

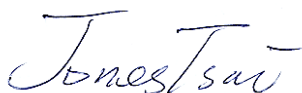
FCC RADIO TEST REPORT

FCC ID : A4RG013A
Equipment : Phone
Model Name : G013A
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. 24, 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
FR820225-02C	01	Initial issue of report	Jun. 25, 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 1.08 dB at 2483.520 MHz
3.6	15.207	AC Conducted Emission	Pass	Under limit 12.85 dB at 0.150 MHz
3.7	15.203 & 15.247(b)	Antenna Requirement	Pass	-

Reviewed by: Joseph Lin

Report Producer: Nancy Yang

1 General Description

1.1 Product Feature of Equipment Under Test

Product Feature	
Equipment	Phone
Model Name	G013A
FCC ID	A4RG013A
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	84PX006ND
#2	84UX008MB
#3	84VX0092H
#4	839X004QG

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 : 21.83 dBm (0.1524 W) 802.11g : 23.14 dBm (0.2061 W) 802.11n HT20 : 23.33 dBm (0.2153 W) 802.11 ac VHT20 : 23.31 dBm (0.2143 W) <Ant. 2> 802.11b : 22.08 dBm (0.1614 W) 802.11g : 23.12 dBm (0.2051 W) 802.11n HT20 : 23.39 dBm (0.2183 W) 802.11 ac VHT20 : 23.18 dBm (0.2080 W) MIMO <Ant. 1+2> 802.11b : 25.03 dBm (0.3184 W) 802.11g : 26.21 dBm (0.4178 W) 802.11n HT20 : 26.39 dBm (0.4355 W) 802.11 ac VHT20 : 26.31 dBm (0.4276 W)		
99% Occupied Bandwidth	<Ant. 1> 802.11b : 14.55MHz 802.11g : 18.85MHz 802.11n HT20 : 20.20MHz <Ant. 2> 802.11b : 15.10MHz 802.11g : 18.00MHz 802.11n HT20 : 19.10MHz		
Antenna Type / Gain	<Ant. 1> ILA Antenna type with gain -2.38 dBi <Ant. 2> Loop Antenna type with gain -7.38 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.	
	03CH11-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.

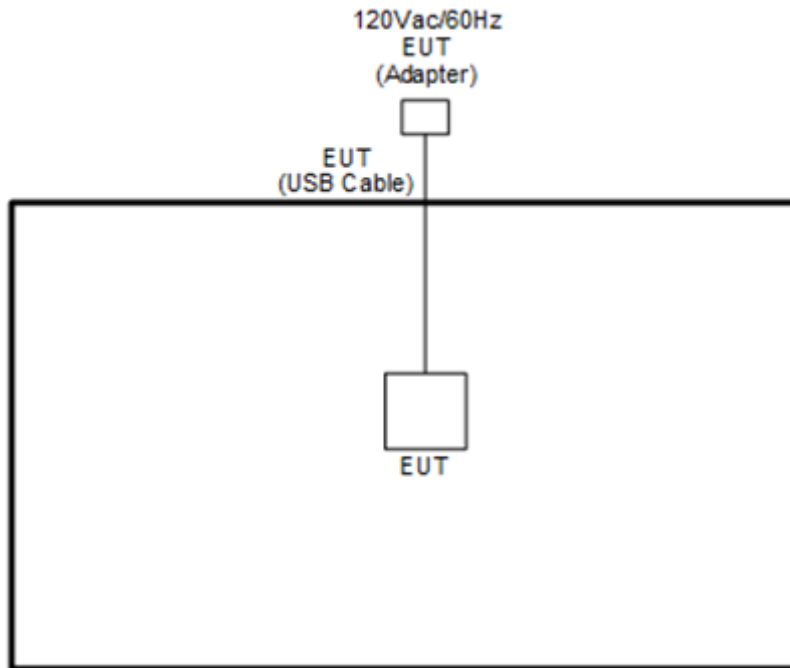
MIMO Antenna

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

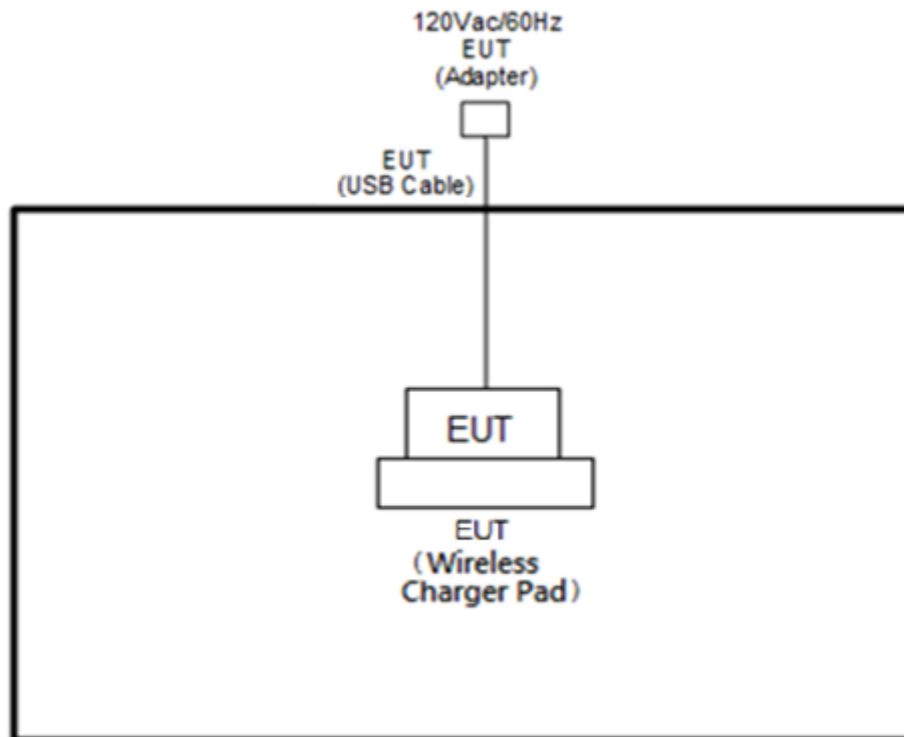
Test Cases	
AC Conducted Emission	Mode 1 :GSM1900 Idle + WLAN (2.4GHz) Link + Bluetooth Link + NFC Read On + USB cable (Type C) (Charging from Adapter 1)
Remark: For Radiated Test Cases, the tests were performed with Adapter 1.	

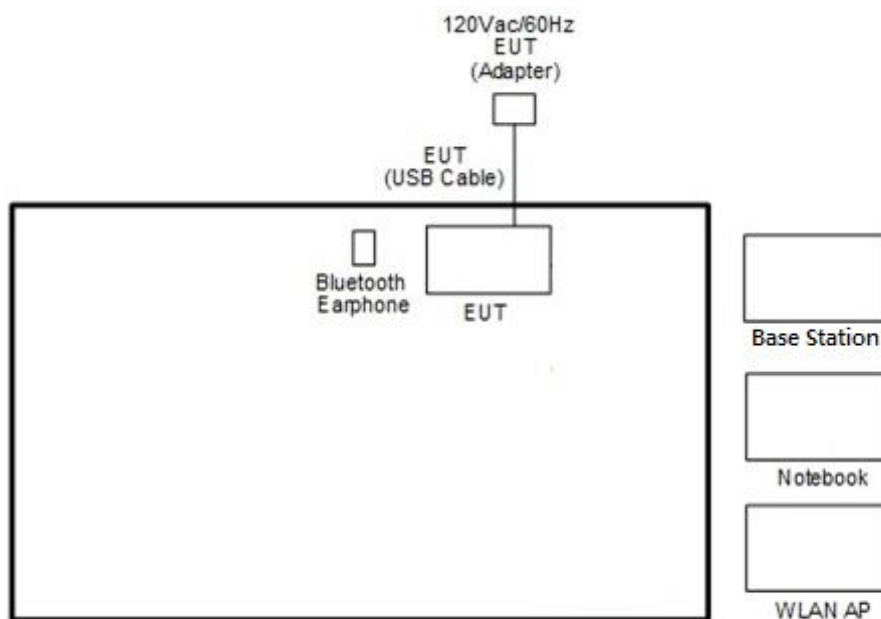
2.3 Connection Diagram of Test System

<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.

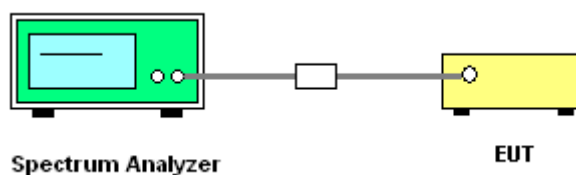
3.1.2 Measuring Instruments

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.

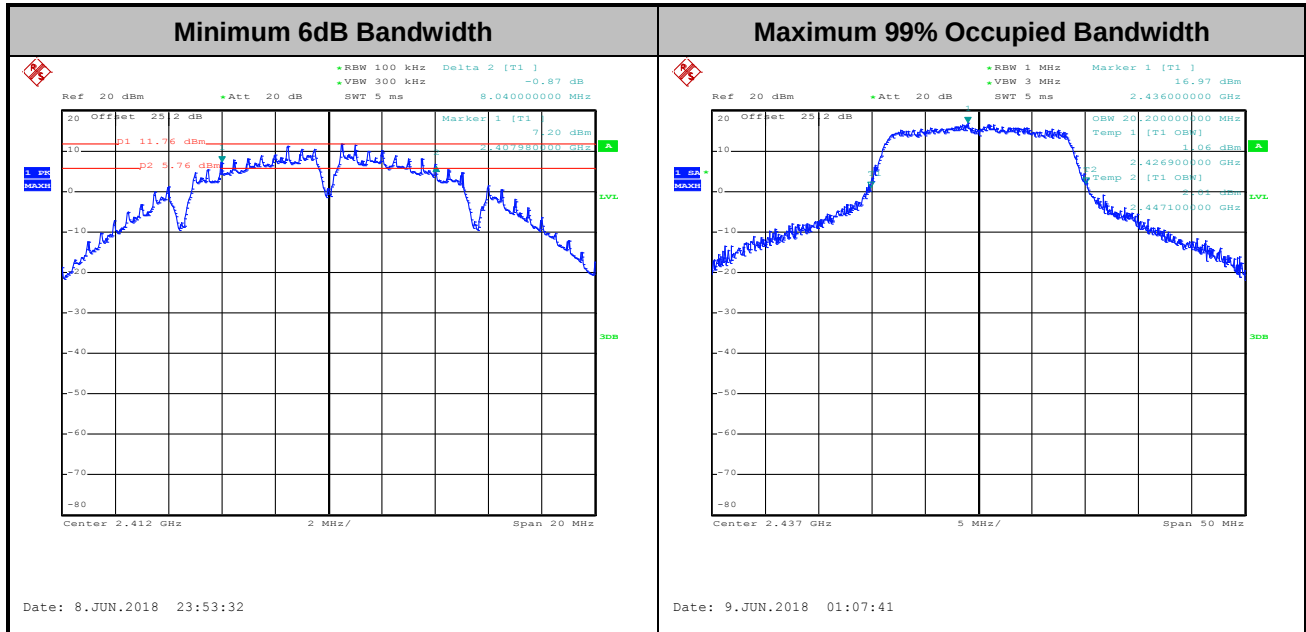
3.1.4 Test Setup





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.

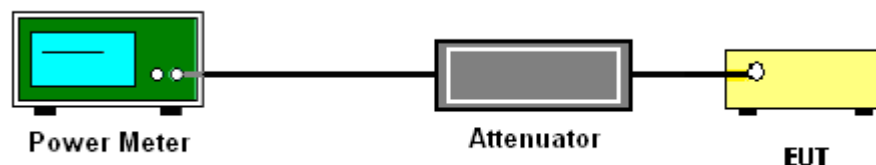
3.2.2 Measuring Instruments

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.

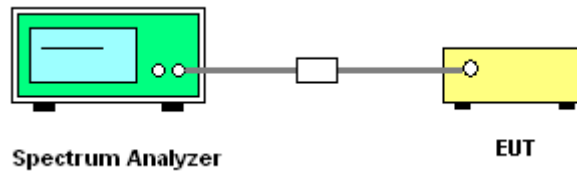
If measurements performed using method (2) plus $10 \log(N)$ exceeds the emission limit, the test should choose method (1) before declaring that the device fails the emission limit.

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.

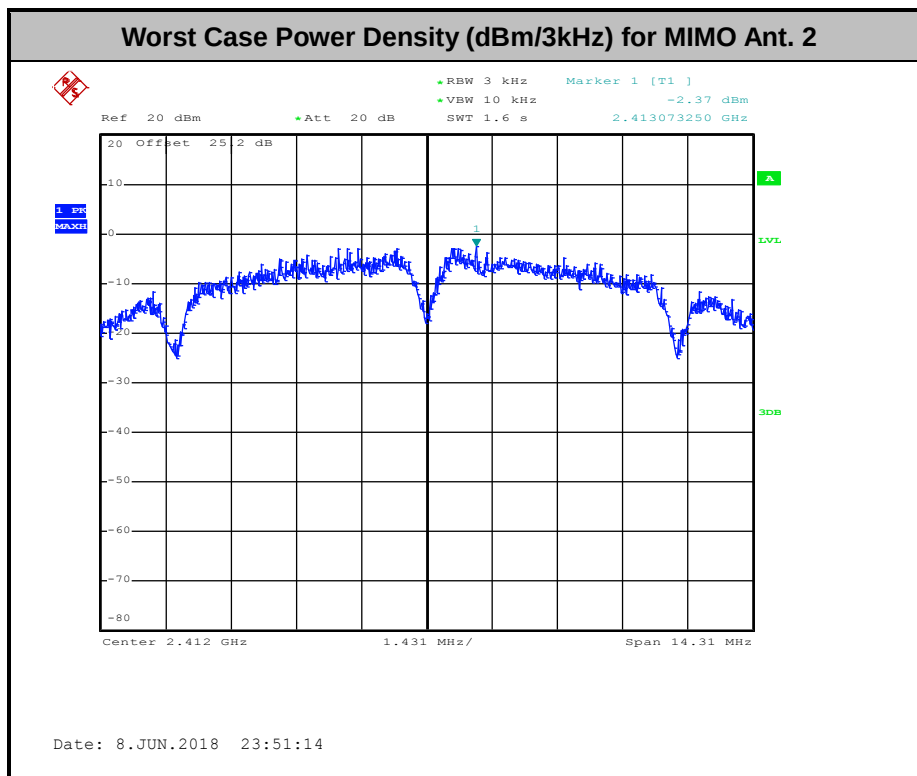
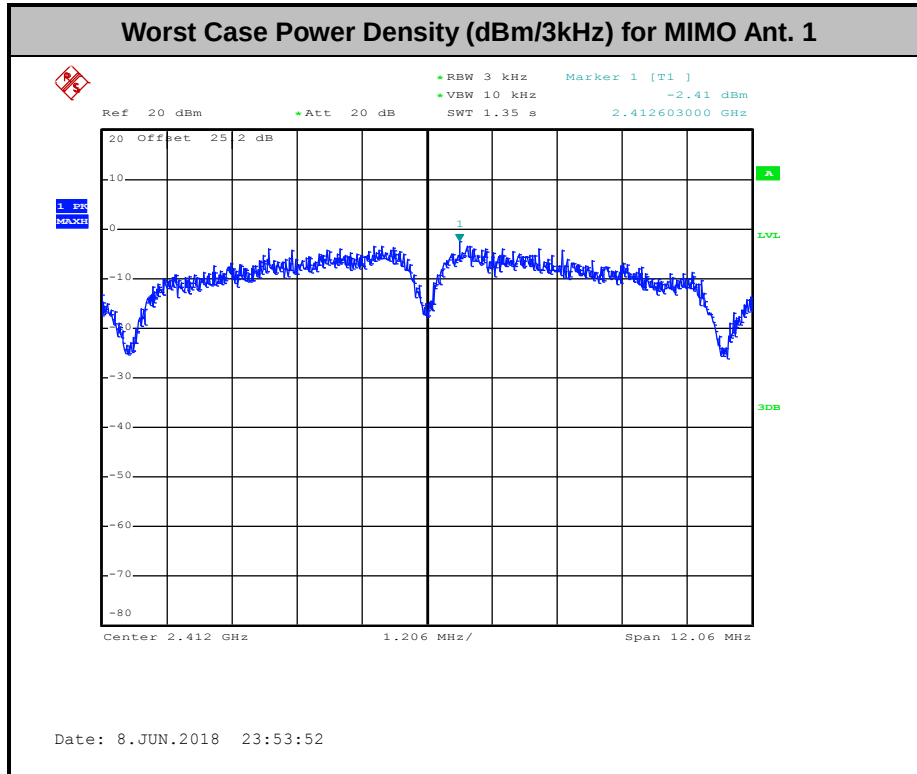
Method (2): Measure and add $10 \log(N)$ dB, where N is the number of outputs. (N=2)

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.

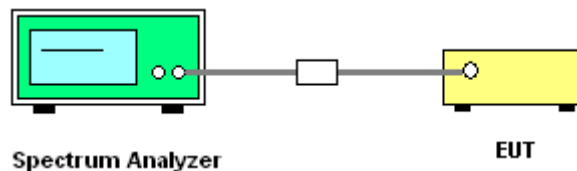
3.4.2 Measuring Instruments

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



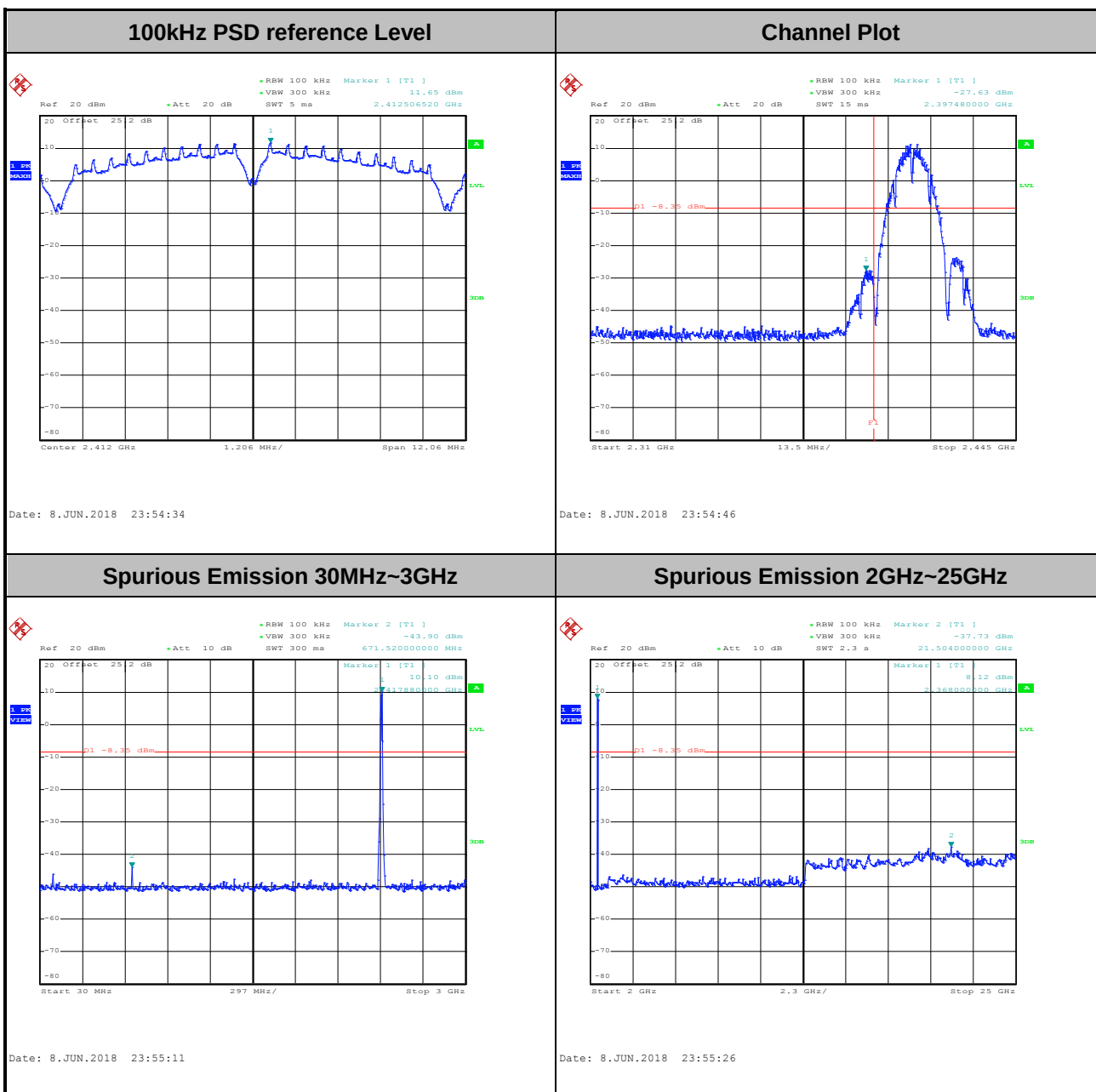


3.4.5 Test Result of Conducted Band Edges and Spurious Emission

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

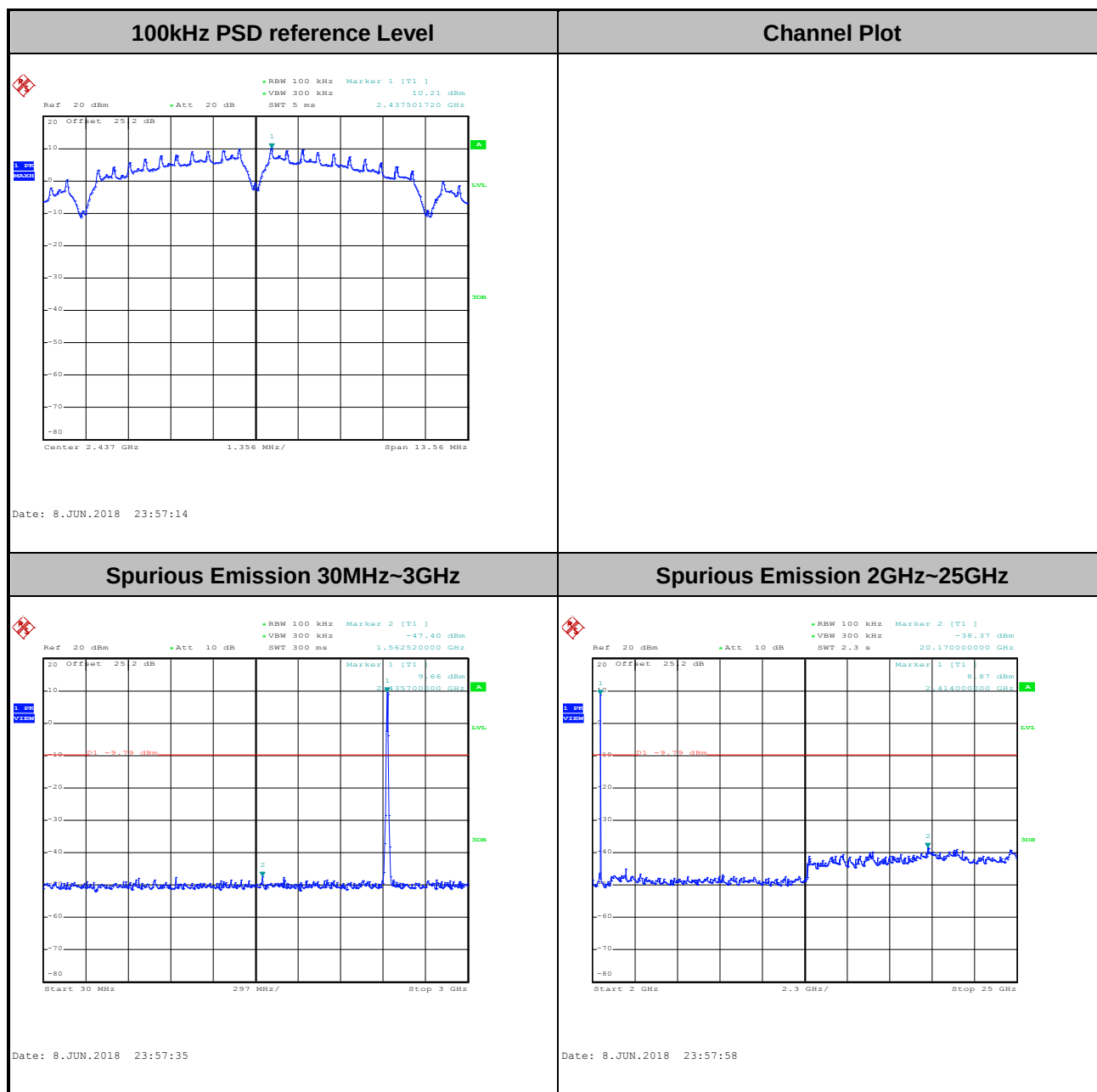
Number of TX = 2, Ant. 1 (Measured)

Test Mode :	802.11b	Test Channel :	01
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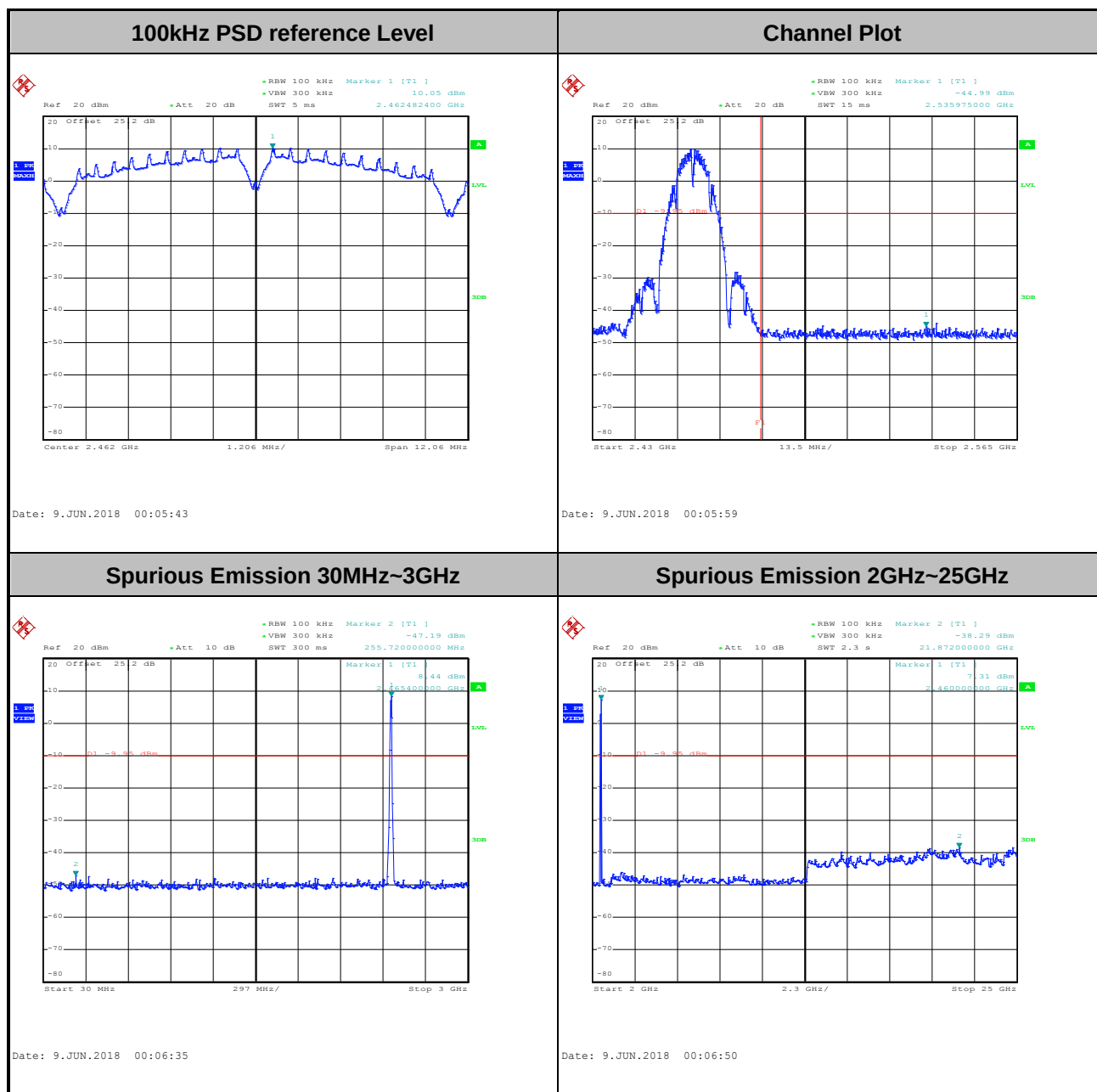


Test Mode :	802.11b	Test Channel :	06
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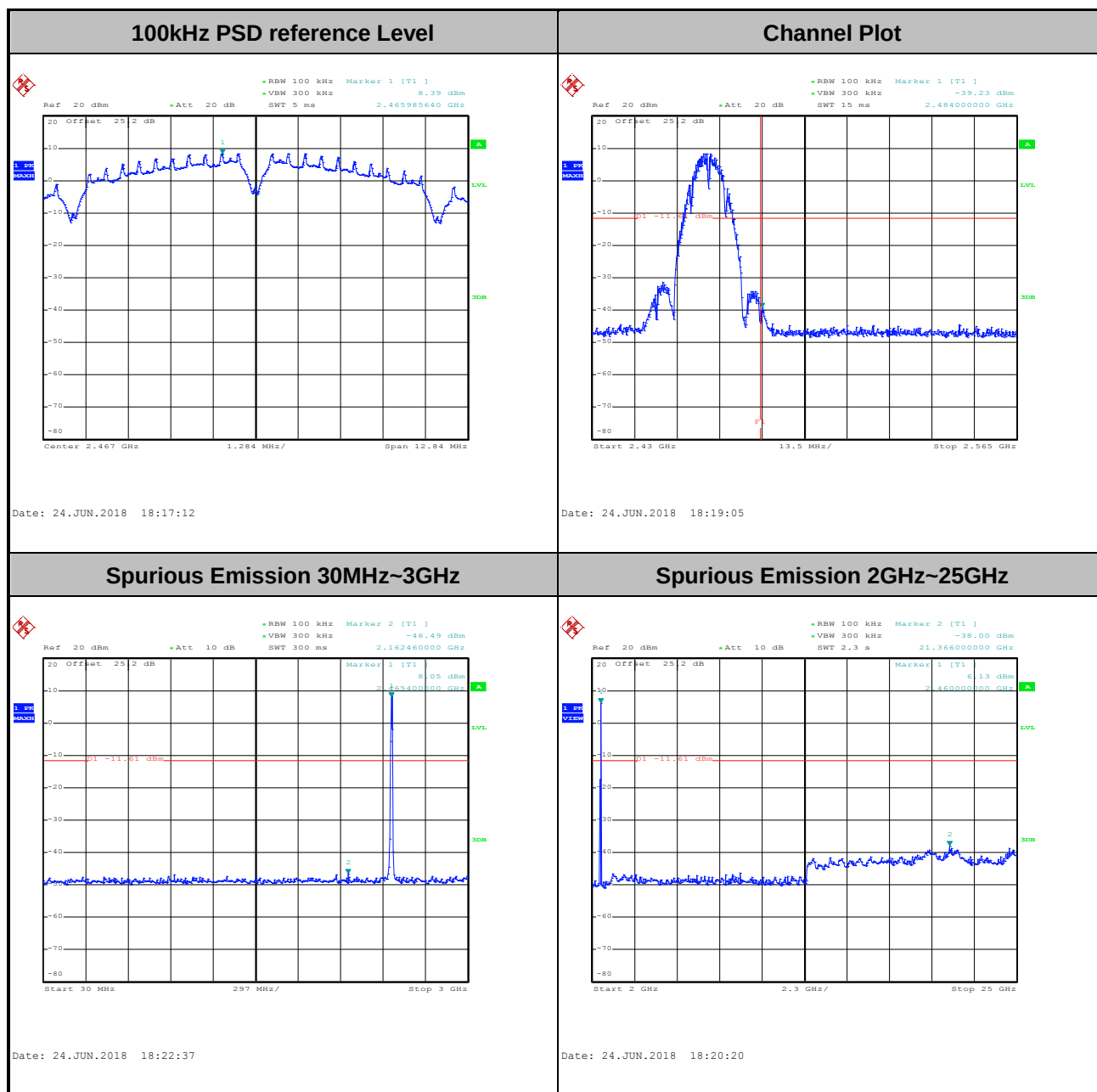


