



FCC RADIO TEST REPORT

FCC ID : 2AOAG-3668
Equipment : Digital Media Receiver
Model Name : D9N29T
Applicant : Moxham L.L.C.
1320 Main Street Suite 300 Columbia, South Carolina, 29201
Standard : FCC Part 15 Subpart C §15.247

The testing was completed on Aug. 01, 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
FR831509-01C	01	Initial issue of report	Aug. 02, 2018

Summary of Test Result

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

Reviewed by: Joseph Lin

Report Producer: Polly Tsai

1 General Description

1.1 Product Feature of Equipment Under Test

Product Feature	
Equipment	Digital Media Receiver
Model Name	D9N29T
FCC ID	2AOAG-3668
EUT supports Radios application	WLAN 11b/g/n HT20 WLAN 11a/n HT20/HT40 WLAN 11ac VHT20/VHT40/VHT80 Bluetooth BR/EDR/LE

1.2 Product Specification of Equipment Under Test

Standards-related Product Specification	
Tx/Rx Channel Frequency Range	2412 MHz ~ 2472 MHz
Maximum (Peak) Output Power to antenna	<Ant. 1> 802.11b : 20.67 dBm (0.1167 W) 802.11g : 23.40 dBm (0.2188 W) 802.11n HT20 : 23.48 dBm (0.2228 W) <Ant. 2> 802.11b : 21.68 dBm (0.1472 W) 802.11g : 23.70 dBm (0.2344 W) 802.11n HT20 : 23.51 dBm (0.2244 W)
99% Occupied Bandwidth	<Ant. 1> 802.11b : 13.95 MHz 802.11g : 18.35 MHz 802.11n HT20 : 19.85 MHz <Ant. 2> 802.11b : 14.00 MHz 802.11g : 19.60 MHz 802.11n HT20 : 22.80 MHz
Antenna Type / Gain	Ant. 1 : Fixed Internal Antenna type with gain 3.3 dBi Ant. 2 : Fixed Internal Antenna type with gain 3.3 dBi
Type of Modulation	802.11b : DSSS (DBPSK / DQPSK / CCK) 802.11g/n : OFDM (BPSK / QPSK / 16QAM / 64QAM)

1.3 Modification of EUT

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



1.4 Testing Location

Sporton Lab is accredited to ISO 17025 by Taiwan Accreditation Foundation (TAF code : 1190) and the FCC designation No. TW1190 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	03CH07-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
- ♦ ANSI C63.10-2013

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

2 Test Configuration of Equipment Under Test

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

2.1 Carrier Frequency and Channel

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

2.2 Test Mode

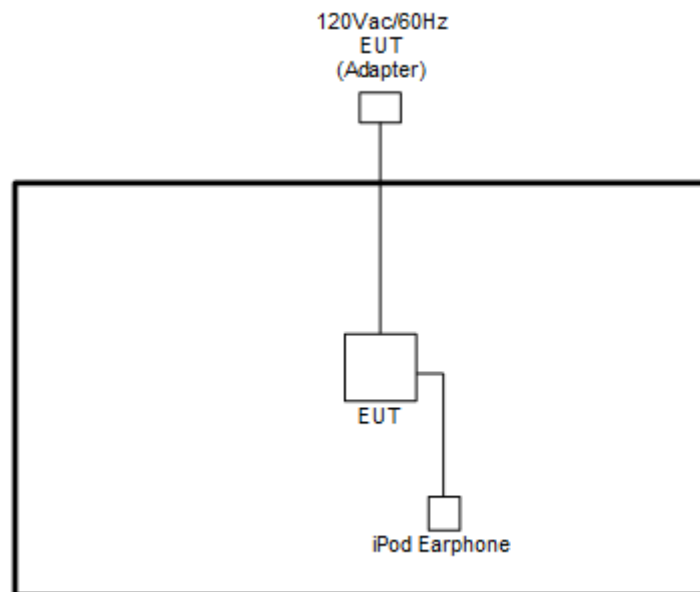
Final test modes are considering the modulation and worse data rates as below table.

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

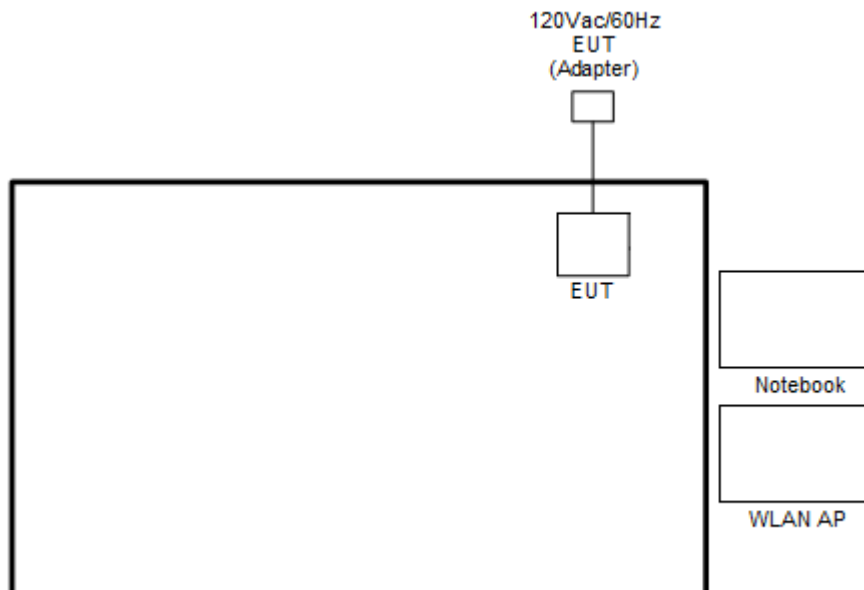
Test Cases	
AC Conducted Emission	Mode 1 :WLAN (2.4GHz) Link + Play News + Charging from Adapter Mode 2 :Bluetooth Link + Play MP3 + Charging from Adapter
Remark: The worst case of conducted emission is mode 2; only the test data of it was reported.	

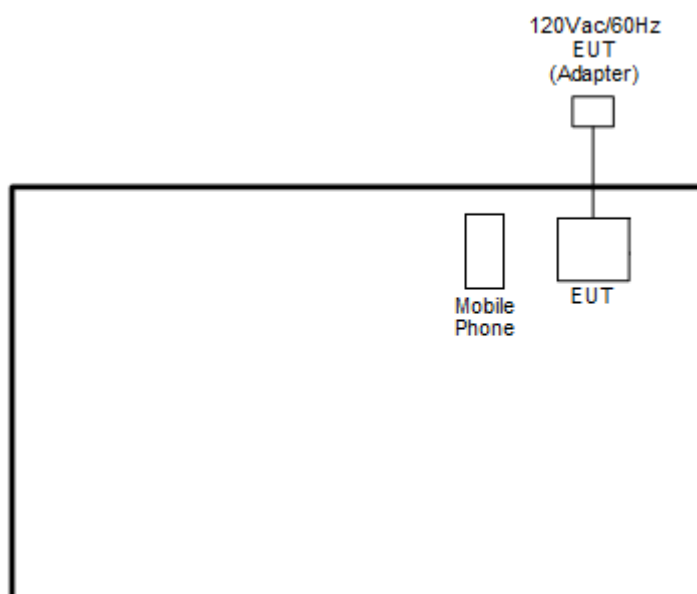
2.3 Connection Diagram of Test System

<WLAN Tx Mode>



<AC Conducted Emission Mode for Notebook Playing News>



<AC Conducted Emission Mode for Mobile Phone Playing MP3>

2.4 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model Name	FCC ID	Data Cable	Power Cord
1.	WLAN AP	ASUS	RT-AC66U	MSQ-RTAC66U	N/A	Unshielded, 1.8 m
2.	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
3.	Smart Phone	Acer	Z530	HLZDMZ530	N/A	N/A
4.	iPod Earphone	Apple	N/A	Verification	Unshielded, 1.0 m	N/A

2.5 EUT Operation Test Setup

The RF test items, utility “Tool” was installed in EUT 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.

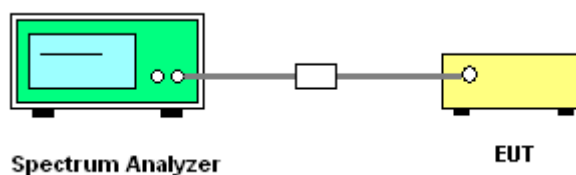
3.1.2 Measuring Instruments

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) is set 1-5% of the emission bandwidth and set the Video bandwidth (VBW) $\geq 3 * RBW$.
6. Measure and record the results in the test report.

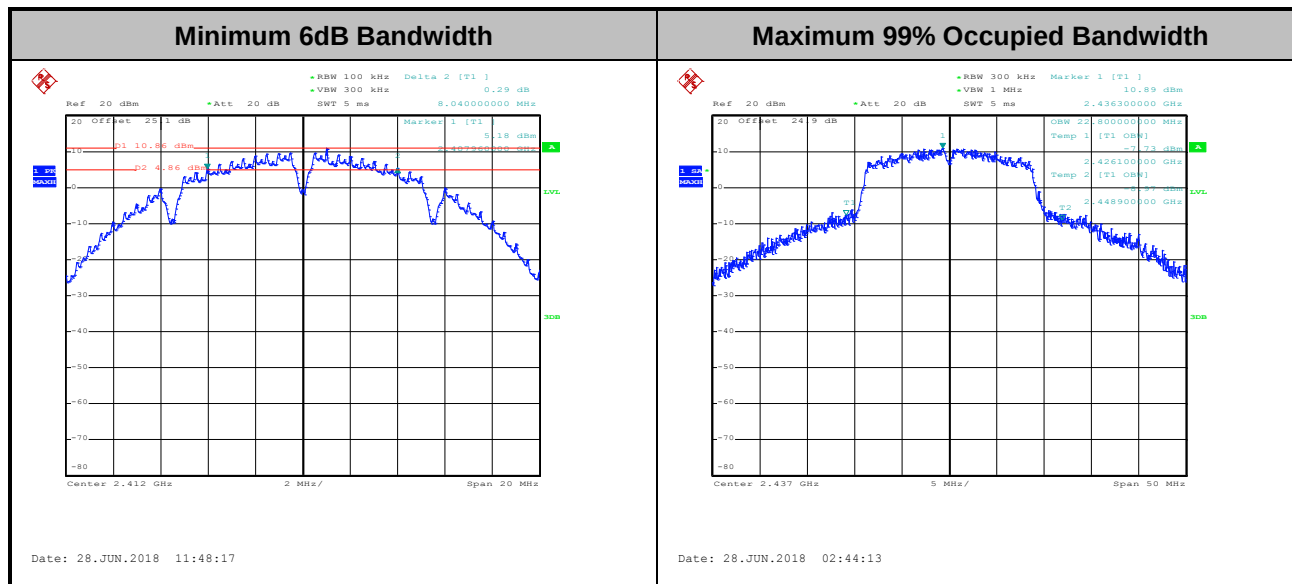
3.1.4 Test Setup





3.1.5 Test Result of 6dB and 99% Occupied Bandwidth

Please refer to Appendix A.



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

3.2 Output Power Measurement

3.2.1 Limit of Output Power

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

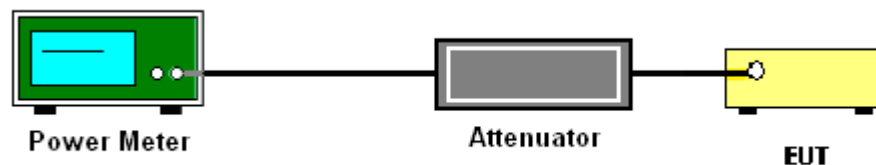
3.2.2 Measuring Instruments

See list of measuring equipment of this test report.

3.2.3 Test Procedures

1. For 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 9.2.3.1 Method AVGPM.
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.

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.

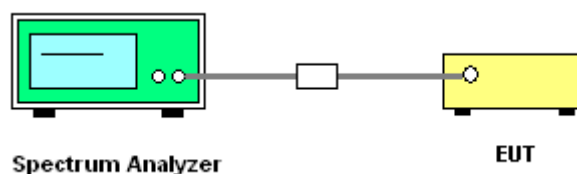
3.3.2 Measuring Instruments

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.

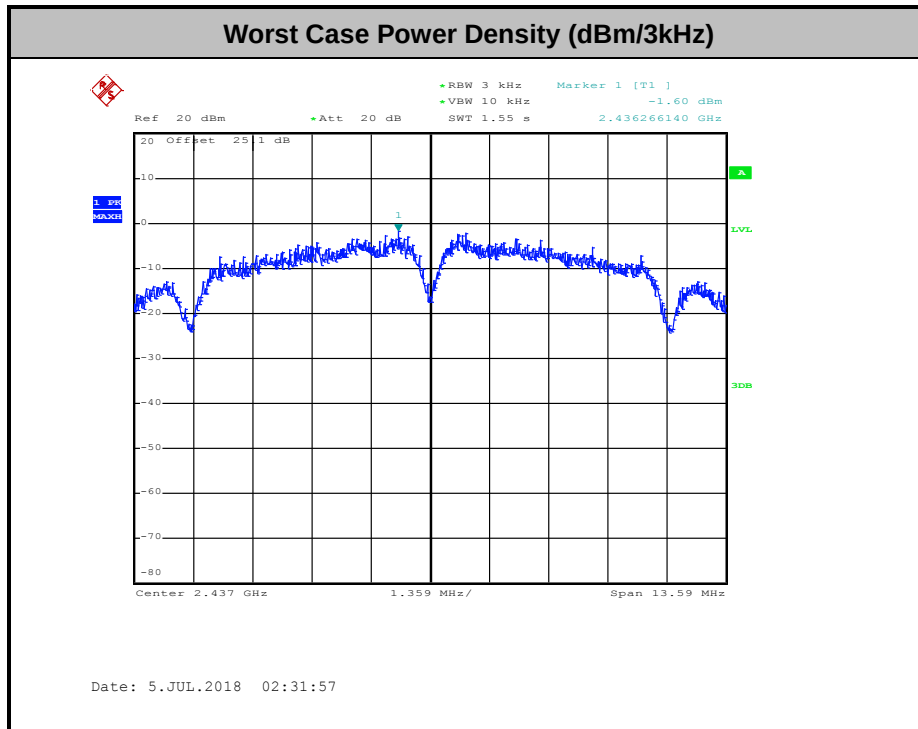
3.3.4 Test Setup





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.

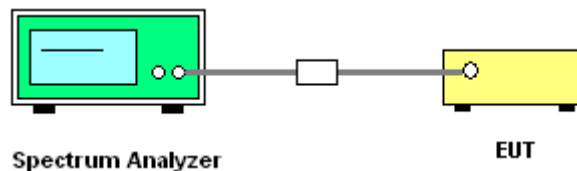
3.4.2 Measuring Instruments

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



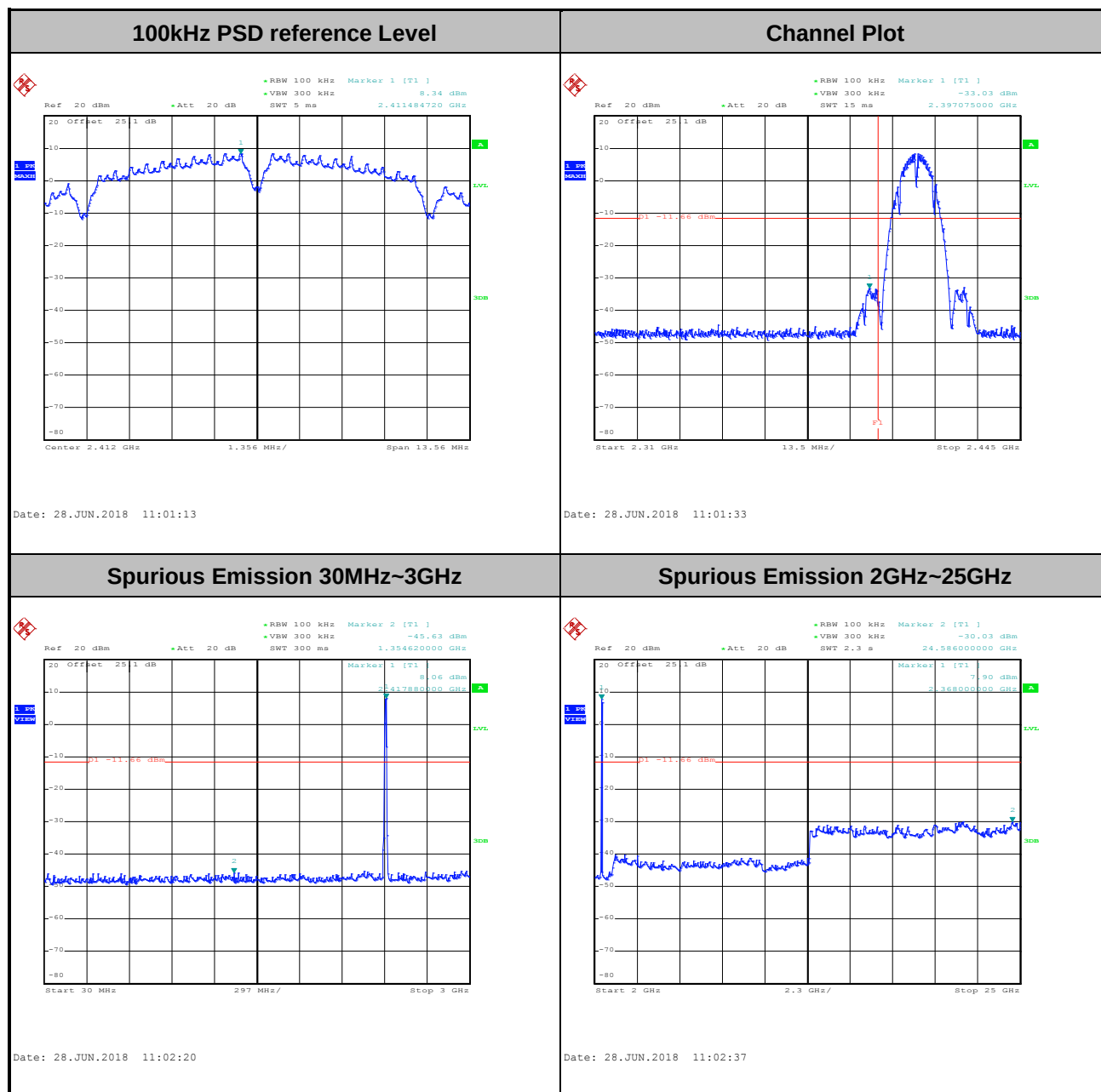


3.4.5 Test Result of Conducted Band Edges and Spurious Emission

Test Engineer :	Kai Liao, Rebecca Li, and Luffy Lin	Temperature :	21~25°C
		Relative Humidity :	51~54%

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

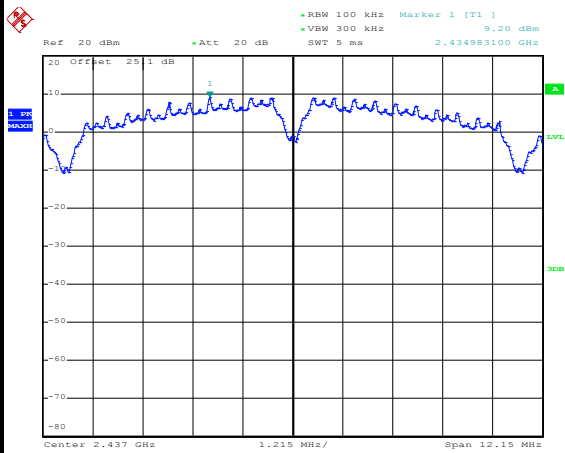
Test Mode :	802.11b	Test Channel :	01
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Test Mode :	802.11b	Test Channel :	06
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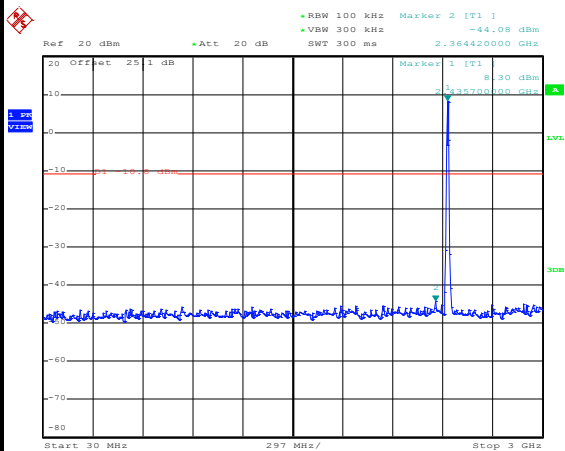
100kHz PSD reference Level



Date: 28.JUN.2018 11:11:54

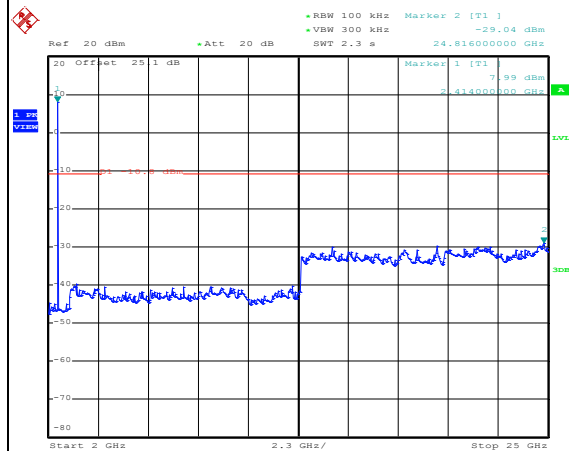
Channel Plot

Spurious Emission 30MHz~3GHz



Date: 28.JUN.2018 11:12:23

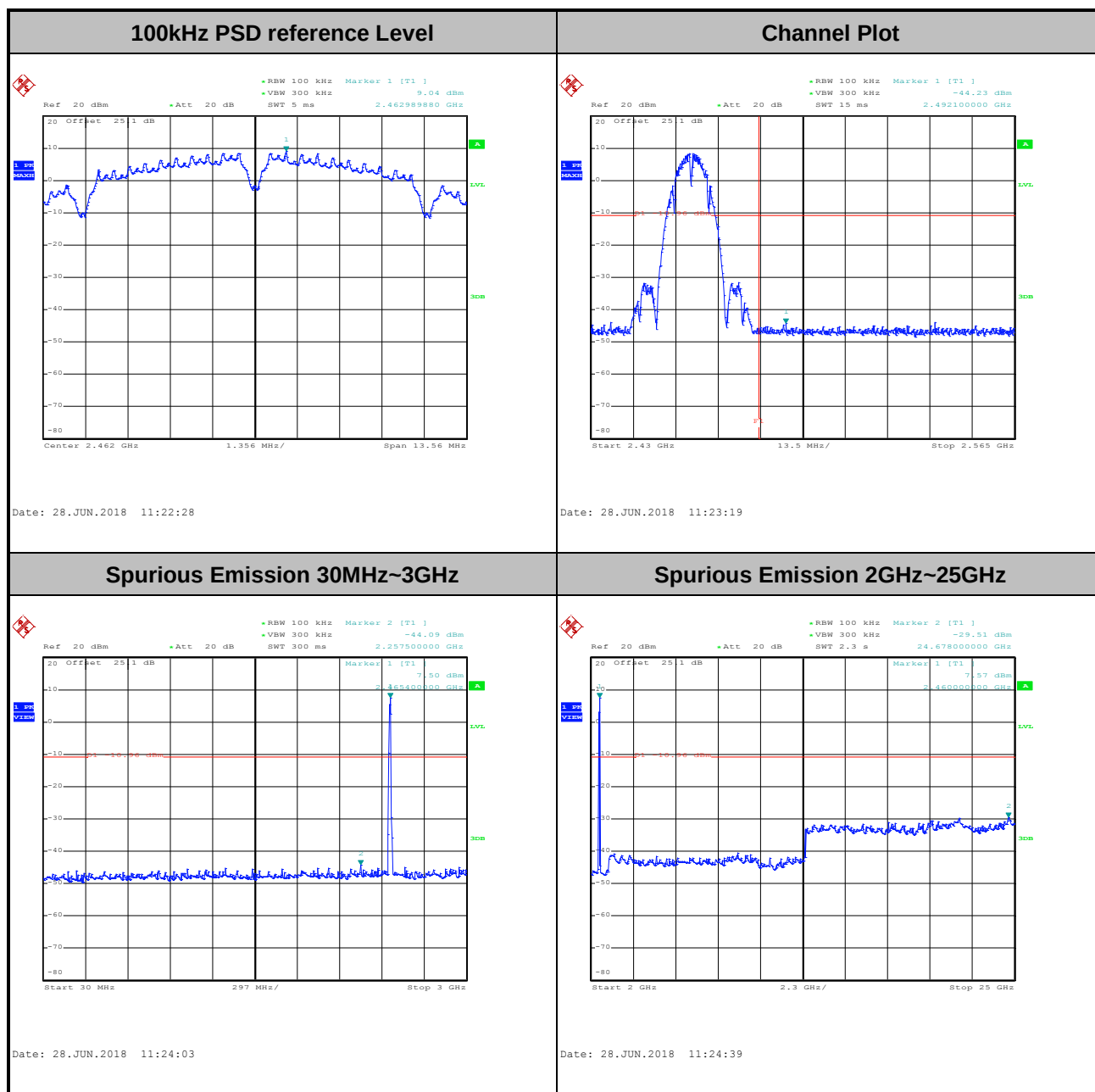
Spurious Emission 2GHz~25GHz



Date: 28.JUN.2018 11:13:15



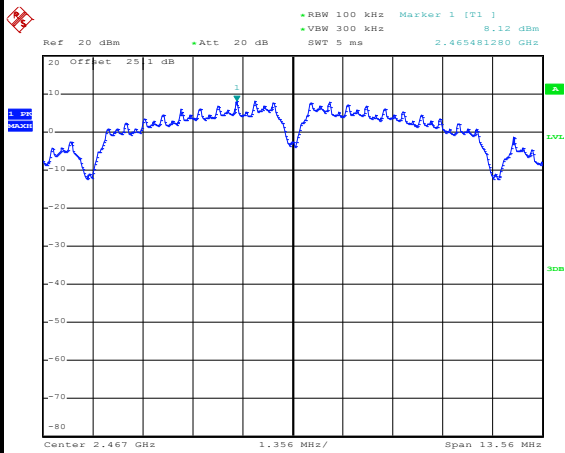
Test Mode :	802.11b	Test Channel :	11
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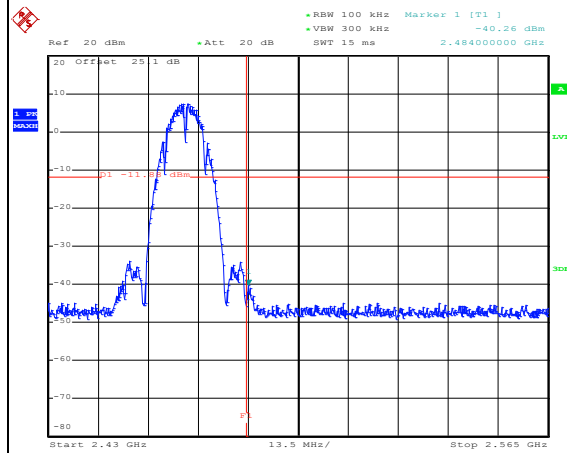
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100kHz PSD reference Level



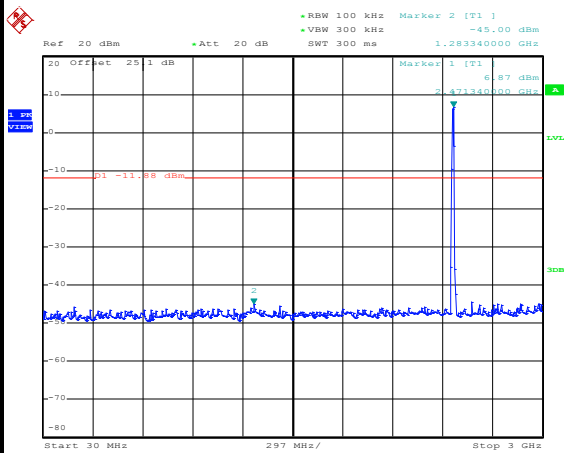
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Channel Plot



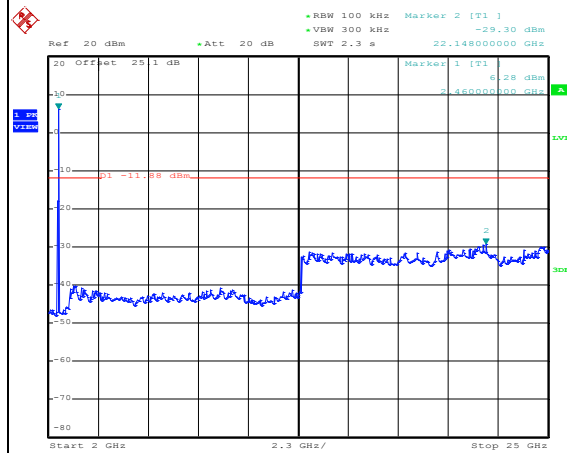
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Spurious Emission 30MHz~3GHz



Date: 28.JUN.2018 11:33:35

Spurious Emission 2GHz~25GHz

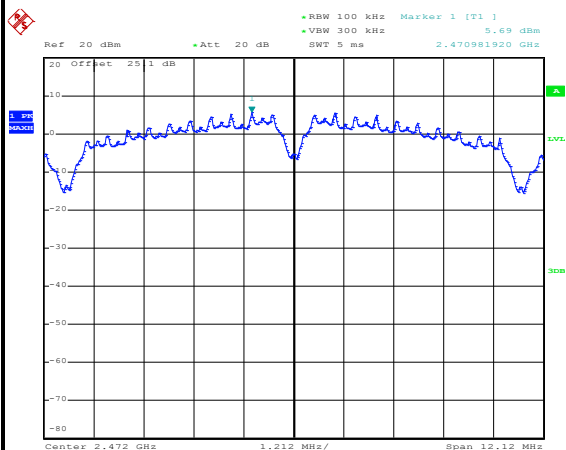


Date: 28.JUN.2018 11:34:19



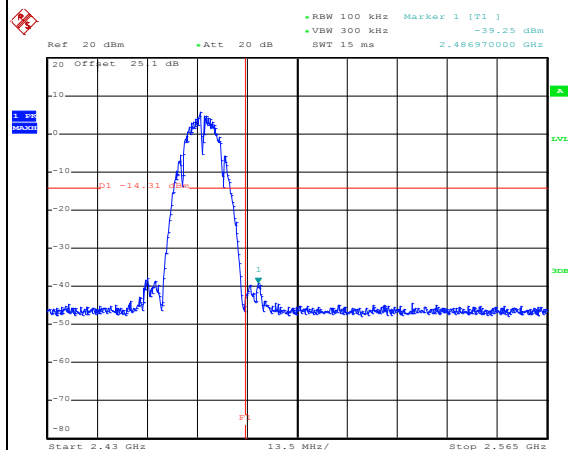
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100kHz PSD reference Level



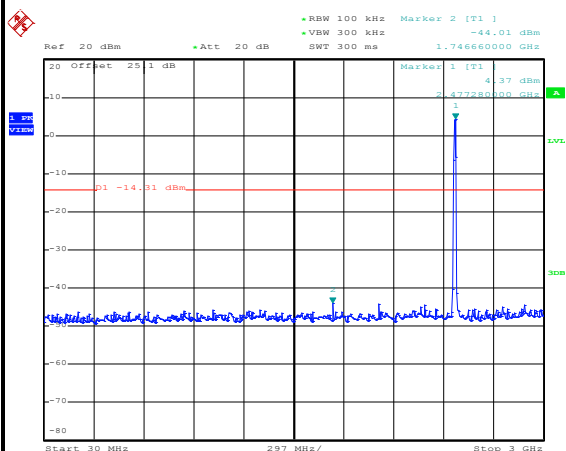
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Channel Plot



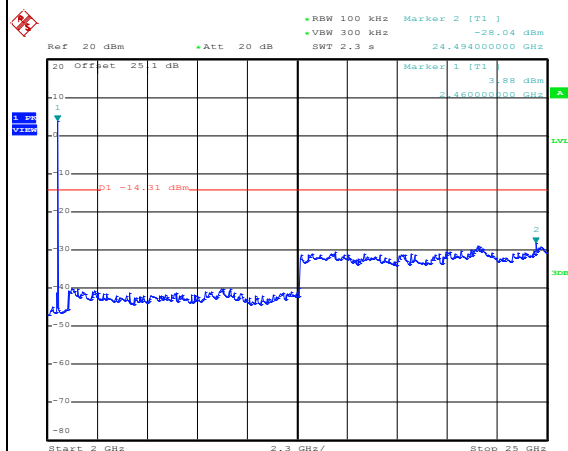
Date: 28.JUN.2018 11:42:37

Spurious Emission 30MHz~3GHz



Date: 28.JUN.2018 11:43:37

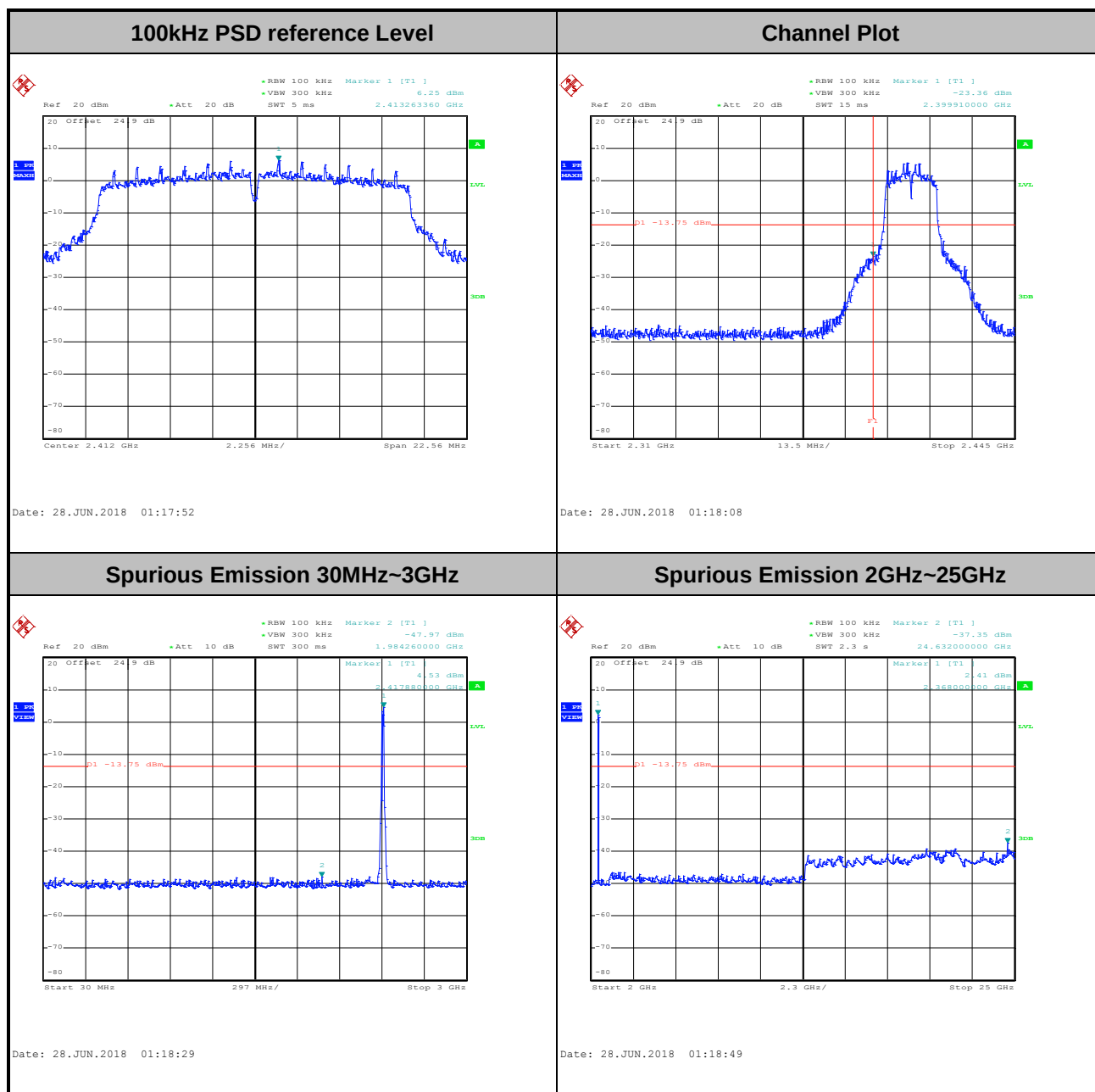
Spurious Emission 2GHz~25GHz



Date: 28.JUN.2018 11:45:01



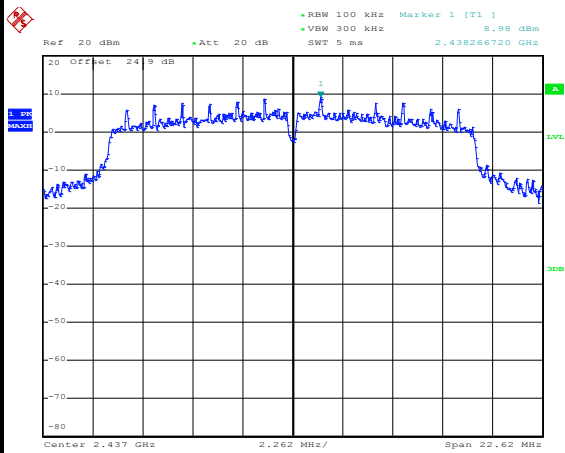
Test Mode :	802.11g	Test Channel :	01
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Test Mode :	802.11g	Test Channel :	06
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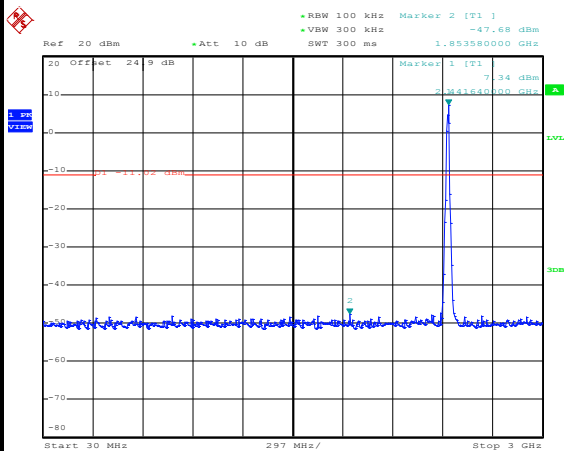
100kHz PSD reference Level



