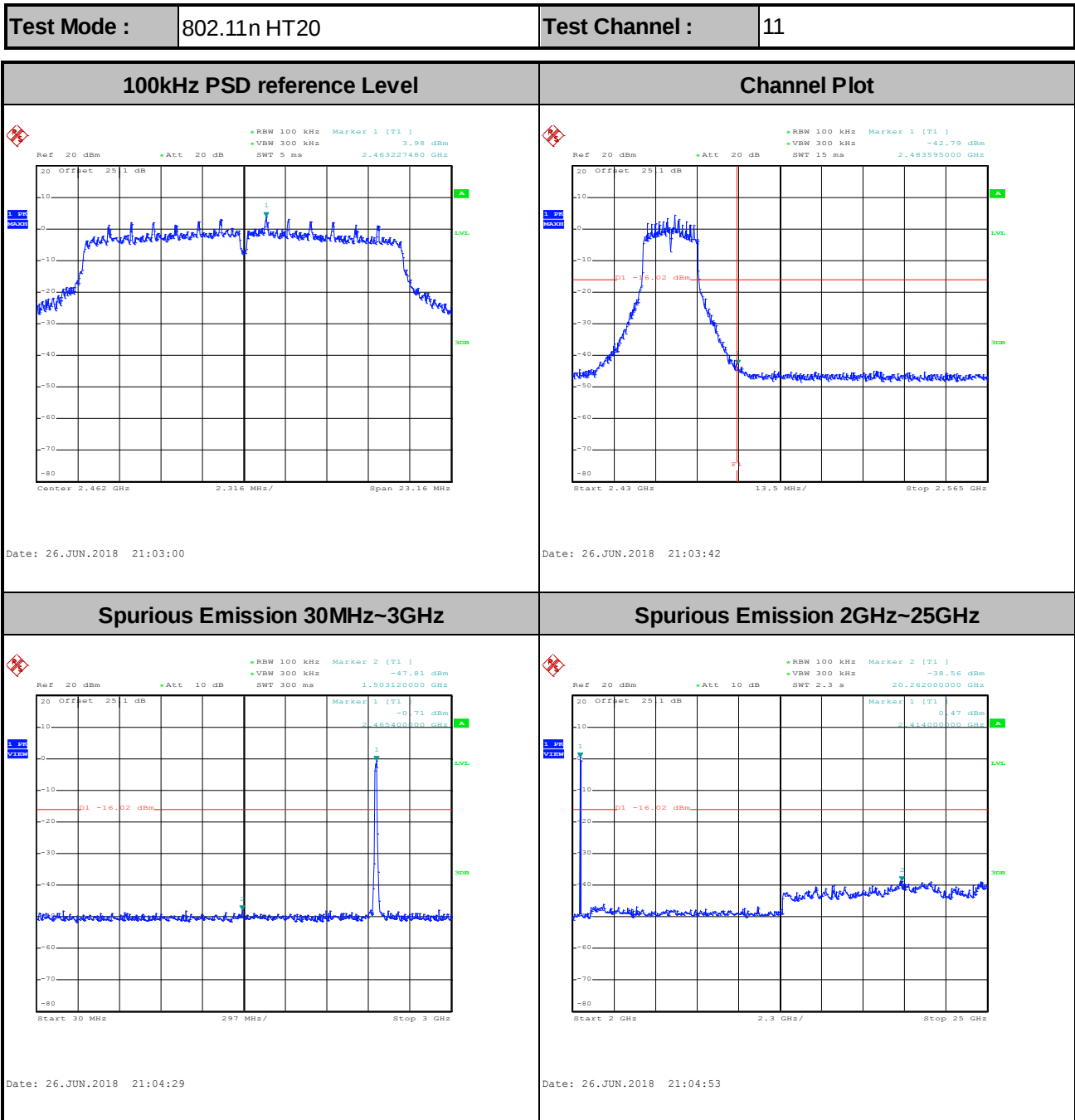


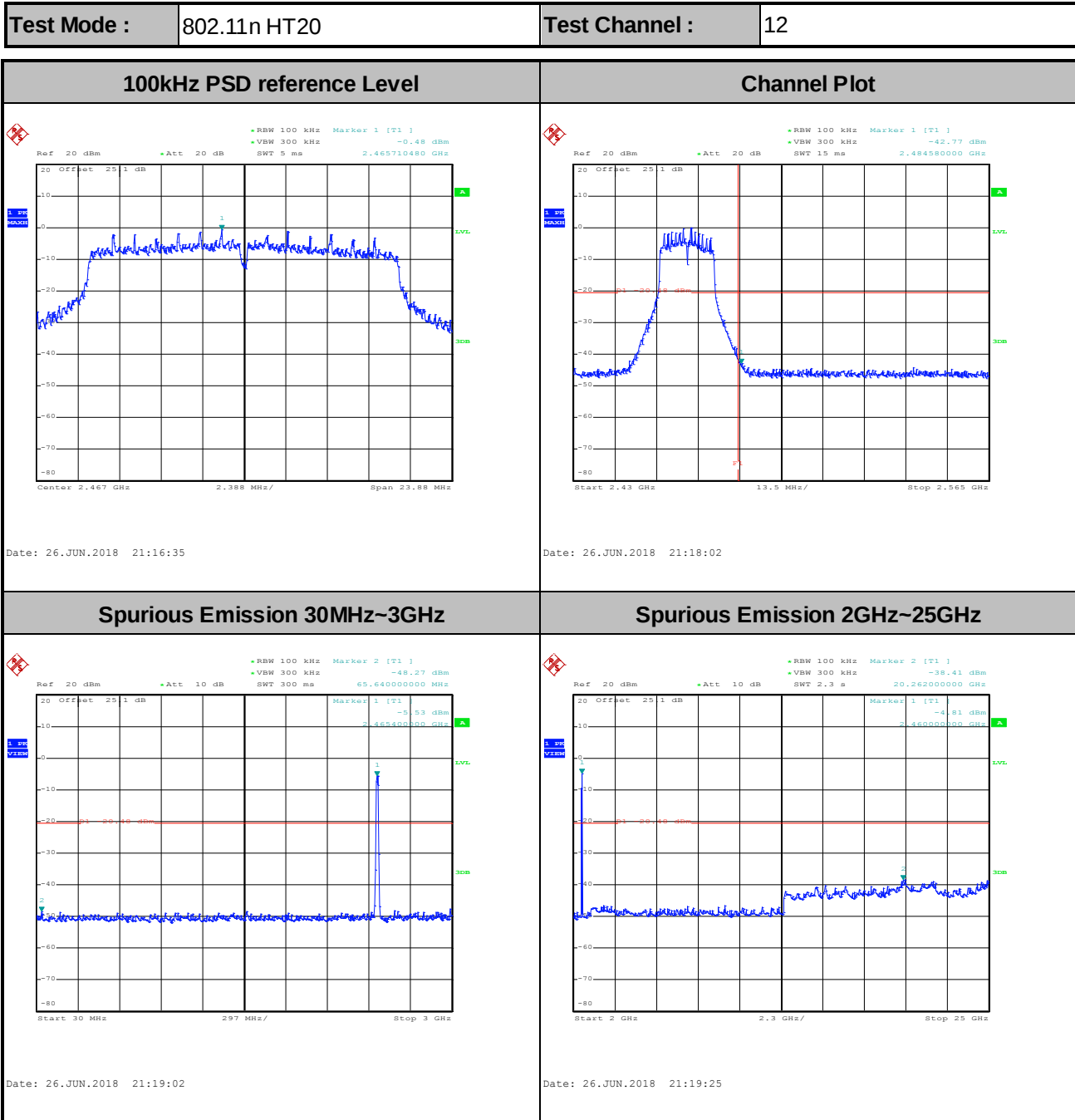






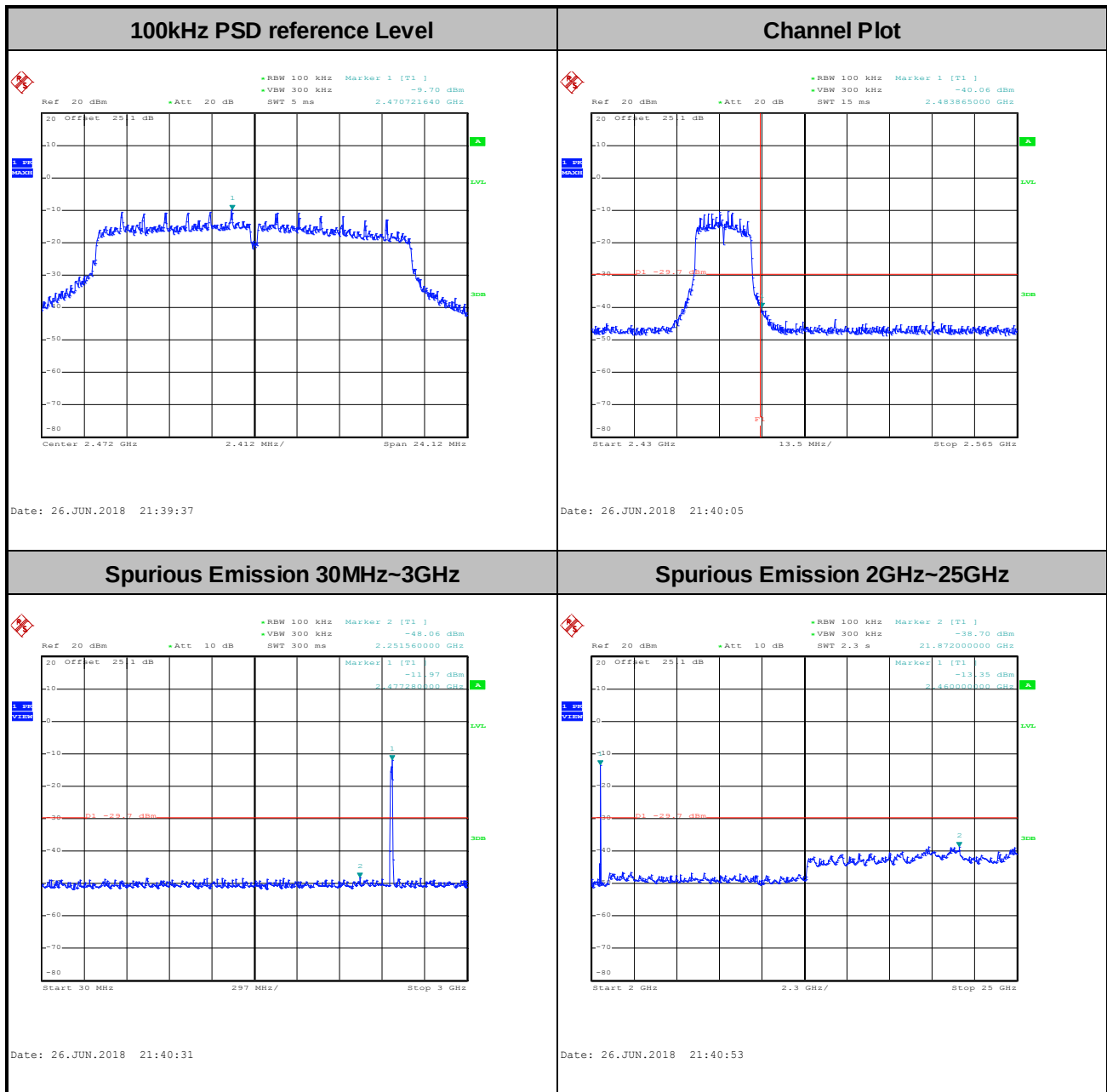






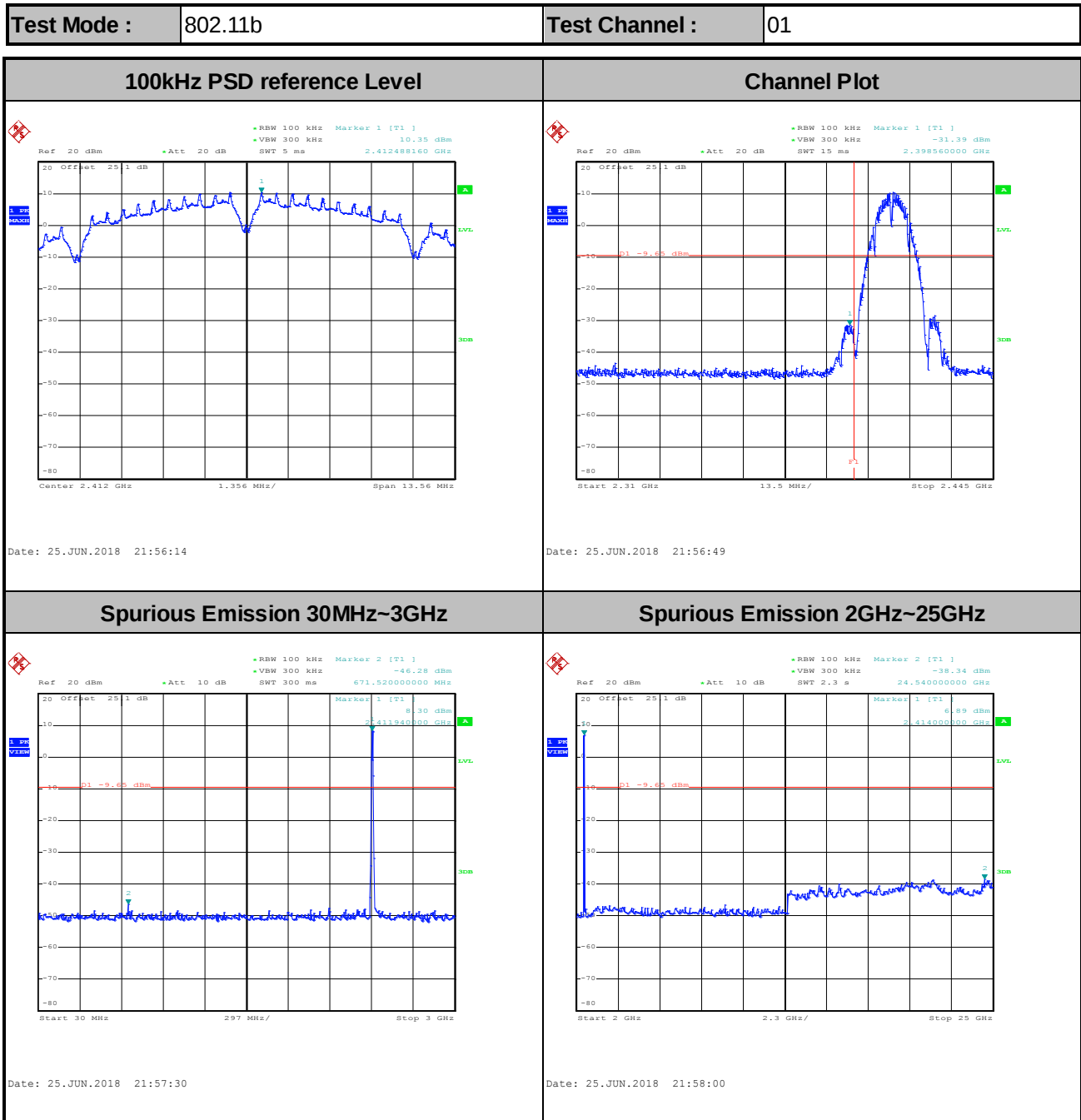


Test Mode :	802.11n HT20	Test Channel :	13
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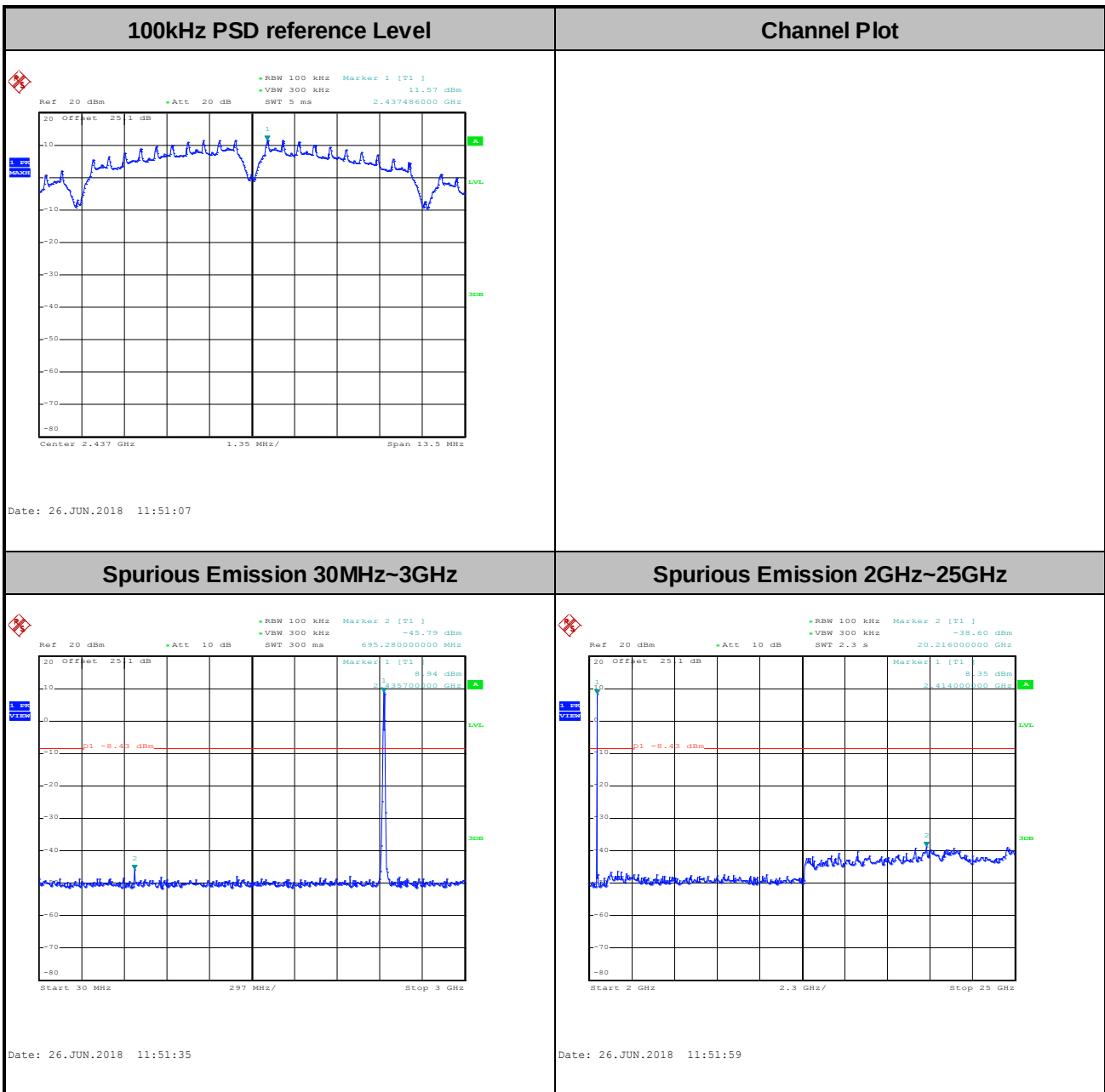




Number of TX = 2, Ant. 2 (Measured)

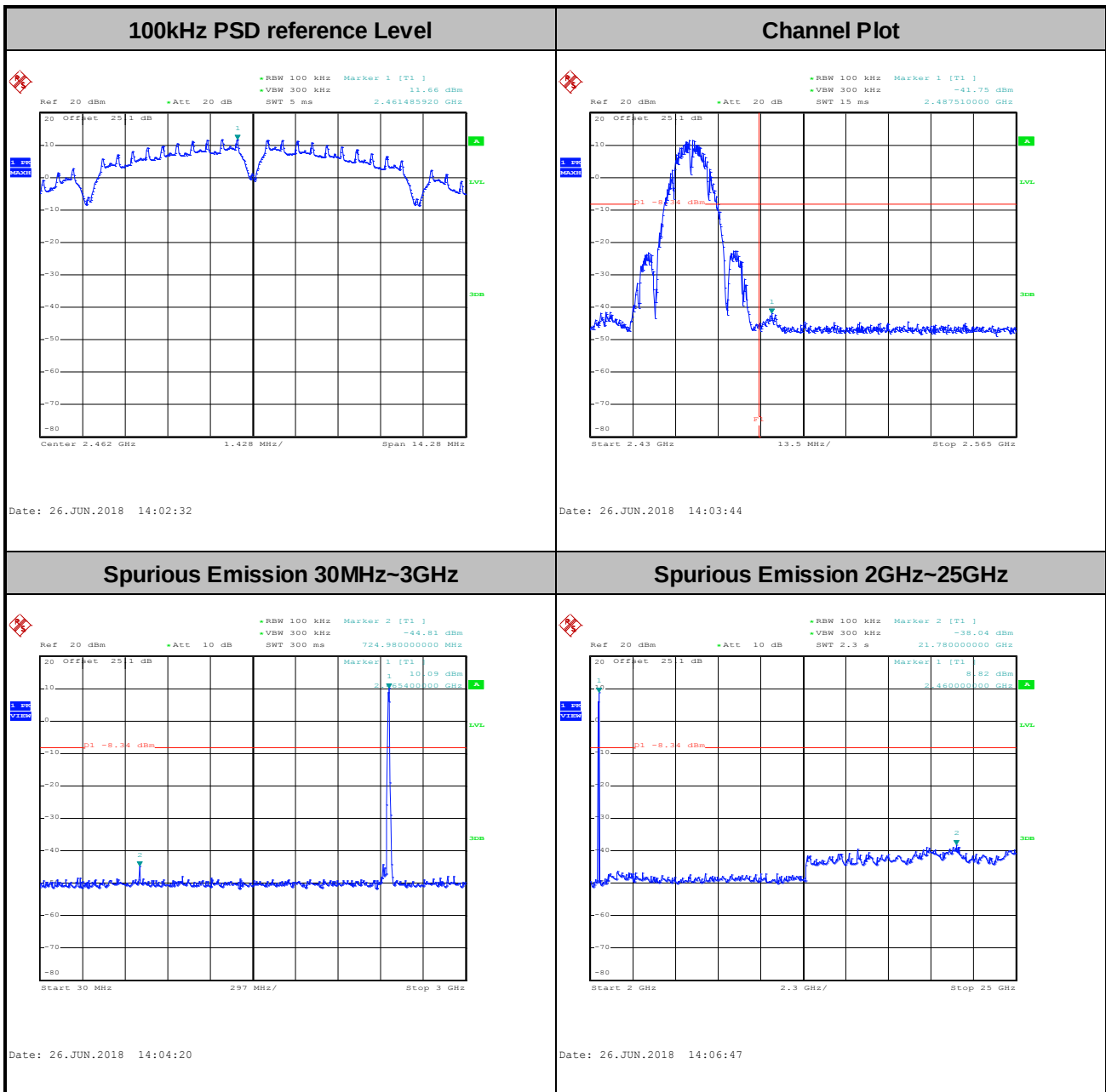


Test Mode :	802.11b	Test Channel :	06
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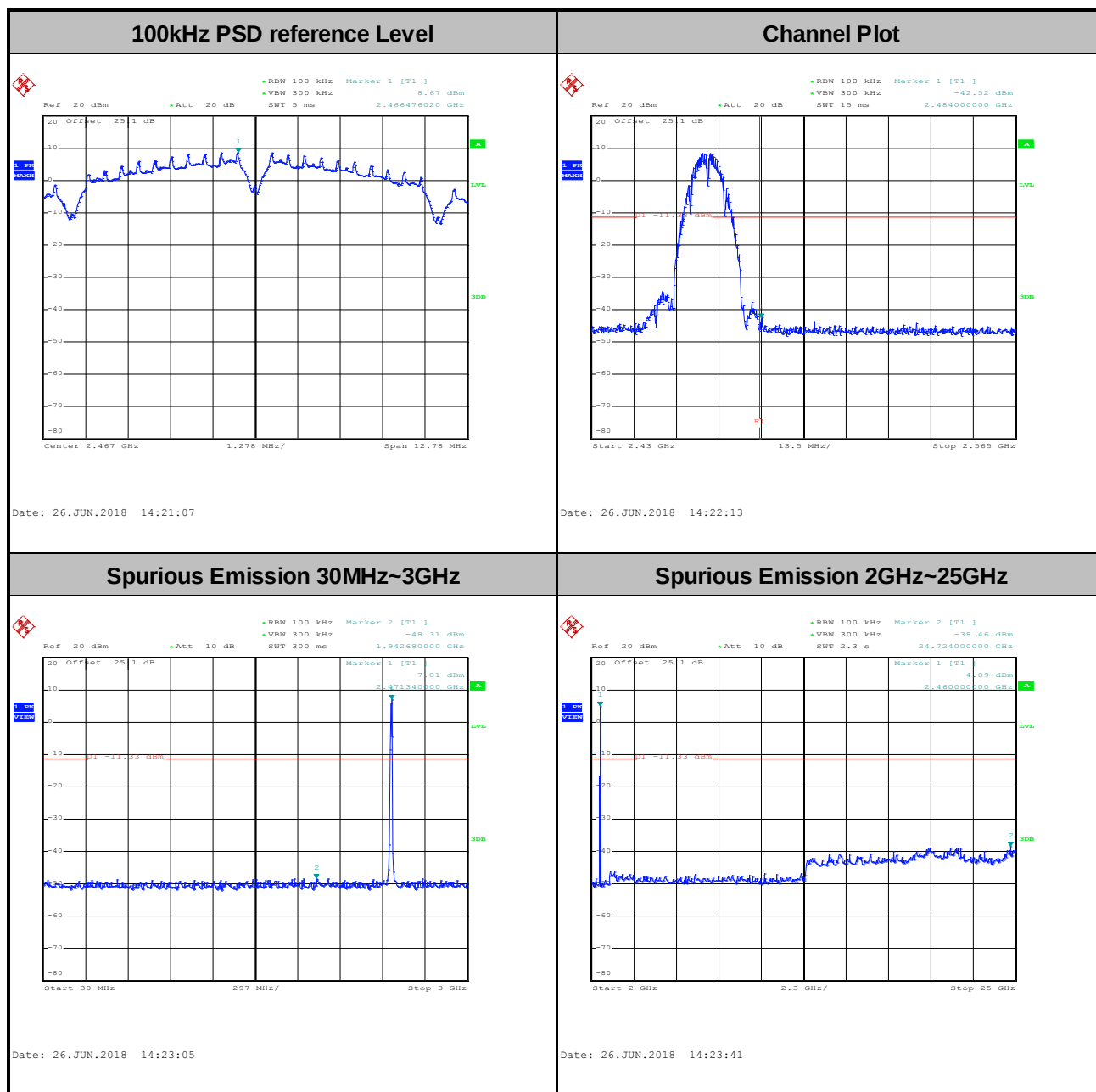