Test Mode :	802.11b	Test Channel :	11
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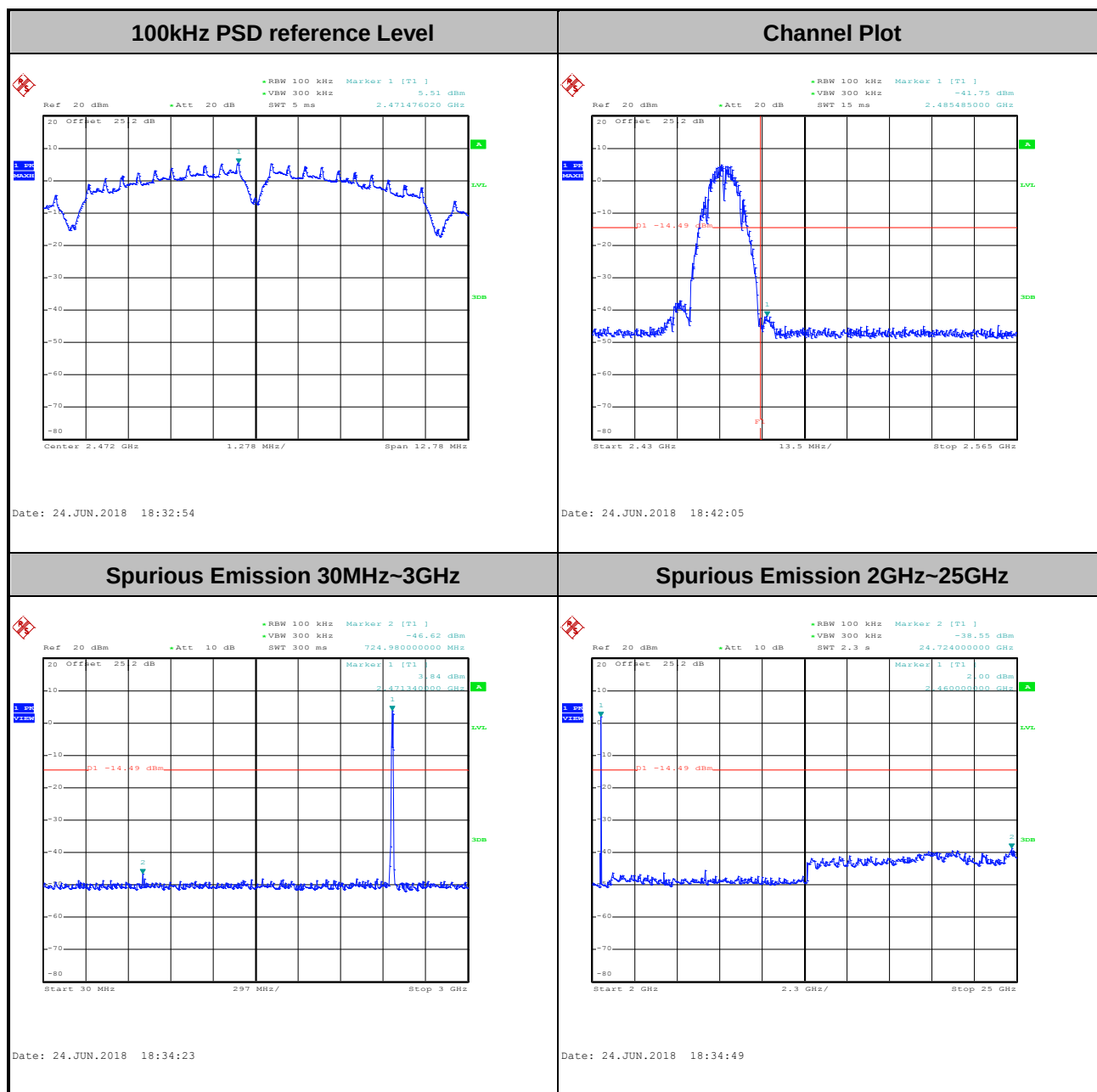


Test Mode :	802.11b	Test Channel :	12
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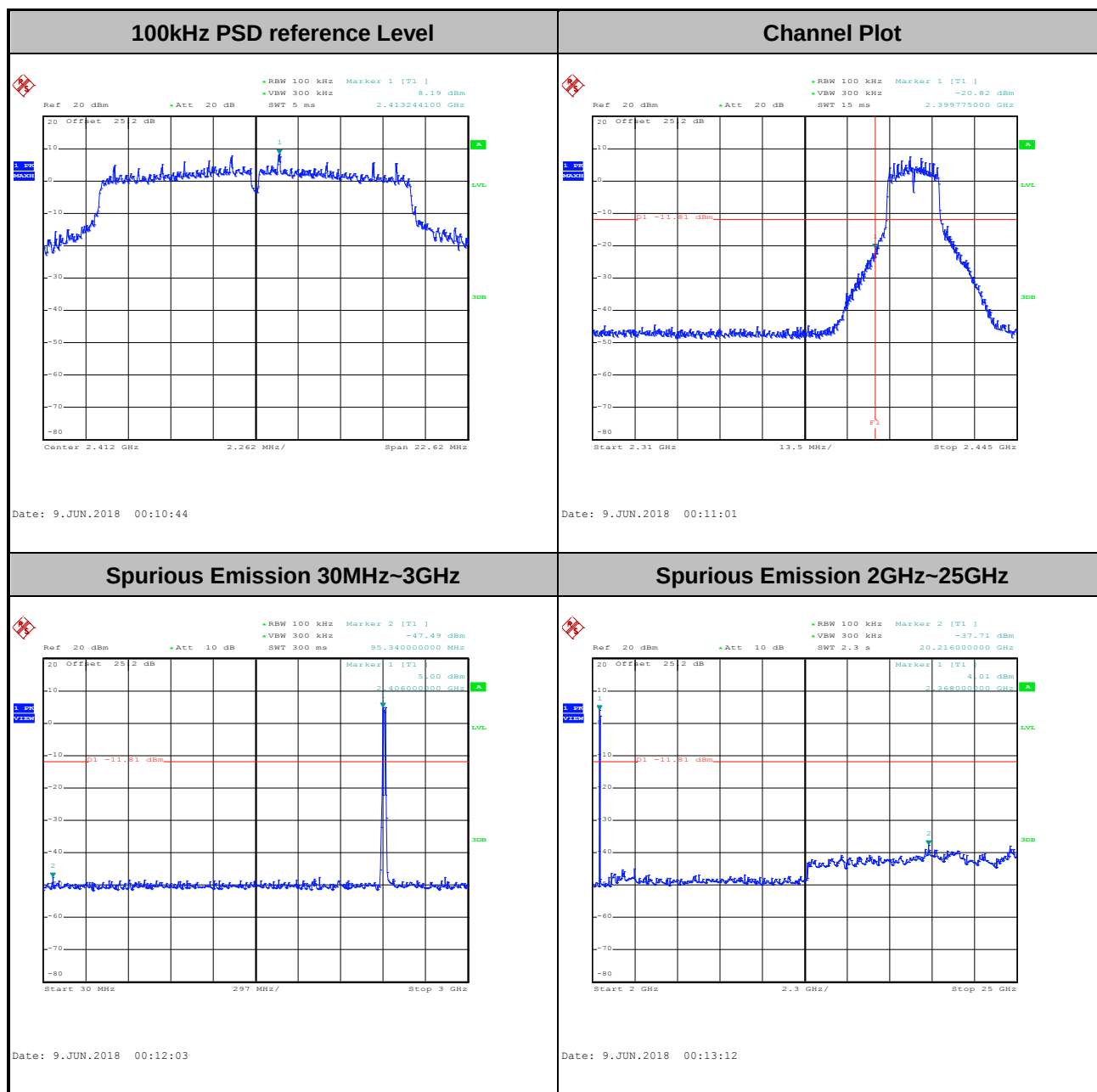


Test Mode :	802.11b	Test Channel :	13
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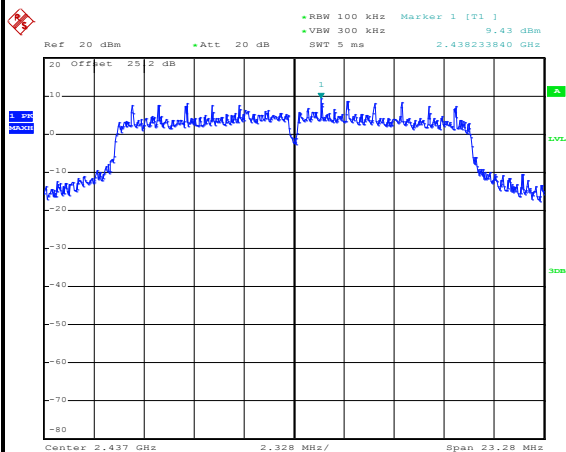
Test Mode :	802.11g	Test Channel :	01
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Test Mode :	802.11g	Test Channel :	06
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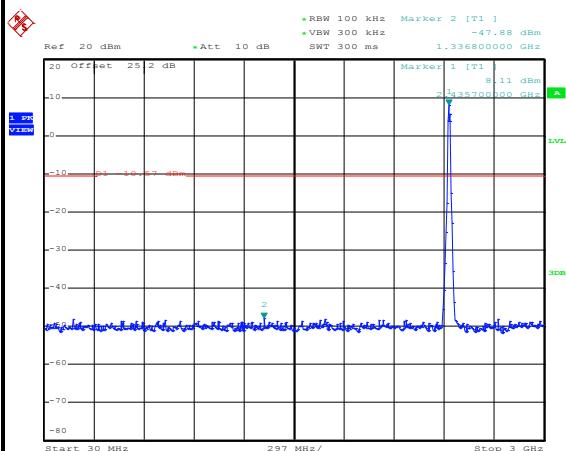
100kHz PSD reference Level



Date: 9.JUN.2018 00:24:26

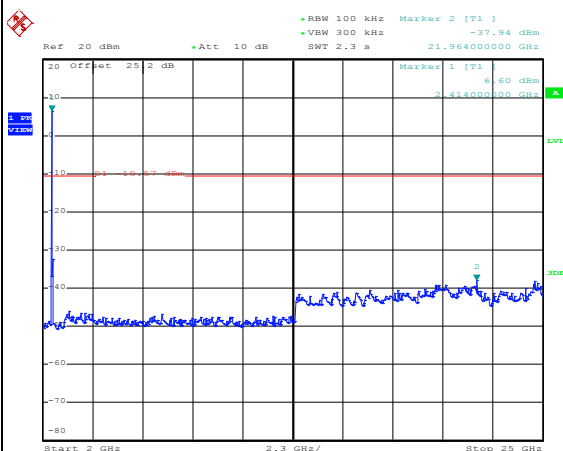
Channel Plot

Spurious Emission 30MHz~3GHz



Date: 9.JUN.2018 00:25:19

Spurious Emission 2GHz~25GHz

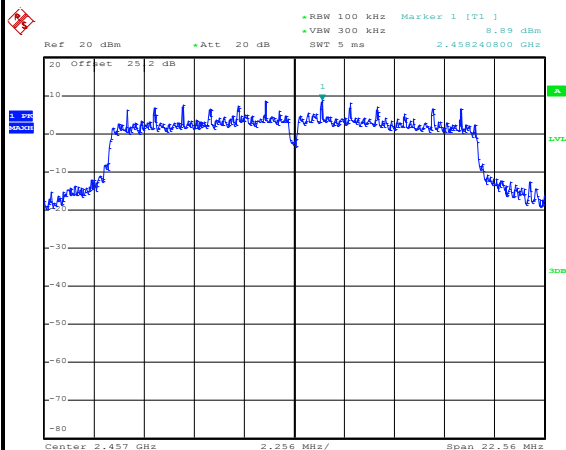


Date: 9.JUN.2018 00:25:34



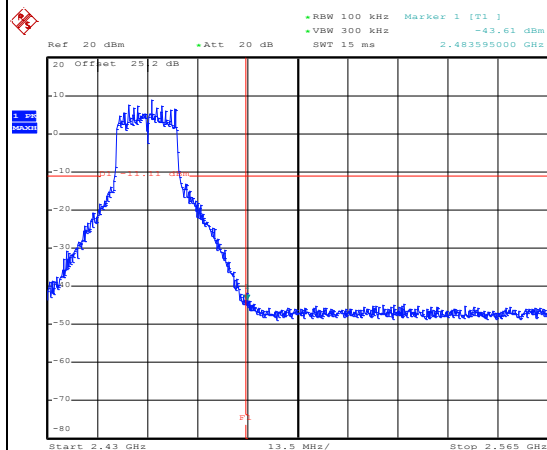
Test Mode :	802.11g	Test Channel :	10
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100kHz PSD reference Level



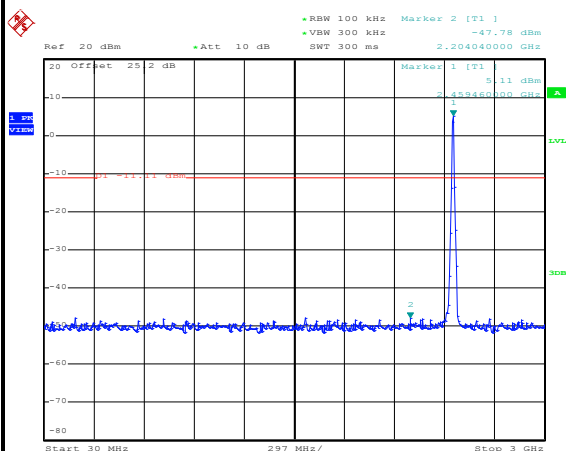
Date: 12.JUN.2018 20:03:39

Channel Plot



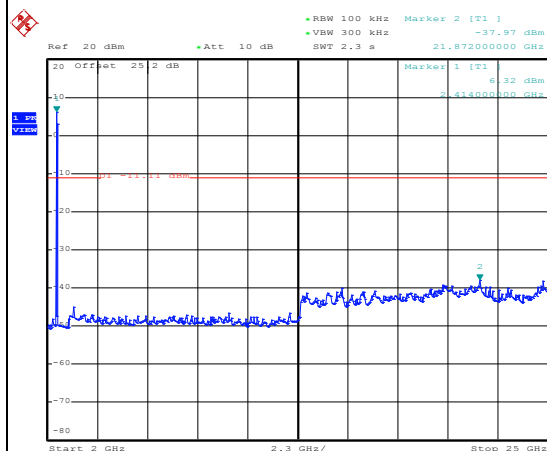
Date: 12.JUN.2018 20:04:16

Spurious Emission 30MHz~3GHz



Date: 12.JUN.2018 20:04:42

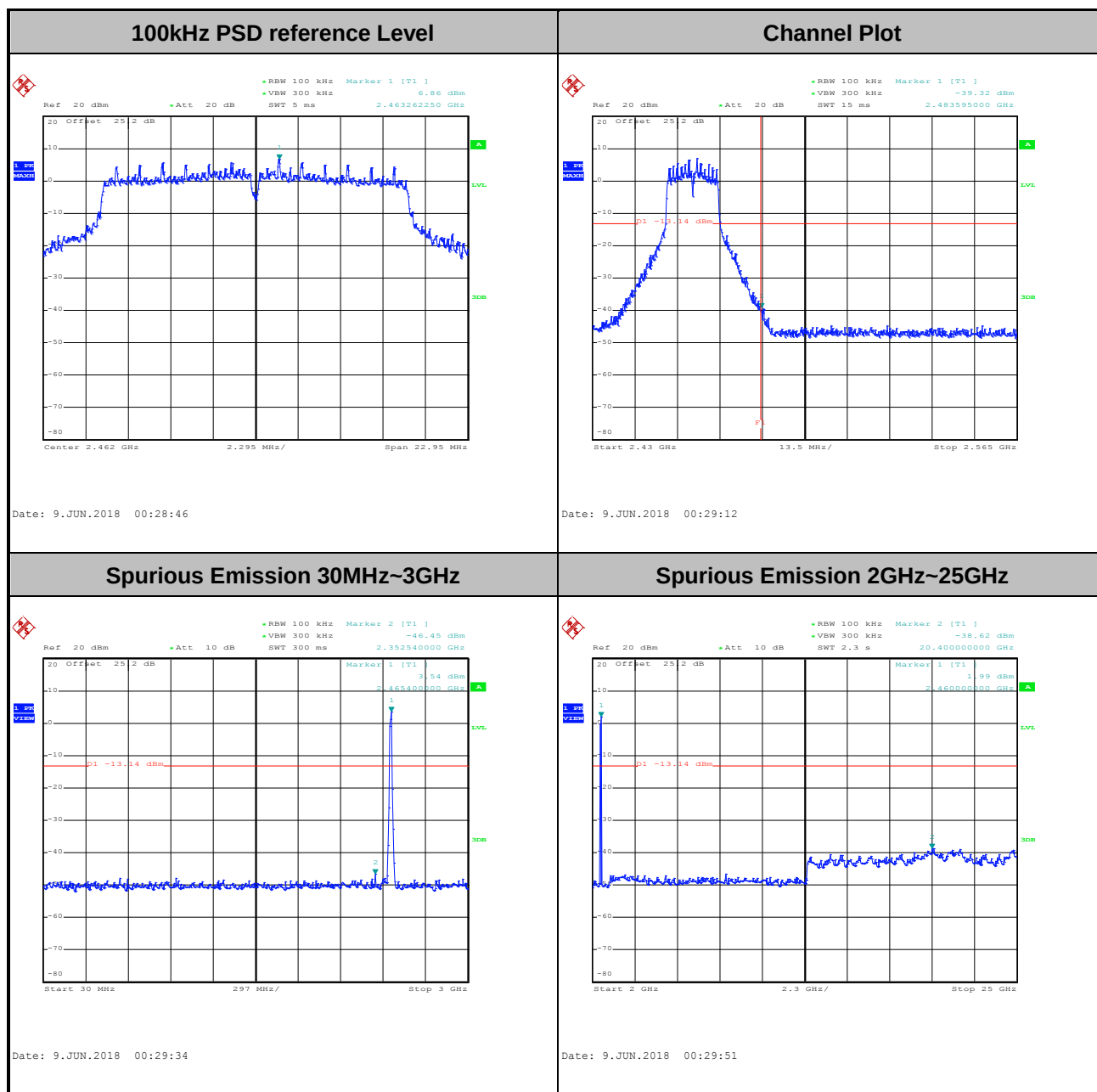
Spurious Emission 2GHz~25GHz



Date: 12.JUN.2018 20:04:56



Test Mode :	802.11g	Test Channel :	11
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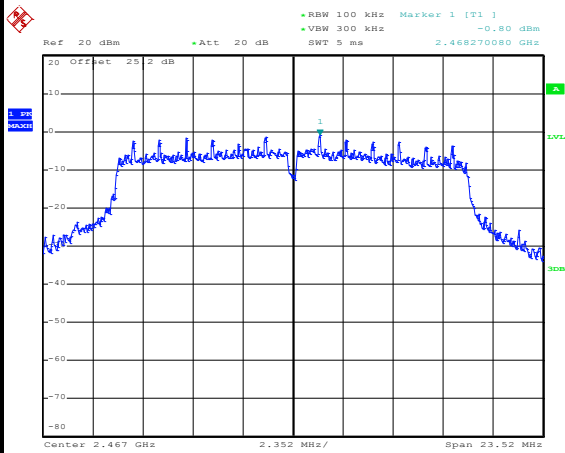




Test Mode : 802.11g

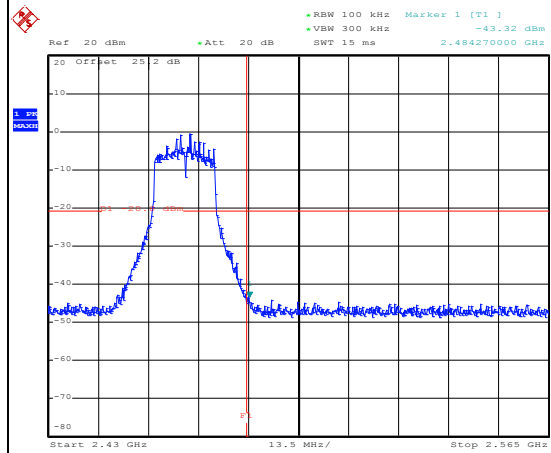
Test Channel : 12

100kHz PSD reference Level



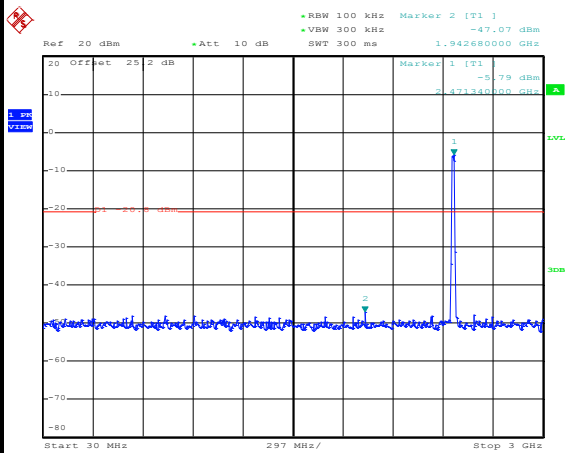
Date: 24.JUN.2018 18:46:16

Channel Plot



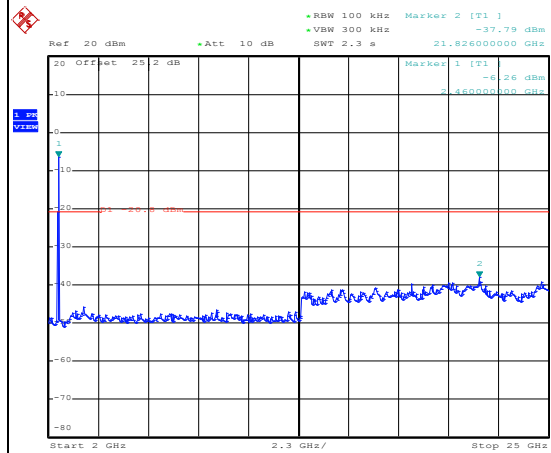
Date: 24.JUN.2018 18:46:39

Spurious Emission 30MHz~3GHz



Date: 24.JUN.2018 18:47:14

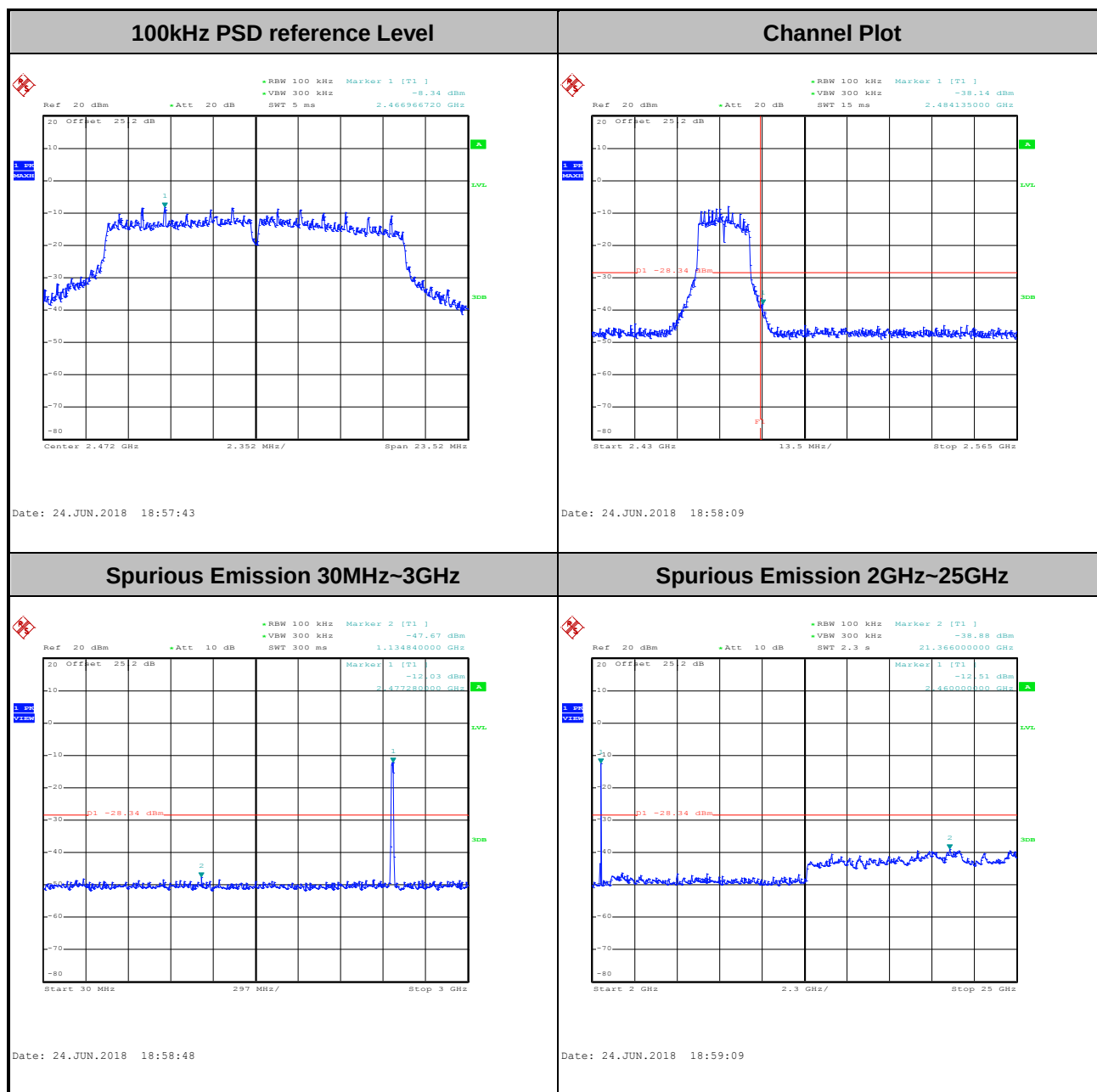
Spurious Emission 2GHz~25GHz

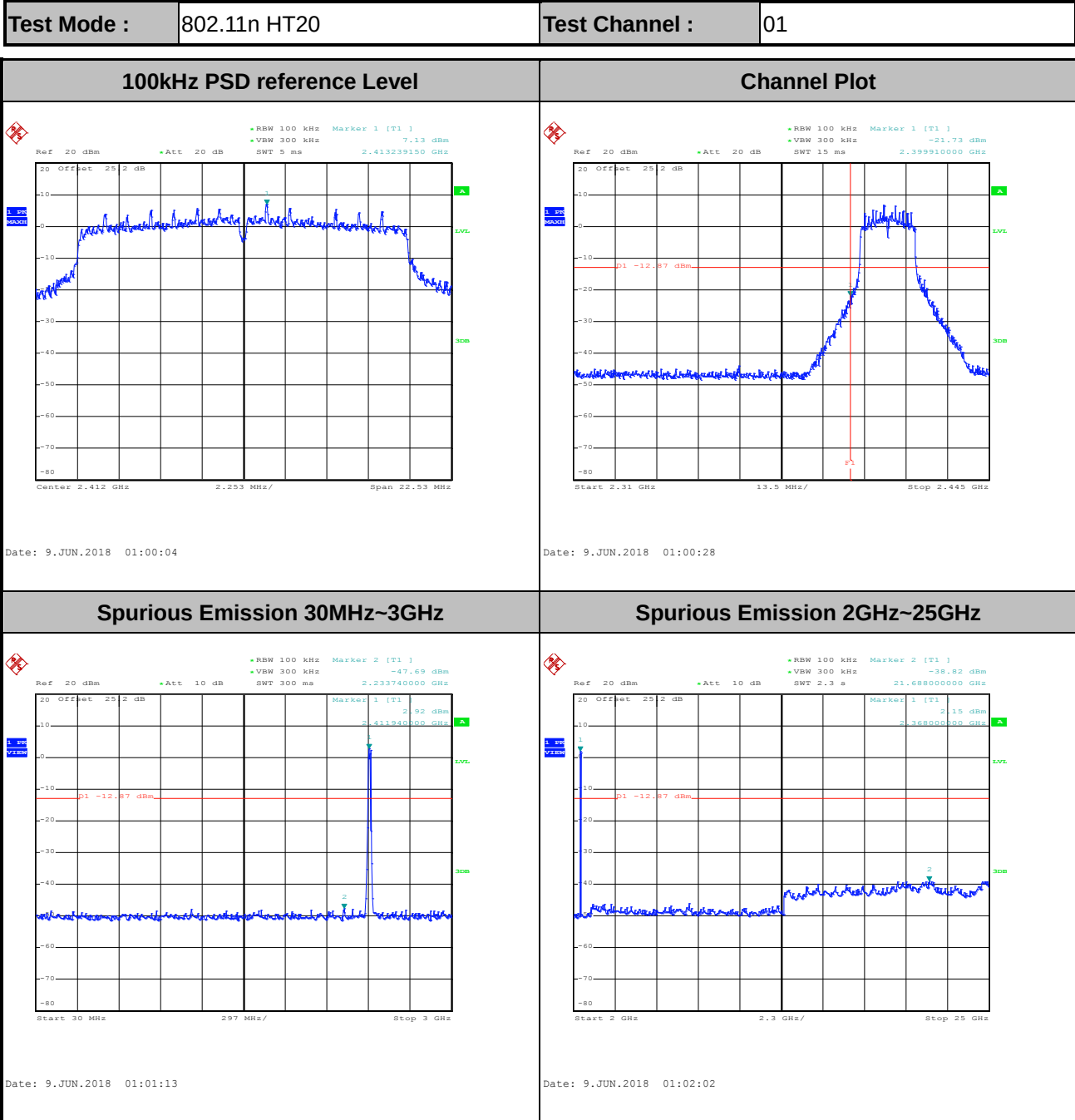


Date: 24.JUN.2018 18:47:36



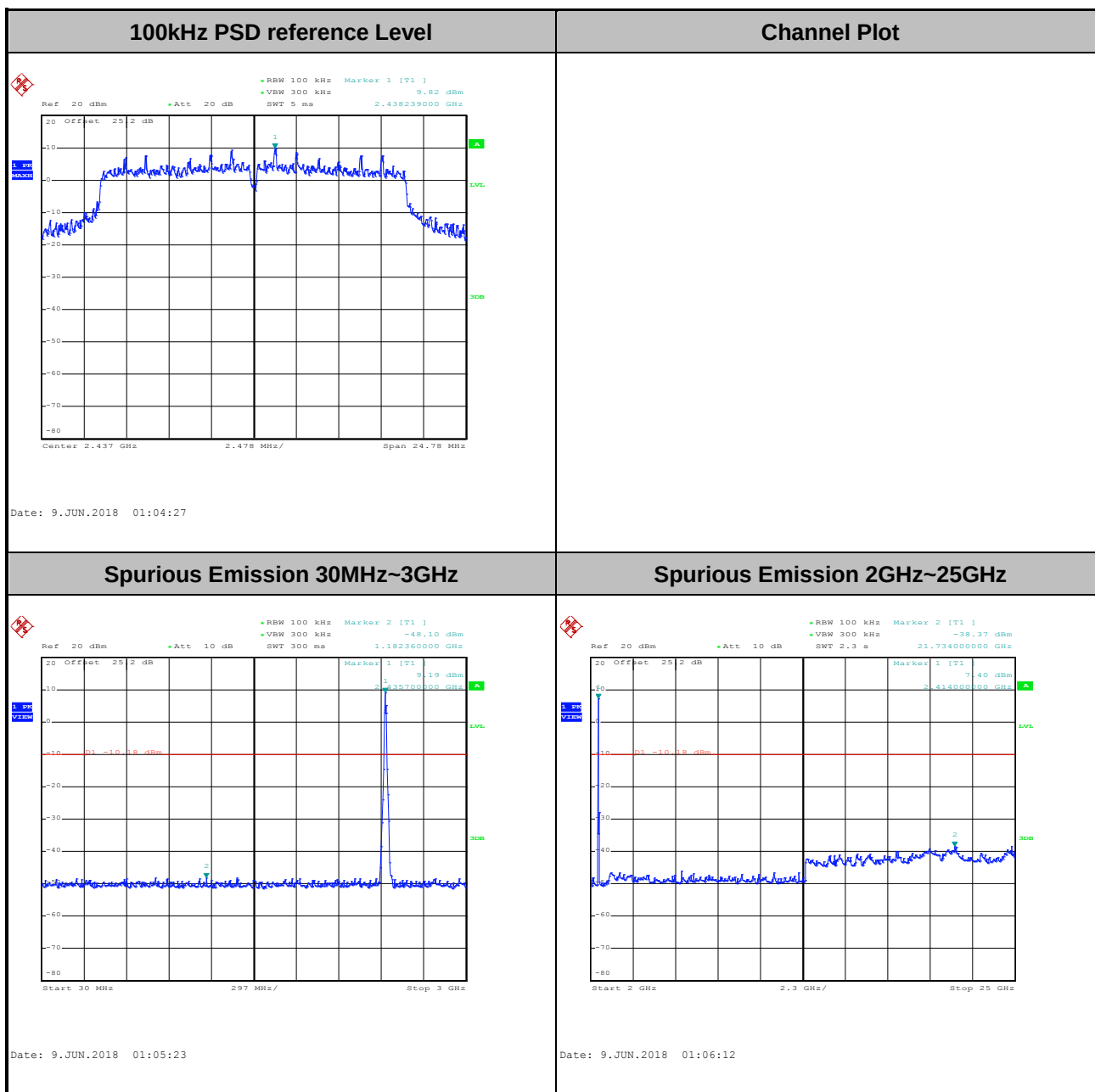
Test Mode :	802.11g	Test Channel :	13
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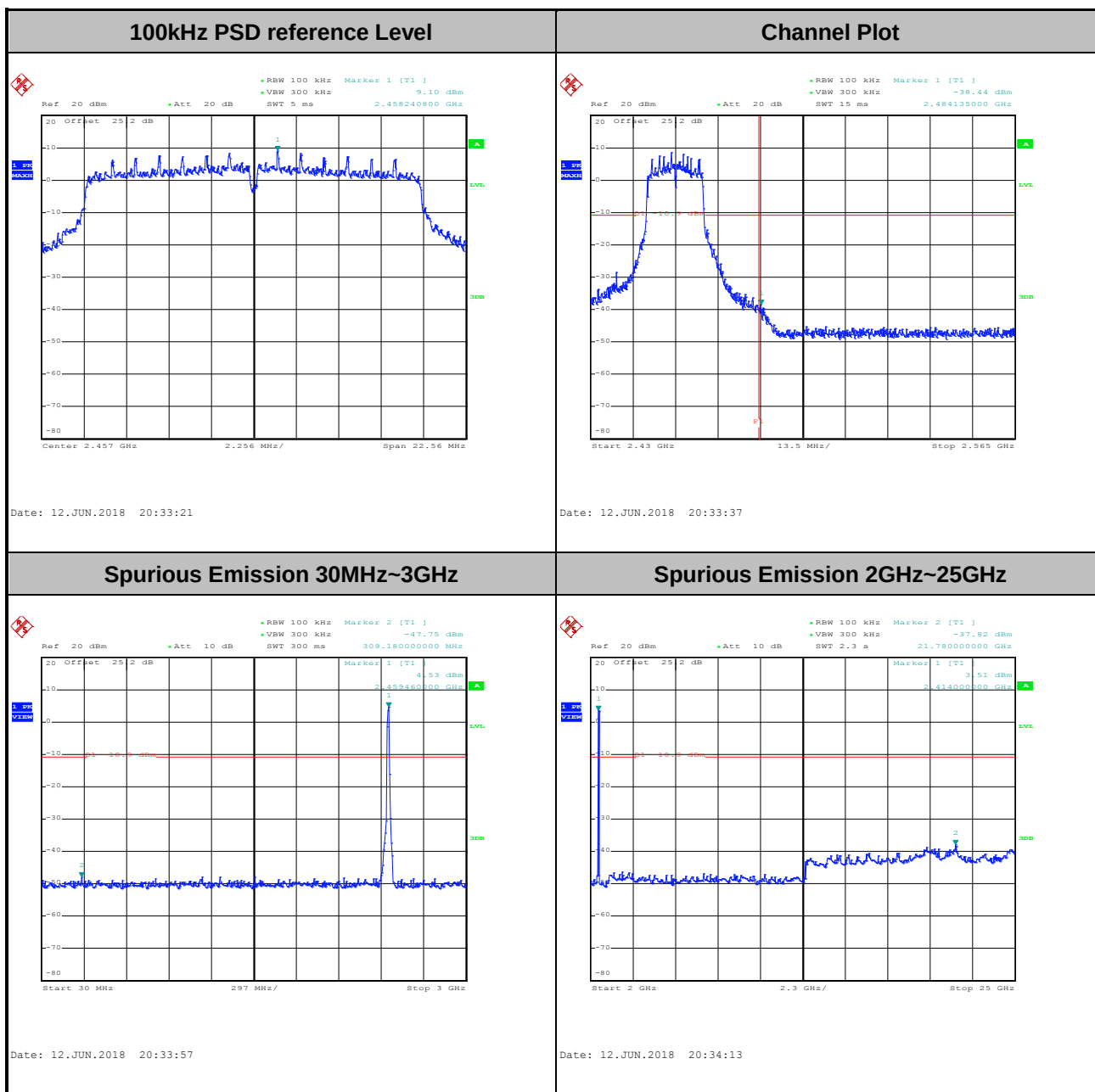