Date: 28.JUN.2018 01:21:00

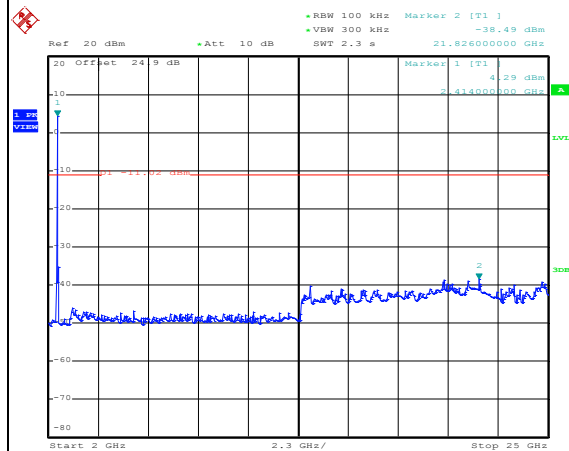
Channel Plot

Spurious Emission 30MHz~3GHz



Date: 28.JUN.2018 01:21:24

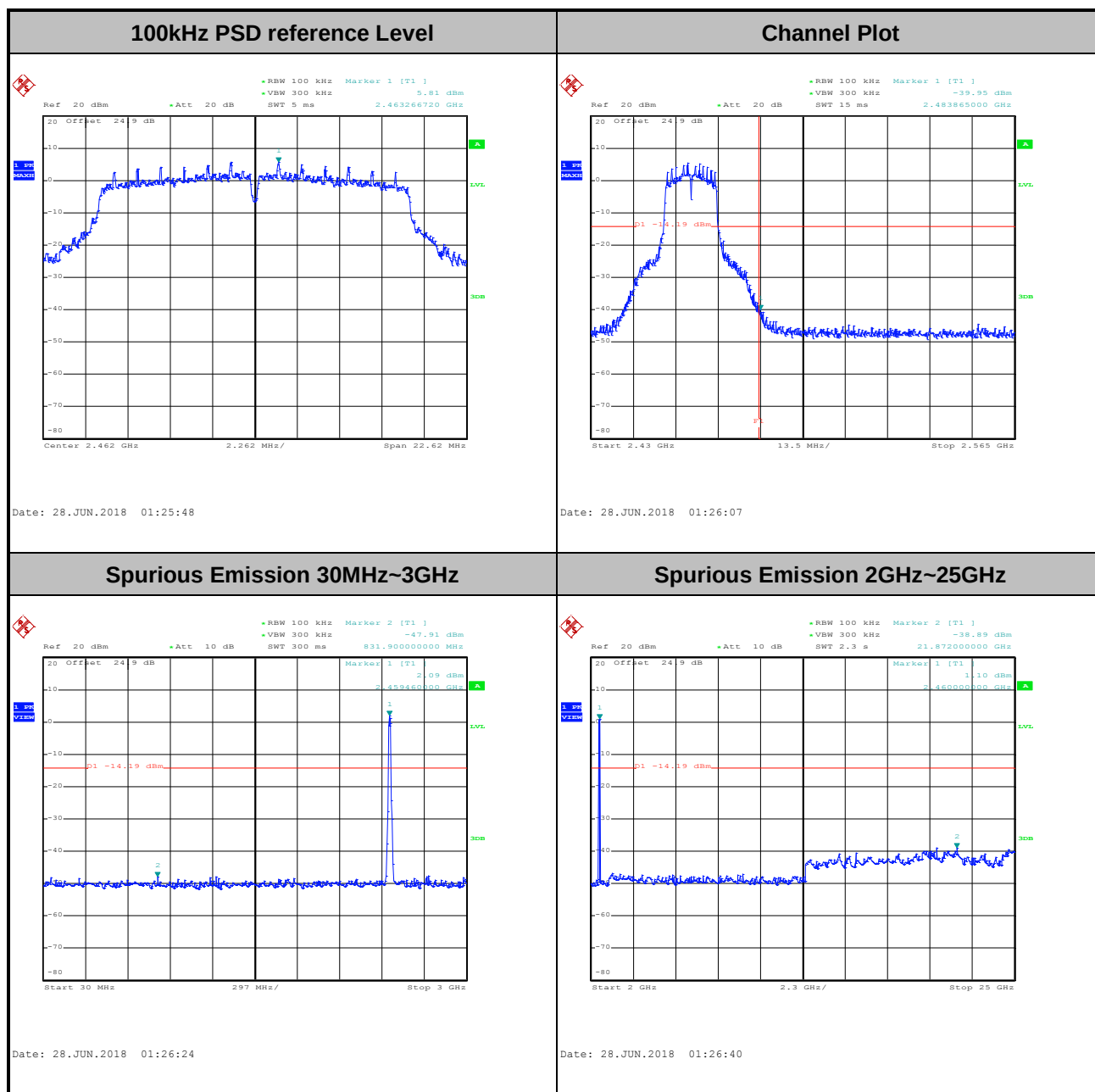
Spurious Emission 2GHz~25GHz



Date: 28.JUN.2018 01:21:39

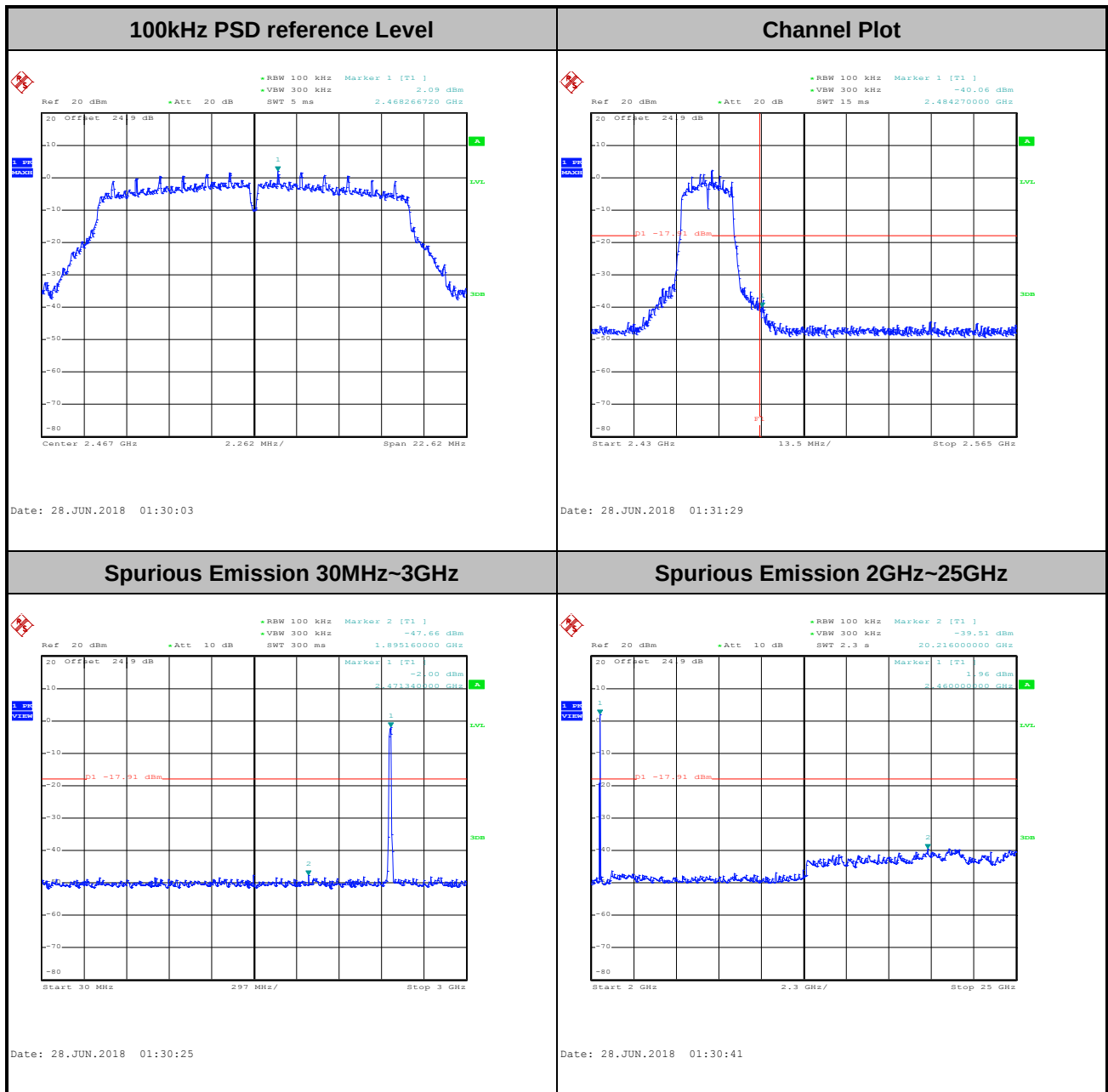


Test Mode :	802.11g	Test Channel :	11
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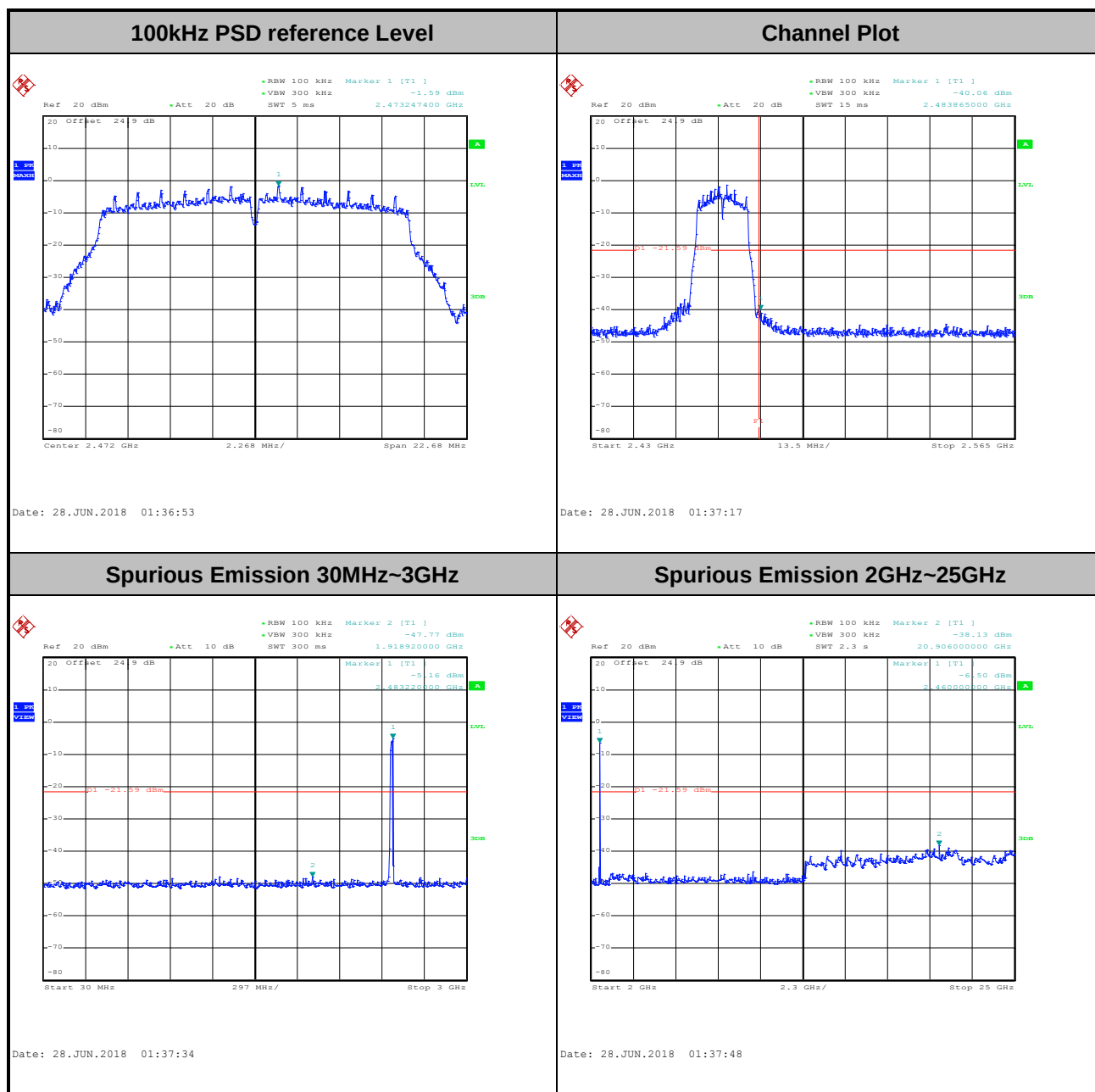


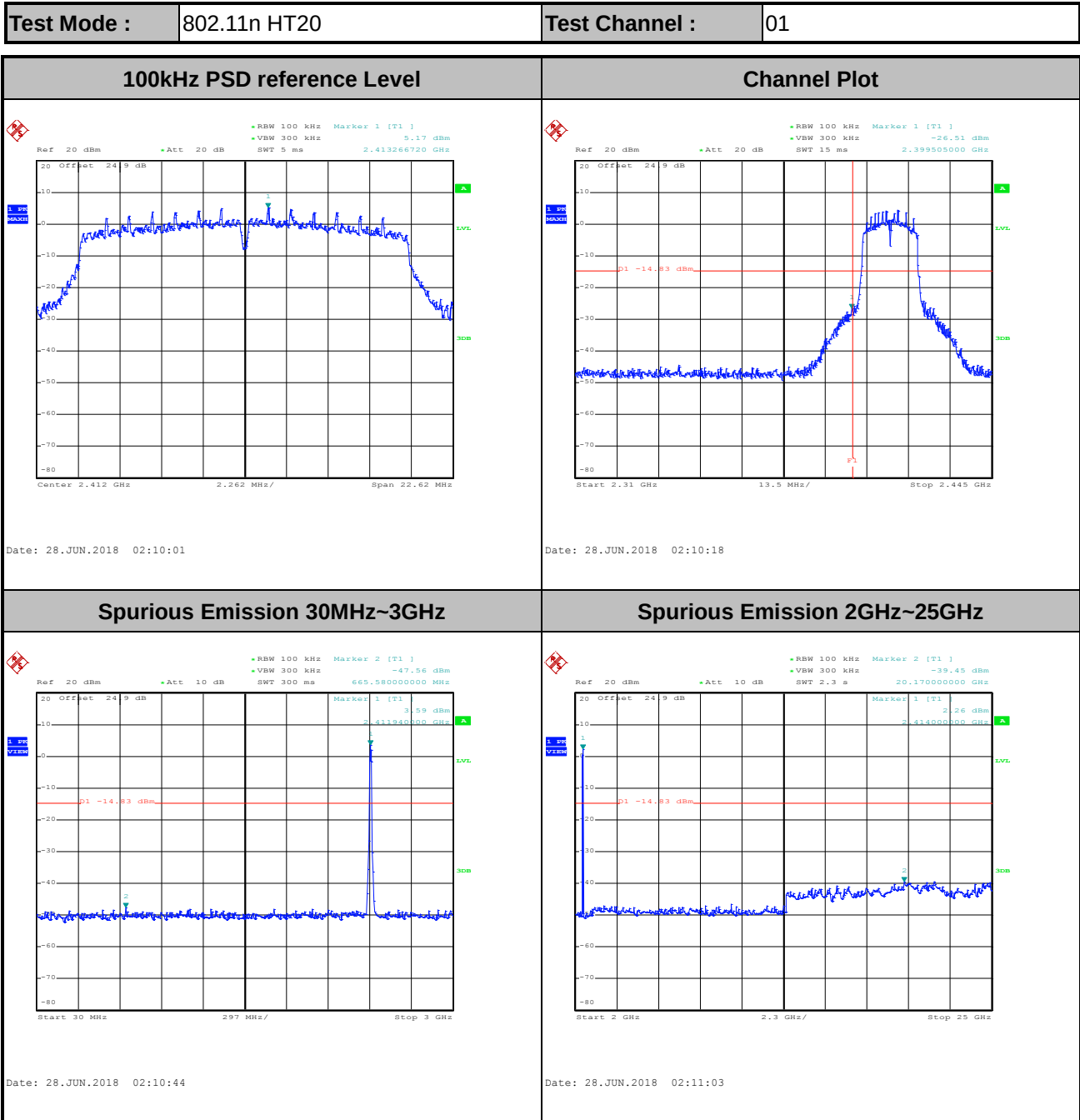
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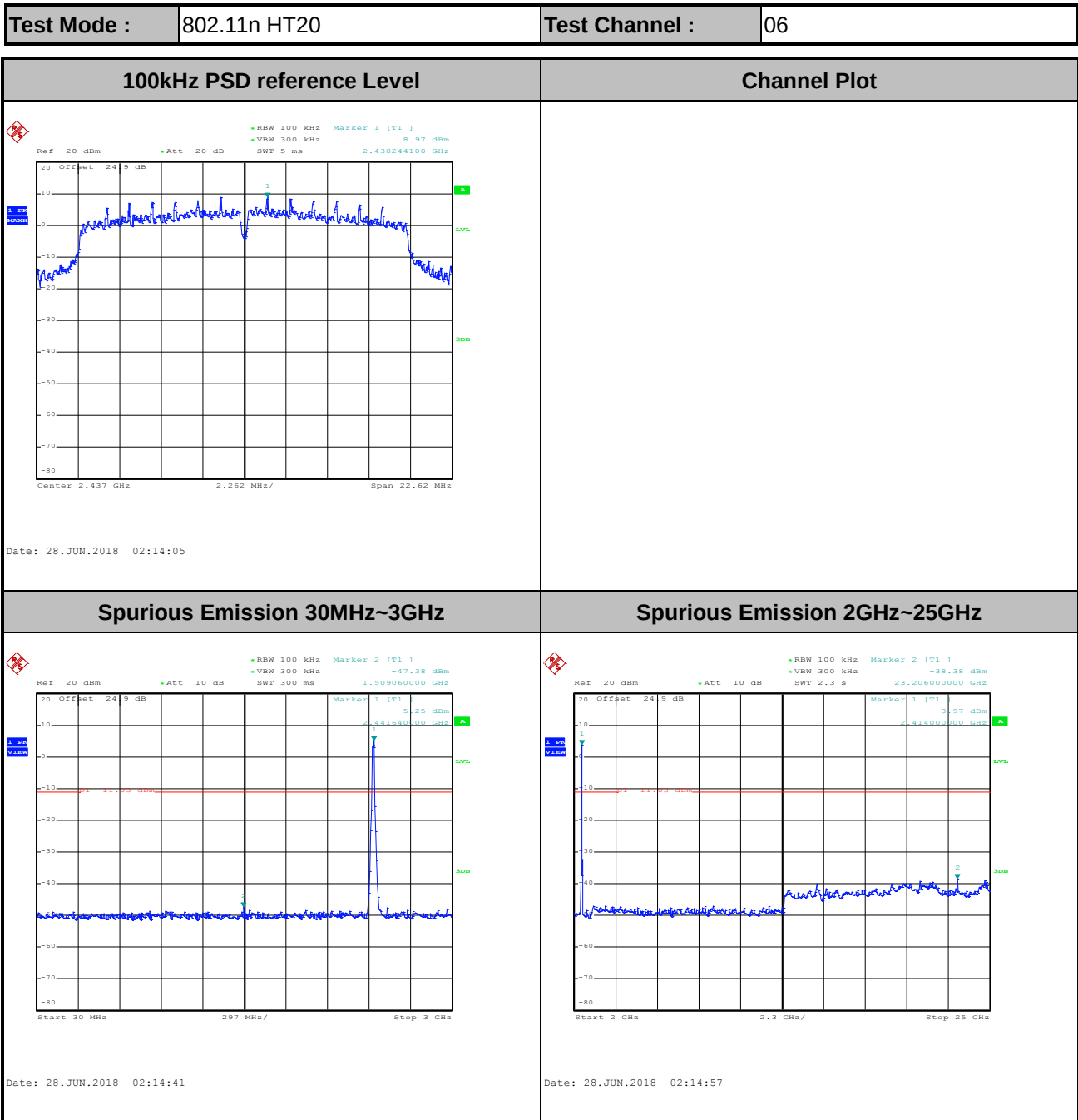




Test Mode :	802.11g	Test Channel :	13
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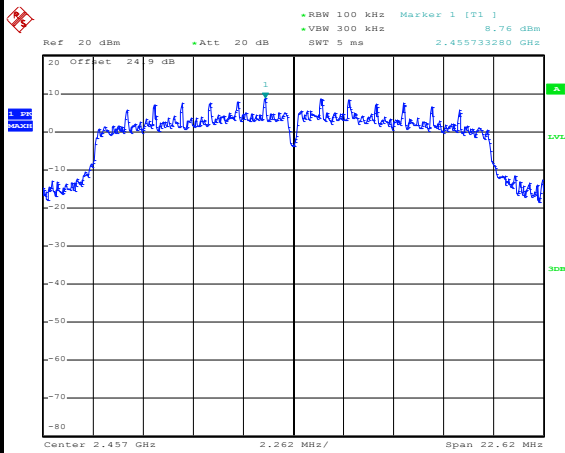






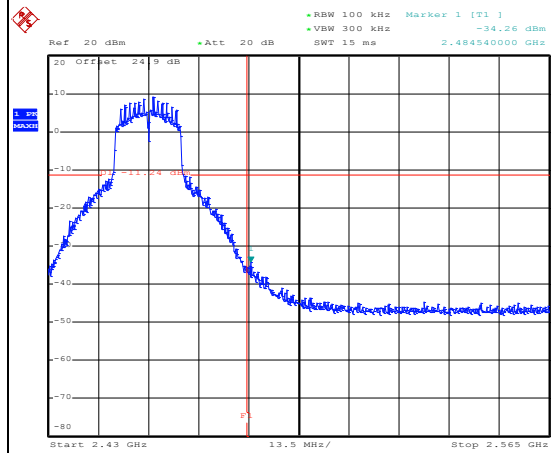
Test Mode :	802.11n HT20	Test Channel :	10
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100kHz PSD reference Level



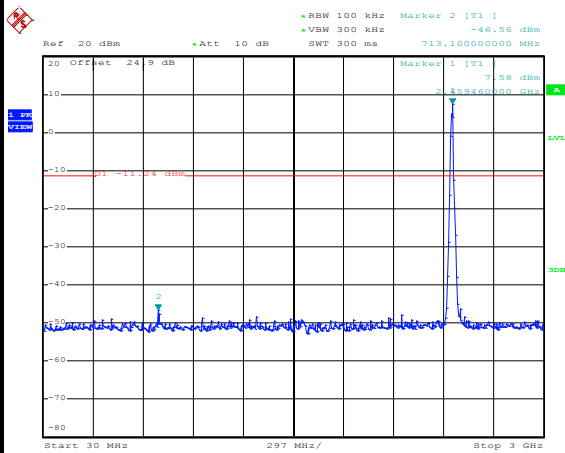
Date: 31.JUL.2018 06:36:23

Channel Plot



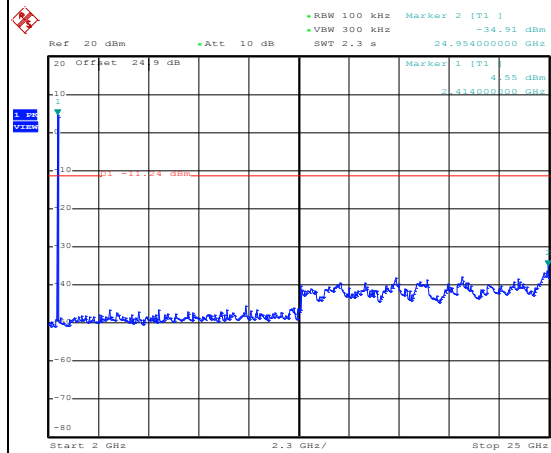
Date: 31.JUL.2018 06:42:57

Spurious Emission 30MHz~3GHz



Date: 31.JUL.2018 06:43:17

Spurious Emission 2GHz~25GHz

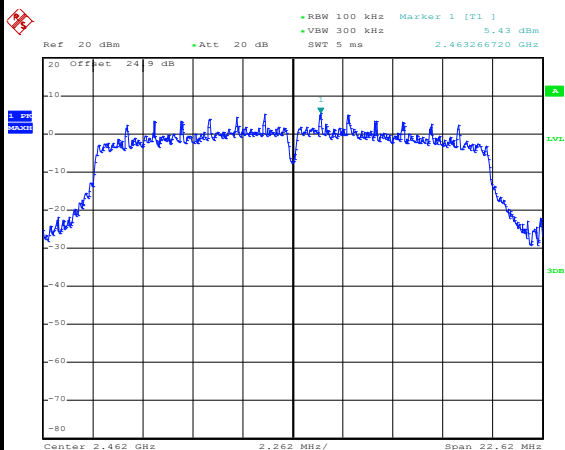


Date: 31.JUL.2018 06:43:43



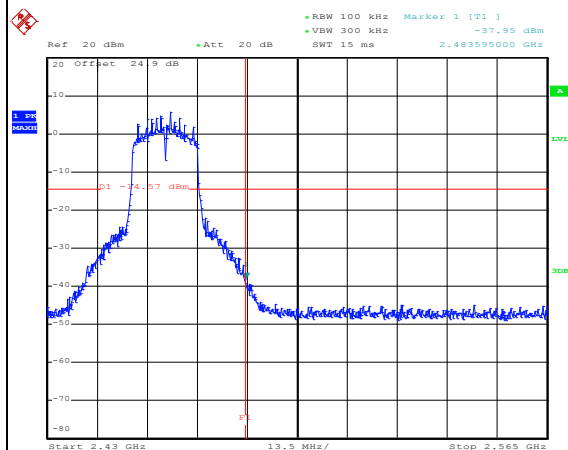
Test Mode :	802.11n HT20	Test Channel :	11
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100kHz PSD reference Level



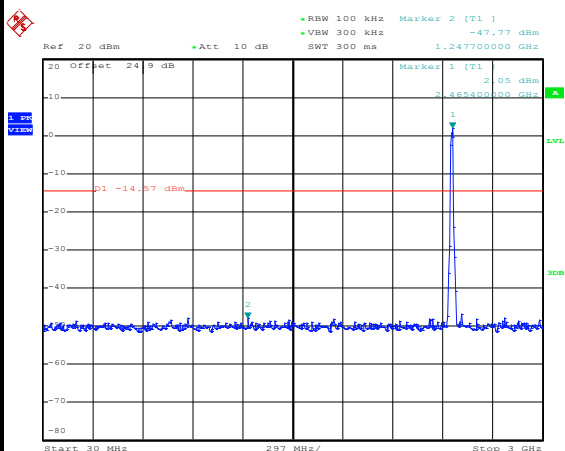
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Channel Plot



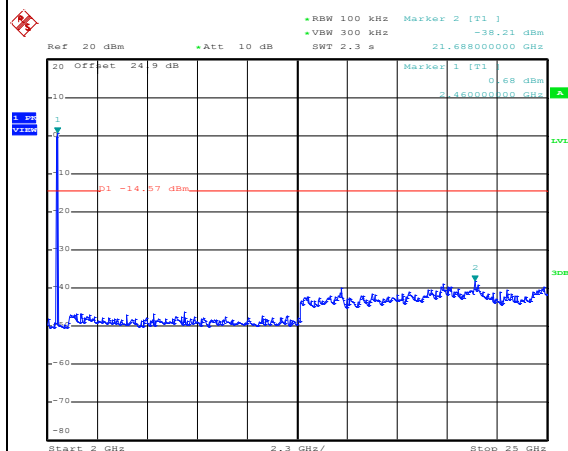
Date: 28.JUN.2018 02:19:22

Spurious Emission 30MHz~3GHz



Date: 28.JUN.2018 02:19:41

Spurious Emission 2GHz~25GHz

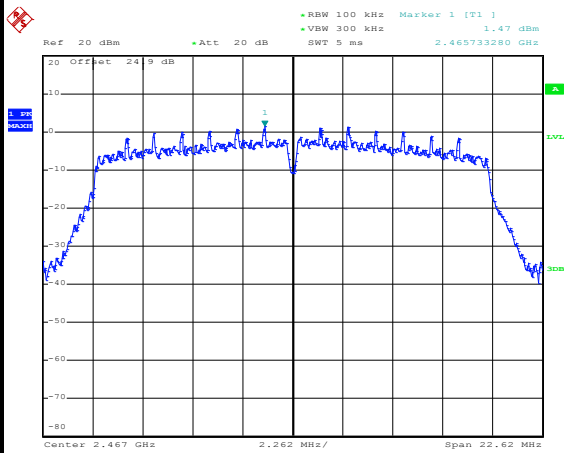


Date: 28.JUN.2018 02:19:59



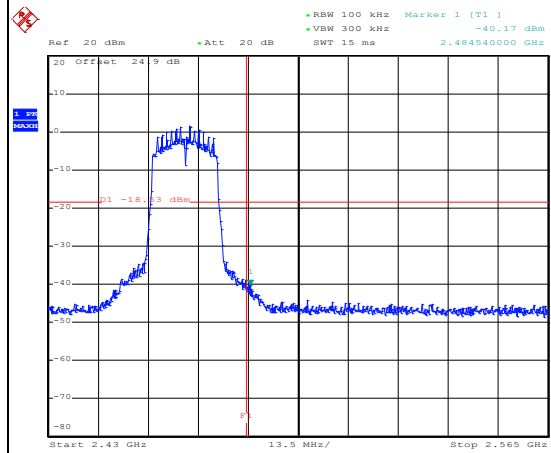
Test Mode :	802.11n HT20	Test Channel :	12
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100kHz PSD reference Level



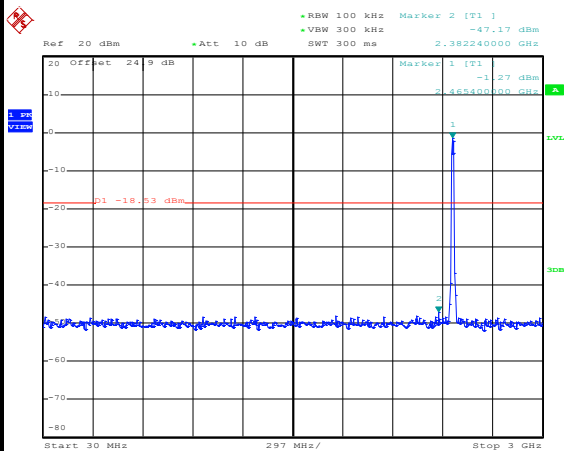
Date: 28.JUN.2018 02:23:31

Channel Plot



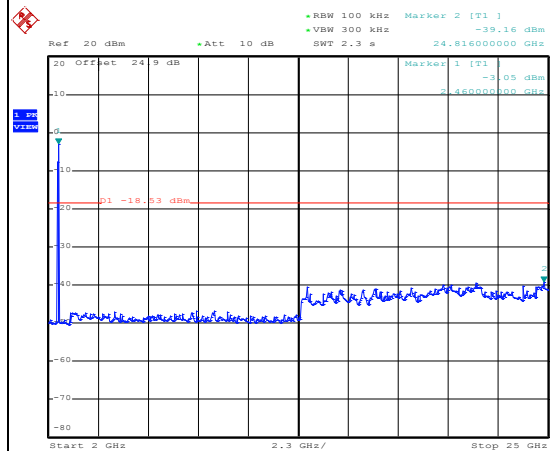
Date: 28.JUN.2018 02:26:23

Spurious Emission 30MHz~3GHz



Date: 28.JUN.2018 02:24:17

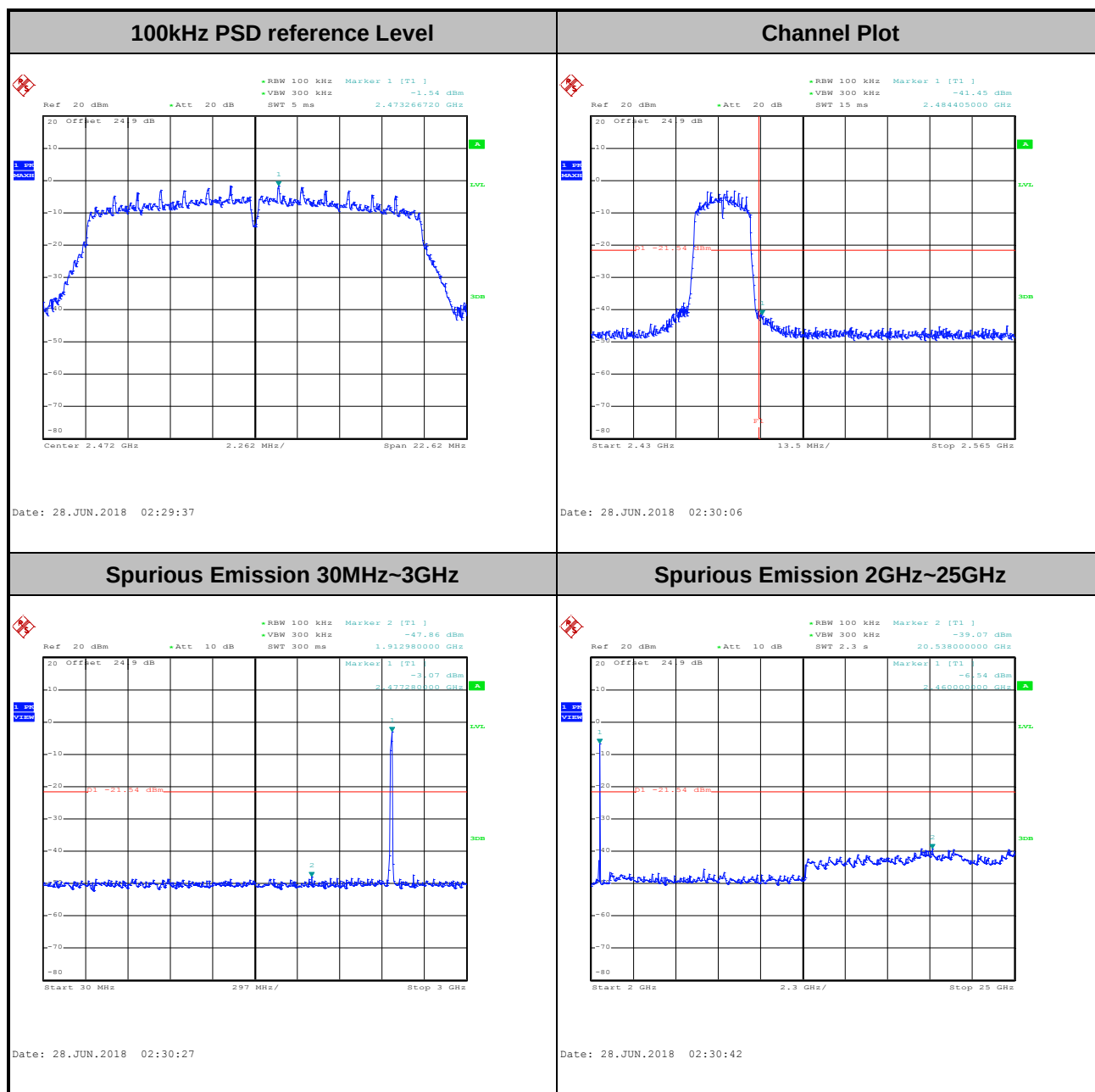
Spurious Emission 2GHz~25GHz



Date: 28.JUN.2018 02:24:38



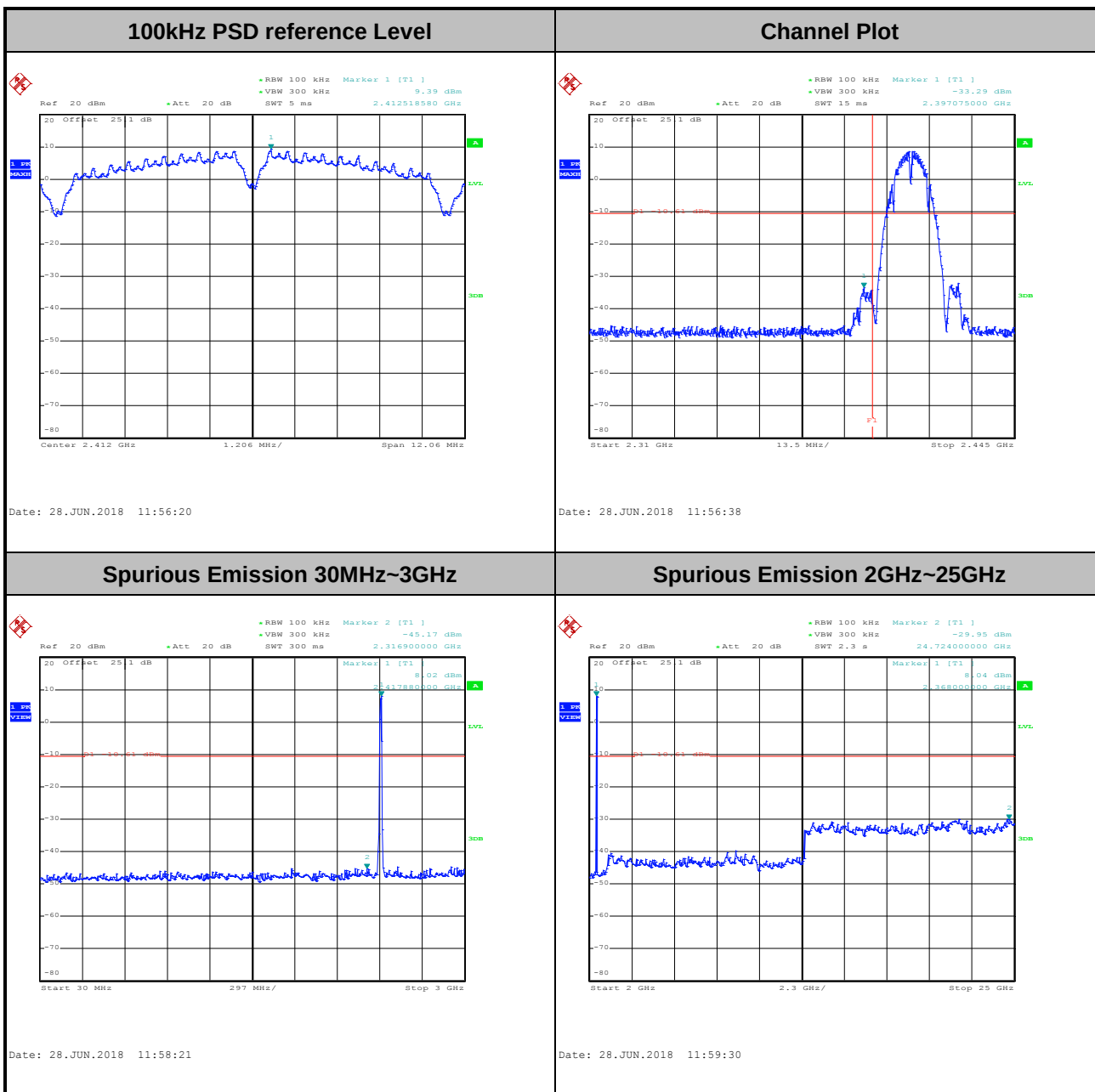
Test Mode :	802.11n HT20	Test Channel :	13
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Number of TX = 1, Ant. 2 (Measured)