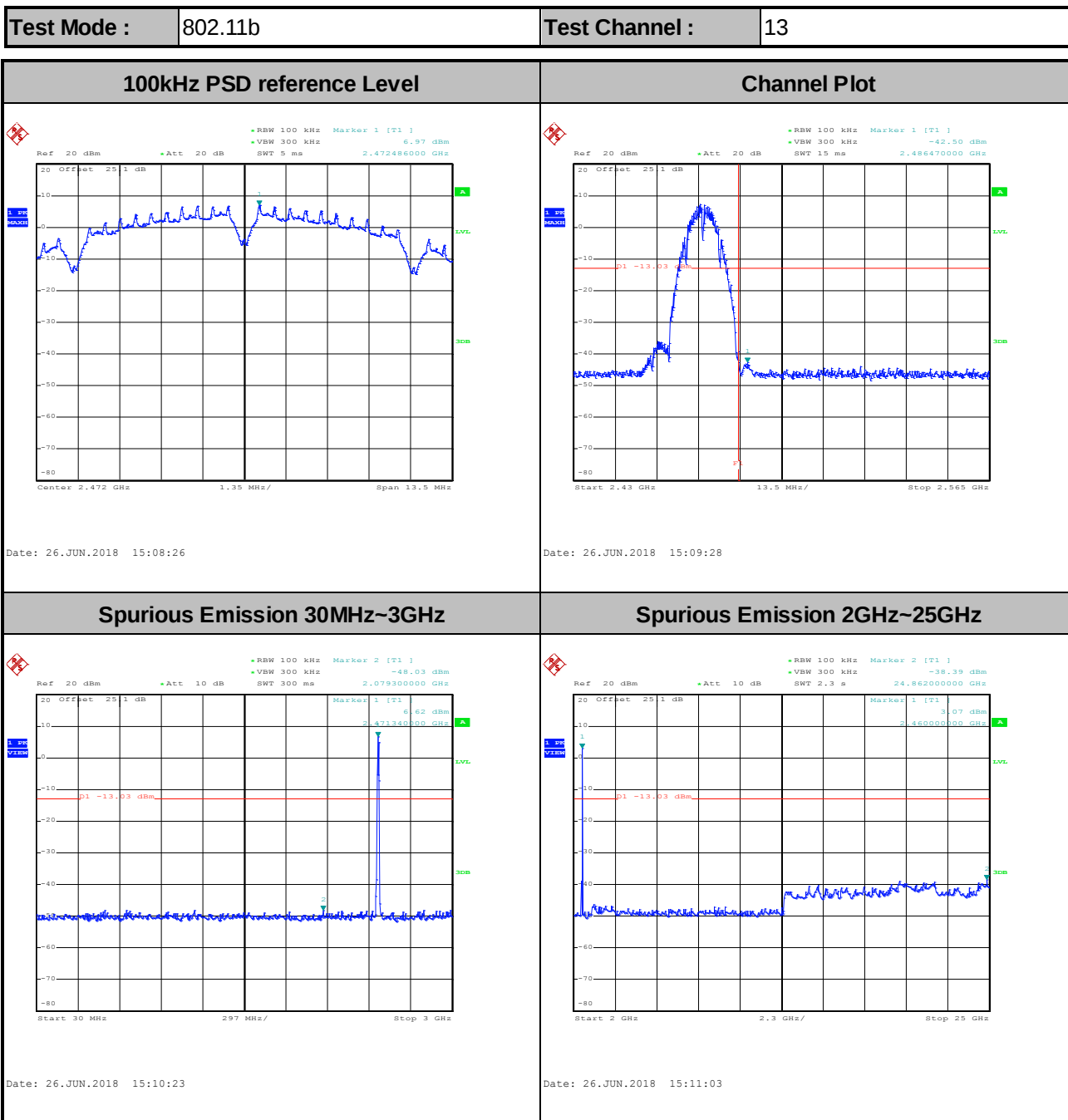
Test Mode :	802.11b	Test Channel :	11
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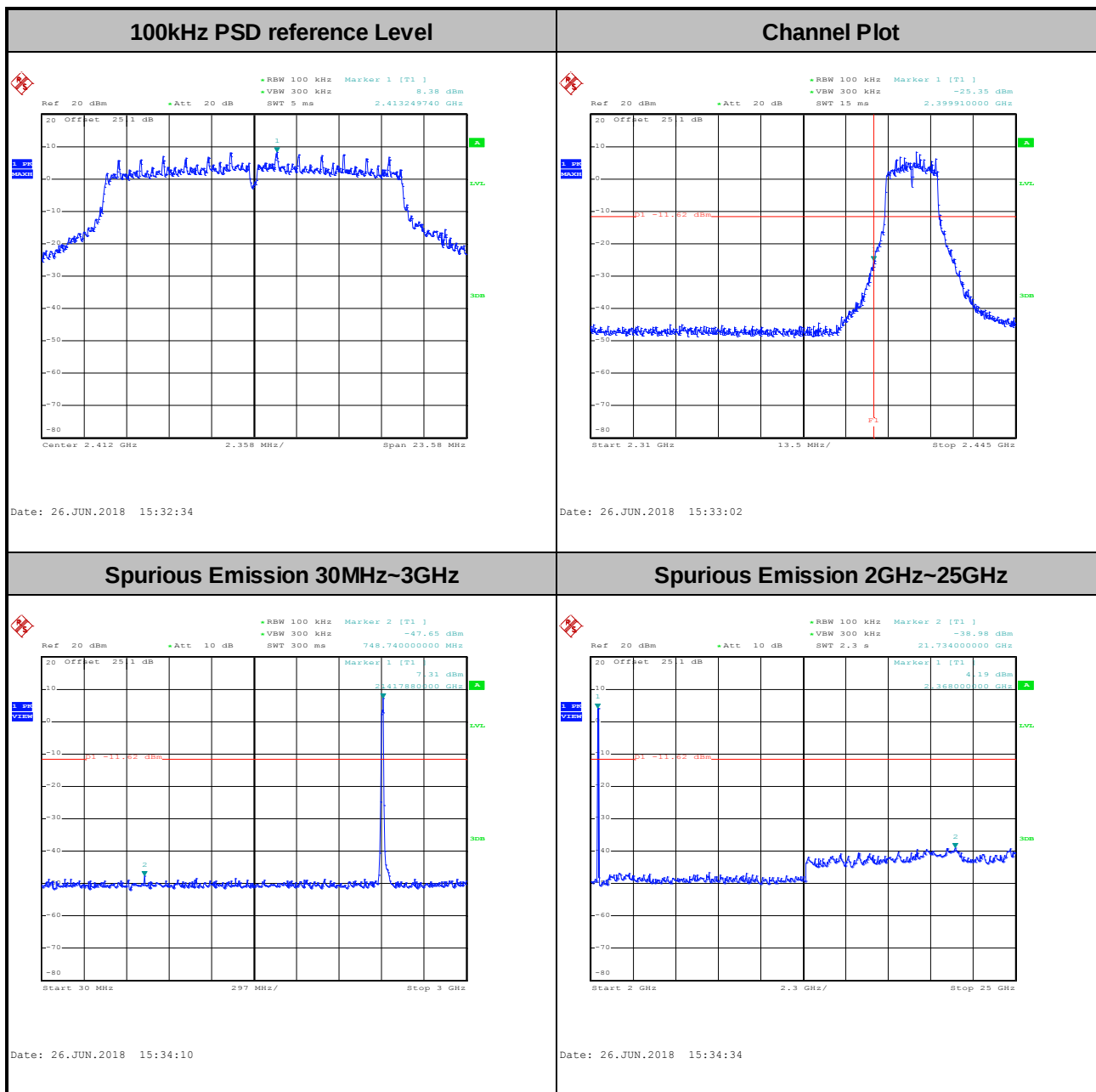
Test Mode :	802.11b	Test Channel :	12
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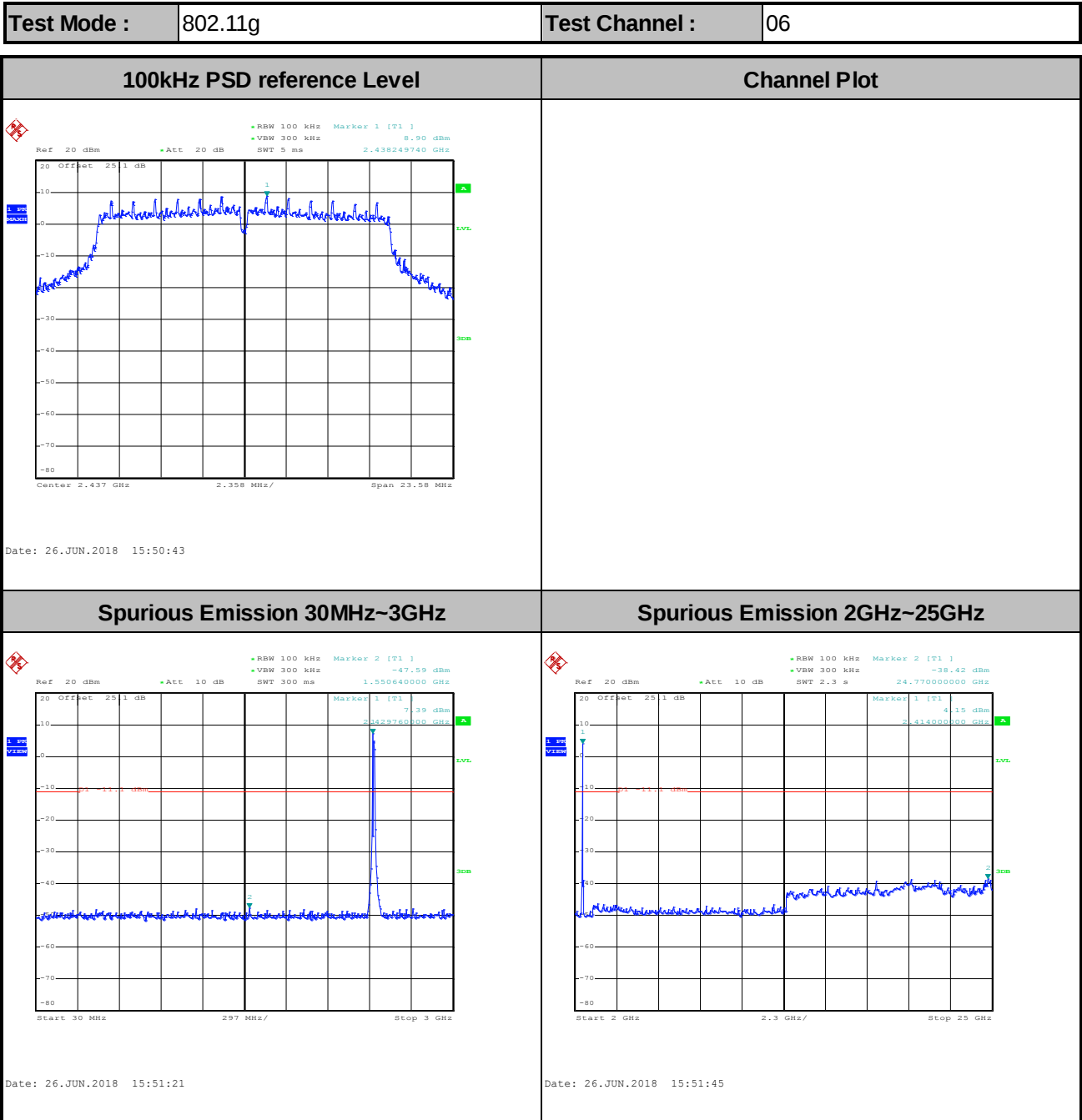






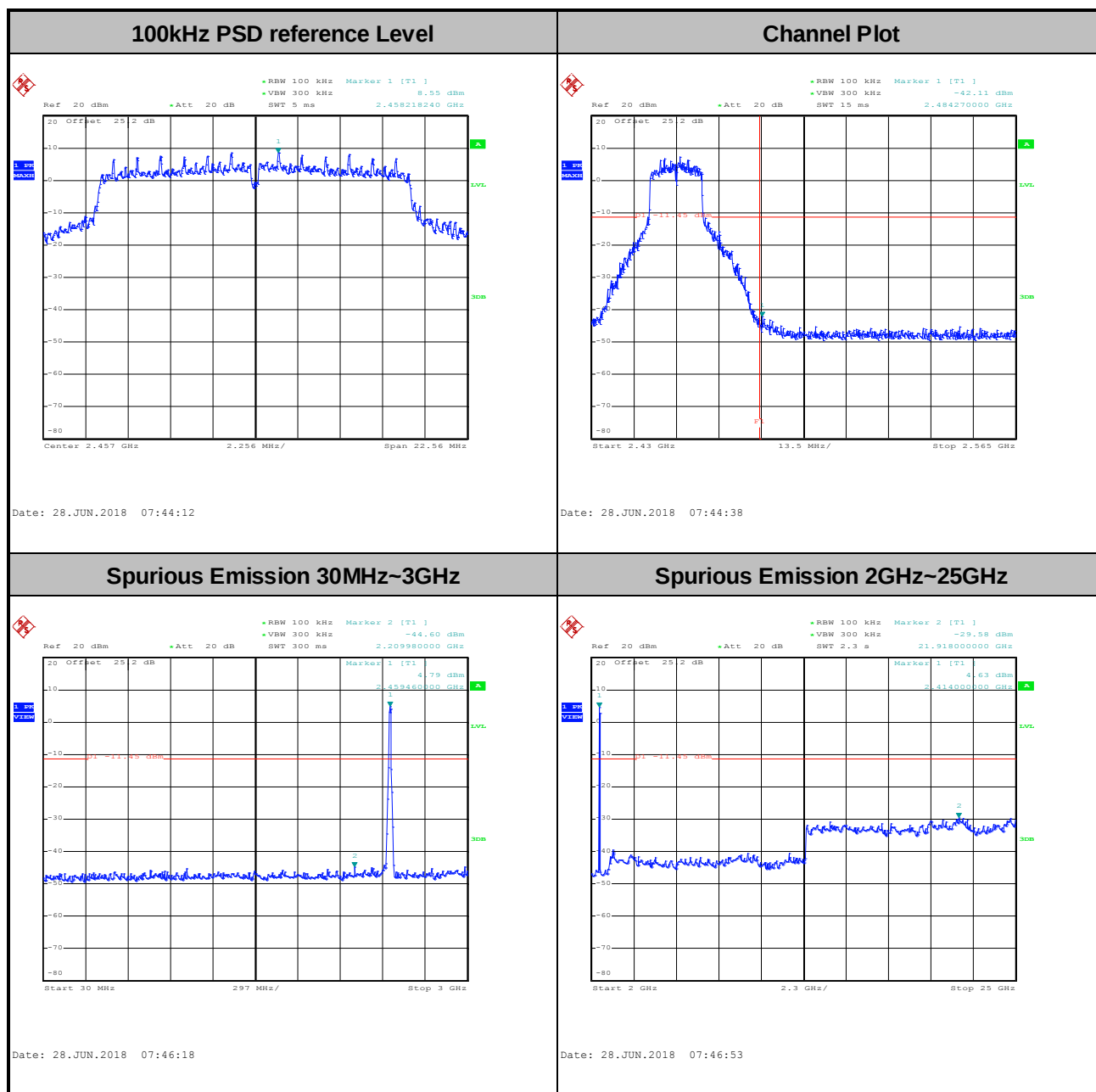
Test Mode :	802.11g	Test Channel :	01
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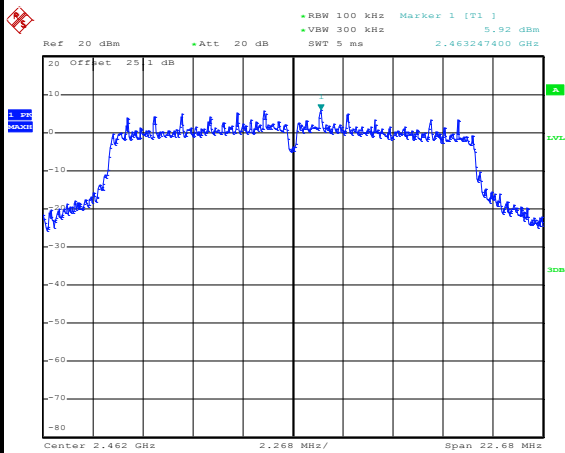
Test Mode :	802.11g	Test Channel :	10
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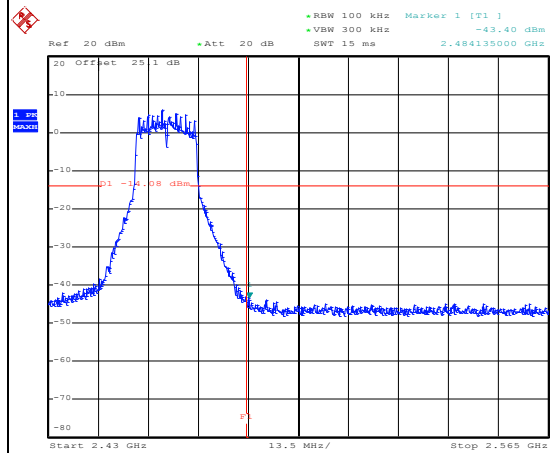
Test Mode :	802.11g	Test Channel :	11
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100kHz PSD reference Level



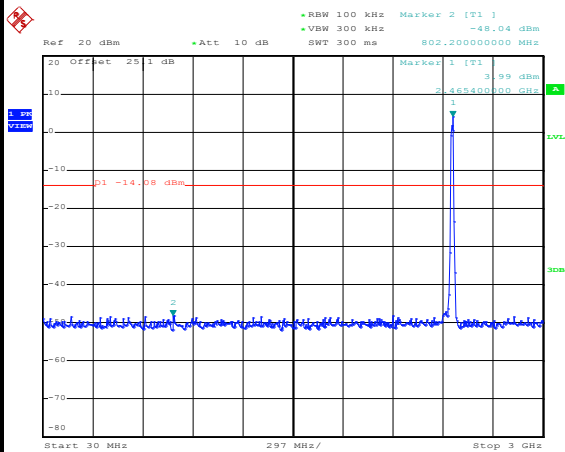
Date: 26.JUN.2018 16:06:07

Channel Plot



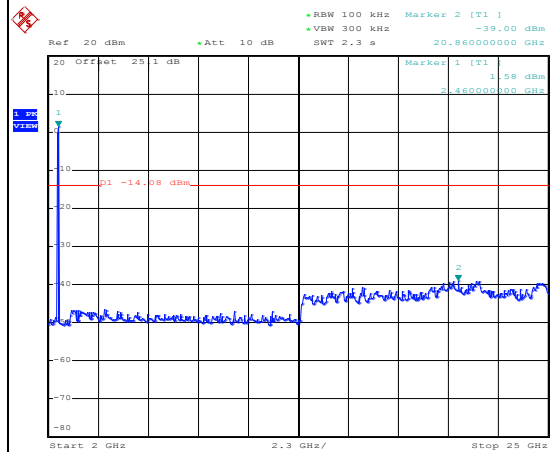
Date: 26.JUN.2018 16:07:56

Spurious Emission 30MHz~3GHz



Date: 26.JUN.2018 16:08:29

Spurious Emission 2GHz~25GHz

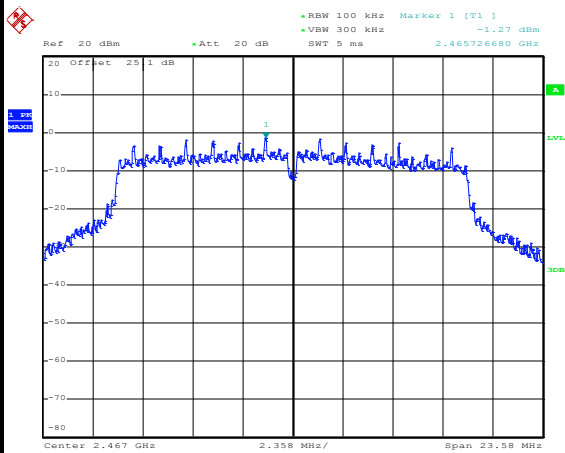


Date: 26.JUN.2018 16:09:05



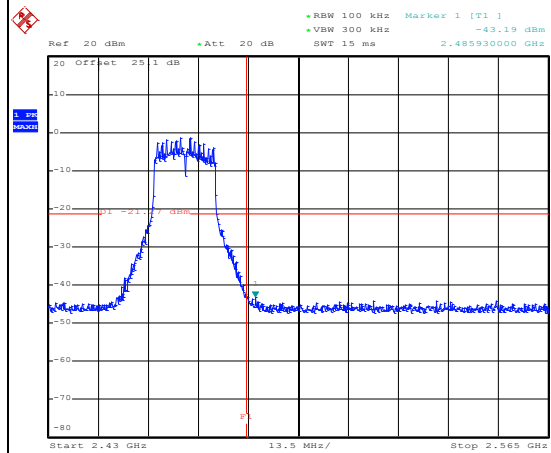
Test Mode :	802.11g	Test Channel :	12
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100kHz PSD reference Level