Test Mode :	802.11n HT20	Test Channel :	06
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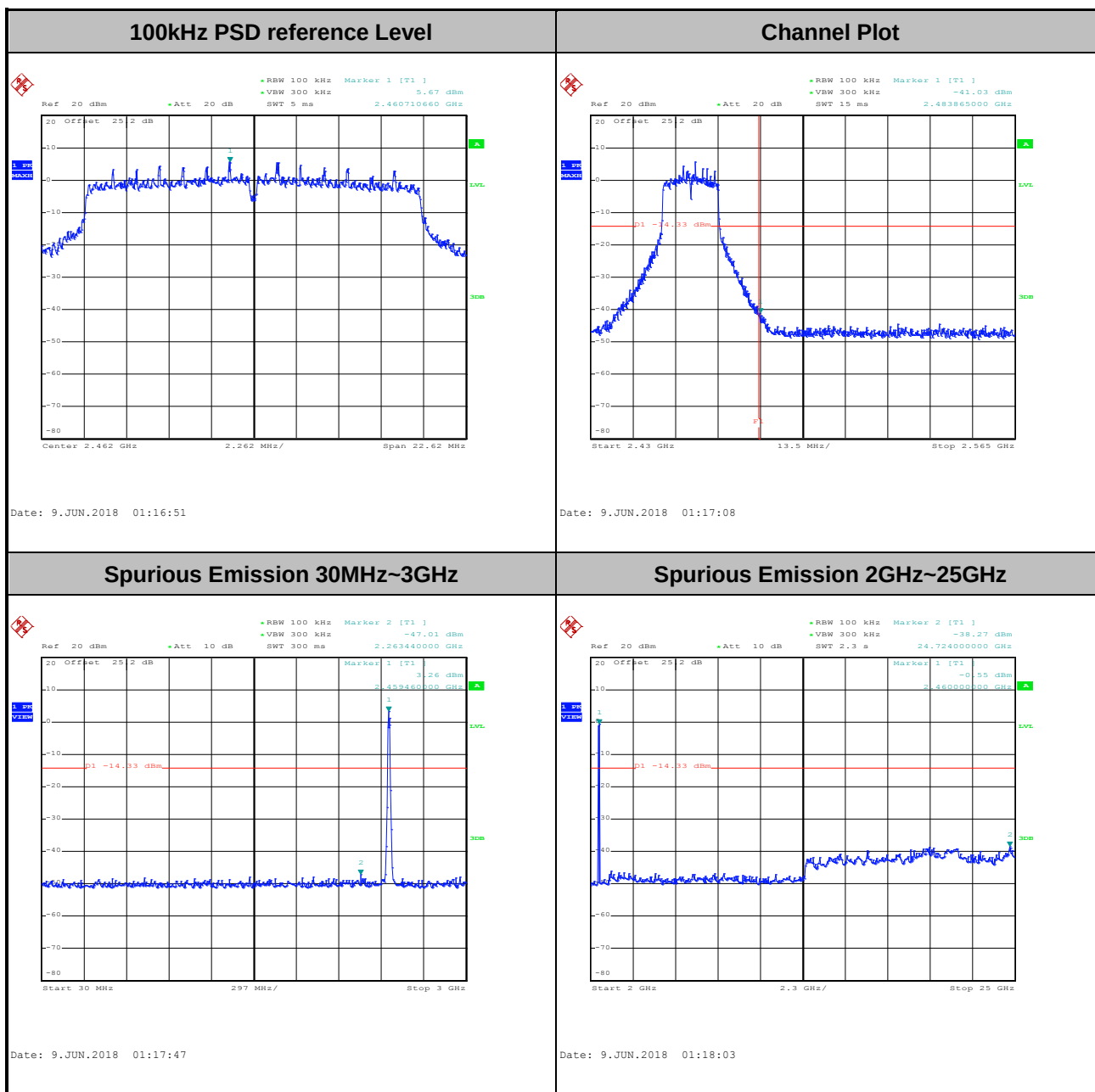


Test Mode :	802.11n HT20	Test Channel :	10
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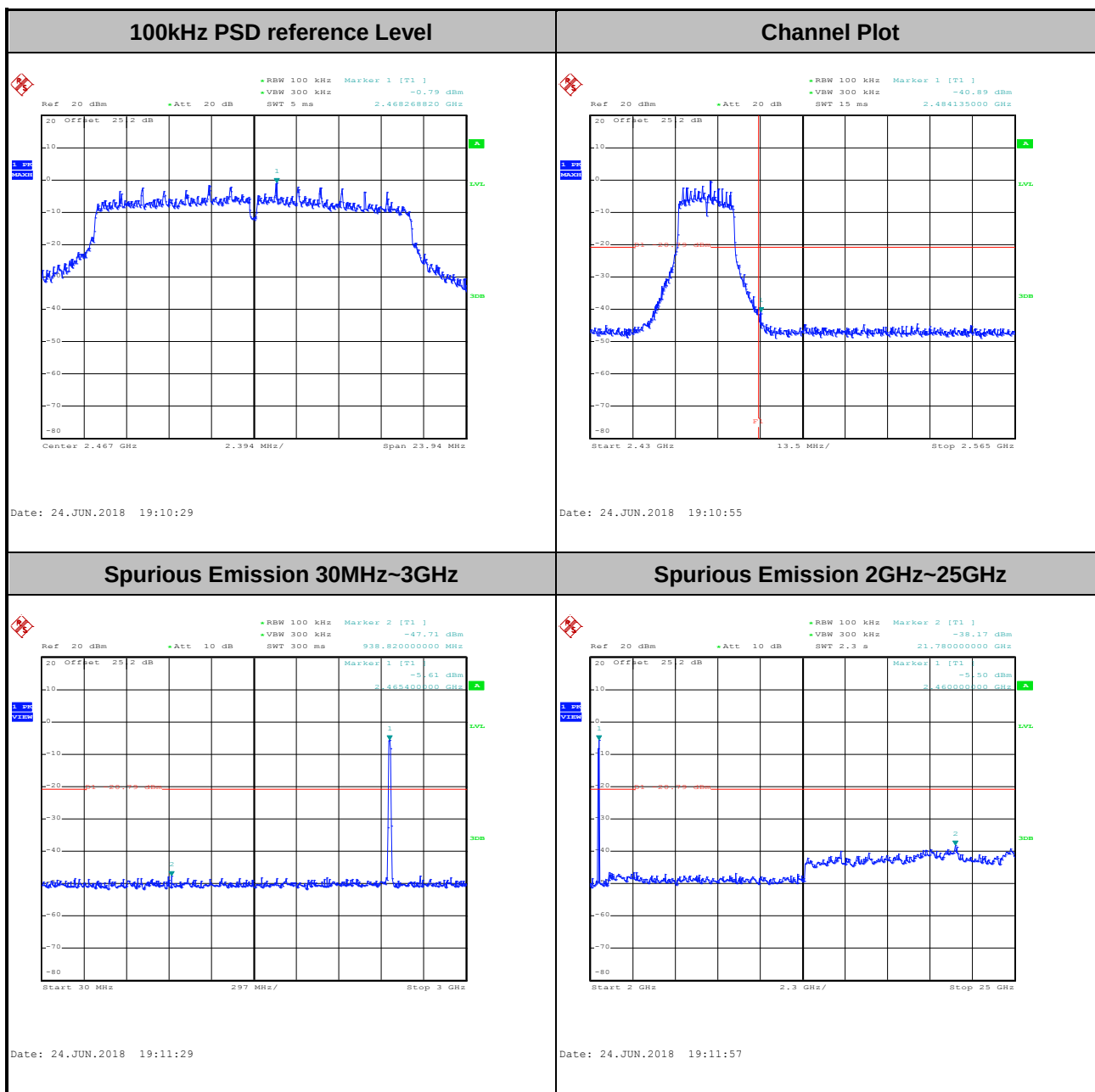


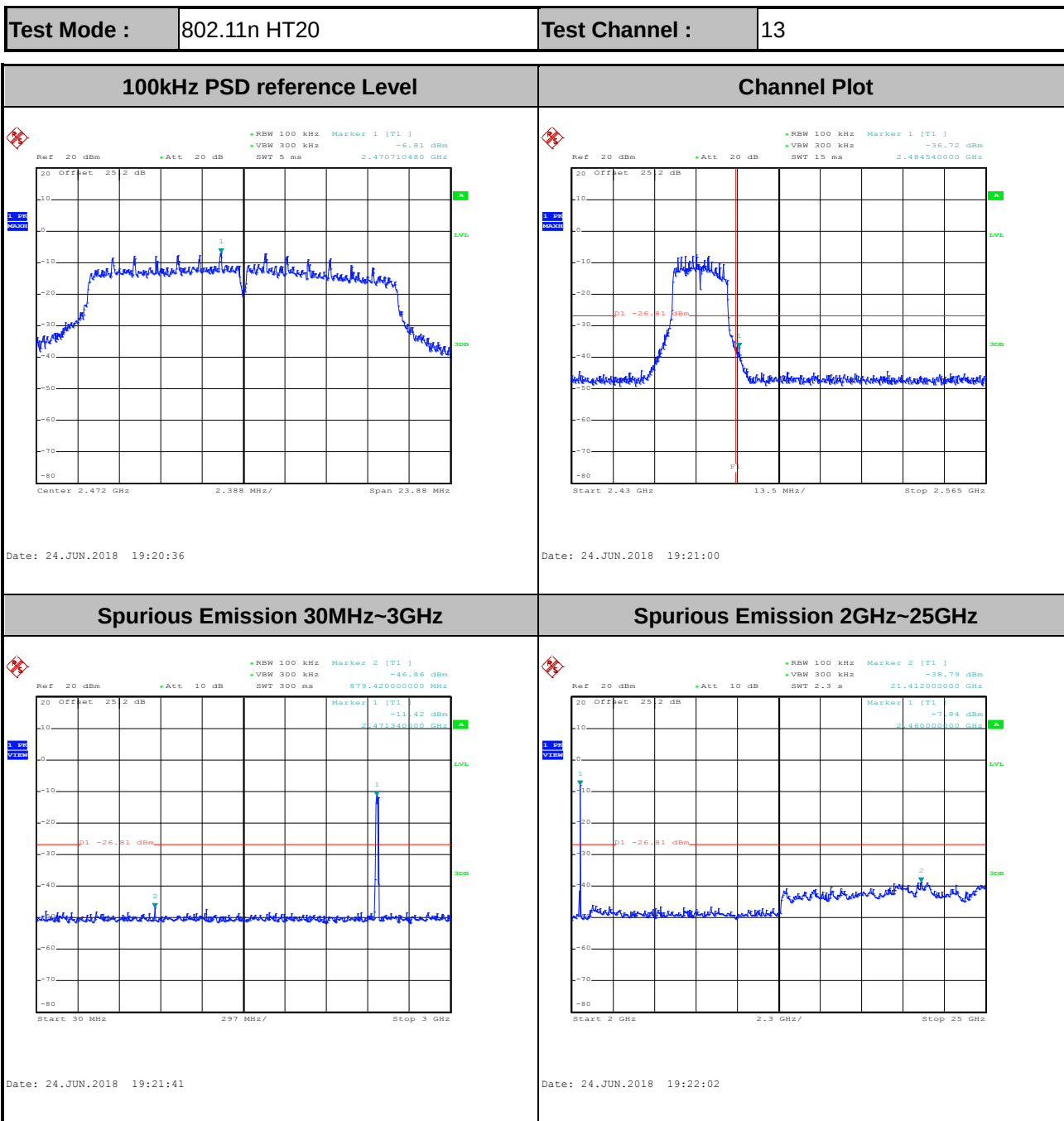
Test Mode :	802.11n HT20	Test Channel :	11
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Test Mode :	802.11n HT20	Test Channel :	12
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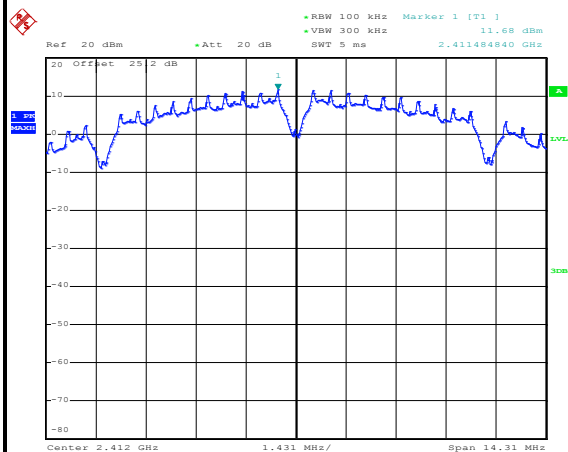




Number of TX = 2, Ant. 2 (Measured)

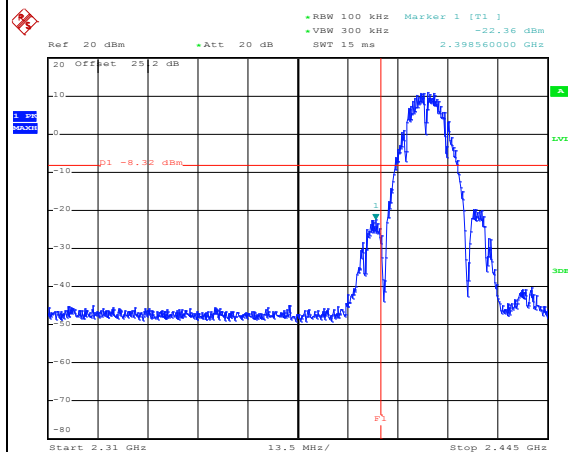
Test Mode :	802.11b	Test Channel :	01
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100kHz PSD reference Level



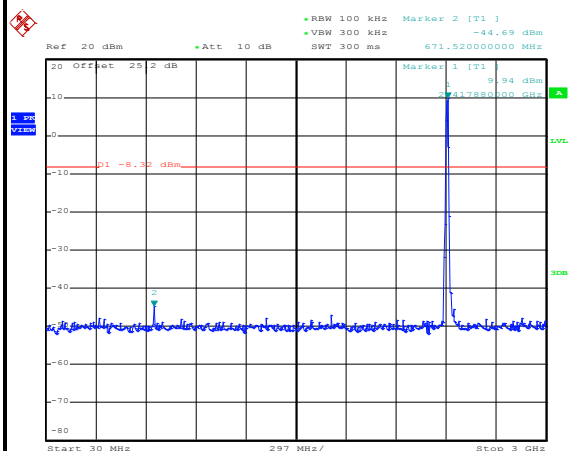
Date: 8.JUN.2018 23:51:26

Channel Plot



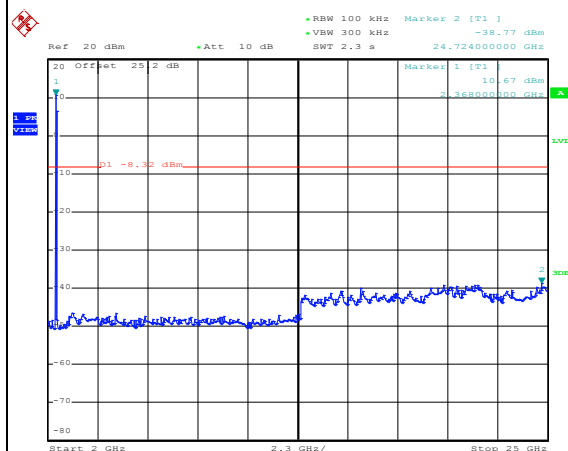
Date: 8.JUN.2018 23:51:40

Spurious Emission 30MHz~3GHz



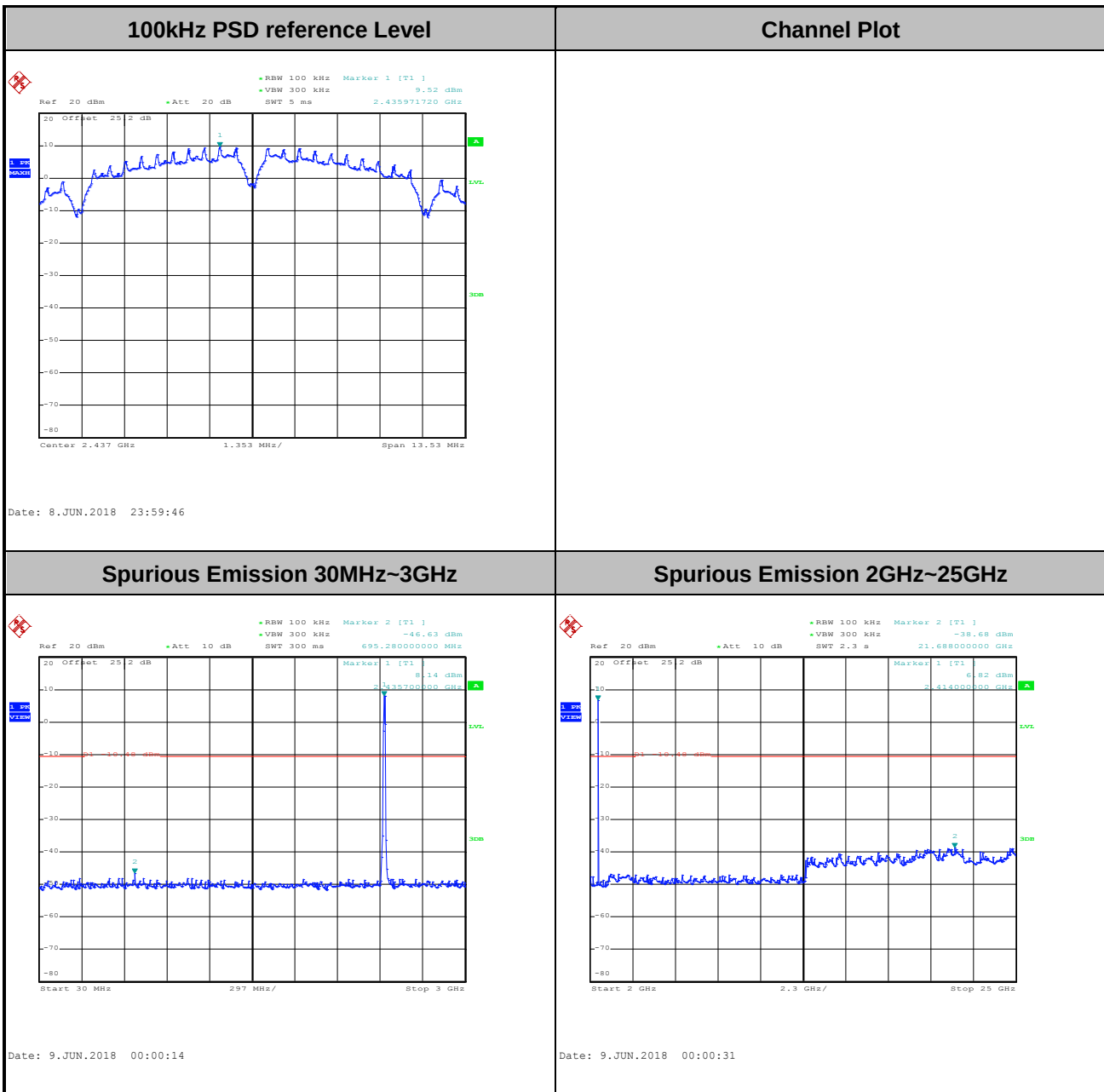
Date: 8.JUN.2018 23:52:08

Spurious Emission 2GHz~25GHz



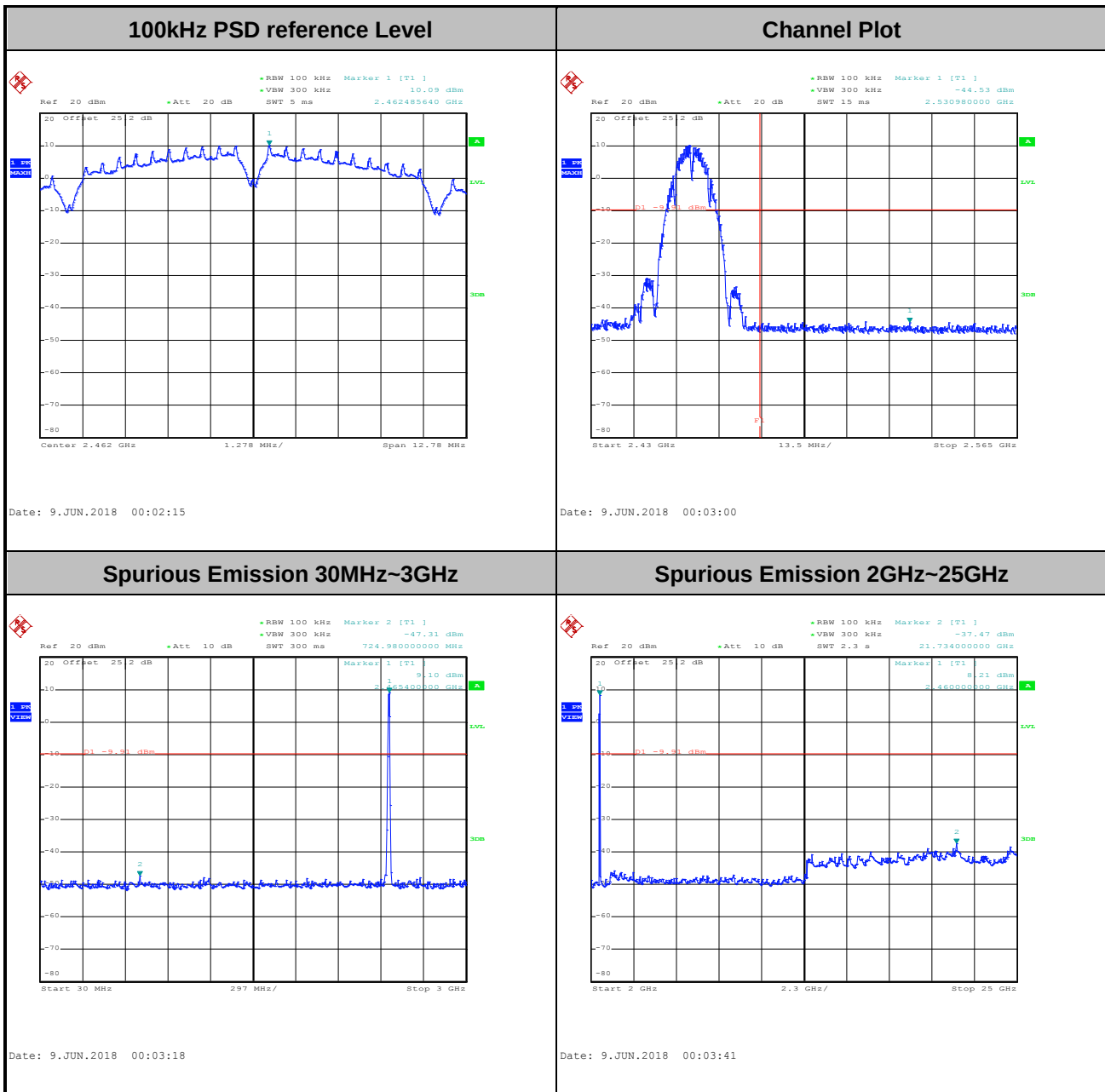
Date: 8.JUN.2018 23:52:27

Test Mode :	802.11b	Test Channel :	06
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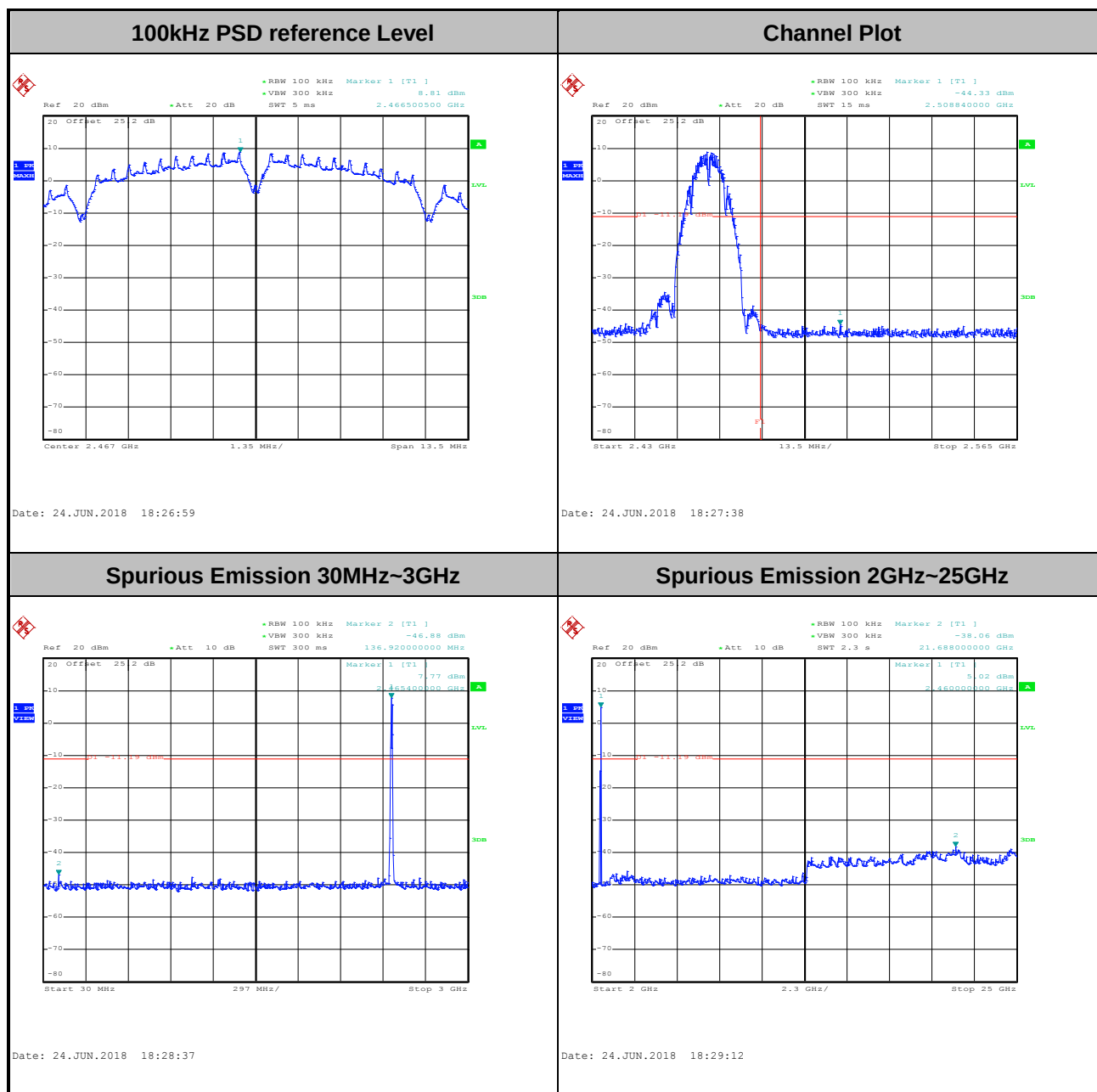