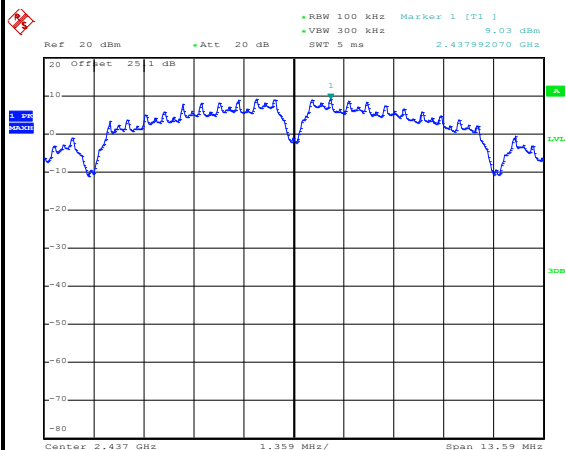
Test Mode :	802.11b	Test Channel :	01
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Test Mode :	802.11b	Test Channel :	06
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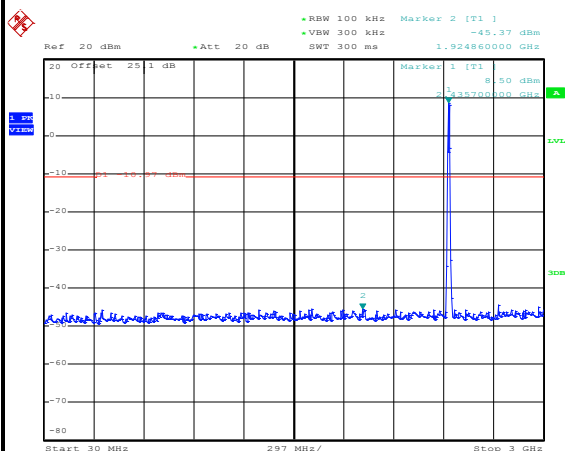
100kHz PSD reference Level



Date: 28.JUN.2018 13:38:28

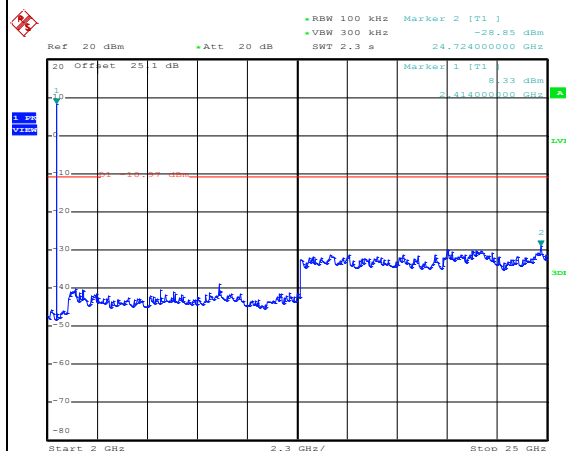
Channel Plot

Spurious Emission 30MHz~3GHz

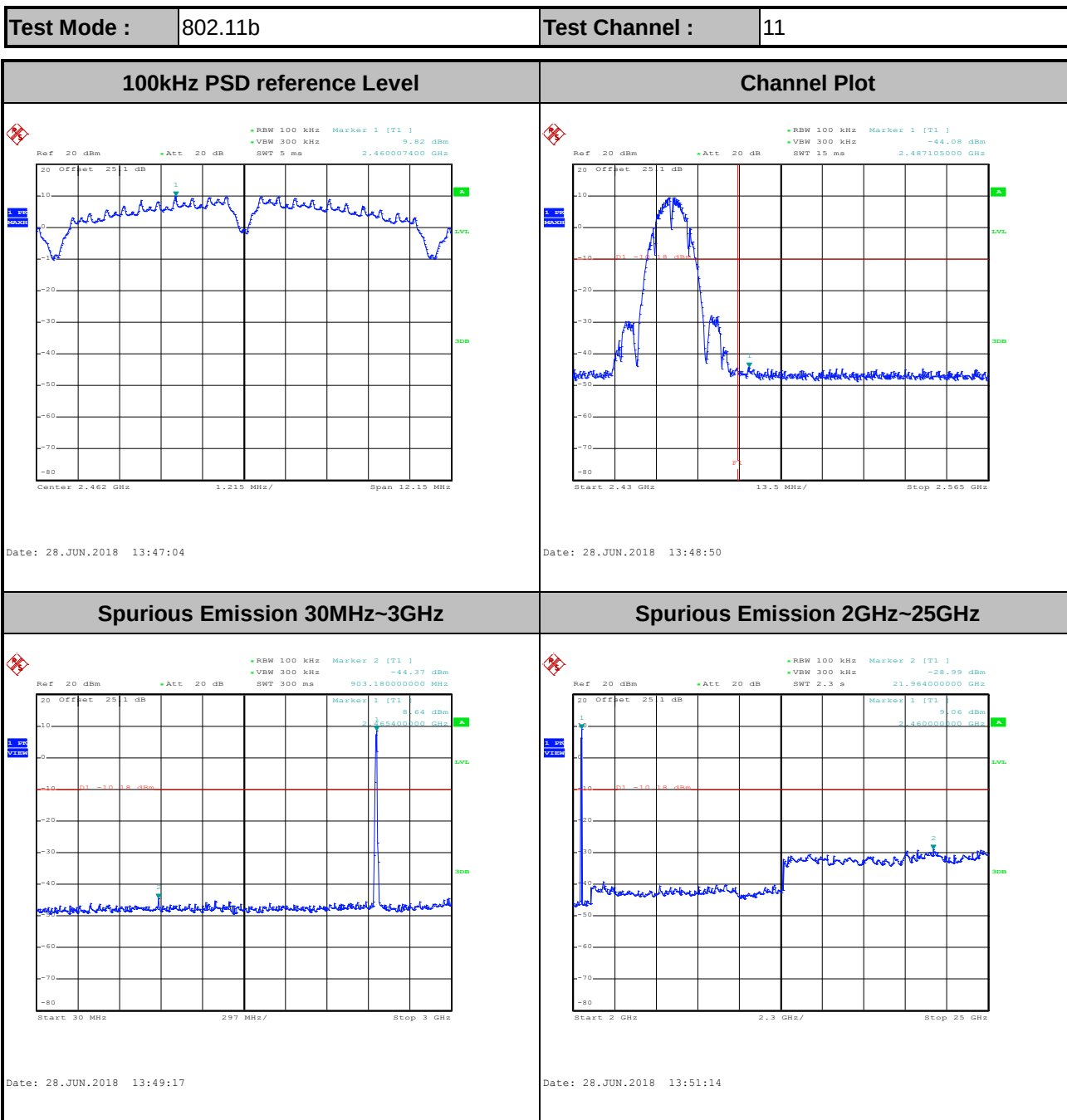


Date: 28.JUN.2018 13:39:10

Spurious Emission 2GHz~25GHz

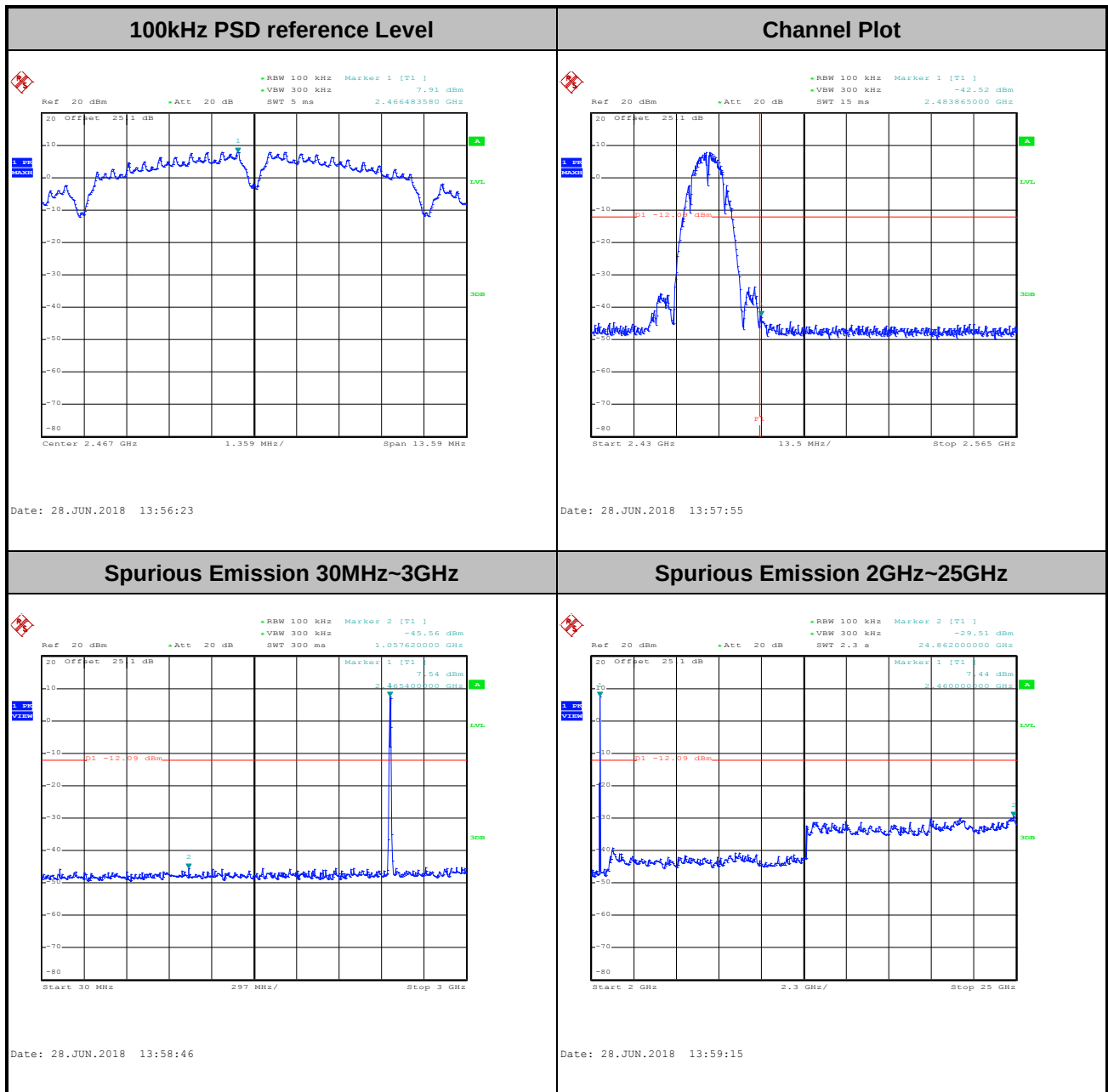


Date: 28.JUN.2018 13:39:41





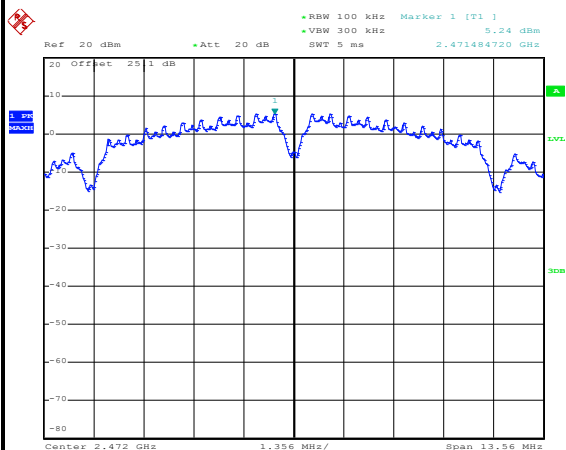
Test Mode :	802.11b	Test Channel :	12
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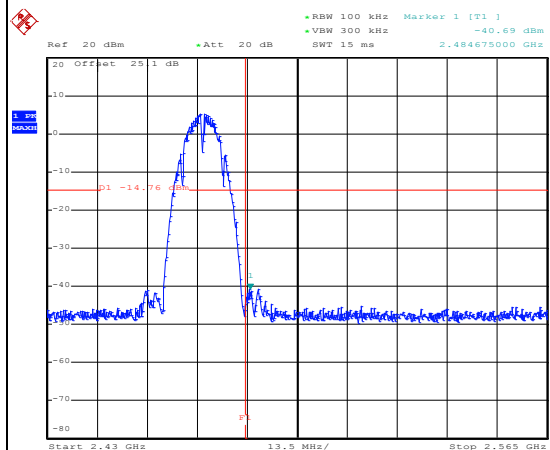
Test Mode :	802.11b	Test Channel :	13
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100kHz PSD reference Level



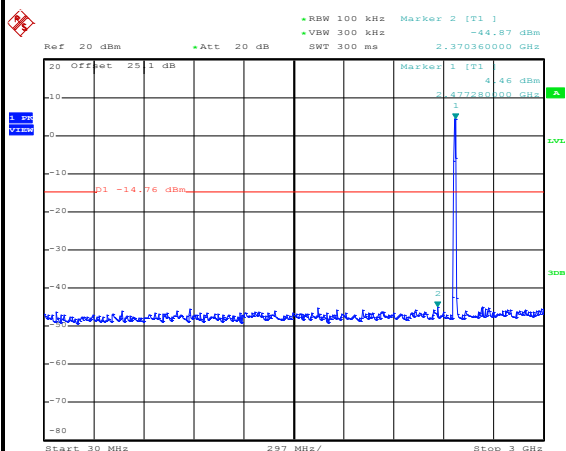
Date: 28.JUN.2018 14:04:11

Channel Plot



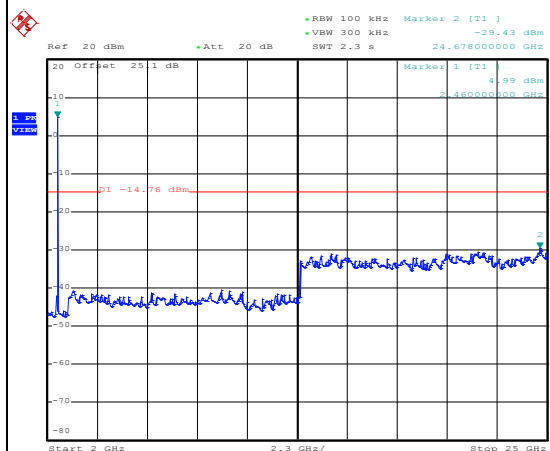
Date: 28.JUN.2018 14:04:48

Spurious Emission 30MHz~3GHz



Date: 28.JUN.2018 14:05:36

Spurious Emission 2GHz~25GHz

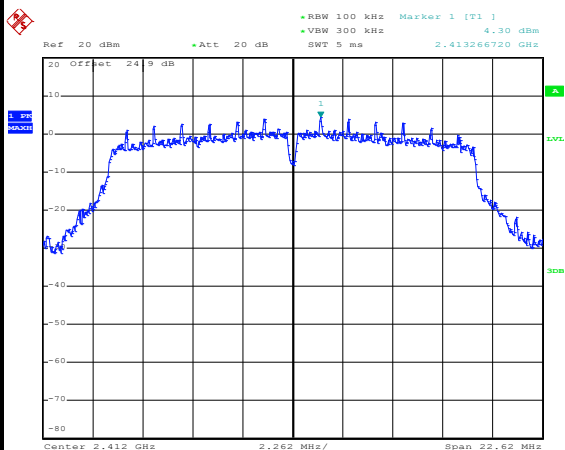


Date: 28.JUN.2018 14:06:14



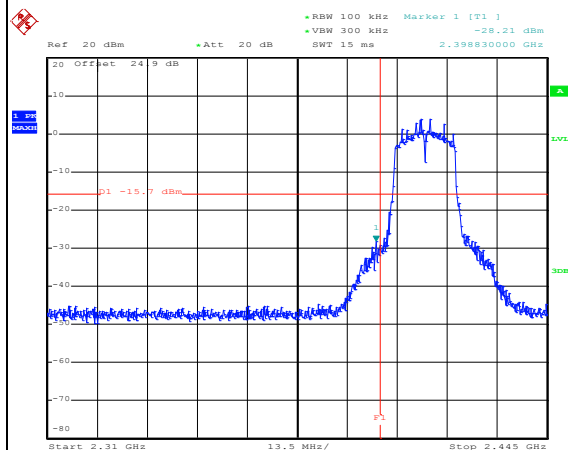
Test Mode :	802.11g	Test Channel :	01
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100kHz PSD reference Level



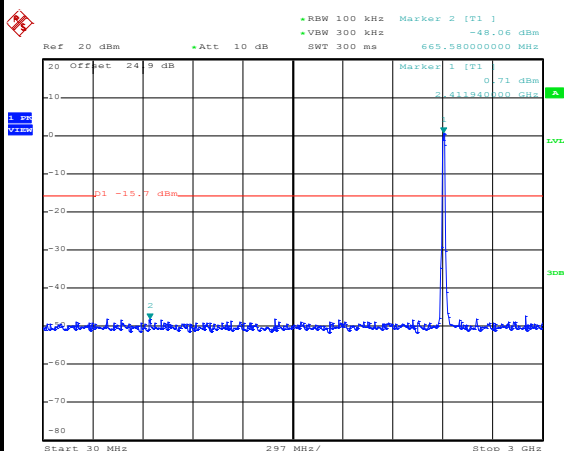
Date: 28.JUN.2018 01:41:53

Channel Plot



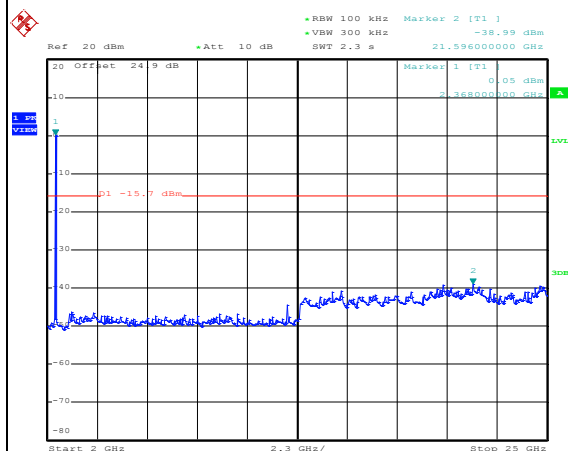
Date: 28.JUN.2018 01:42:50

Spurious Emission 30MHz~3GHz



Date: 28.JUN.2018 01:43:23

Spurious Emission 2GHz~25GHz

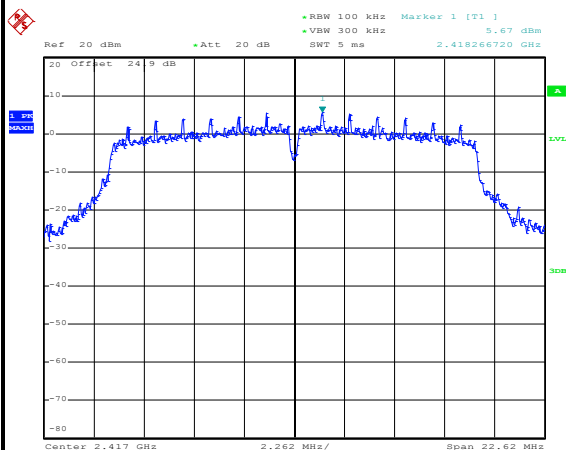


Date: 28.JUN.2018 01:43:40



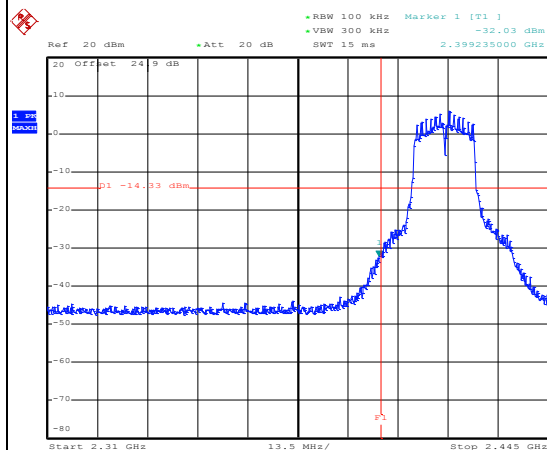
Test Mode :	802.11g	Test Channel :	02
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100kHz PSD reference Level



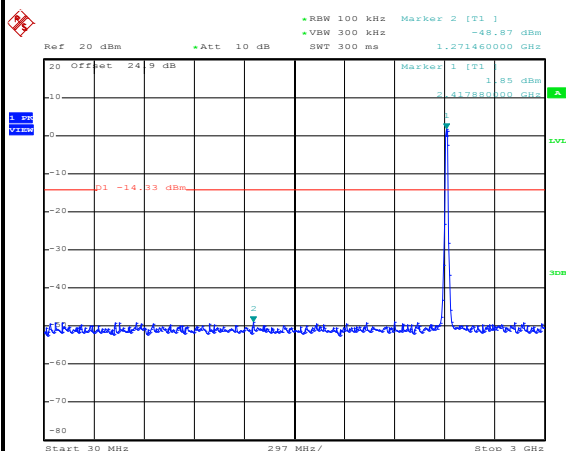
Date: 31.JUL.2018 07:13:07

Channel Plot



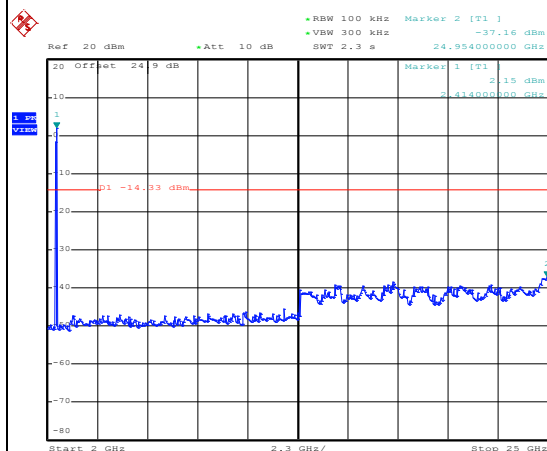
Date: 31.JUL.2018 07:16:04

Spurious Emission 30MHz~3GHz



Date: 31.JUL.2018 07:16:39

Spurious Emission 2GHz~25GHz

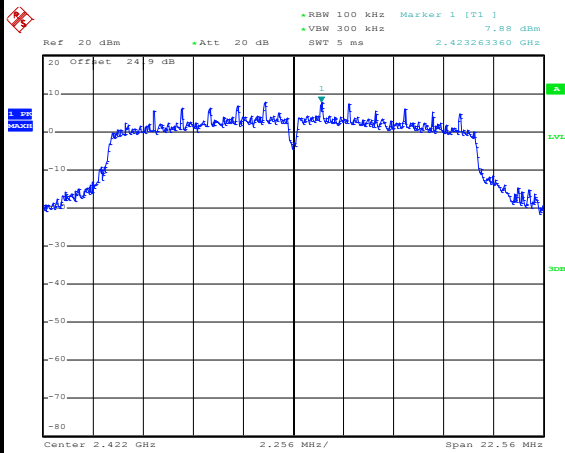


Date: 31.JUL.2018 07:16:54



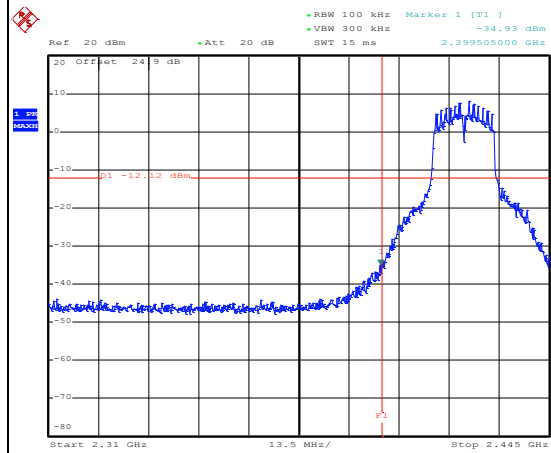
Test Mode :	802.11g	Test Channel :	03
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100kHz PSD reference Level



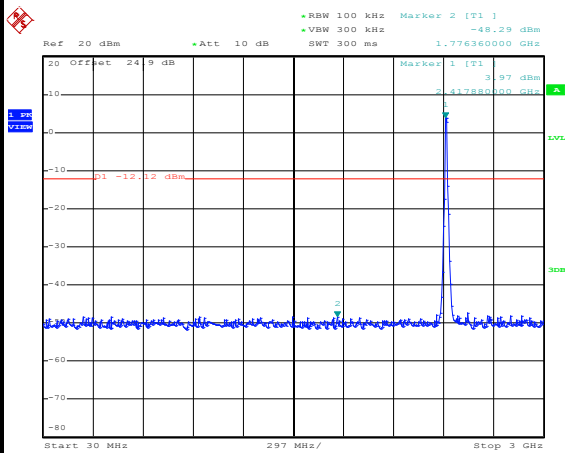
Date: 1.AUG.2018 02:06:32

Channel Plot



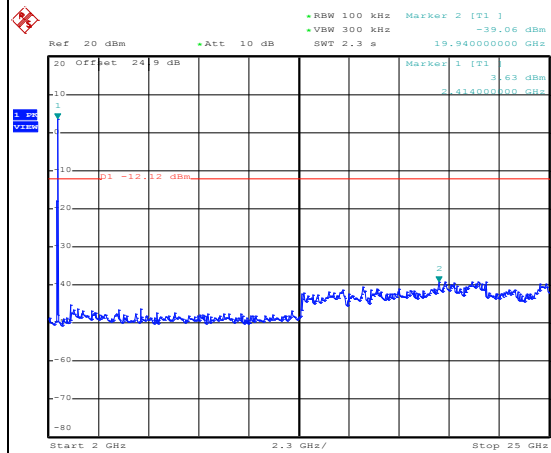
Date: 1.AUG.2018 02:07:49

Spurious Emission 30MHz~3GHz



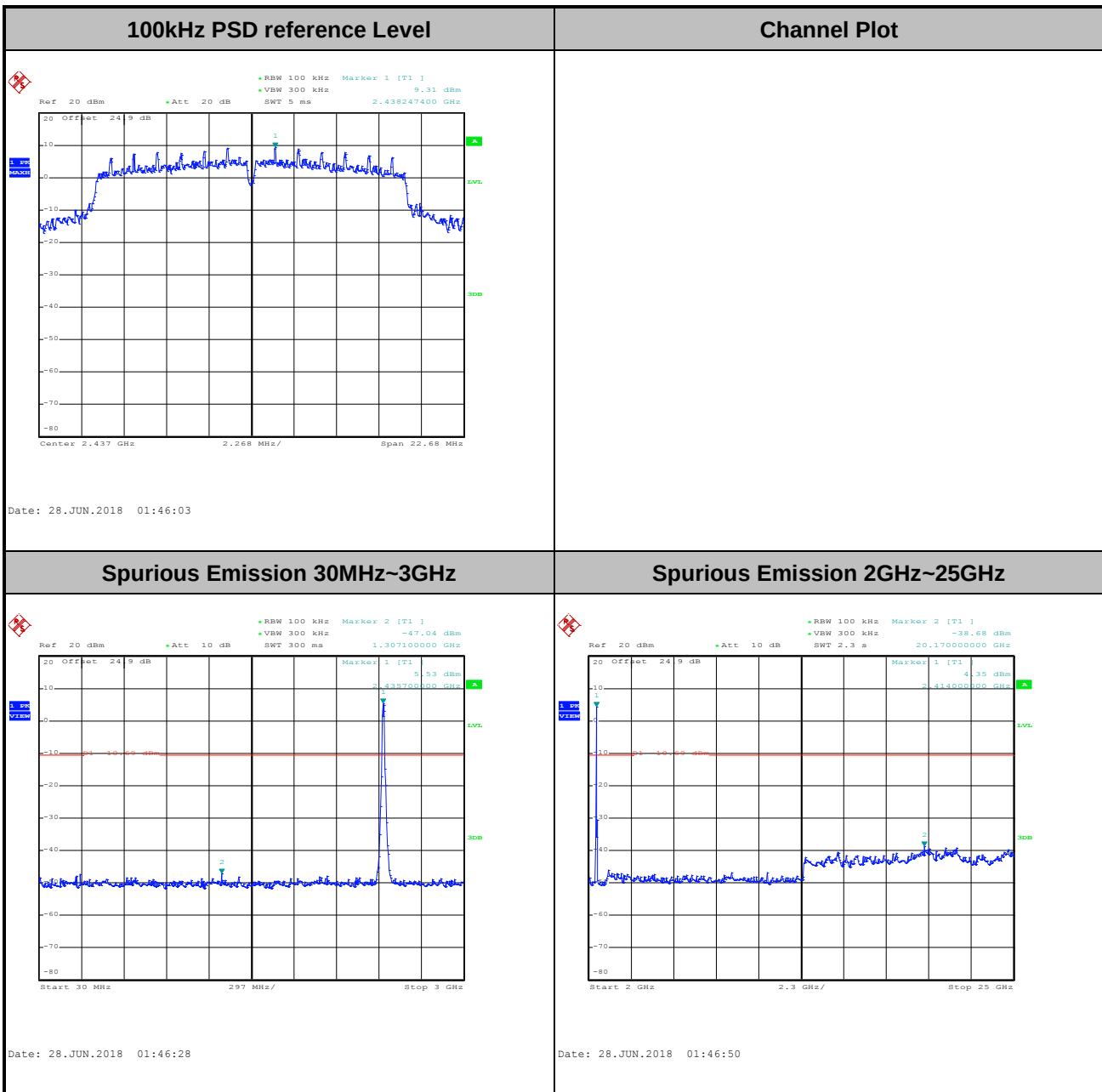
Date: 1.AUG.2018 02:08:49

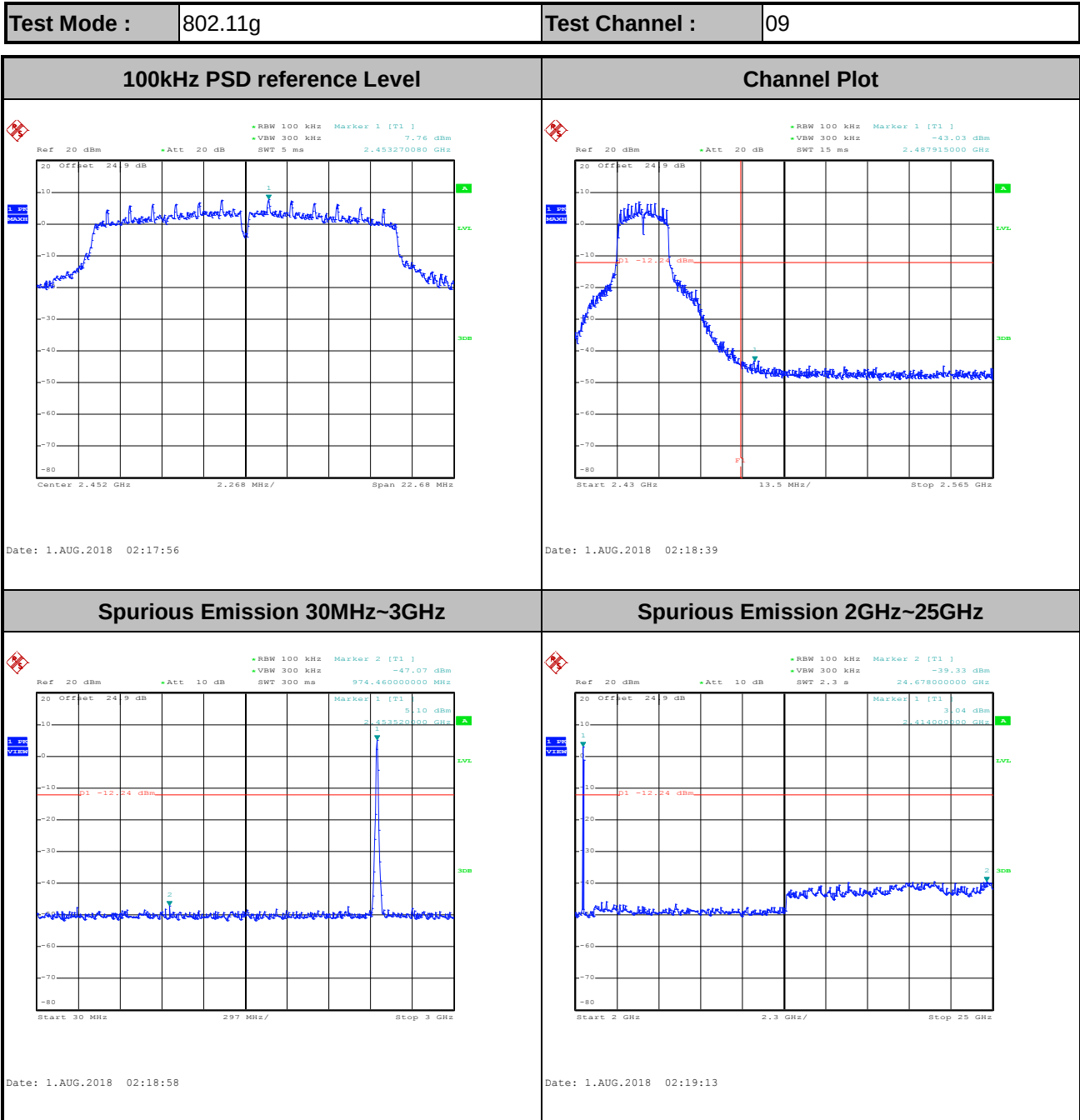
Spurious Emission 2GHz~25GHz



Date: 1.AUG.2018 02:09:04

Test Mode :	802.11g	Test Channel :	06
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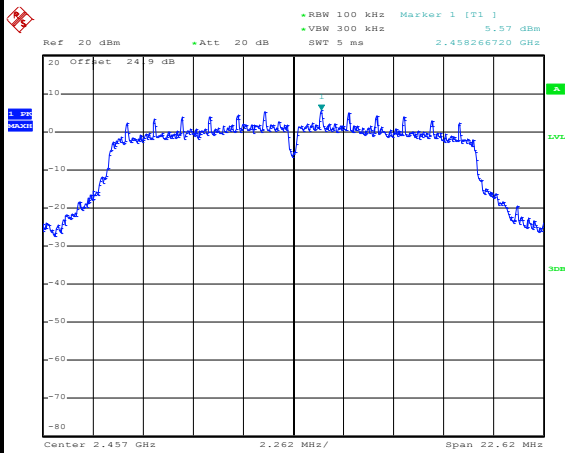






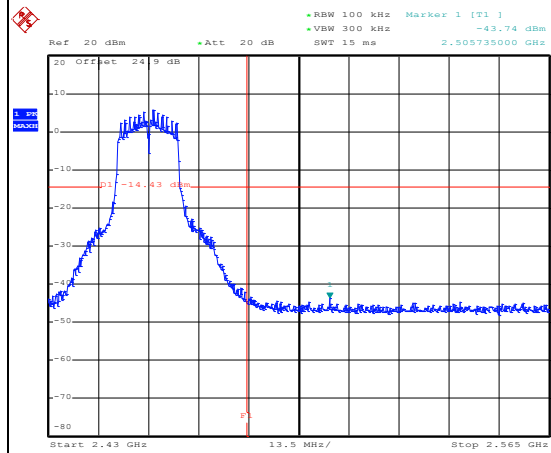
Test Mode :	802.11g	Test Channel :	10
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100kHz PSD reference Level



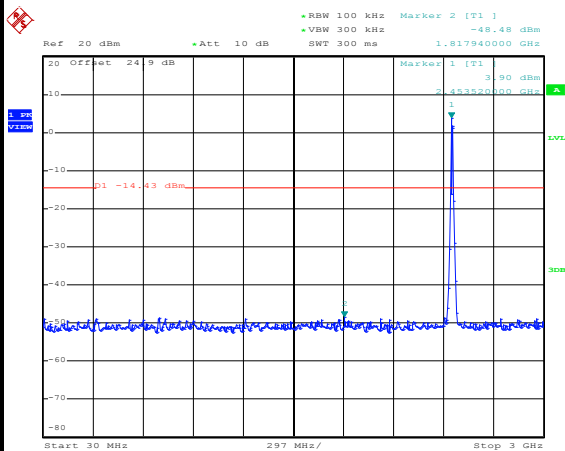
Date: 31.JUL.2018 07:21:18

Channel Plot



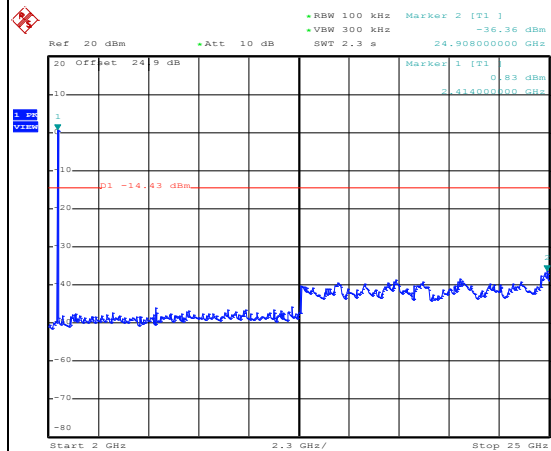
Date: 31.JUL.2018 07:24:12

Spurious Emission 30MHz~3GHz



Date: 31.JUL.2018 07:24:38

Spurious Emission 2GHz~25GHz

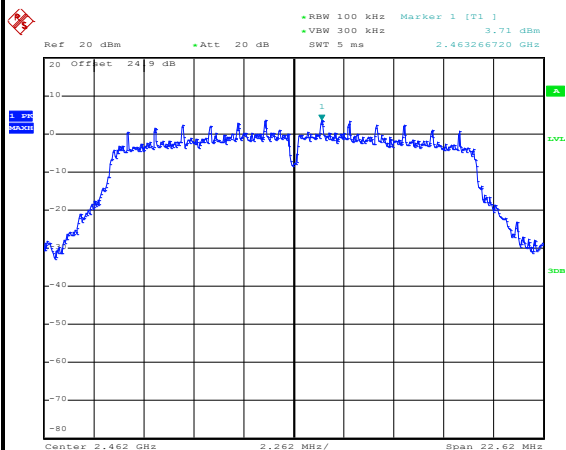


Date: 31.JUL.2018 07:24:54



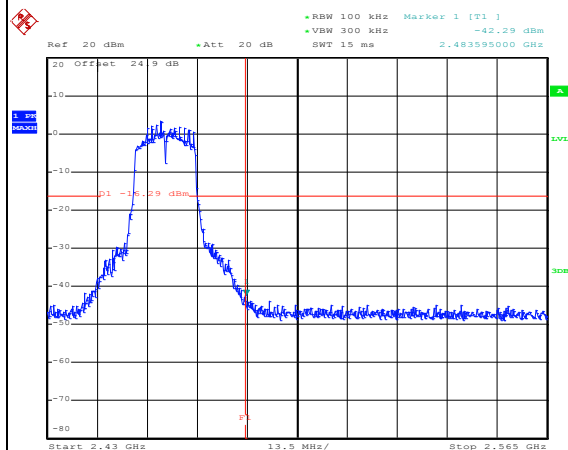
Test Mode :	802.11g	Test Channel :	11
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100kHz PSD reference Level