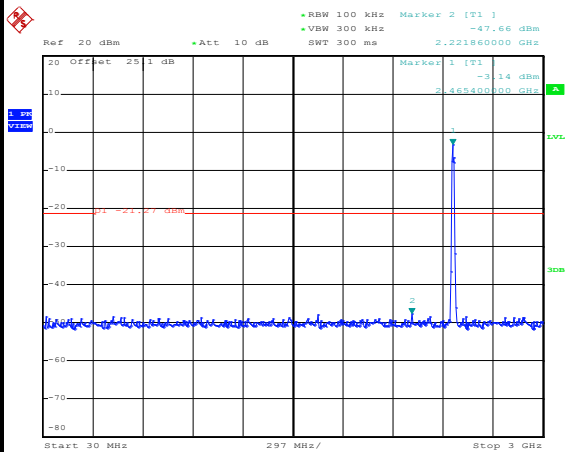
Date: 26.JUN.2018 16:34:41

Channel Plot



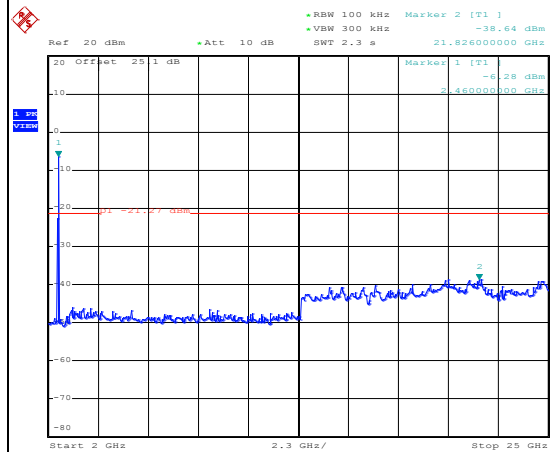
Date: 26.JUN.2018 16:40:10

Spurious Emission 30MHz~3GHz

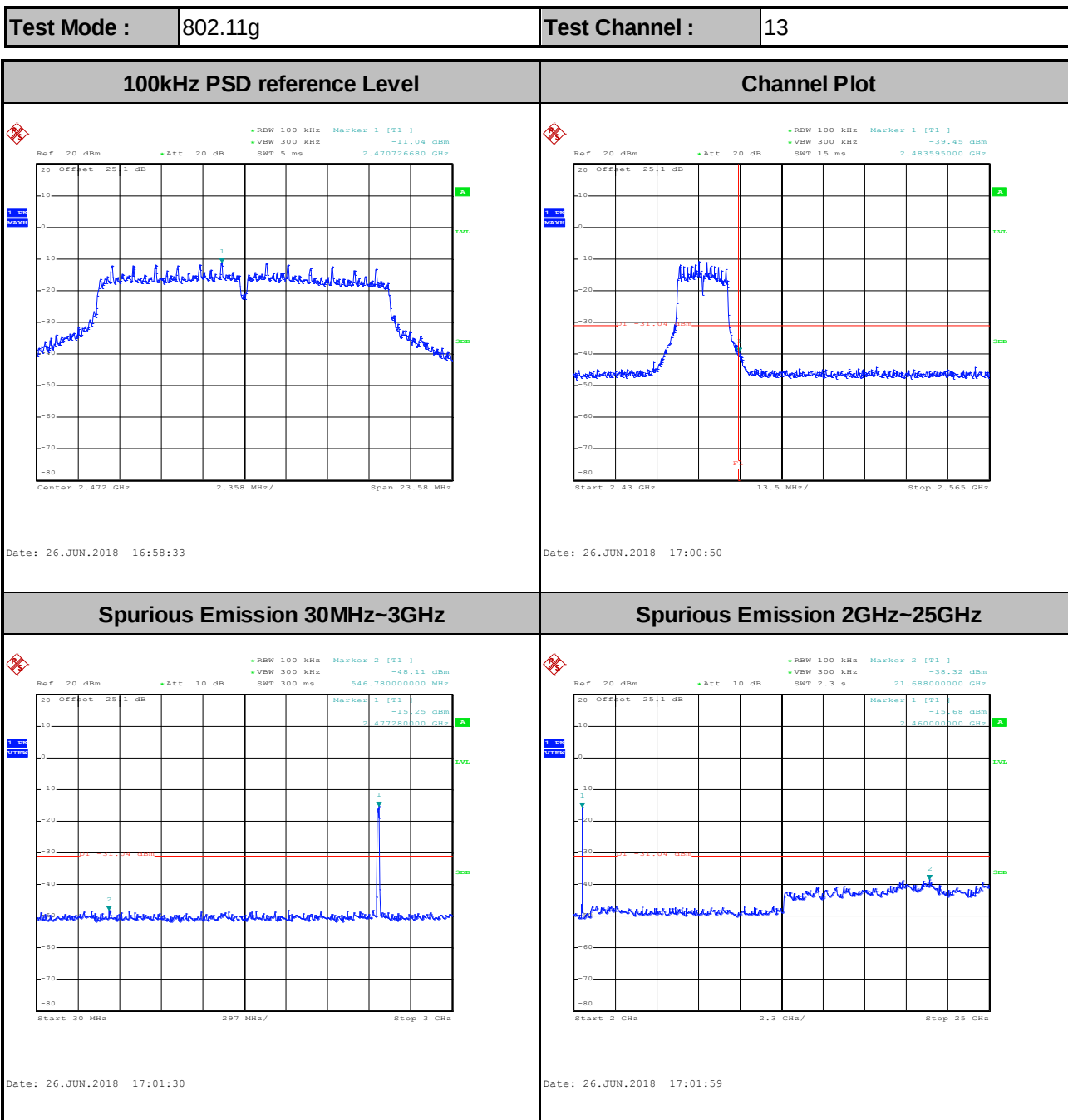


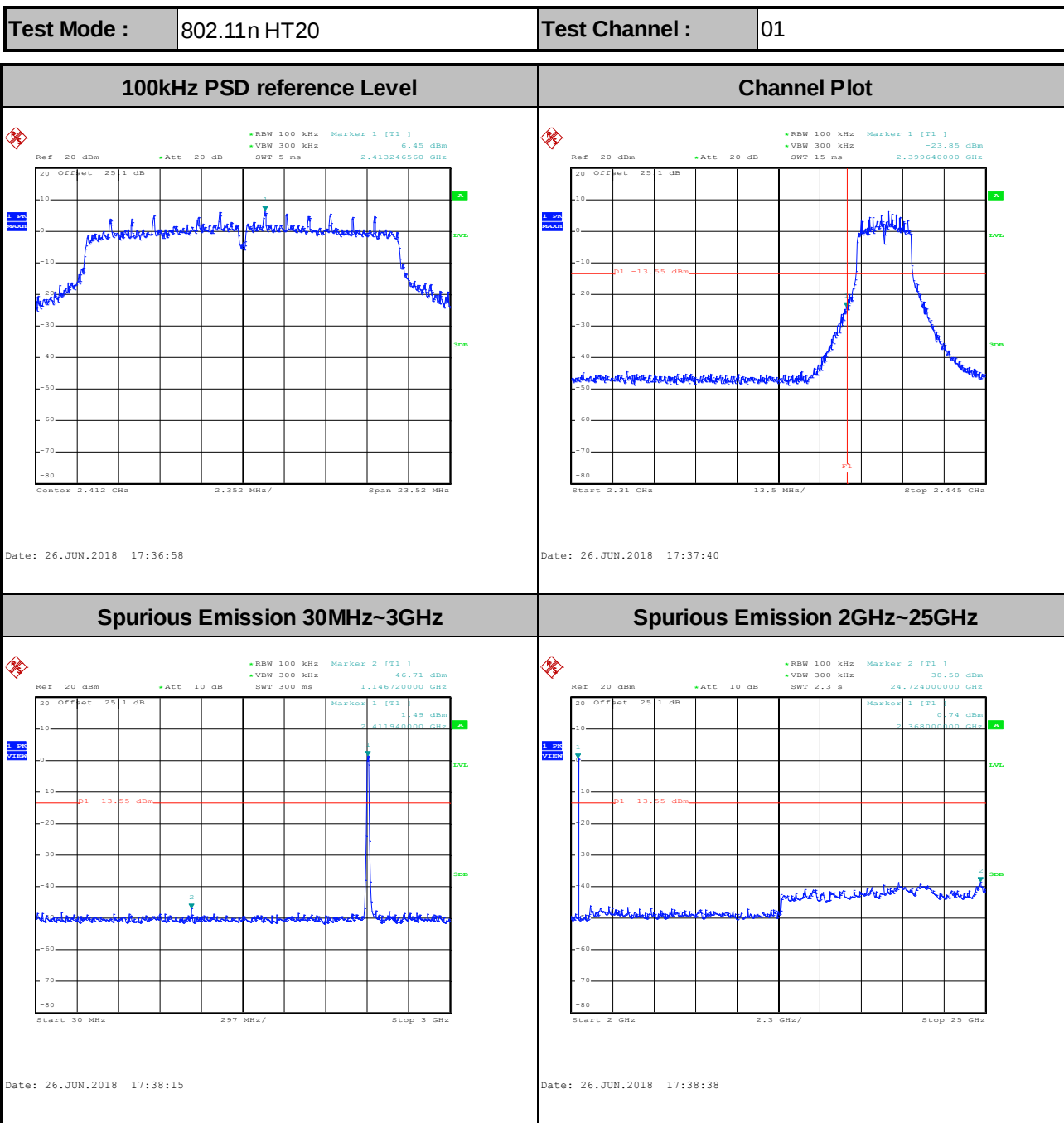
Date: 26.JUN.2018 16:41:57

Spurious Emission 2GHz~25GHz



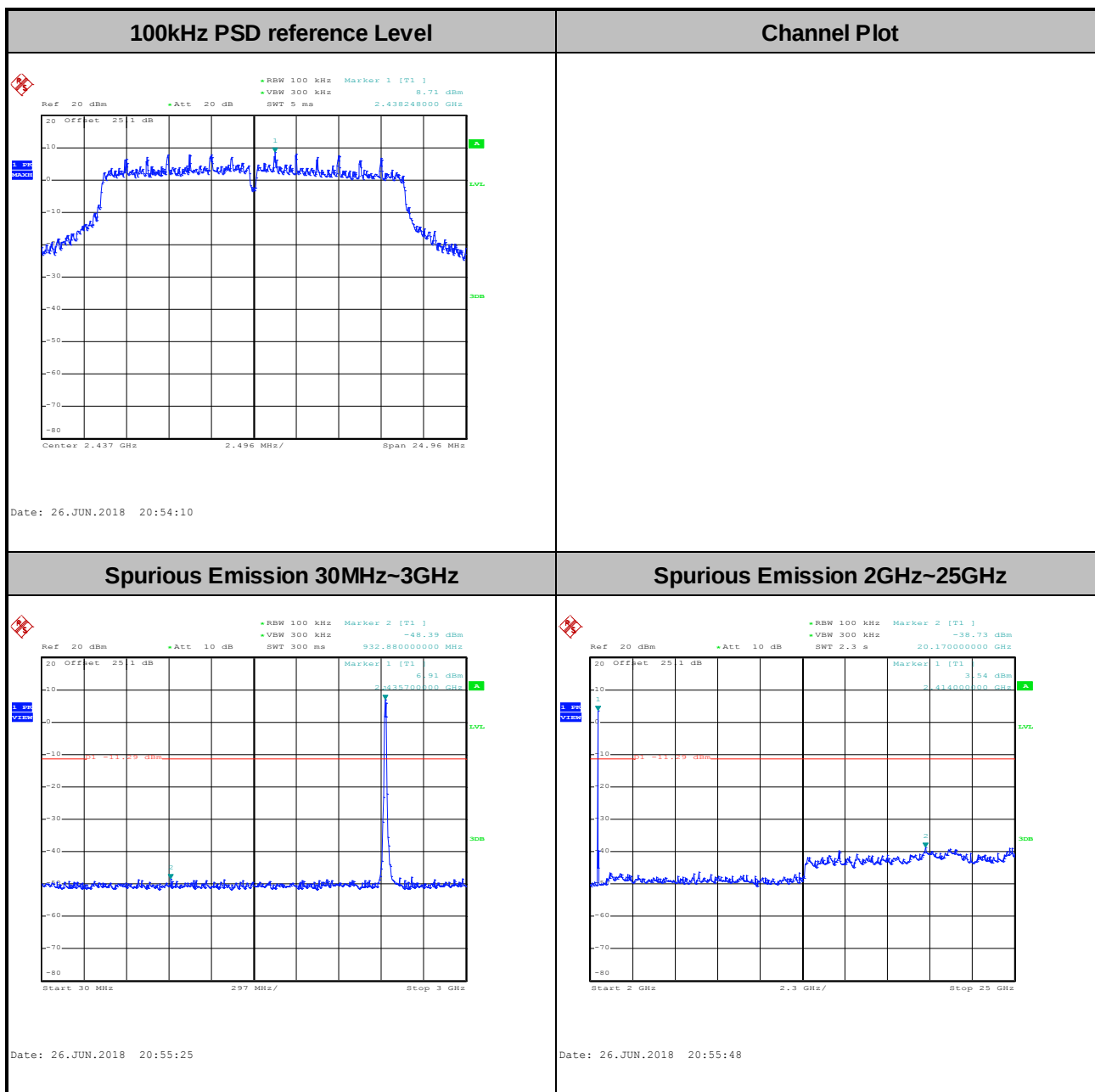
Date: 26.JUN.2018 16:42:25







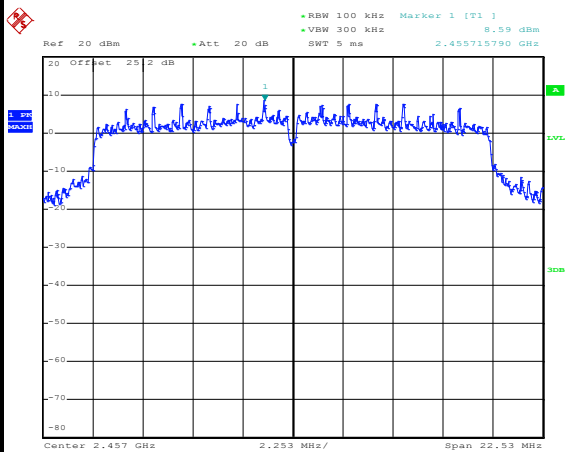
Test Mode :	802.11n HT20	Test Channel :	06
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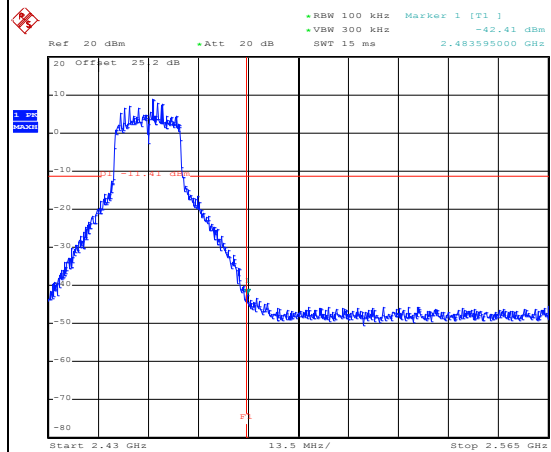
Test Mode :	802.11n HT20	Test Channel :	10
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100kHz PSD reference Level



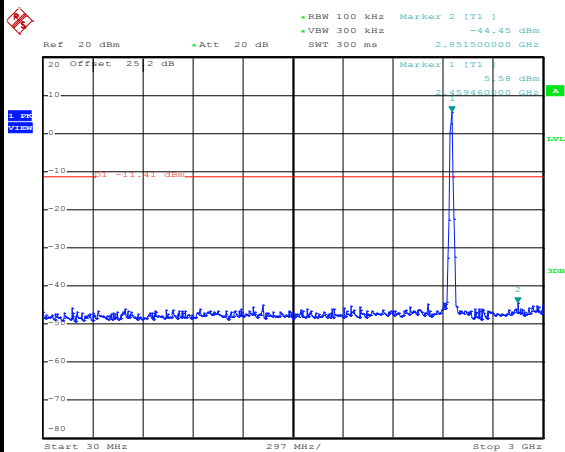
Date: 28.JUN.2018 07:56:44

Channel Plot



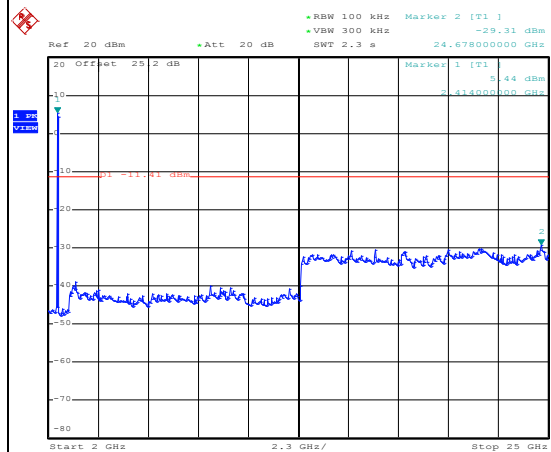
Date: 28.JUN.2018 07:58:56

Spurious Emission 30MHz~3GHz

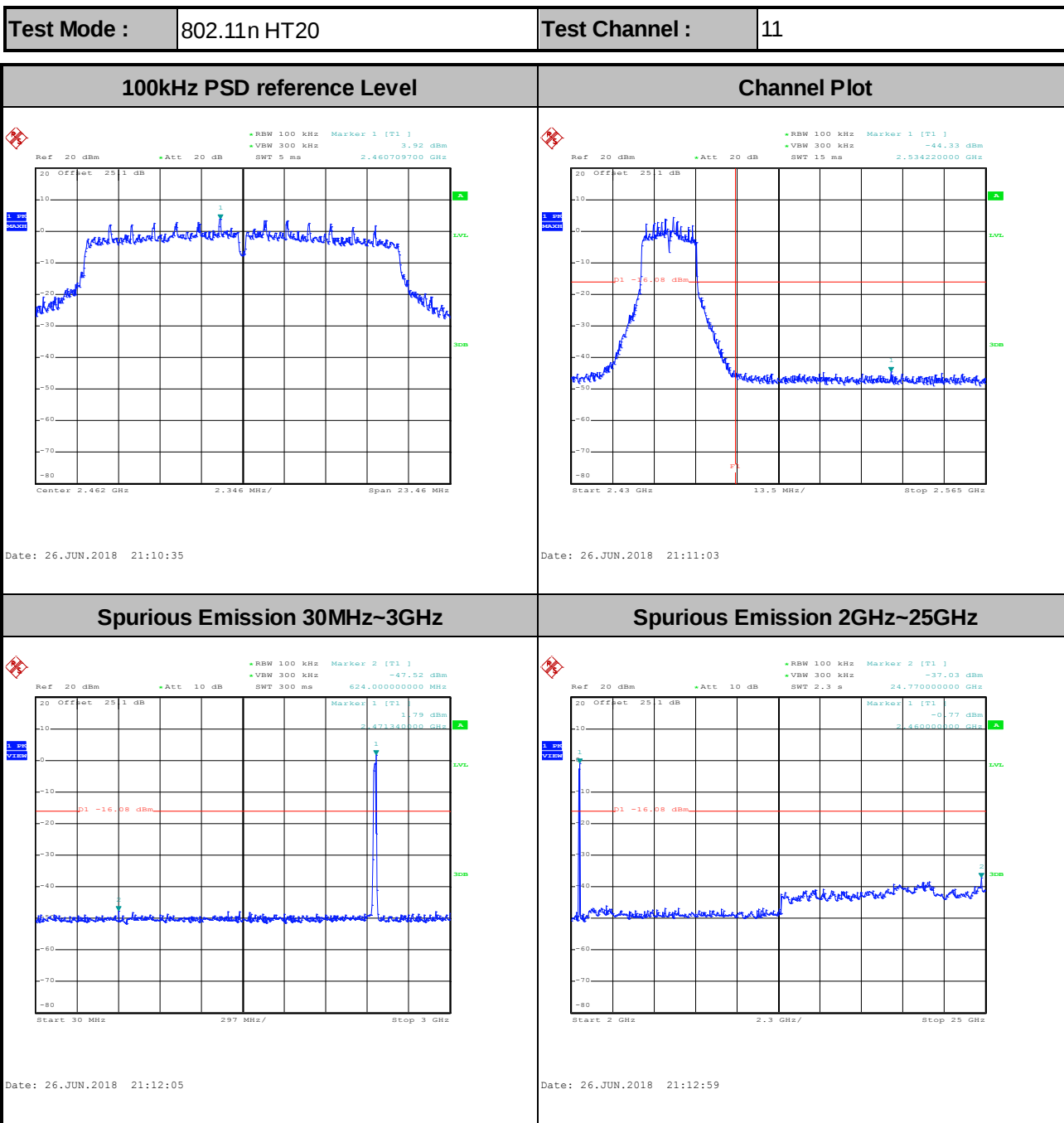


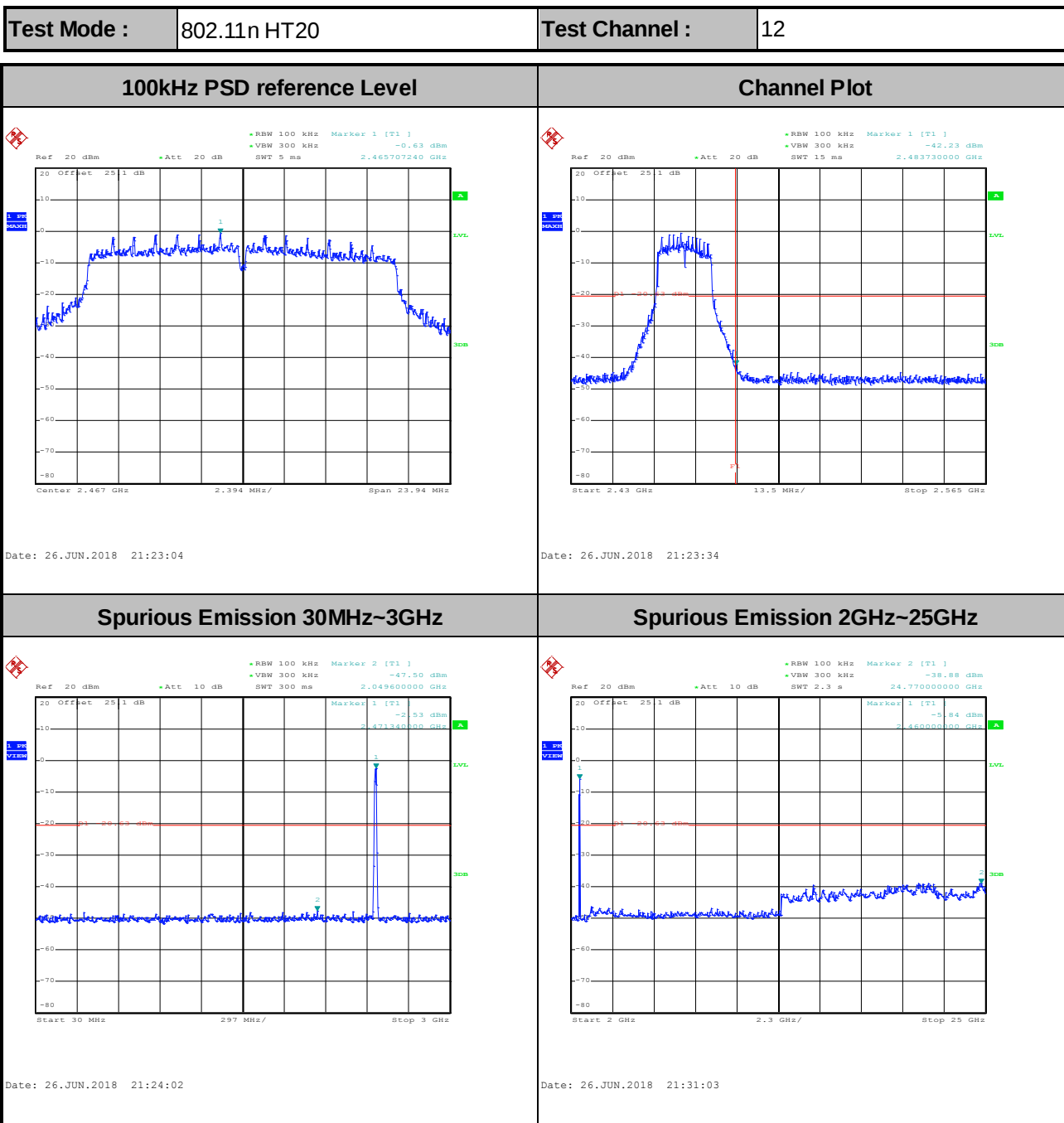
Date: 28.JUN.2018 08:00:33

Spurious Emission 2GHz~25GHz



Date: 28.JUN.2018 08:00:47



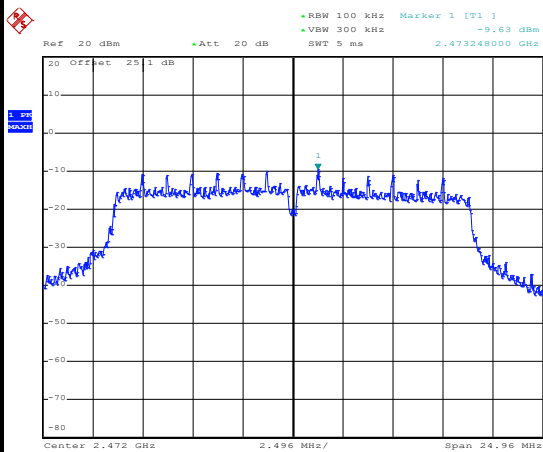




Test Mode : 802.11n HT20

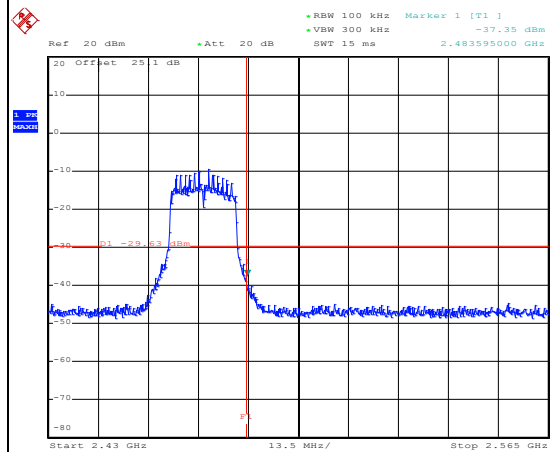
Test Channel : 13

100kHz PSD reference Level



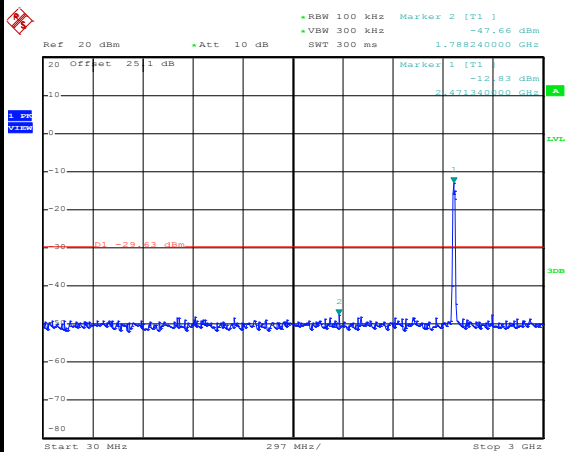
Date: 26.JUN.2018 21:44:39

Channel Plot



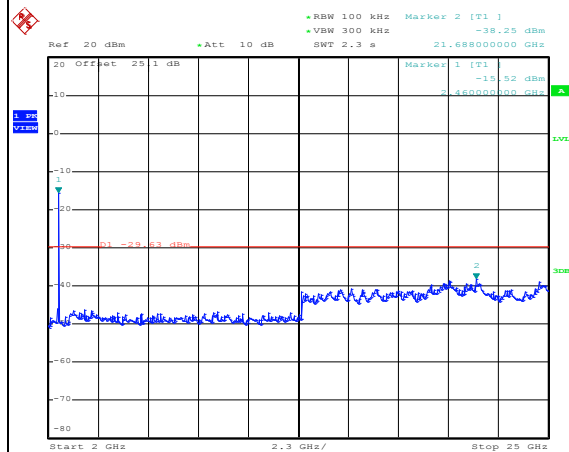
Date: 26.JUN.2018 21:45:09

Spurious Emission 30MHz~3GHz



Date: 26.JUN.2018 21:45:40

Spurious Emission 2GHz~25GHz



Date: 26.JUN.2018 21:46:05

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

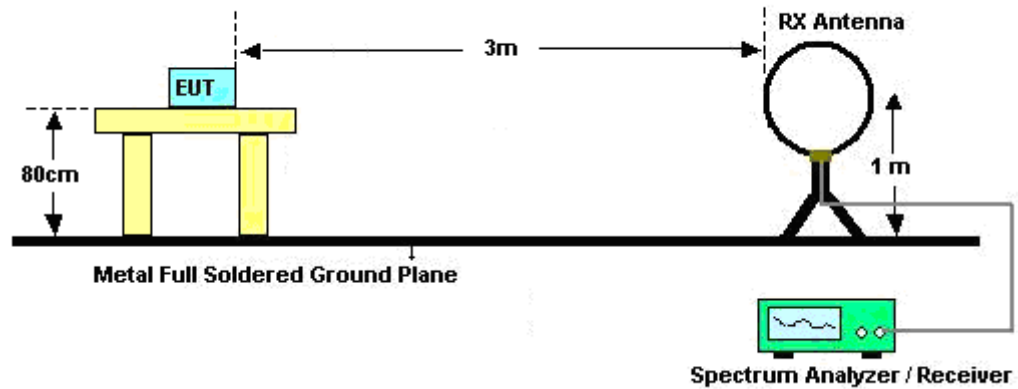
1. The testing follows FCC KDB Publication No. 558074 D01 DTS Meas. Guidance v04.
2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test 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:

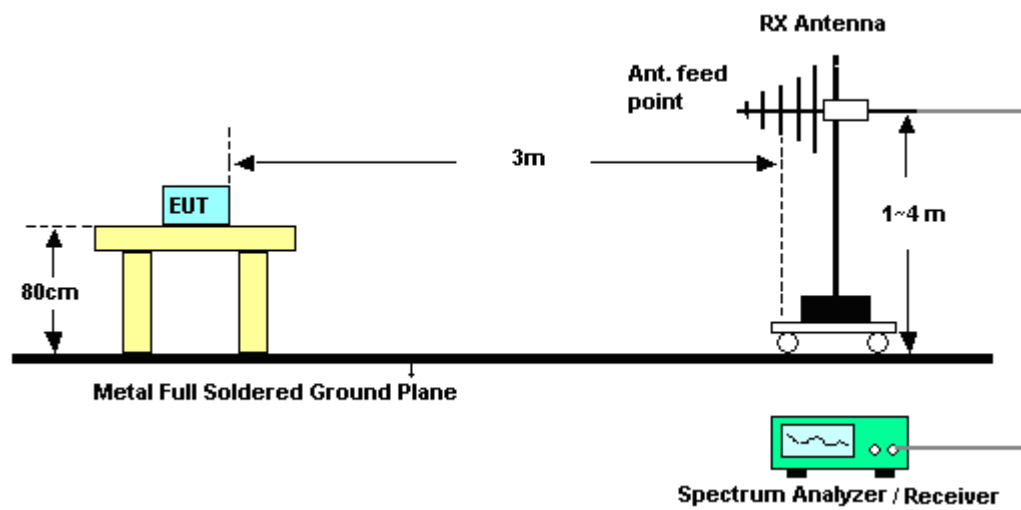
 - VBW = 10 Hz, when duty cycle is no less than 98 percent.
 - VBW $\geq 1/T$, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.

3.5.4 Test Setup

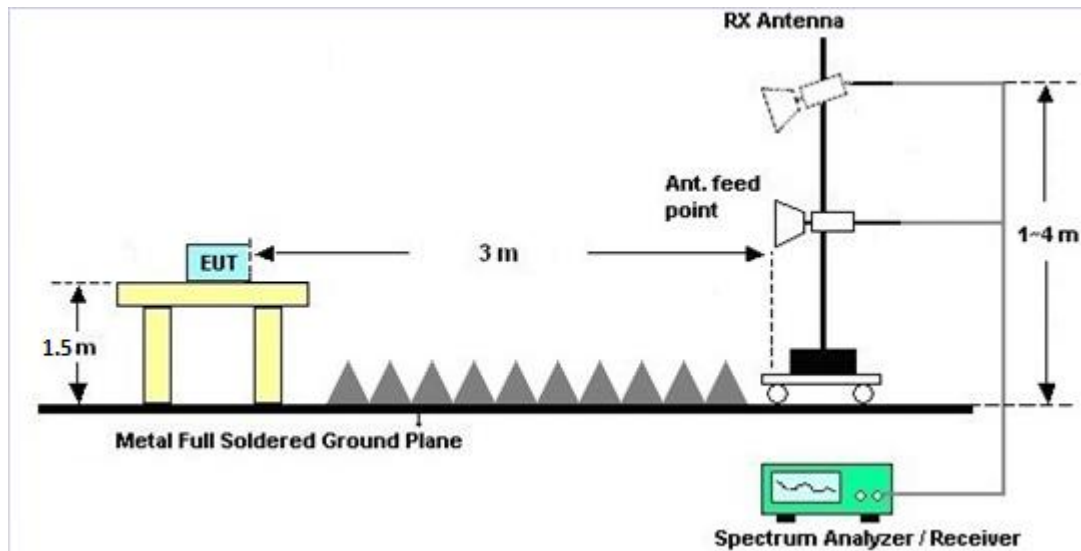
For radiated emissions below 30MHz



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 semi-Anechoic chamber, 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.

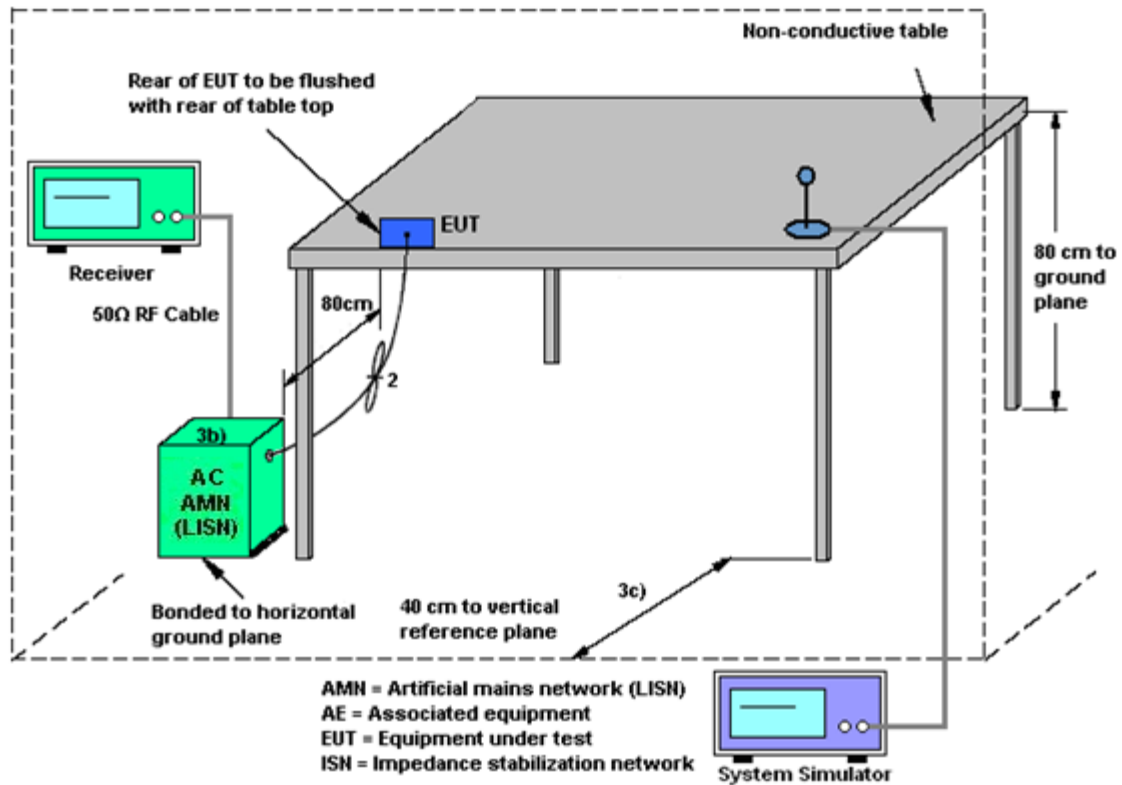
3.6.2 Measuring Instruments

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

<CDD Modes >

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

For CDD transmissions, directional gain is calculated as

Directional gain = G_{ANT} + Array Gain, where Array Gain is as follows.

For power spectral density (PSD) measurements on all devices,

Array Gain = $10 \log(N_{ANT}/N_{SS}=1)$ dB.

For power measurements on IEEE 802.11 devices,

Array Gain = 0 dB (i.e., no array gain) for $N_{ANT} \leq 4$.

Directional gain may be calculated by using the formulas applicable to equal gain antennas with G_{ANT} set equal to the gain of the antenna having the highest gain;

The EUT supports CDD mode.

For power, the directional gain G_{ANT} is set equal to the antenna having the highest gain, i.e., F)2)f)i).

For PSD, the directional gain calculation is following F)2)f)ii) of KDB 662911 D01 v02r01.

The power and PSD limit should be modified if the directional gain of EUT is over 6 dBi,

The directional gain "DG" is calculated as following table.