Test Mode :	802.11b	Test Channel :	11
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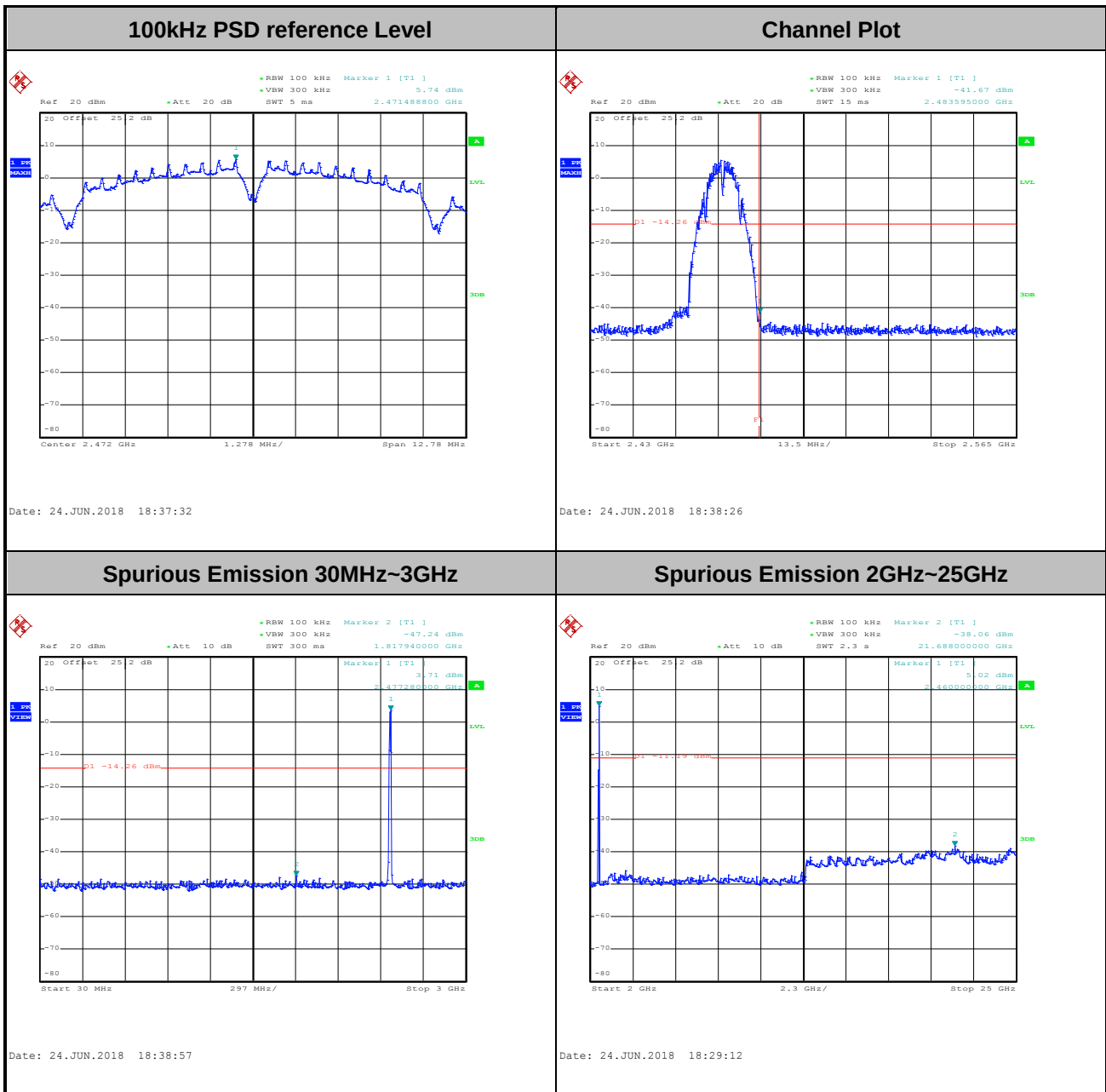


Test Mode :	802.11b	Test Channel :	12
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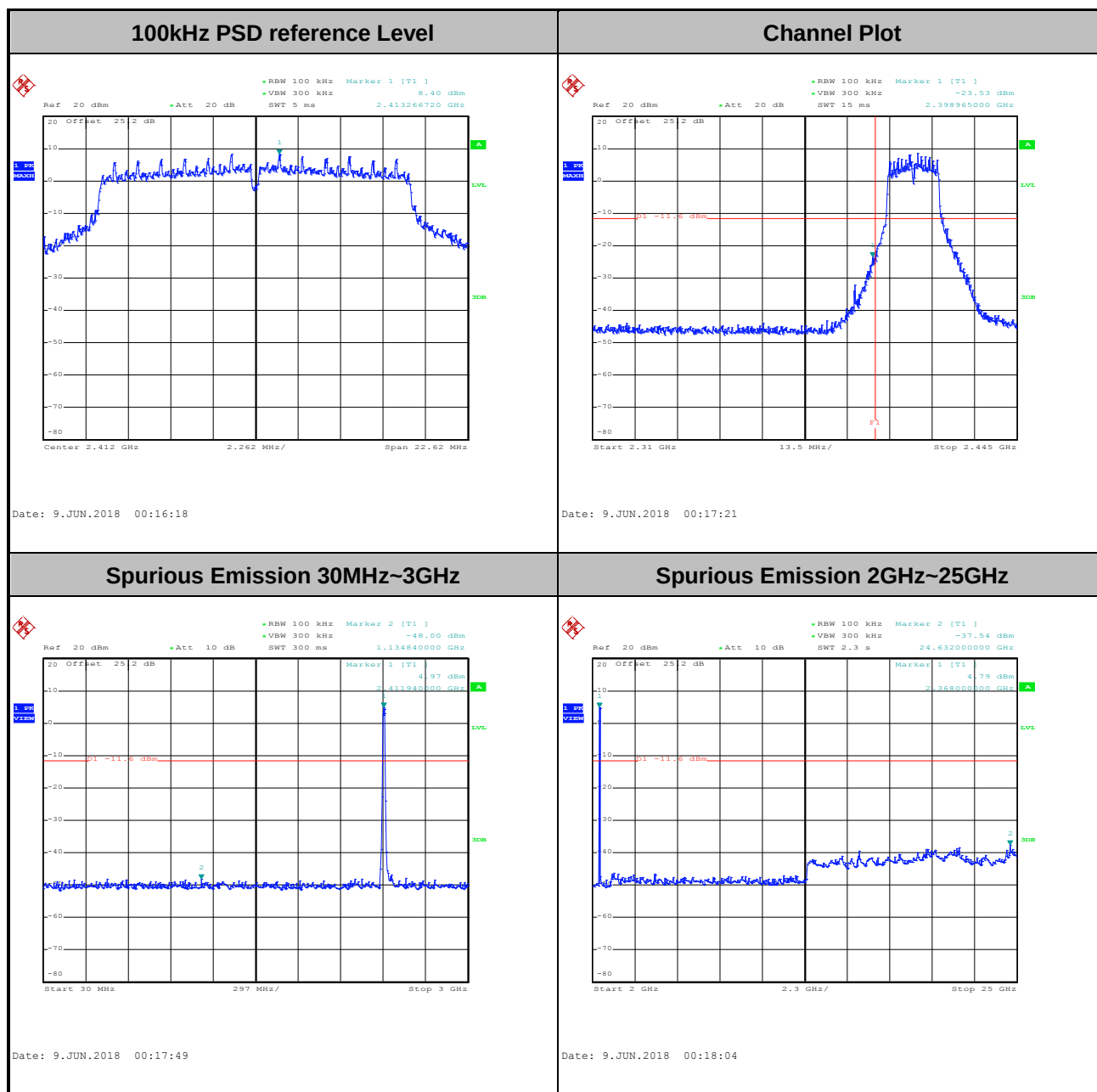


Test Mode :	802.11b	Test Channel :	13
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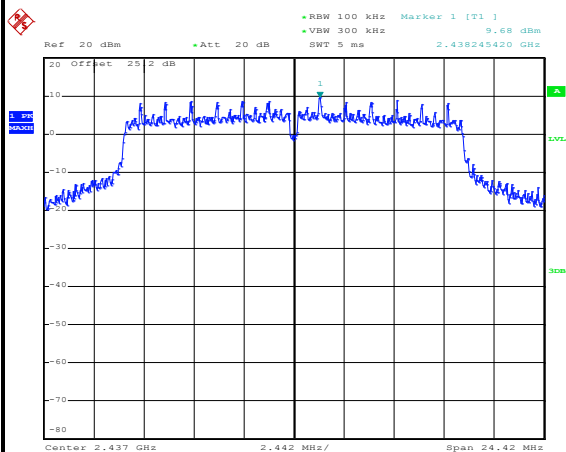
Test Mode :	802.11g	Test Channel :	01
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Test Mode :	802.11g	Test Channel :	06
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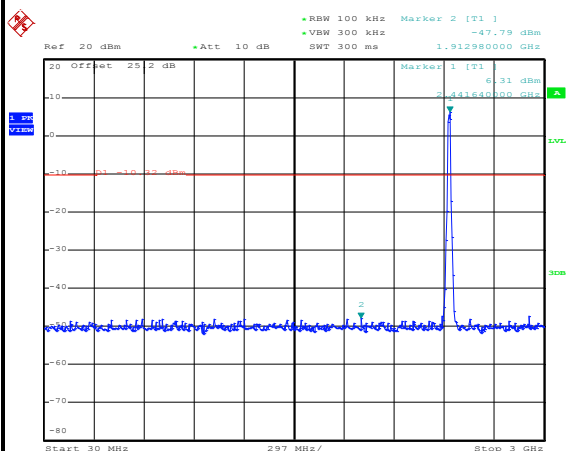
100kHz PSD reference Level



Date: 9.JUN.2018 00:20:25

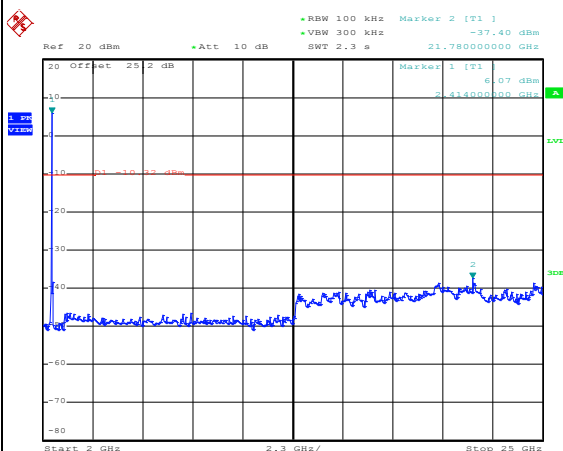
Channel Plot

Spurious Emission 30MHz~3GHz



Date: 9.JUN.2018 00:21:24

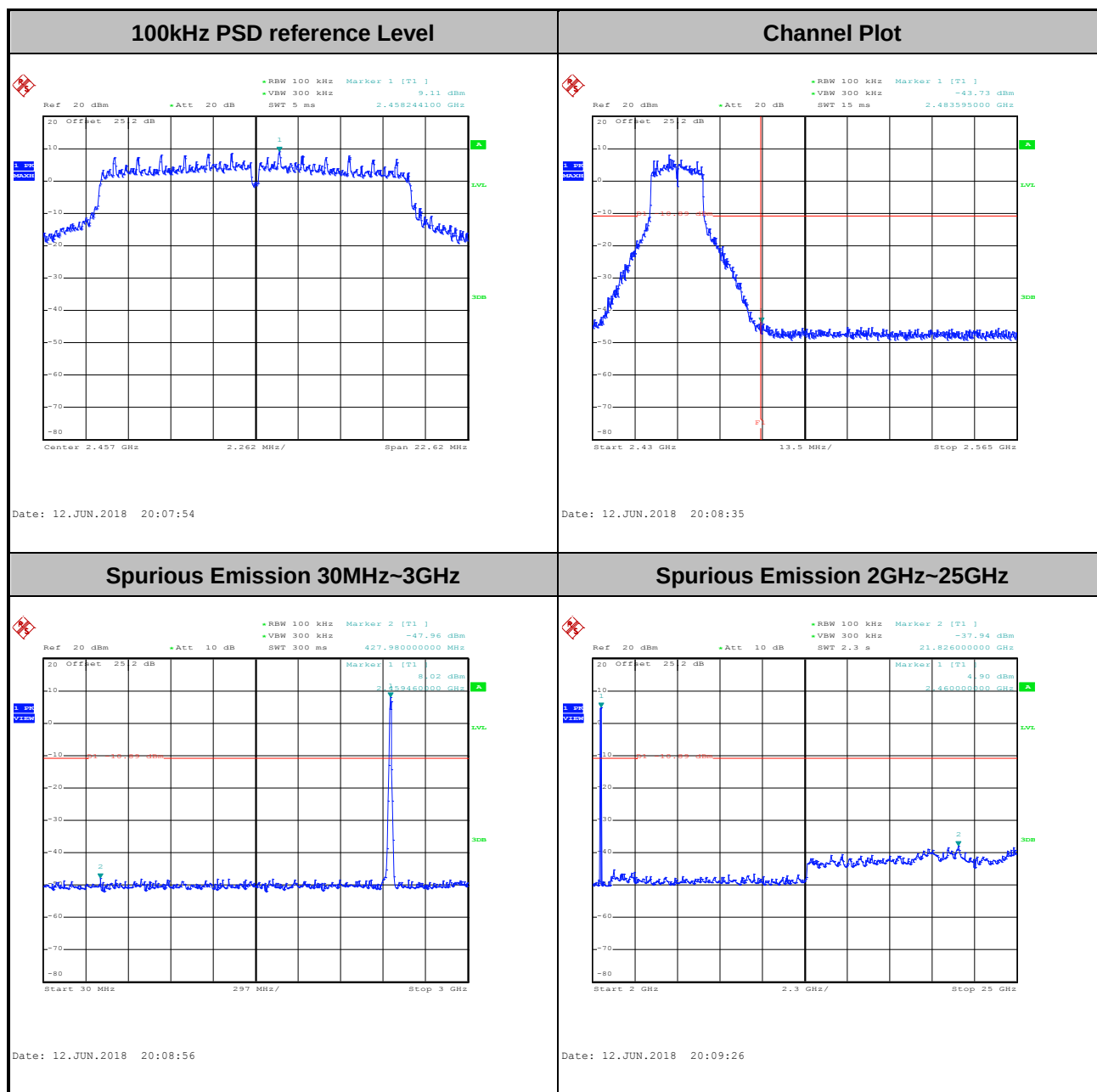
Spurious Emission 2GHz~25GHz



Date: 9.JUN.2018 00:22:01

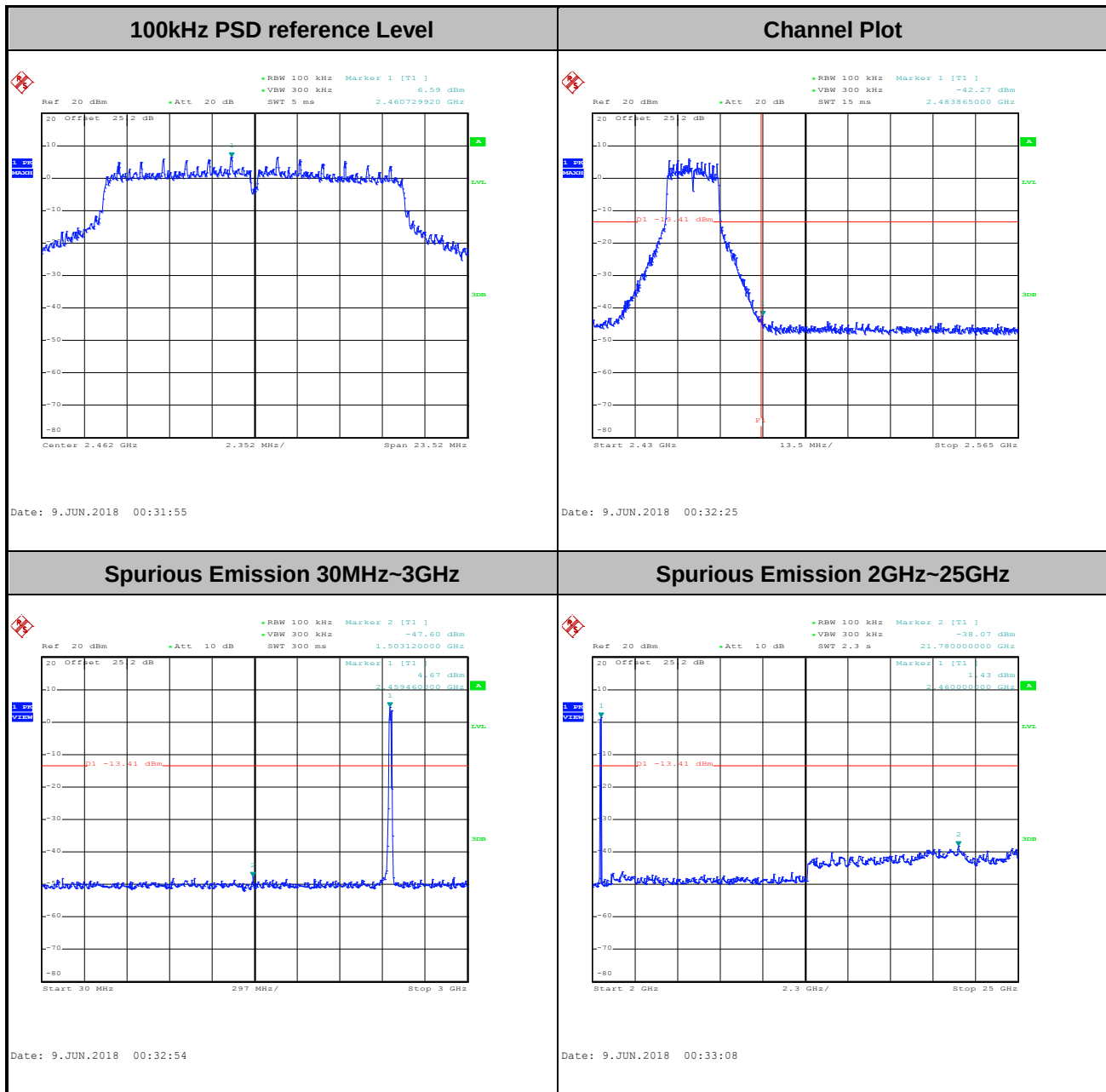


Test Mode :	802.11g	Test Channel :	10
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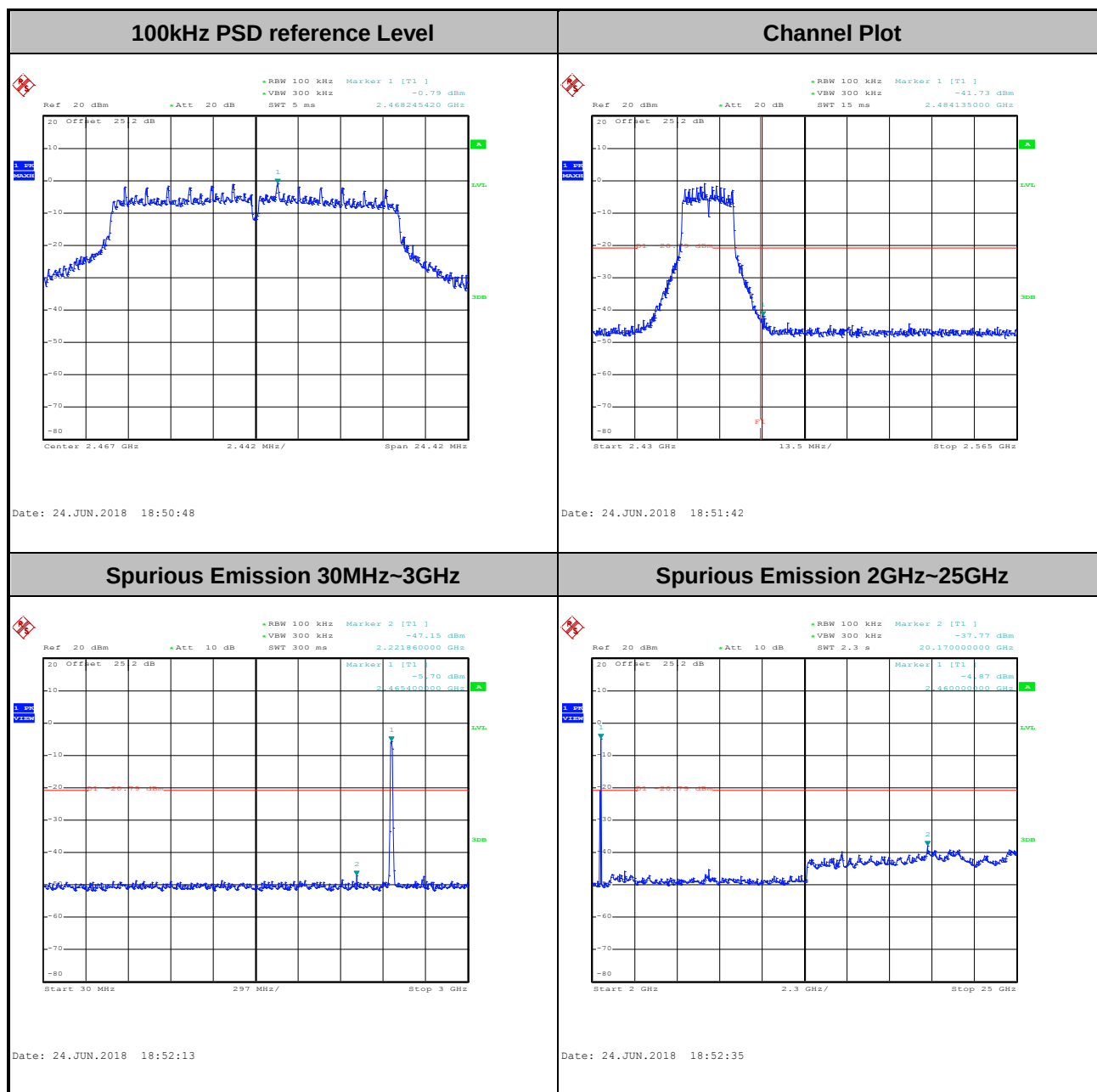


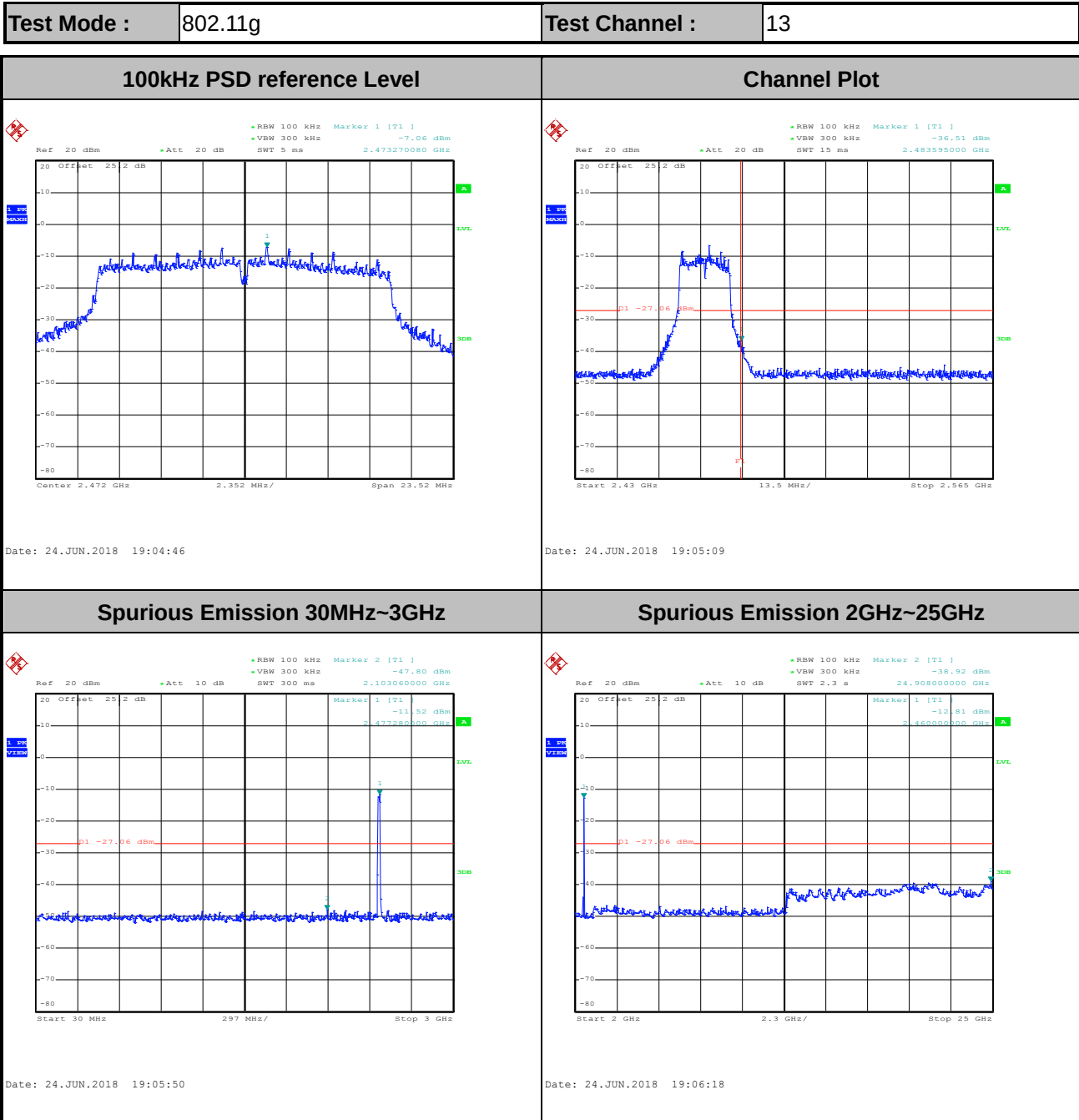
Test Mode :	802.11g	Test Channel :	11
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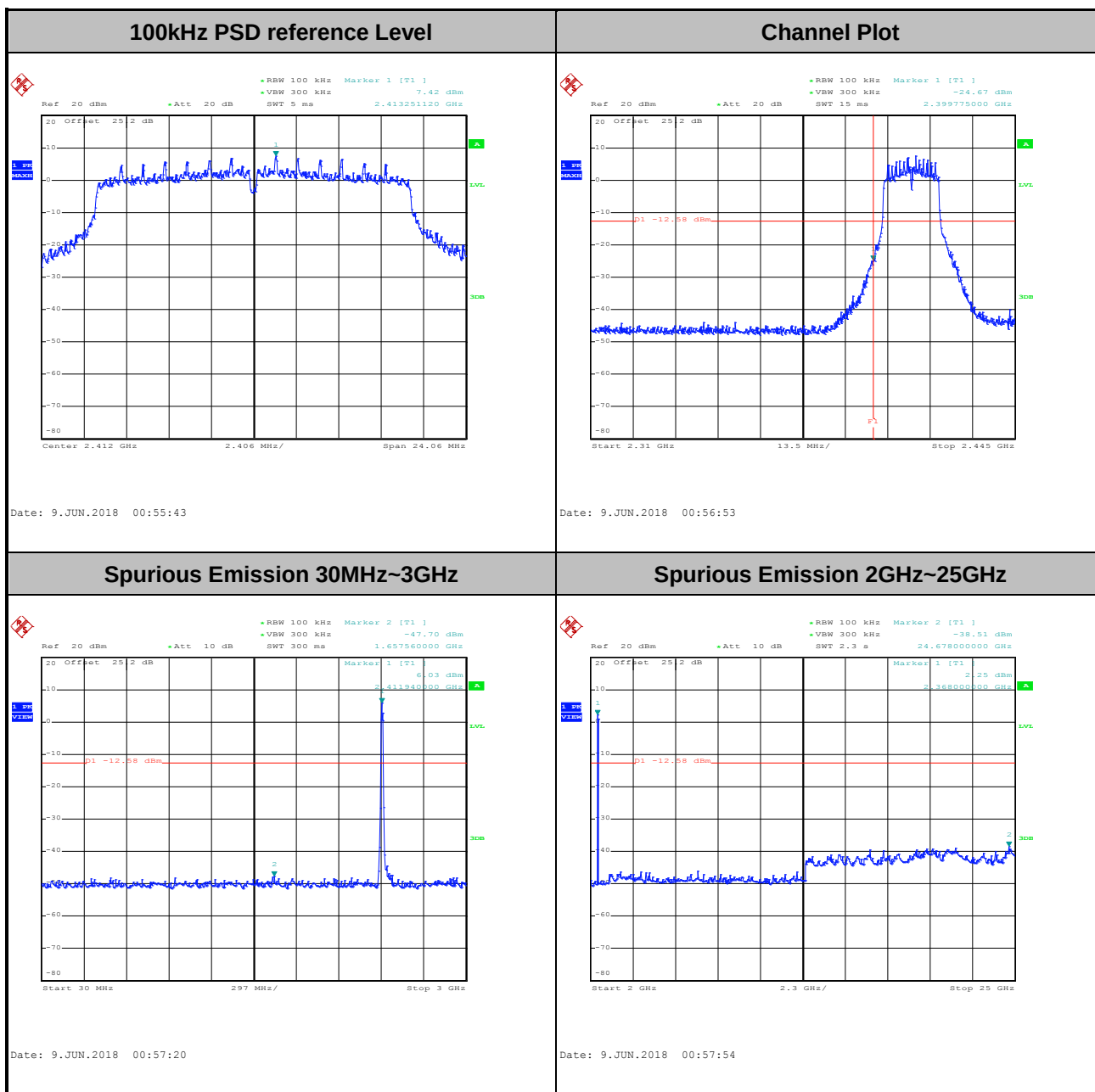
Test Mode :	802.11g	Test Channel :	12
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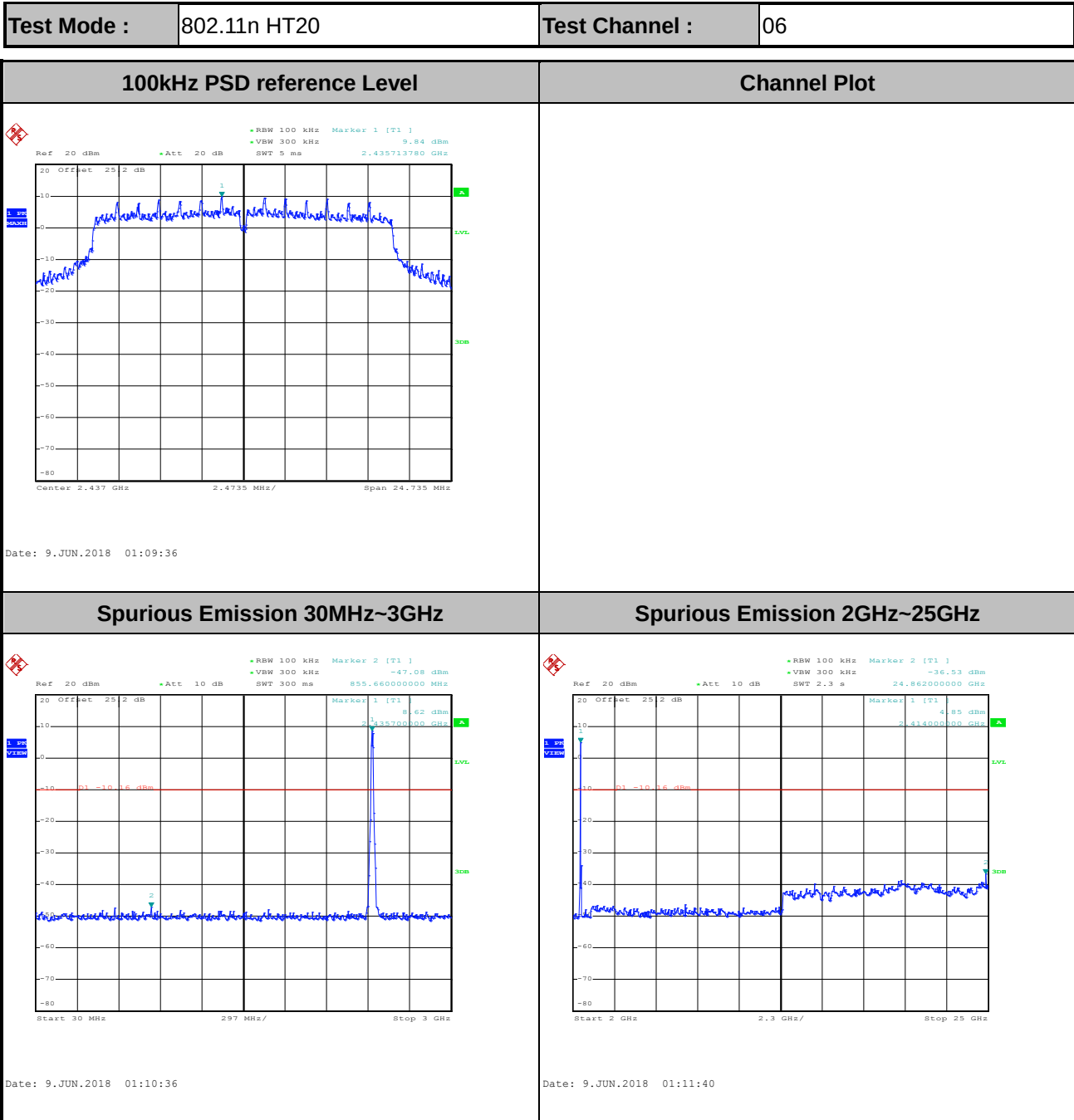