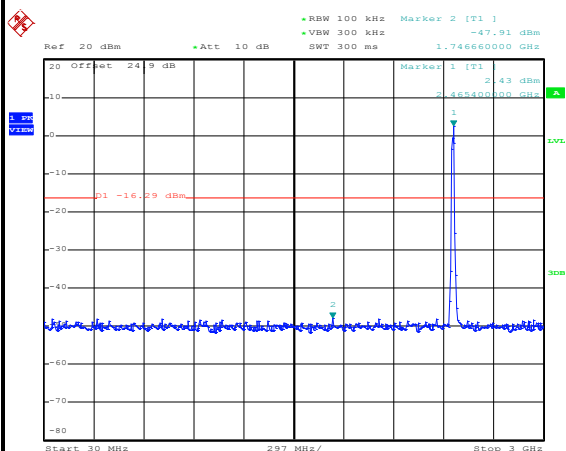
Date: 28.JUN.2018 01:50:56

Channel Plot



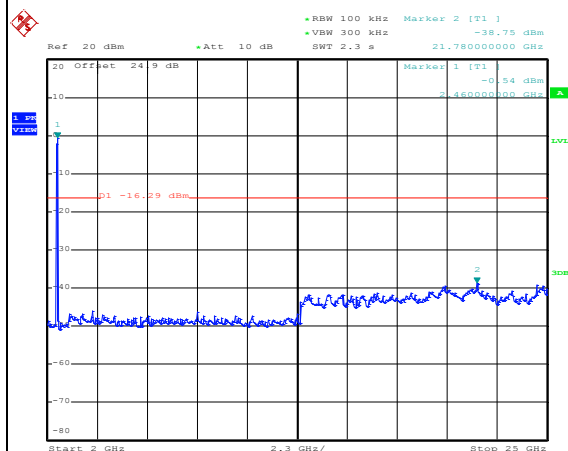
Date: 28.JUN.2018 01:51:16

Spurious Emission 30MHz~3GHz



Date: 28.JUN.2018 01:51:34

Spurious Emission 2GHz~25GHz

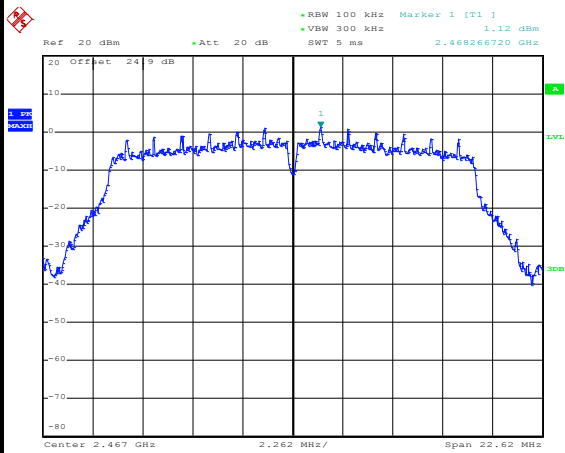


Date: 28.JUN.2018 01:51:51



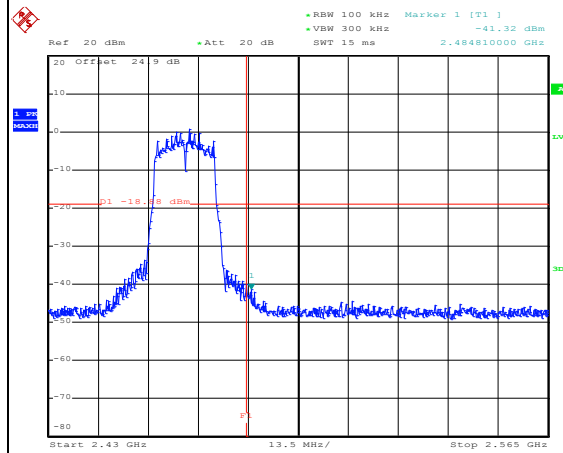
Test Mode :	802.11g	Test Channel :	12
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100kHz PSD reference Level



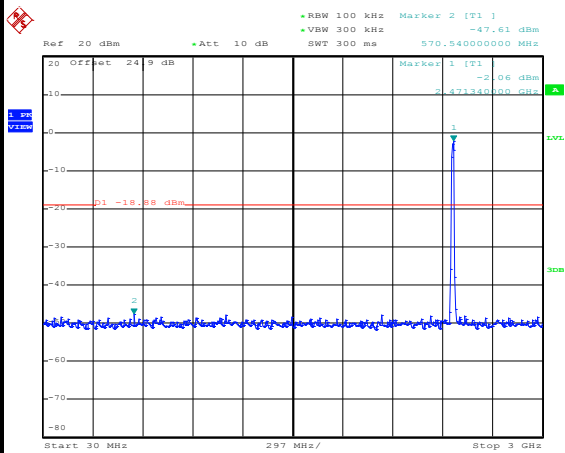
Date: 28.JUN.2018 01:55:14

Channel Plot



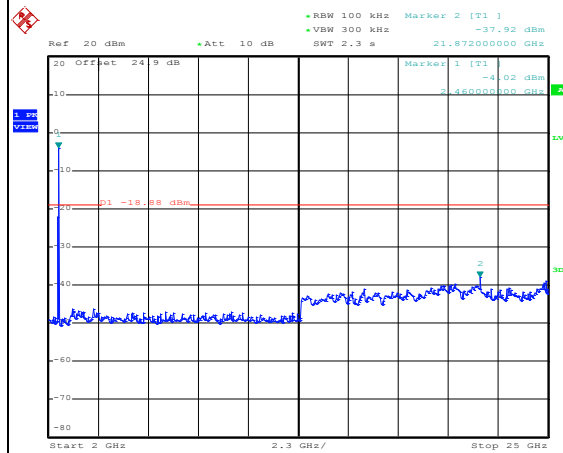
Date: 28.JUN.2018 02:05:55

Spurious Emission 30MHz~3GHz



Date: 28.JUN.2018 01:55:36

Spurious Emission 2GHz~25GHz

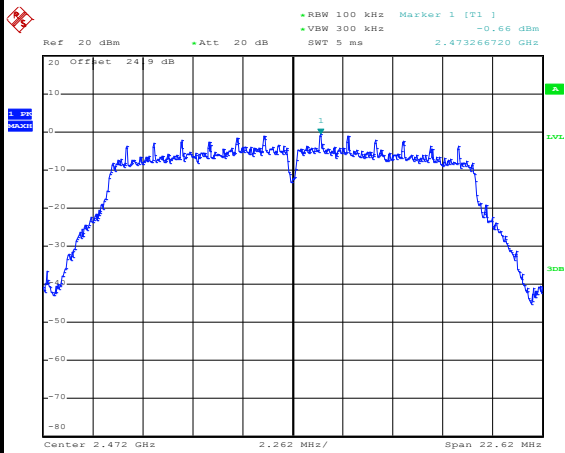


Date: 28.JUN.2018 01:55:51

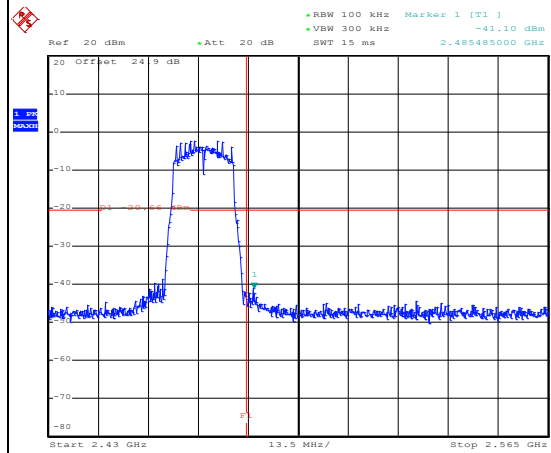


Test Mode :	802.11g	Test Channel :	13
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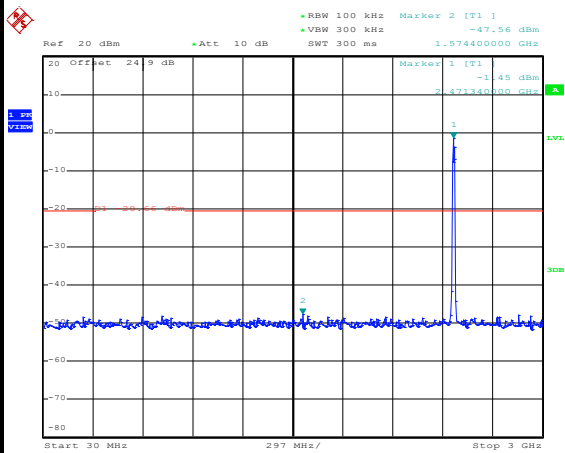
100kHz PSD reference Level



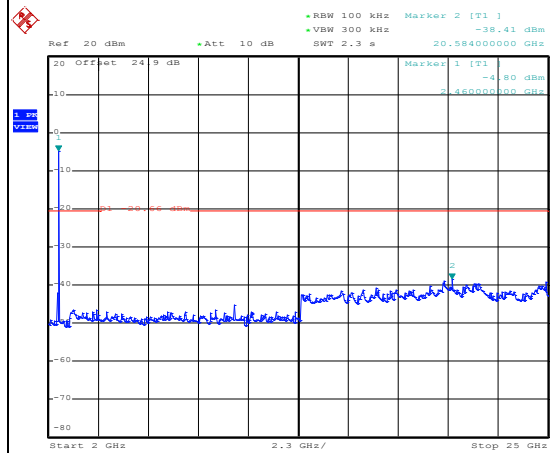
Channel Plot

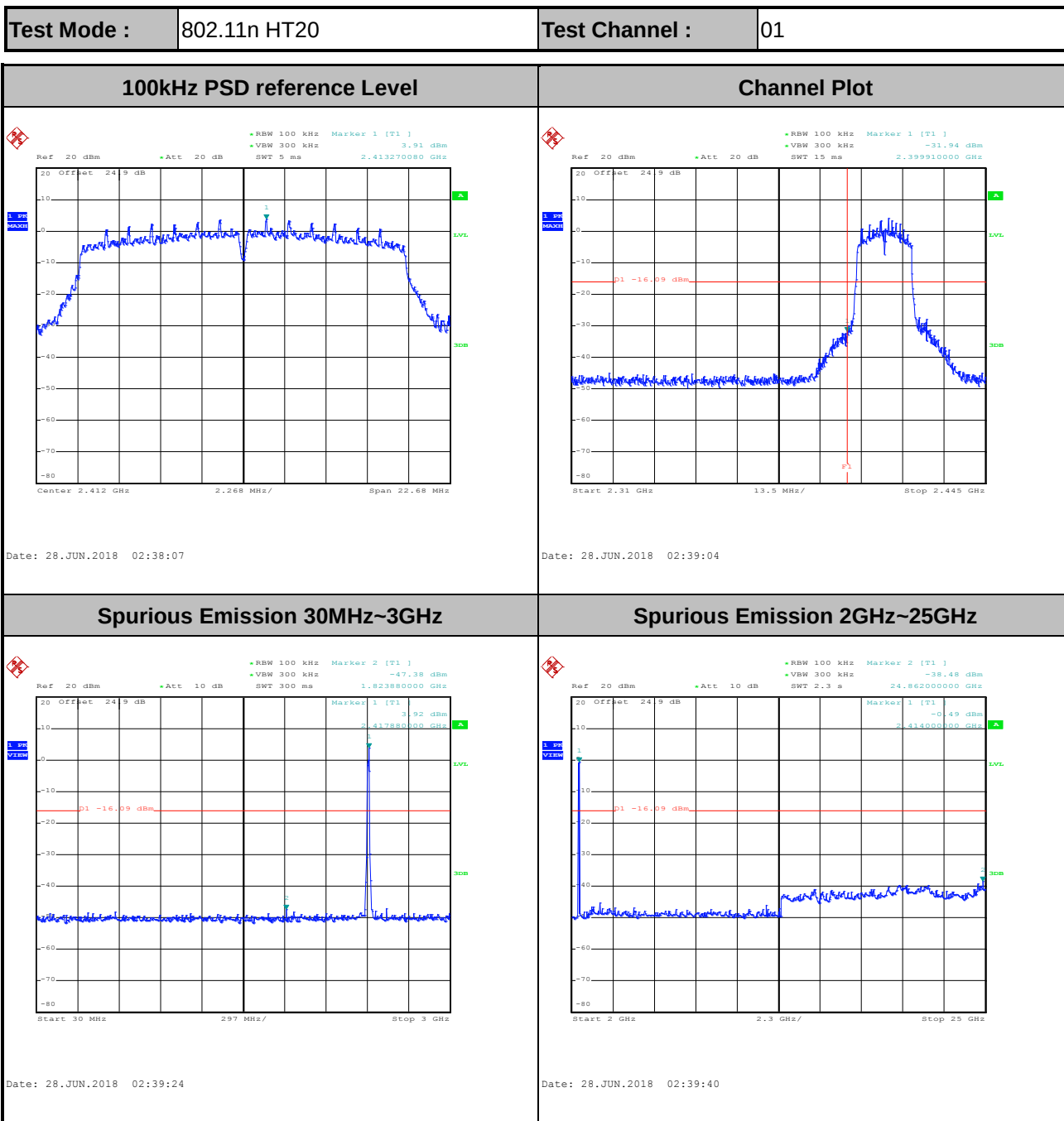


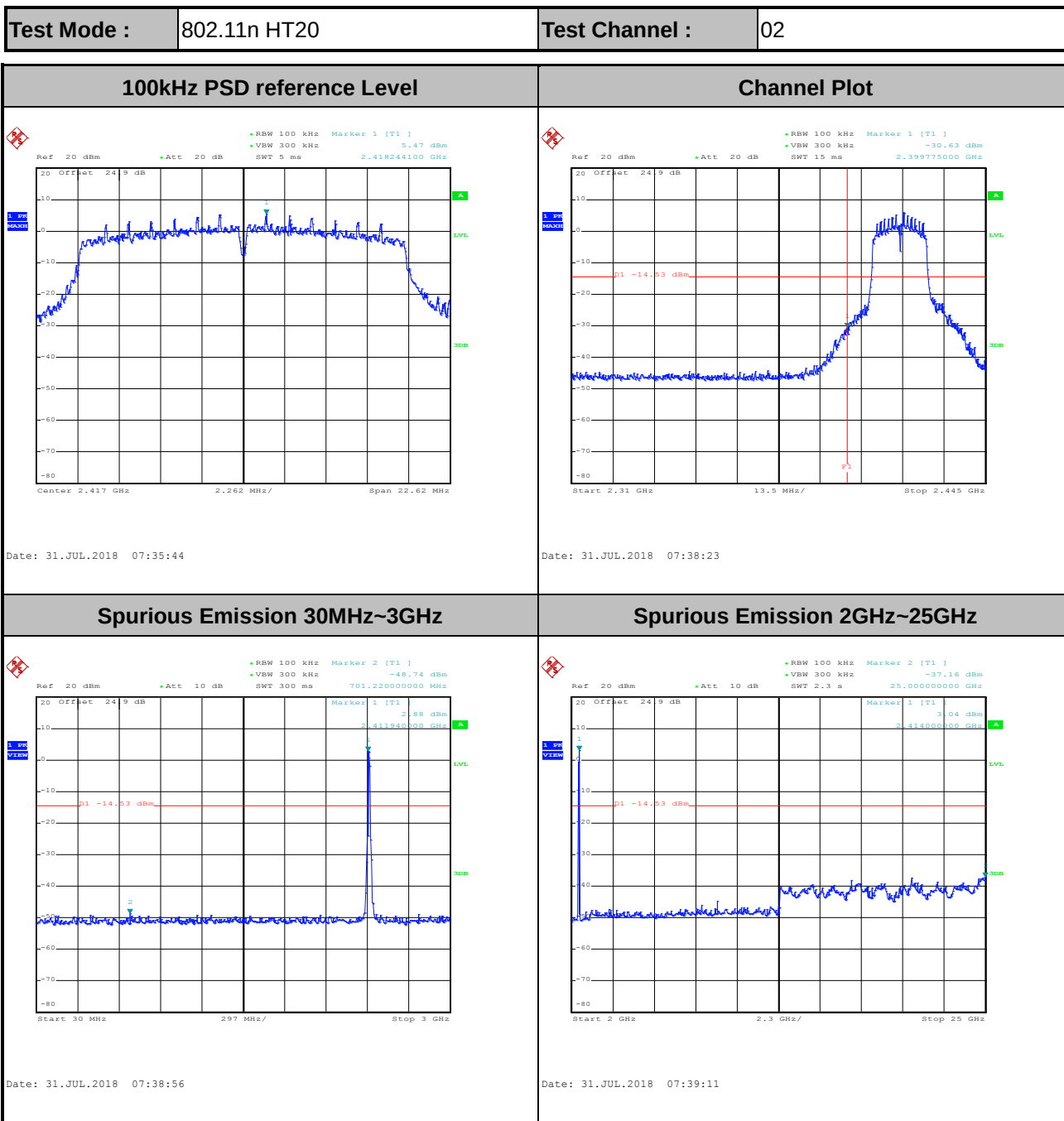
Spurious Emission 30MHz~3GHz



Spurious Emission 2GHz~25GHz





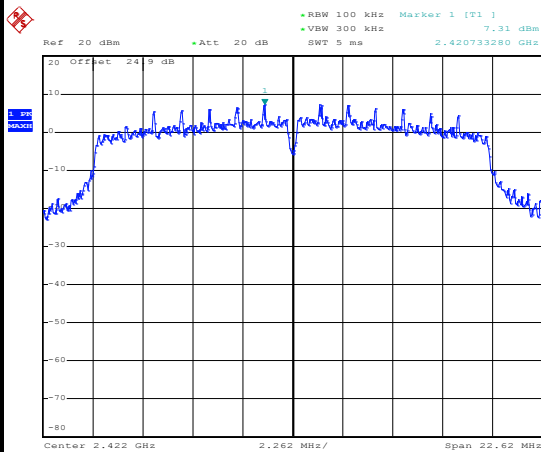




Test Mode : 802.11n HT20

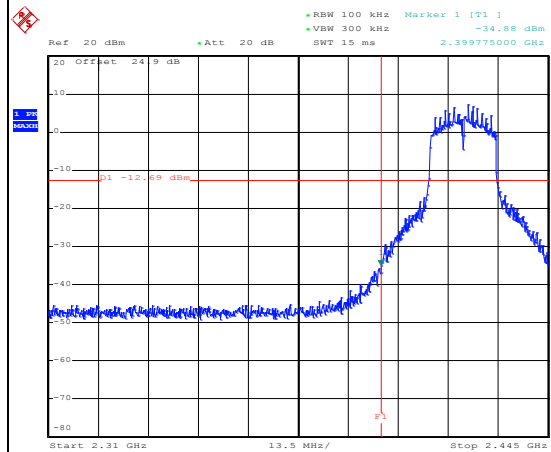
Test Channel : 03

100kHz PSD reference Level



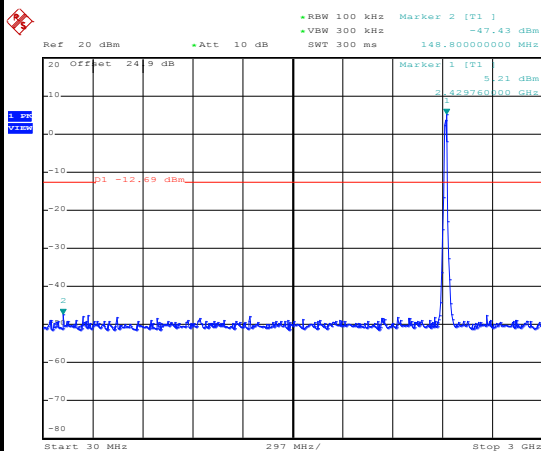
Date: 1.AUG.2018 02:27:43

Channel Plot



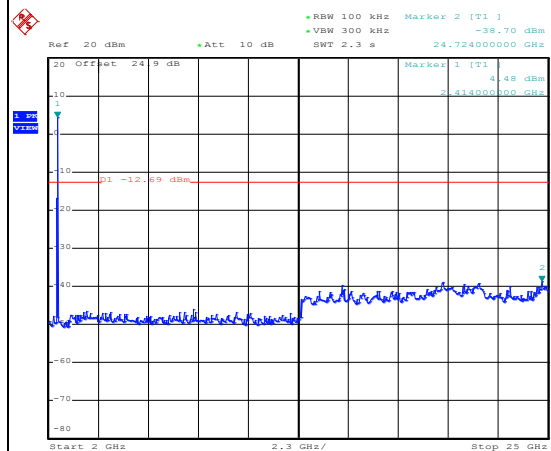
Date: 1.AUG.2018 02:28:03

Spurious Emission 30MHz~3GHz



Date: 1.AUG.2018 02:28:31

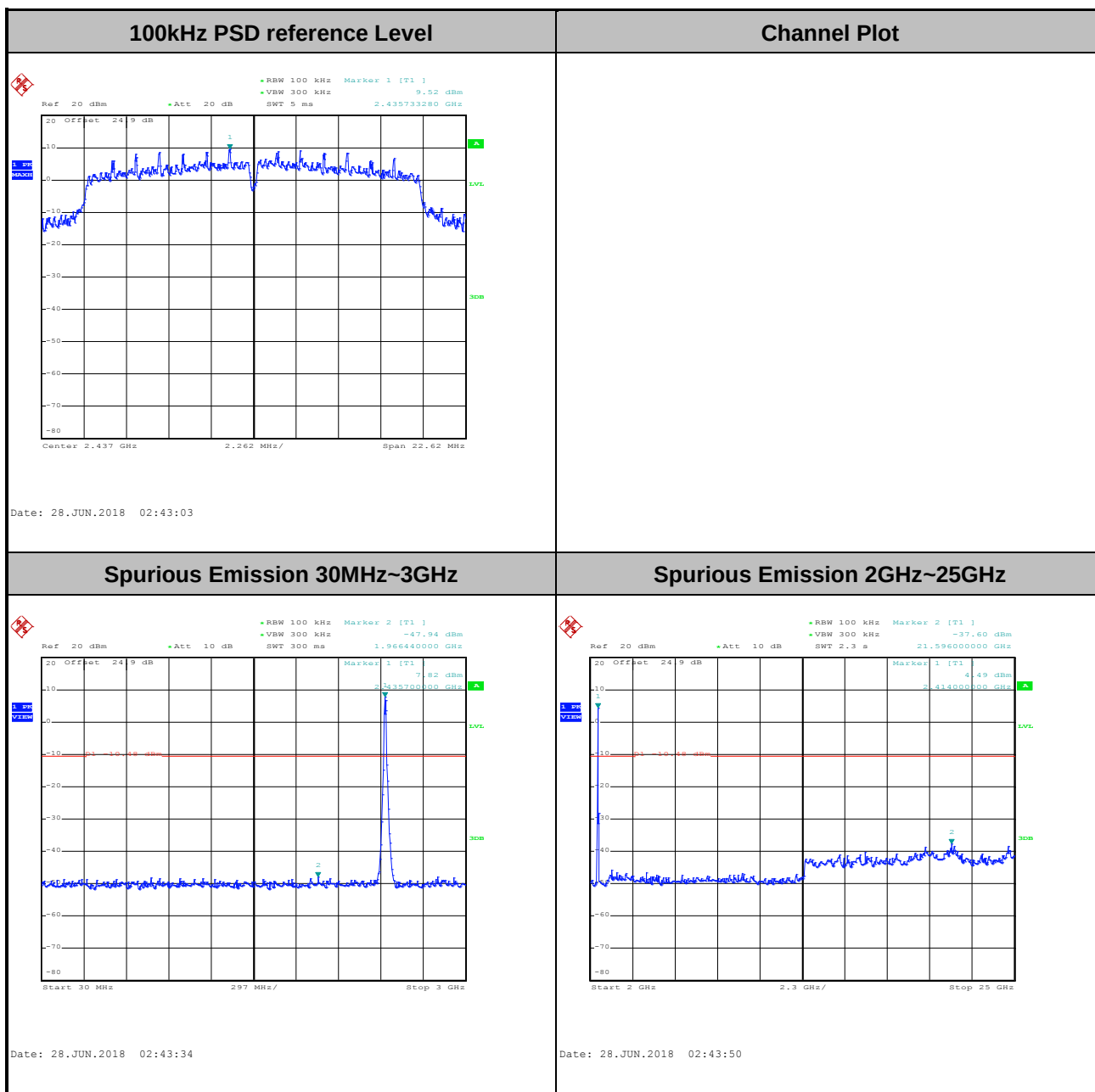
Spurious Emission 2GHz~25GHz



Date: 1.AUG.2018 02:28:47



Test Mode :	802.11n HT20	Test Channel :	06
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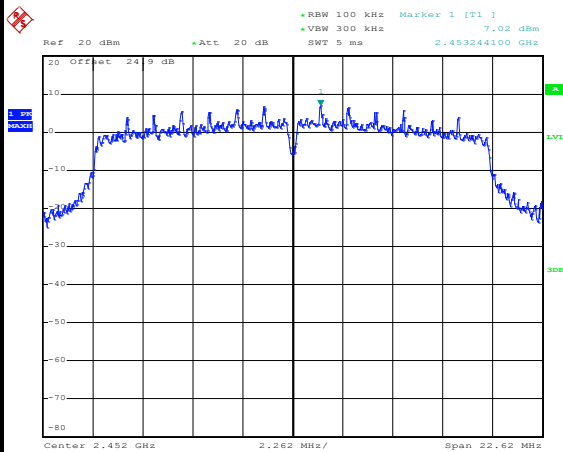