<CDD Modes>						
			DG	DG	Power	PSD
			for	for	Limit	Limit
	Ant. 1	Ant. 2	Power	PSD	Reduction	Reduction
	(dBi)	(dBi)	(dBi)	(dBi)	(dB)	(dB)
2.4 GHz	-2.90	-3.00	-2.90	0.06	0.00	0.00

$Power\ Limit\ Reduction = DG(Power) - 6dBi, (min = 0)$

$PSD\ Limit\ Reduction = DG(PSD) - 6dBi, (min = 0)$



4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Power Meter	Agilent	E4416A	GB41292344	N/A	Dec. 20, 2017	Jun. 06, 2018~ Jun. 28, 2018	Dec. 19, 2018	Conducted (TH05-HY)
Power Sensor	Agilent	E9327A	US40441548	50MHz~18GHz	Dec. 20, 2017	Jun. 06, 2018~ Jun. 28, 2018	Dec. 19, 2018	Conducted (TH05-HY)
Spectrum Analyzer	Rohde & Schwarz	FSP30	101067	9kHz ~ 30GHz	Nov. 13, 2017	Jun. 06, 2018~ Jun. 28, 2018	Nov. 12, 2018	Conducted (TH05-HY)
Switch Box & RF Cable	Burgeon	ETF-058	EC1300484	N/A	Mar. 01, 2018	Jun. 06, 2018~ Jun. 28, 2018	Feb. 28, 2019	Conducted (TH05-HY)
Hygrometer	TECPEL	HTC-1	2	N/A	Mar. 06, 2018	Jun. 06, 2018~ Jun. 28, 2018	Mar. 05, 2019	Conducted (TH05-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY84209521	1GHz~26GHz	Dec. 01, 2017	Jun. 06, 2018~ Jun. 28, 2018	Nov. 30, 2018	Conducted (TH05-HY)
AC Power Source	ChainTek	APC-1000W	N/A	N/A	N/A	Jun. 23, 2018	N/A	Conduction (CO05-HY)
EMI Test Receiver	Rohde & Schwarz	ESR3	102388	3.6GHz	Dec. 08, 2017	Jun. 23, 2018	Dec. 07, 2018	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100080	9kHz~30MHz	Nov. 30, 2017	Jun. 23, 2018	Nov. 29, 2018	Conduction (CO05-HY)
LF Cable	HUBER + SUHNER	RG-214/U	LF01	N/A	Jan. 03, 2018	Jun. 23, 2018	Jan. 02, 2019	Conduction (CO05-HY)
Test Software	Rohde & Schwarz	EMC32 V10.30	N/A	N/A	N/A	Jun. 23, 2018	N/A	Conduction (CO05-HY)
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100851	N/A	Jan. 03, 2018	Jun. 23, 2018	Jan. 02, 2019	Conduction (CO05-HY)
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100488	9 kHz~30 MHz	Nov. 23, 2017	Jun. 12, 2018~ Jun. 29, 2018	Nov. 22, 2018	Radiation (03CH15-HY)
Bilog Antenna	TESEQ	CBL6111D&0 0800N1D01N-06	41912&05	30MHz to 1GHz	Jan. 10, 2018	Jun. 12, 2018~ Jun. 29, 2018	Jan. 09, 2019	Radiation (03CH15-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120D	9120D-1620	1G~18GHz	Oct. 03, 2017	Jun. 12, 2018~ Jun. 29, 2018	Oct. 02, 2018	Radiation (03CH15-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170584	18GHz- 40GHz	Nov. 27, 2017	Jun. 12, 2018~ Jun. 29, 2018	Nov. 26, 2018	Radiation (03CH15-HY)
EMI Test Receiver	Keysight	N9038A (MXE)	MY54130085	20Hz ~ 8.4GHz	Oct. 31, 2017	Jun. 12, 2018~ Jun. 29, 2018	Oct. 30, 2018	Radiation (03CH15-HY)
Spectrum Analyzer	Agilent	E4446A	MY50180136	3Hz~44GHz	Apr. 25, 2018	Jun. 12, 2018~ Jun. 29, 2018	Apr. 24, 2019	Radiation (03CH15-HY)
Amplifier	SONOMA	310N	363440	9kHz~1GHz	Dec. 26, 2017	Jun. 12, 2018~ Jun. 29, 2018	Dec. 25, 2018	Radiation (03CH15-HY)
Preamplifier	Jet-Power	JPA00101800-30-10P	1601180002	1GHz~18GHz	Jul. 31, 2017	Jun. 12, 2018~ Jun. 29, 2018	Jul. 30, 2018	Radiation (03CH15-HY)
Preamplifier	Keysight	83017A	MY53270195	1GHz~26.5GHz	Aug. 21, 2017	Jun. 12, 2018~ Jun. 29, 2018	Aug. 20, 2018	Radiation (03CH15-HY)



Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Hygrometer	TECPEL	DTM-303B	TP162976	N/A	Oct. 12, 2017	Jun. 12, 2018~ Jun. 29, 2018	Oct. 11, 2018	Radiation (03CH15-HY)
RF Cable	HUBER + SUHNER / MTJ Cooperation	SUCOFLEX 104 / 000000-MT18 A-100	MY36980/4, MY9838/4PE, D3210	30MHz~1GHz	Mar. 15, 2018	Jun. 12, 2018~ Jun. 29, 2018	Mar. 14, 2019	Radiation (03CH15-HY)
RF Cable	HUBER + SUHNER / MTJ Cooperation	SUCOFLEX 104 / 000000-MT18 A-100	MY36980/4, MY9838/4PE, D3210	1GHz~18GHz	Mar. 15, 2018	Jun. 12, 2018~ Jun. 29, 2018	Mar. 14, 2019	Radiation (03CH15-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	505134/2	30M~40GHz	Oct. 17, 2017	Jun. 12, 2018~ Jun. 29, 2018	Oct. 16, 2018	Radiation (03CH15-HY)
Filter	Wainwright	WHKX12-270 0-3000-18000 -60SS	SN3	2.7G High Pass	Sep. 18, 2017	Jun. 12, 2018~ Jun. 29, 2018	Sep. 17, 2018	Radiation (03CH15-HY)
Filter	Wainwright	WLK4-1000-1 530-8000-40S S	SN11	1G Low Pass	Sep. 18, 2017	Jun. 12, 2018~ Jun. 29, 2018	Sep. 17, 2018	Radiation (03CH15-HY)
Controller	ChainTek	3000-1	N/A	Control Turn table & Ant Mast	N/A	Jun. 12, 2018~ Jun. 29, 2018	N/A	Radiation (03CH15-HY)
Antenna Mast	ChainTek	MBS-520-1	N/A	1m~4m	N/A	Jun. 12, 2018~ Jun. 29, 2018	N/A	Radiation (03CH15-HY)
Turn Table	ChainTek	T-200-S-1	N/A	0~360 Degree	N/A	Jun. 12, 2018~ Jun. 29, 2018	N/A	Radiation (03CH15-HY)
Software	Audix	E3 6.2009-8-24	RK-001042	N/A	N/A	Jun. 12, 2018~ Jun. 29, 2018	N/A	Radiation (03CH15-HY)



5 Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	2.70
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Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

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

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

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

Test Engineer:	Shiming Liu / Tommy Lee	Temperature:	21~25	°C
Test Date:	2018/6/6~2018/6/28	Relative Humidity:	51~54	%

TEST RESULTS DATA
6dB and 99% Occupied Bandwidth

2.4GHz Band										
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Occupied BW (MHz)		6dB BW (MHz)		6dB BW Limit (MHz)	Pass/Fail
					Ant 1	Ant 2	Ant 1	Ant 2		
11b	1Mbps	2	1	2412	13.90	14.10	8.56	9.04	0.50	Pass
11b	1Mbps	2	6	2437	14.30	14.45	9.00	9.00	0.50	Pass
11b	1Mbps	2	11	2462	14.00	14.85	9.00	9.52	0.50	Pass
11b	1Mbps	2	12	2467	13.80	13.90	8.52	8.52	0.50	Pass
11b	1Mbps	2	13	2472	13.90	13.90	9.00	9.00	0.50	Pass
11g	6Mbps	2	1	2412	16.90	16.65	15.32	15.72	0.50	Pass
11g	6Mbps	2	6	2437	16.75	16.70	15.48	15.72	0.50	Pass
11g	6Mbps	2	10	2457	16.85	17.05	15.04	15.04	0.50	Pass
11g	6Mbps	2	11	2462	16.75	16.60	15.12	15.12	0.50	Pass
11g	6Mbps	2	12	2467	16.65	16.65	15.72	15.72	0.50	Pass
11g	6Mbps	2	13	2472	16.75	16.80	15.72	15.72	0.50	Pass
HT20	MCS0	2	1	2412	17.85	17.85	15.32	15.68	0.50	Pass
HT20	MCS0	2	6	2437	18.20	17.85	16.28	16.64	0.50	Pass
HT20	MCS0	2	10	2457	17.95	18.20	15.08	15.02	0.50	Pass
HT20	MCS0	2	11	2462	17.85	17.80	15.44	15.64	0.50	Pass
HT20	MCS0	2	12	2467	17.80	17.80	15.92	15.96	0.50	Pass
HT20	MCS0	2	13	2472	17.95	17.95	16.08	16.64	0.50	Pass

TEST RESULTS DATA
Peak Output Power

2.4GHz Band																
Mod.	Data Rate	N _{TX}	CH.	Freq. (MHz)	Peak Conducted Power (dBm)			Conducted Power Limit (dBm)		DG (dBi)		EIRP Power (dBm)		EIRP Power Limit (dBm)		Pass /Fail
					Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	
11b	1Mbps	1	1	2412	20.53	20.75	-	30.00	30.00	-2.90	-3.00	17.63	17.75	36.00	36.00	Pass
11b	1Mbps	1	6	2437	21.52	21.84	-	30.00	30.00	-2.90	-3.00	18.62	18.84	36.00	36.00	Pass
11b	1Mbps	1	11	2462	21.50	21.81	-	30.00	30.00	-2.90	-3.00	18.60	18.81	36.00	36.00	Pass
11b	1Mbps	1	12	2467	19.05	19.20	-	30.00	30.00	-2.90	-3.00	16.15	16.20	36.00	36.00	Pass
11b	1Mbps	1	13	2472	17.15	17.41	-	30.00	30.00	-2.90	-3.00	14.25	14.41	36.00	36.00	Pass
11g	6Mbps	1	1	2412	22.08	22.09	-	30.00	30.00	-2.90	-3.00	19.18	19.09	36.00	36.00	Pass
11g	6Mbps	1	6	2437	22.17	22.20	-	30.00	30.00	-2.90	-3.00	19.27	19.20	36.00	36.00	Pass
11g	6Mbps	1	10	2457	22.10	22.10	-	30.00	30.00	-2.90	-3.00	19.20	19.10	36.00	36.00	Pass
11g	6Mbps	1	11	2462	20.20	20.47	-	30.00	30.00	-2.90	-3.00	17.30	17.47	36.00	36.00	Pass
11g	6Mbps	1	12	2467	12.88	12.97	-	30.00	30.00	-2.90	-3.00	9.98	9.97	36.00	36.00	Pass
11g	6Mbps	1	13	2472	5.35	5.46	-	30.00	30.00	-2.90	-3.00	2.45	2.46	36.00	36.00	Pass
HT20	MCS0	1	1	2412	20.27	20.41	-	30.00	30.00	-2.90	-3.00	17.37	17.41	36.00	36.00	Pass
HT20	MCS0	1	6	2437	22.22	22.28	-	30.00	30.00	-2.90	-3.00	19.32	19.28	36.00	36.00	Pass
HT20	MCS0	1	10	2457	22.15	22.23	-	30.00	30.00	-2.90	-3.00	19.25	19.23	36.00	36.00	Pass
HT20	MCS0	1	11	2462	18.32	18.58	-	30.00	30.00	-2.90	-3.00	15.42	15.58	36.00	36.00	Pass
HT20	MCS0	1	12	2467	13.81	13.98	-	30.00	30.00	-2.90	-3.00	10.91	10.98	36.00	36.00	Pass
HT20	MCS0	1	13	2472	5.92	6.06	-	30.00	30.00	-2.90	-3.00	3.02	3.06	36.00	36.00	Pass
VHT20	MCS0	1	1	2412	20.26	20.40	-	30.00	30.00	-2.90	-3.00	17.36	17.40	36.00	36.00	Pass
VHT20	MCS0	1	6	2437	22.10	22.13	-	30.00	30.00	-2.90	-3.00	19.20	19.13	36.00	36.00	Pass
VHT20	MCS0	1	10	2457	22.08	22.00	-	30.00	30.00	-2.90	-3.00	19.18	19.00	36.00	36.00	Pass
VHT20	MCS0	1	11	2462	18.31	18.57	-	30.00	30.00	-2.90	-3.00	15.41	15.57	36.00	36.00	Pass
VHT20	MCS0	1	12	2467	13.79	13.97	-	30.00	30.00	-2.90	-3.00	10.89	10.97	36.00	36.00	Pass
VHT20	MCS0	1	13	2472	5.80	6.00	-	30.00	30.00	-2.90	-3.00	2.90	3.00	36.00	36.00	Pass
11b	1Mbps	2	1	2412	20.68	20.76	23.73	30.00		-2.90		20.83		36.00		Pass
11b	1Mbps	2	6	2437	21.55	21.85	24.71	30.00		-2.90		21.81		36.00		Pass
11b	1Mbps	2	11	2462	21.52	21.83	24.69	30.00		-2.90		21.79		36.00		Pass
11b	1Mbps	2	12	2467	19.23	19.27	22.26	30.00		-2.90		19.36		36.00		Pass
11b	1Mbps	2	13	2472	17.30	17.57	20.45	30.00		-2.90		17.55		36.00		Pass
11g	6Mbps	2	1	2412	22.15	22.10	25.14	30.00		-2.90		22.24		36.00		Pass
11g	6Mbps	2	6	2437	22.20	22.22	25.22	30.00		-2.90		22.32		36.00		Pass
11g	6Mbps	2	10	2457	22.18	22.11	25.16	30.00		-2.90		22.26		36.00		Pass
11g	6Mbps	2	11	2462	20.22	20.52	23.38	30.00		-2.90		20.48		36.00		Pass
11g	6Mbps	2	12	2467	12.95	13.00	15.99	30.00		-2.90		13.09		36.00		Pass
11g	6Mbps	2	13	2472	5.50	5.52	8.52	30.00		-2.90		5.62		36.00		Pass
HT20	MCS0	2	1	2412	20.33	20.42	23.39	30.00		-2.90		20.49		36.00		Pass
HT20	MCS0	2	6	2437	22.28	22.30	25.30	30.00		-2.90		22.40		36.00		Pass
HT20	MCS0	2	10	2457	22.25	22.24	25.26	30.00		-2.90		22.36		36.00		Pass
HT20	MCS0	2	11	2462	18.36	18.61	21.50	30.00		-2.90		18.60		36.00		Pass
HT20	MCS0	2	12	2467	13.82	14.00	16.92	30.00		-2.90		14.02		36.00		Pass
HT20	MCS0	2	13	2472	5.94	6.16	9.06	30.00		-2.90		6.16		36.00		Pass
VHT20	MCS0	2	1	2412	20.31	20.41	23.37	30.00		-2.90		20.47		36.00		Pass
VHT20	MCS0	2	6	2437	22.13	22.15	25.15	30.00		-2.90		22.25		36.00		Pass
VHT20	MCS0	2	10	2457	22.10	22.03	25.08	30.00		-2.90		22.18		36.00		Pass
VHT20	MCS0	2	11	2462	18.34	18.60	21.48	30.00		-2.90		18.58		36.00		Pass
VHT20	MCS0	2	12	2467	13.81	13.98	16.91	30.00		-2.90		14.01		36.00		Pass
VHT20	MCS0	2	13	2472	5.85	6.12	9.00	30.00		-2.90		6.10		36.00		Pass

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

TEST RESULTS DATA
Average Output Power

2.4GHz Band									
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)		Average Conducted Power (dBm)		
					Ant 1	Ant 2	Ant 1	Ant 2	SUM
11b	1Mbps	1	1	2412	0.00	0.00	18.18	18.58	-
11b	1Mbps	1	6	2437	0.00	0.00	19.54	19.77	
11b	1Mbps	1	11	2462	0.00	0.00	19.53	19.74	
11b	1Mbps	1	12	2467	0.00	0.00	16.73	16.84	
11b	1Mbps	1	13	2472	0.00	0.00	14.80	15.01	
11g	6Mbps	1	1	2412	0.08	0.10	17.45	17.78	
11g	6Mbps	1	6	2437	0.08	0.10	18.21	18.27	
11g	6Mbps	1	10	2457	0.08	0.10	18.02	18.25	
11g	6Mbps	1	11	2462	0.08	0.10	15.38	15.60	
11g	6Mbps	1	12	2467	0.08	0.10	8.16	8.32	
11g	6Mbps	1	13	2472	0.08	0.10	-1.67	-1.58	
HT20	MCS0	1	1	2412	0.11	0.11	15.38	15.65	
HT20	MCS0	1	6	2437	0.11	0.11	18.13	18.24	
HT20	MCS0	1	10	2457	0.11	0.11	17.93	18.21	
HT20	MCS0	1	11	2462	0.11	0.11	13.28	13.62	
HT20	MCS0	1	12	2467	0.11	0.11	8.90	9.16	
HT20	MCS0	1	13	2472	0.11	0.11	-0.46	-0.30	
VHT20	MCS0	1	1	2412	0.11	0.11	15.37	15.64	
VHT20	MCS0	1	6	2437	0.11	0.11	18.06	18.23	
VHT20	MCS0	1	10	2457	0.11	0.11	17.91	18.22	
VHT20	MCS0	1	11	2462	0.11	0.11	13.26	13.60	
VHT20	MCS0	1	12	2467	0.11	0.11	8.88	9.15	
VHT20	MCS0	1	13	2472	0.11	0.11	-0.55	-0.34	
11b	1Mbps	2	1	2412	0.00	0.00	18.32	18.61	21.48
11b	1Mbps	2	6	2437	0.00	0.00	19.55	19.78	22.68
11b	1Mbps	2	11	2462	0.00	0.00	19.54	19.75	22.66
11b	1Mbps	2	12	2467	0.00	0.00	16.81	16.95	19.89
11b	1Mbps	2	13	2472	0.00	0.00	14.92	15.05	18.00
11g	6Mbps	2	1	2412	0.10	0.10	17.60	17.82	20.72
11g	6Mbps	2	6	2437	0.10	0.10	18.22	18.30	21.27
11g	6Mbps	2	10	2457	0.10	0.10	18.14	18.28	21.22
11g	6Mbps	2	11	2462	0.10	0.10	15.43	15.62	18.54
11g	6Mbps	2	12	2467	0.10	0.10	8.20	8.35	11.29
11g	6Mbps	2	13	2472	0.10	0.10	-1.65	-1.54	1.42
HT20	MCS0	2	1	2412	0.11	0.11	15.44	15.67	18.57
HT20	MCS0	2	6	2437	0.11	0.11	18.18	18.26	21.23
HT20	MCS0	2	10	2457	0.11	0.11	17.96	18.24	21.11
HT20	MCS0	2	11	2462	0.11	0.11	13.29	13.64	16.48
HT20	MCS0	2	12	2467	0.11	0.11	8.91	9.19	12.06
HT20	MCS0	2	13	2472	0.11	0.11	-0.42	-0.24	2.68
VHT20	MCS0	2	1	2412	0.11	0.11	15.43	15.66	18.56
VHT20	MCS0	2	6	2437	0.11	0.11	18.15	18.25	21.21
VHT20	MCS0	2	10	2457	0.11	0.11	17.83	18.23	21.04
VHT20	MCS0	2	11	2462	0.11	0.11	13.28	13.62	16.46
VHT20	MCS0	2	12	2467	0.11	0.11	8.90	9.18	12.05
VHT20	MCS0	2	13	2472	0.11	0.11	-0.53	-0.29	2.60

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	2	1	2412	-3.27	-3.51	-0.26	0.06		8.00		Pass
11b	1Mbps	2	6	2437	-2.91	-3.16	0.10	0.06		8.00		Pass
11b	1Mbps	2	11	2462	-3.32	-2.02	0.99	0.06		8.00		Pass
11b	1Mbps	2	12	2467	-4.57	-5.79	-1.56	0.06		8.00		Pass
11b	1Mbps	2	13	2472	-6.84	-7.62	-3.83	0.06		8.00		Pass
11g	6Mbps	2	1	2412	-7.91	-6.03	-3.02	0.06		8.00		Pass
11g	6Mbps	2	6	2437	-6.13	-6.90	-3.12	0.06		8.00		Pass
11g	6Mbps	2	10	2457	-8.66	-8.37	-5.36	0.06		8.00		Pass
11g	6Mbps	2	11	2462	-7.62	-9.93	-4.61	0.06		8.00		Pass
11g	6Mbps	2	12	2467	-16.91	-15.89	-12.88	0.06		8.00		Pass
11g	6Mbps	2	13	2472	-27.32	-25.45	-22.44	0.06		8.00		Pass
HT20	MCS0	2	1	2412	-9.06	-9.89	-6.05	0.06		8.00		Pass
HT20	MCS0	2	6	2437	-7.71	-6.43	-3.42	0.06		8.00		Pass
HT20	MCS0	2	10	2457	-8.97	-8.84	-5.83	0.06		8.00		Pass
HT20	MCS0	2	11	2462	-12.36	-12.01	-9.00	0.06		8.00		Pass
HT20	MCS0	2	12	2467	-16.36	-16.68	-13.35	0.06		8.00		Pass
HT20	MCS0	2	13	2472	-25.03	-26.29	-22.02	0.06		8.00		Pass

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



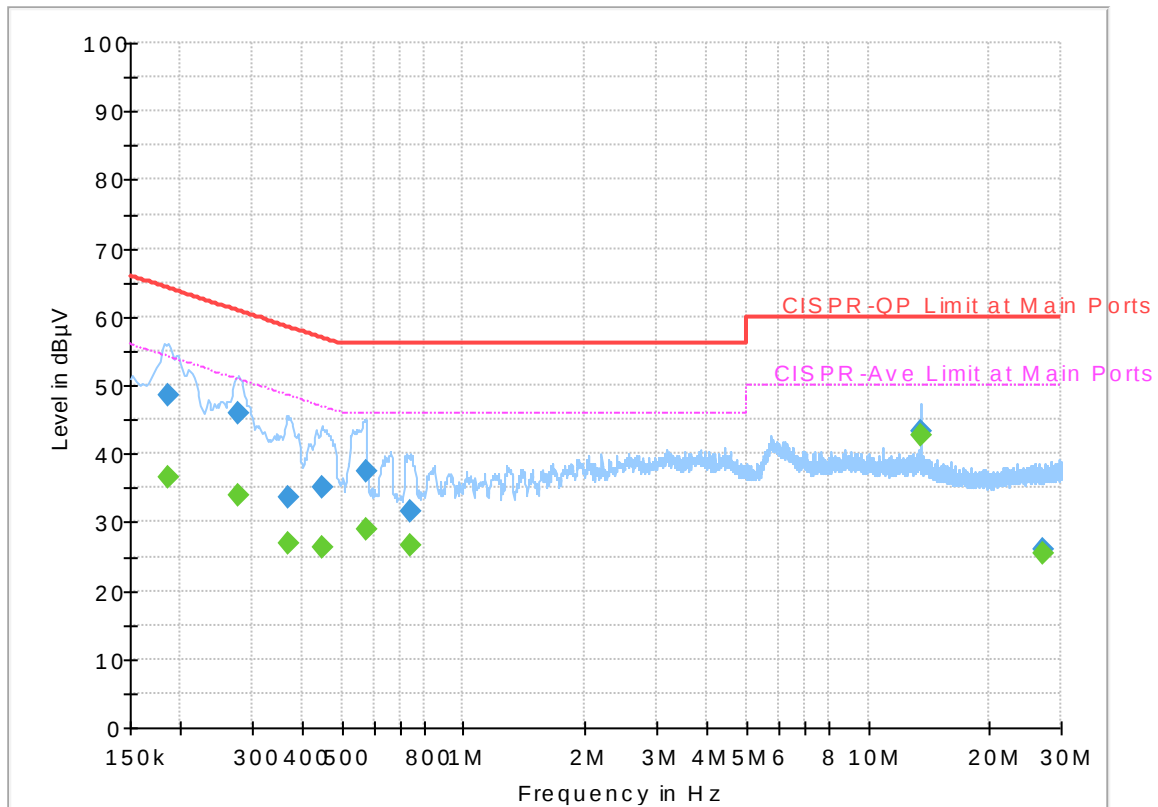
Appendix B. AC Conducted Emission Test Results

Test Engineer :	Blue Lan	Temperature :	25~26℃
		Relative Humidity :	51~53%

EUT Information

Report NO : 820502-02
Test Mode : Mode 1
Test Voltage : 120Vac/60Hz
Phase : Line

Full Spectrum



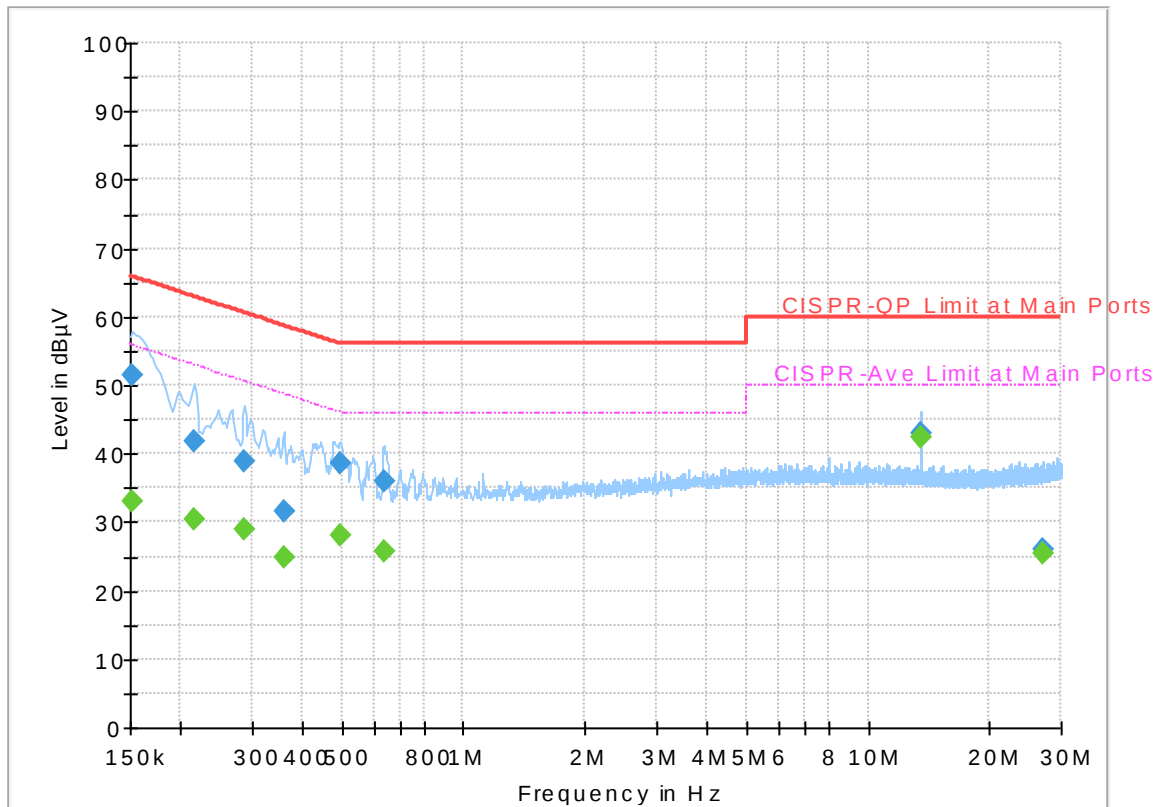
Final_Result

Frequency (MHz)	QuasiPeak (dBµV)	CAverage (dBµV)	Limit (dBµV)	Margin (dB)	Line	Filter	Corr. (dB)
0.186000	---	36.68	54.21	17.53	L1	OFF	19.5
0.186000	48.58	---	64.21	15.63	L1	OFF	19.5
0.278250	---	33.82	50.87	17.05	L1	OFF	19.5
0.278250	45.88	---	60.87	14.99	L1	OFF	19.5
0.368250	---	27.01	48.54	21.53	L1	OFF	19.5
0.368250	33.58	---	58.54	24.96	L1	OFF	19.5
0.447000	---	26.45	46.93	20.48	L1	OFF	19.5
0.447000	35.23	---	56.93	21.70	L1	OFF	19.5
0.573000	---	28.80	46.00	17.20	L1	OFF	19.5
0.573000	37.50	---	56.00	18.50	L1	OFF	19.5
0.741750	---	26.61	46.00	19.39	L1	OFF	19.6
0.741750	31.49	---	56.00	24.51	L1	OFF	19.6
13.560000	---	42.74	50.00	7.26	L1	OFF	20.0
13.560000	43.31	---	60.00	16.69	L1	OFF	20.0
27.120000	---	25.38	50.00	24.62	L1	OFF	20.4
27.120000	26.02	---	60.00	33.98	L1	OFF	20.4

EUT Information

Report NO : 820502-02
Test Mode : Mode 1
Test Voltage : 120Vac/60Hz
Phase : Neutral

Full Spectrum



Final_Result

Frequency (MHz)	QuasiPeak (dBµV)	CAverage (dBµV)	Limit (dBµV)	Margin (dB)	Line	Filter	Corr. (dB)
0.152250	---	33.12	55.88	22.76	N	OFF	19.5
0.152250	51.40	---	65.88	14.48	N	OFF	19.5
0.215250	---	30.37	53.00	22.63	N	OFF	19.5
0.215250	41.75	---	63.00	21.25	N	OFF	19.5
0.287250	---	28.97	50.60	21.63	N	OFF	19.5
0.287250	38.85	---	60.60	21.75	N	OFF	19.5
0.359250	---	24.87	48.75	23.88	N	OFF	19.5
0.359250	31.56	---	58.75	27.19	N	OFF	19.5
0.494250	---	28.06	46.10	18.04	N	OFF	19.5
0.494250	38.47	---	56.10	17.63	N	OFF	19.5
0.636000	---	25.72	46.00	20.28	N	OFF	19.6
0.636000	36.09	---	56.00	19.91	N	OFF	19.6
13.560000	---	42.54	50.00	7.46	N	OFF	20.1
13.560000	42.92	---	60.00	17.08	N	OFF	20.1
27.120000	---	25.49	50.00	24.51	N	OFF	20.6
27.120000	26.03	---	60.00	33.97	N	OFF	20.6