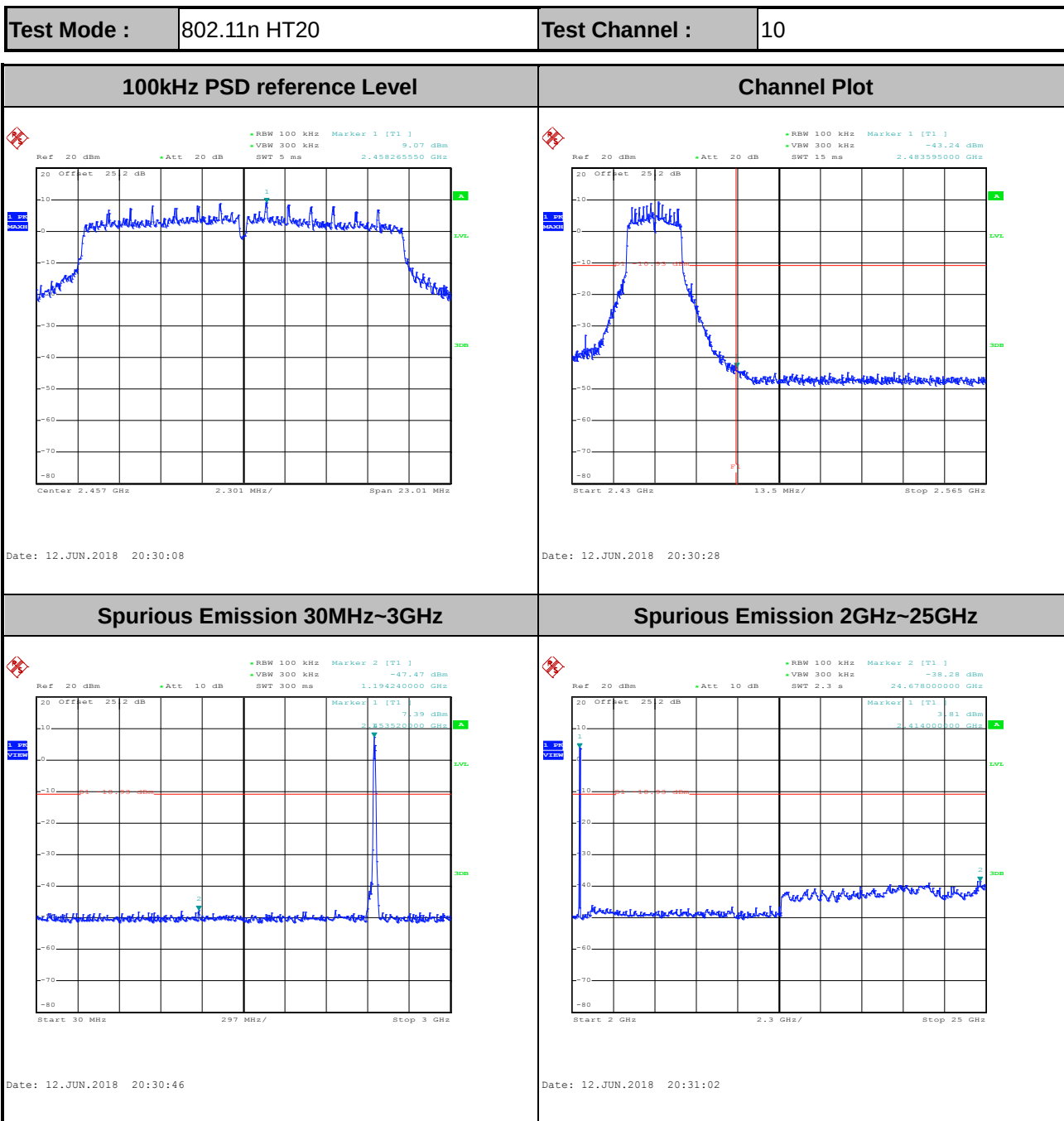


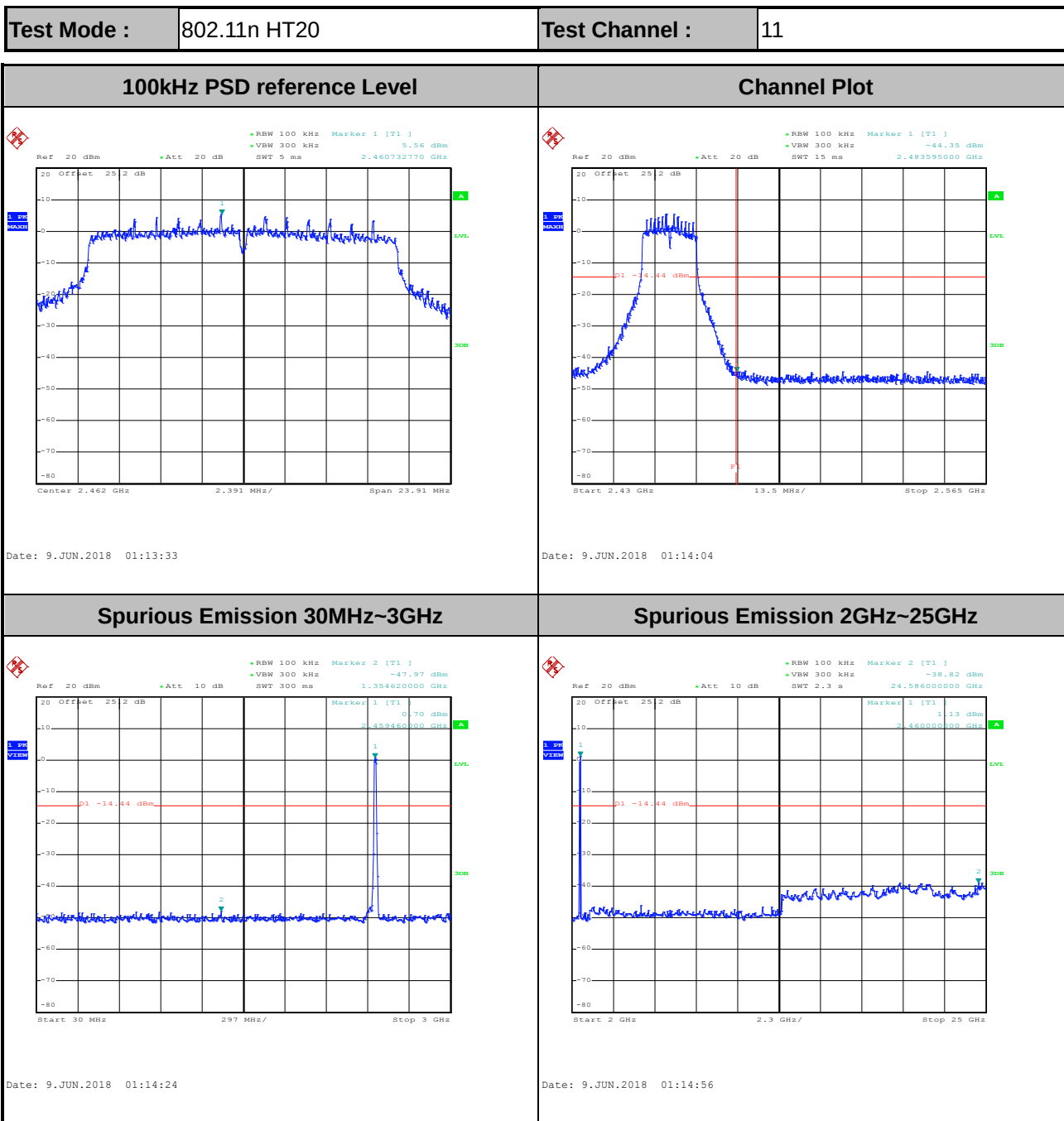


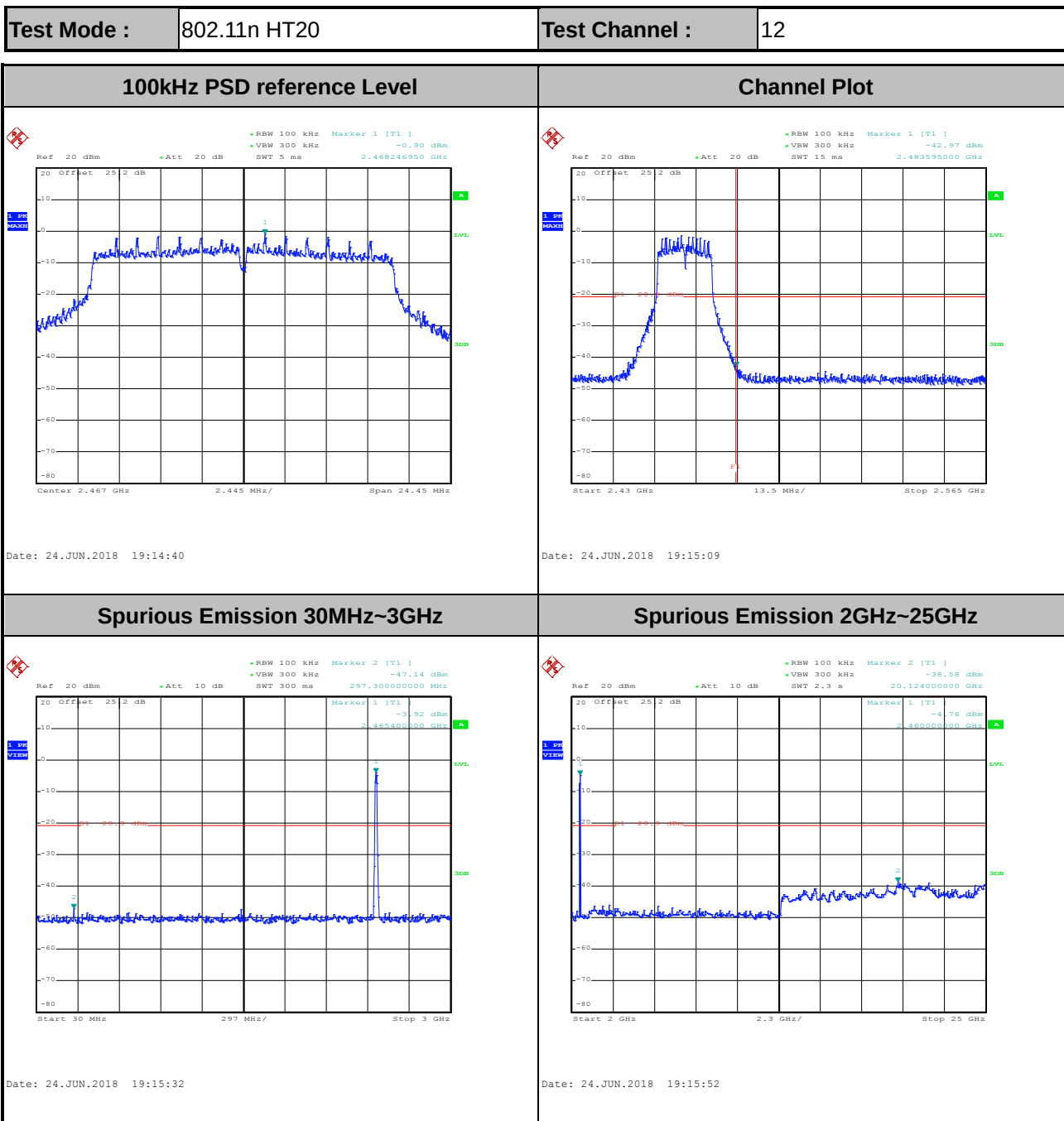
Test Mode :	802.11n HT20	Test Channel :	01
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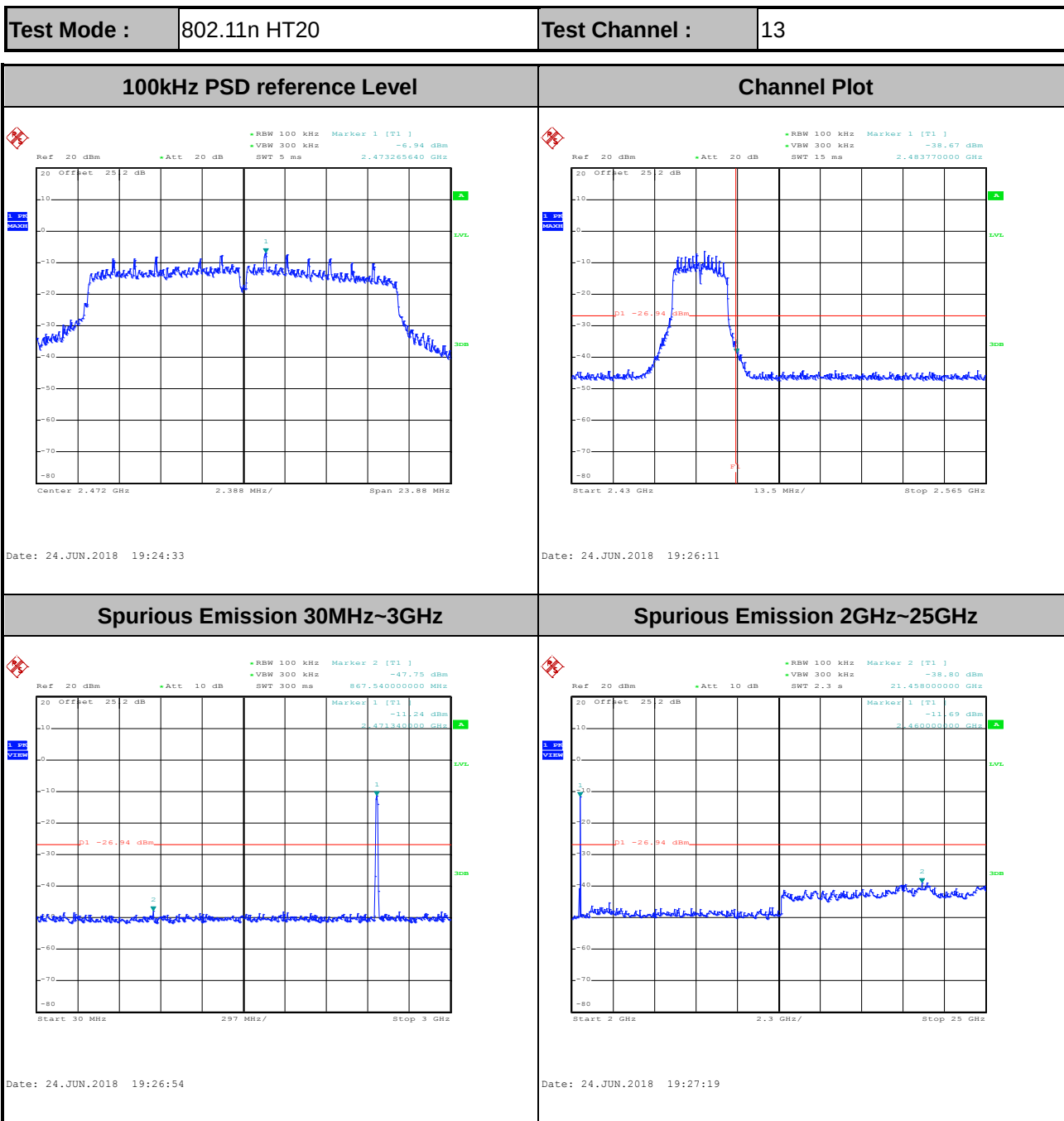












3.5 Radiated Band Edges and Spurious Emission Measurement

3.5.1 Limit of Radiated band edge and Spurious Emission Measurement

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

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

3.5.2 Measuring Instruments

See list of measuring equipment of this test report.

3.5.3 Test Procedures

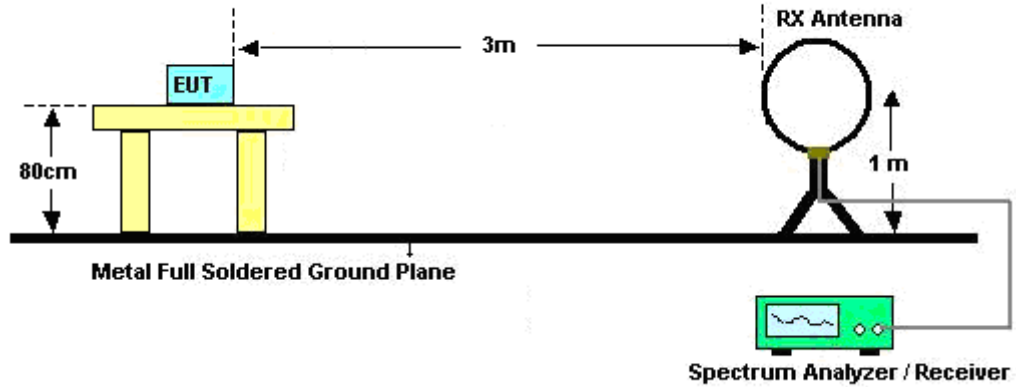
1. The testing follows FCC KDB Publication No. 558074 D01 DTS Meas. Guidance v04.
2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test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

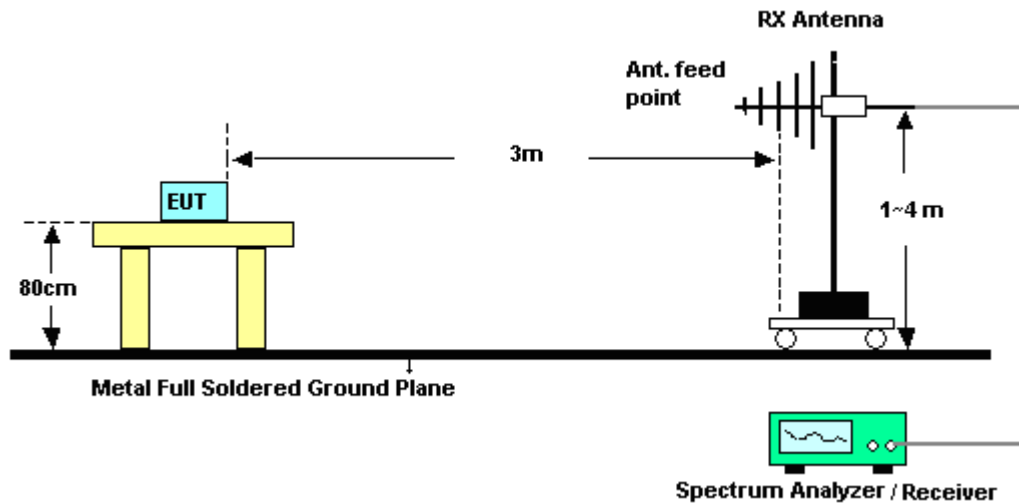
 - VBW = 10 Hz, when duty cycle is no less than 98 percent.
 - VBW $\geq 1/T$, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.

3.5.4 Test Setup

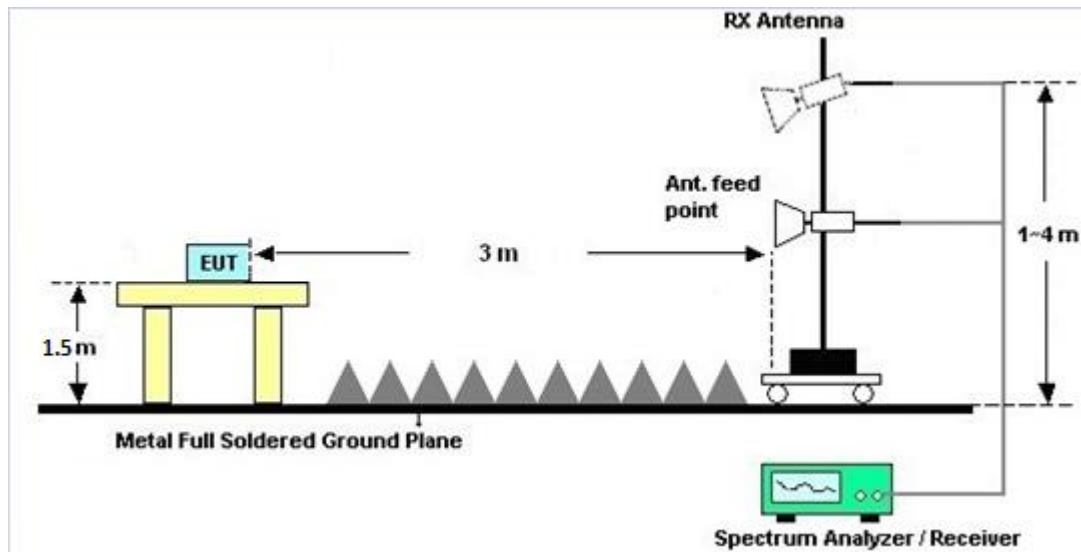
For radiated emissions below 30MHz



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.

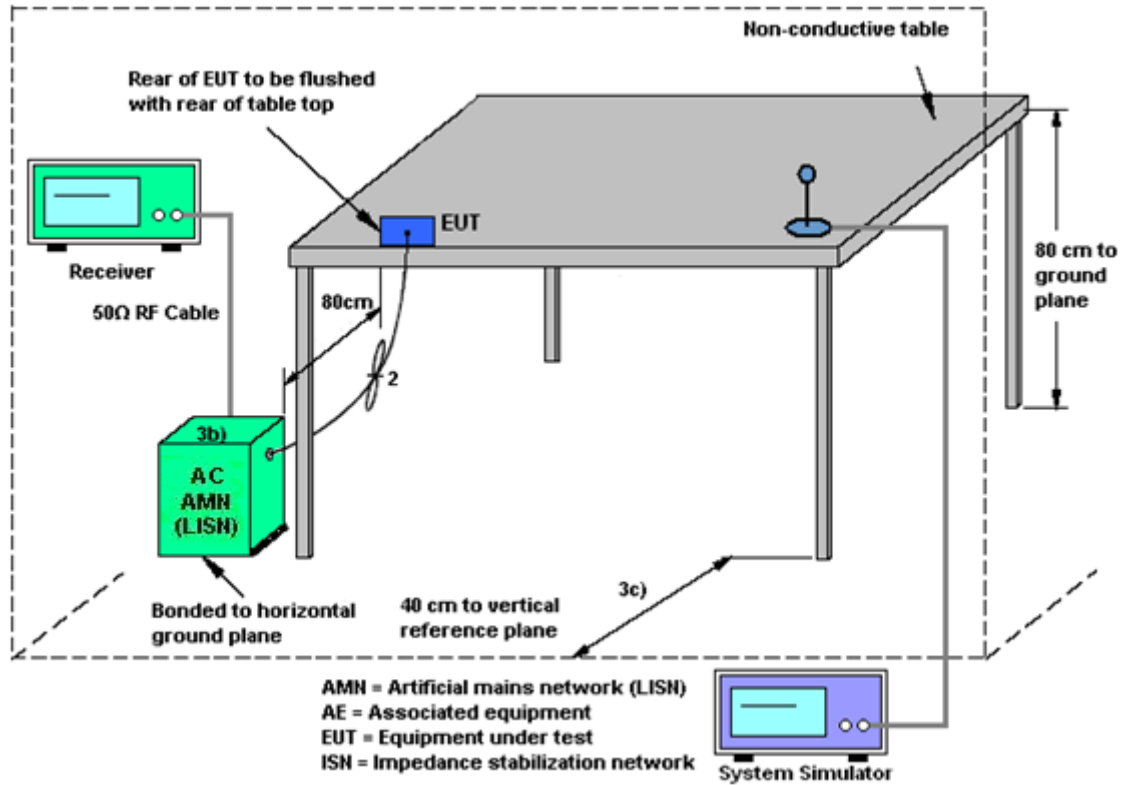
3.6.2 Measuring Instruments

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 for Power (dBi)	DG for PSD (dBi)	Power Limit Reduction (dB)	PSD Limit Reduction (dB)
	Ant. 1 (dBi)	Ant. 2 (dBi)				
2.4 GHz	-2.38	-7.38	-2.38	-1.51	0.00	0.00

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

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



4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Power Meter	Anritsu	ML2495A	1240001	N/A	Sep. 07, 2017	May 29, 2018~ Jun. 24, 2018	Sep. 06, 2018	Conducted (TH05-HY)
Power Sensor	Anritsu	MA2411B	1207349	300MHz~40GHz z	Sep. 07, 2017	May 29, 2018~ Jun. 24, 2018	Sep. 06, 2018	Conducted (TH05-HY)
Spectrum Analyzer	Rohde & Schwarz	FSP40	100055	9kHz~40GHz	Jun. 20, 2017	May 29, 2018~ Jun. 13, 2018	Jun. 19, 2018	Conducted (TH05-HY)
Spectrum Analyzer	Rohde & Schwarz	FSP40	100057	9kHz~40GHz	Nov. 21, 2017	Jun. 24, 2018	Nov. 20, 2018	Conducted (TH05-HY)
Switch Box & RF Cable	Burgeon	ETF-058	EC130048 4	N/A	Mar. 01, 2018	May 29, 2018~ Jun. 24, 2018	Feb. 28, 2019	Conducted (TH05-HY)
Hygrometer	TECEPIL	HTC-1	2	N/A	Mar. 06, 2018	May 29, 2018~ Jun. 24, 2018	Mar. 05, 2019	Conducted (TH05-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY842095 21	1GHz~26GHz	Dec. 01, 2017	May 29, 2018~ Jun. 24, 2018	Nov. 30, 2018	Conducted (TH05-HY)
AC Power Source	ChainTek	APC-1000W	N/A	N/A	N/A	Apr. 10, 2018	N/A	Conduction (CO05-HY)
EMI Test Receiver	Rohde & Schwarz	ESR3	102388	3.6GHz	Dec. 08, 2017	Apr. 10, 2018	Dec. 07, 2018	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100080	9kHz~30MHz	Nov. 30, 2017	Apr. 10, 2018	Nov. 29, 2018	Conduction (CO05-HY)
LF Cable	HUBER + SUHNER	RG-214/U	LF01	N/A	Jan. 03, 2018	Apr. 10, 2018	Jan. 02, 2019	Conduction (CO05-HY)
Test Software	Rohde & Schwarz	EMC32 V10.30	N/A	N/A	N/A	Apr. 10, 2018	N/A	Conduction (CO05-HY)
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100851	N/A	Jan. 03, 2018	Apr. 10, 2018	Jan. 02, 2019	Conduction (CO05-HY)
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100488	9 kHz~30 MHz	Nov. 23, 2017	Jun. 06, 2018~ Jun. 12, 2018	Nov. 22, 2018	Radiation (03CH11-HY)
Bilog Antenna	TESEQ	CBL 6111D&N-6-0 6	35414&AT- N0602	30MHz~1GHz	Oct. 14, 2017	Jun. 06, 2018~ Jun. 12, 2018	Oct. 13, 2018	Radiation (03CH11-HY)
Horn Antenna	SCHWARZBE CK	BBHA 9120 D	9120D-132 6	1GHz ~ 18GHz	Oct. 16, 2017	Jun. 06, 2018~ Jun. 12, 2018	Oct. 15, 2018	Radiation (03CH11-HY)
SHF-EHF Horn Antenna	SCHWARZBE CK	BBHA 9170	BBHA9170 584	18GHz- 40GHz	Nov. 27, 2017	Jun. 06, 2018~ Jun. 12, 2018	Nov. 26, 2018	Radiation (03CH11-HY)
Spectrum Analyzer	Keysight	N9010A	MY542004 86	10Hz ~ 44GHz	Oct. 19, 2017	Jun. 06, 2018~ Jun. 12, 2018	Oct. 18, 2018	Radiation (03CH11-HY)
Amplifier	SONOMA	310N	187312	9kHz~1GHz	Jan. 16, 2018	Jun. 06, 2018~ Jun. 12, 2018	Jan. 15, 2019	Radiation (03CH11-HY)
Preamplifier	Jet-Power	JPA0118-55-3 03K	171000180 0054002	1GHz~18GHz	Apr. 17, 2018	Jun. 06, 2018~ Jun. 12, 2018	Apr. 16, 2019	Radiation (03CH11-HY)
Preamplifier	Keysight	83017A	MY532700 80	1GHz~26.5GHz	Nov. 10, 2016	Jun. 06, 2018~ Jun. 12, 2018	Nov. 09, 2018	Radiation (03CH11-HY)
Amplifier	MITEQ	TTA1840-35- HG	1871923	18GHz~40GHz, VSWR : 2.5:1 max	Jul. 18, 2017	Jun. 06, 2018~ Jun. 12, 2018	Jul. 17, 2018	Radiation (03CH11-HY)



Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Hygrometer	TECPEL	DTN-303B	TP140325	N/A	Oct. 12, 2017	Jun. 06, 2018~ Jun. 12, 2018	Oct. 11, 2018	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY9837/4	9K-30M	Mar. 20, 2018	Jun. 06, 2018~ Jun. 12, 2018	Mar. 19, 2019	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY9837/4	30M-18G	Mar. 15, 2018	Jun. 06, 2018~ Jun. 12, 2018	Mar. 14, 2019	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	MY2589/2	30M-18G	Mar. 15, 2018	Jun. 06, 2018~ Jun. 12, 2018	Mar. 14, 2019	Radiation (03CH11-HY)
Filter	Wainwright	WHKX12-270 0-3000-18000 -60SS	SN3	2.7G High Pass	Sep. 18, 2017	Jun. 06, 2018~ Jun. 12, 2018	Sep. 17, 2018	Radiation (03CH11-HY)
Filter	Wainwright	WLK4-1000-1 530-8000-40S S	SN11	1G Low Pass	Sep. 18, 2017	Jun. 06, 2018~ Jun. 12, 2018	Sep. 17, 2018	Radiation (03CH11-HY)
Controller	EMEC	EM 1000	N/A	Control Turn table & Ant Mast	N/A	Jun. 06, 2018~ Jun. 12, 2018	N/A	Radiation (03CH11-HY)
Antenna Mast	EMEC	AM-BS-4500- B	N/A	1~4m	N/A	Jun. 06, 2018~ Jun. 12, 2018	N/A	Radiation (03CH11-HY)
Turn Table	EMEC	TT 2000	N/A	0~360 Degree	N/A	Jun. 06, 2018~ Jun. 12, 2018	N/A	Radiation (03CH11-HY)
Software	Audix	E3 6.2009-8-24	RK-00104 2	N/A	N/A	Jun. 06, 2018~ Jun. 12, 2018	N/A	Radiation (03CH11-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:	Eason Huang / Kai Liao / Tommy Lee	Temperature:	21~25	°C
Test Date:	2018/5/29 ~ 2018/6/24	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	14.55	15.10	8.04	9.54	0.50	Pass
11b	1Mbps	2	6	2437	14.40	14.05	9.04	9.02	0.50	Pass
11b	1Mbps	2	11	2462	14.30	14.25	8.04	8.52	0.50	Pass
11b	1Mbps	2	12	2467	14.00	14.05	8.56	9.00	0.50	Pass
11b	1Mbps	2	13	2472	13.75	13.70	8.52	8.52	0.50	Pass
11g	6Mbps	2	1	2412	17.75	17.55	15.08	15.08	0.50	Pass
11g	6Mbps	2	6	2437	18.85	18.00	15.52	16.28	0.50	Pass
11g	6Mbps	2	11	2462	17.70	17.60	15.30	15.68	0.50	Pass
11g	6Mbps	2	12	2467	16.70	16.75	15.68	16.28	0.50	Pass
11g	6Mbps	2	13	2472	16.65	16.65	15.68	15.68	0.50	Pass
HT20	MCS0	2	1	2412	18.70	18.45	15.02	16.04	0.50	Pass
HT20	MCS0	2	6	2437	20.20	19.10	16.52	16.49	0.50	Pass
HT20	MCS0	2	11	2462	18.65	18.70	15.08	15.94	0.50	Pass
HT20	MCS0	2	12	2467	17.80	17.85	15.96	16.30	0.50	Pass
HT20	MCS0	2	13	2472	17.85	17.85	15.92	15.92	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	21.83	22.08	-	30.00	30.00	-2.38	-7.38	19.45	14.70	36.00	36.00	Pass
11b	1Mbps	1	6	2437	20.29	20.70	-	30.00	30.00	-2.38	-7.38	17.91	13.32	36.00	36.00	Pass
11b	1Mbps	1	11	2462	20.80	20.67	-	30.00	30.00	-2.38	-7.38	18.42	13.29	36.00	36.00	Pass
11b	1Mbps	1	12	2467	19.37	19.56	-	30.00	30.00	-2.38	-7.38	16.99	12.18	36.00	36.00	Pass
11b	1Mbps	1	13	2472	16.14	16.35	-	30.00	30.00	-2.38	-7.38	13.76	8.97	36.00	36.00	Pass
11g	6Mbps	1	1	2412	21.72	22.40	-	30.00	30.00	-2.38	-7.38	19.34	15.02	36.00	36.00	Pass
11g	6Mbps	1	6	2437	23.14	23.12	-	30.00	30.00	-2.38	-7.38	20.76	15.74	36.00	36.00	Pass
11g	6Mbps	1	10	2457	22.15	23.09	-	30.00	30.00	-2.38	-7.38	19.77	15.71	36.00	36.00	Pass
11g	6Mbps	1	11	2462	20.69	20.72	-	30.00	30.00	-2.38	-7.38	18.31	13.34	36.00	36.00	Pass
11g	6Mbps	1	12	2467	13.72	13.65	-	30.00	30.00	-2.38	-7.38	11.34	6.27	36.00	36.00	Pass
11g	6Mbps	1	13	2472	7.65	7.69	-	30.00	30.00	-2.38	-7.38	5.27	0.31	36.00	36.00	Pass
HT20	MCS0	1	1	2412	21.13	21.50	-	30.00	30.00	-2.38	-7.38	18.75	14.12	36.00	36.00	Pass
HT20	MCS0	1	6	2437	23.33	23.39	-	30.00	30.00	-2.38	-7.38	20.95	16.01	36.00	36.00	Pass
HT20	MCS0	1	10	2457	23.22	23.01	-	30.00	30.00	-2.38	-7.38	20.84	15.63	36.00	36.00	Pass
HT20	MCS0	1	11	2462	19.61	19.80	-	30.00	30.00	-2.38	-7.38	17.23	12.42	36.00	36.00	Pass
HT20	MCS0	1	12	2467	13.70	13.74	-	30.00	30.00	-2.38	-7.38	11.32	6.36	36.00	36.00	Pass
HT20	MCS0	1	13	2472	8.50	8.52	-	30.00	30.00	-2.38	-7.38	6.12	1.14	36.00	36.00	Pass
VHT20	MCS0	1	1	2412	21.10	21.49	-	30.00	30.00	-2.38	-7.38	18.72	14.11	36.00	36.00	Pass
VHT20	MCS0	1	6	2437	23.31	23.18	-	30.00	30.00	-2.38	-7.38	20.93	15.80	36.00	36.00	Pass
VHT20	MCS0	1	10	2457	23.17	23.00	-	30.00	30.00	-2.38	-7.38	20.79	15.62	36.00	36.00	Pass
VHT20	MCS0	1	11	2462	19.60	19.77	-	30.00	30.00	-2.38	-7.38	17.22	12.39	36.00	36.00	Pass
VHT20	MCS0	1	12	2467	13.68	13.71	-	30.00	30.00	-2.38	-7.38	11.30	6.33	36.00	36.00	Pass
VHT20	MCS0	1	13	2472	8.48	8.44	-	30.00	30.00	-2.38	-7.38	6.10	1.06	36.00	36.00	Pass
11b	1Mbps	2	1	2412	21.91	22.13	25.03	30.00		-2.38		22.65		36.00		Pass
11b	1Mbps	2	6	2437	20.31	20.72	23.53	30.00		-2.38		21.15		36.00		Pass
11b	1Mbps	2	11	2462	20.81	20.71	23.77	30.00		-2.38		21.39		36.00		Pass
11b	1Mbps	2	12	2467	19.60	19.61	22.62	30.00		-2.38		20.24		36.00		Pass
11b	1Mbps	2	13	2472	16.37	16.50	19.45	30.00		-2.38		17.07		36.00		Pass
11g	6Mbps	2	1	2412	22.55	22.92	25.75	30.00		-2.38		23.37		36.00		Pass
11g	6Mbps	2	6	2437	23.26	23.13	26.21	30.00		-2.38		23.83		36.00		Pass
11g	6Mbps	2	10	2457	22.16	23.21	25.73	30.00		-2.38		23.35		36.00		Pass
11g	6Mbps	2	11	2462	20.70	21.11	23.92	30.00		-2.38		21.54		36.00		Pass
11g	6Mbps	2	12	2467	13.76	13.71	16.75	30.00		-2.38		14.37		36.00		Pass
11g	6Mbps	2	13	2472	7.66	7.98	10.83	30.00		-2.38		8.45		36.00		Pass
HT20	MCS0	2	1	2412	21.35	21.55	24.46	30.00		-2.38		22.08		36.00		Pass
HT20	MCS0	2	6	2437	23.35	23.40	26.39	30.00		-2.38		24.01		36.00		Pass
HT20	MCS0	2	10	2457	23.54	23.13	26.35	30.00		-2.38		23.97		36.00		Pass
HT20	MCS0	2	11	2462	19.62	19.82	22.73	30.00		-2.38		20.35		36.00		Pass
HT20	MCS0	2	12	2467	13.71	13.86	16.80	30.00		-2.38		14.42		36.00		Pass
HT20	MCS0	2	13	2472	8.52	8.94	11.75	30.00		-2.38		9.37		36.00		Pass
VHT20	MCS0	2	1	2412	21.22	21.54	24.39	30.00		-2.38		22.01		36.00		Pass
VHT20	MCS0	2	6	2437	23.41	23.19	26.31	30.00		-2.38		23.93		36.00		Pass
VHT20	MCS0	2	10	2457	23.35	23.04	26.21	30.00		-2.38		23.83		36.00		Pass
VHT20	MCS0	2	11	2462	19.61	19.80	22.72	30.00		-2.38		20.34		36.00		Pass
VHT20	MCS0	2	12	2467	13.70	13.73	16.73	30.00		-2.38		14.35		36.00		Pass
VHT20	MCS0	2	13	2472	8.50	8.52	11.52	30.00		-2.38		9.14		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	19.59	20.06	-
11b	1Mbps	1	6	2437	0.00	0.00	18.00	18.39	
11b	1Mbps	1	11	2462	0.00	0.00	18.50	18.49	
11b	1Mbps	1	12	2467	0.00	0.00	17.03	17.22	
11b	1Mbps	1	13	2472	0.00	0.00	13.83	14.02	
11g	6Mbps	1	1	2412	0.08	0.07	17.32	17.87	
11g	6Mbps	1	6	2437	0.08	0.07	18.10	18.29	
11g	6Mbps	1	10	2457	0.08	0.07	17.88	18.08	
11g	6Mbps	1	11	2462	0.08	0.07	16.01	16.21	
11g	6Mbps	1	12	2467	0.08	0.07	8.93	9.09	
11g	6Mbps	1	13	2472	0.08	0.07	2.52	2.38	
HT20	MCS0	1	1	2412	0.08	0.08	16.09	16.69	
HT20	MCS0	1	6	2437	0.08	0.08	18.22	18.64	
HT20	MCS0	1	10	2457	0.08	0.08	17.92	18.40	
HT20	MCS0	1	11	2462	0.08	0.08	14.88	14.99	
HT20	MCS0	1	12	2467	0.08	0.08	8.82	8.97	
HT20	MCS0	1	13	2472	0.08	0.08	3.30	3.08	
VHT20	MCS0	1	1	2412	0.08	0.08	16.08	16.67	
VHT20	MCS0	1	6	2437	0.08	0.08	18.18	18.63	
VHT20	MCS0	1	10	2457	0.08	0.08	17.91	18.39	
VHT20	MCS0	1	11	2462	0.08	0.08	14.87	14.85	
VHT20	MCS0	1	12	2467	0.08	0.08	8.79	8.92	
VHT20	MCS0	1	13	2472	0.08	0.08	3.22	3.01	
11b	1Mbps	2	1	2412	0.00	0.00	19.72	20.07	22.91
11b	1Mbps	2	6	2437	0.00	0.00	18.04	18.46	21.27
11b	1Mbps	2	11	2462	0.00	0.00	18.63	18.50	21.58
11b	1Mbps	2	12	2467	0.00	0.00	17.18	17.29	20.25
11b	1Mbps	2	13	2472	0.00	0.00	13.84	14.13	17.00
11g	6Mbps	2	1	2412	0.08	0.08	17.48	17.85	20.68
11g	6Mbps	2	6	2437	0.08	0.08	18.11	18.41	21.27
11g	6Mbps	2	10	2457	0.08	0.08	17.89	18.23	21.07
11g	6Mbps	2	11	2462	0.08	0.08	16.10	16.10	19.11
11g	6Mbps	2	12	2467	0.08	0.08	8.94	9.08	12.02
11g	6Mbps	2	13	2472	0.08	0.08	2.53	2.60	5.58
HT20	MCS0	2	1	2412	0.08	0.08	16.20	16.72	19.48
HT20	MCS0	2	6	2437	0.08	0.08	18.23	18.68	21.47
HT20	MCS0	2	10	2457	0.08	0.08	18.09	18.46	21.29
HT20	MCS0	2	11	2462	0.08	0.08	14.90	15.03	17.98
HT20	MCS0	2	12	2467	0.08	0.08	8.85	9.00	11.94
HT20	MCS0	2	13	2472	0.08	0.08	3.31	3.54	6.44
VHT20	MCS0	2	1	2412	0.08	0.08	16.15	16.69	19.44
VHT20	MCS0	2	6	2437	0.08	0.08	18.20	18.67	21.45
VHT20	MCS0	2	10	2457	0.08	0.08	17.98	18.47	21.24
VHT20	MCS0	2	11	2462	0.08	0.08	14.89	14.88	17.90
VHT20	MCS0	2	12	2467	0.08	0.08	8.80	8.95	11.89
VHT20	MCS0	2	13	2472	0.08	0.08	3.24	3.04	6.15

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	-2.41	-2.37	0.64	-1.51		8.00		Pass
11b	1Mbps	2	6	2437	-4.74	-5.27	-1.73	-1.51		8.00		Pass
11b	1Mbps	2	11	2462	-5.06	-3.16	-0.15	-1.51		8.00		Pass
11b	1Mbps	2	12	2467	-5.19	-4.84	-1.83	-1.51		8.00		Pass
11b	1Mbps	2	13	2472	-8.95	-7.91	-4.90	-1.51		8.00		Pass
11g	6Mbps	2	1	2412	-6.07	-7.47	-3.06	-1.51		8.00		Pass
11g	6Mbps	2	6	2437	-6.89	-6.00	-2.99	-1.51		8.00		Pass
11g	6Mbps	2	10	2457	-7.54	-6.27	-3.26	-1.51		8.00		Pass
11g	6Mbps	2	11	2462	-10.32	-10.27	-7.26	-1.51		8.00		Pass
11g	6Mbps	2	12	2467	-16.23	-17.44	-13.22	-1.51		8.00		Pass
11g	6Mbps	2	13	2472	-22.86	-23.73	-19.85	-1.51		8.00		Pass
HT20	MCS0	2	1	2412	-8.17	-8.19	-5.16	-1.51		8.00		Pass
HT20	MCS0	2	6	2437	-6.94	-6.43	-3.42	-1.51		8.00		Pass
HT20	MCS0	2	10	2457	-6.43	-6.79	-3.42	-1.51		8.00		Pass
HT20	MCS0	2	11	2462	-8.24	-11.78	-5.23	-1.51		8.00		Pass
HT20	MCS0	2	12	2467	-16.29	-16.31	-13.28	-1.51		8.00		Pass
HT20	MCS0	2	13	2472	-21.96	-22.37	-18.95	-1.51		8.00		Pass

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



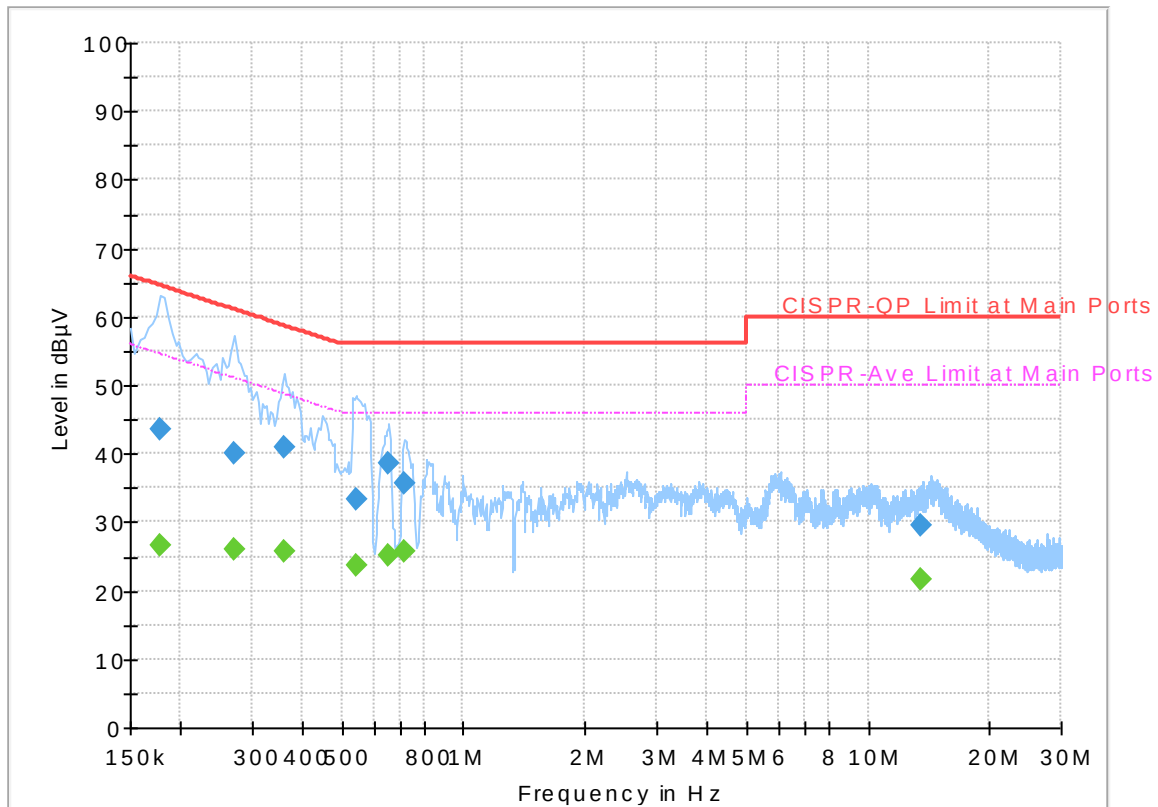
Appendix B. AC Conducted Emission Test Results

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

EUT Information

Report NO : 820225
Test Mode : Mode 1
Test Voltage : 120Vac/60Hz
Phase : Line

Full Spectrum



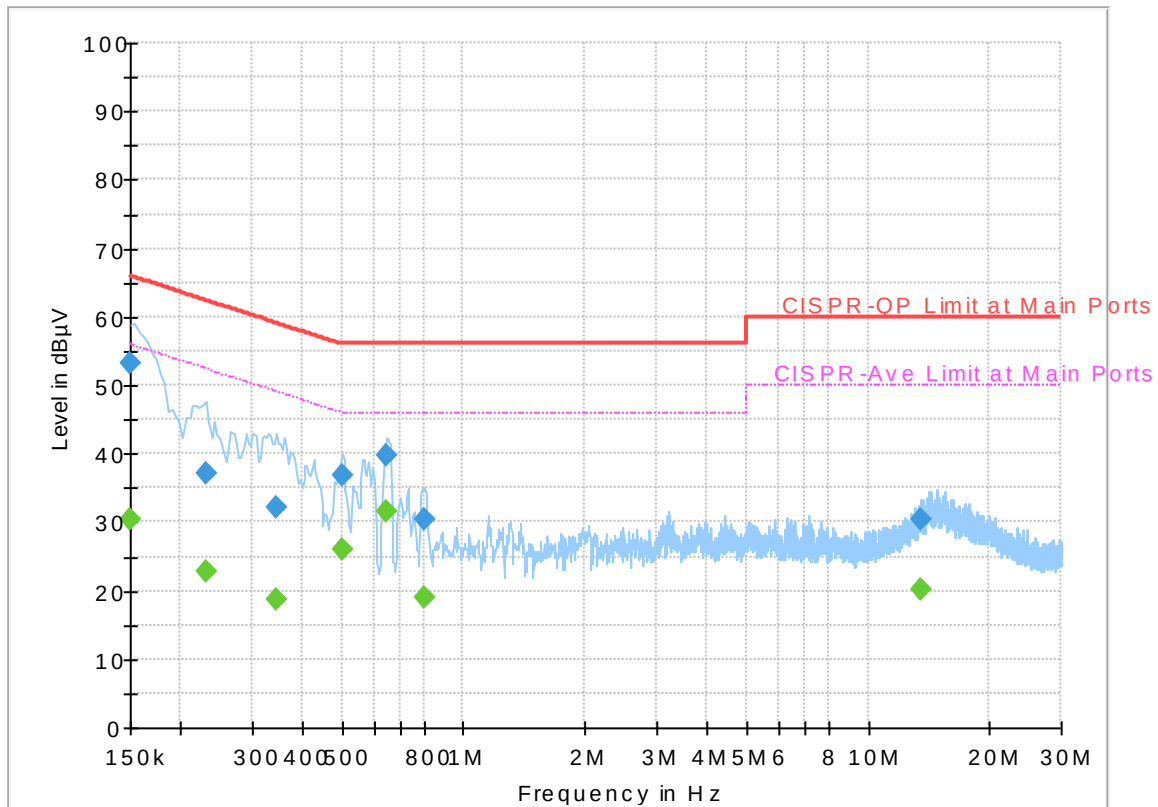
Final Result

Frequency (MHz)	QuasiPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Filter	Corr. (dB)
0.178000	---	26.70	54.58	27.88	L1	OFF	19.5
0.178000	43.70	---	64.58	20.88	L1	OFF	19.5
0.270000	---	26.03	51.12	25.09	L1	OFF	19.5
0.270000	39.97	---	61.12	21.15	L1	OFF	19.5
0.362000	---	25.64	48.68	23.04	L1	OFF	19.5
0.362000	40.82	---	58.68	17.86	L1	OFF	19.5
0.542000	---	23.60	46.00	22.40	L1	OFF	19.5
0.542000	33.30	---	56.00	22.70	L1	OFF	19.5
0.654000	---	25.19	46.00	20.81	L1	OFF	19.5
0.654000	38.61	---	56.00	17.39	L1	OFF	19.5
0.714000	---	25.86	46.00	20.14	L1	OFF	19.5
0.714000	35.56	---	56.00	20.44	L1	OFF	19.5
13.560000	---	21.73	50.00	28.27	L1	OFF	19.7
13.560000	29.46	---	60.00	30.54	L1	OFF	19.7

EUT Information

Report NO : 820225
Test Mode : Mode 1
Test Voltage : 120Vac/60Hz
Phase : Neutral

Full Spectrum



Final Result

Frequency (MHz)	QuasiPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Filter	Corr. (dB)
0.150000	---	30.40	56.00	25.60	N	OFF	19.5
0.150000	53.15	---	66.00	12.85	N	OFF	19.5
0.230000	---	22.75	52.45	29.70	N	OFF	19.5
0.230000	37.00	---	62.45	25.45	N	OFF	19.5
0.346000	---	18.85	49.06	30.21	N	OFF	19.5
0.346000	32.24	---	59.06	26.82	N	OFF	19.5
0.502000	---	26.00	46.00	20.00	N	OFF	19.5
0.502000	36.70	---	56.00	19.30	N	OFF	19.5
0.646000	---	31.65	46.00	14.35	N	OFF	19.5
0.646000	39.74	---	56.00	16.26	N	OFF	19.5
0.802000	---	19.09	46.00	26.91	N	OFF	19.5
0.802000	30.35	---	56.00	25.65	N	OFF	19.5
13.560000	---	20.20	50.00	29.80	N	OFF	19.8
13.560000	30.50	---	60.00	29.50	N	OFF	19.8



Appendix C. Radiated Spurious Emission

Test Engineer :	Hao Hsu, Ken Wu and Chuan Zhu	Temperature :	21~26°C
		Relative Humidity :	51~56%

2.4GHz 2400~2483.5MHz

WIFI 802.11b (Band Edge @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11b CH 01 2412MHz		2389.59	52.62	-21.38	74	42.8	27.13	16.29	33.6	400	158	P	H
		2388.12	43.68	-10.32	54	33.86	27.13	16.29	33.6	400	158	A	H
	*	2412	108.02	-	-	98.13	27.18	16.3	33.59	400	158	P	H
	*	2412	105.02	-	-	95.13	27.18	16.3	33.59	400	158	A	H
		2387.07	52.63	-21.37	74	42.81	27.13	16.29	33.6	370	102	P	V
		2388.015	43.68	-10.32	54	33.86	27.13	16.29	33.6	370	102	A	V
	*	2412	105.44	-	-	95.55	27.18	16.3	33.59	370	102	P	V
	*	2412	102.66	-	-	92.77	27.18	16.3	33.59	370	102	A	V
802.11b CH 06 2437MHz		2387.28	52.36	-21.64	74	42.54	27.13	16.29	33.6	400	171	P	H
		2390	41.25	-12.75	54	31.42	27.13	16.29	33.59	400	171	A	H
	*	2437	105.86	-	-	95.87	27.27	16.31	33.59	400	171	P	H
	*	2437	102.69	-	-	92.7	27.27	16.31	33.59	400	171	A	H
		2491.44	51.8	-22.2	74	41.66	27.4	16.32	33.58	400	171	P	H
		2485.04	41.69	-12.31	54	31.59	27.36	16.32	33.58	400	171	A	H
		2345.36	51.9	-22.1	74	42.35	27	16.15	33.6	356	99	P	V
		2390	41.26	-12.74	54	31.43	27.13	16.29	33.59	356	99	A	V
	*	2437	106.28	-	-	96.29	27.27	16.31	33.59	356	99	P	V
	*	2437	103.24	-	-	93.25	27.27	16.31	33.59	356	99	A	V
		2484.4	52.2	-21.8	74	42.1	27.36	16.32	33.58	356	99	P	V
		2484	41.71	-12.29	54	31.62	27.36	16.31	33.58	356	99	A	V



802.11b CH 11 2462MHz	*	2462	106.54	-	-	96.5	27.31	16.31	33.58	395	153	P	H
	*	2462	103.38	-	-	93.34	27.31	16.31	33.58	395	153	A	H
		2483.88	52.83	-21.17	74	42.74	27.36	16.31	33.58	395	153	P	H
		2483.52	42.88	-11.12	54	32.79	27.36	16.31	33.58	395	153	A	H
	*	2462	106.78	-	-	96.74	27.31	16.31	33.58	367	99	P	V
	*	2462	103.73	-	-	93.69	27.31	16.31	33.58	367	99	A	V
		2487.08	52.5	-21.5	74	42.4	27.36	16.32	33.58	367	99	P	V
		2486.68	42.67	-11.33	54	32.57	27.36	16.32	33.58	367	99	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



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)
802.11b CH 12 2467MHz	*	2467	106.4	-	-	96.36	27.31	6.38	33.58	205	34	P	H
	*	2467	103.13	-	-	93.09	27.31	6.38	33.58	205	34	A	H
		2483.72	58.56	-15.44	74	48.47	27.36	6.38	33.58	205	34	P	H
		2484.16	51.94	-2.06	54	41.85	27.36	6.38	33.58	205	34	A	H
	*	2466	106.94	-	-	96.9	27.31	6.38	33.58	315	92	P	V
	*	2466	103.79	-	-	93.75	27.31	6.38	33.58	315	92	A	V
		2483.84	58.76	-15.24	74	48.67	27.36	6.38	33.58	315	92	P	V
		2484.08	52.77	-1.23	54	42.68	27.36	6.38	33.58	315	92	A	V
802.11b CH 13 2472MHz	*	2472	102.54	-	-	92.45	27.36	16.31	33.58	389	31	P	H
	*	2472	99.1	-	-	89.01	27.36	16.31	33.58	389	31	A	H
		2483.52	57.75	-16.25	74	47.66	27.36	16.31	33.58	389	31	P	H
		2486.48	51.69	-2.31	54	41.59	27.36	16.32	33.58	389	31	A	H
	*	2472	103.4	-	-	93.31	27.36	16.31	33.58	322	89	P	V
	*	2472	100.32	-	-	90.23	27.36	16.31	33.58	322	89	A	V
		2485.64	56.15	-17.85	74	46.05	27.36	16.32	33.58	322	89	P	V
		2486.16	49.42	-4.58	54	39.32	27.36	16.32	33.58	322	89	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz

WIFI 802.11b (Harmonic @ 3m)

WIFI Ant. 1+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)
802.11b CH 01 2412MHz		4824	57.65	-16.35	74	72.91	31.29	10.02	56.57	100	318	P	H
		4824	47.44	-6.56	54	62.7	31.29	10.02	56.57	100	318	A	H
		4824	57.86	-16.14	74	73.12	31.29	10.02	56.57	100	320	P	V
		4824	47.54	-6.46	54	62.8	31.29	10.02	56.57	100	320	A	V
802.11b CH 06 2437MHz		4874	57.6	-16.4	74	72.78	31.38	9.56	56.55	112	317	P	H
		4874	47.67	-6.33	54	62.85	31.38	9.56	56.55	112	317	A	H
		7311	44.34	-29.66	74	52.52	36.28	11.31	56.23	100	0	P	H
		7311	49.98	-4.02	54	58.16	36.28	11.77	56.23	198	51	A	H
		4874	49.41	-24.59	74	64.59	31.38	9.56	56.55	100	0	P	V
		7311	44.24	-29.76	74	52.42	36.28	11.31	56.23	100	0	P	V
		7311	47.68	-26.32	74	55.86	36.28	11.77	56.23	100	0	P	V
802.11b CH 11 2462MHz		4924	58.52	-15.48	74	73.58	31.48	9.99	56.53	104	326	P	H
		4924	48.26	-5.74	54	63.32	31.48	9.99	56.53	104	326	A	H
		7386	54.07	-19.93	74	62.04	36.47	11.68	56.12	195	51	P	H
		7386	50.07	-3.93	54	58.04	36.47	11.68	56.12	195	51	A	H
		4924	53.44	-20.56	74	68.5	31.48	9.99	56.53	199	16	P	V
		4924	43.65	-10.35	54	58.71	31.48	9.99	56.53	199	16	A	V
		7386	47.47	-26.53	74	55.44	36.47	11.68	56.12	100	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



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)
802.11b CH 12 2467MHz		4934	57.13	-16.87	74	72.2	31.48	9.98	56.53	196	333	P	H
		4934	48.26	-5.74	54	63.33	31.48	9.98	56.53	196	333	A	H
		7401	53.83	-20.17	74	61.76	36.51	11.66	56.1	145	16	P	H
		7401	50.03	-3.97	54	57.96	36.51	11.66	56.1	145	16	A	H
		4934	52.22	-21.78	74	67.29	31.48	9.98	56.53	200	360	P	V
		4934	42.62	-11.38	54	57.69	31.48	9.98	56.53	200	360	A	V
		7401	46.65	-27.35	74	54.58	36.51	11.66	56.1	100	0	P	V
802.11b CH 13 2472MHz		4944	47.48	-26.52	74	62.51	31.51	9.98	56.52	100	0	P	H
		7416	45.28	-28.72	74	53.18	36.51	11.69	56.1	100	0	P	H
		4944	48.77	-25.23	74	63.8	31.51	9.98	56.52	100	0	P	V
		7416	42.8	-31.2	74	50.7	36.51	11.69	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		2389.905	62.01	-11.99	74	52.18	27.13	16.29	33.59	201	23	P	H
		2390	52.39	-1.61	54	42.56	27.13	16.29	33.59	201	23	A	H
	*	2412	111.47	-	-	101.58	27.18	16.3	33.59	201	23	P	H
	*	2414	103.93	-	-	94.04	27.18	16.3	33.59	201	23	A	H
		2390	55.51	-18.49	74	45.68	27.13	16.29	33.59	400	84	P	V
		2390	46.57	-7.43	54	36.74	27.13	16.29	33.59	400	84	A	V
	*	2412	107.54	-	-	97.65	27.18	16.3	33.59	400	84	P	V
	*	2412	99.69	-	-	89.8	27.18	16.3	33.59	400	84	A	V
802.11g CH 06 2437MHz		2388.88	52.31	-21.69	74	42.49	27.13	16.29	33.6	201	149	P	H
		2390	42.36	-11.64	54	32.53	27.13	16.29	33.59	201	149	A	H
	*	2437	111.72	-	-	101.73	27.27	16.31	33.59	201	149	P	H
	*	2437	104.37	-	-	94.38	27.27	16.31	33.59	201	149	A	H
		2487.04	52.49	-21.51	74	42.39	27.36	16.32	33.58	201	149	P	H
		2484.08	43.2	-10.8	54	33.11	27.36	16.31	33.58	201	149	A	H
		2359.44	52.88	-21.12	74	43.22	27.04	16.22	33.6	400	86	P	V
		2390	41.53	-12.47	54	31.7	27.13	16.29	33.59	400	86	A	V
	*	2437	109.43	-	-	99.44	27.27	16.31	33.59	400	86	P	V
	*	2437	102.09	-	-	92.1	27.27	16.31	33.59	400	86	A	V
		2484.32	52.15	-21.85	74	42.05	27.36	16.32	33.58	400	86	P	V
		2484.4	42.38	-11.62	54	32.28	27.36	16.32	33.58	400	86	A	V



802.11g CH 10 2457MHz	*	2457	113.52	-	-	103.48	27.31	6.38	33.58	200	23	P	H
	*	2457	106.08	-	-	96.04	27.31	6.38	33.58	200	23	A	H
		2484.18	61.2	-12.8	74	51.1	27.36	6.39	33.58	200	23	P	H
		2484.25	51.93	-2.07	54	41.83	27.36	6.39	33.58	200	23	A	H
	*	2457	109.01	-	-	98.97	27.31	6.38	33.58	392	83	P	V
	*	2457	102.06	-	-	92.02	27.31	6.38	33.58	392	83	A	V
		2485.3	58.67	-15.33	74	48.57	27.36	6.39	33.58	392	83	P	V
		2485.65	49.11	-4.89	54	39.01	27.36	6.39	33.58	392	83	A	V
802.11g CH 11 2462MHz	*	2462	111.36	-	-	101.32	27.31	16.31	33.58	200	26	P	H
	*	2462	103.68	-	-	93.64	27.31	16.31	33.58	200	26	A	H
		2484.6	63.35	-10.65	74	53.25	27.36	16.32	33.58	200	26	P	H
		2483.52	52.14	-1.86	54	42.05	27.36	16.31	33.58	200	26	A	H
	*	2462	107.29	-	-	97.25	27.31	16.31	33.58	400	94	P	V
	*	2462	99.39	-	-	89.35	27.31	16.31	33.58	400	94	A	V
		2484.64	62.45	-11.55	74	52.35	27.36	16.32	33.58	400	94	P	V
		2483.52	49.36	-4.64	54	39.27	27.36	16.31	33.58	400	94	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