Test Mode : 802.11n HT20

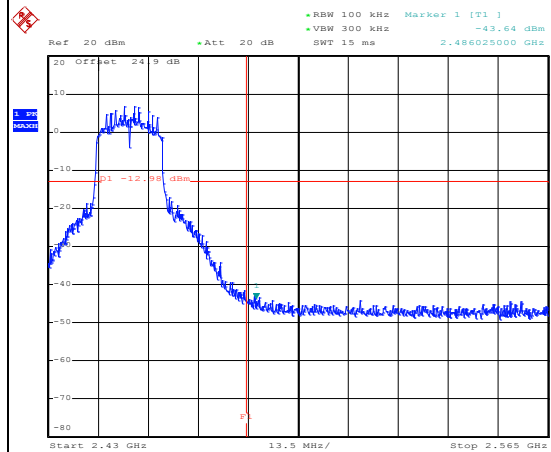
Test Channel : 09

100kHz PSD reference Level



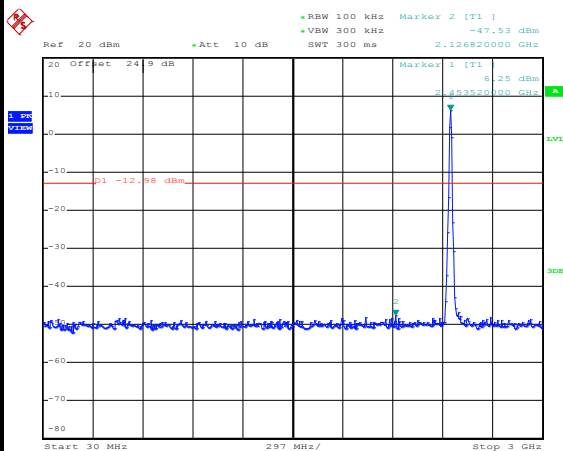
Date: 1.AUG.2018 02:35:07

Channel Plot



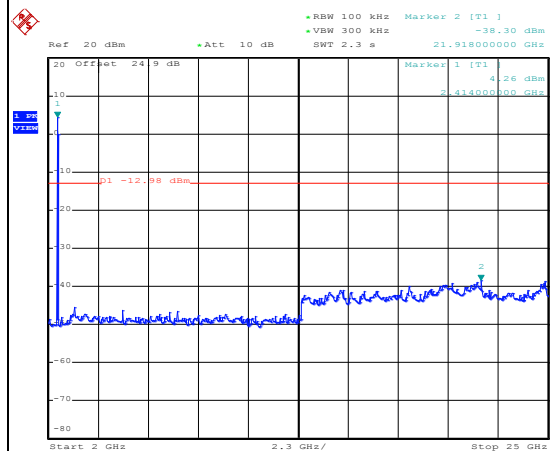
Date: 1.AUG.2018 02:35:32

Spurious Emission 30MHz~3GHz

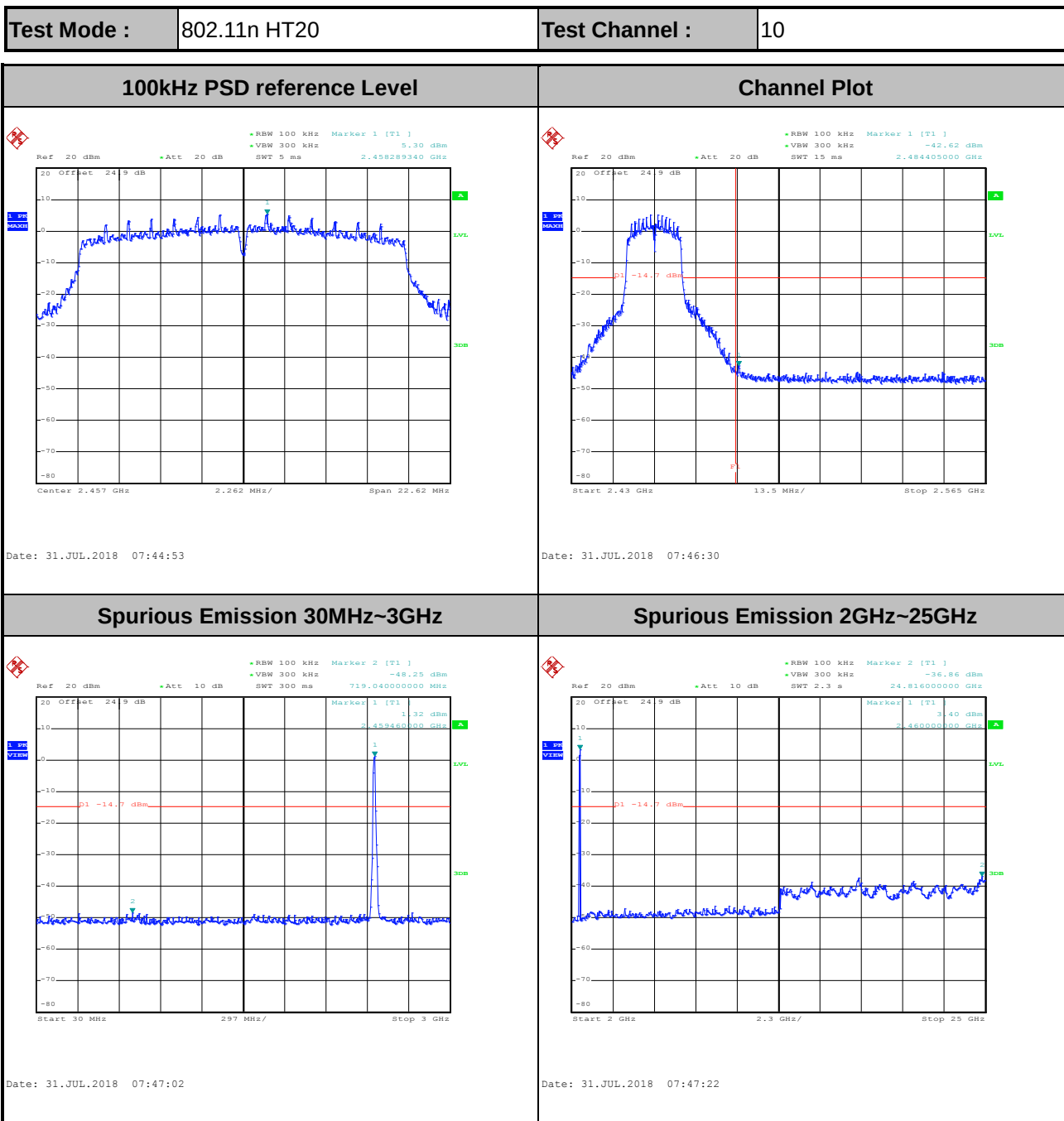


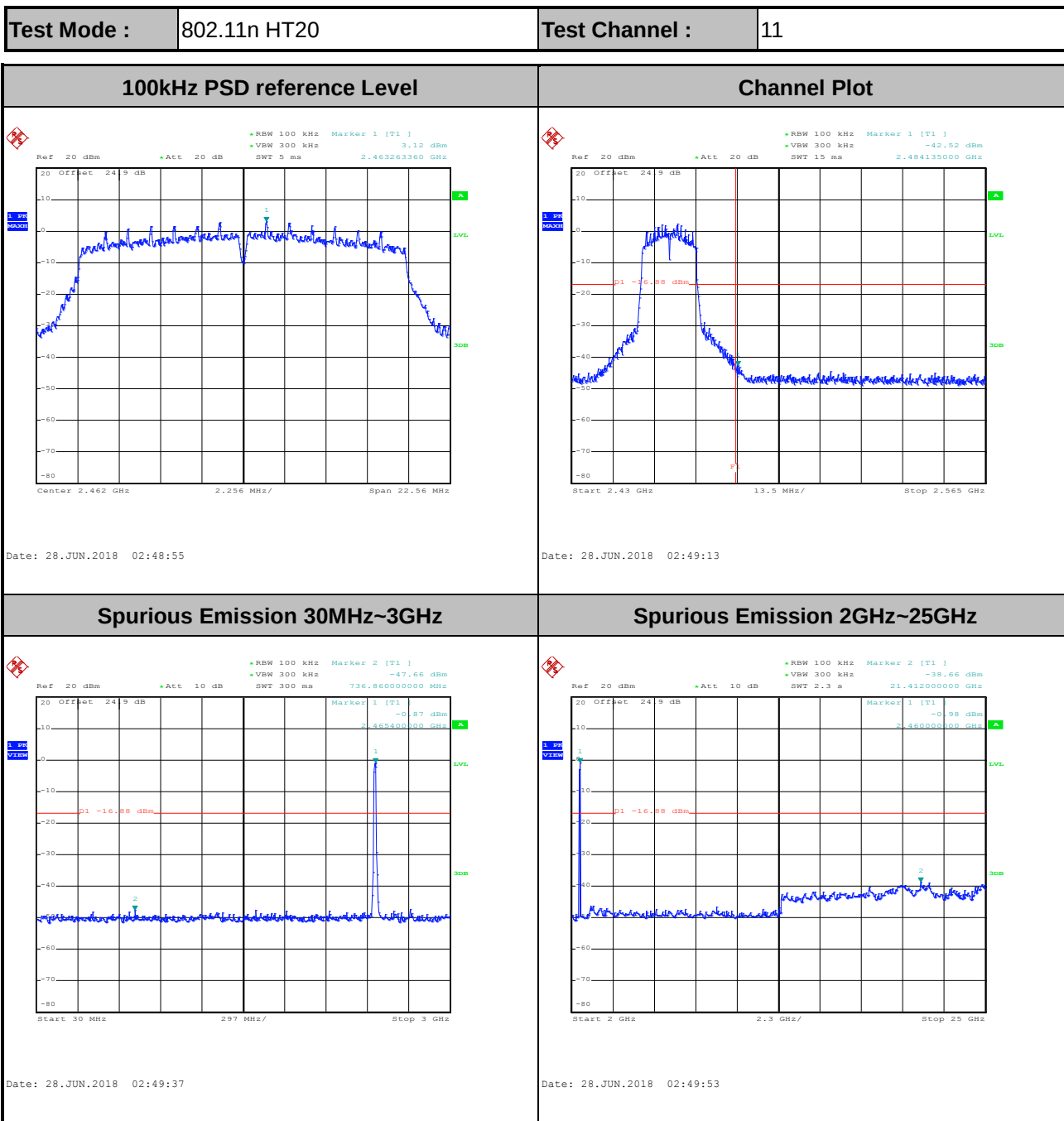
Date: 1.AUG.2018 02:36:52

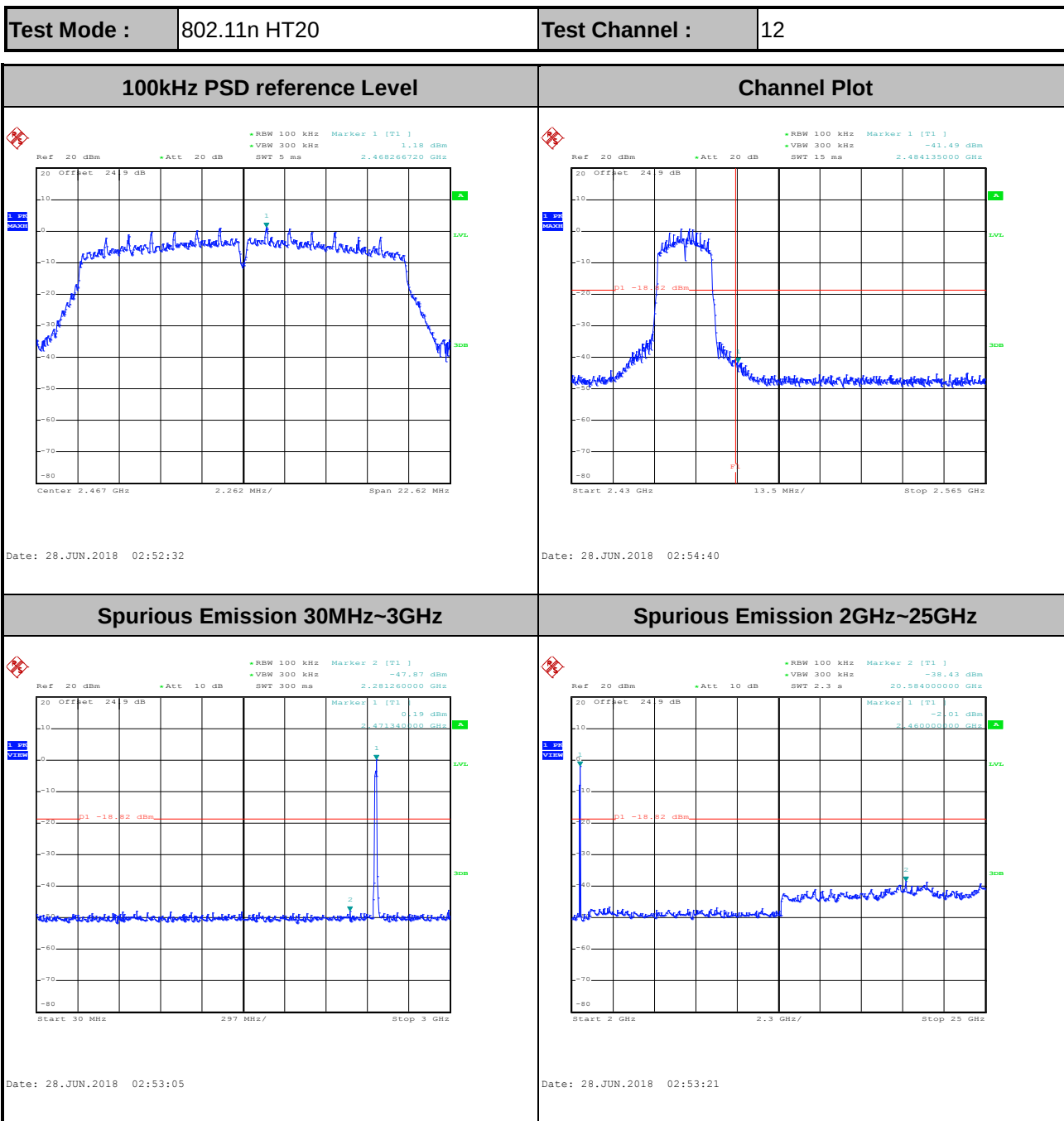
Spurious Emission 2GHz~25GHz

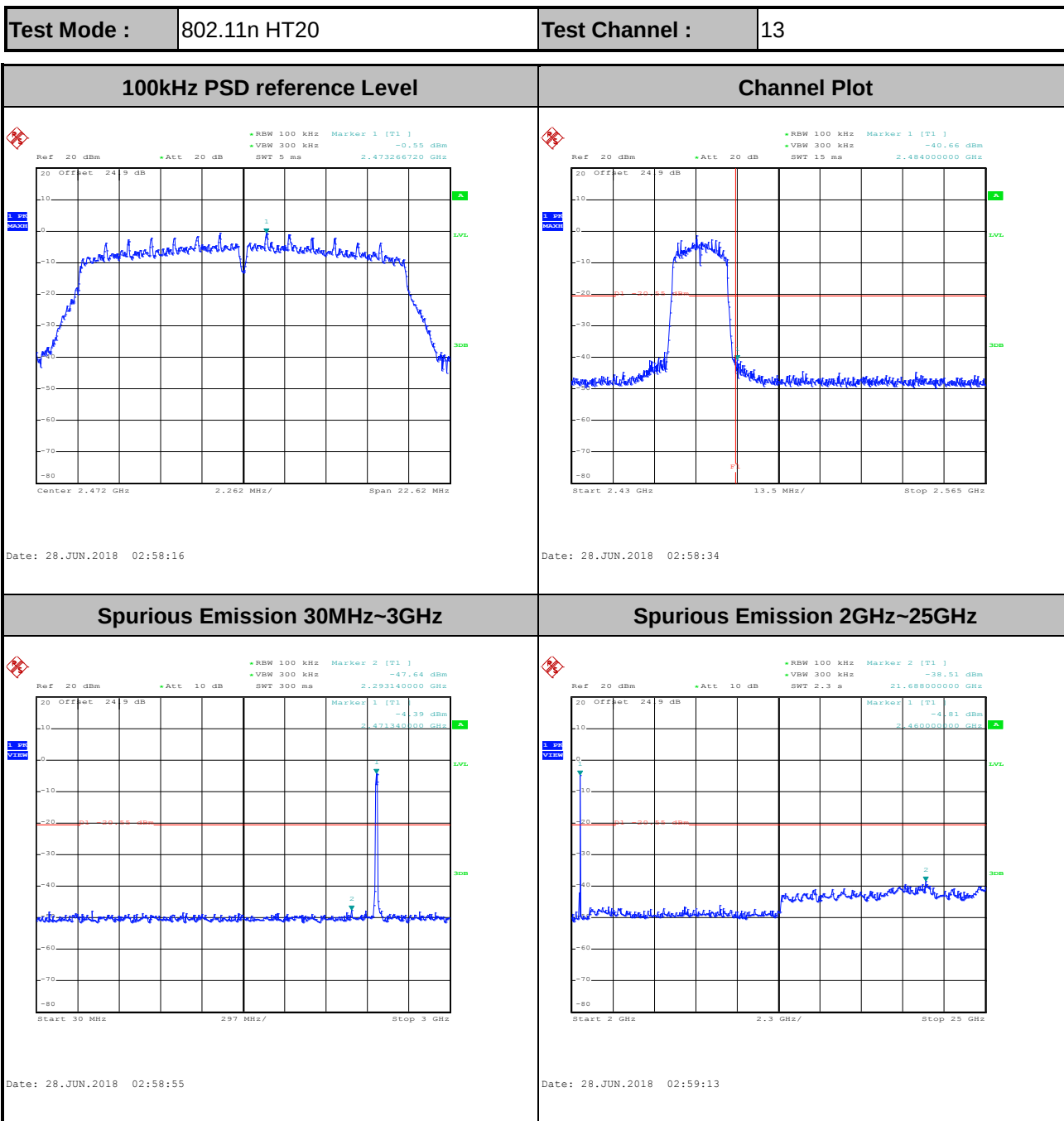


Date: 1.AUG.2018 02:37:07











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

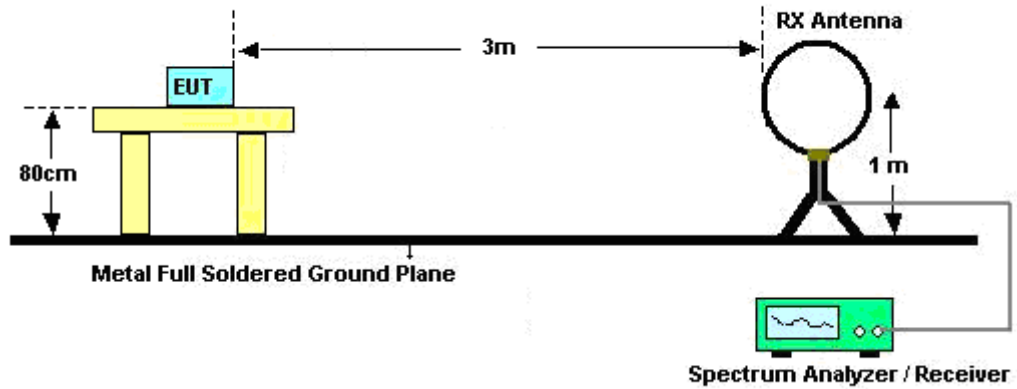
1. The testing follows FCC KDB Publication No. 558074 D01 DTS Meas. Guidance v04.
2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test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

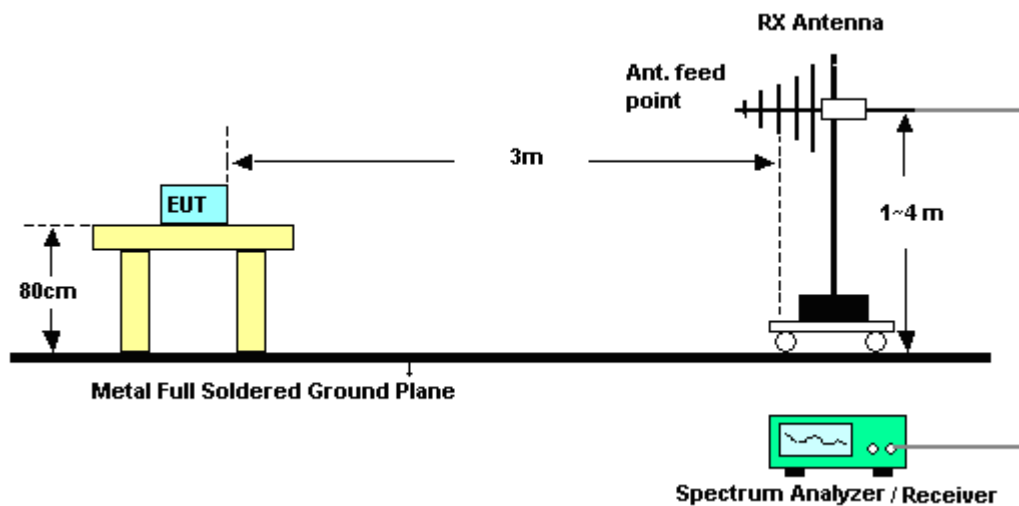
 - VBW = 10 Hz, when duty cycle is no less than 98 percent.
 - VBW $\geq 1/T$, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.

3.5.4 Test Setup

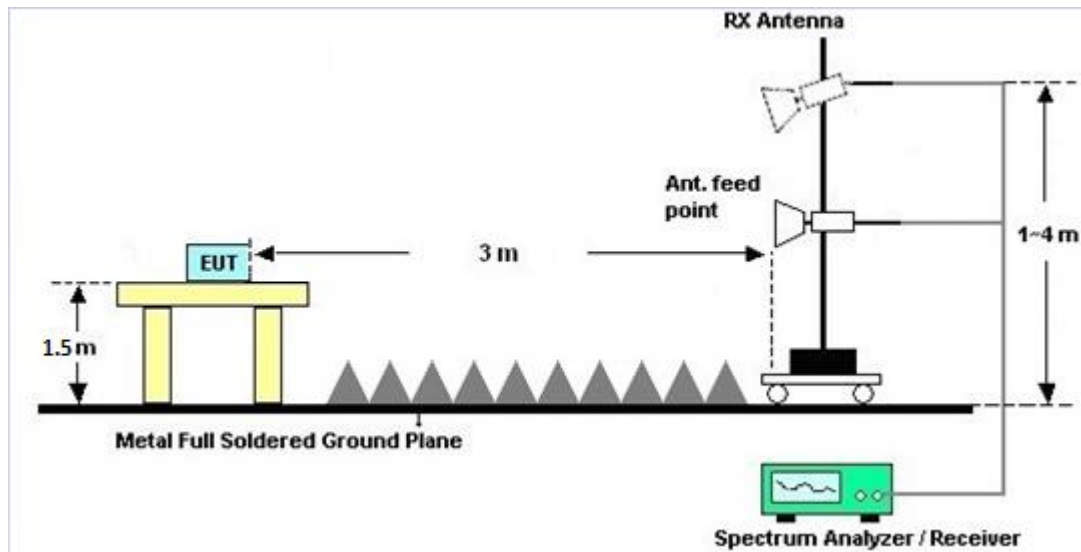
For radiated emissions below 30MHz



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.

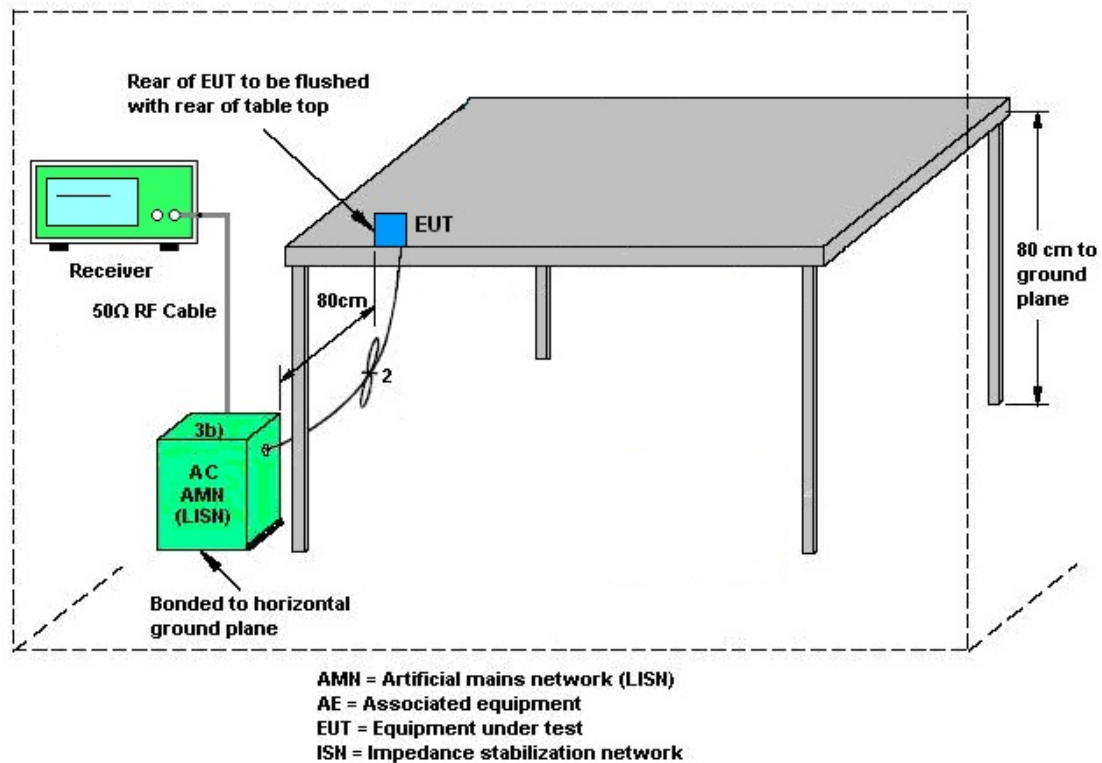
3.6.2 Measuring Instruments

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

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



4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Power Meter	Anritsu	ML2495A	0932001	N/A	Sep. 26, 2017	Jun. 07, 2018~ Aug. 01, 2018	Sep. 25, 2018	Conducted (TH05-HY)
Power Sensor	Anritsu	MA2411B	0846202	300MHz~40GHz	Sep. 26, 2017	Jun. 07, 2018~ Aug. 01, 2018	Sep. 25, 2018	Conducted (TH05-HY)
Spectrum Analyzer	Rohde & Schwarz	FSP30	101067	9kHz ~ 30GHz	Nov. 13, 2017	Jun. 07, 2018~ Aug. 01, 2018	Nov. 12, 2018	Conducted (TH05-HY)
Programmable Power Supply	GW Instek	PSS-2005	EL890001	1V~20V 0.5A~4A	Oct. 06, 2017	Jun. 07, 2018~ Aug. 01, 2018	Oct. 05, 2018	Conducted (TH05-HY)
Switch Box & RF Cable	Burgeon	ETF-058	EC1300484	N/A	Mar. 01, 2018	Jun. 07, 2018~ Aug. 01, 2018	Feb. 28, 2019	Conducted (TH05-HY)
AC Power Source	ChainTek	APC-1000W	N/A	N/A	N/A	Jun. 25, 2018	N/A	Conduction (CO05-HY)
EMI Test Receiver	Rohde & Schwarz	ESR3	102388	3.6GHz	Dec. 08, 2017	Jun. 25, 2018	Dec. 07, 2018	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100080	9kHz~30MHz	Nov. 30, 2017	Jun. 25, 2018	Nov. 29, 2018	Conduction (CO05-HY)
Software	Rohde & Schwarz	EMC32 V10.30	N/A	N/A	N/A	Jun. 25, 2018	N/A	Conduction (CO05-HY)
LF Cable	HUBER + SUHNER	RG-214/U	LF01	N/A	Jan. 03, 2018	Jun. 25, 2018	Jan. 02, 2019	Conduction (CO05-HY)
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100851	N/A	Jan. 03, 2018	Jun. 25, 2018	Jan. 02, 2019	Conduction (CO05-HY)
Bilog Antenna	TESEQ	CBL 6111D&00800 N1D01N-06	35419&03	30MHz to 1GHz	Dec. 18, 2017	Jun. 13, 2018~ Jul. 31, 2018	Dec. 17, 2018	Radiation (03CH07-HY)
Double Ridge Horn Antenna	ESCO	3117	00075962	1GHz ~ 18GHz	Aug. 23, 2017	Jun. 13, 2018~ Jul. 31, 2018	Aug. 22, 2018	Radiation (03CH07-HY)
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100315	9 kHz~30 MHz	Nov. 10, 2017	Jun. 13, 2018~ Jul. 31, 2018	Nov. 09, 2018	Radiation (03CH07-HY)
Preamplifier	MITEQ	AMF-7D-0010 1800-30-10P	1590075	1GHz ~ 18GHz	Apr. 25, 2018	Jun. 13, 2018~ Jul. 31, 2018	Apr. 24, 2019	Radiation (03CH07-HY)
Preamplifier	COM-POWER	PA-103A	161241	10MHz-1GHz	May 21, 2018	Jun. 13, 2018~ Jul. 31, 2018	May 20, 2019	Radiation (03CH07-HY)
Preamplifier	Agilent	8449B	3008A02362	1GHz~ 26.5GHz	Oct. 30, 2017	Jun. 13, 2018~ Jul. 31, 2018	Oct. 29, 2018	Radiation (03CH07-HY)
Spectrum Analyzer	Agilent	N9010A	MY53470118	10Hz~44GHz	Apr. 17, 2018	Jun. 13, 2018~ Jul. 31, 2018	Apr. 16, 2019	Radiation (03CH07-HY)
Antenna Mast	Max-Full	MFA520BS	N/A	1m~4m	N/A	Jun. 13, 2018~ Jul. 31, 2018	N/A	Radiation (03CH07-HY)
Turn Table	ChainTek	Chaintek 3000	N/A	0~360 Degree	N/A	Jun. 13, 2018~ Jul. 31, 2018	N/A	Radiation (03CH07-HY)
Amplifier	MITEQ	TTA1840-35-H G	1871923	18GHz~40GHz, VSWR : 2.5:1 max	Jul. 18, 2017	Jun. 13, 2018~ Jul. 15, 2018	Jul. 17, 2018	Radiation (03CH07-HY)
Amplifier	MITEQ	TTA1840-35-H G	1871923	18GHz~40GHz, VSWR : 2.5:1 max	Jul. 16, 2018	Jul. 16, 2018~ Jul. 31, 2018	Jul. 15, 2019	Radiation (03CH07-HY)



Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170251	18GHz- 40GHz	Nov. 10, 2017	Jun. 13, 2018~ Jul. 31, 2018	Nov. 09, 2018	Radiation (03CH07-HY)
EMI Test Receiver	Agilent	N9038A (MXE)	MY53290053	20Hz to 26.5GHz	Jan. 16, 2018	Jun. 13, 2018~ Jul. 31, 2018	Jan. 15, 2019	Radiation (03CH07-HY)
Software	Audix	E3 6.2009-8-24	8050400465 6H	N/A	N/A	Jun. 13, 2018~ Jul. 31, 2018	N/A	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY24971/4, MY28655/4	9KHz~30MHz	Jan. 02, 2018	Jun. 13, 2018~ Jul. 31, 2018	Jan. 01, 2019	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY28655/4, MY24971/4, MY15682/4	30MHz~1GHz	Feb. 27, 2018	Jun. 13, 2018~ Jul. 31, 2018	Feb. 26, 2019	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY28655/4, MY24971/4, MY15682/4	1GHz~18GHz	Feb. 27, 2018	Jun. 13, 2018~ Jul. 31, 2018	Feb. 26, 2019	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SF102/2*11SK 252	MY4278/2	9kHz~40GHz	May 17, 2018	Jun. 13, 2018~ Jul. 31, 2018	May 16, 2019	Radiation (03CH07-HY)
Filter	Microwave	H1G013G1	SN477215	1.0G High Pass	Dec. 07, 2017	Jun. 13, 2018~ Jul. 31, 2018	Dec. 06, 2018	Radiation (03CH07-HY)
Filter	Microwave	H3G018G1	SN477220	3.0G High Pass	Nov. 21, 2017	Jun. 13, 2018~ Jul. 31, 2018	Nov. 20, 2018	Radiation (03CH07-HY)
Filter	Microwave	WHKX7.0/26.5 G-6SS	SN4	7G High Pass	Nov. 21, 2017	Jun. 13, 2018~ Jul. 31, 2018	Nov. 20, 2018	Radiation (03CH07-HY)
Filter	Wainwright	WLKS1200-8S S	SN3	1.2G Low Pass	Nov. 21, 2017	Jun. 13, 2018~ Jul. 31, 2018	Nov. 20, 2018	Radiation (03CH07-HY)

5 Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	2.7
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Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.7
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Uncertainty of Radiated Emission Measurement (1000 MHz ~ 18000 MHz)

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

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

Test Engineer:	Kai Liao / Rebecca Li / Luffy Lin	Temperature:	21~25	°C
Test Date:	2018/6/7 ~ 2018/8/1	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	1	1	2412	13.85	13.80	9.04	8.04	0.50	Pass
11b	1Mbps	1	6	2437	13.95	13.80	8.10	9.06	0.50	Pass
11b	1Mbps	1	11	2462	13.90	14.00	9.04	8.10	0.50	Pass
11b	1Mbps	1	12	2467	13.75	13.70	9.04	9.06	0.50	Pass
11b	1Mbps	1	13	2472	13.65	13.50	8.08	9.04	0.50	Pass
11g	6Mbps	1	1	2412	16.80	16.65	15.04	15.08	0.50	Pass
11g	6Mbps	1	2	2417	-	16.80	-	15.08	0.50	Pass
11g	6Mbps	1	3	2422	-	17.20	-	15.04	0.50	Pass
11g	6Mbps	1	6	2437	18.35	19.60	15.08	15.12	0.50	Pass
11g	6Mbps	1	9	2452	-	17.15	-	15.12	0.50	Pass
11g	6Mbps	1	10	2457	-	16.80	-	15.08	0.50	Pass
11g	6Mbps	1	11	2462	16.80	16.75	15.08	15.08	0.50	Pass
11g	6Mbps	1	12	2467	16.65	16.65	15.08	15.08	0.50	Pass
11g	6Mbps	1	13	2472	16.70	16.70	15.12	15.08	0.50	Pass
HT20	MCS0	1	1	2412	17.80	17.70	15.08	15.12	0.50	Pass
HT20	MCS0	1	2	2417	-	17.80	-	15.08	0.50	Pass
HT20	MCS0	1	3	2422	-	18.10	-	15.08	0.50	Pass
HT20	MCS0	1	6	2437	19.50	22.80	15.08	15.08	0.50	Pass
HT20	MCS0	1	9	2452	-	18.05	-	15.08	0.50	Pass
HT20	MCS0	1	10	2457	19.85	17.85	15.08	15.08	0.50	Pass
HT20	MCS0	1	11	2462	17.75	17.70	15.08	15.04	0.50	Pass
HT20	MCS0	1	12	2467	17.70	17.65	15.08	15.08	0.50	Pass
HT20	MCS0	1	13	2472	17.65	17.65	15.08	15.08	0.50	Pass

TEST RESULTS DATA
Peak Output Power

2.4GHz Band																
Mod.	Data Rate	NTx	CH.	Freq. (MHz)	Peak Conducted Power (dBm)			Conducted Power Limit (dBm)		DG (dBi)		EIRP Power (dBm)		EIRP Power Limit (dBm)		Pass /Fail
					Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	
11b	1Mbps	1	1	2412	20.22	21.09	-	30.00	30.00	3.30	3.30	23.52	24.39	36.00	36.00	Pass
11b	1Mbps	1	6	2437	20.67	21.68	-	30.00	30.00	3.30	3.30	23.97	24.98	36.00	36.00	Pass
11b	1Mbps	1	11	2462	20.21	21.41	-	30.00	30.00	3.30	3.30	23.51	24.71	36.00	36.00	Pass
11b	1Mbps	1	12	2467	19.31	19.71	-	30.00	30.00	3.30	3.30	22.61	23.01	36.00	36.00	Pass
11b	1Mbps	1	13	2472	16.53	16.98	-	30.00	30.00	3.30	3.30	19.83	20.28	36.00	36.00	Pass
11g	6Mbps	1	1	2412	23.13	22.42	-	30.00	30.00	3.30	3.30	26.43	25.72	36.00	36.00	Pass
11g	6Mbps	1	2	2417	-	22.77	-	30.00	30.00	3.30	3.30	-	26.07	-	36.00	Pass
11g	6Mbps	1	3	2422	-	23.19	-	30.00	30.00	3.30	3.30	-	26.49	-	36.00	Pass
11g	6Mbps	1	6	2437	23.40	23.70	-	30.00	30.00	3.30	3.30	26.70	27.00	36.00	36.00	Pass
11g	6Mbps	1	9	2452	-	23.17	-	30.00	30.00	3.30	3.30	-	26.47	-	36.00	Pass
11g	6Mbps	1	10	2457	-	22.90	-	30.00	30.00	3.30	3.30	-	26.20	-	36.00	Pass
11g	6Mbps	1	11	2462	22.87	22.18	-	30.00	30.00	3.30	3.30	26.17	25.48	36.00	36.00	Pass
11g	6Mbps	1	12	2467	21.48	20.52	-	30.00	30.00	3.30	3.30	24.78	23.82	36.00	36.00	Pass
11g	6Mbps	1	13	2472	18.35	19.49	-	30.00	30.00	3.30	3.30	21.65	22.79	36.00	36.00	Pass
HT20	MCS0	1	1	2412	23.12	21.71	-	30.00	30.00	3.30	3.30	26.42	25.01	36.00	36.00	Pass
HT20	MCS0	1	2	2417	-	22.97	-	30.00	30.00	3.30	3.30	-	26.27	-	36.00	Pass
HT20	MCS0	1	3	2422	-	23.27	-	30.00	30.00	3.30	3.30	-	26.57	-	36.00	Pass
HT20	MCS0	1	6	2437	23.48	23.51	-	30.00	30.00	3.30	3.30	26.78	26.81	36.00	36.00	Pass
HT20	MCS0	1	9	2452	-	23.25	-	30.00	30.00	3.30	3.30	-	26.55	-	36.00	Pass
HT20	MCS0	1	10	2457	23.45	23.04	-	30.00	30.00	3.30	3.30	26.75	26.34	36.00	36.00	Pass
HT20	MCS0	1	11	2462	22.94	22.43	-	30.00	30.00	3.30	3.30	26.24	25.73	36.00	36.00	Pass
HT20	MCS0	1	12	2467	21.95	21.09	-	30.00	30.00	3.30	3.30	25.25	24.39	36.00	36.00	Pass
HT20	MCS0	1	13	2472	19.15	20.54	-	30.00	30.00	3.30	3.30	22.45	23.84	36.00	36.00	Pass

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

TEST RESULTS DATA
Average Output Power

2.4GHz Band									
Mod.	Data Rate	N _{TX}	CH.	Freq. (MHz)	Duty Factor (dB)		Average Conducted Power (dBm)		
					Ant 1	Ant 2	Ant 1	Ant 2	SUM
11b	1Mbps	1	1	2412	0.06	0.06	18.14	19.18	-
11b	1Mbps	1	6	2437	0.06	0.06	19.04	19.96	
11b	1Mbps	1	11	2462	0.06	0.06	18.12	19.69	
11b	1Mbps	1	12	2467	0.06	0.06	17.09	17.57	
11b	1Mbps	1	13	2472	0.06	0.06	14.43	14.84	
11g	6Mbps	1	1	2412	0.33	0.33	16.65	14.82	
11g	6Mbps	1	2	2417	0.33	0.33	-	16.02	
11g	6Mbps	1	3	2422	0.33	0.33	-	17.88	
11g	6Mbps	1	6	2437	0.33	0.33	18.84	19.39	
11g	6Mbps	1	9	2452	0.33	0.33	-	17.77	
11g	6Mbps	1	10	2457	0.33	0.33	-	15.67	
11g	6Mbps	1	11	2462	0.33	0.33	16.32	14.01	
11g	6Mbps	1	12	2467	0.33	0.33	12.66	11.68	
11g	6Mbps	1	13	2472	0.33	0.33	8.98	9.96	
HT20	MCS0	1	1	2412	0.32	0.35	15.57	14.18	
HT20	MCS0	1	2	2417	0.32	0.35	-	15.80	
HT20	MCS0	1	3	2422	0.32	0.35	-	17.39	
HT20	MCS0	1	6	2437	0.32	0.35	18.72	19.52	
HT20	MCS0	1	9	2452	0.32	0.35	-	17.06	
HT20	MCS0	1	10	2457	0.32	0.35	18.70	15.67	
HT20	MCS0	1	11	2462	0.32	0.35	15.56	13.40	
HT20	MCS0	1	12	2467	0.32	0.35	11.90	11.55	
HT20	MCS0	1	13	2472	0.32	0.35	8.79	9.80	

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

TEST RESULTS DATA
Peak Power Spectral Density

2.4GHz Band												
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Peak PSD (dBm/3kHz)			DG (dBi)		Peak PSD Limit (dBm/3kHz)		Pass/Fail
					Ant 1	Ant 2	Worse + 3.01	Ant 1	Ant 2	Ant 1	Ant 2	
11b	1Mbps	1	1	2412	-4.56	-3.67	-	3.30	3.30	8.00	8.00	Pass
11b	1Mbps	1	6	2437	-3.48	-1.60	-	3.30	3.30	8.00	8.00	Pass
11b	1Mbps	1	11	2462	-4.06	-2.82	-	3.30	3.30	8.00	8.00	Pass
11b	1Mbps	1	12	2467	-6.15	-4.08	-	3.30	3.30	8.00	8.00	Pass
11b	1Mbps	1	13	2472	-7.78	-8.12	-	3.30	3.30	8.00	8.00	Pass
11g	6Mbps	1	1	2412	-10.49	-12.50	-	3.30	3.30	8.00	8.00	Pass
11g	6Mbps	1	2	2417	-	-10.28	-	3.30	3.30	8.00	8.00	Pass
11g	6Mbps	1	3	2422	-	-8.88	-	3.30	3.30	8.00	8.00	Pass
11g	6Mbps	1	6	2437	-6.10	-7.31	-	3.30	3.30	8.00	8.00	Pass
11g	6Mbps	1	9	2452	-	-8.90	-	3.30	3.30	8.00	8.00	Pass
11g	6Mbps	1	10	2457	-	-11.99	-	3.30	3.30	8.00	8.00	Pass
11g	6Mbps	1	11	2462	-10.17	-12.02	-	3.30	3.30	8.00	8.00	Pass
11g	6Mbps	1	12	2467	-13.64	-15.81	-	3.30	3.30	8.00	8.00	Pass
11g	6Mbps	1	13	2472	-18.38	-16.85	-	3.30	3.30	8.00	8.00	Pass
HT20	MCS0	1	1	2412	-11.50	-9.93	-	3.30	3.30	8.00	8.00	Pass
HT20	MCS0	1	2	2417	-	-11.73	-	3.30	3.30	8.00	8.00	Pass
HT20	MCS0	1	3	2422	-	-8.89	-	3.30	3.30	8.00	8.00	Pass
HT20	MCS0	1	6	2437	-4.67	-7.11	-	3.30	3.30	8.00	8.00	Pass
HT20	MCS0	1	9	2452	-	-9.24	-	3.30	3.30	8.00	8.00	Pass
HT20	MCS0	1	10	2457	-7.68	-11.02	-	3.30	3.30	8.00	8.00	Pass
HT20	MCS0	1	11	2462	-11.09	-13.64	-	3.30	3.30	8.00	8.00	Pass
HT20	MCS0	1	12	2467	-14.52	-15.11	-	3.30	3.30	8.00	8.00	Pass
HT20	MCS0	1	13	2472	-18.11	-17.16	-	3.30	3.30	8.00	8.00	Pass

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



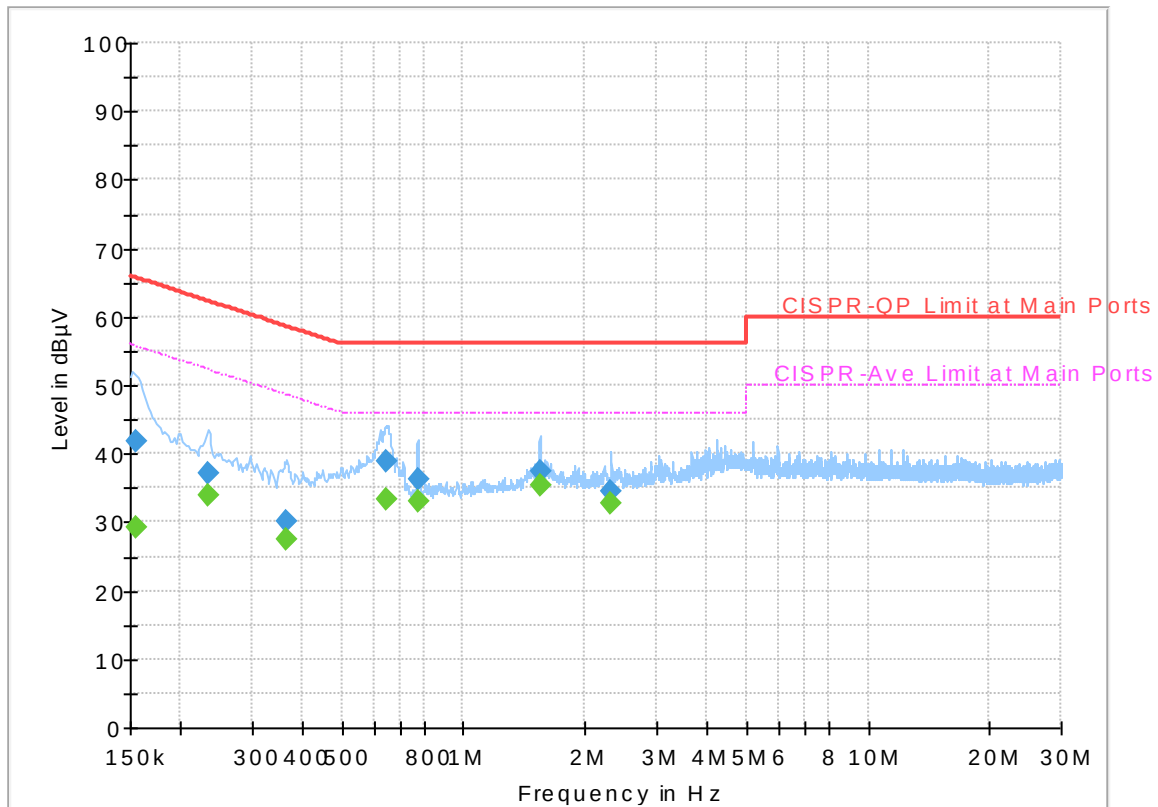
Appendix B. AC Conducted Emission Test Results

Test Engineer :	Arthur Hsieh	Temperature :	21~25°C
		Relative Humidity :	51~55%

EUT Information

Report NO : 831509-01
Test Mode : Mode 2
Test Voltage : 120Vac/60Hz
Phase : Line

Full Spectrum



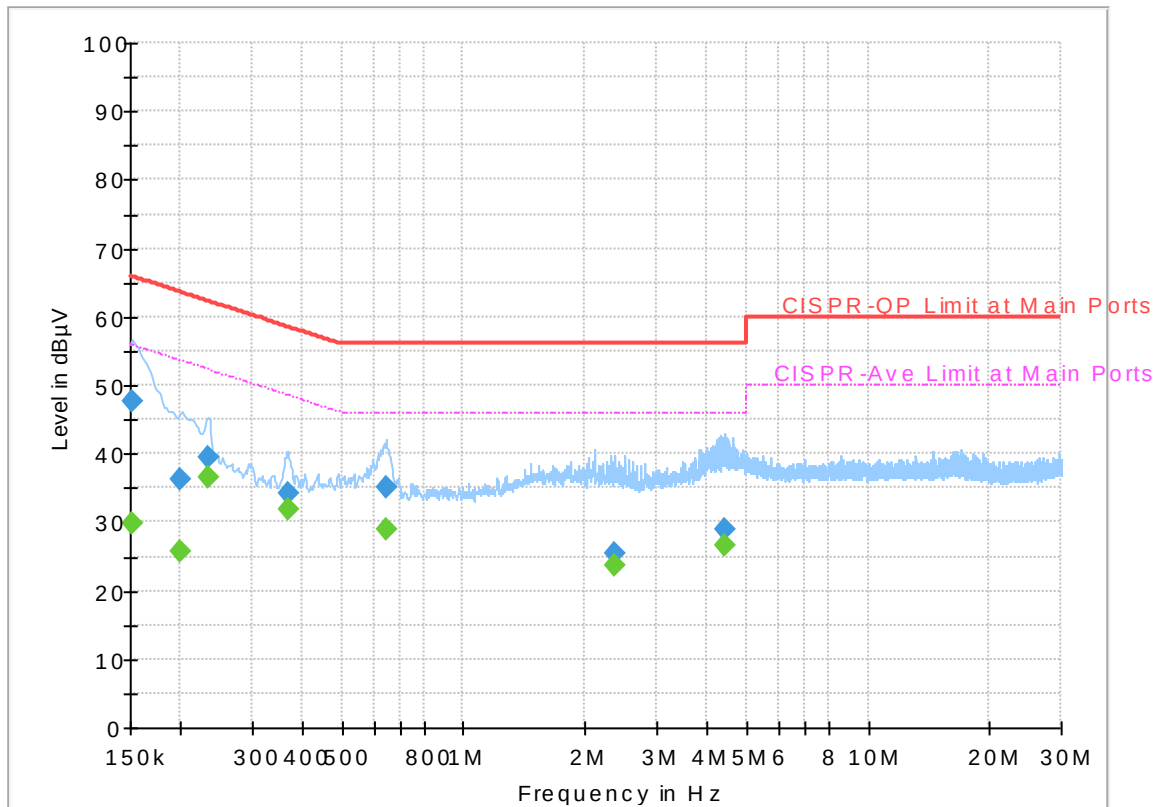
Final Result

Frequency (MHz)	QuasiPeak (dBµV)	CAverage (dBµV)	Limit (dBµV)	Margin (dB)	Line	Filter	Corr. (dB)
0.154500	---	29.17	55.75	26.58	L1	OFF	19.5
0.154500	41.83	---	65.75	23.92	L1	OFF	19.5
0.233250	---	33.78	52.33	18.55	L1	OFF	19.5
0.233250	37.04	---	62.33	25.29	L1	OFF	19.5
0.366000	---	27.38	48.59	21.21	L1	OFF	19.5
0.366000	30.10	---	58.59	28.49	L1	OFF	19.5
0.642750	---	33.38	46.00	12.62	L1	OFF	19.6
0.642750	38.84	---	56.00	17.16	L1	OFF	19.6
0.771000	---	33.17	46.00	12.83	L1	OFF	19.6
0.771000	36.19	---	56.00	19.81	L1	OFF	19.6
1.542750	---	35.35	46.00	10.65	L1	OFF	19.6
1.542750	37.46	---	56.00	18.54	L1	OFF	19.6
2.312250	---	32.82	46.00	13.18	L1	OFF	19.5
2.312250	34.52	---	56.00	21.48	L1	OFF	19.5