Appendix C. Radiated Spurious Emission

Test Engineer :	Bill Chang, Karl Hou, and Lance Chiang	Temperature :	22~25°C
		Relative Humidity :	52~57%

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	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
1+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11b CH 01 2412MHz		2356.2	52.94	-21.06	74	40.89	27.21	15.72	30.88	197	33	P	H
		2390	43.01	-10.99	54	30.77	27.31	15.78	30.85	197	33	A	H
	*	2412	105.23	-	-	92.91	27.36	15.81	30.85	197	33	P	H
	*	2412	102.63	-	-	90.31	27.36	15.81	30.85	197	33	A	H
		2371.53	52.92	-21.08	74	40.77	27.26	15.75	30.86	231	94	P	V
		2388.96	42.51	-11.49	54	30.29	27.31	15.77	30.86	231	94	A	V
	*	2412	106.81	-	-	94.49	27.36	15.81	30.85	231	94	P	V
	*	2412	103.92	-	-	91.6	27.36	15.81	30.85	231	94	A	V
802.11b CH 06 2437MHz		2366.56	53.03	-20.97	74	40.94	27.21	15.74	30.86	223	27	P	H
		2389.52	42.78	-11.22	54	30.56	27.31	15.77	30.86	223	27	A	H
	*	2437	108.42	-	-	95.96	27.46	15.84	30.84	223	27	P	H
	*	2437	105.11	-	-	92.65	27.46	15.84	30.84	223	27	A	H
		2484.11	53.65	-20.35	74	41.01	27.55	15.91	30.82	223	27	P	H
		2484.67	43.91	-10.09	54	31.27	27.55	15.91	30.82	223	27	A	H
		2372.16	53.01	-20.99	74	40.86	27.26	15.75	30.86	170	89	P	V
		2389.66	42.43	-11.57	54	30.21	27.31	15.77	30.86	170	89	A	V
	*	2437	108.15	-	-	95.69	27.46	15.84	30.84	170	89	P	V
	*	2437	105.15	-	-	92.69	27.46	15.84	30.84	170	89	A	V
		2484.95	53.38	-20.62	74	40.74	27.55	15.91	30.82	170	89	P	V
		2484.32	43.03	-10.97	54	30.39	27.55	15.91	30.82	170	89	A	V



802.11b CH 11 2462MHz	*	2462	114.14	-	-	101.59	27.5	15.88	30.83	191	32	P	H
	*	2462	111.08	-	-	98.53	27.5	15.88	30.83	191	32	A	H
		2483.52	54.74	-19.26	74	42.1	27.55	15.91	30.82	191	32	P	H
		2483.52	47.77	-6.23	54	35.13	27.55	15.91	30.82	191	32	A	H
	*	2462	108.13	-	-	95.58	27.5	15.88	30.83	217	72	P	V
	*	2462	104.89	-	-	92.34	27.5	15.88	30.83	217	72	A	V
		2484.44	54.05	-19.95	74	41.41	27.55	15.91	30.82	217	72	P	V
		2483.52	46.99	-7.01	54	34.35	27.55	15.91	30.82	217	72	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant. 1+2		(MHz)	(dBμV/m)	Limit (dB)	Line (dBμV/m)	Level (dBμV)	Factor (dB/m)	Loss (dB)	Factor (dB)	Pos (cm)	Pos (deg)	Avg. (P/A)	(H/V)
802.11b CH 12 2467MHz	*	2467	110.89	-	-	98.33	27.5	15.88	30.82	191	20	P	H
	*	2467	107.58	-	-	95.02	27.5	15.88	30.82	191	20	A	H
		2483.6	59.11	-14.89	74	46.47	27.55	15.91	30.82	191	20	P	H
		2484.32	52.75	-1.25	54	40.11	27.55	15.91	30.82	191	20	P	H
	*	2467	105.2	-	-	92.64	27.5	15.88	30.82	216	79	P	V
	*	2467	101.85	-	-	89.29	27.5	15.88	30.82	216	79	A	V
		2483.68	56.02	-17.98	74	43.38	27.55	15.91	30.82	216	79	P	V
		2483.52	47.35	-6.65	54	34.71	27.55	15.91	30.82	216	79	A	V
802.11b CH 13 2472MHz	*	2472	108.4	-	-	95.78	27.55	15.89	30.82	187	28	P	H
	*	2472	105.39	-	-	92.77	27.55	15.89	30.82	187	28	A	H
		2486.96	58.43	-15.57	74	45.79	27.55	15.91	30.82	187	28	P	H
		2486.84	52.55	-1.45	54	39.91	27.55	15.91	30.82	187	28	A	H
	*	2472	102.7	-	-	90.08	27.55	15.89	30.82	189	97	P	V
	*	2472	99.35	-	-	86.73	27.55	15.89	30.82	189	97	A	V
		2485.4	56.82	-17.18	74	44.18	27.55	15.91	30.82	189	97	P	V
		2485.76	50.8	-3.2	54	38.16	27.55	15.91	30.82	189	97	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.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
1+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11b CH 01 2412MHz		4824	56.34	-17.66	74	73.05	31.36	8.5	56.57	200	0	P	H
		4824	45.87	-8.13	54	62.58	31.36	8.5	56.57	200	0	A	H
		4824	54.08	-19.92	74	70.79	31.36	8.5	56.57	367	0	P	V
		4824	48.73	-5.27	54	65.44	31.36	8.5	56.57	367	0	A	V
802.11b CH 06 2437MHz		4874	58.78	-15.22	74	75.22	31.46	8.65	56.55	156	25	P	H
		4874	46.39	-7.61	54	62.83	31.46	8.65	56.55	156	25	A	H
		7311	55.41	-18.59	74	64.29	36.08	11.27	56.23	210	20	P	H
		7311	45.74	-8.26	54	54.62	36.08	11.27	56.23	210	20	A	H
		4874	59.27	-14.73	74	75.71	31.46	8.65	56.55	200	0	P	V
		4874	48.18	-5.82	54	64.62	31.46	8.65	56.55	200	0	A	V
		7311	52.17	-21.83	74	61.05	36.08	11.27	56.23	300	360	P	V
		7311	43.39	-10.61	54	52.27	36.08	11.27	56.23	300	360	A	V
802.11b CH 11 2462MHz		4924	57.07	-16.93	74	73.24	31.56	8.8	56.53	165	23	P	H
		4924	44.55	-9.45	54	60.72	31.56	8.8	56.53	165	23	A	H
		7386	55.25	-18.75	74	63.82	36.27	11.28	56.12	211	8	P	H
		7386	50.5	-3.5	54	59.07	36.27	11.28	56.12	211	8	A	H
		4924	56.41	-17.59	74	72.58	31.56	8.8	56.53	200	0	P	V
		4924	46.3	-7.7	54	62.47	31.56	8.8	56.53	200	0	A	V
		7386	51.72	-22.28	74	60.29	36.27	11.28	56.12	300	43	P	V
		7386	43.53	-10.47	54	52.1	36.27	11.28	56.12	300	43	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant. 1+2		(MHz)	(dBμV/m)	Limit (dB)	Line (dBμV/m)	Level (dBμV)	Factor (dB/m)	Loss (dB)	Factor (dB)	Pos (cm)	Pos (deg)	Avg. (P/A)	(H/V)
802.11b CH 12 2467MHz		4934	54.33	-19.67	74	70.47	31.56	8.83	56.53	127	0	P	H
		4934	50.07	-3.93	54	66.21	31.56	8.83	56.53	127	0	A	H
		7401	47.67	-26.33	74	56.18	36.31	11.28	56.1	100	0	P	H
		4934	54.42	-19.58	74	70.56	31.56	8.83	56.53	393	3	P	V
		4934	50.51	-3.49	54	66.65	31.56	8.83	56.53	393	3	A	V
		7401	51.07	-22.93	74	59.58	36.31	11.28	56.1	131	12	P	V
		7401	45.02	-8.98	54	53.53	36.31	11.28	56.1	131	12	A	V
802.11b CH 13 2472MHz		4944	52.18	-21.82	74	68.25	31.6	8.85	56.52	200	0	P	H
		4944	48.03	-5.97	54	64.1	31.6	8.85	56.52	200	0	A	H
		7416	44.03	-29.97	74	52.52	36.31	11.3	56.1	100	0	P	H
		4944	51.89	-22.11	74	67.96	31.6	8.85	56.52	360	0	P	V
		4944	47.55	-6.45	54	63.62	31.6	8.85	56.52	360	0	A	V
		7416	44.47	-29.53	74	52.96	36.31	11.3	56.1	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 Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11g CH 01 2412MHz		2390	60.95	-13.05	74	48.71	27.31	15.78	30.85	228	24	P	H
		2390	51.59	-2.41	54	39.35	27.31	15.78	30.85	228	24	A	H
	*	2412	111.29	-	-	98.97	27.36	15.81	30.85	228	24	P	H
	*	2412	103.85	-	-	91.53	27.36	15.81	30.85	228	24	A	H
		2390	61.85	-12.15	74	49.61	27.31	15.78	30.85	229	94	P	V
		2390	51.95	-2.05	54	39.71	27.31	15.78	30.85	229	94	A	V
	*	2412	108.22	-	-	95.9	27.36	15.81	30.85	229	94	P	V
	*	2412	101.31	-	-	88.99	27.36	15.81	30.85	229	94	A	V
802.11g CH 06 2437MHz		2388.96	54.14	-19.86	74	41.92	27.31	15.77	30.86	219	39	P	H
		2389.8	43.73	-10.27	54	31.5	27.31	15.77	30.85	219	39	A	H
	*	2437	113.34	-	-	100.88	27.46	15.84	30.84	219	39	P	H
	*	2437	105.7	-	-	93.24	27.46	15.84	30.84	219	39	A	H
		2486.77	54.22	-19.78	74	41.58	27.55	15.91	30.82	219	39	P	H
		2484.6	44.96	-9.04	54	32.32	27.55	15.91	30.82	219	39	A	H
		2357.04	53.42	-20.58	74	41.36	27.21	15.73	30.88	192	84	P	V
		2389.94	43.36	-10.64	54	31.13	27.31	15.77	30.85	192	84	A	V
	*	2437	108.01	-	-	95.55	27.46	15.84	30.84	192	84	P	V
	*	2437	101.27	-	-	88.81	27.46	15.84	30.84	192	84	A	V
		2496.5	53.75	-20.25	74	41.03	27.6	15.93	30.81	192	84	P	V
		2483.62	44.06	-9.94	54	31.42	27.55	15.91	30.82	192	84	A	V



802.11g CH 10 2457MHz		2320.92	53.01	-20.99	74	41.11	27.12	5.75	30.89	219	25	P	H
		2389.66	43.25	-10.75	54	31.03	27.31	5.85	30.86	219	25	A	H
	*	2457	112.53	-	-	99.99	27.5	5.95	30.83	219	25	P	H
	*	2457	105.26	-	-	92.72	27.5	5.95	30.83	219	25	A	H
		2483.69	61.29	-12.71	74	48.65	27.55	5.99	30.82	219	25	P	H
		2483.55	51.3	-2.7	54	38.66	27.55	5.99	30.82	219	25	A	H
		2312.24	52.87	-21.13	74	41.04	27.07	5.74	30.9	213	98	P	V
		2386.16	43.05	-10.95	54	30.83	27.31	5.85	30.86	213	98	A	V
	*	2457	108.58	-	-	96.04	27.5	5.95	30.83	213	98	P	V
	*	2457	101.62	-	-	89.08	27.5	5.95	30.83	213	98	A	V
		2483.69	58.5	-15.5	74	45.86	27.55	5.99	30.82	213	98	P	V
		2483.5	48.89	-5.11	54	36.25	27.55	5.99	30.82	213	98	A	V
802.11g CH 11 2462MHz	*	2462	109.77	-	-	97.22	27.5	15.88	30.83	209	25	P	H
	*	2462	103.02	-	-	90.47	27.5	15.88	30.83	209	25	A	H
		2483.64	61.85	-12.15	74	49.21	27.55	15.91	30.82	209	25	P	H
		2483.52	52.59	-1.41	54	39.95	27.55	15.91	30.82	209	25	P	H
	*	2462	105.72	-	-	93.17	27.5	15.88	30.83	218	83	P	V
	*	2462	99.23	-	-	86.68	27.5	15.88	30.83	218	83	A	V
		2484.6	56.62	-17.38	74	43.98	27.55	15.91	30.82	218	83	P	V
		2484.52	46.49	-7.51	54	33.85	27.55	15.91	30.82	218	83	A	V
Remark	1. No other spurious found.												
	2. All results are PASS against Peak and Average limit line.												



WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant. 1+2		(MHz)	(dBμV/m)	Limit (dB)	Line (dBμV/m)	Level (dBμV)	Factor (dB/m)	Loss (dB)	Factor (dB)	Pos (cm)	Pos (deg)	Avg. (P/A)	(H/V)
802.11g CH 12 2467MHz	*	2467	102.88	-	-	90.33	27.5	15.88	30.83	213	24	P	H
	*	2467	95.95	-	-	83.4	27.5	15.88	30.83	213	24	A	H
		2483.52	61.84	-12.16	74	49.2	27.55	15.91	30.82	213	24	P	H
		2483.52	52.67	-1.33	54	40.03	27.55	15.91	30.82	213	24	A	H
	*	2467	99.27	-	-	86.71	27.5	15.88	30.82	215	82	P	V
	*	2467	92.02	-	-	79.46	27.5	15.88	30.82	215	82	A	V
		2485.4	55.35	-18.65	74	42.71	27.55	15.91	30.82	215	82	P	V
		2484.92	45.09	-8.91	54	32.45	27.55	15.91	30.82	215	82	A	V
802.11g CH 13 2472MHz	*	2472	91.93	-	-	79.31	27.55	15.89	30.82	243	48	P	H
	*	2472	84.5	-	-	71.88	27.55	15.89	30.82	243	48	A	H
		2483.88	63	-11	74	50.36	27.55	15.91	30.82	243	48	P	H
		2483.5	53.25	-0.75	54	40.61	27.55	15.91	30.82	243	48	A	H
	*	2472	86.11	-	-	73.49	27.55	15.89	30.82	194	80	P	V
	*	2472	78.53	-	-	65.91	27.55	15.89	30.82	194	80	A	V
		2483.56	58.08	-15.92	74	45.44	27.55	15.91	30.82	194	80	P	V
		2483.56	49	-5	54	36.36	27.55	15.91	30.82	194	80	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	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant. 1+2		(MHz)	(dBμV/m)	Limit (dB)	Line (dBμV/m)	Level (dBμV)	Factor (dB/m)	Loss (dB)	Factor (dB)	Pos (cm)	Pos (deg)	Avg. (P/A)	(H/V)
802.11g CH 01 2412MHz		4824	53.17	-20.83	74	69.88	31.36	8.5	56.57	100	0	P	H
		4824	42	-12	54	58.71	31.36	8.5	56.57	100	0	A	H
		4824	54.97	-19.03	74	71.68	31.36	8.5	56.57	211	360	P	V
		4824	44.03	-9.97	54	60.74	31.36	8.5	56.57	211	360	A	V
802.11g CH 06 2437MHz		4874	56.89	-17.11	74	73.33	31.46	8.65	56.55	160	0	P	H
		4874	43.48	-10.52	54	59.92	31.46	8.65	56.55	160	0	A	H
		7311	48.51	-25.49	74	57.39	36.08	11.27	56.23	100	0	P	H
		4874	55.06	-18.94	74	71.5	31.46	8.65	56.55	200	0	P	V
		4874	43.41	-10.59	54	59.85	31.46	8.65	56.55	200	0	A	V
		7311	48.13	-25.87	74	57.01	36.08	11.27	56.23	100	0	P	V
802.11g CH 11 2462MHz		4924	48.37	-25.63	74	64.54	31.56	8.8	56.53	100	0	P	H
		7386	48.52	-25.48	74	57.09	36.27	11.28	56.12	100	0	P	H
		4924	49.62	-24.38	74	65.79	31.56	8.8	56.53	100	0	P	V
		7386	46.84	-27.16	74	55.41	36.27	11.28	56.12	100	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant. 1+2		(MHz)	(dBμV/m)	Limit (dB)	Line (dBμV/m)	Level (dBμV)	Factor (dB/m)	Loss (dB)	Factor (dB)	Pos (cm)	Pos (deg)	Avg. (P/A)	(H/V)
802.11g CH 12 2467MHz		4934	41.67	-32.33	74	57.81	31.56	8.83	56.53	100	0	P	H
		7401	42.99	-31.01	74	51.5	36.31	11.28	56.1	100	0	P	H
		4934	42.6	-31.4	74	58.74	31.56	8.83	56.53	100	0	P	V
		7401	43.55	-30.45	74	52.06	36.31	11.28	56.1	100	0	P	V
802.11g CH 13 2472MHz		4944	39.7	-34.3	74	55.77	31.6	8.85	56.52	100	0	P	H
		7416	42.72	-31.28	74	51.21	36.31	11.3	56.1	100	0	P	H
		4944	38.05	-35.95	74	54.12	31.6	8.85	56.52	100	0	P	V
		7416	42.83	-31.17	74	51.32	36.31	11.3	56.1	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 Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 01 2412MHz		2389.695	62.52	-11.48	74	50.3	27.31	15.77	30.86	196	22	P	H
		2390	52.64	-1.36	54	40.4	27.31	15.78	30.85	196	22	A	H
	*	2412	109.41	-	-	97.09	27.36	15.81	30.85	196	22	P	H
	*	2412	102.13	-	-	89.81	27.36	15.81	30.85	196	22	A	H
		2389.8	57.52	-16.48	74	45.29	27.31	15.77	30.85	228	74	P	V
		2390	48.91	-5.09	54	36.67	27.31	15.78	30.85	228	74	A	V
	*	2412	105.62	-	-	93.3	27.36	15.81	30.85	228	74	P	V
	*	2412	97.93	-	-	85.61	27.36	15.81	30.85	228	74	A	V
802.11n HT20 CH 06 2437MHz		2349.06	52.94	-21.06	74	40.94	27.17	15.71	30.88	223	22	P	H
		2389.52	43.68	-10.32	54	31.46	27.31	15.77	30.86	223	22	A	H
	*	2437	112.53	-	-	100.07	27.46	15.84	30.84	223	22	P	H
	*	2437	104.96	-	-	92.5	27.46	15.84	30.84	223	22	A	H
		2487.33	53.58	-20.42	74	40.94	27.55	15.91	30.82	223	22	P	H
		2484.11	44.72	-9.28	54	32.08	27.55	15.91	30.82	223	22	A	H
		2325.68	53.06	-20.94	74	41.15	27.12	15.68	30.89	192	87	P	V
		2384.2	43.4	-10.6	54	31.23	27.26	15.77	30.86	192	87	A	V
	*	2437	107.77	-	-	95.31	27.46	15.84	30.84	192	87	P	V
	*	2437	100.39	-	-	87.93	27.46	15.84	30.84	192	87	A	V
		2495.38	53.33	-20.67	74	40.62	27.6	15.92	30.81	192	87	P	V
		2483.69	44.1	-9.9	54	31.46	27.55	15.91	30.82	192	87	A	V



802.11n HT20 CH 10 2457MHz		2358.02	52.79	-21.21	74	40.73	27.21	5.81	30.88	239	31	P	H
		2388.26	43.26	-10.74	54	31.04	27.31	5.85	30.86	239	31	A	H
	*	2457	112.57	-	-	100.03	27.5	5.95	30.83	239	31	P	H
	*	2457	105.6	-	-	93.06	27.5	5.95	30.83	239	31	A	H
		2483.5	63.54	-10.46	74	50.9	27.55	5.99	30.82	239	31	P	H
		2483.5	52.21	-1.79	54	39.57	27.55	5.99	30.82	239	31	A	H
		2353.12	53.09	-20.91	74	41.04	27.21	5.8	30.88	212	98	P	V
		2374.96	43.18	-10.82	54	31.03	27.26	5.83	30.86	212	98	A	V
	*	2457	107.81	-	-	95.27	27.5	5.95	30.83	212	98	P	V
	*	2457	99.98	-	-	87.44	27.5	5.95	30.83	212	98	A	V
		2483.83	57.09	-16.91	74	44.45	27.55	5.99	30.82	212	98	P	V
		2483.55	46.71	-7.29	54	34.07	27.55	5.99	30.82	212	98	A	V
802.11n HT20 CH 11 2462MHz	*	2462	109.91	-	-	97.36	27.5	15.88	30.83	211	33	P	H
	*	2462	102.34	-	-	89.79	27.5	15.88	30.83	211	33	A	H
		2483.68	61.81	-12.19	74	49.17	27.55	15.91	30.82	211	33	P	H
		2483.52	51.96	-2.04	54	39.32	27.55	15.91	30.82	211	33	P	H
	*	2462	103.89	-	-	91.34	27.5	15.88	30.83	214	81	P	V
	*	2462	96.31	-	-	83.76	27.5	15.88	30.83	214	81	A	V
		2483.56	54.07	-19.93	74	41.43	27.55	15.91	30.82	214	81	P	V
		2483.64	44.83	-9.17	54	32.19	27.55	15.91	30.82	214	81	A	V
Remark	1. No other spurious found.												
	2. All results are PASS against Peak and Average limit line.												



WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant. 1+2		(MHz)	(dBμV/m)	Limit (dB)	Line (dBμV/m)	Level (dBμV)	Factor (dB/m)	Loss (dB)	Factor (dB)	Pos (cm)	Pos (deg)	Avg. (P/A)	(H/V)
802.11n HT20 CH 12 2467MHz	*	2467	104.44	-	-	91.88	27.5	15.88	30.82	212	26	P	H
	*	2467	96.94	-	-	84.38	27.5	15.88	30.82	212	26	A	H
		2483.84	63.22	-10.78	74	50.58	27.55	15.91	30.82	212	26	P	H
		2483.52	52.89	-1.11	54	40.25	27.55	15.91	30.82	212	26	A	H
	*	2467	100.21	-	-	87.66	27.5	15.88	30.83	215	80	P	V
	*	2467	92.39	-	-	79.84	27.5	15.88	30.83	215	80	A	V
		2483.92	58.84	-15.16	74	46.2	27.55	15.91	30.82	215	80	P	V
		2483.52	49.55	-4.45	54	36.91	27.55	15.91	30.82	215	80	A	V
802.11n HT20 CH 13 2472MHz	*	2472	94.43	-	-	81.81	27.55	15.89	30.82	211	22	P	H
	*	2472	87.15	-	-	74.53	27.55	15.89	30.82	211	22	A	H
		2483.6	64.01	-9.99	74	51.37	27.55	15.91	30.82	211	22	P	H
		2483.52	51.56	-2.44	54	38.92	27.55	15.91	30.82	211	22	A	H
	*	2472	90.96	-	-	78.34	27.55	15.89	30.82	213	88	P	V
	*	2472	82.86	-	-	70.24	27.55	15.89	30.82	213	88	A	V
		2483.76	61.85	-12.15	74	49.21	27.55	15.91	30.82	213	88	P	V
		2483.56	50.91	-3.09	54	38.27	27.55	15.91	30.82	213	88	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 Ant.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
1+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11n HT20 CH 01 2412MHz		4824	48.21	-25.79	74	64.92	31.36	8.5	56.57	100	0	P	H
		4824	48.71	-25.29	74	65.42	31.36	8.5	56.57	100	0	P	V
802.11n HT20 CH 06 2437MHz		4874	54.11	-19.89	74	70.55	31.46	8.65	56.55	183	0	P	H
		4874	43.26	-10.74	54	59.7	31.46	8.65	56.55	183	0	A	H
		7311	50.84	-23.16	74	59.72	36.08	11.27	56.23	237	12	P	H
		7311	43.92	-10.08	54	52.8	36.08	11.27	56.23	237	12	A	H
		4874	56.37	-17.63	74	72.81	31.46	8.65	56.55	233	1	P	V
		4874	44.45	-9.55	54	60.89	31.46	8.65	56.55	233	1	A	V
		7302	53.28	-20.72	74	62.16	36.08	11.27	56.23	160	360	P	V
		7302	41.45	-12.55	54	50.33	36.08	11.27	56.23	160	360	A	V
802.11n HT20 CH 11 2462MHz		4924	47.36	-26.64	74	63.53	31.56	8.8	56.53	100	0	P	H
		7386	45.65	-28.35	74	54.22	36.27	11.28	56.12	100	0	P	H
		4924	45.34	-28.66	74	61.51	31.56	8.8	56.53	100	0	P	V
		7386	42.93	-31.07	74	51.5	36.27	11.28	56.12	100	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant. 1+2		(MHz)	(dBμV/m)	Limit (dB)	Line (dBμV/m)	Level (dBμV)	Factor (dB/m)	Loss (dB)	Factor (dB)	Pos (cm)	Pos (deg)	Avg. (P/A)	(H/V)
802.11n		4934	47.39	-26.61	74	63.53	31.56	8.83	56.53	100	0	P	H
HT20		7401	43.32	-30.68	74	51.83	36.31	11.28	56.1	100	0	P	H
CH 12		4934	43.28	-30.72	74	59.42	31.56	8.83	56.53	100	0	P	V
2467MHz		7401	43.63	-30.37	74	52.14	36.31	11.28	56.1	100	0	P	V
802.11n		4944	37.73	-36.27	74	53.8	31.6	8.85	56.52	100	0	P	H
HT20		7416	42.8	-31.2	74	51.29	36.31	11.3	56.1	100	0	P	H
CH 13		4944	38.38	-35.62	74	54.45	31.6	8.85	56.52	100	0	P	V
2472MHz		7416	43.6	-30.4	74	52.09	36.31	11.3	56.1	100	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

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

WIFI Ant. 1+2	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)
2.4GHz 802.11g LF		72.93	28.44	-11.56	40	47.23	12.69	1.04	32.6	-	-	P	H
		170.13	32.72	-10.78	43.5	47.75	15.75	1.57	32.55	-	-	P	H
		207.93	29.1	-14.4	43.5	44.24	15.52	1.73	32.54	-	-	P	H
		673.8	38.46	-7.54	46	41.28	26.51	3.05	32.51	100	0	P	H
		867	32.05	-13.95	46	31.07	29.17	3.47	31.87	-	-	P	H
		932.8	32.48	-13.52	46	29.6	30.48	3.6	31.42	-	-	P	H
		39.45	29.37	-10.63	40	41.43	19.79	0.78	32.64	-	-	P	V
		72.93	29.14	-10.86	40	47.93	12.69	1.04	32.6	-	-	P	V
		172.29	28.24	-15.26	43.5	43.41	15.6	1.58	32.55	-	-	P	V
		673.8	37.41	-8.59	46	40.23	26.51	3.05	32.51	100	0	P	V
		895.7	35.34	-10.66	46	33.99	29.35	3.51	31.72	-	-	P	V
		976.9	33.4	-20.6	54	29.84	30.65	3.69	31.05	-	-	P	V
Remark	1. No other spurious found. 2. All results are PASS against limit line.												