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 12 2467MHz	*	2467	103.4	-	-	93.36	27.31	16.31	33.58	200	41	P	H
	*	2467	96.2	-	-	86.16	27.31	16.31	33.58	200	41	A	H
		2483.56	64.64	-9.36	74	54.55	27.36	16.31	33.58	200	41	P	H
		2483.52	52.92	-1.08	54	42.83	27.36	16.31	33.58	200	41	A	H
	*	2467	99.62	-	-	89.58	27.31	16.31	33.58	356	93	P	V
	*	2467	92.39	-	-	82.35	27.31	16.31	33.58	356	93	A	V
		2483.88	60.72	-13.28	74	50.63	27.36	16.31	33.58	356	93	P	V
		2483.52	49.47	-4.53	54	39.38	27.36	16.31	33.58	356	93	A	V
802.11g CH 13 2472MHz	*	2472	95.42	-	-	85.33	27.36	6.38	33.58	112	301	P	H
	*	2472	88.21	-	-	78.12	27.36	6.38	33.58	112	301	A	H
		2483.56	63.82	-10.18	74	53.73	27.36	6.38	33.58	112	301	P	H
		2483.52	52.35	-1.65	54	42.26	27.36	6.38	33.58	112	301	A	H
	*	2472	90.49	-	-	80.4	27.36	6.38	33.58	391	16	P	V
	*	2472	82.69	-	-	72.6	27.36	6.38	33.58	391	16	A	V
		2483.68	60.59	-13.41	74	50.5	27.36	6.38	33.58	391	16	P	V
		2483.88	49.61	-4.39	54	39.52	27.36	6.38	33.58	391	16	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 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		4824	47.35	-26.65	74	62.61	31.29	10.02	56.57	100	0	P	H
		4824	45.79	-28.21	74	61.05	31.29	10.02	56.57	100	0	P	V
802.11g CH 06 2437MHz		4874	47.43	-26.57	74	62.61	31.38	9.99	56.55	100	0	P	H
		7311	58.15	-15.85	74	66.33	36.28	11.77	56.23	145	15	P	H
		7311	46.03	-7.97	54	54.21	36.28	11.77	56.23	145	15	A	H
		4874	46.22	-27.78	74	61.4	31.38	9.99	56.55	100	0	P	V
802.11g CH 11 2462MHz		7311	48.07	-25.93	74	56.25	36.28	11.77	56.23	100	0	P	V
		4924	45.73	-28.27	74	60.79	31.48	9.99	56.53	100	0	P	H
		7386	53.89	-20.11	74	61.86	36.47	11.68	56.12	145	16	P	H
		7386	40.47	-13.53	54	48.44	36.47	11.68	56.12	145	16	A	H
		4924	43.07	-30.93	74	58.13	31.48	9.99	56.53	100	0	P	V
Remark		7386	43.11	-30.89	74	51.08	36.47	11.68	56.12	100	0	P	V
	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		2389.905	62.94	-11.06	74	53.11	27.13	16.29	33.59	201	29	P	H
		2390	52.07	-1.93	54	42.24	27.13	16.29	33.59	201	29	A	H
	*	2412	110.7	-	-	100.81	27.18	16.3	33.59	201	29	P	H
	*	2412	102.99	-	-	93.1	27.18	16.3	33.59	201	29	A	H
		2390	55.91	-18.09	74	46.08	27.13	16.29	33.59	400	85	P	V
		2390	45.46	-8.54	54	35.63	27.13	16.29	33.59	400	85	A	V
	*	2412	104.33	-	-	94.44	27.18	16.3	33.59	400	85	P	V
	*	2412	96.92	-	-	87.03	27.18	16.3	33.59	400	85	A	V
802.11n HT20 CH 06 2437MHz		2389.84	52.51	-21.49	74	42.68	27.13	16.29	33.59	201	32	P	H
		2390	43.55	-10.45	54	33.72	27.13	16.29	33.59	201	32	A	H
	*	2437	112.71	-	-	102.72	27.27	16.31	33.59	201	32	P	H
	*	2437	104.63	-	-	94.64	27.27	16.31	33.59	201	32	A	H
		2484	54.24	-19.76	74	44.15	27.36	16.31	33.58	201	32	P	H
		2483.76	44.03	-9.97	54	33.94	27.36	16.31	33.58	201	32	A	H
		2370.48	51.6	-22.4	74	41.89	27.09	16.22	33.6	400	86	P	V
		2390	42.19	-11.81	54	32.36	27.13	16.29	33.59	400	86	A	V
	*	2437	110.25	-	-	100.26	27.27	16.31	33.59	400	86	P	V
	*	2437	101.79	-	-	91.8	27.27	16.31	33.59	400	86	A	V
		2483.92	55.99	-18.01	74	45.9	27.36	16.31	33.58	400	86	P	V
		2483.52	44	-10	54	33.91	27.36	16.31	33.58	400	86	A	V



802.11n HT20 CH 10 2457MHz	*	2458	113.67	-	-	103.63	27.31	6.38	33.58	200	23	P	H
	*	2458	106.49	-	-	96.45	27.31	6.38	33.58	200	23	A	H
		2483.97	63.58	-10.42	74	53.49	27.36	6.38	33.58	200	23	P	H
		2483.5	52.66	-1.34	54	42.57	27.36	6.38	33.58	200	23	A	H
	*	2457	108.61	-	-	98.57	27.31	6.38	33.58	346	84	P	V
	*	2457	100.51	-	-	90.47	27.31	6.38	33.58	346	84	A	V
		2483.5	58.31	-15.69	74	48.22	27.36	6.38	33.58	346	84	P	V
		2483.5	49	-5	54	38.91	27.36	6.38	33.58	346	84	A	V
802.11n HT20 CH 11 2462MHz	*	2462	109.49	-	-	99.45	27.31	16.31	33.58	200	37	P	H
	*	2462	102.56	-	-	92.52	27.31	16.31	33.58	200	37	A	H
		2484.24	63.29	-10.71	74	53.19	27.36	16.32	33.58	200	37	P	H
		2483.52	52.49	-1.51	54	42.4	27.36	16.31	33.58	200	37	A	H
	*	2462	105.78	-	-	95.74	27.31	16.31	33.58	400	91	P	V
	*	2462	98.63	-	-	88.59	27.31	16.31	33.58	400	91	A	V
		2483.76	61.33	-12.67	74	51.24	27.36	16.31	33.58	400	91	P	V
		2483.52	50.28	-3.72	54	40.19	27.36	16.31	33.58	400	91	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



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 12 2467MHz	*	2467	103.16	-	-	93.12	27.31	16.31	33.58	200	37	P	H
	*	2467	95.28	-	-	85.24	27.31	16.31	33.58	200	37	A	H
		2483.68	62.41	-11.59	74	52.32	27.36	16.31	33.58	200	37	P	H
		2483.52	52.58	-1.42	54	42.49	27.36	16.31	33.58	200	37	P	H
	*	2467	99.96	-	-	89.92	27.31	16.31	33.58	355	89	P	V
	*	2467	92.52	-	-	82.48	27.31	16.31	33.58	355	89	A	V
		2483.64	60.24	-13.76	74	50.15	27.36	16.31	33.58	355	89	P	V
		2483.52	49.4	-4.6	54	39.31	27.36	16.31	33.58	355	89	A	V
802.11n HT20 CH 13 2472MHz	*	2472	96.81	-	-	86.72	27.36	6.38	33.58	100	309	P	H
	*	2472	88.92	-	-	78.83	27.36	6.38	33.58	100	309	A	H
		2484.32	63.27	-10.73	74	53.17	27.36	6.39	33.58	100	309	P	H
		2483.92	51.57	-2.43	54	41.48	27.36	6.38	33.58	100	309	A	H
	*	2472	90.47	-	-	80.38	27.36	6.38	33.58	390	8	P	V
	*	2472	82.57	-	-	72.48	27.36	6.38	33.58	390	8	A	V
		2483.56	62.85	-11.15	74	52.76	27.36	6.38	33.58	390	8	P	V
		2483.52	52.92	-1.08	54	42.83	27.36	6.38	33.58	390	8	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. 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		4824	49.45	-24.55	74	64.71	31.29	10.02	56.57	100	0	P	H
		4824	46.45	-27.55	74	61.71	31.29	10.02	56.57	100	0	P	V
802.11n HT20 CH 06 2437MHz		4874	48.93	-25.07	74	64.11	31.38	9.99	56.55	100	0	P	H
		7311	61.86	-12.14	74	70.04	36.28	11.77	56.23	137	22	P	H
		7311	47.8	-6.2	54	55.98	36.28	11.77	56.23	137	22	A	H
		4874	48.61	-25.39	74	63.79	31.38	9.99	56.55	100	0	P	V
		7311	56.14	-17.86	74	64.32	36.28	11.77	56.23	168	163	P	V
		7311	42.65	-11.35	54	50.83	36.28	11.77	56.23	168	163	A	V
802.11n HT20 CH 11 2462MHz		4924	42.22	-31.78	74	57.28	31.48	9.99	56.53	100	0	P	H
		7386	44.03	-29.97	74	52	36.47	11.68	56.12	100	0	P	H
		4924	45.99	-28.01	74	61.05	31.48	9.99	56.53	100	0	P	V
		7386	42.41	-31.59	74	50.38	36.47	11.68	56.12	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	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)
2.4GHz 802.11 n HT20 LF		161.22	24.42	-19.08	43.5	38.96	16.18	1.71	32.43	-	-	P	H
		199.56	28.85	-14.65	43.5	44.59	14.87	1.78	32.39	-	-	P	H
		297.03	24.54	-21.46	46	35.58	19.01	2.32	32.37	-	-	P	H
		786.5	30.76	-15.24	46	31.3	28.04	3.64	32.22	-	-	P	H
		860	31.32	-14.68	46	30.33	29.04	3.82	31.87	-	-	P	H
		948.9	32.93	-13.07	46	29.64	30.51	3.99	31.21	100	0	P	H
		38.37	32.98	-7.02	40	44.9	19.74	0.83	32.49	-	-	P	V
		41.34	33.11	-6.89	40	46.62	18.15	0.83	32.49	100	0	P	V
		62.4	29.47	-10.53	40	49.33	11.59	1.04	32.49	-	-	P	V
		883.1	31.94	-14.06	46	30.71	29.09	3.89	31.75	-	-	P	V
		902.7	32.38	-13.62	46	31.04	29.02	3.95	31.63	-	-	P	V
		953.1	33.26	-12.74	46	29.6	30.76	4.07	31.17	-	-	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 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 11 2462MHz	*	2462	109.99	-	-	99.95	27.31	16.31	33.58	299	21	P	H
	*	2462	101.85	-	-	91.81	27.31	16.31	33.58	299	21	A	H
		2484.44	63.48	-10.52	74	53.38	27.36	16.32	33.58	299	21	P	H
		2484.04	51.82	-2.18	54	41.73	27.36	16.31	33.58	299	21	A	H
	*	2462	104.68	-	-	94.64	27.31	16.31	33.58	305	91	P	V
	*	2462	96.89	-	-	86.85	27.31	16.31	33.58	305	91	A	V
		2485.92	58.3	-15.7	74	48.2	27.36	16.32	33.58	305	91	P	V
		2483.72	47	-7	54	36.91	27.36	16.31	33.58	305	91	A	V
Remark	3. No other spurious found. 4. 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 11 2462MHz		4924	47.64	-26.36	74	62.7	31.48	9.99	56.53	100	0	P	H
		7386	41.42	-32.58	74	49.39	36.47	11.68	56.12	100	0	P	H
		4924	44.81	-29.19	74	59.87	31.48	9.99	56.53	100	0	P	V
		7386	41.93	-32.07	74	49.9	36.47	11.68	56.12	100	0	P	V
Remark	3. No other spurious found. 4. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz

Emission below 1GHz

2.4GHz WIFI 802.11n HT20 (LF)

WIFI 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		120.18	26.94	-16.56	43.5	40.64	17.33	1.43	32.46			P	H
		139.35	27.86	-15.64	43.5	41.5	17.23	1.57	32.44			P	H
		240.33	31.24	-14.76	46	44.49	17.11	2.02	32.38			P	H
		740.3	29.38	-16.62	46	30.48	27.72	3.53	32.35			P	H
		889.4	31.91	-14.09	46	30.7	29.04	3.89	31.72			P	H
		950.3	32.83	-13.17	46	29.43	30.61	3.99	31.2	100	0	P	H
		37.83	34.28	-5.72	40	45.68	20.26	0.83	32.49	100	0	P	V
		153.66	28.86	-14.64	43.5	42.95	16.64	1.7	32.43			P	V
		240.33	31.32	-14.68	46	44.57	17.11	2.02	32.38			P	V
		778.1	29.78	-16.22	46	30.39	27.99	3.64	32.24			P	V
		876.1	31.81	-14.19	46	30.6	29.1	3.89	31.78			P	V
		949.6	33.37	-12.63	46	30.02	30.56	3.99	31.2			P	V
Remark	3. No other spurious found. 4. 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 :	Hao Hsu, Ken Wu and Chuan Zhu	Temperature :	21~26°C
		Relative Humidity :	51~56%

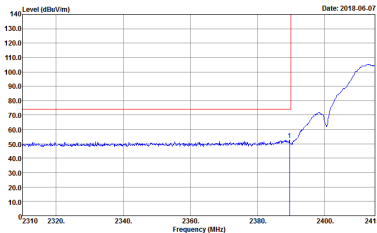
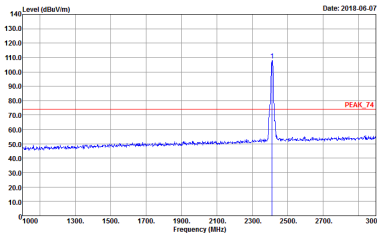
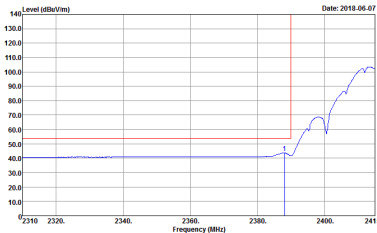
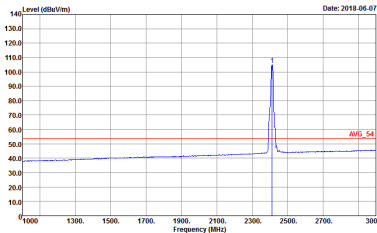
Note symbol

-L	Low channel location
-R	High channel location

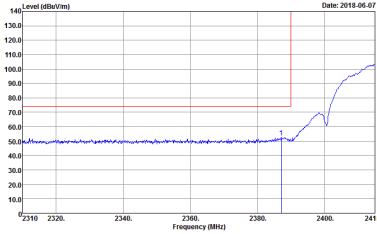
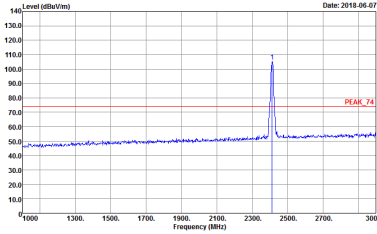
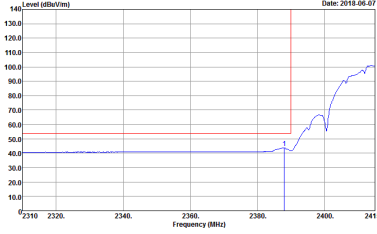
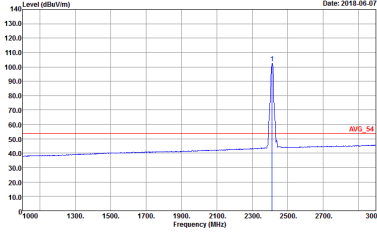


2.4GHz 2400~2483.5MHz

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 : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 820225-02	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 820225-02
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 820225-02	 Site : 03CH11-HY Condition : AVG_54 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 820225-02

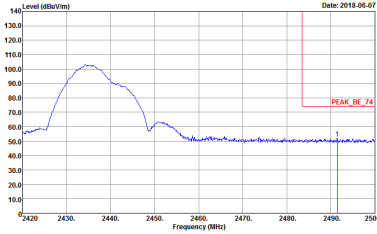
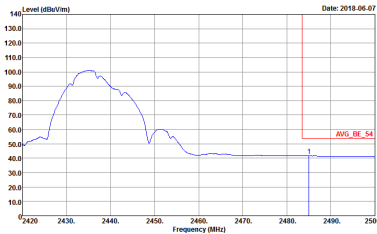


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH01 2412MHz	
1+2	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 820225-02	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 820225-02
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 820225-02	 Site : 03CH11-HY Condition : AVG_54 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 820225-02

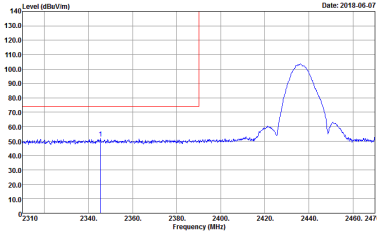
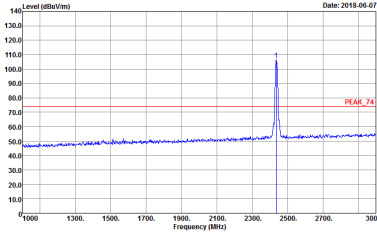
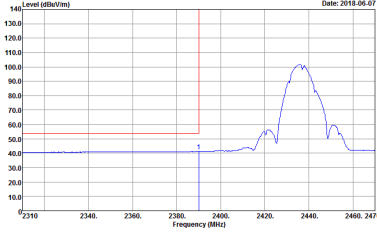
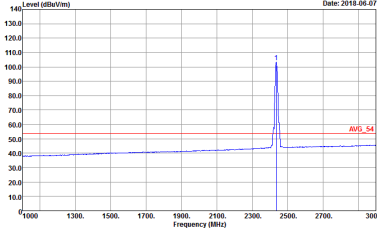


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH06 2437MHz - L	
1+2	Horizontal	Fundamental
Peak	Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 91200-HF HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 820225-02	Site : 03CH11-HY Condition : PEAK_74 3m HORN 91200-HF HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 820225-02
Avg.	Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 91200-HF HORIZONTAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 820225-02	Site : 03CH11-HY Condition : AVG_54 3m HORN 91200-HF HORIZONTAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 820225-02

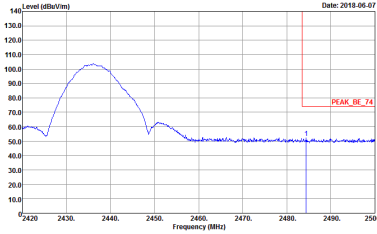
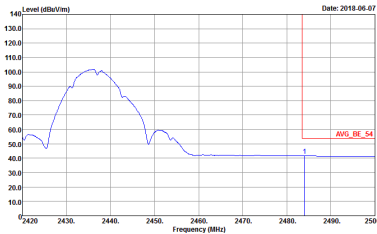


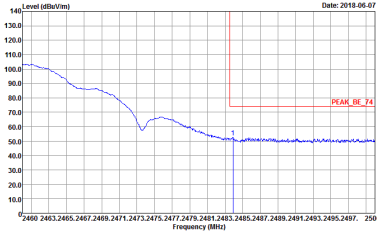
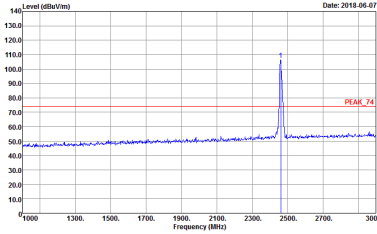
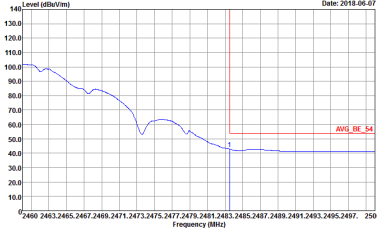
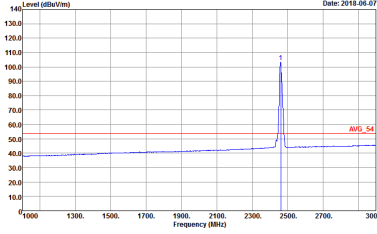
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH06 2437MHz - R	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 91200-HF HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 820225-02	Left blank
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 91200-HF HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 820225-02	Left blank

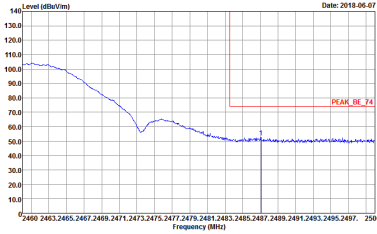
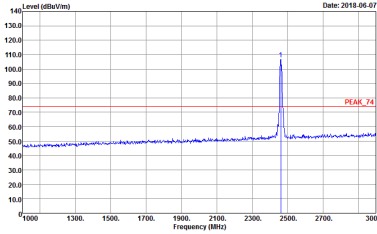
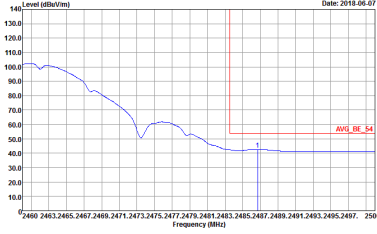
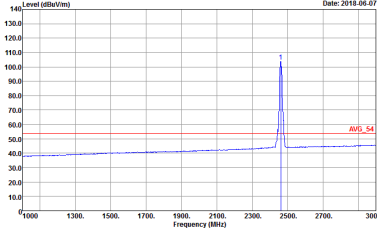


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH06 2437MHz - L	
1+2	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 820225-02	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 820225-02
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 820225-02	 Site : 03CH11-HY Condition : AVG_54 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 820225-02

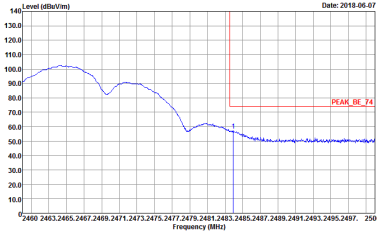
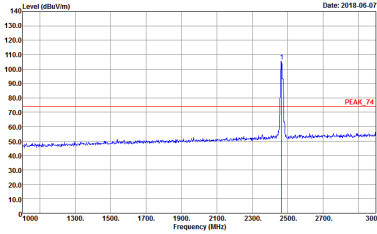
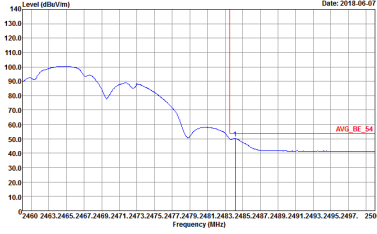
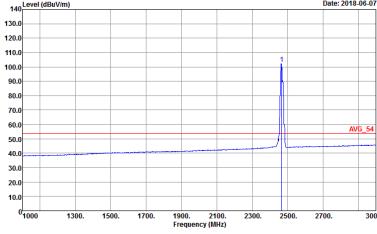


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH06 2437MHz - R	
1+2	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 820225-02	Left blank
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 820225-02	Left blank

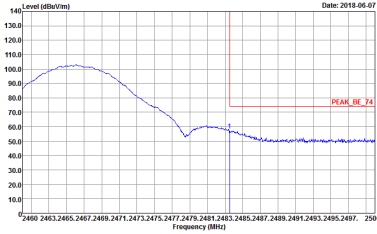
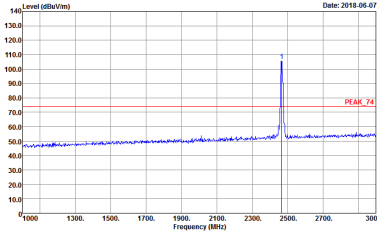
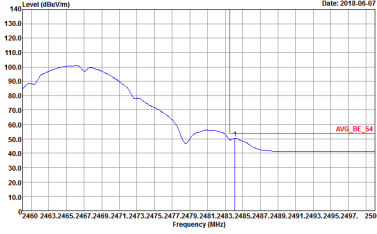
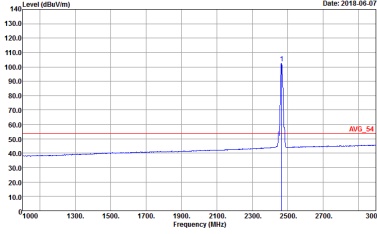
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH11 2462MHz	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH11-HV Condition : PEAK_BE_74 3m HORN 91200-HF HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 820225-02	 Site : 03CH11-HV Condition : PEAK_74 3m HORN 91200-HF HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 820225-02
Avg.	 Site : 03CH11-HV Condition : AVG_BE_54 3m HORN 91200-HF HORIZONTAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 820225-02	 Site : 03CH11-HV Condition : AVG_54 3m HORN 91200-HF HORIZONTAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 820225-02

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH11 2462MHz	
1+2	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 820225-02	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 820225-02
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 820225-02	 Site : 03CH11-HY Condition : AVG_54 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 820225-02

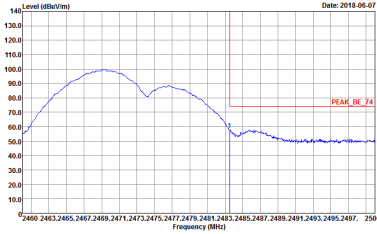
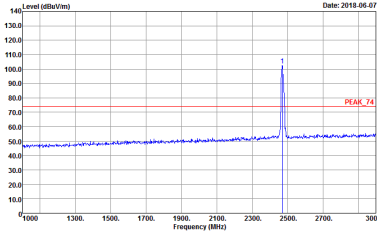
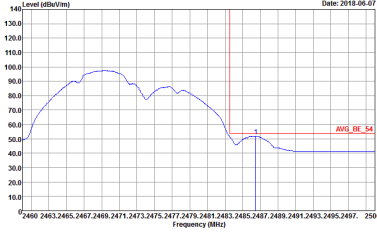
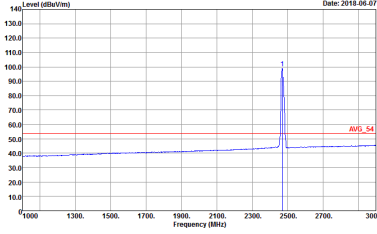


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH12 2467MHz	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 91200-HF HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 820225-02	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 91200-HF HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 820225-02
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 91200-HF HORIZONTAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 820225-02	 Site : 03CH11-HY Condition : AVG_54 3m HORN 91200-HF HORIZONTAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 820225-02

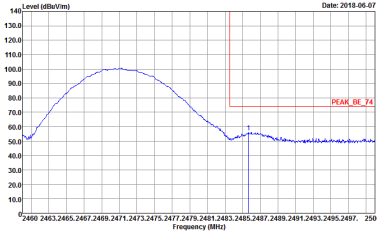
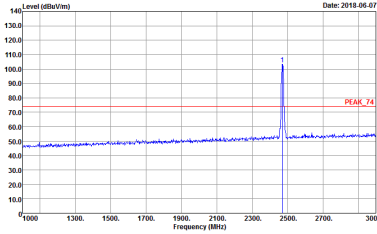
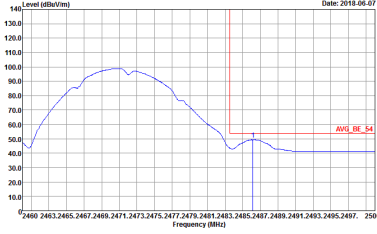
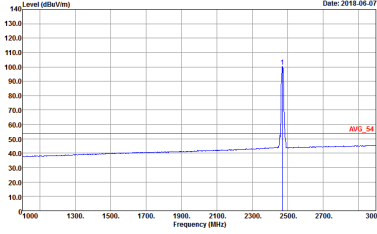


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH12 2467MHz	
1+2	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 820225-02	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 820225-02
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 820225-02	 Site : 03CH11-HY Condition : AVG_54 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 820225-02

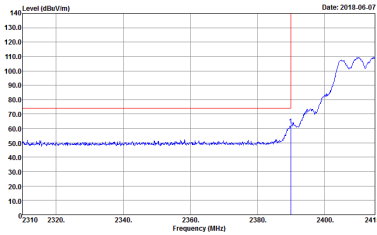
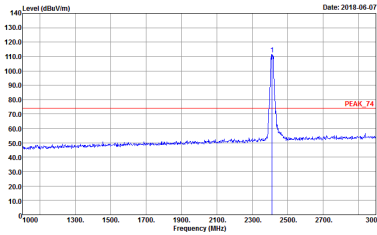
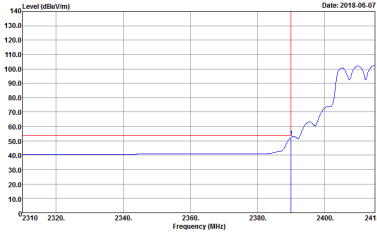
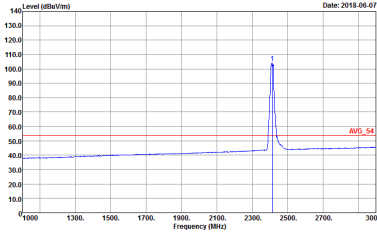


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH13 2472MHz	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 91200-HF HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 820225-02 Setting : 14	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 91200-HF HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 820225-02 Setting : 14
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 91200-HF HORIZONTAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 820225-02 Setting : 14	 Site : 03CH11-HY Condition : AVG_54 3m HORN 91200-HF HORIZONTAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 820225-02 Setting : 14

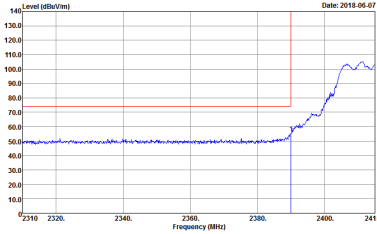
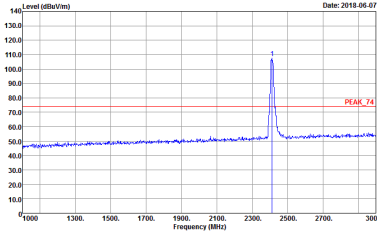
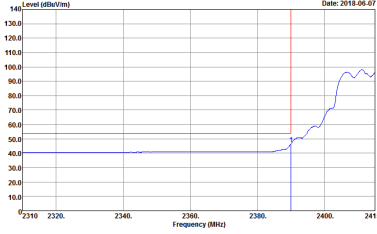
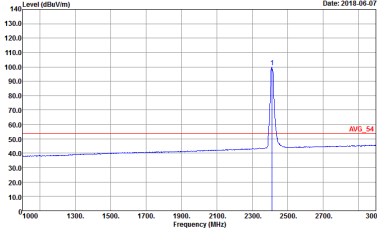


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH13 2472MHz	
1+2	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 820225-02 Setting : 14	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 820225-02 Setting : 14
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 820225-02 Setting : 14	 Site : 03CH11-HY Condition : AVG_54 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 820225-02 Setting : 14

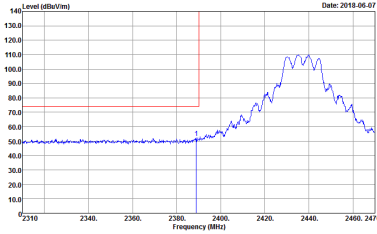
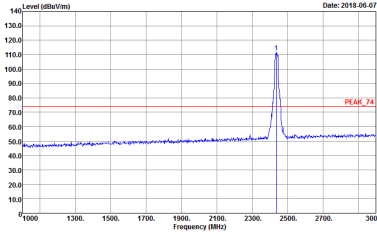
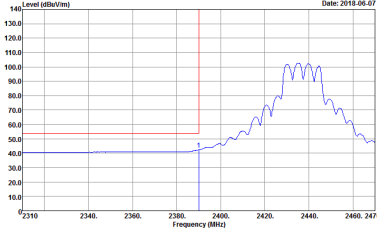
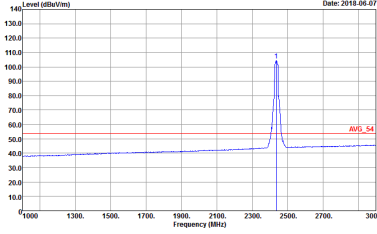
2.4GHz 2400~2483.5MHz
WIFI 802.11g (Band Edge @ 3m)

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH01 2412MHz	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 91200-HF HORIZONTAL Detector : Peak Project : 820225-02 Setting : 18	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 91200-HF HORIZONTAL Detector : Peak Project : 820225-02 Setting : 18
	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 91200-HF HORIZONTAL Detector : Peak Project : 820225-02 Setting : 18	 Site : 03CH11-HY Condition : AVG_54 3m HORN 91200-HF HORIZONTAL Detector : Peak Project : 820225-02 Setting : 18

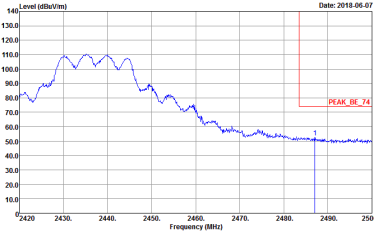
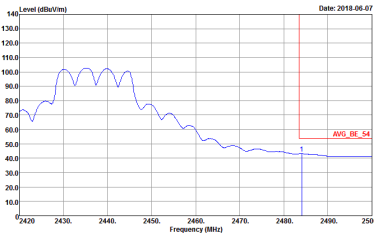


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH01 2412MHz	
1+2	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 820225-02 Setting : 18	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 820225-02 Setting : 18
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 820225-02 Setting : 18	 Site : 03CH11-HY Condition : AVG_54 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 820225-02 Setting : 18

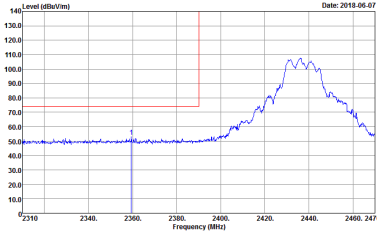
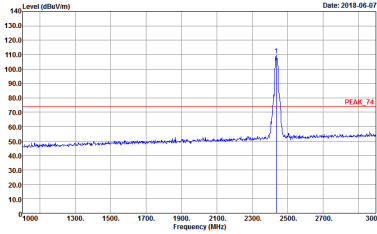
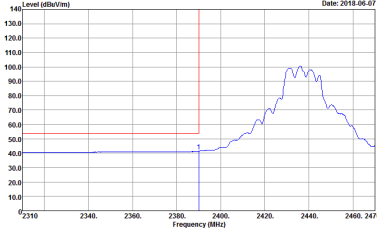
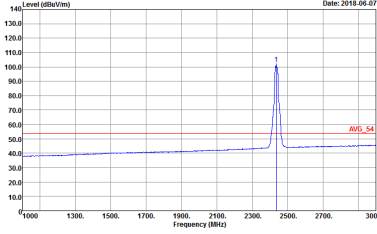