EUT Information

Report NO : 831509-01
Test Mode : Mode 2
Test Voltage : 120Vac/60Hz
Phase : Neutral

Full Spectrum



Final Result

Frequency (MHz)	QuasiPeak (dBμV)	CAverage (dBμV)	Limit (dBμV)	Margin (dB)	Line	Filter	Corr. (dB)
0.152250	---	29.94	55.88	25.94	N	OFF	19.5
0.152250	47.65	---	65.88	18.23	N	OFF	19.5
0.199500	---	25.84	53.63	27.79	N	OFF	19.5
0.199500	36.17	---	63.63	27.46	N	OFF	19.5
0.233250	---	36.67	52.33	15.66	N	OFF	19.5
0.233250	39.50	---	62.33	22.83	N	OFF	19.5
0.368250	---	32.01	48.54	16.53	N	OFF	19.5
0.368250	34.15	---	58.54	24.39	N	OFF	19.5
0.645000	---	28.90	46.00	17.10	N	OFF	19.6
0.645000	35.03	---	56.00	20.97	N	OFF	19.6
2.366250	---	23.63	46.00	22.37	N	OFF	19.5
2.366250	25.39	---	56.00	30.61	N	OFF	19.5
4.445250	---	26.58	46.00	19.42	N	OFF	19.7
4.445250	29.09	---	56.00	26.91	N	OFF	19.7



Appendix C. Radiated Spurious Emission

Test Engineer :	Jesse Wang, Stan Hsieh, and Nick Yu	Temperature :	24~26°C
		Relative Humidity :	51~53%

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		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11b CH 01 2412MHz		2350.32	54.86	-19.14	74	40.69	31.83	17.37	35.03	266	281	P	H
		2388.435	44.66	-9.34	54	30.32	31.95	17.43	35.04	266	281	A	H
	*	2412	110.08	-	-	95.71	31.99	17.43	35.05	266	281	P	H
	*	2412	106.92	-	-	92.55	31.99	17.43	35.05	266	281	A	H
													H
													H
		2388.645	54.85	-19.15	74	40.51	31.95	17.43	35.04	390	125	P	V
		2388.435	44.57	-9.43	54	30.23	31.95	17.43	35.04	390	125	A	V
	*	2412	108.22	-	-	93.85	31.99	17.43	35.05	390	125	P	V
	*	2412	105.09	-	-	90.72	31.99	17.43	35.05	390	125	A	V
													V
													V
802.11b CH 06 2437MHz		2349.06	55.18	-18.82	74	41.01	31.83	17.37	35.03	254	282	P	H
		2388.68	44.34	-9.66	54	30	31.95	17.43	35.04	254	282	A	H
	*	2437	111.19	-	-	96.68	32.08	17.49	35.06	254	282	P	H
	*	2437	108.22	-	-	93.71	32.08	17.49	35.06	254	282	A	H
		2484.88	55.56	-18.44	74	40.92	32.16	17.55	35.07	254	282	P	H
		2485.86	44.7	-9.3	54	30.06	32.16	17.55	35.07	254	282	A	H
		2362.92	55.16	-18.84	74	40.95	31.87	17.37	35.03	264	122	P	V
		2388.68	44.25	-9.75	54	29.91	31.95	17.43	35.04	264	122	A	V
	*	2437	109.68	-	-	95.17	32.08	17.49	35.06	264	122	P	V
	*	2437	106.59	-	-	92.08	32.08	17.49	35.06	264	122	A	V
		2483.55	55.53	-18.47	74	40.89	32.16	17.55	35.07	264	122	P	V
		2486	44.53	-9.47	54	29.89	32.16	17.55	35.07	264	122	A	V



802.11b CH 11 2462MHz	*	2462	110.38	-	-	95.77	32.12	17.55	35.06	283	284	P	H
	*	2462	107.22	-	-	92.61	32.12	17.55	35.06	283	284	A	H
		2495	55.54	-18.46	74	40.87	32.2	17.55	35.08	283	284	P	H
		2483.64	45.83	-8.17	54	31.19	32.16	17.55	35.07	283	284	A	H
													H
													H
	*	2462	108.9	-	-	94.29	32.12	17.55	35.06	292	121	P	V
	*	2462	105.85	-	-	91.24	32.12	17.55	35.06	292	121	A	V
		2488.2	55.51	-18.49	74	40.83	32.2	17.55	35.07	292	121	P	V
		2483.8	45.07	-8.93	54	30.43	32.16	17.55	35.07	292	121	A	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11b CH 12 2467MHz	*	2467	108.51	-	-	93.91	32.12	17.55	35.07	319	290	P	H
	*	2467	105.37	-	-	90.77	32.12	17.55	35.07	319	290	A	H
		2484	59.46	-14.54	74	44.82	32.16	17.55	35.07	319	290	P	H
		2484.08	52.18	-1.82	54	37.54	32.16	17.55	35.07	319	290	A	H
													H
													H
	*	2467	107.89	-	-	93.29	32.12	17.55	35.07	263	103	P	V
	*	2467	104.75	-	-	90.15	32.12	17.55	35.07	263	103	A	V
		2484.04	59.44	-14.56	74	44.8	32.16	17.55	35.07	263	103	P	V
		2484.12	52.14	-1.86	54	37.5	32.16	17.55	35.07	263	103	A	V
													V
													V
802.11b CH 13 2472MHz	*	2472	105.81	-	-	91.17	32.16	17.55	35.07	320	280	P	H
	*	2472	102.69	-	-	88.05	32.16	17.55	35.07	320	280	A	H
		2484.6	60.04	-13.96	74	45.4	32.16	17.55	35.07	320	280	P	H
		2484.8	53.3	-0.7	54	38.66	32.16	17.55	35.07	320	280	A	H
													H
													H
	*	2472	104.94	-	-	90.3	32.16	17.55	35.07	262	108	P	V
	*	2472	101.83	-	-	87.19	32.16	17.55	35.07	262	108	A	V
		2484.92	59.98	-14.02	74	45.34	32.16	17.55	35.07	262	108	P	V
		2484.8	52.83	-1.17	54	38.19	32.16	17.55	35.07	262	108	A	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz

WIFI 802.11b (Harmonic @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11b CH 01 2412MHz		4824	53.35	-20.65	74	67.34	34.23	11.12	59.34	337	128	P	H
		4824	50.24	-3.76	54	64.23	34.23	11.12	59.34	337	128	A	H
													H
													H
		4824	55.44	-18.56	74	69.43	34.23	11.12	59.34	378	8	P	V
		4824	52.8	-1.2	54	66.79	34.23	11.12	59.34	378	8	A	V
													V
													V
802.11b CH 06 2437MHz		4874	49.78	-24.22	74	63.64	34.22	11.16	59.24	100	0	P	H
		7311	48.78	-25.22	74	57.59	35.71	13.61	58.13	100	0	P	H
													H
													H
		4874	54.75	-19.25	74	68.61	34.22	11.16	59.24	400	31	P	V
		4874	52.89	-1.11	54	66.75	34.22	11.16	59.24	400	31	A	V
		7311	50.39	-23.61	74	59.2	35.71	13.61	58.13	100	180	P	V
		7311	44.82	-9.18	54	53.63	35.71	13.61	58.13	100	180	A	V
802.11b CH 11 2462MHz		4924	49.51	-24.49	74	63.22	34.21	11.22	59.14	100	0	P	H
		7386	47.64	-26.36	74	56.55	35.66	13.69	58.26	100	0	P	H
													H
													H
		4924	55.46	-18.54	74	69.17	34.21	11.22	59.14	323	12	P	V
		4924	53.48	-0.52	54	67.19	34.21	11.22	59.14	323	12	A	V
		7386	47.42	-26.58	74	56.33	35.66	13.69	58.26	100	0	P	V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11b CH 12 2467MHz		4934	48.17	-25.83	74	61.89	34.21	11.21	59.14	100	0	P	H
		7401	45.14	-28.86	74	54.08	35.65	13.69	58.28	100	0	P	H
													H
													H
		4934	53.6	-20.4	74	67.32	34.21	11.21	59.14	303	9	P	V
		4934	51.1	-2.9	54	64.82	34.21	11.21	59.14	303	9	A	V
		7401	45.62	-28.38	74	54.56	35.65	13.69	58.28	100	0	P	V
													V
802.11b CH 13 2472MHz		4944	44.62	-29.38	74	58.25	34.21	11.26	59.1	100	0	P	H
		7416	44.32	-29.68	74	53.27	35.65	13.68	58.28	100	0	P	H
													H
													H
		4944	49.28	-24.72	74	62.91	34.21	11.26	59.1	100	0	P	V
		7416	44.55	-29.45	74	53.5	35.65	13.68	58.28	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



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

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11g CH 01 2412MHz		2389.065	63.7	-10.3	74	49.36	31.95	17.43	35.04	336	289	P	H
		2390	53.02	-0.98	54	38.69	31.95	17.43	35.05	336	289	A	H
	*	2412	111.19	-	-	96.82	31.99	17.43	35.05	336	289	P	H
	*	2412	103.82	-	-	89.45	31.99	17.43	35.05	336	289	A	H
													H
													H
		2390	62.4	-11.6	74	48.07	31.95	17.43	35.05	180	24	P	V
		2390	51.87	-2.13	54	37.54	31.95	17.43	35.05	180	24	A	V
	*	2412	109.21	-	-	94.84	31.99	17.43	35.05	180	24	P	V
	*	2412	101.83	-	-	87.46	31.99	17.43	35.05	180	24	A	V
													V
													V
802.11g CH 06 2437MHz		2387.7	55.43	-18.57	74	41.09	31.95	17.43	35.04	294	288	P	H
		2389.8	45.73	-8.27	54	31.4	31.95	17.43	35.05	294	288	A	H
	*	2437	112.33	-	-	97.82	32.08	17.49	35.06	294	288	P	H
	*	2437	105.07	-	-	90.56	32.08	17.49	35.06	294	288	A	H
		2484.67	56.03	-17.97	74	41.39	32.16	17.55	35.07	294	288	P	H
		2484.18	45.89	-8.11	54	31.25	32.16	17.55	35.07	294	288	A	H
		2360.26	54.95	-19.05	74	40.74	31.87	17.37	35.03	251	24	P	V
		2384.34	45.38	-8.62	54	31.08	31.91	17.43	35.04	251	24	A	V
	*	2437	110.33	-	-	95.82	32.08	17.49	35.06	251	24	P	V
	*	2437	103.92	-	-	89.41	32.08	17.49	35.06	251	24	A	V
		2492.23	55	-19	74	40.33	32.2	17.55	35.08	251	24	P	V
		2484.88	45.27	-8.73	54	30.63	32.16	17.55	35.07	251	24	A	V



802.11g CH 11 2462MHz	*	2462	109.92	-	-	95.31	32.12	17.55	35.06	159	288	P	H
	*	2462	103.01	-	-	88.4	32.12	17.55	35.06	159	288	A	H
		2484	64.21	-9.79	74	49.57	32.16	17.55	35.07	159	288	P	H
		2483.56	52.21	-1.79	54	37.57	32.16	17.55	35.07	159	288	A	H
													H
													H
	*	2462	106.9	-	-	92.29	32.12	17.55	35.06	209	24	P	V
	*	2462	99.62	-	-	85.01	32.12	17.55	35.06	209	24	A	V
		2483.68	63.87	-10.13	74	49.23	32.16	17.55	35.07	209	24	P	V
		2483.52	51.27	-2.73	54	36.63	32.16	17.55	35.07	209	24	A	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11g CH 12 2467MHz	*	2467	105.72	-	-	91.12	32.12	17.55	35.07	177	288	P	H
	*	2467	98.64	-	-	84.04	32.12	17.55	35.07	177	288	A	H
		2483.88	65.39	-8.61	74	50.75	32.16	17.55	35.07	177	288	P	H
		2483.52	52.71	-1.29	54	38.07	32.16	17.55	35.07	177	288	A	H
													H
													H
	*	2467	105.06	-	-	90.46	32.12	17.55	35.07	188	22	P	V
	*	2467	97.41	-	-	82.81	32.12	17.55	35.07	188	22	A	V
		2483.64	63.88	-10.12	74	49.24	32.16	17.55	35.07	188	22	P	V
		2483.52	52.07	-1.93	54	37.43	32.16	17.55	35.07	188	22	A	V
													V
													V
802.11g CH 13 2472MHz	*	2472	102.78	-	-	88.14	32.16	17.55	35.07	222	294	P	H
	*	2472	95.37	-	-	80.73	32.16	17.55	35.07	222	294	A	H
		2485.48	64.58	-9.42	74	49.94	32.16	17.55	35.07	222	294	P	H
		2483.8	52.71	-1.29	54	38.07	32.16	17.55	35.07	222	294	A	H
													H
													H
	*	2472	101.11	-	-	86.47	32.16	17.55	35.07	123	23	P	V
	*	2472	93.53	-	-	78.89	32.16	17.55	35.07	123	23	A	V
		2485.12	61.54	-12.46	74	46.9	32.16	17.55	35.07	123	23	P	V
		2483.6	49.95	-4.05	54	35.31	32.16	17.55	35.07	123	23	A	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz

WIFI 802.11g (Harmonic @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11g CH 01 2412MHz		4824	48.02	-25.98	74	62.01	34.23	11.12	59.34	100	0	P	H
													H
													H
													H
		4824	53.45	-20.55	74	67.44	34.23	11.12	59.34	378	8	P	V
		4824	43.7	-10.3	54	57.69	34.23	11.12	59.34	378	8	A	V
													V
													V
802.11g CH 06 2437MHz		4874	45.52	-28.48	74	59.38	34.22	11.16	59.24	100	0	P	H
		7311	52.71	-21.29	74	61.52	35.71	13.61	58.13	100	256	P	H
		7311	42.5	-11.5	54	51.31	35.71	13.61	58.13	100	256	A	H
													H
		4874	52.79	-21.21	74	66.65	34.22	11.16	59.24	400	20	P	V
		4874	43.99	-10.01	54	57.85	34.22	11.16	59.24	400	20	A	V
		7311	58.27	-15.73	74	67.08	35.71	13.61	58.13	399	155	P	V
		7311	45.95	-8.05	54	54.76	35.71	13.61	58.13	399	155	A	V
802.11g CH 11 2462MHz		4924	45.16	-28.84	74	58.87	34.21	11.22	59.14	100	0	P	H
		7386	49	-25	74	57.91	35.66	13.69	58.26	100	0	P	H
													H
													H
		4924	53.4	-20.6	74	67.11	34.21	11.22	59.14	365	10	P	V
		4924	44.08	-9.92	54	57.79	34.21	11.22	59.14	365	10	A	V
		7386	49.9	-24.1	74	58.81	35.66	13.69	58.26	100	0	P	V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11g CH 12 2467MHz		4934	43.34	-30.66	74	57.06	34.21	11.21	59.14	100	0	P	H
		7401	44.38	-29.62	74	53.32	35.65	13.69	58.28	100	0	P	H
													H
													H
		4934	47.52	-26.48	74	61.24	34.21	11.21	59.14	100	0	P	V
		7401	46.59	-27.41	74	55.53	35.65	13.69	58.28	100	0	P	V
													V
													V
802.11g CH 13 2472MHz		4944	42.4	-31.6	74	56.03	34.21	11.26	59.1	100	0	P	H
		7416	43.29	-30.71	74	52.24	35.65	13.68	58.28	100	0	P	H
													H
													H
		4944	43.79	-30.21	74	57.42	34.21	11.26	59.1	100	0	P	V
		7416	42.92	-31.08	74	51.87	35.65	13.68	58.28	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz

WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 01 2412MHz		2390	63.49	-10.51	74	49.16	31.95	17.43	35.05	336	289	P	H
		2390	52.52	-1.48	54	38.19	31.95	17.43	35.05	336	289	A	H
	*	2412	109.84	-	-	95.47	31.99	17.43	35.05	336	289	P	H
	*	2412	102.32	-	-	87.95	31.99	17.43	35.05	336	289	A	H
													H
													H
		2390	65.28	-8.72	74	50.95	31.95	17.43	35.05	180	24	P	V
		2390	51.14	-2.86	54	36.81	31.95	17.43	35.05	180	24	A	V
	*	2412	107.76	-	-	93.39	31.99	17.43	35.05	180	24	P	V
	*	2412	100.41	-	-	86.04	31.99	17.43	35.05	180	24	A	V
													V
													V
802.11n HT20 CH 06 2437MHz		2389.24	57.74	-16.26	74	43.4	31.95	17.43	35.04	298	289	P	H
		2387.98	45.76	-8.24	54	31.42	31.95	17.43	35.04	298	289	A	H
	*	2437	112.27	-	-	97.76	32.08	17.49	35.06	298	289	P	H
	*	2437	105.02	-	-	90.51	32.08	17.49	35.06	298	289	A	H
		2495.24	57.15	-16.85	74	42.48	32.2	17.55	35.08	298	289	P	H
		2484.32	46.36	-7.64	54	31.72	32.16	17.55	35.07	298	289	A	H
		2388.54	56.48	-17.52	74	42.14	31.95	17.43	35.04	251	24	P	V
		2389.8	45.67	-8.33	54	31.34	31.95	17.43	35.05	251	24	A	V
	*	2437	111.12	-	-	96.61	32.08	17.49	35.06	251	24	P	V
	*	2437	103.62	-	-	89.11	32.08	17.49	35.06	251	24	A	V
		2488.94	54.94	-19.06	74	40.26	32.2	17.55	35.07	251	24	P	V
		2483.62	45.32	-8.68	54	30.68	32.16	17.55	35.07	251	24	A	V



802.11n HT20 CH 10 2457MHz	*	2457	112.35	-	-	97.8	32.12	17.49	35.06	316	309	P	H
	*	2457	104.68	-	-	90.13	32.12	17.49	35.06	316	309	A	H
		2484.12	66.37	-7.63	74	51.73	32.16	17.55	35.07	316	309	P	H
		2483.6	52.17	-1.83	54	37.53	32.16	17.55	35.07	316	309	P	H
													H
													H
	*	2457	110.95	-	-	96.4	32.12	17.49	35.06	302	294	P	V
	*	2457	103.26	-	-	88.71	32.12	17.49	35.06	302	294	A	V
		2483.72	65.37	-8.63	74	50.73	32.16	17.55	35.07	302	294	P	V
		2483.56	51.05	-2.95	54	36.41	32.16	17.55	35.07	302	294	P	V
													V
													V
802.11n HT20 CH 11 2462MHz	*	2462	109.82	-	-	95.21	32.12	17.55	35.06	161	290	P	H
	*	2462	102.27	-	-	87.66	32.12	17.55	35.06	161	290	A	H
		2485	64.34	-9.66	74	49.7	32.16	17.55	35.07	161	290	P	H
		2483.6	53.24	-0.76	54	38.6	32.16	17.55	35.07	161	290	P	H
													H
													H
	*	2462	107.59	-	-	92.98	32.12	17.55	35.06	178	20	P	V
	*	2462	100.32	-	-	85.71	32.12	17.55	35.06	178	20	A	V
		2483.52	64.71	-9.29	74	50.07	32.16	17.55	35.07	178	20	P	V
		2483.56	53.21	-0.79	54	38.57	32.16	17.55	35.07	178	20	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 12 2467MHz	*	2467	106.1	-	-	91.5	32.12	17.55	35.07	321	280	P	H
	*	2467	98.59	-	-	83.99	32.12	17.55	35.07	321	280	A	H
		2483.92	67.59	-6.41	74	52.95	32.16	17.55	35.07	321	280	P	H
		2483.52	52.76	-1.24	54	38.12	32.16	17.55	35.07	321	280	A	H
													H
													H
	*	2467	104.12	-	-	89.52	32.12	17.55	35.07	188	22	P	V
	*	2467	96.75	-	-	82.15	32.12	17.55	35.07	188	22	A	V
		2483.6	66.56	-7.44	74	51.92	32.16	17.55	35.07	188	22	P	V
		2483.52	51.18	-2.82	54	36.54	32.16	17.55	35.07	188	22	A	V
													V
													V
802.11n HT20 CH 13 2472MHz	*	2472	102.99	-	-	88.35	32.16	17.55	35.07	278	294	P	H
	*	2472	95.5	-	-	80.86	32.16	17.55	35.07	278	294	A	H
		2483.52	71.53	-2.47	74	56.89	32.16	17.55	35.07	278	294	P	H
		2483.52	53.26	-0.74	54	38.62	32.16	17.55	35.07	278	294	A	H
													H
													H
	*	2472	100.85	-	-	86.21	32.16	17.55	35.07	188	22	P	V
	*	2472	93.08	-	-	78.44	32.16	17.55	35.07	188	22	A	V
		2483.72	67.67	-6.33	74	53.03	32.16	17.55	35.07	188	22	P	V
		2483.52	50.66	-3.34	54	36.02	32.16	17.55	35.07	188	22	A	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



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

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 01 2412MHz		4824	46.15	-27.85	74	60.14	34.23	11.12	59.34	100	0	P	H
													H
													H
													H
		4824	51.31	-22.69	74	65.3	34.23	11.12	59.34	400	227	P	V
		4824	41.5	-12.5	54	55.49	34.23	11.12	59.34	400	227	A	V
													V
													V
802.11n HT20 CH 06 2437MHz		4874	47.07	-26.93	74	60.93	34.22	11.16	59.24	100	0	P	H
		7311	52.45	-21.55	74	61.26	35.71	13.61	58.13	100	250	P	H
		7311	41.85	-12.15	54	50.66	35.71	13.61	58.13	100	250	A	H
													H
		4874	54.38	-19.62	74	68.24	34.22	11.16	59.24	399	20	P	V
		4874	44.38	-9.62	54	58.24	34.22	11.16	59.24	399	20	A	V
		7311	55.83	-18.17	74	64.64	35.71	13.61	58.13	397	153	P	V
		7311	45.77	-8.23	54	54.58	35.71	13.61	58.13	397	153	A	V
802.11n HT20 CH 11 2462MHz		4924	45.3	-28.7	74	59.01	34.21	11.22	59.14	100	0	P	H
		7386	47.7	-26.3	74	56.61	35.66	13.69	58.26	100	0	P	H
													H
													H
		4924	52.56	-21.44	74	66.27	34.21	11.22	59.14	361	360	P	V
		4924	41.73	-12.27	54	55.44	34.21	11.22	59.14	361	360	A	V
		7386	49.94	-24.06	74	58.85	35.66	13.69	58.26	100	0	P	V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 12 2467MHz		4934	43.41	-30.59	74	57.13	34.21	11.21	59.14	100	0	P	H
		7401	44.19	-29.81	74	53.13	35.65	13.69	58.28	100	0	P	H
													H
													H
		4934	47.47	-26.53	74	61.19	34.21	11.21	59.14	100	0	P	V
		7401	43.86	-30.14	74	52.8	35.65	13.69	58.28	100	0	P	V
													V
													V
802.11n HT20 CH 13 2472MHz		4944	43.34	-30.66	74	56.97	34.21	11.26	59.1	100	0	P	H
		7416	43.67	-30.33	74	52.62	35.65	13.68	58.28	100	0	P	H
													H
													H
		4944	45.73	-28.27	74	59.36	34.21	11.26	59.1	100	0	P	V
		7416	44.79	-29.21	74	53.74	35.65	13.68	58.28	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz

Emission below 1GHz

2.4GHz WIFI 802.11b (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		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
2.4GHz 802.11b LF		45.39	23.13	-16.87	40	37.14	16.3	1.25	31.56	-	-	P	H
		128.28	24.96	-18.54	43.5	37.01	17.53	1.95	31.53	-	-	P	H
		207.93	33.41	-10.09	43.5	47.53	15.07	2.25	31.44	100	0	P	H
		416.2	29.62	-16.38	46	35.04	22.4	3.29	31.11	-	-	P	H
		846.7	30.52	-15.48	46	27.72	28.68	4.68	30.56	-	-	P	H
		974.1	32.37	-21.63	54	27	30.84	5.04	30.51	-	-	P	H
													H
													H
													H
													H
													H
													H
		82.11	17.87	-22.13	40	34.26	13.52	1.67	31.58	-	-	P	V
		158.25	26.8	-16.7	43.5	39.38	16.67	2.25	31.5	-	-	P	V
		199.02	30.28	-13.22	43.5	44.56	14.89	2.28	31.45	100	0	P	V
		416.2	25.83	-20.17	46	31.25	22.4	3.29	31.11	-	-	P	V
		624.1	31.85	-14.15	46	32.95	25.64	4.05	30.79	-	-	P	V
		990.2	32.31	-21.69	54	27.2	30.53	5.09	30.51	-	-	P	V
													V
													V
													V
													V
													V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against limit line.												



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.	
2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11b CH 01 2412MHz		2387.385	56.01	-17.99	74	41.67	31.95	17.43	35.04	300	193	P	H
		2387.07	47.21	-6.79	54	32.87	31.95	17.43	35.04	300	193	A	H
	*	2412	108	-	-	93.63	31.99	17.43	35.05	300	193	P	H
	*	2412	104.87	-	-	90.5	31.99	17.43	35.05	300	193	A	H
													H
													H
		2386.755	57.28	-16.72	74	42.94	31.95	17.43	35.04	214	0	P	V
		2387.07	48.83	-5.17	54	34.49	31.95	17.43	35.04	214	0	A	V
	*	2412	109.91	-	-	95.54	31.99	17.43	35.05	214	0	P	V
	*	2412	106.74	-	-	92.37	31.99	17.43	35.05	214	0	A	V
													V
													V
802.11b CH 06 2437MHz		2338.42	55.95	-18.05	74	41.83	31.83	17.31	35.02	288	151	P	H
		2389.52	44.35	-9.65	54	30.01	31.95	17.43	35.04	288	151	A	H
	*	2437	109.38	-	-	94.87	32.08	17.49	35.06	288	151	P	H
	*	2437	106.27	-	-	91.76	32.08	17.49	35.06	288	151	A	H
		2497.13	56.31	-17.69	74	41.64	32.2	17.55	35.08	288	151	P	H
		2485.72	44.86	-9.14	54	30.22	32.16	17.55	35.07	288	151	A	H
		2385.6	55.78	-18.22	74	41.44	31.95	17.43	35.04	241	1	P	V
		2389.94	44.72	-9.28	54	30.39	31.95	17.43	35.05	241	1	A	V
	*	2437	109.71	-	-	95.2	32.08	17.49	35.06	241	1	P	V
	*	2437	106.62	-	-	92.11	32.08	17.49	35.06	241	1	A	V
		2487.54	55.34	-18.66	74	40.66	32.2	17.55	35.07	241	1	P	V
		2485.72	44.57	-9.43	54	29.93	32.16	17.55	35.07	241	1	A	V



802.11b CH 11 2462MHz	*	2462	109.67	-	-	95.06	32.12	17.55	35.06	394	152	P	H
	*	2462	106.54	-	-	91.93	32.12	17.55	35.06	394	152	A	H
		2487	58.55	-15.45	74	43.91	32.16	17.55	35.07	394	152	P	H
		2483.52	50.98	-3.02	54	36.34	32.16	17.55	35.07	394	152	A	H
													H
													H
	*	2462	110.23	-	-	95.62	32.12	17.55	35.06	124	349	P	V
	*	2462	107.11	-	-	92.5	32.12	17.55	35.06	124	349	A	V
		2483.64	58.07	-15.93	74	43.43	32.16	17.55	35.07	124	349	P	V
		2488.76	51.07	-2.93	54	36.39	32.2	17.55	35.07	124	349	A	V
													V
													V
Remark	3. No other spurious found. 4. All results are PASS against Peak and Average limit line.												



WIFI Ant. 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	107.91	-	-	93.31	32.12	17.55	35.07	394	150	P	H
	*	2467	104.81	-	-	90.21	32.12	17.55	35.07	394	150	A	H
		2483.52	58.99	-15.01	74	44.35	32.16	17.55	35.07	394	150	P	H
		2483.52	52.88	-1.12	54	38.24	32.16	17.55	35.07	394	150	A	H
													H
													H
	*	2467	108.55	-	-	93.95	32.12	17.55	35.07	124	353	P	V
	*	2467	105.44	-	-	90.84	32.12	17.55	35.07	124	353	A	V
		2483.8	58.87	-15.13	74	44.23	32.16	17.55	35.07	124	353	P	V
		2483.52	52.35	-1.65	54	37.71	32.16	17.55	35.07	124	353	A	V
													V
													V
802.11b CH 13 2472MHz	*	2472	105.34	-	-	90.7	32.16	17.55	35.07	394	149	P	H
	*	2472	102.24	-	-	87.6	32.16	17.55	35.07	394	149	A	H
		2484.56	60.05	-13.95	74	45.41	32.16	17.55	35.07	394	149	P	H
		2484.76	52.71	-1.29	54	38.07	32.16	17.55	35.07	394	149	A	H
													H
													H
	*	2472	105.63	-	-	90.99	32.16	17.55	35.07	106	350	P	V
	*	2472	102.48	-	-	87.84	32.16	17.55	35.07	106	350	A	V
		2484.76	59.03	-14.97	74	44.39	32.16	17.55	35.07	106	350	P	V
		2484.72	52.89	-1.11	54	38.25	32.16	17.55	35.07	106	350	A	V
													V
													V
Remark	3. No other spurious found.												
	4. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz

WIFI 802.11b (Harmonic @ 3m)

WIFI Ant. 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	52.46	-21.54	74	66.45	34.23	11.12	59.34	306	63	P	H
		4824	49.22	-4.78	54	63.21	34.23	11.12	59.34	306	63	A	H
													H
													H
		4824	55.35	-18.65	74	69.34	34.23	11.12	59.34	359	233	P	V
		4824	53.33	-0.67	54	67.32	34.23	11.12	59.34	359	233	A	V
													V
													V
802.11b CH 06 2437MHz		4874	54.29	-19.71	74	68.15	34.22	11.16	59.24	258	72	P	H
		4874	52.67	-1.33	54	66.53	34.22	11.16	59.24	258	72	A	H
		7311	54	-20	74	62.81	35.71	13.61	58.13	210	101	P	H
		7311	50.51	-3.49	54	59.32	35.71	13.61	58.13	210	101	A	H
		4874	54.68	-19.32	74	68.54	34.22	11.16	59.24	372	233	P	V
		4874	53.49	-0.51	54	67.35	34.22	11.16	59.24	372	233	A	V
		7311	53.84	-20.16	74	62.65	35.71	13.61	58.13	220	311	P	V
		7311	51.01	-2.99	54	59.82	35.71	13.61	58.13	220	311	A	V
802.11b CH 11 2462MHz		4924	54.96	-19.04	74	68.67	34.21	11.22	59.14	257	70	P	H
		4924	52.97	-1.03	54	66.68	34.21	11.22	59.14	257	70	A	H
		7386	56.48	-17.52	74	65.39	35.66	13.69	58.26	219	100	P	H
		7386	51.34	-2.66	54	60.25	35.66	13.69	58.26	219	100	A	H
		4924	54.36	-19.64	74	68.07	34.21	11.22	59.14	345	159	P	V
		4924	52.75	-1.25	54	66.46	34.21	11.22	59.14	345	159	A	V
		7386	56.53	-17.47	74	65.44	35.66	13.69	58.26	213	311	P	V
		7386	52.71	-1.29	54	61.62	35.66	13.69	58.26	213	311	A	V
Remark	3. No other spurious found. 4. All results are PASS against Peak and Average limit line.												



WIFI Ant. 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	48.42	-25.58	74	62.14	34.21	11.21	59.14	100	0	P	H
		7401	49.98	-24.02	74	58.92	35.65	13.69	58.28	100	0	P	H
													H
													H
		4934	49.06	-24.94	74	62.78	34.21	11.21	59.14	100	0	P	V
		7401	49.45	-24.55	74	58.39	35.65	13.69	58.28	100	0	P	V
													V
													V
802.11b CH 13 2472MHz		4944	44.44	-29.56	74	58.07	34.21	11.26	59.1	100	0	P	H
		7416	43.97	-30.03	74	52.92	35.65	13.68	58.28	100	0	P	H
													H
													H
		4944	47.57	-26.43	74	61.2	34.21	11.26	59.1	100	0	P	V
		7416	44.1	-29.9	74	53.05	35.65	13.68	58.28	100	0	P	V
													V
													V
Remark	3. No other spurious found. 4. All results are PASS against Peak and Average limit line.												



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

WIFI Ant. 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		2387.7	62.74	-11.26	74	48.4	31.95	17.43	35.04	292	129	P	H
		2390	52.3	-1.7	54	37.97	31.95	17.43	35.05	292	129	A	H
	*	2412	107.95	-	-	93.58	31.99	17.43	35.05	292	129	P	H
	*	2412	100.7	-	-	86.33	31.99	17.43	35.05	292	129	A	H
													H
													H
		2389.065	63.99	-10.01	74	49.65	31.95	17.43	35.04	156	353	P	V
		2389.905	52.43	-1.57	54	38.1	31.95	17.43	35.05	156	353	A	V
	*	2412	108.03	-	-	93.66	31.99	17.43	35.05	156	353	P	V
	*	2412	100.39	-	-	86.02	31.99	17.43	35.05	156	353	A	V
													V
													V
802.11g CH 02 2417MHz		2388.75	65.92	-8.08	74	51.58	31.95	17.43	35.04	264	74	P	H
		2389.905	51.65	-2.35	54	37.32	31.95	17.43	35.05	264	74	A	H
	*	2417	109.45	-	-	95.09	31.99	17.43	35.06	264	74	P	H
	*	2417	101.79	-	-	87.43	31.99	17.43	35.06	264	74	A	H
													H
													H
		2390	63.54	-10.46	74	49.21	31.95	17.43	35.05	150	346	P	V
		2389.485	51.42	-2.58	54	37.08	31.95	17.43	35.04	150	346	A	V
	*	2417	108.49	-	-	94.13	31.99	17.43	35.06	150	346	P	V
	*	2417	100.88	-	-	86.52	31.99	17.43	35.06	150	346	A	V
													V
													V
Remark	3. No other spurious found.												
	4. All results are PASS against Peak and Average limit line.												



WIFI Ant. 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 03 2422MHz		2388.54	60.45	-13.55	74	46.11	31.95	17.43	35.04	284	138	P	H
		2389.38	49.84	-4.16	54	35.5	31.95	17.43	35.04	284	138	A	H
	*	2422	110.16	-	-	95.7	32.03	17.49	35.06	284	138	P	H
	*	2422	102.87	-	-	88.41	32.03	17.49	35.06	284	138	A	H
													H
													H
		2389.38	65.47	-8.53	74	51.13	31.95	17.43	35.04	142	351	P	V
		2389.52	52.98	-1.02	54	38.64	31.95	17.43	35.04	142	351	A	V
	*	2422	111.16	-	-	96.7	32.03	17.49	35.06	142	351	P	V
	*	2422	103.56	-	-	89.1	32.03	17.49	35.06	142	351	A	V
													V
													V
802.11g CH 06 2437MHz		2389.24	58.92	-15.08	74	44.58	31.95	17.43	35.04	289	129	P	H
		2389.52	48.91	-5.09	54	34.57	31.95	17.43	35.04	289	129	A	H
	*	2437	112.56	-	-	98.05	32.08	17.49	35.06	289	129	P	H
	*	2437	105.22	-	-	90.71	32.08	17.49	35.06	289	129	A	H
		2484.11	61.26	-12.74	74	46.62	32.16	17.55	35.07	289	129	P	H
		2483.9	48.8	-5.2	54	34.16	32.16	17.55	35.07	289	129	A	H
		2389.8	61.13	-12.87	74	46.8	31.95	17.43	35.05	132	350	P	V
		2389.66	49.69	-4.31	54	35.35	31.95	17.43	35.04	132	350	A	V
	*	2437	111.97	-	-	97.46	32.08	17.49	35.06	132	350	P	V
	*	2437	104.56	-	-	90.05	32.08	17.49	35.06	132	350	A	V
		2484.25	60.23	-13.77	74	45.59	32.16	17.55	35.07	132	350	P	V
		2483.76	49.57	-4.43	54	34.93	32.16	17.55	35.07	132	350	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



WIFI Ant. 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 09 2452MHz	*	2452	110.06	-	-	95.55	32.08	17.49	35.06	316	137	P	H
	*	2452	102.9	-	-	88.39	32.08	17.49	35.06	316	137	A	H
		2483.86	63.98	-10.02	74	49.34	32.16	17.55	35.07	316	137	P	H
		2483.5	52.01	-1.99	54	37.37	32.16	17.55	35.07	316	137	A	H
													H
													H
	*	2452	110.71	-	-	96.2	32.08	17.49	35.06	131	351	P	V
	*	2452	102.96	-	-	88.45	32.08	17.49	35.06	131	351	A	V
		2484.64	64.13	-9.87	74	49.49	32.16	17.55	35.07	131	351	P	V
		2483.5	52.23	-1.77	54	37.59	32.16	17.55	35.07	131	351	A	V
													V
													V
802.11g CH 10 2457MHz	*	2457	108.81	-	-	94.26	32.12	17.49	35.06	311	137	P	H
	*	2457	101.27	-	-	86.72	32.12	17.49	35.06	311	137	A	H
		2483.52	68.21	-5.79	74	53.57	32.16	17.55	35.07	311	137	P	H
		2483.6	52.25	-1.75	54	37.61	32.16	17.55	35.07	311	137	A	H
													H
													H
	*	2457	108.23	-	-	93.68	32.12	17.49	35.06	162	349	P	V
	*	2457	100.6	-	-	86.05	32.12	17.49	35.06	162	349	A	V
		2484.16	65.94	-8.06	74	51.3	32.16	17.55	35.07	162	349	P	V
		2483.72	50.91	-3.09	54	36.27	32.16	17.55	35.07	162	349	A	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



WIFI Ant. 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 11 2462MHz	*	2462	107.11	-	-	92.5	32.12	17.55	35.06	394	150	P	H
	*	2462	99.49	-	-	84.88	32.12	17.55	35.06	394	150	A	H
		2484.16	64.21	-9.79	74	49.57	32.16	17.55	35.07	394	150	P	H
		2483.52	52.73	-1.27	54	38.09	32.16	17.55	35.07	394	150	A	H
													H
													H
	*	2462	107.28	-	-	92.67	32.12	17.55	35.06	121	349	P	V
	*	2462	100	-	-	85.39	32.12	17.55	35.06	121	349	A	V
		2484.52	63.25	-10.75	74	48.61	32.16	17.55	35.07	121	349	P	V
		2483.6	52.11	-1.89	54	37.47	32.16	17.55	35.07	121	349	A	V
													V
													V
802.11g CH 12 2467MHz	*	2467	104.4	-	-	89.8	32.12	17.55	35.07	395	149	P	H
	*	2467	96.94	-	-	82.34	32.12	17.55	35.07	395	149	A	H
		2483.56	67.32	-6.68	74	52.68	32.16	17.55	35.07	395	149	P	H
		2483.6	52.56	-1.44	54	37.92	32.16	17.55	35.07	395	149	A	H
													H
													H
	*	2467	105.5	-	-	90.9	32.12	17.55	35.07	122	352	P	V
	*	2467	97.5	-	-	82.9	32.12	17.55	35.07	122	352	A	V
		2483.52	65.62	-8.38	74	50.98	32.16	17.55	35.07	122	352	P	V
		2483.52	51.82	-2.18	54	37.18	32.16	17.55	35.07	122	352	A	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



WIFI Ant. 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 13 2472MHz	*	2472	103.02	-	-	88.38	32.16	17.55	35.07	395	160	P	H
	*	2472	95.58	-	-	80.94	32.16	17.55	35.07	395	160	A	H
		2484.4	65.04	-8.96	74	50.4	32.16	17.55	35.07	395	160	P	H
		2483.52	52.11	-1.89	54	37.47	32.16	17.55	35.07	395	160	A	H
													H
													H
	*	2472	103.31	-	-	88.67	32.16	17.55	35.07	105	350	P	V
	*	2472	95.73	-	-	81.09	32.16	17.55	35.07	105	350	A	V
		2483.52	64.48	-9.52	74	49.84	32.16	17.55	35.07	105	350	P	V
		2483.52	51.52	-2.48	54	36.88	32.16	17.55	35.07	105	350	A	V
													V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz

WIFI 802.11g (Harmonic @ 3m)

WIFI Ant. 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	43.16	-30.84	74	57.15	34.23	11.12	59.34	100	0	P	H
													H
													H
													H
		4824	47.33	-26.67	74	61.32	34.23	11.12	59.34	100	0	P	V
													V
													V
													V
802.11g CH 06 2437MHz		4874	48.28	-25.72	74	62.14	34.22	11.16	59.24	100	0	P	H
		7311	58.85	-15.15	74	67.66	35.71	13.61	58.13	204	100	P	H
		7311	48.33	-5.67	54	57.14	35.71	13.61	58.13	204	100	A	H
													H
		4874	49.81	-24.19	74	63.67	34.22	11.16	59.24	100	0	P	V
		7311	57.13	-16.87	74	65.94	35.71	13.61	58.13	225	320	P	V
		7311	46.92	-7.08	54	55.73	35.71	13.61	58.13	225	320	A	V
													V
802.11g CH 11 2462MHz		4924	43.64	-30.36	74	57.35	34.21	11.22	59.14	100	0	P	H
		7386	45.87	-28.13	74	54.78	35.66	13.69	58.26	100	0	P	H
													H
													H
		4924	44.75	-29.25	74	58.46	34.21	11.22	59.14	100	0	P	V
		7386	46.53	-27.47	74	55.44	35.66	13.69	58.26	100	0	P	V
													V
													V
Remark	3. No other spurious found. 4. All results are PASS against Peak and Average limit line.												