<For WPC Charging Mode>

2.4GHz 2400~2483.5MHz

WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11n HT20 CH 12 2467MHz		2367.024	52.8	-21.2	74	40.71	27.21	5.82	30.86	119	40	P	H
		2385.978	43.02	-10.98	54	30.8	27.31	5.85	30.86	119	40	A	H
	*	2467	104.09	-	-	91.53	27.5	5.96	30.82	119	40	P	H
	*	2467	95.74	-	-	83.18	27.5	5.96	30.82	119	40	A	H
		2483.544	62.77	-11.23	74	50.13	27.55	5.99	30.82	119	40	P	H
		2483.544	52.74	-1.26	54	40.1	27.55	5.99	30.82	119	40	A	H
		2361.354	52.45	-21.55	74	40.39	27.21	5.81	30.88	391	96	P	V
		2380.632	42.82	-11.18	54	30.66	27.26	5.84	30.86	391	96	A	V
	*	2467	99.53	-	-	86.97	27.5	5.96	30.82	391	96	P	V
	*	2467	91.28	-	-	78.72	27.5	5.96	30.82	391	96	A	V
		2483.544	59.9	-14.1	74	47.26	27.55	5.99	30.82	391	96	P	V
		2483.544	49.72	-4.28	54	37.08	27.55	5.99	30.82	391	96	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



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

WIFI Ant.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
1+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11n HT20 CH 12 2467MHz		4934	43.19	-30.81	74	59.33	31.56	8.37	56.53	100	0	P	H
		7401	44.33	-29.67	74	52.84	36.31	10.85	56.1	100	0	P	H
		4934	40.44	-33.56	74	56.58	31.56	8.37	56.53	100	0	P	V
		7401	43.54	-30.46	74	52.05	36.31	10.85	56.1	100	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Emission below 1GHz

2.4GHz WIFI 802.11n HT20 (LF)

WIFI Ant.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
1+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
2.4GHz 802.11n HT20 LF		32.16	22.38	-17.62	40	30.97	23.37	0.69	32.65	-	-	P	H
		171.75	33.32	-10.18	43.5	48.47	15.63	1.57	32.55	100	0	P	H
		208.74	29.62	-13.88	43.5	44.71	15.57	1.73	32.54	-	-	P	H
		629.7	28.64	-17.36	46	31.64	26.43	2.96	32.55	-	-	P	H
		820.1	31.05	-14.95	46	31.17	28.43	3.38	32.12	-	-	P	H
		951.7	33.72	-12.28	46	30.06	31.03	3.64	31.26	-	-	P	H
		39.18	32.61	-7.39	40	44.53	19.93	0.78	32.64	100	0	P	V
		72.66	26.43	-13.57	40	45.24	12.67	1.04	32.6	-	-	P	V
		206.31	27.44	-16.06	43.5	42.69	15.42	1.72	32.54	-	-	P	V
		552	28.62	-17.38	46	32.45	25.77	2.77	32.56	-	-	P	V
		838.3	31.22	-14.78	46	30.42	29.22	3.42	32.02	-	-	P	V
		939.8	32.75	-13.25	46	29.44	30.82	3.62	31.36	-	-	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	P eak or A verage
H/V	H orizontal or V ertical

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

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1+2		(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

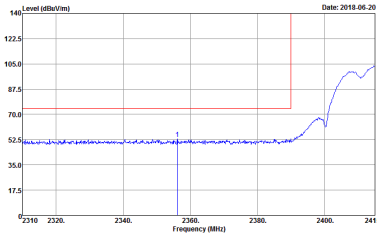
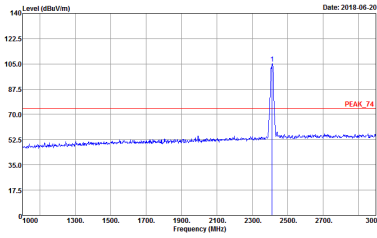
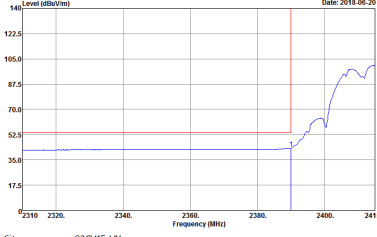
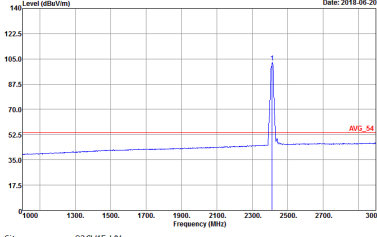
Test Engineer :	Bill Chang, Karl Hou, and Lance Chiang	Temperature :	22~25°C
		Relative Humidity :	52~57%

Note symbol

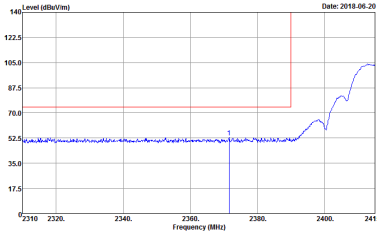
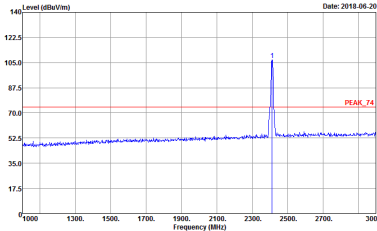
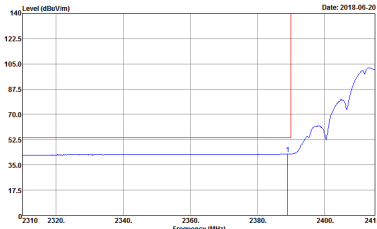
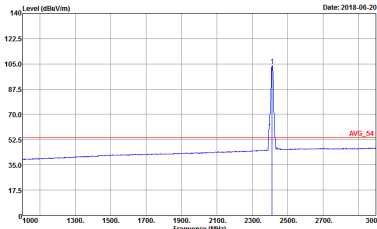
-L	Low channel location
-R	High channel location



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

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH01 2412MHz	
1+2	Horizontal	Fundamental
Peak	 Site Condition : 03CH15-HY : PEAK_BE_74 3m 91200_15_1620 HORIZONTAL : RBW:1000.0000Hz VBW:3000.0000Hz SWT:Auto	 Site Condition : 03CH15-HY : PEAK_74 3m 91200_15_1620 HORIZONTAL : RBW:1000.0000Hz VBW:3000.0000Hz SWT:Auto
Avg.	 Site Condition : 03CH15-HY : AVG_BE_54 3m 91200_15_1620 HORIZONTAL : RBW:1000.0000Hz VBW:0.0100Hz SWT:Auto	 Site Condition : 03CH15-HY : AVG_54 3m 91200_15_1620 HORIZONTAL : RBW:1000.0000Hz VBW:0.0100Hz SWT:Auto

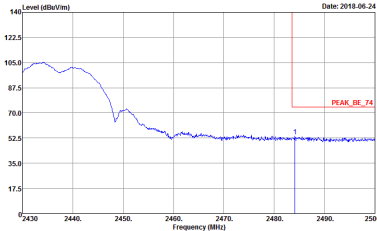
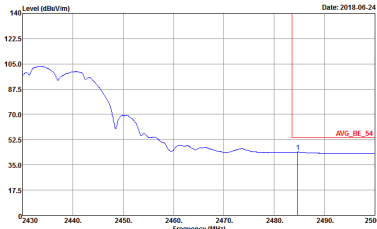


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH01 2412MHz	
1+2	Vertical	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_15_1620 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_15_1620 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto	 Site : 03CH15-HY Condition : AVG_54 3m 91200_15_1620 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto

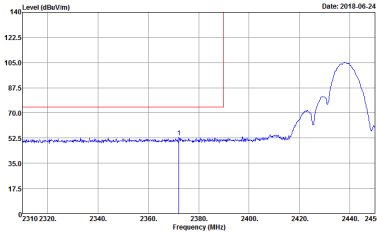
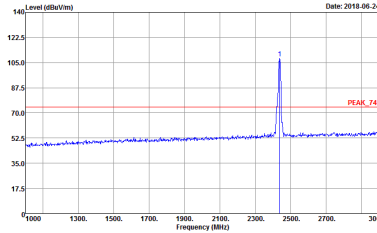
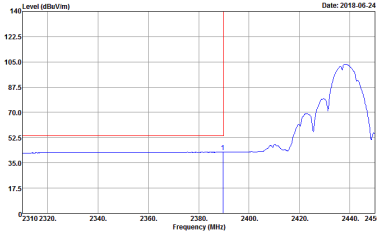
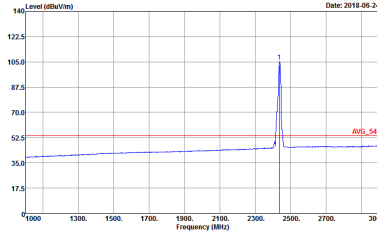


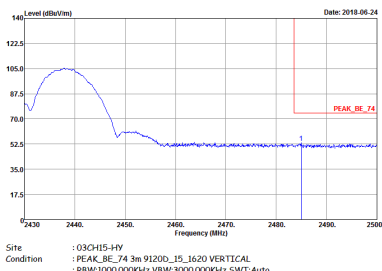
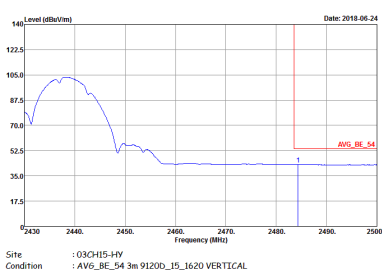
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH06 2437MHz - L	
1+2	Horizontal	Fundamental
Peak	Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto	Site : 03CH15-HY Condition : AVG_54 3m 91200_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto

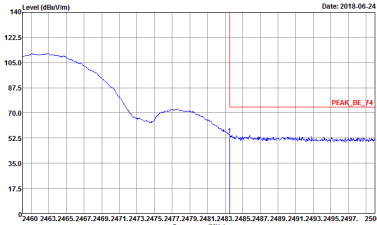
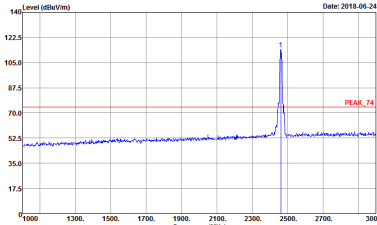
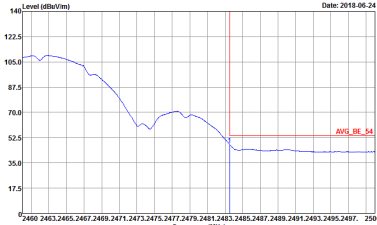
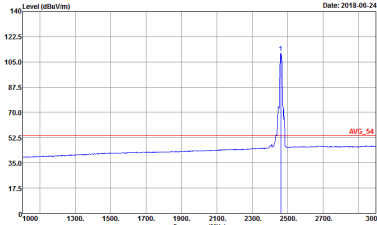


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH06 2437MHz - R	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank
Avg.	 Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto	Left blank

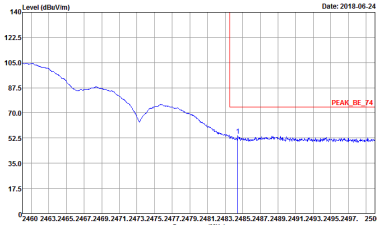
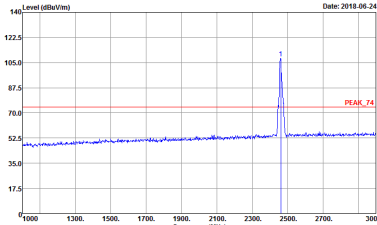
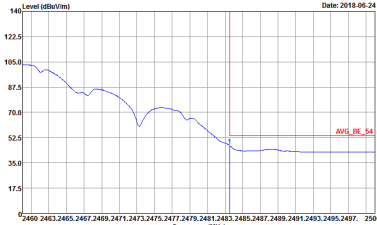
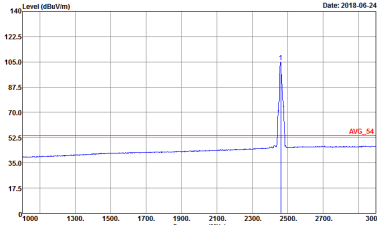


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH06 2437MHz - L	
1+2	Vertical	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_15_1620 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_15_1620 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto	 Site : 03CH15-HY Condition : AVG_54 3m 91200_15_1620 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto

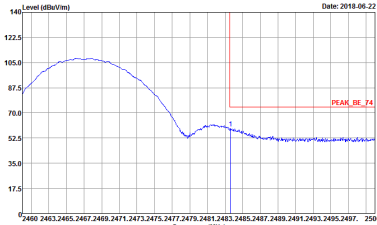
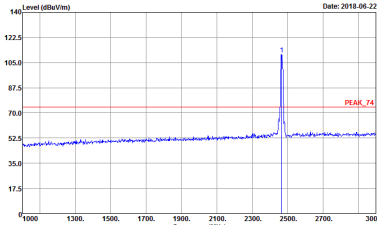
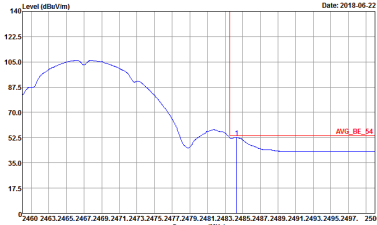
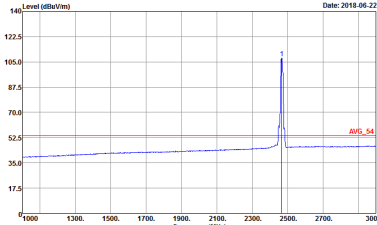
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH06 2437MHz - R	
1+2	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH11 2462MHz	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto	 Site : 03CH15-HY Condition : AVG_54 3m 91200_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto



WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH11 2462MHz	
1+2	Vertical	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_15_1620 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_15_1620 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto	 Site : 03CH15-HY Condition : AVG_54 3m 91200_15_1620 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto

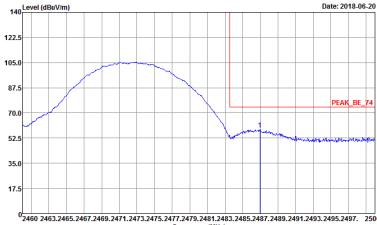
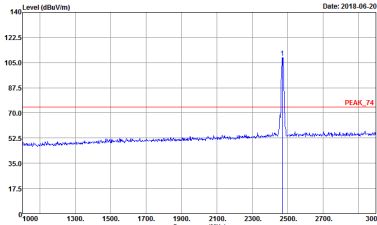
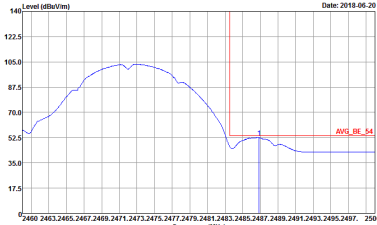
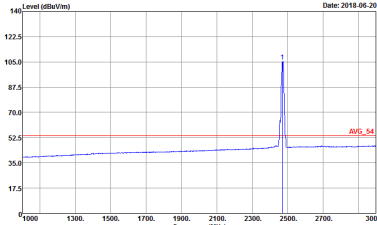


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH12 2467MHz	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto	 Site : 03CH15-HY Condition : AVG_54 3m 91200_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto

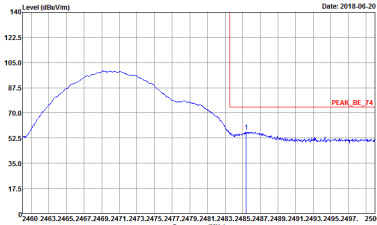
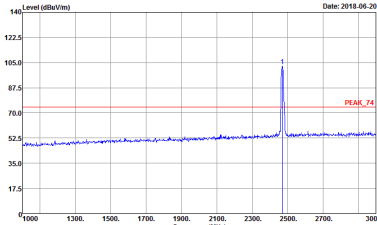
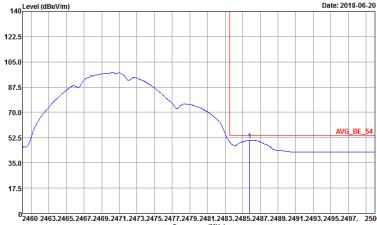
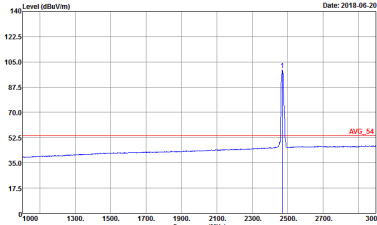


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH12 2467MHz	
1+2	Vertical	Fundamental
Peak	Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_15_1620 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_15_1620 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto	Site : 03CH15-HY Condition : AVG_54 3m 91200_15_1620 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto



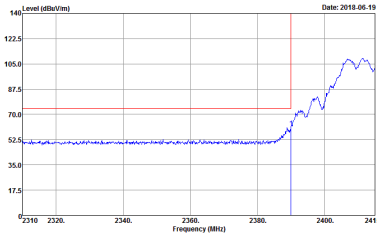
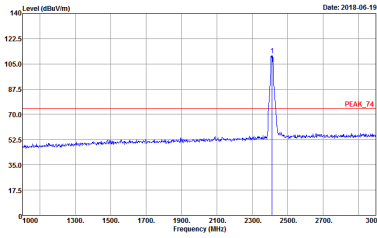
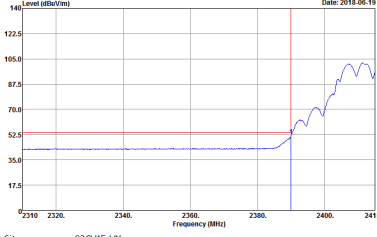
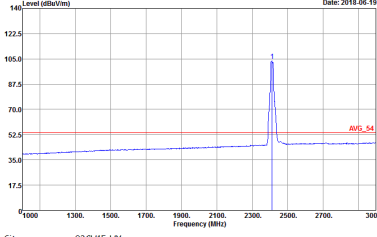
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH13 2472MHz	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto	 Site : 03CH15-HY Condition : AVG_54 3m 91200_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto



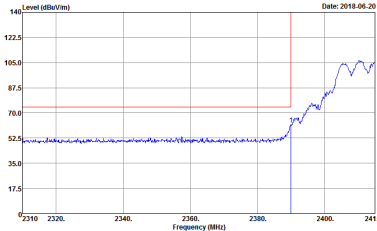
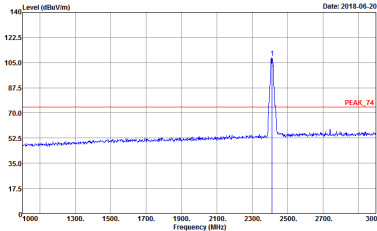
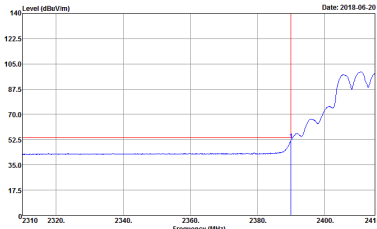
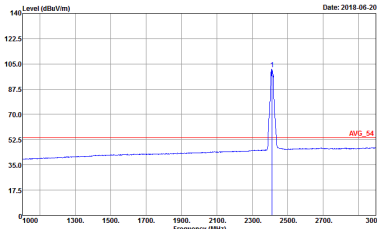
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH13 2472MHz	
1+2	Vertical	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_15_1620 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_15_1620 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto	 Site : 03CH15-HY Condition : AVG_54 3m 91200_15_1620 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto



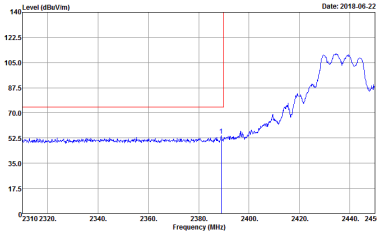
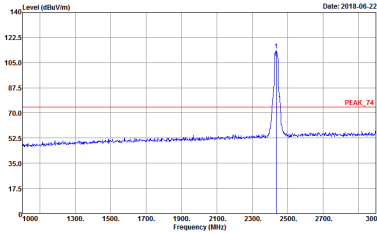
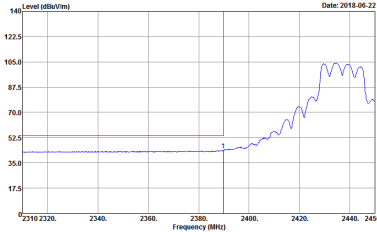
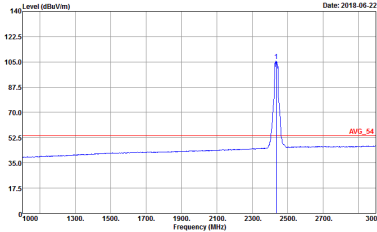
2.4GHz 2400~2483.5MHz
WIFI 802.11g (Band Edge @ 3m)

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH01 2412MHz	
1+2	Horizontal	Fundamental
Peak	 Site Condition : 03CH15-HY : PEAK_BE_74 3m 91200_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site Condition : 03CH15-HY : PEAK_74 3m 91200_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site Condition : 03CH15-HY : AVG_BE_54 3m 91200_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto	 Site Condition : 03CH15-HY : AVG_54 3m 91200_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto

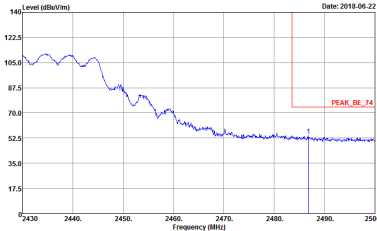
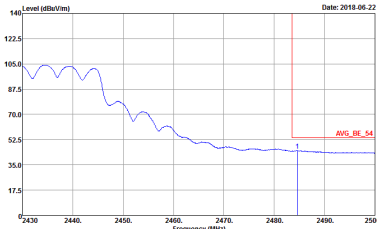


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH01 2412MHz	
1+2	Vertical	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_15_1620 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_15_1620 VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto	 Site : 03CH15-HY Condition : AVG_54 3m 91200_15_1620 VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto

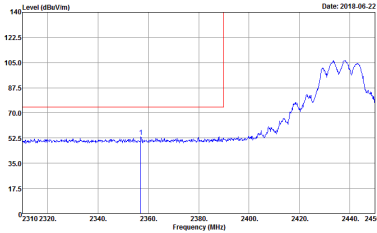
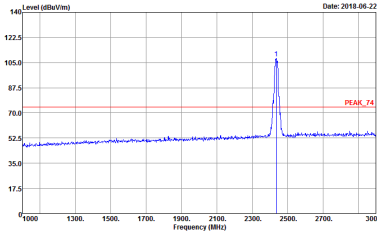
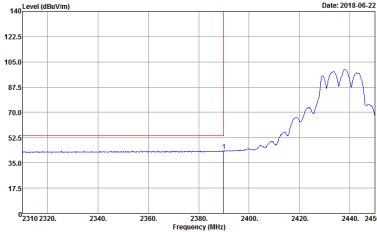
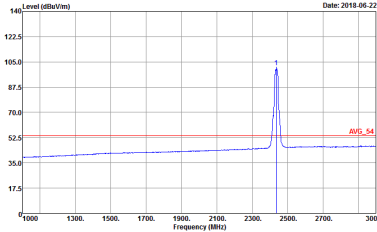


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH06 2437MHz - L	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH15-HY Condition : AV6_BE_54 3m 91200_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto	 Site : 03CH15-HY Condition : AV6_54 3m 91200_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto

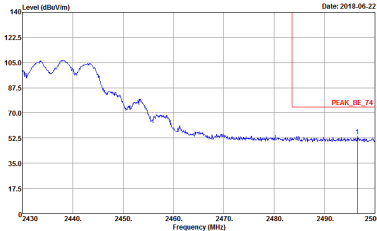
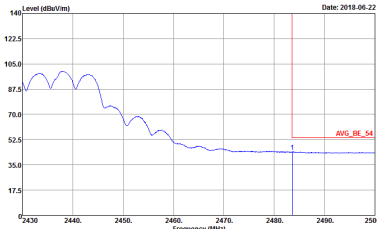


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH06 2437MHz - R	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank
Avg.	 Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto	Left blank

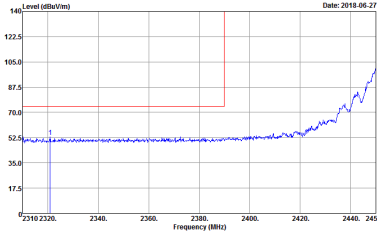
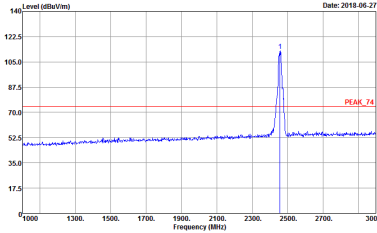
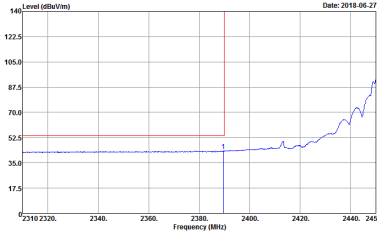
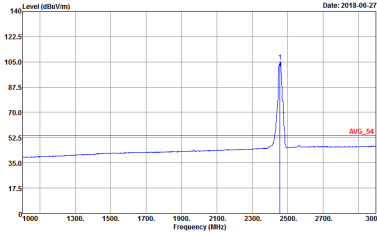


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH06 2437MHz - L	
1+2	Vertical	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_15_1620 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_15_1620 VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto	 Site : 03CH15-HY Condition : AVG_54 3m 91200_15_1620 VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto

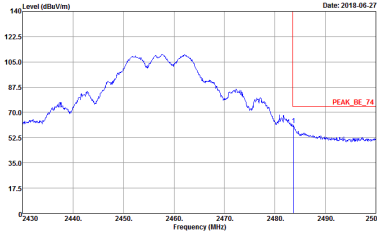
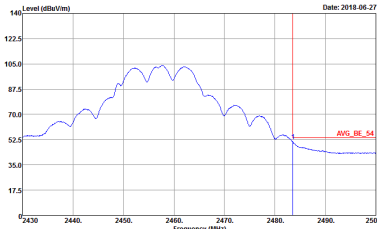


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH06 2437MHz - R	
1+2	Vertical	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_15_1620 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left Blank
Avg.	 Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_15_1620 VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto	Left Blank

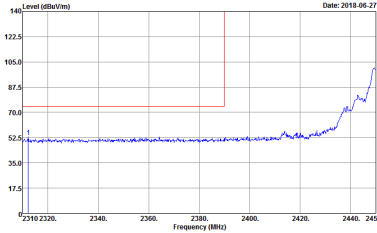
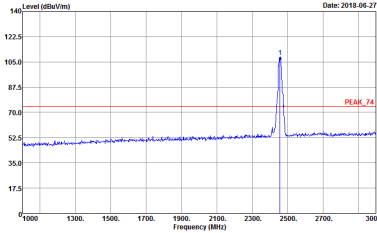
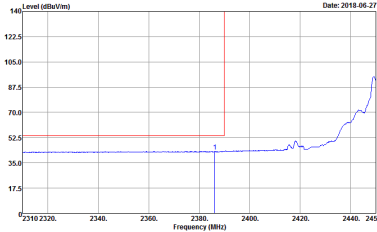
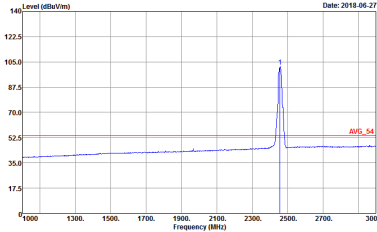


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH10 2457MHz - L	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto	 Site : 03CH15-HY Condition : AVG_54 3m 91200_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto

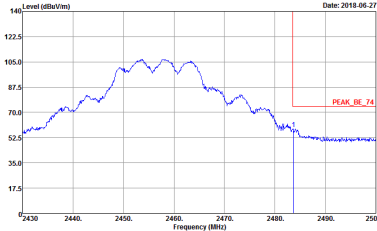
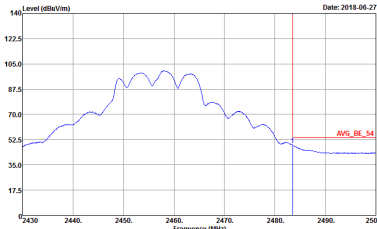


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH10 2457MHz - R	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left Blank
Avg.	 Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto	Left Blank



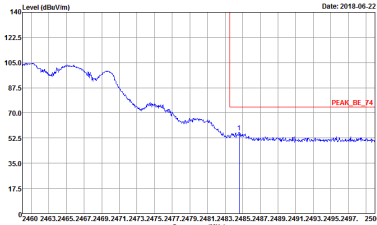
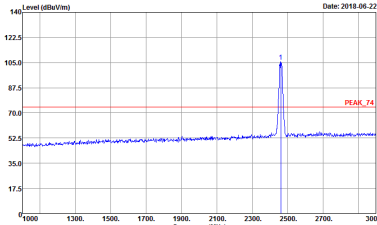
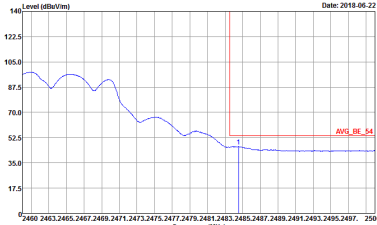
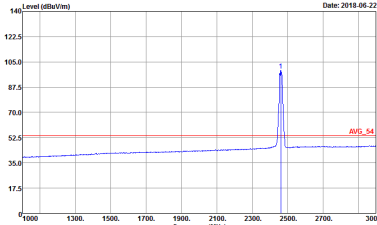
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH10 2457MHz - L	
1+2	Vertical	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_15_1620 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_15_1620 VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto	 Site : 03CH15-HY Condition : AVG_54 3m 91200_15_1620 VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto