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH06 2437MHz - L	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 91200-HF HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 820225-02 Setting : 20	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 91200-HF HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 820225-02 Setting : 20
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 91200-HF HORIZONTAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 820225-02 Setting : 20	 Site : 03CH11-HY Condition : AVG_54 3m HORN 91200-HF HORIZONTAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 820225-02 Setting : 20

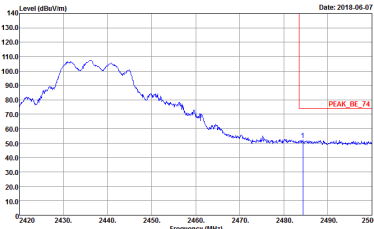
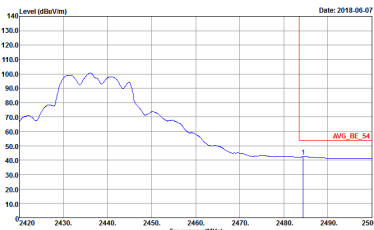


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH06 2437MHz - R	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 91200-HF HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 820225-02 Setting : 20	Left blank
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 91200-HF HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 820225-02 Setting : 20	Left blank

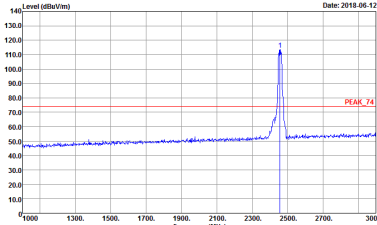
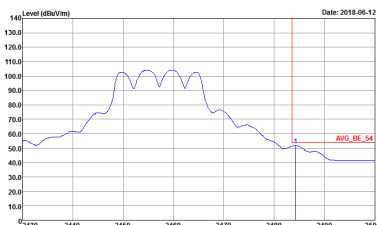
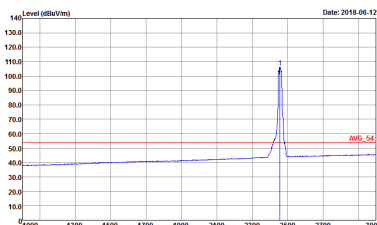


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH06 2437MHz - L	
1+2	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 91200-HF VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Peak Project : 820225-02 Setting : 20	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 91200-HF VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Peak Project : 820225-02 Setting : 20
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 91200-HF VERTICAL Detector : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Peak Project : 820225-02 Setting : 20	 Site : 03CH11-HY Condition : AVG_54 3m HORN 91200-HF VERTICAL Detector : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Peak Project : 820225-02 Setting : 20

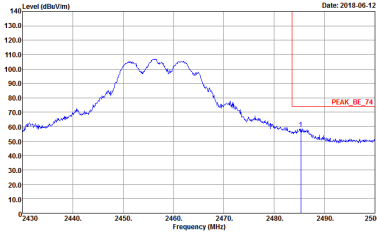
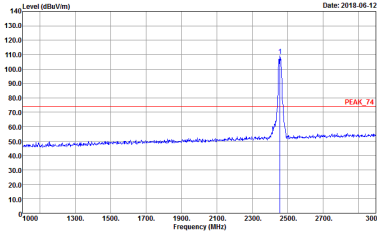
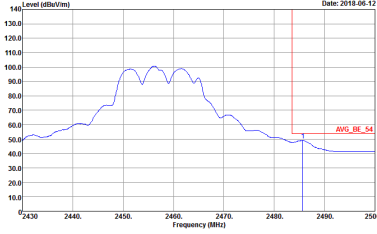
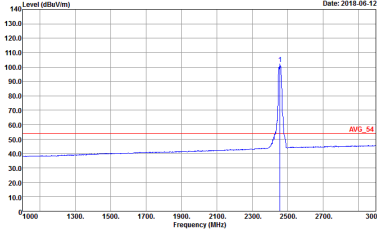


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH06 2437MHz - R	
1+2	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 820225-02 Setting : 20	Left Blank
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 820225-02 Setting : 20	Left Blank

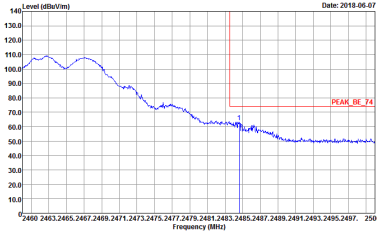
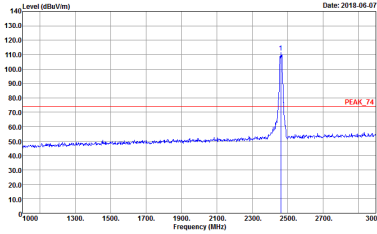
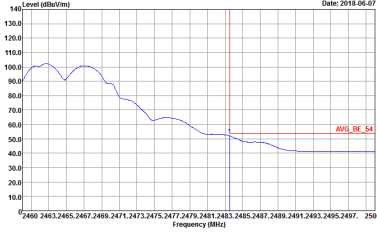
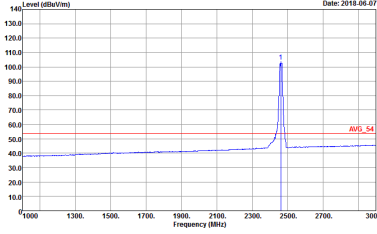


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH10 2457MHz	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 91200-HF HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 820225-02 Setting : 19	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 91200-HF HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 820225-02 Setting : 19
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 91200-HF HORIZONTAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 820225-02 Setting : 19	 Site : 03CH11-HY Condition : AVG_54 3m HORN 91200-HF HORIZONTAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 820225-02 Setting : 19

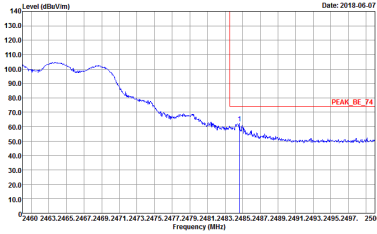
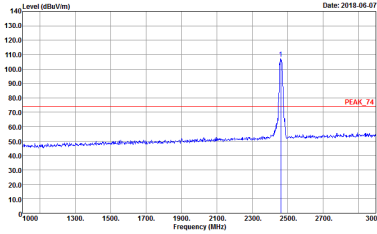
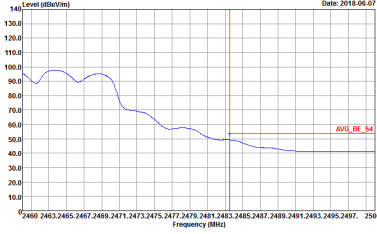
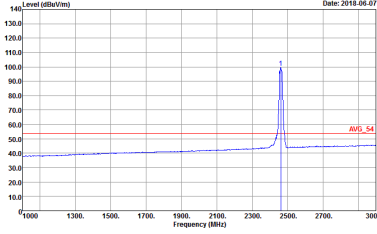


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH10 2457MHz	
1+2	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 820225-02 Setting : 19	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 820225-02 Setting : 19
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 820225-02 Setting : 19	 Site : 03CH11-HY Condition : AVG_54 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 820225-02 Setting : 19

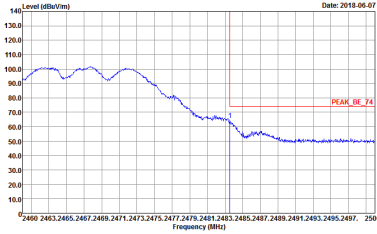
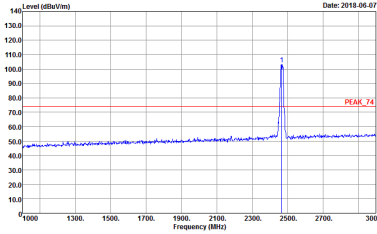
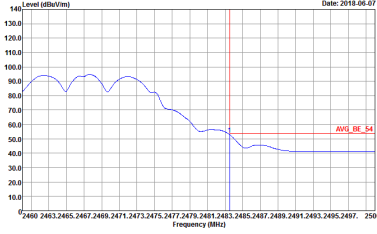
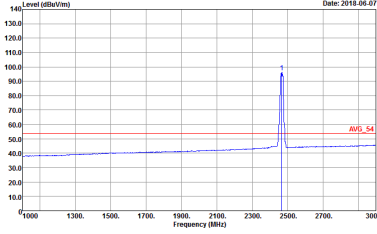


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH11 2462MHz	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 91200-HF HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 820225-02 Setting : 16.5	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 91200-HF HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 820225-02 Setting : 16.5
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 91200-HF HORIZONTAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 820225-02 Setting : 16.5	 Site : 03CH11-HY Condition : AVG_54 3m HORN 91200-HF HORIZONTAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 820225-02 Setting : 16.5

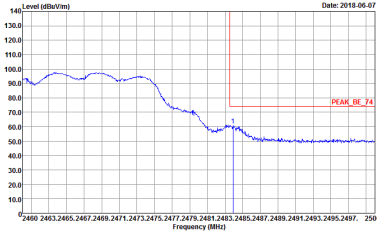
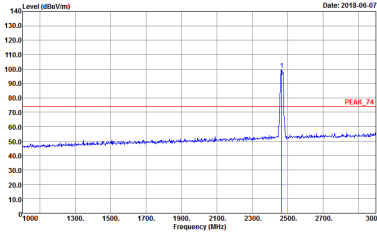
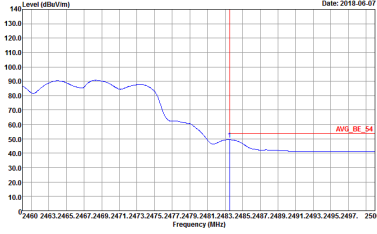
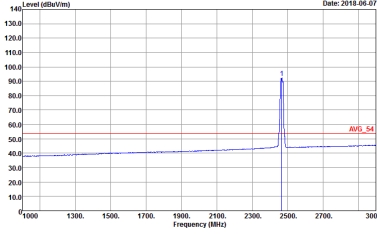


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH11 2462MHz	
1+2	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 820225-02 Setting : 16.5	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 820225-02 Setting : 16.5
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 820225-02 Setting : 16.5	 Site : 03CH11-HY Condition : AVG_54 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 820225-02 Setting : 16.5

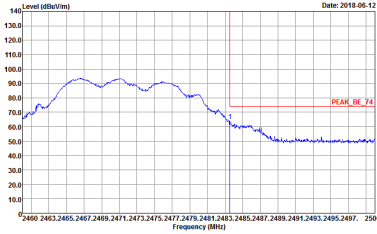
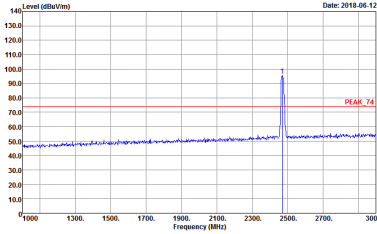
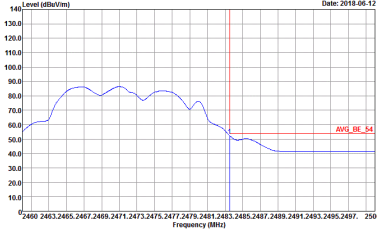
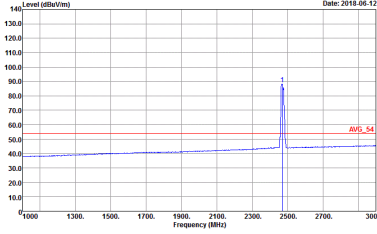


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH12 2467MHz	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 91200-HF HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 820225-02 Setting : 9.5	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 91200-HF HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 820225-02 Setting : 9.5
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 91200-HF HORIZONTAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 820225-02 Setting : 9.5	 Site : 03CH11-HY Condition : AVG_54 3m HORN 91200-HF HORIZONTAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 820225-02 Setting : 9.5

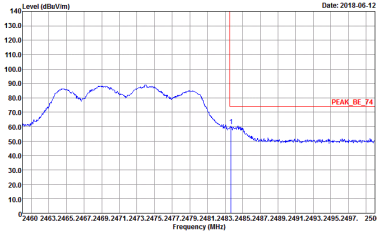
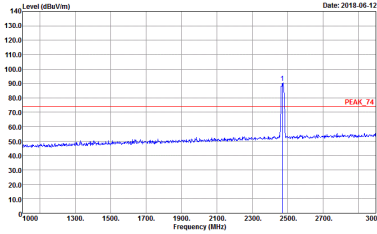
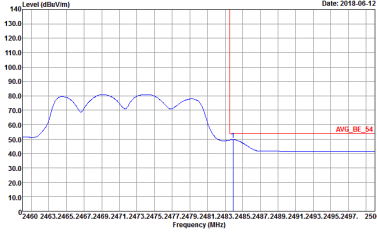
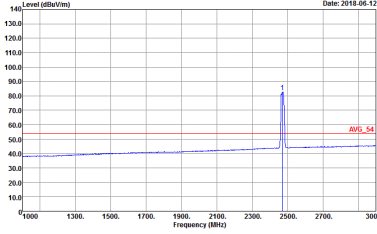


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH12 2467MHz	
1+2	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 820225-02 Setting : 9.5	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 820225-02 Setting : 9.5
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 820225-02 Setting : 9.5	 Site : 03CH11-HY Condition : AVG_54 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 820225-02 Setting : 9.5

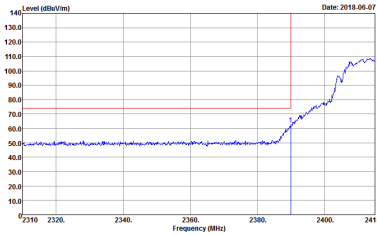
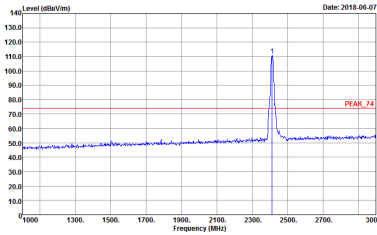
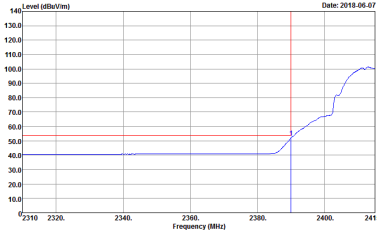
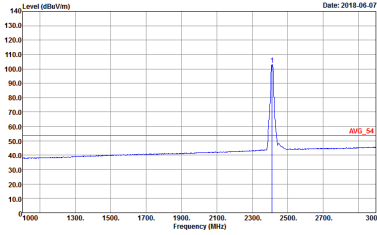


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH13 2472MHz	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 91200-HF HORIZONTAL Detector : Peak Project : 820225-02 Setting : 2.5 : #16	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 91200-HF HORIZONTAL Detector : Peak Project : 820225-02 Setting : 2.5 : #16
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 91200-HF HORIZONTAL Detector : Peak Project : 820225-02 Setting : 2.5 : #16	 Site : 03CH11-HY Condition : AVG_54 3m HORN 91200-HF HORIZONTAL Detector : Peak Project : 820225-02 Setting : 2.5 : #16

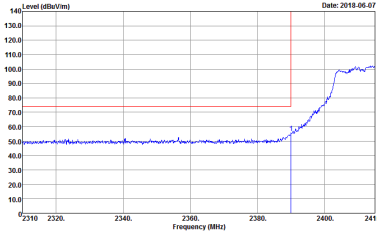
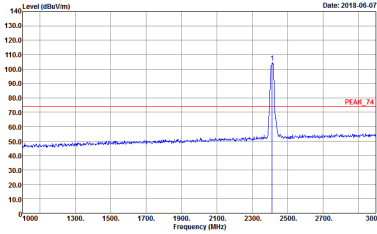
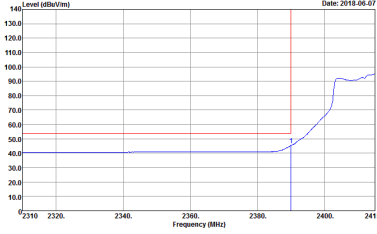
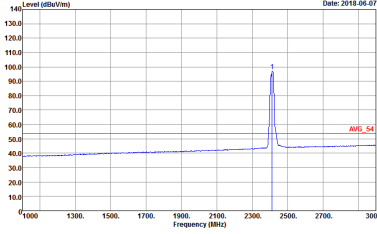


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH13 2472MHz	
1+2	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 91200-HF VERTICAL Detector : Peak Project : 820225-02 Setting : 2.5 : #16	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 91200-HF VERTICAL Detector : Peak Project : 820225-02 Setting : 2.5 : #16
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 91200-HF VERTICAL Detector : Peak Project : 820225-02 Setting : 2.5 : #16	 Site : 03CH11-HY Condition : AVG_54 3m HORN 91200-HF VERTICAL Detector : Peak Project : 820225-02 Setting : 2.5 : #16

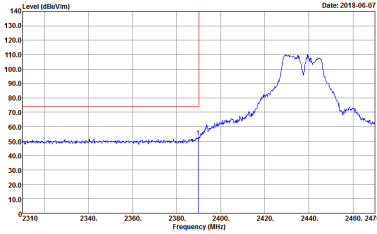
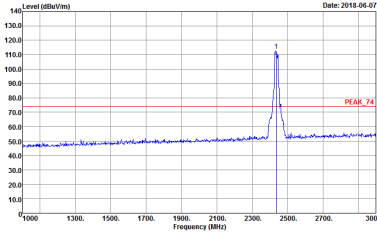
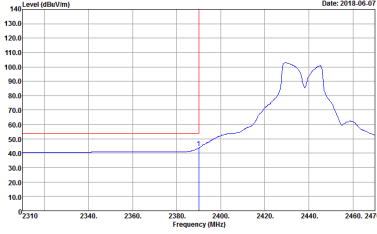
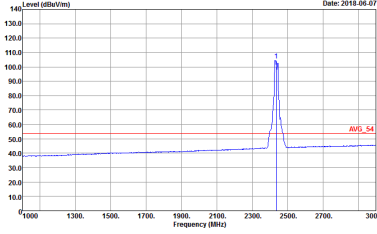
2.4GHz 2400~2483.5MHz
WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH01 2412MHz	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 91200-HF HORIZONTAL Detector : Peak Project : 820225-02 Setting : 17	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 91200-HF HORIZONTAL Detector : Peak Project : 820225-02 Setting : 17
	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 91200-HF HORIZONTAL Detector : Peak Project : 820225-02 Setting : 17	 Site : 03CH11-HY Condition : AVG_54 3m HORN 91200-HF HORIZONTAL Detector : Peak Project : 820225-02 Setting : 17

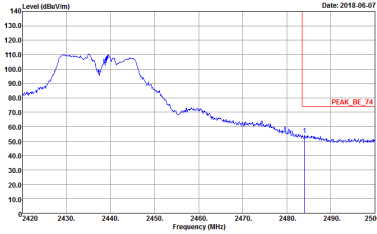
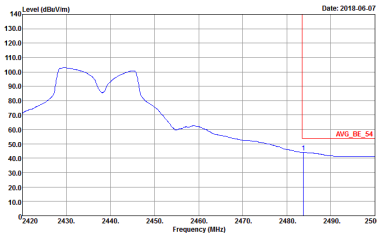


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH01 2412MHz	
1+2	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 820225-02 Setting : 17	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 820225-02 Setting : 17
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 820225-02 Setting : 17	 Site : 03CH11-HY Condition : AVG_54 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 820225-02 Setting : 17

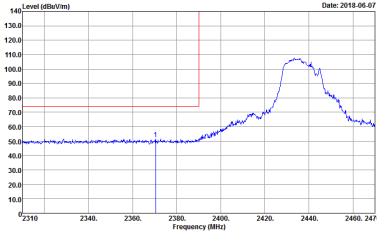
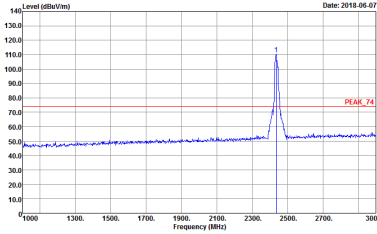
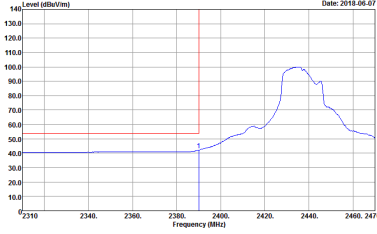
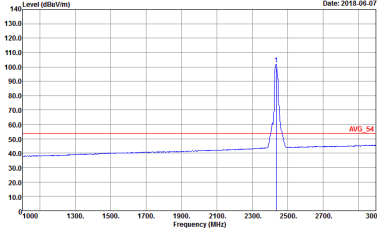


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH06 2437MHz - L	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 91200-HF HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Peak Project : 820225-02 Setting : 20	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 91200-HF HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Peak Project : 820225-02 Setting : 20
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 91200-HF HORIZONTAL Detector : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Peak Project : 820225-02 Setting : 20	 Site : 03CH11-HY Condition : AVG_54 3m HORN 91200-HF HORIZONTAL Detector : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Peak Project : 820225-02 Setting : 20

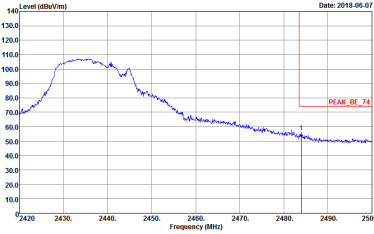
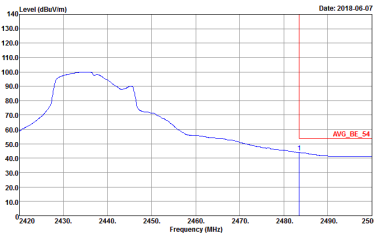


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH06 2437MHz - R	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 91200-HF HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 820225-02 Setting : 20	Left blank
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 91200-HF HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 820225-02 Setting : 20	Left blank

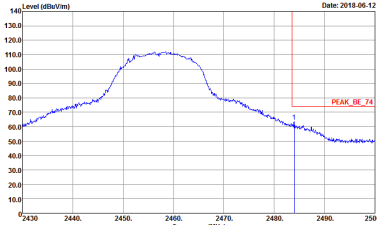
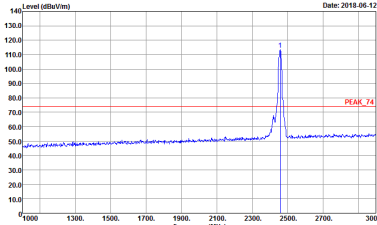
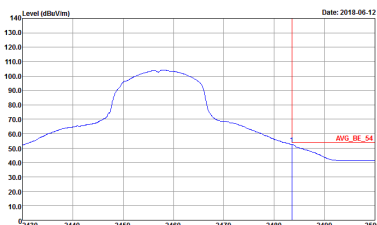
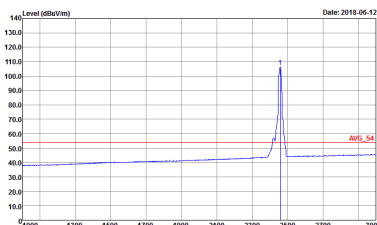


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH06 2437MHz - L	
1+2	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 820225-02 Setting : 20	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 820225-02 Setting : 20
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 820225-02 Setting : 20	 Site : 03CH11-HY Condition : AVG_54 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 820225-02 Setting : 20

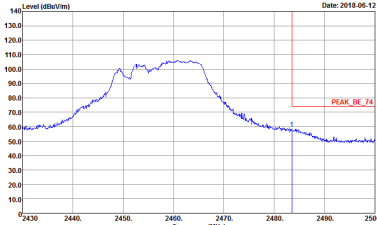
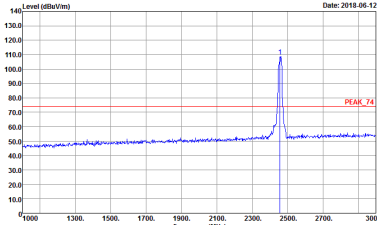
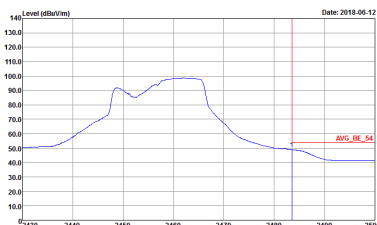
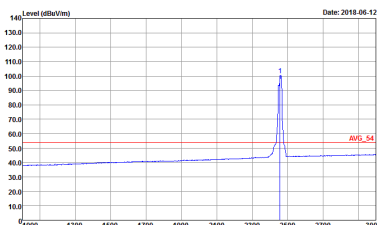


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH06 2437MHz - R	
1+2	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 820225-02 Setting : 20	Left Blank
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 820225-02 Setting : 20	Left Blank

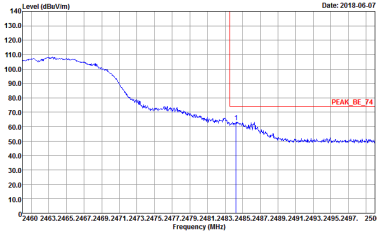
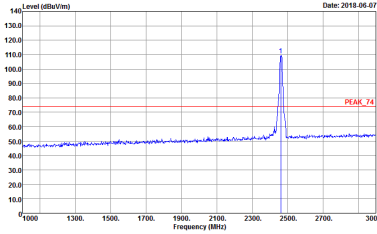
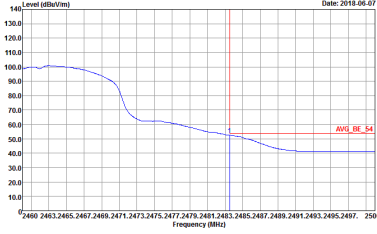
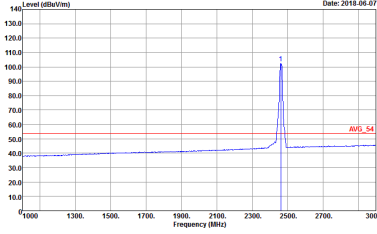


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH10 2457MHz	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 91200-HF HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Peak Project : 820225-02 Setting : 19	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 91200-HF HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Peak Project : 820225-02 Setting : 19
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 91200-HF HORIZONTAL Detector : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Peak Project : 820225-02 Setting : 19	 Site : 03CH11-HY Condition : AVG_54 3m HORN 91200-HF HORIZONTAL Detector : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Peak Project : 820225-02 Setting : 19

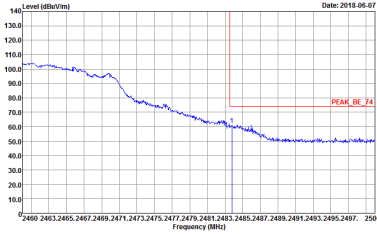
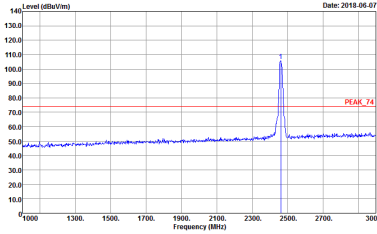
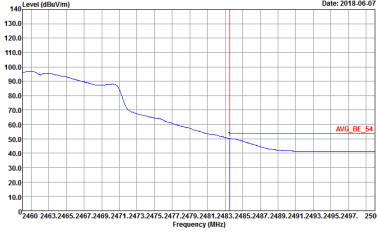
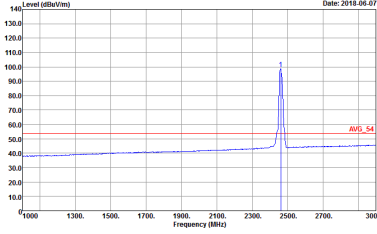


WIFI	2.4GHz 2400~2483.5MHz Fundamental @ 3m	
ANT	802.11n HT20 CH10 2457MHz	
1+2	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 820225-02 Setting : 19	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 820225-02 Setting : 19
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 820225-02 Setting : 19	 Site : 03CH11-HY Condition : AVG_54 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 820225-02 Setting : 19

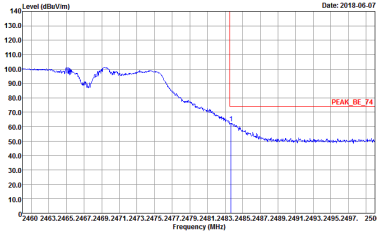
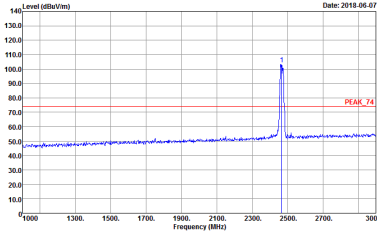
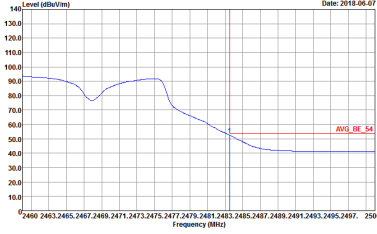
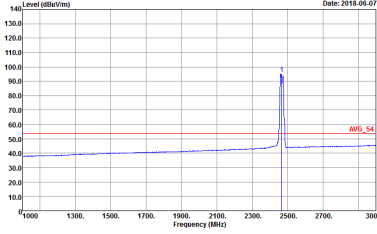


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH11 2462MHz	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH11-HV Condition : PEAK_BE_74 3m HORN 91200-HF HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Peak Project : 820225-02 Setting : 15.5	 Site : 03CH11-HV Condition : PEAK_74 3m HORN 91200-HF HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Peak Project : 820225-02 Setting : 15.5
Avg.	 Site : 03CH11-HV Condition : AVG_BE_54 3m HORN 91200-HF HORIZONTAL Detector : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Peak Project : 820225-02 Setting : 15.5	 Site : 03CH11-HV Condition : AVG_54 3m HORN 91200-HF HORIZONTAL Detector : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Peak Project : 820225-02 Setting : 15.5

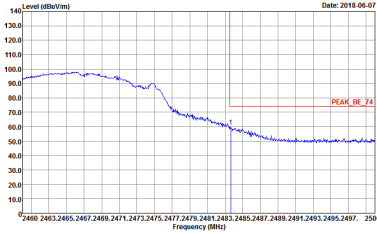
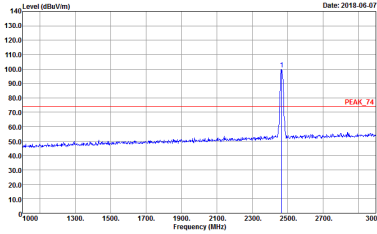
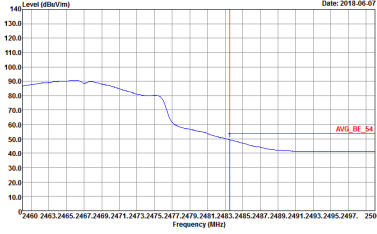
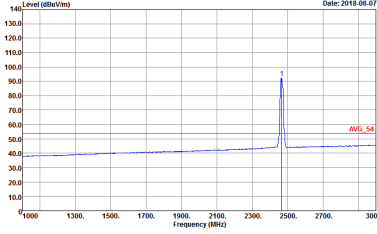


WIFI	2.4GHz 2400~2483.5MHz Fundamental @ 3m	
ANT	802.11n HT20 CH11 2462MHz	
1+2	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 91200-HF VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Setting : 820225-02 Setting : 15.5	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 91200-HF VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Setting : 820225-02 Setting : 15.5
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 91200-HF VERTICAL Detector : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Project : Peak Setting : 820225-02 Setting : 15.5	 Site : 03CH11-HY Condition : AVG_54 3m HORN 91200-HF VERTICAL Detector : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Project : Peak Setting : 820225-02 Setting : 15.5



WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH12 2467MHz	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 91200-HF HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 820225-02 Setting : 9.5	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 91200-HF HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 820225-02 Setting : 9.5
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 91200-HF HORIZONTAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 820225-02 Setting : 9.5	 Site : 03CH11-HY Condition : AVG_54 3m HORN 91200-HF HORIZONTAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 820225-02 Setting : 9.5



WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH12 2467MHz	
1+2	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 91200-HF VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Peak Project : 820225-02 Setting : 9.5	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 91200-HF VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Peak Project : 820225-02 Setting : 9.5
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 91200-HF VERTICAL Detector : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Peak Project : 820225-02 Setting : 9.5	 Site : 03CH11-HY Condition : AVG_54 3m HORN 91200-HF VERTICAL Detector : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Peak Project : 820225-02 Setting : 9.5