WIFI Ant. 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		4934	42.07	-31.93	74	55.79	34.21	11.21	59.14	100	0	P	H
		7401	43.93	-30.07	74	52.87	35.65	13.69	58.28	100	0	P	H
													H
													H
		4934	44.04	-29.96	74	57.76	34.21	11.21	59.14	100	0	P	V
		7401	43.25	-30.75	74	52.19	35.65	13.69	58.28	100	0	P	V
													V
													V
802.11g CH 13 2472MHz		4944	41.4	-32.6	74	55.03	34.21	11.26	59.1	100	0	P	H
		7416	41.71	-32.29	74	50.66	35.65	13.68	58.28	100	0	P	H
													H
													H
		4944	42.38	-31.62	74	56.01	34.21	11.26	59.1	100	0	P	V
		7416	43.24	-30.76	74	52.19	35.65	13.68	58.28	100	0	P	V
													V
													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 (Band Edge @ 3m)

WIFI Ant. 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		2389.38	65.9	-8.1	74	51.56	31.95	17.43	35.04	291	130	P	H
		2390	52.36	-1.64	54	38.03	31.95	17.43	35.05	291	130	A	H
	*	2412	107.19	-	-	92.82	31.99	17.43	35.05	291	130	P	H
	*	2412	99.8	-	-	85.43	31.99	17.43	35.05	291	130	A	H
													H
													H
		2389.905	66.12	-7.88	74	51.79	31.95	17.43	35.05	153	351	P	V
		2390	52.89	-1.11	54	38.56	31.95	17.43	35.05	153	351	A	V
	*	2412	107.04	-	-	92.67	31.99	17.43	35.05	153	351	P	V
	*	2412	99.6	-	-	85.23	31.99	17.43	35.05	153	351	A	V
													V
													V
802.11n HT20 CH 02 2417MHz		2389.17	67.2	-6.8	74	52.86	31.95	17.43	35.04	290	74	P	H
		2390	52.42	-1.58	54	38.09	31.95	17.43	35.05	290	74	A	H
	*	2417	109.22	-	-	94.86	31.99	17.43	35.06	290	74	P	H
	*	2417	101.25	-	-	86.89	31.99	17.43	35.06	290	74	A	H
													H
													H
		2389.38	66.22	-7.78	74	51.88	31.95	17.43	35.04	150	346	P	V
		2389.695	51.99	-2.01	54	37.65	31.95	17.43	35.04	150	346	A	V
	*	2417	107.9	-	-	93.54	31.99	17.43	35.06	150	346	P	V
	*	2417	100.17	-	-	85.81	31.99	17.43	35.06	150	346	A	V
													V
													V
Remark	3. No other spurious found. 4. All results are PASS against Peak and Average limit line.												



WIFI Ant. 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 03 2422MHz		2389.52	62.45	-11.55	74	48.11	31.95	17.43	35.04	284	137	P	H
		2389.8	49.5	-4.5	54	35.17	31.95	17.43	35.05	284	137	A	H
	*	2422	109.46	-	-	95	32.03	17.49	35.06	284	137	P	H
	*	2422	102.19	-	-	87.73	32.03	17.49	35.06	284	137	A	H
													H
													H
		2389.66	66.24	-7.76	74	51.9	31.95	17.43	35.04	143	347	P	V
		2389.94	52.14	-1.86	54	37.81	31.95	17.43	35.05	143	347	A	V
	*	2422	110.07	-	-	95.61	32.03	17.49	35.06	143	347	P	V
	*	2422	102.49	-	-	88.03	32.03	17.49	35.06	143	347	A	V
													V
													V
802.11n HT20 CH 06 2437MHz		2389.66	62.18	-11.82	74	47.84	31.95	17.43	35.04	289	128	P	H
		2389.94	50.54	-3.46	54	36.21	31.95	17.43	35.05	289	128	A	H
	*	2437	112.83	-	-	98.32	32.08	17.49	35.06	289	128	P	H
	*	2437	105.07	-	-	90.56	32.08	17.49	35.06	289	128	A	H
		2485.72	64.64	-9.36	74	50	32.16	17.55	35.07	289	128	P	H
		2483.5	51.48	-2.52	54	36.84	32.16	17.55	35.07	289	128	A	H
		2387.84	63.04	-10.96	74	48.7	31.95	17.43	35.04	133	351	P	V
		2389.94	51.7	-2.3	54	37.37	31.95	17.43	35.05	133	351	A	V
	*	2437	111.81	-	-	97.3	32.08	17.49	35.06	133	351	P	V
	*	2437	104.63	-	-	90.12	32.08	17.49	35.06	133	351	A	V
		2486.42	67.84	-6.16	74	53.2	32.16	17.55	35.07	133	351	P	V
		2483.69	52.41	-1.59	54	37.77	32.16	17.55	35.07	133	351	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



WIFI Ant. 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 09 2452MHz	*	2452	109.28	-	-	94.77	32.08	17.49	35.06	314	137	P	H
	*	2452	101.86	-	-	87.35	32.08	17.49	35.06	314	137	A	H
		2483.5	66.68	-7.32	74	52.04	32.16	17.55	35.07	314	137	P	H
		2483.56	51.96	-2.04	54	37.32	32.16	17.55	35.07	314	137	A	H
													H
													H
	*	2452	109.78	-	-	95.27	32.08	17.49	35.06	131	351	P	V
	*	2452	102.32	-	-	87.81	32.08	17.49	35.06	131	351	A	V
		2484.1	66.44	-7.56	74	51.8	32.16	17.55	35.07	131	351	P	V
		2483.56	52.52	-1.48	54	37.88	32.16	17.55	35.07	131	351	A	V
													V
													V
802.11n HT20 CH 10 2457MHz	*	2457	108.68	-	-	94.13	32.12	17.49	35.06	311	137	P	H
	*	2457	101.02	-	-	86.47	32.12	17.49	35.06	311	137	A	H
		2483.56	67.42	-6.58	74	52.78	32.16	17.55	35.07	311	137	P	H
		2483.64	53.02	-0.98	54	38.38	32.16	17.55	35.07	311	137	A	H
													H
													H
	*	2457	108.19	-	-	93.64	32.12	17.49	35.06	119	350	P	V
	*	2457	100.65	-	-	86.1	32.12	17.49	35.06	119	350	A	V
		2484.4	65.65	-8.35	74	51.01	32.16	17.55	35.07	119	350	P	V
		2483.52	51.6	-2.4	54	36.96	32.16	17.55	35.07	119	350	A	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



WIFI Ant. 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 11 2462MHz	*	2462	106.09	-	-	91.48	32.12	17.55	35.06	394	150	P	H
	*	2462	98.49	-	-	83.88	32.12	17.55	35.06	394	150	A	H
		2483.56	64.84	-9.16	74	50.2	32.16	17.55	35.07	394	150	P	H
		2483.52	53.23	-0.77	54	38.59	32.16	17.55	35.07	394	150	A	H
													H
													H
	*	2462	106.49	-	-	91.88	32.12	17.55	35.06	123	352	P	V
	*	2462	98.93	-	-	84.32	32.12	17.55	35.06	123	352	A	V
		2484.52	64.22	-9.78	74	49.58	32.16	17.55	35.07	123	352	P	V
		2483.52	52.69	-1.31	54	38.05	32.16	17.55	35.07	123	352	A	V
													V
													V
802.11n HT20 CH 12 2467MHz	*	2467	104.11	-	-	89.51	32.12	17.55	35.07	394	149	P	H
	*	2467	96.5	-	-	81.9	32.12	17.55	35.07	394	149	A	H
		2483.72	69.41	-4.59	74	54.77	32.16	17.55	35.07	394	149	P	H
		2483.52	51.81	-2.19	54	37.17	32.16	17.55	35.07	394	149	A	H
													H
													H
	*	2467	104.49	-	-	89.89	32.12	17.55	35.07	123	347	P	V
	*	2467	97.17	-	-	82.57	32.12	17.55	35.07	123	347	A	V
		2483.56	68.88	-5.12	74	54.24	32.16	17.55	35.07	123	347	P	V
		2483.52	51.3	-2.7	54	36.66	32.16	17.55	35.07	123	347	A	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



WIFI Ant. 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 13 2472MHz	*	2472	102.83	-	-	88.19	32.16	17.55	35.07	395	149	P	H
	*	2472	95.14	-	-	80.5	32.16	17.55	35.07	395	149	A	H
		2483.56	71.09	-2.91	74	56.45	32.16	17.55	35.07	395	149	P	H
		2483.52	51.79	-2.21	54	37.15	32.16	17.55	35.07	395	149	A	H
													H
													H
	*	2472	102.99	-	-	88.35	32.16	17.55	35.07	106	352	P	V
	*	2472	95.56	-	-	80.92	32.16	17.55	35.07	106	352	A	V
		2483.6	71.71	-2.29	74	57.07	32.16	17.55	35.07	106	352	P	V
		2483.68	52.02	-1.98	54	37.38	32.16	17.55	35.07	106	352	A	V
													V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



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

WIFI Ant. 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	42.94	-31.06	74	56.93	34.23	11.12	59.34	100	0	P	H
													H
													H
													H
		4824	44.32	-29.68	74	58.31	34.23	11.12	59.34	100	0	P	V
													V
													V
													V
802.11n HT20 CH 06 2437MHz		4874	49	-25	74	62.86	34.22	11.16	59.24	100	0	P	H
		7311	60.78	-13.22	74	69.59	35.71	13.61	58.13	208	100	P	H
		7311	49.39	-4.61	54	58.2	35.71	13.61	58.13	208	100	A	H
													H
		4874	50.9	-23.1	74	64.76	34.22	11.16	59.24	255	150	P	V
		4874	41.06	-12.94	54	54.92	34.22	11.16	59.24	255	150	A	V
		7311	58.58	-15.42	74	67.39	35.71	13.61	58.13	232	314	P	V
		7311	47.51	-6.49	54	56.32	35.71	13.61	58.13	232	314	A	V
802.11n HT20 CH 11 2462MHz		4924	42.03	-31.97	74	55.74	34.21	11.22	59.14	100	0	P	H
		7386	45.36	-28.64	74	54.27	35.66	13.69	58.26	100	0	P	H
													H
													H
		4924	43.43	-30.57	74	57.14	34.21	11.22	59.14	100	0	P	V
		7386	46.33	-27.67	74	55.24	35.66	13.69	58.26	100	0	P	V
													V
													V
Remark	3. No other spurious found. 4. All results are PASS against Peak and Average limit line.												



WIFI Ant. 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		4934	42.54	-31.46	74	56.26	34.21	11.21	59.14	100	0	P	H
		7401	44.14	-29.86	74	53.08	35.65	13.69	58.28	100	0	P	H
													H
													H
		4934	42.31	-31.69	74	56.03	34.21	11.21	59.14	100	0	P	V
		7401	42.67	-31.33	74	51.61	35.65	13.69	58.28	100	0	P	V
													V
													V
802.11n HT20 CH 13 2472MHz		4944	42.58	-31.42	74	56.21	34.21	11.26	59.1	100	0	P	H
		7416	42.88	-31.12	74	51.83	35.65	13.68	58.28	100	0	P	H
													H
													H
		4944	42.02	-31.98	74	55.65	34.21	11.26	59.1	100	0	P	V
		7416	43.41	-30.59	74	52.36	35.65	13.68	58.28	100	0	P	V
													V
													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 802.11b (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.
2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
2.4GHz 802.11b LF		48.9	30.24	-9.76	40	45.51	15.07	1.26	31.6	100	0	P	H
		205.77	32.84	-10.66	43.5	46.99	15.03	2.26	31.44	-	-	P	H
		277.86	31.53	-14.47	46	41.3	18.82	2.74	31.33	-	-	P	H
		416.2	31.54	-14.46	46	36.96	22.4	3.29	31.11	-	-	P	H
		624.1	30.27	-15.73	46	31.37	25.64	4.05	30.79	-	-	P	H
		860.7	32.85	-13.15	46	29.55	29.03	4.82	30.55	-	-	P	H
													H
													H
													H
													H
													H
													H
		138.54	18.53	-24.97	43.5	30.65	17.42	1.98	31.52	-	-	P	V
		207.93	27.89	-15.61	43.5	42.01	15.07	2.25	31.44	-	-	P	V
		288.12	19.22	-26.78	46	28.88	18.91	2.75	31.32	-	-	P	V
		416.2	25.87	-20.13	46	31.29	22.4	3.29	31.11	-	-	P	V
		624.1	31.88	-14.12	46	32.98	25.64	4.05	30.79	100	0	P	V
		972.7	32.75	-21.25	54	27.37	30.85	5.04	30.51	-	-	P	V
													V
													V
													V
													V
													V
													V
													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	Peak or Average
H/V	Horizontal or Vertical

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

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

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

For Peak Limit @ 2390MHz:

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

For Average Limit @ 2390MHz:

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

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



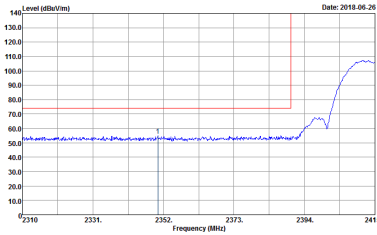
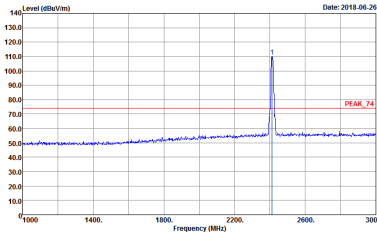
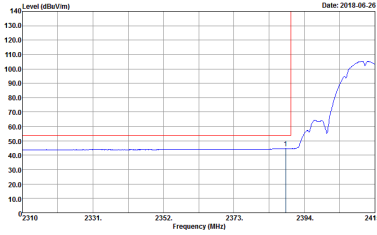
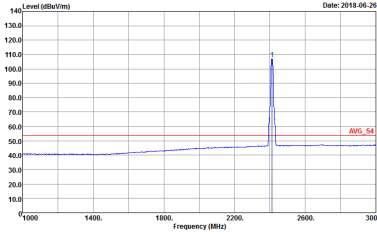
Appendix D. Radiated Spurious Emission Plots

Test Engineer :	Jesse Wang, Stan Hsieh, and Nick Yu	Temperature :	24~26°C
		Relative Humidity :	51~53%

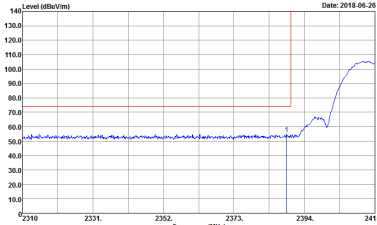
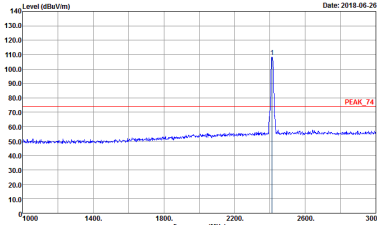
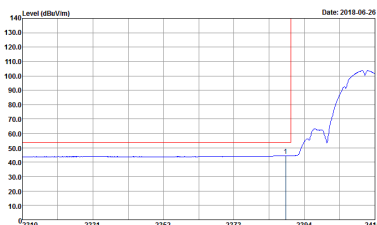
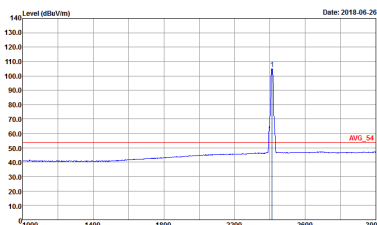
Note symbol

-L	Low channel location
-R	High channel location

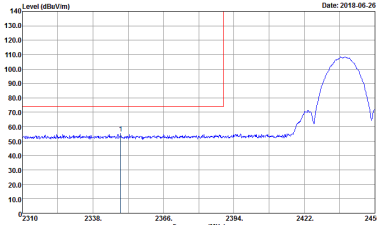
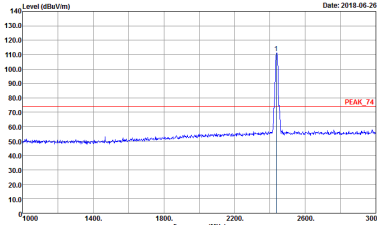
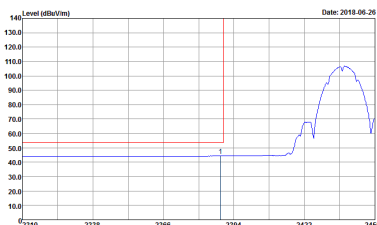
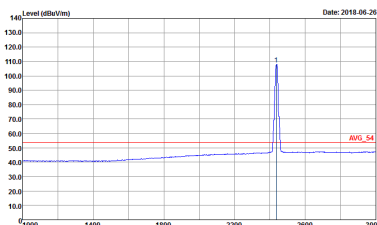
2.4GHz 2400~2483.5MHz
WIFI 802.11b (Band Edge @ 3m)

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH01 2412MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00075962 HORIZONTAL RBW:1000.000kHz VBW:3000.000kHz SMT:Auto Detector : Peak Project : 831509-01 Mode : 19	 Site : 03CH07-HY Condition : PEAK_74 3m HF_ANT_00075962 HORIZONTAL RBW:1000.000kHz VBW:3000.000kHz SMT:Auto Detector : Peak Project : 831509-01 Mode : 19
Avg.	 Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANT_00075962 HORIZONTAL RBW:1000.000kHz VBW:0.010kHz SMT:Auto Detector : Peak Project : 831509-01 Mode : 19	 Site : 03CH07-HY Condition : AVG_54 3m HF_ANT_00075962 HORIZONTAL RBW:1000.000kHz VBW:0.010kHz SMT:Auto Detector : Peak Project : 831509-01 Mode : 19

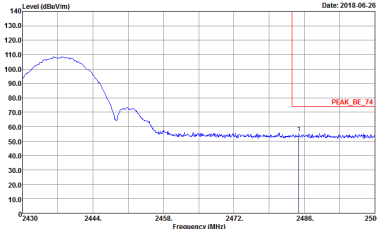
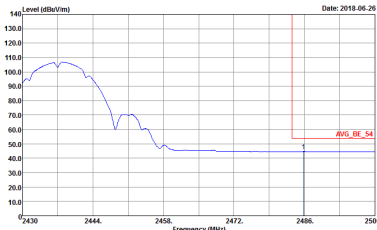


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH01 2412MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00075962 VERTICAL Detector : Peak Project : 831509-01 Mode : 19	 Site : 03CH07-HY Condition : PEAK_74 3m HF_ANT_00075962 VERTICAL Detector : Peak Project : 831509-01 Mode : 19
Avg.	 Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANT_00075962 VERTICAL Detector : Peak Project : 831509-01 Mode : 19	 Site : 03CH07-HY Condition : AVG_54 3m HF_ANT_00075962 VERTICAL Detector : Peak Project : 831509-01 Mode : 19

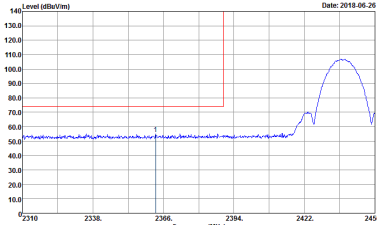
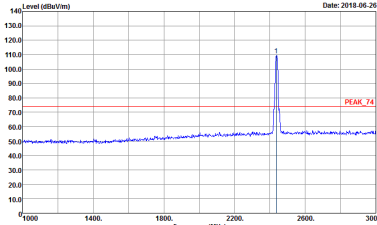
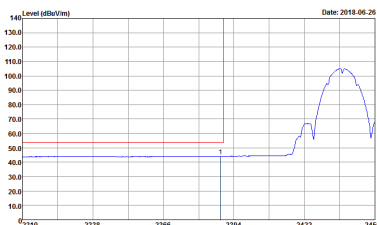
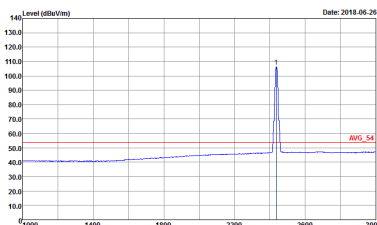


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH06 2437MHz - L	
1	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00075962 HORIZONTAL Detector : Peak Project : 831509-01 Mode : 20	 Site : 03CH07-HY Condition : PEAK_74 3m HF_ANT_00075962 HORIZONTAL Detector : Peak Project : 831509-01 Mode : 20
Avg.	 Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANT_00075962 HORIZONTAL Detector : Peak Project : 831509-01 Mode : 20	 Site : 03CH07-HY Condition : AVG_54 3m HF_ANT_00075962 HORIZONTAL Detector : Peak Project : 831509-01 Mode : 20

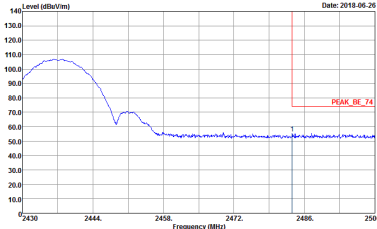
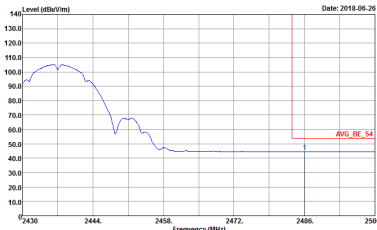


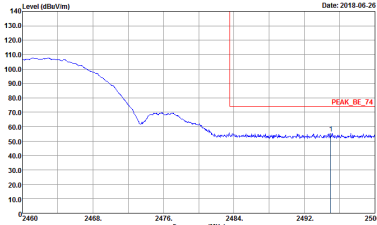
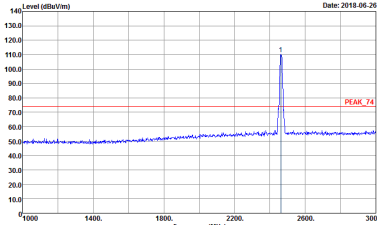
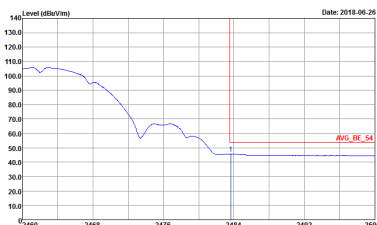
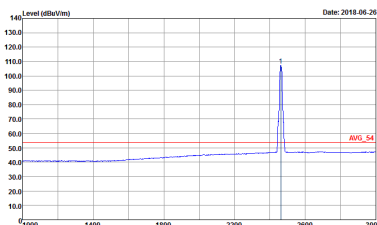
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH06 2437MHz - R	
1	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00075962 HORIZONTAL Detector : Peak Project : 831509-01 Mode : 20	Left blank
Avg.	 Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANT_00075962 HORIZONTAL Detector : Peak Project : 831509-01 Mode : 20	Left blank



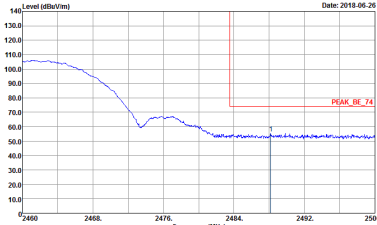
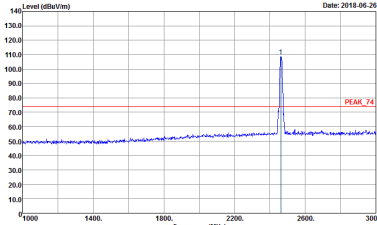
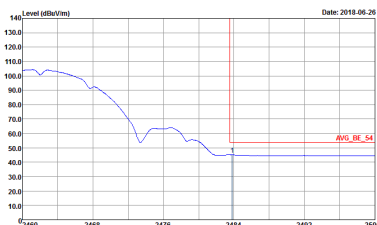
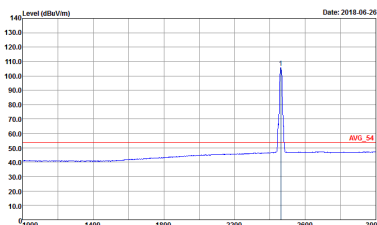
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH06 2437MHz - L	
1	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00075962 VERTICAL Detector : Peak Project : 831509-01 Mode : 20	 Site : 03CH07-HY Condition : PEAK_74 3m HF_ANT_00075962 VERTICAL Detector : Peak Project : 831509-01 Mode : 20
Avg.	 Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANT_00075962 VERTICAL Detector : Peak Project : 831509-01 Mode : 20	 Site : 03CH07-HY Condition : AVG_54 3m HF_ANT_00075962 VERTICAL Detector : Peak Project : 831509-01 Mode : 20



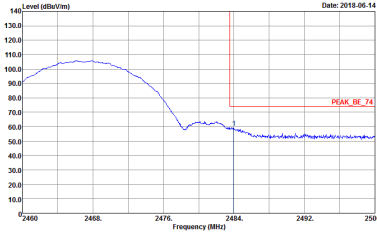
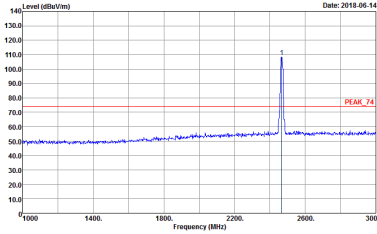
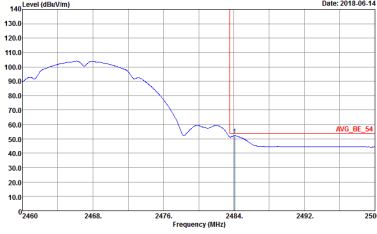
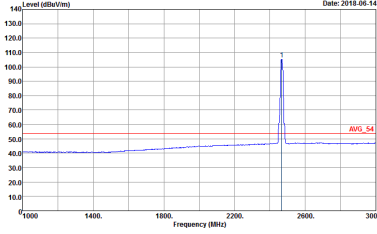
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH06 2437MHz - R	
1	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00075962 VERTICAL Detector : Peak Project : 831509-01 Mode : 20	Left blank
Avg.	 Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANT_00075962 VERTICAL Detector : Peak Project : 831509-01 Mode : 20	Left blank

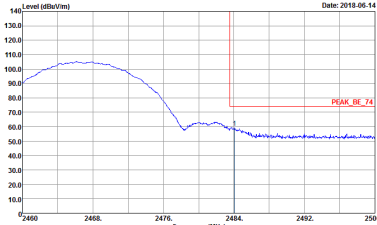
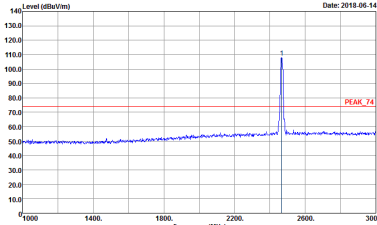
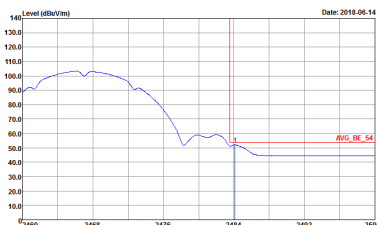
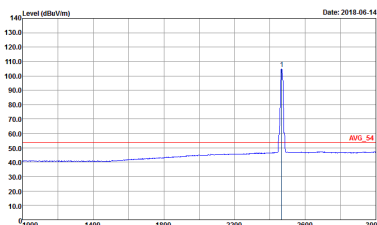
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH11 2462MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00075962 HORIZONTAL Detector : Peak Project : 831509-01 Mode : 21	 Site : 03CH07-HY Condition : PEAK_74 3m HF_ANT_00075962 HORIZONTAL Detector : Peak Project : 831509-01 Mode : 21
	 Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANT_00075962 HORIZONTAL Detector : Peak Project : 831509-01 Mode : 21	 Site : 03CH07-HY Condition : AVG_54 3m HF_ANT_00075962 HORIZONTAL Detector : Peak Project : 831509-01 Mode : 21



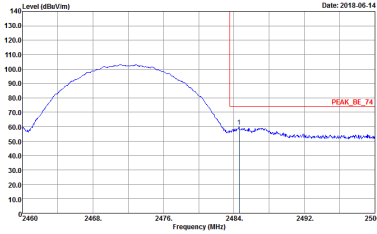
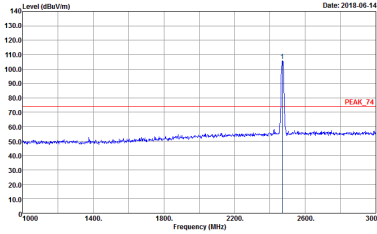
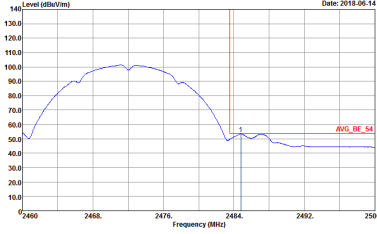
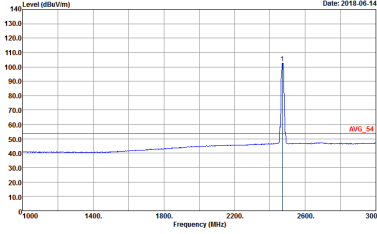
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH11 2462MHz	
1	Vertical	Fundamental
Peak	 Level (dBuV/m) vs Frequency (MHz) plot showing a peak at 2462 MHz. The y-axis ranges from 10.0 to 140.0 dBuV/m, and the x-axis ranges from 2460 to 2500 MHz. A red line indicates the peak level at approximately 74 dBuV/m. Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00075962 VERTICAL Detector : RBW:1000.000kHz VBW:3000.000kHz SMT:Auto Project : Peak Mode : 831509-01 Date : 2018-06-26	 Level (dBuV/m) vs Frequency (MHz) plot showing a peak at 2462 MHz. The y-axis ranges from 10.0 to 140.0 dBuV/m, and the x-axis ranges from 1000 to 3000 MHz. A red line indicates the peak level at approximately 74 dBuV/m. Site : 03CH07-HY Condition : PEAK_74 3m HF_ANT_00075962 VERTICAL Detector : RBW:1000.000kHz VBW:3000.000kHz SMT:Auto Project : Peak Mode : 831509-01 Date : 2018-06-26
	 Level (dBuV/m) vs Frequency (MHz) plot showing the average level. The y-axis ranges from 10.0 to 140.0 dBuV/m, and the x-axis ranges from 2460 to 2500 MHz. A red line indicates the average level at approximately 54 dBuV/m. Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANT_00075962 VERTICAL Detector : RBW:1000.000kHz VBW:0.010kHz SMT:Auto Project : Peak Mode : 831509-01 Date : 2018-06-26	 Level (dBuV/m) vs Frequency (MHz) plot showing the average level. The y-axis ranges from 10.0 to 140.0 dBuV/m, and the x-axis ranges from 1000 to 3000 MHz. A red line indicates the average level at approximately 54 dBuV/m. Site : 03CH07-HY Condition : AVG_54 3m HF_ANT_00075962 VERTICAL Detector : RBW:1000.000kHz VBW:0.010kHz SMT:Auto Project : Peak Mode : 831509-01 Date : 2018-06-26
Avg.		