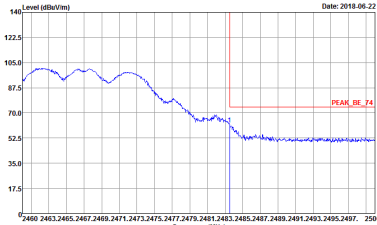
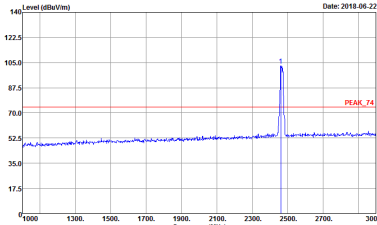
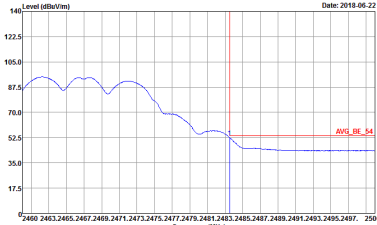
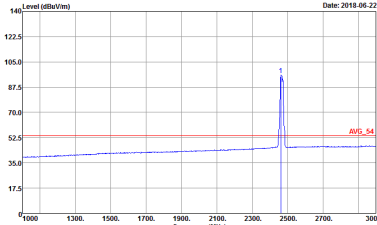
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH10 2457MHz - R	
1+2	Vertical	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_15_1620 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left Blank
Avg.	 Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_15_1620 VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto	Left Blank



WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH11 2462MHz	
1+2	Horizontal	Fundamental
Peak	Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto	Site : 03CH15-HY Condition : AVG_54 3m 91200_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH11 2462MHz	
1+2	Vertical	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_15_1620 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_15_1620 VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto	 Site : 03CH15-HY Condition : AVG_54 3m 91200_15_1620 VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto

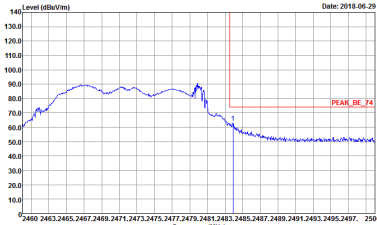
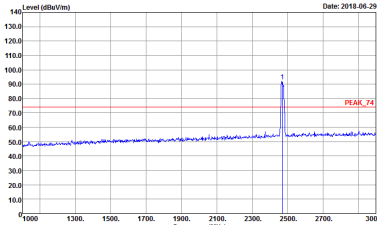
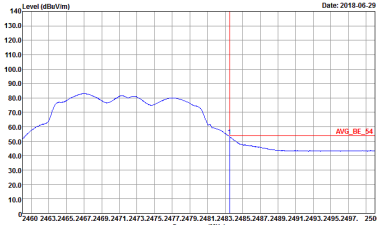
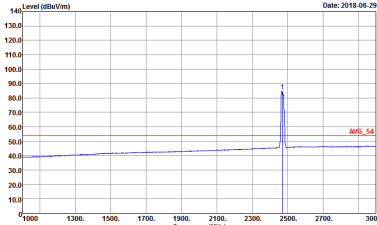


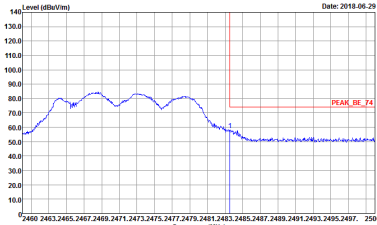
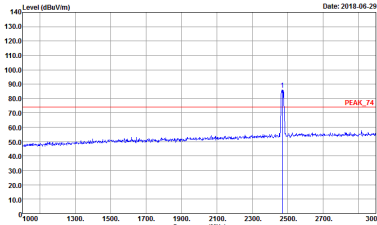
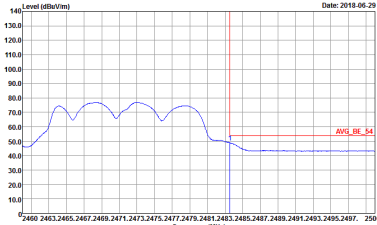
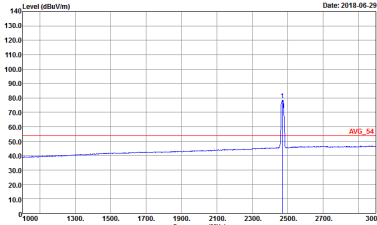
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH12 2467MHz	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto	 Site : 03CH15-HY Condition : AVG_54 3m 91200_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto



WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH12 2467MHz	
1+2	Vertical	Fundamental
Peak	Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_15_1620 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_15_1620 VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto	Site : 03CH15-HY Condition : AVG_54 3m 91200_15_1620 VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto



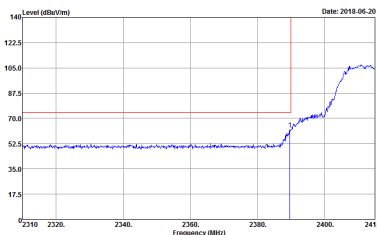
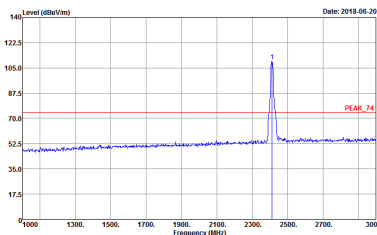
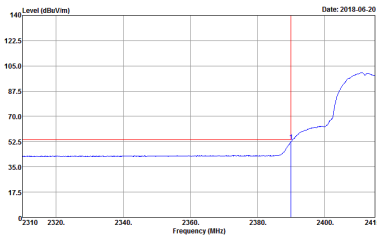
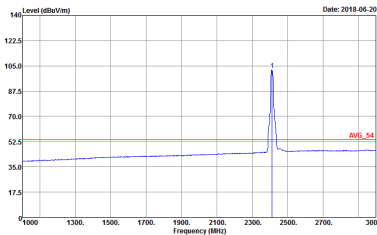
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH13 2472MHz	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE_74 3m 9120D_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH15-HY Condition : PEAK_74 3m 9120D_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH15-HY Condition : AVG_BE_54 3m 9120D_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:1000KHz SWT:Auto	 Site : 03CH15-HY Condition : AVG_54 3m 9120D_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:1000KHz SWT:Auto

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH13 2472MHz	
1+2	Vertical	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE_74 3m 9120D_15_1620 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH15-HY Condition : PEAK_74 3m 9120D_15_1620 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH15-HY Condition : AVG_BE_54 3m 9120D_15_1620 VERTICAL : RBW:1000.000KHz VBW:1000KHz SWT:Auto	 Site : 03CH15-HY Condition : AVG_54 3m 9120D_15_1620 VERTICAL : RBW:1000.000KHz VBW:1000KHz SWT:Auto

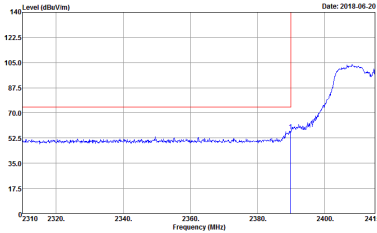
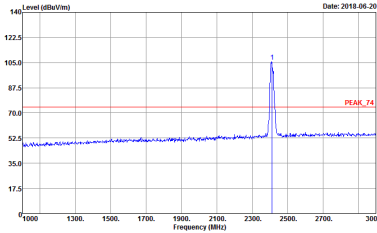
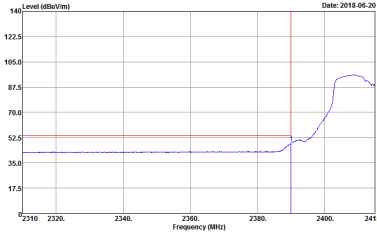
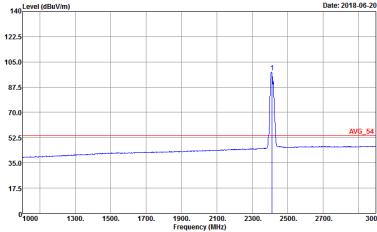


2.4GHz 2400~2483.5MHz

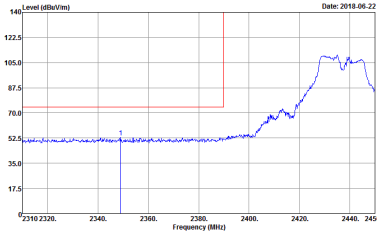
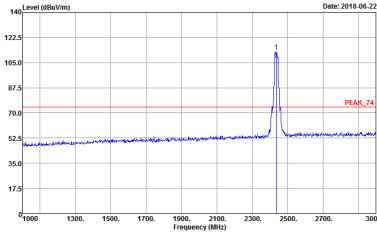
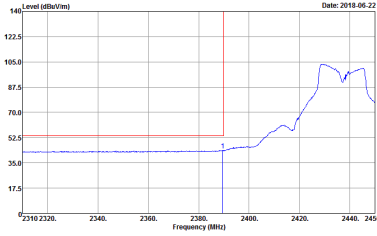
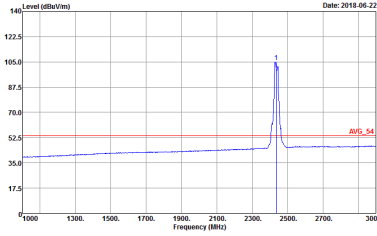
WIFI 802.11n HT20 (Band Edge @ 3m)

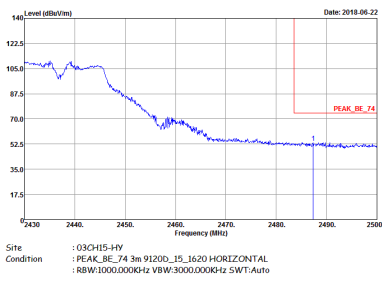
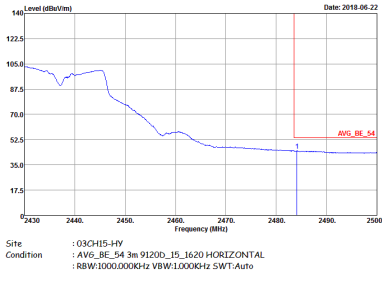
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH01 2412MHz	
1+2	Horizontal	Fundamental
Peak	 Site Condition : 03CH15-HY : PEAK_BE_74 3m 91200_15_1620 HORIZONTAL : RBW:1000.0000Hz VBW:3000.0000Hz SWT:Auto	 Site Condition : 03CH15-HY : PEAK_74 3m 91200_15_1620 HORIZONTAL : RBW:1000.0000Hz VBW:3000.0000Hz SWT:Auto
Avg.	 Site Condition : 03CH15-HY : AVG_BE_54 3m 91200_15_1620 HORIZONTAL : RBW:1000.0000Hz VBW:1.0000Hz SWT:Auto	 Site Condition : 03CH15-HY : AVG_54 3m 91200_15_1620 HORIZONTAL : RBW:1000.0000Hz VBW:1.0000Hz SWT:Auto



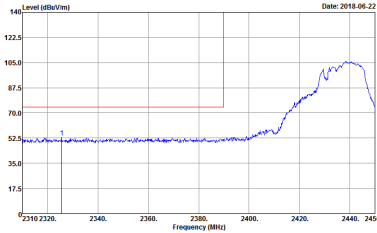
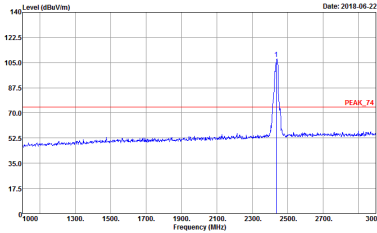
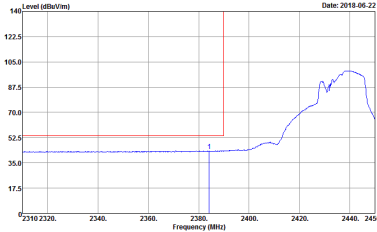
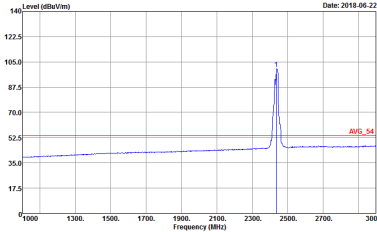
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH01 2412MHz	
1+2	Vertical	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_15_1620 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_15_1620 VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto	 Site : 03CH15-HY Condition : AVG_54 3m 91200_15_1620 VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto



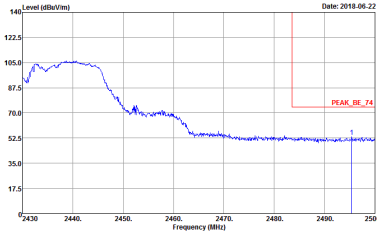
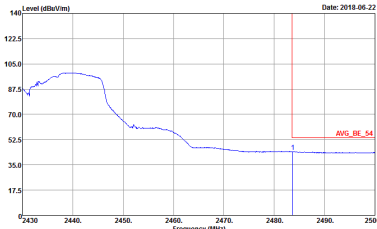
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH06 2437MHz - L	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto	 Site : 03CH15-HY Condition : AVG_54 3m 91200_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH06 2437MHz - R	
1+2	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

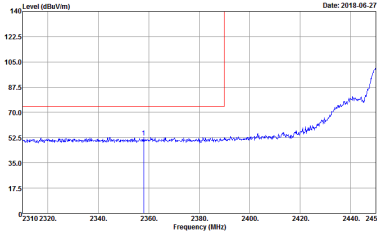
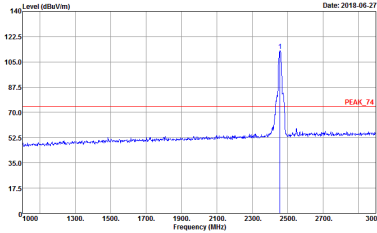
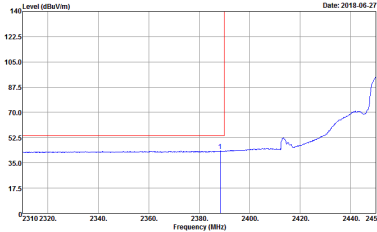
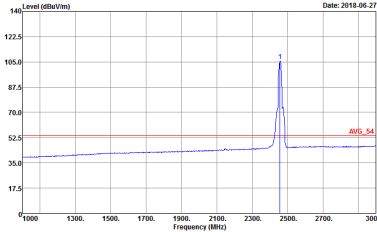


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH06 2437MHz - L	
1+2	Vertical	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_15_1620 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_15_1620 VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto	 Site : 03CH15-HY Condition : AVG_54 3m 91200_15_1620 VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto

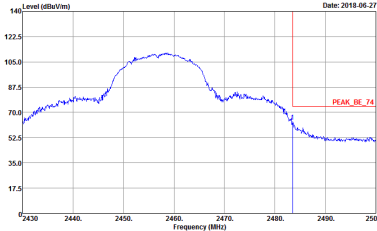
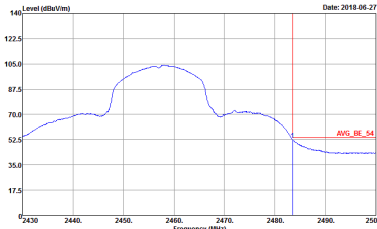


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH06 2437MHz - R	
1+2	Vertical	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_15_1620 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left Blank
Avg.	 Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_15_1620 VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto	Left Blank

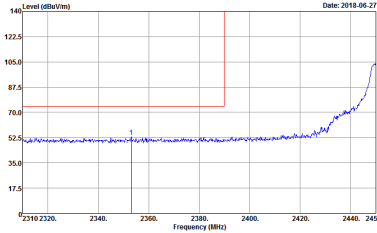
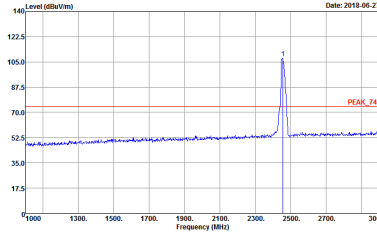
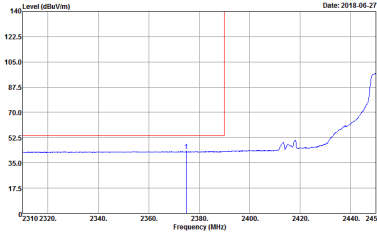
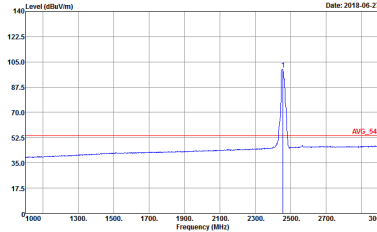


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH10 2457MHz - L	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto	 Site : 03CH15-HY Condition : AVG_54 3m 91200_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto

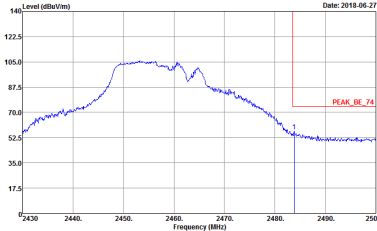
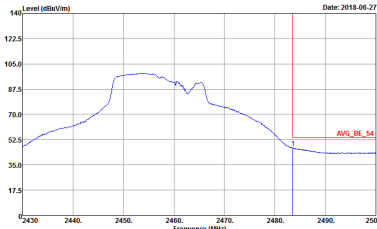


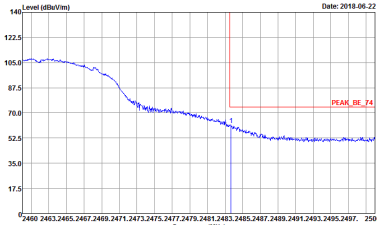
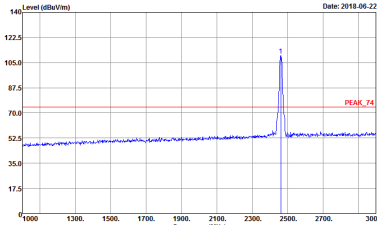
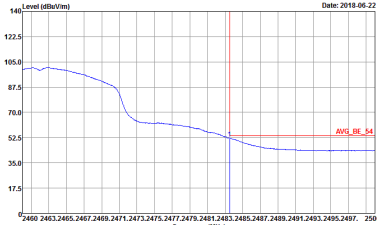
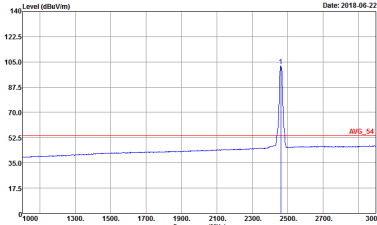
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH10 2457MHz - R	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left Blank
Avg.	 Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto	Left Blank



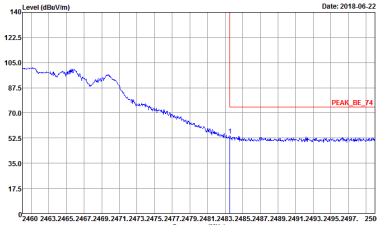
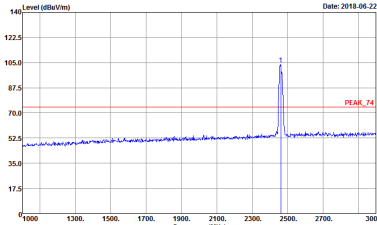
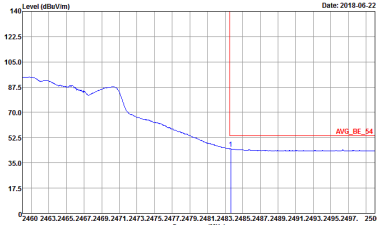
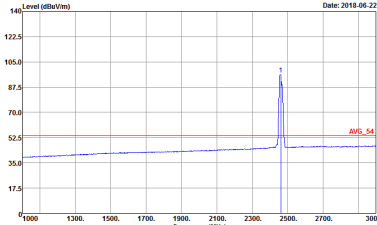
WIFI	2.4GHz 2400~2483.5MHz Fundamental @ 3m	
ANT	802.11n HT20 CH10 2457MHz - L	
1+2	Vertical	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_15_1620 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH15-HY Condition : AV6_BE_54 3m 91200_15_1620 VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto	 Site : 03CH15-HY Condition : AV6_54 3m 91200_15_1620 VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto



WIFI	2.4GHz 2400~2483.5MHz Fundamental @ 3m	
ANT	802.11n HT20 CH10 2457MHz - R	
1+2	Vertical	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_15_1620 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz S.WT:Auto	Left Blank
Avg.	 Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_15_1620 VERTICAL : RBW:1000.000KHz VBW:1000KHz S.WT:Auto	Left Blank

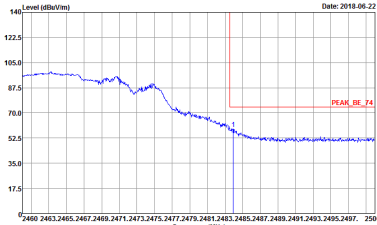
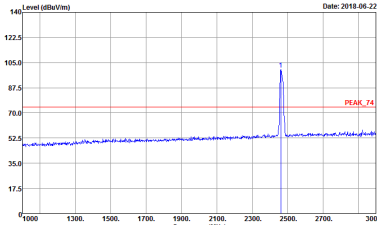
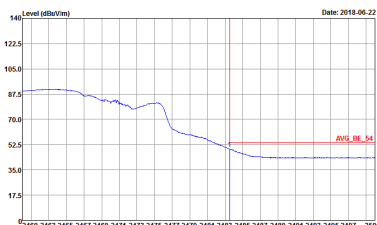
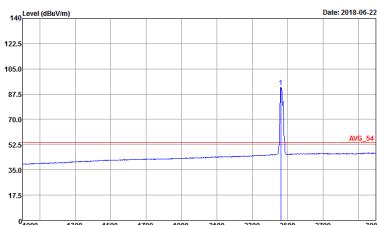
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH11 2462MHz	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto	 Site : 03CH15-HY Condition : AVG_54 3m 91200_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto



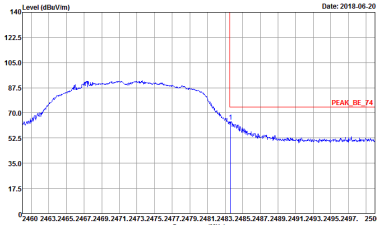
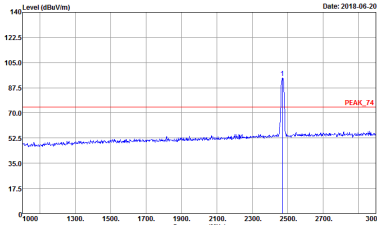
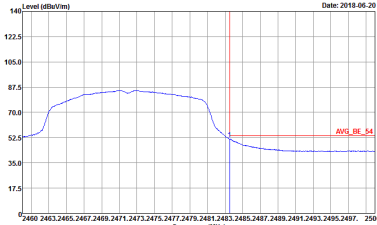
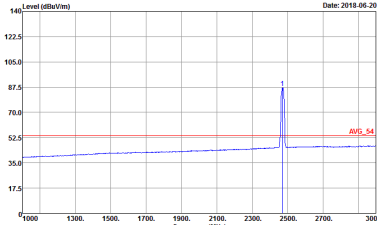
WIFI	2.4GHz 2400~2483.5MHz Fundamental @ 3m	
ANT	802.11n HT20 CH11 2462MHz	
1+2	Vertical	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_15_1620 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_15_1620 VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto	 Site : 03CH15-HY Condition : AVG_54 3m 91200_15_1620 VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto



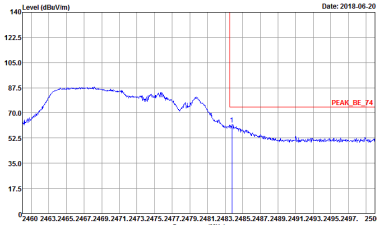
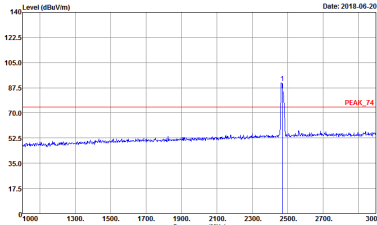
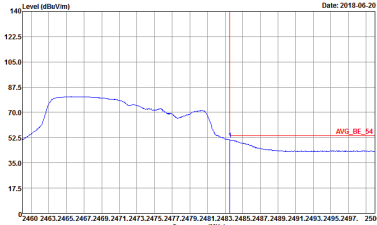
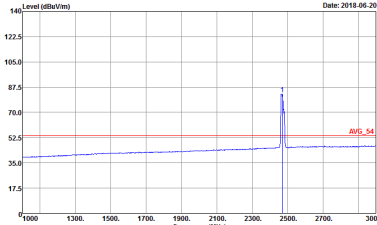
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH12 2467MHz	
1+2	Horizontal	Fundamental
Peak	Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto	Site : 03CH15-HY Condition : AVG_54 3m 91200_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH12 2467MHz	
1+2	Vertical	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_15_1620 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_15_1620 VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto	 Site : 03CH15-HY Condition : AVG_54 3m 91200_15_1620 VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto



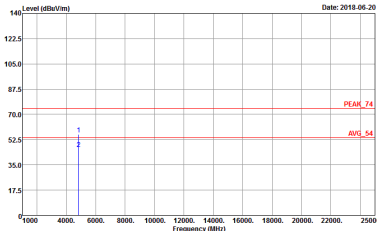
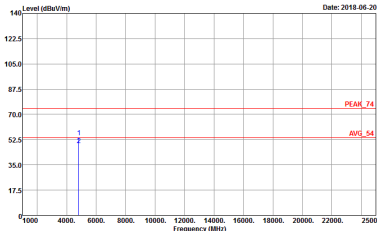
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH13 2472MHz	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto	 Site : 03CH15-HY Condition : AVG_54 3m 91200_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto



WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH13 2472MHz	
1+2	Vertical	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_15_1620 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_15_1620 VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto	 Site : 03CH15-HY Condition : AVG_54 3m 91200_15_1620 VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto



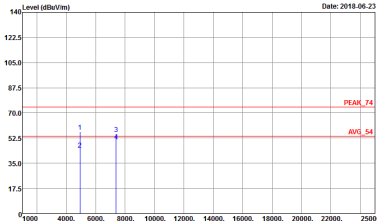
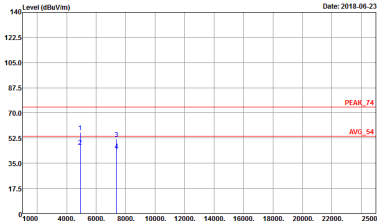
2.4GHz 2400~2483.5MHz
WIFI 802.11b (Harmonic @ 3m)

WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11b CH01 2412MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 HORIZONTAL Detector : Peak	 Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 VERTICAL Detector : Peak



WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11b CH06 2437MHz	
1+2	Horizontal	Vertical
Peak Avg.	Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 HORIZONTAL Detector : Peak	Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 VERTICAL Detector : Peak



WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11b CH11 2462MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 HORIZONTAL Detector : Peak	 Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 VERTICAL Detector : Peak



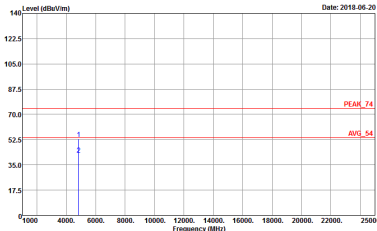
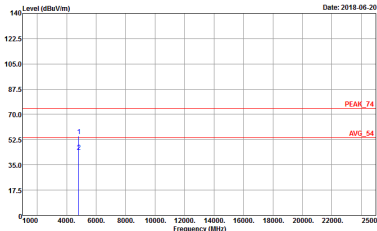
WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11b CH12 2467MHz	
1+2	Horizontal	Vertical
Peak Avg.	Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 HORIZONTAL Detector : Peak	Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 VERTICAL Detector : Peak



WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11b CH13 2472MHz	
1+2	Horizontal	Vertical
Peak Avg.	Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 HORIZONTAL Detector : Peak	Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 VERTICAL Detector : Peak



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

WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11g CH01 2412MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 HORIZONTAL Detector : Peak	 Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 VERTICAL Detector : Peak



WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11g CH06 2437MHz	
1+2	Horizontal	Vertical
Peak Avg.	Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 HORIZONTAL Detector : Peak	Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 VERTICAL Detector : Peak

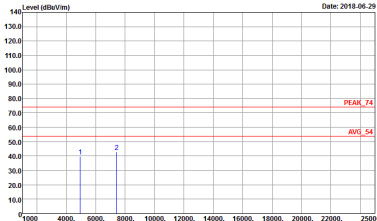
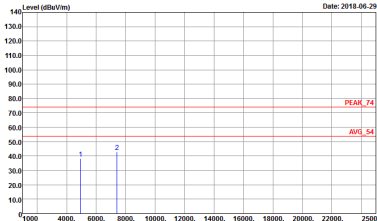


WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11g CH11 2462MHz	
1+2	Horizontal	Vertical
Peak Avg.	Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 HORIZONTAL Detector : Peak	Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 VERTICAL Detector : Peak



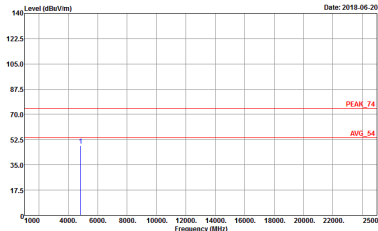
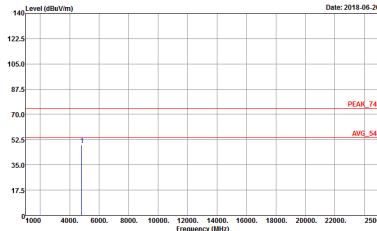
WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11g CH12 2467MHz	
1+2	Horizontal	Vertical
Peak Avg.	Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 HORIZONTAL Detector : Peak	Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 VERTICAL Detector : Peak



WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11g CH13 2472MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH15-HY Condition : PEAK_74 3m 9120D_15_1620 HORIZONTAL Detector : Peak	 Site : 03CH15-HY Condition : PEAK_74 3m 9120D_15_1620 VERTICAL Detector : Peak



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

WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11n HT20 CH01 2412MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 HORIZONTAL Detector : Peak	 Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 VERTICAL Detector : Peak



WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11n HT20 CH06 2437MHz	
1+2	Horizontal	Vertical
Peak Avg.	Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 HORIZONTAL Detector : Peak	Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 VERTICAL Detector : Peak



WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11n HT20 CH11 2462MHz	
1+2	Horizontal	Vertical
Peak Avg.	Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 HORIZONTAL Detector : Peak	Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 VERTICAL Detector : Peak

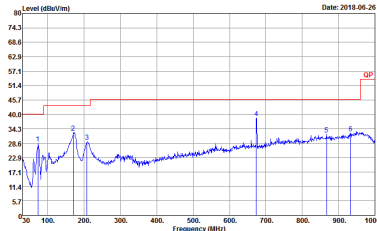
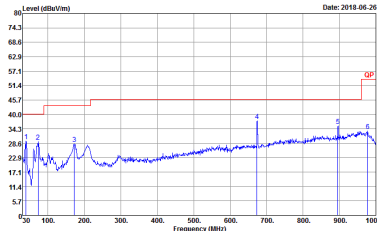


WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11n HT20 CH12 2462MHz	
1+2	Horizontal	Vertical
Peak Avg.	Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 HORIZONTAL Detector : Peak	Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 VERTICAL Detector : Peak



WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11n HT20 CH13 2472MHz	
1+2	Horizontal	Vertical
Peak Avg.	Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 HORIZONTAL Detector : Peak	Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 VERTICAL Detector : Peak

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

WIFI	2.4GHz 2400~2483.5MHz	
ANT	802.11g LF	
1+2	Horizontal	Vertical
QP / Peak	 Site : 03CH15-HY Condition : QP 3m BIL06_15_41912 HORIZONTAL Detector : Peak	 Site : 03CH15-HY Condition : QP 3m BIL06_15_41912 VERTICAL Detector : Peak



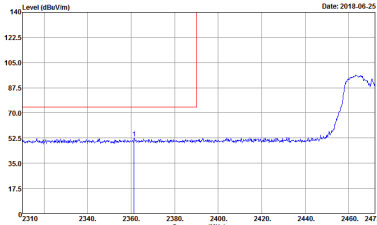
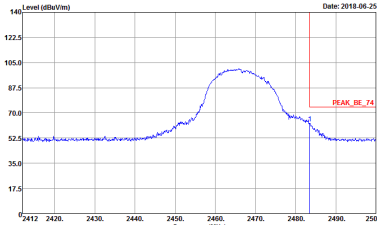
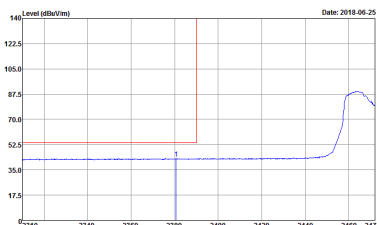
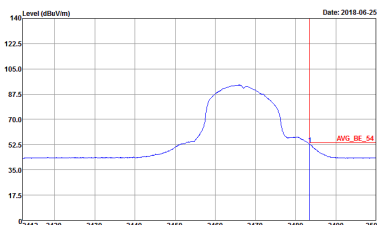
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2.4GHz 2400~2483.5MHz

WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH12 2467MHz	
1+2	Horizontal	Fundamental
Peak	Site Condition : 03CH15-HY : PEAK_74 3m 91200_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Site Condition : 03CH15-HY : PEAK_BE_74 3m 91200_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	Site Condition : 03CH15-HY : AVG_54 3m 91200_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:1000KHz SWT:Auto	Site Condition : 03CH15-HY : AVG_BE_54 3m 91200_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:1000KHz SWT:Auto



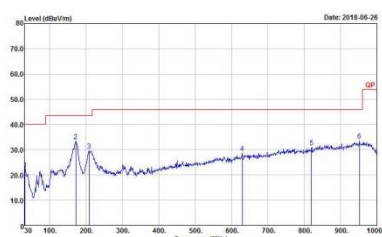
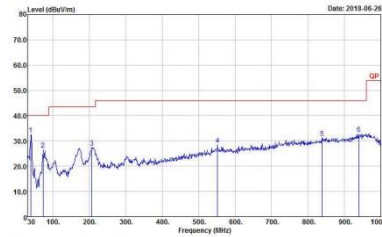
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH12 2467MHz	
1+2	Vertical	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_15_1620 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_15_1620 VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto	 Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto



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

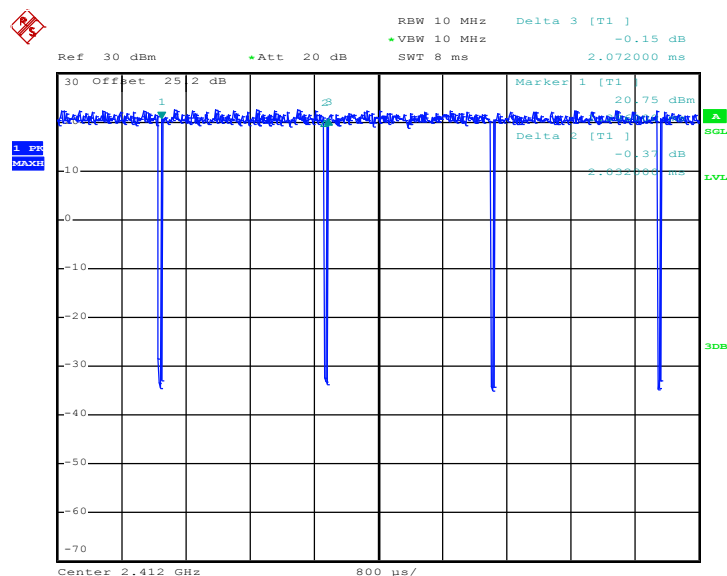
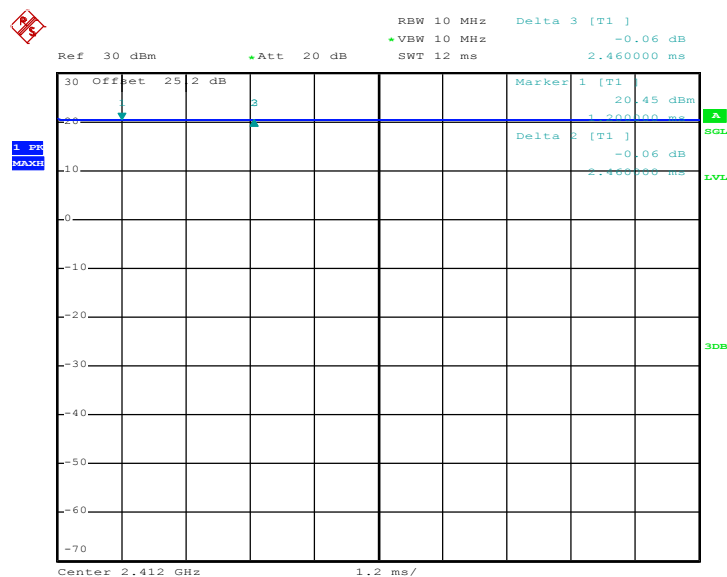
WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11n HT20 CH12 2462MHz	
1+2	Horizontal	Vertical
Peak Avg.	Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 HORIZONTAL Detector : Peak	Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 VERTICAL Detector : Peak

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

WIFI	2.4GHz 2400~2483.5MHz	
ANT	802.11n HT20 LF	
1+2	Horizontal	Vertical
QP / Peak	 Site : 03CH15-HY Condition : QP 3m 8106_15_41912 HORIZONTAL Detector : Peak	 Site : 03CH15-HY Condition : QP 3m 8106_15_41912 VERTICAL Detector : Peak

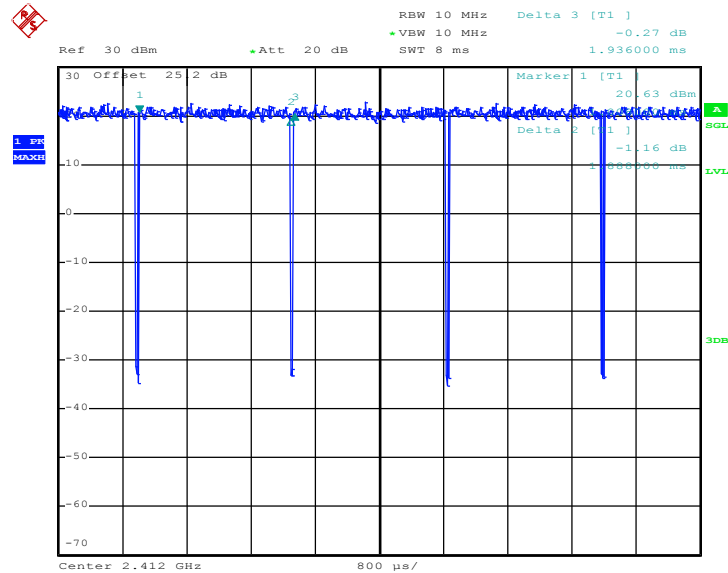
Appendix E. Duty Cycle Plots

Antenna	Band	Duty Cycle(%)	T(us)	1/T(kHz)	VBW Setting	Duty Factor(dB)
1	802.11b	100.00	-	-	10Hz	0.00
2	802.11b	100.00	-	-	10Hz	0.00
1+2	802.11b for Ant. 1	100.00	-	-	10Hz	0.00
1+2	802.11b for Ant. 2	100.00	-	-	10Hz	0.00
1	802.11g	98.07	-	-	10Hz	0.08
2	802.11g	97.69	2032	0.49	1kHz	0.10
1+2	802.11g for Ant. 1	97.73	2064	0.48	1kHz	0.10
1+2	802.11g for Ant. 2	97.73	2064	0.48	1kHz	0.10
1	2.4GHz 802.11n HT20	97.52	1888	0.53	1kHz	0.11
2	2.4GHz 802.11n HT20	97.52	1888	0.53	1kHz	0.11
1+2	2.4GHz 802.11n HT20 for Ant. 1	97.56	1920	0.52	1kHz	0.11
1+2	2.4GHz 802.11n HT20 for Ant. 2	97.56	1920	0.52	1kHz	0.11
1	2.4GHz 802.11n VHT20	97.56	1920	0.52	1kHz	0.11
2	2.4GHz 802.11n VHT20	97.58	1936	0.52	1kHz	0.11
1+2	2.4GHz 802.11n VHT20 for Ant. 1	97.56	1920	0.52	1kHz	0.11
1+2	2.4GHz 802.11n VHT20 for Ant. 2	97.56	1920	0.52	1kHz	0.11



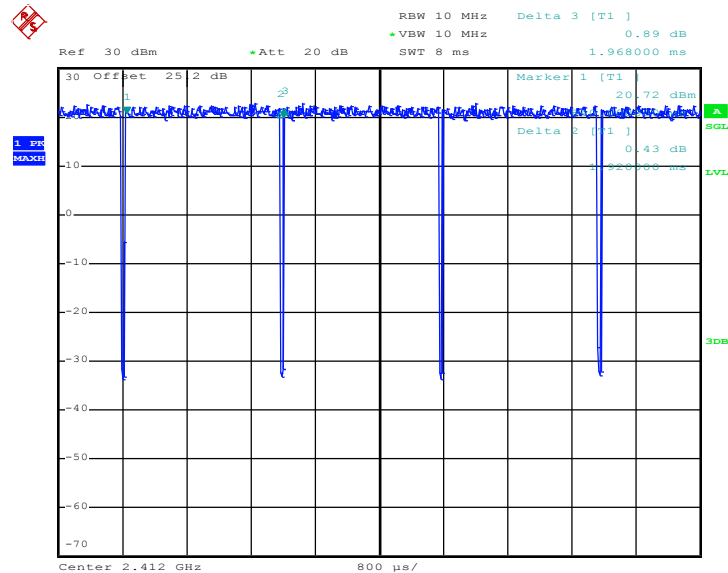


802.11n HT20



Date: 8.JUN.2018 21:23:44

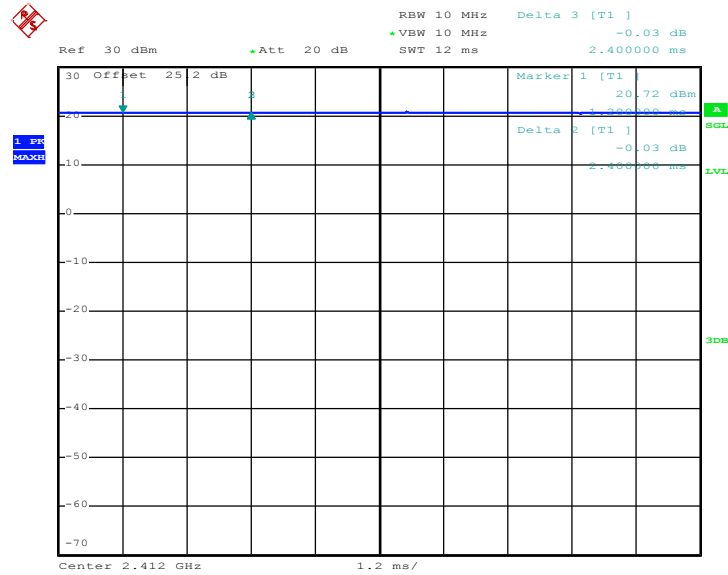
802.11ac VHT20



Date: 12.JUN.2018 20:26:57

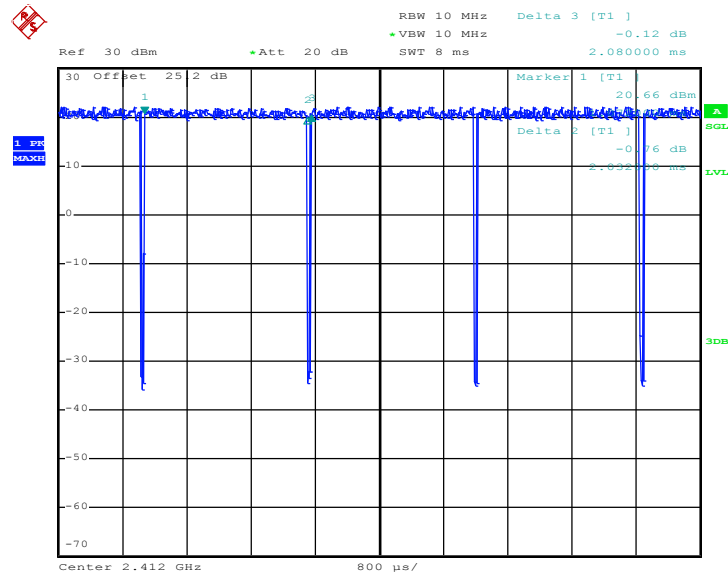
<Ant. 2>

802.11b



Date: 8.JUN.2018 20:14:08

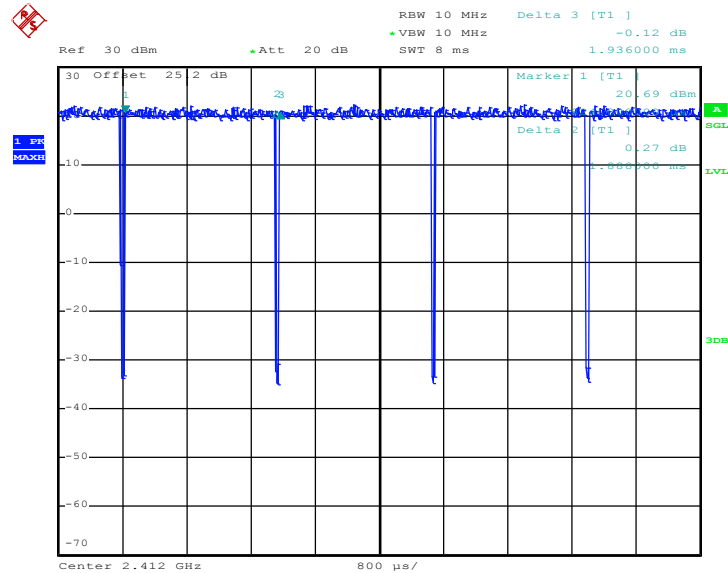
802.11g



Date: 8.JUN.2018 20:41:53

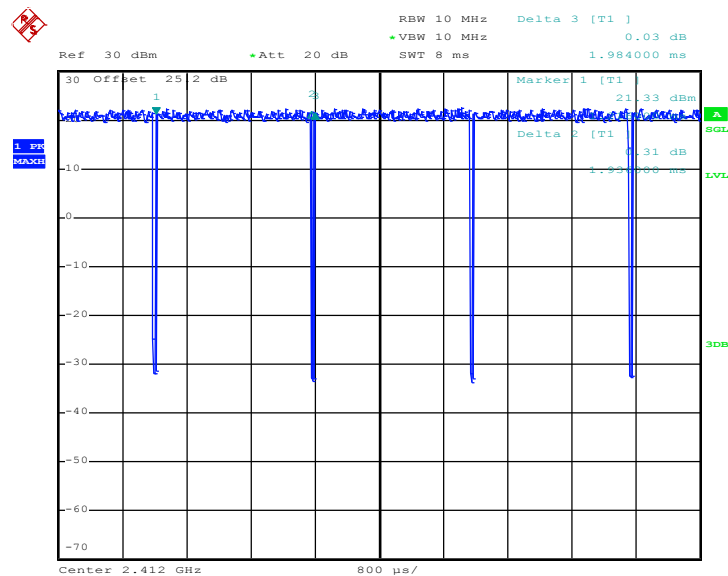


802.11n HT20

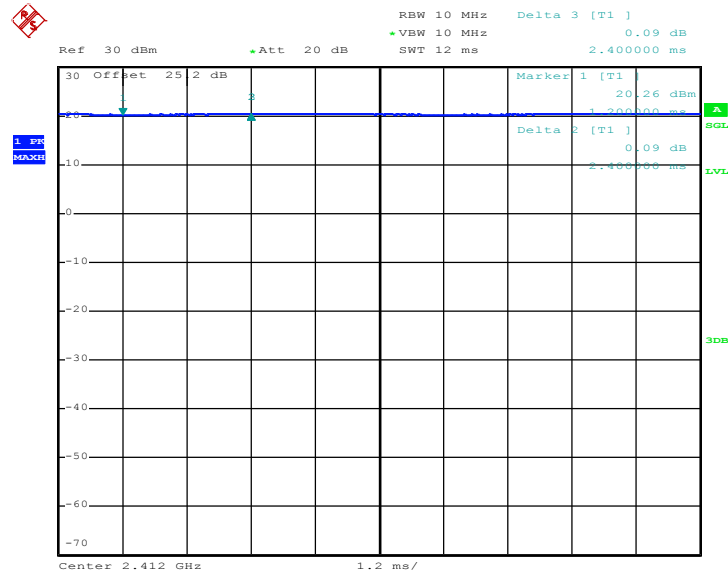


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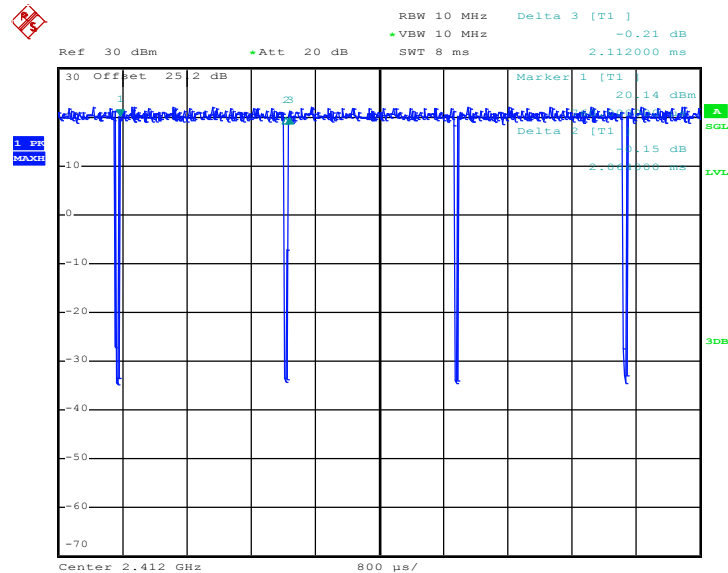
802.11ac VHT20



Date: 12.JUN.2018 20:27:56

MIMO <Ant. 1>
802.11b


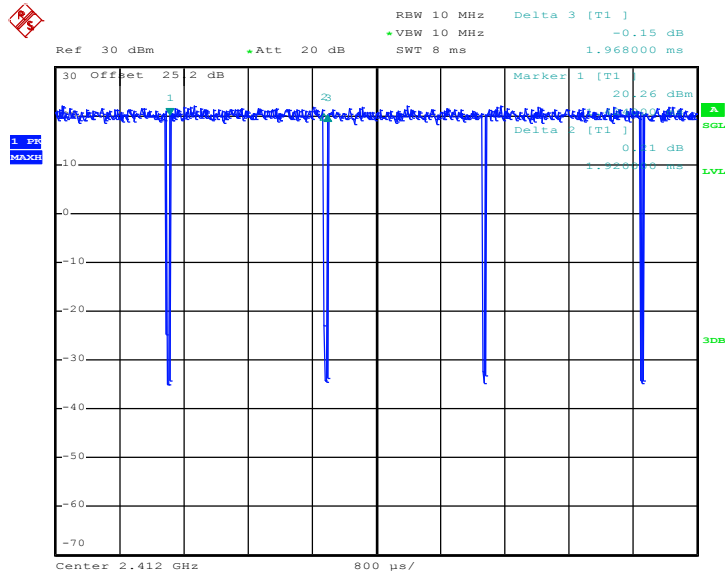
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802.11g


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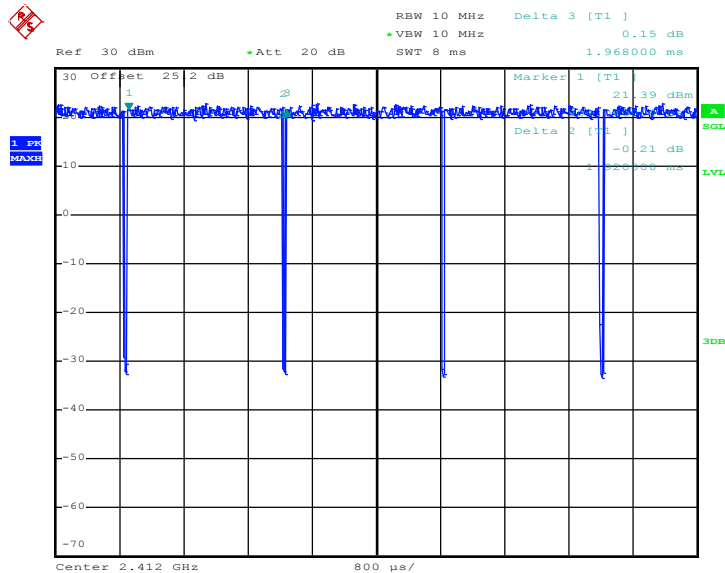


802.11n HT20



Date: 8.JUN.2018 22:53:18

802.11ac VHT20

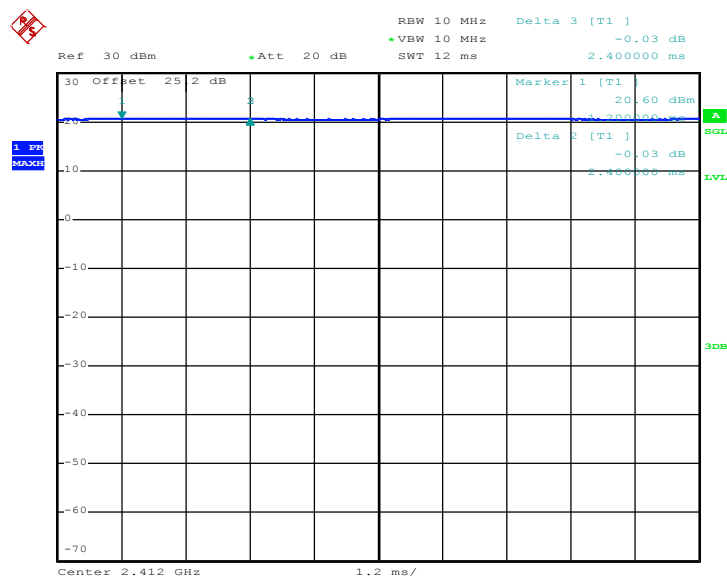


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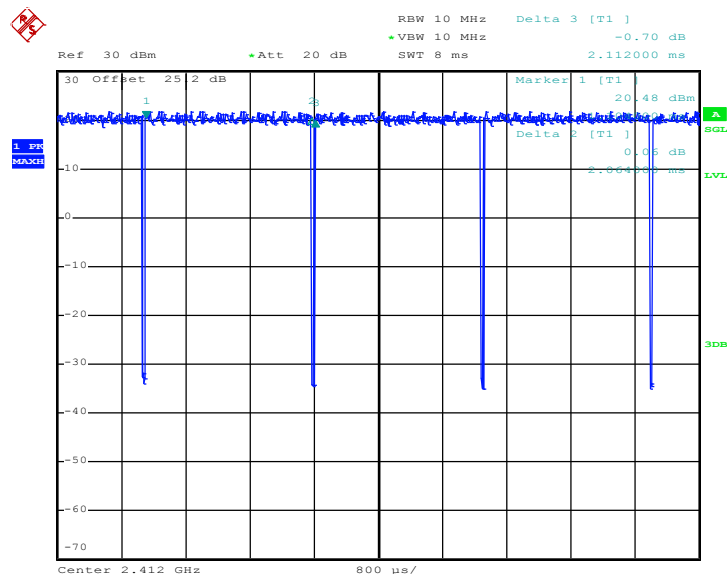
MIMO <Ant. 2>

802.11b



Date: 8.JUN.2018 22:45:35

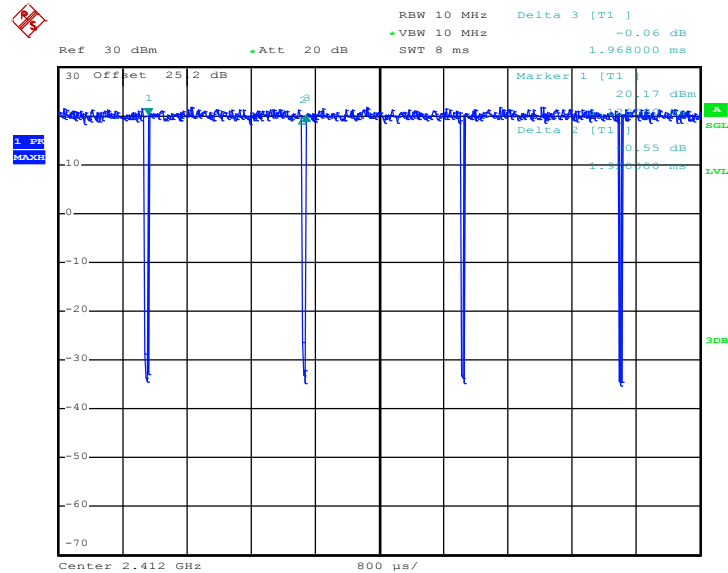
802.11g



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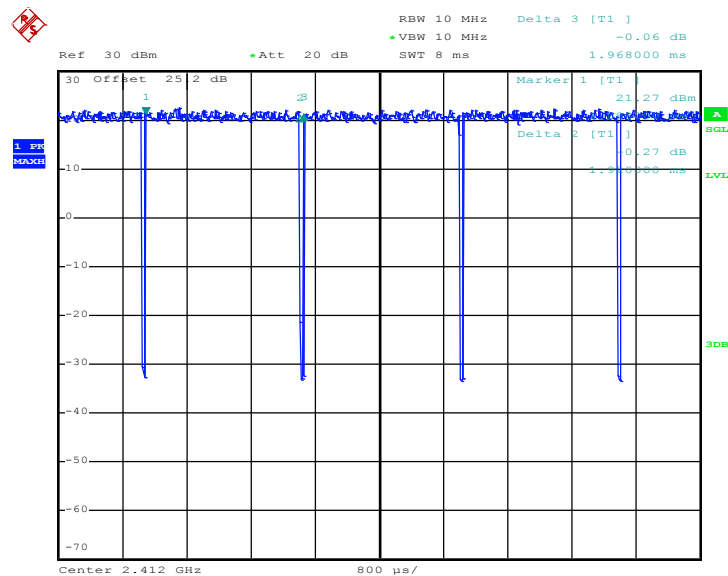


802.11n HT20



Date: 8.JUN.2018 22:55:53

802.11ac VHT20



Date: 12.JUN.2018 20:16:43

—THE END—