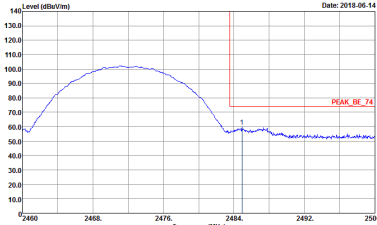
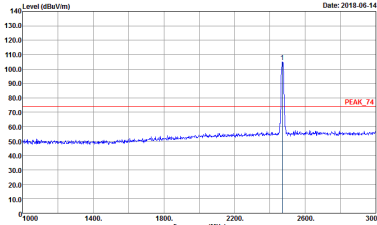
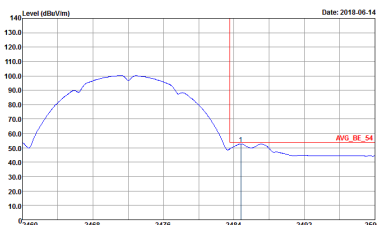
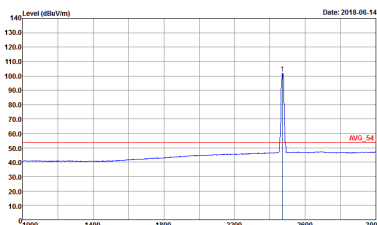
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH12 2467MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH07-4Y Condition : PEAK_BE_74 3m HF_ANT_00075962 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 831509-01 Mode : 22	 Site : 03CH07-4Y Condition : PEAK_74 3m HF_ANT_00075962 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 831509-01 Mode : 22
Avg.	 Site : 03CH07-4Y Condition : AVG_BE_54 3m HF_ANT_00075962 HORIZONTAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 831509-01 Mode : 22	 Site : 03CH07-4Y Condition : AVG_54 3m HF_ANT_00075962 HORIZONTAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 831509-01 Mode : 22

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH12 2467MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH07-4Y Condition : PEAK_BE_74 3m HF_ANT_00075962 VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 831509-01 : 22	 Site : 03CH07-4Y Condition : PEAK_74 3m HF_ANT_00075962 VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 831509-01 : 22
Avg.	 Site : 03CH07-4Y Condition : AVG_BE_54 3m HF_ANT_00075962 VERTICAL Detector : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Project : Peak Mode : 831509-01 : 22	 Site : 03CH07-4Y Condition : AVG_54 3m HF_ANT_00075962 VERTICAL Detector : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Project : Peak Mode : 831509-01 : 22

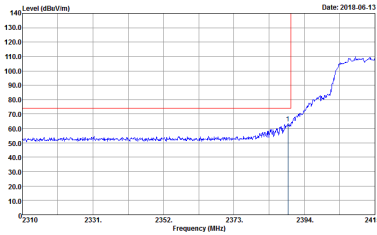
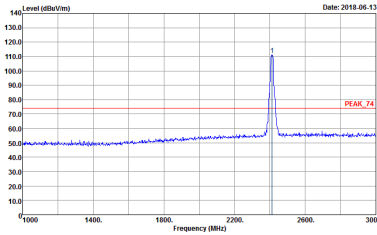
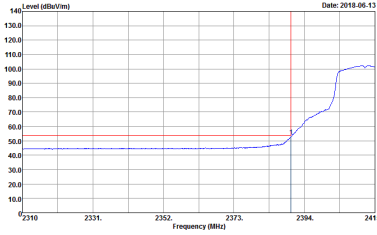
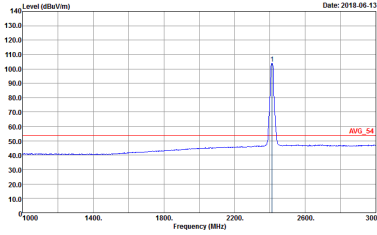


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH13 2472MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH07-4Y Condition : PEAK_BE_74 3m HF_ANT_00075962 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 831509-01 Mode : 23	 Site : 03CH07-4Y Condition : PEAK_74 3m HF_ANT_00075962 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 831509-01 Mode : 23
Avg.	 Site : 03CH07-4Y Condition : AVG_BE_54 3m HF_ANT_00075962 HORIZONTAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 831509-01 Mode : 23	 Site : 03CH07-4Y Condition : AVG_54 3m HF_ANT_00075962 HORIZONTAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 831509-01 Mode : 23

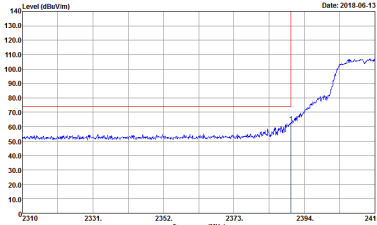
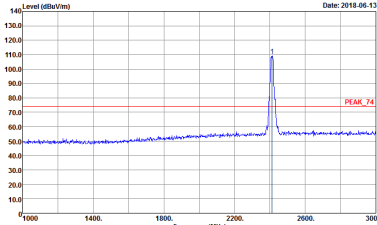
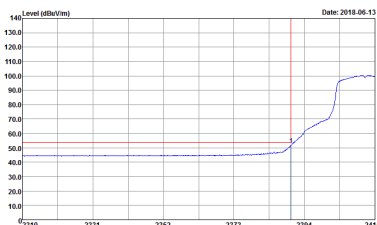
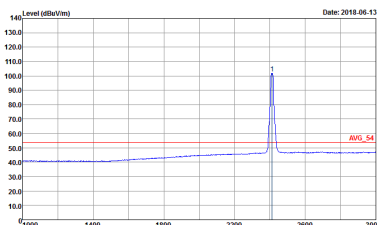


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH13 2472MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH07-4Y Condition : PEAK_BE_74 3m HF_ANT_00075962 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 831509-01 Mode : 23	 Site : 03CH07-4Y Condition : PEAK_74 3m HF_ANT_00075962 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 831509-01 Mode : 23
Avg.	 Site : 03CH07-4Y Condition : AVG_BE_54 3m HF_ANT_00075962 VERTICAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 831509-01 Mode : 23	 Site : 03CH07-4Y Condition : AVG_54 3m HF_ANT_00075962 VERTICAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 831509-01 Mode : 23

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

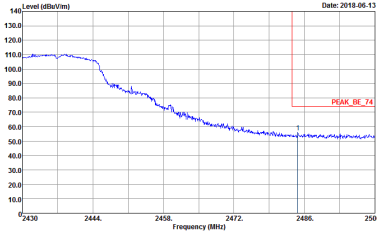
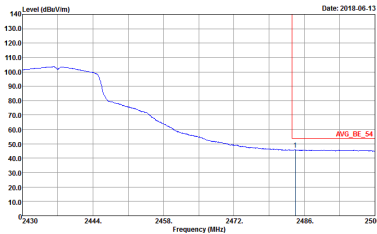
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH01 2412MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00075962 HORIZONTAL RBW:1000.000kHz VBW:3000.000kHz SMT:Auto Detector : Peak Project : 831509-01 Mode : 24	 Site : 03CH07-HY Condition : PEAK_74 3m HF_ANT_00075962 HORIZONTAL RBW:1000.000kHz VBW:3000.000kHz SMT:Auto Detector : Peak Project : 831509-01 Mode : 24
	 Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANT_00075962 HORIZONTAL RBW:1000.000kHz VBW:1.000kHz SMT:Auto Detector : Peak Project : 831509-01 Mode : 24	 Site : 03CH07-HY Condition : AVG_54 3m HF_ANT_00075962 HORIZONTAL RBW:1000.000kHz VBW:1.000kHz SMT:Auto Detector : Peak Project : 831509-01 Mode : 24

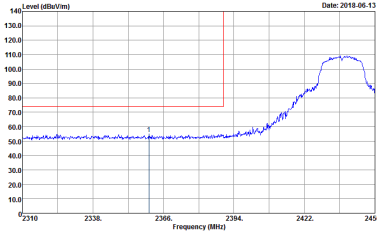
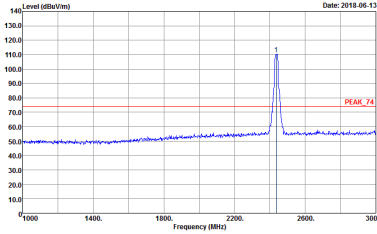
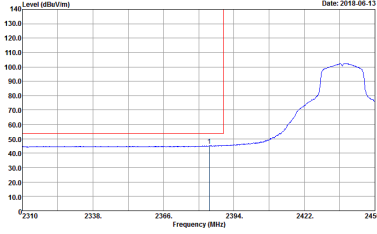
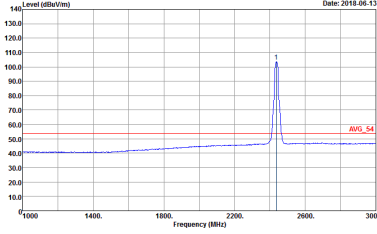


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH01 2412MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00075962 VERTICAL Detector : Peak Project : 831509-01 Mode : 24	 Site : 03CH07-HY Condition : PEAK_74 3m HF_ANT_00075962 VERTICAL Detector : Peak Project : 831509-01 Mode : 25
Avg.	 Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANT_00075962 VERTICAL Detector : Peak Project : 831509-01 Mode : 24	 Site : 03CH07-HY Condition : AVG_54 3m HF_ANT_00075962 VERTICAL Detector : Peak Project : 831509-01 Mode : 24

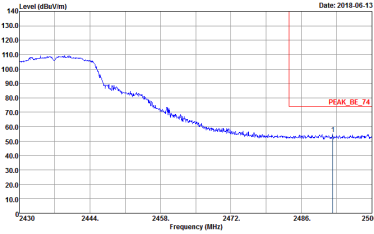
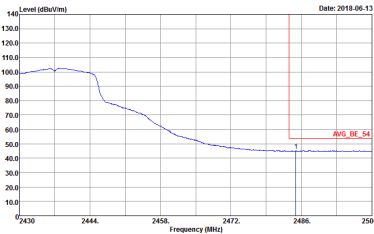


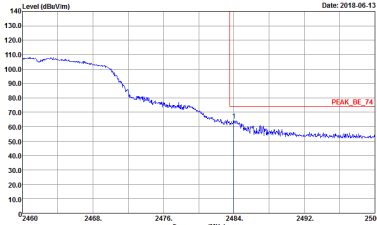
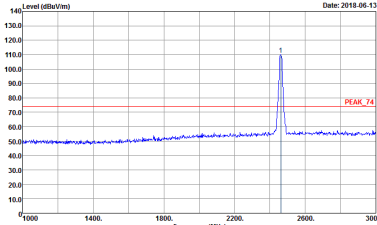
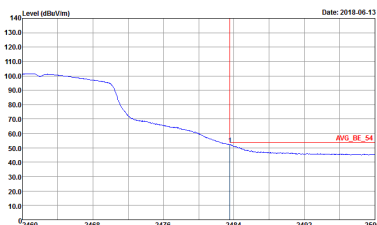
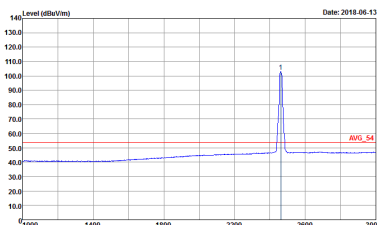
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH06 2437MHz - L	
1	Horizontal	Fundamental
Peak	Site : 03CH07-4Y Condition : PEAK_BE_74 3m HF_ANT_00075962 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 831509-01 Mode : 25	Site : 03CH07-4Y Condition : PEAK_74 3m HF_ANT_00075962 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 831509-01 Mode : 25
Avg.	Site : 03CH07-4Y Condition : AVG_BE_54 3m HF_ANT_00075962 HORIZONTAL RBW:1000.000KHz VBW:1000KHz SWT:Auto Detector : Peak Project : 831509-01 Mode : 25	Site : 03CH07-4Y Condition : AVG_54 3m HF_ANT_00075962 HORIZONTAL RBW:1000.000KHz VBW:1000KHz SWT:Auto Detector : Peak Project : 831509-01 Mode : 25

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH06 2437MHz - R	
1	Horizontal	Fundamental
Peak	 Site : 03CH07-4V Condition : PEAK_BE_74 3m HF_ANT_00075962 HORIZONTAL Detector : Peak Project : 831509-01 Mode : 25	Left blank
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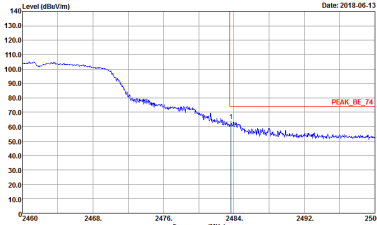
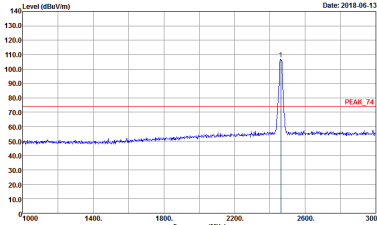
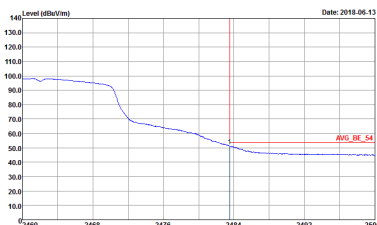
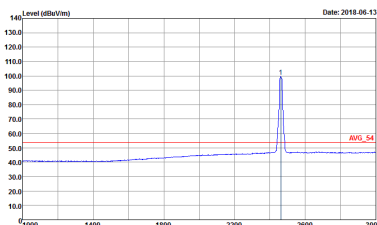
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH06 2437MHz - L	
1	Vertical	Fundamental
Peak	 Site : 03CH07-4Y Condition : PEAK_BE_74 3m HF_ANT_00075962 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 831509-01 Mode : 25	 Site : 03CH07-4Y Condition : PEAK_74 3m HF_ANT_00075962 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 831509-01 Mode : 25
	 Site : 03CH07-4Y Condition : AVG_BE_54 3m HF_ANT_00075962 VERTICAL RBW:1000.000KHz VBW:1000KHz SWT:Auto Detector : Peak Project : 831509-01 Mode : 25	 Site : 03CH07-4Y Condition : AVG_54 3m HF_ANT_00075962 VERTICAL RBW:1000.000KHz VBW:1000KHz SWT:Auto Detector : Peak Project : 831509-01 Mode : 25
Avg.		

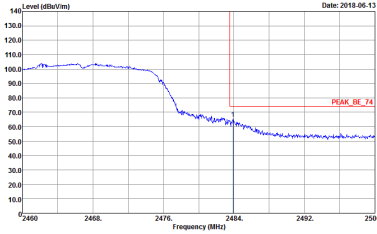
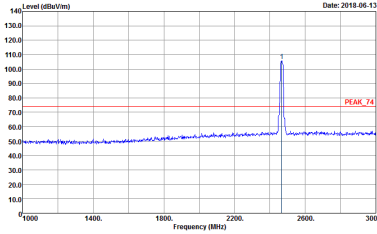
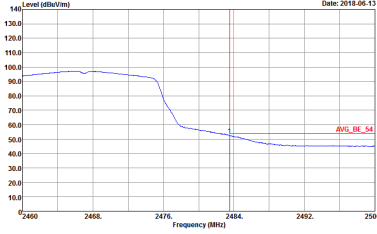
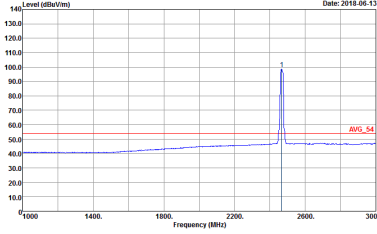


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH06 2437MHz - R	
1	Vertical	Fundamental
Peak	 Site : 03CH07-4HY Condition : PEAK_BE_74 3m HF_ANT_00075962 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 831509-01 Mode : 25	Left Blank
Avg.	 Site : 03CH07-4HY Condition : AVG_BE_54 3m HF_ANT_00075962 VERTICAL RBW:1000.000KHz VBW:1000KHz SWT:Auto Detector : Peak Project : 831509-01 Mode : 25	Left Blank

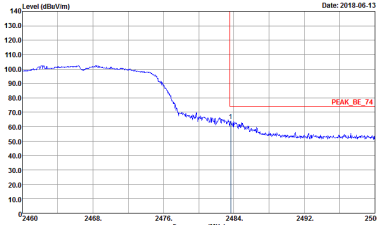
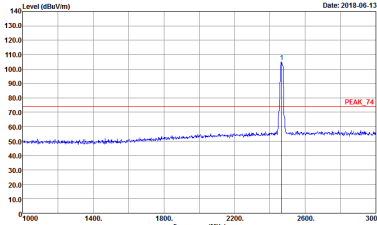
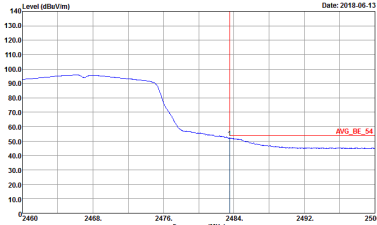
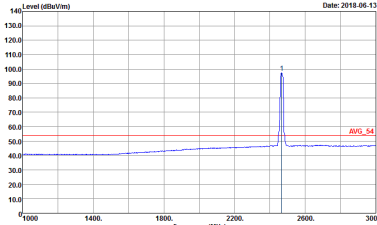
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH11 2462MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH07-4Y Condition : PEAK_BE_74 3m HF_ANT_00075962 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 831509-01 Mode : 26	 Site : 03CH07-4Y Condition : PEAK_74 3m HF_ANT_00075962 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 831509-01 Mode : 26
	 Site : 03CH07-4Y Condition : AVG_BE_54 3m HF_ANT_00075962 HORIZONTAL RBW:1000.000KHz VBW:1000KHz SWT:Auto Detector : Peak Project : 831509-01 Mode : 26	 Site : 03CH07-4Y Condition : AVG_54 3m HF_ANT_00075962 HORIZONTAL RBW:1000.000KHz VBW:1000KHz SWT:Auto Detector : Peak Project : 831509-01 Mode : 26

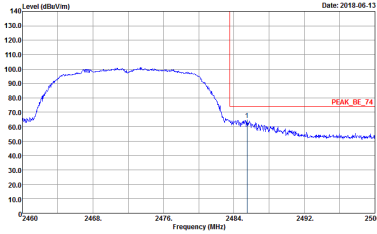
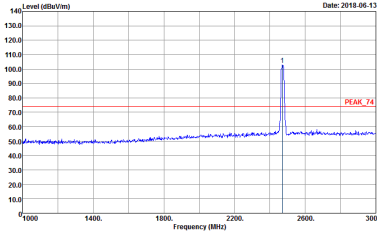
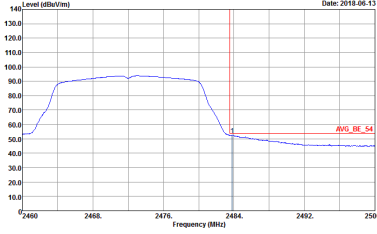
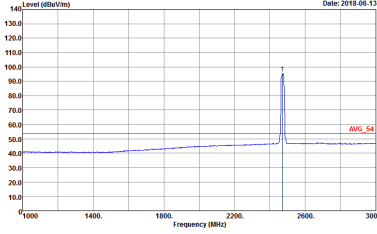


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH11 2462MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH07-4Y Condition : PEAK_BE_74 3m HF_ANT_00075962 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 831509-01 Mode : 26	 Site : 03CH07-4Y Condition : PEAK_74 3m HF_ANT_00075962 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 831509-01 Mode : 26
Avg.	 Site : 03CH07-4Y Condition : AVG_BE_54 3m HF_ANT_00075962 VERTICAL RBW:1000.000KHz VBW:1000KHz SWT:Auto Detector : Peak Project : 831509-01 Mode : 26	 Site : 03CH07-4Y Condition : AVG_54 3m HF_ANT_00075962 VERTICAL RBW:1000.000KHz VBW:1000KHz SWT:Auto Detector : Peak Project : 831509-01 Mode : 26

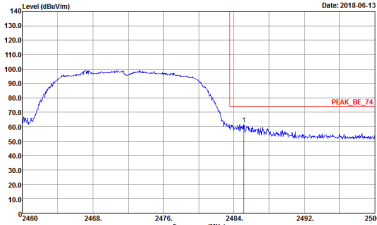
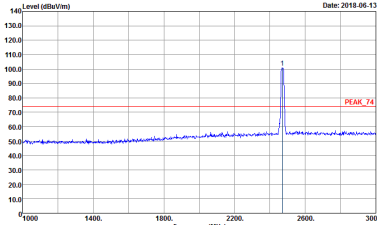
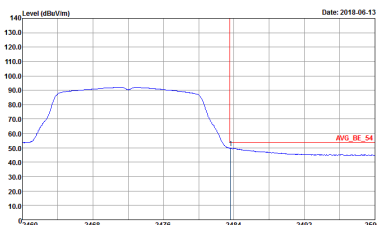
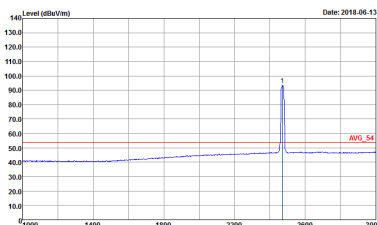
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH12 2467MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH07-4Y Condition : PEAK_BE_74 3m HF_ANT_00075962 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 831509-01 Mode : 27	 Site : 03CH07-4Y Condition : PEAK_74 3m HF_ANT_00075962 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 831509-01 Mode : 27
	 Site : 03CH07-4Y Condition : AVG_BE_54 3m HF_ANT_00075962 HORIZONTAL RBW:1000.000KHz VBW:1000KHz SWT:Auto Detector : Peak Project : 831509-01 Mode : 27	 Site : 03CH07-4Y Condition : AVG_54 3m HF_ANT_00075962 HORIZONTAL RBW:1000.000KHz VBW:1000KHz SWT:Auto Detector : Peak Project : 831509-01 Mode : 27



WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH12 2467MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH07-4Y Condition : PEAK_BE_74 3m HF_ANT_00075962 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 831509-01 Mode : 27	 Site : 03CH07-4Y Condition : PEAK_74 3m HF_ANT_00075962 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 831509-01 Mode : 27
Avg.	 Site : 03CH07-4Y Condition : AVG_BE_54 3m HF_ANT_00075962 VERTICAL RBW:1000.000KHz VBW:1000KHz SWT:Auto Detector : Peak Project : 831509-01 Mode : 27	 Site : 03CH07-4Y Condition : AVG_54 3m HF_ANT_00075962 VERTICAL RBW:1000.000KHz VBW:1000KHz SWT:Auto Detector : Peak Project : 831509-01 Mode : 27

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH13 2472MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH07-4Y Condition : PEAK_BE_74 3m HF_ANT_00075962 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 831509-01 Mode : 28	 Site : 03CH07-4Y Condition : PEAK_74 3m HF_ANT_00075962 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 831509-01 Mode : 28
Avg.	 Site : 03CH07-4Y Condition : AVG_BE_54 3m HF_ANT_00075962 HORIZONTAL RBW:1000.000KHz VBW:1000KHz SWT:Auto Detector : Peak Project : 831509-01 Mode : 28	 Site : 03CH07-4Y Condition : AVG_54 3m HF_ANT_00075962 HORIZONTAL RBW:1000.000KHz VBW:1000KHz SWT:Auto Detector : Peak Project : 831509-01 Mode : 28

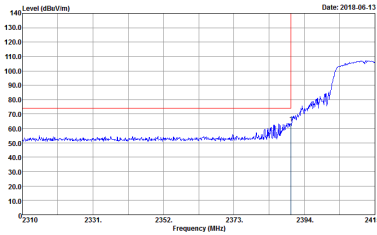
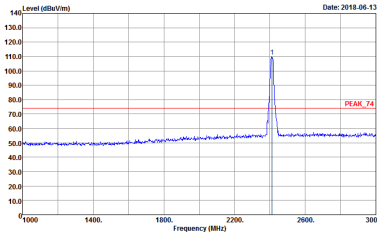
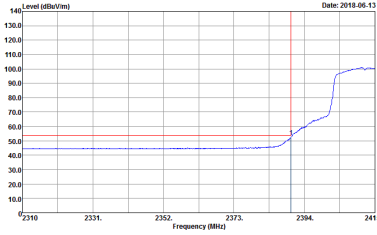
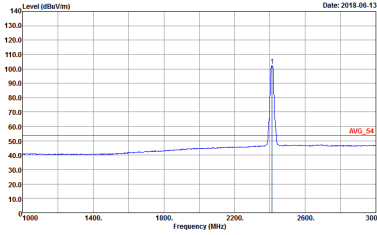


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH13 2472MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH07-4Y Condition : PEAK_BE_74 3m HF_ANT_00075962 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 831509-01 Mode : 28	 Site : 03CH07-4Y Condition : PEAK_74 3m HF_ANT_00075962 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 831509-01 Mode : 28
Avg.	 Site : 03CH07-4Y Condition : AVG_BE_54 3m HF_ANT_00075962 VERTICAL RBW:1000.000KHz VBW:1000KHz SWT:Auto Detector : Peak Project : 831509-01 Mode : 28	 Site : 03CH07-4Y Condition : AVG_54 3m HF_ANT_00075962 VERTICAL RBW:1000.000KHz VBW:1000KHz SWT:Auto Detector : Peak Project : 831509-01 Mode : 28

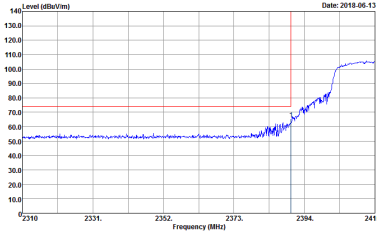
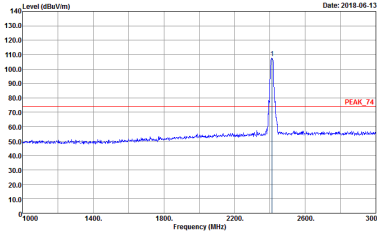
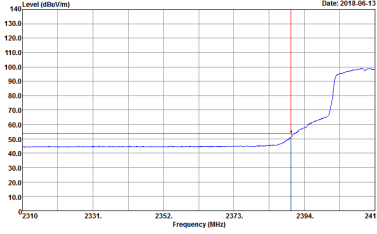
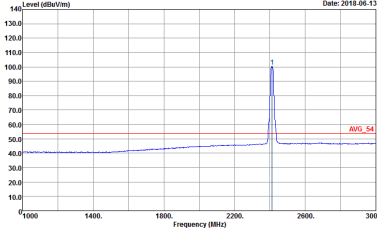


2.4GHz 2400~2483.5MHz

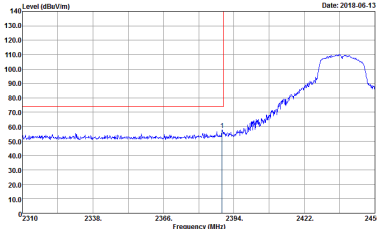
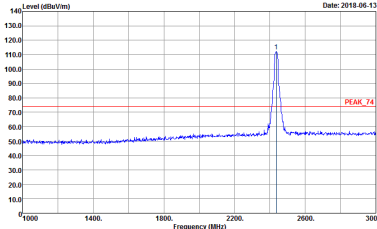
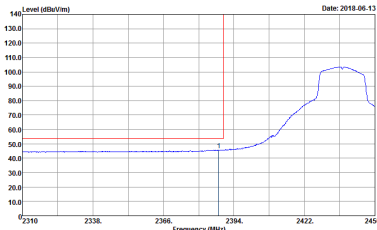
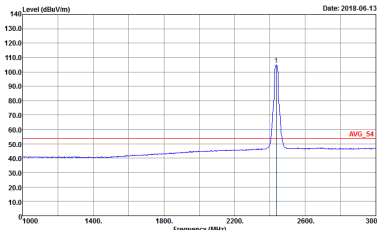
WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH01 2412MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00075962 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 831509-01 Mode : 29	 Site : 03CH07-HY Condition : PEAK_74 3m HF_ANT_00075962 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 831509-01 Mode : 29
Avg.	 Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANT_00075962 HORIZONTAL Detector : RBW:1000.000KHz VBW:1000KHz SWT:Auto Detector : Peak Project : 831509-01 Mode : 29	 Site : 03CH07-HY Condition : AVG_54 3m HF_ANT_00075962 HORIZONTAL Detector : RBW:1000.000KHz VBW:1000KHz SWT:Auto Detector : Peak Project : 831509-01 Mode : 29

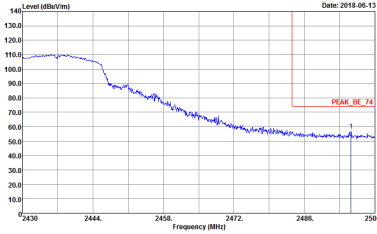
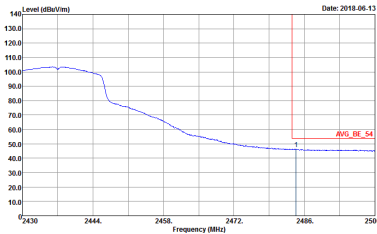


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH01 2412MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH07-4Y Condition : PEAK_BE_74 3m HF_ANT_00075962 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 831509-01 Mode : 29	 Site : 03CH07-4Y Condition : PEAK_74 3m HF_ANT_00075962 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 831509-01 Mode : 29
Avg.	 Site : 03CH07-4Y Condition : AVG_BE_54 3m HF_ANT_00075962 VERTICAL RBW:1000.000KHz VBW:1000KHz SWT:Auto Detector : Peak Project : 831509-01 Mode : 29	 Site : 03CH07-4Y Condition : AVG_54 3m HF_ANT_00075962 VERTICAL RBW:1000.000KHz VBW:1000KHz SWT:Auto Detector : Peak Project : 831509-01 Mode : 29



WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH06 2437MHz - L	
1	Horizontal	Fundamental
Peak	 Site : 03CH07-4Y Condition : PEAK_BE_74 3m HF_ANT_00075962 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 831509-01 Mode : 30	 Site : 03CH07-4Y Condition : PEAK_74 3m HF_ANT_00075962 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 831509-01 Mode : 30
Avg.	 Site : 03CH07-4Y Condition : AVG_BE_54 3m HF_ANT_00075962 HORIZONTAL RBW:1000.000KHz VBW:1000KHz SWT:Auto Detector : Peak Project : 831509-01 Mode : 30	 Site : 03CH07-4Y Condition : AVG_54 3m HF_ANT_00075962 HORIZONTAL RBW:1000.000KHz VBW:1000KHz SWT:Auto Detector : Peak Project : 831509-01 Mode : 30

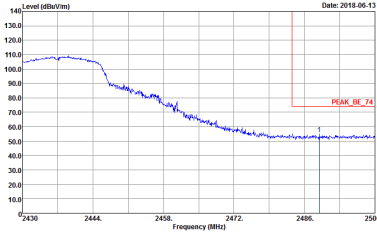
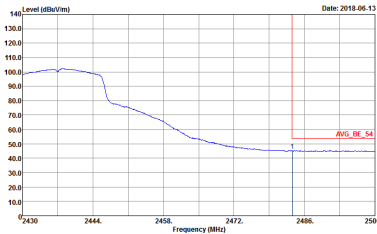


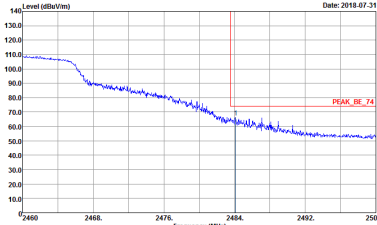
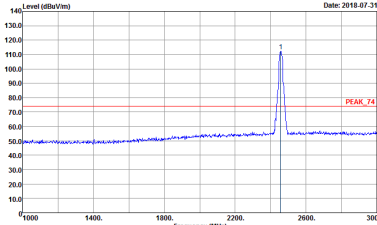
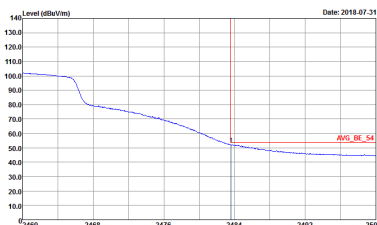
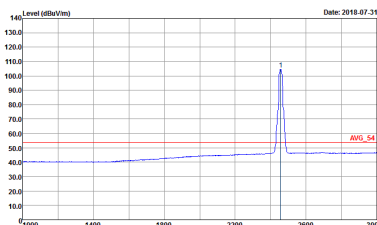
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH06 2437MHz - R	
1	Horizontal	Fundamental
Peak	 Site : 03CH07-4V Condition : PEAK_BE_74 3m HF_ANT_00075962 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 831509-01 Mode : 30	Left blank
Avg.	 Site : 03CH07-4V Condition : AVG_BE_54 3m HF_ANT_00075962 HORIZONTAL RBW:1000.000KHz VBW:1000KHz SWT:Auto Detector : Peak Project : 831509-01 Mode : 30	Left blank

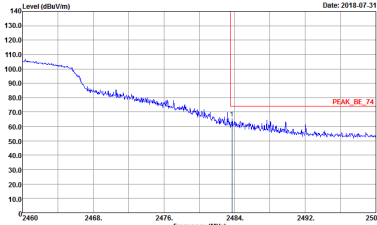
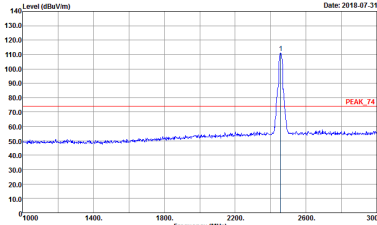
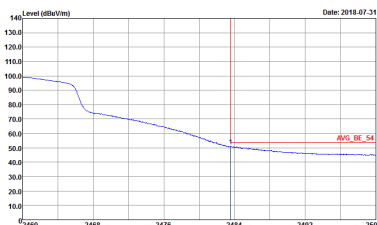
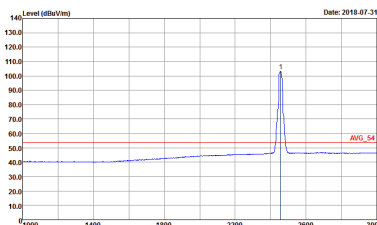


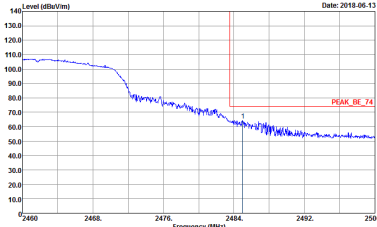
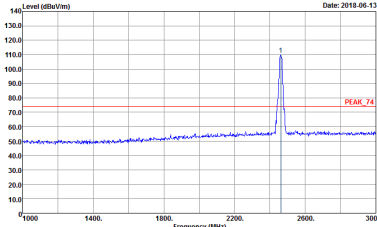
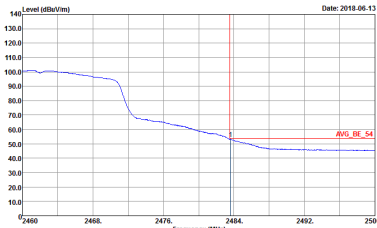
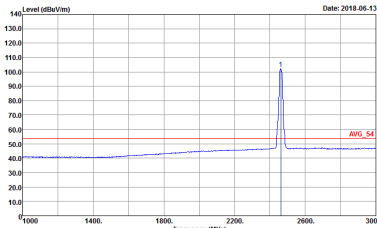
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH06 2437MHz - L	
1	Vertical	Fundamental
Peak	Site : 03CH07-4Y Condition : PEAK_BE_74 3m HF_ANT_00075962 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 831509-01 Mode : 30	Site : 03CH07-4Y Condition : PEAK_74 3m HF_ANT_00075962 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 831509-01 Mode : 30
Avg.	Site : 03CH07-4Y Condition : AVG_BE_54 3m HF_ANT_00075962 VERTICAL RBW:1000.000KHz VBW:1000KHz SWT:Auto Detector : Peak Project : 831509-01 Mode : 30	Site : 03CH07-4Y Condition : AVG_54 3m HF_ANT_00075962 VERTICAL RBW:1000.000KHz VBW:1000KHz SWT:Auto Detector : Peak Project : 831509-01 Mode : 30

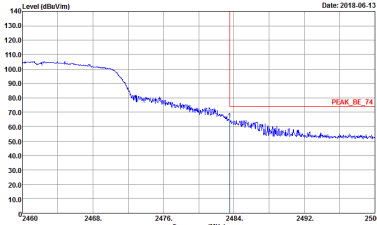
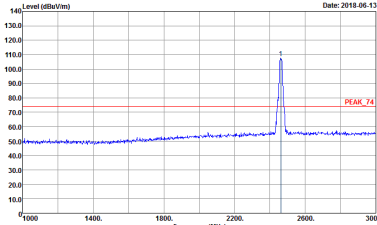
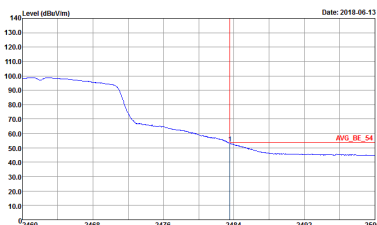
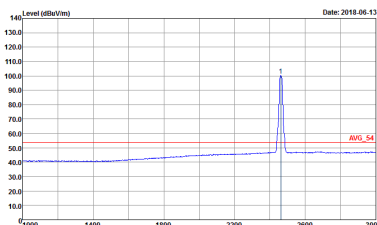


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH06 2437MHz - R	
1	Vertical	Fundamental
Peak	 Site : 03CH07-4HY Condition : PEAK_BE_74 3m HF_ANT_00075962 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 831509-01 Mode : 30	Left Blank
Avg.	 Site : 03CH07-4HY Condition : AVG_BE_54 3m HF_ANT_00075962 VERTICAL RBW:1000.000KHz VBW:1000KHz SWT:Auto Detector : Peak Project : 831509-01 Mode : 30	Left Blank

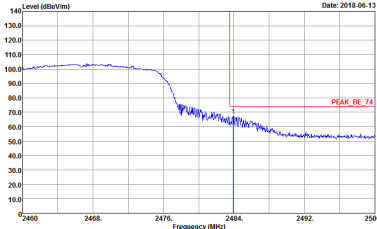
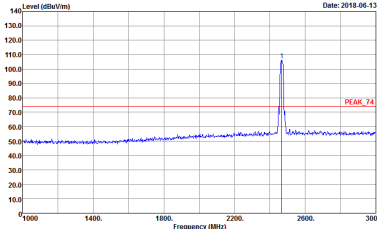
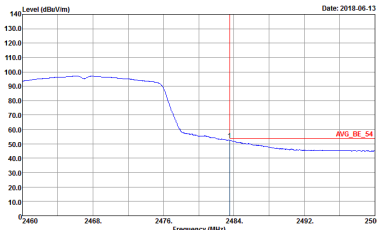
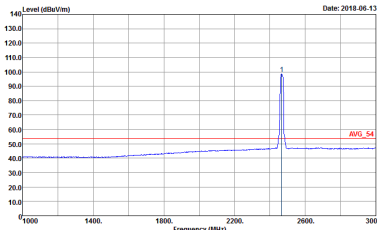
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH10 2457MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00075962 HORIZONTAL Detector : RBW:1000.000kHz VBW:3000.000kHz SMT:Auto Project : Peak Mode : 831509-01 Date: 2018-07-31	 Site : 03CH07-HY Condition : PEAK_74 3m HF_ANT_00075962 HORIZONTAL Detector : RBW:1000.000kHz VBW:3000.000kHz SMT:Auto Project : Peak Mode : 831509-01 Date: 2018-07-31
	 Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANT_00075962 HORIZONTAL Detector : RBW:1000.000kHz VBW:1.000kHz SMT:Auto Project : Peak Mode : 831509-01 Date: 2018-07-31	 Site : 03CH07-HY Condition : AVG_54 3m HF_ANT_00075962 HORIZONTAL Detector : RBW:1000.000kHz VBW:1.000kHz SMT:Auto Project : Peak Mode : 831509-01 Date: 2018-07-31

WIFI	2.4GHz 2400~2483.5MHz Fundamental @ 3m	
ANT	802.11n HT20 CH10 2457MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00075962 VERTICAL Detector : RBW:1000.000kHz VBW:3000.000kHz SMT:Auto Project : Peak Mode : 831509-01 Date: 2018-07-31	 Site : 03CH07-HY Condition : PEAK_74 3m HF_ANT_00075962 VERTICAL Detector : RBW:1000.000kHz VBW:3000.000kHz SMT:Auto Project : Peak Mode : 831509-01 Date: 2018-07-31
	 Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANT_00075962 VERTICAL Detector : RBW:1000.000kHz VBW:1.000kHz SMT:Auto Project : Peak Mode : 831509-01 Date: 2018-07-31	 Site : 03CH07-HY Condition : AVG_54 3m HF_ANT_00075962 VERTICAL Detector : RBW:1000.000kHz VBW:1.000kHz SMT:Auto Project : Peak Mode : 831509-01 Date: 2018-07-31

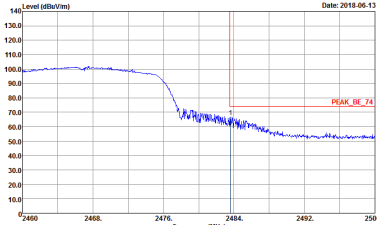
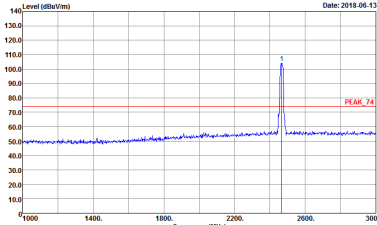
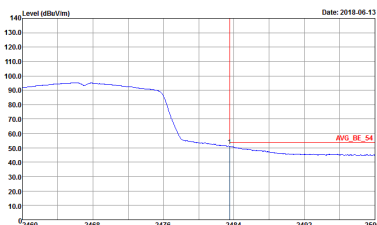
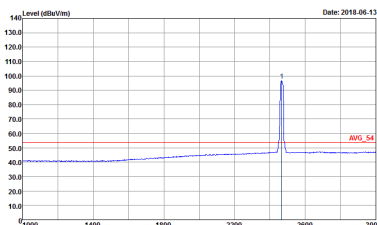
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH11 2462MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH07-4Y Condition : PEAK_BE_74 3m HF_ANT_00075962 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 831509-01 : 31	 Site : 03CH07-4Y Condition : PEAK_74 3m HF_ANT_00075962 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 831509-01 : 31
Avg.	 Site : 03CH07-4Y Condition : AVG_BE_54 3m HF_ANT_00075962 HORIZONTAL Detector : RBW:1000.000KHz VBW:1000KHz SWT:Auto Project : Peak Mode : 831509-01 : 31	 Site : 03CH07-4Y Condition : AVG_54 3m HF_ANT_00075962 HORIZONTAL Detector : RBW:1000.000KHz VBW:1000KHz SWT:Auto Project : Peak Mode : 831509-01 : 31

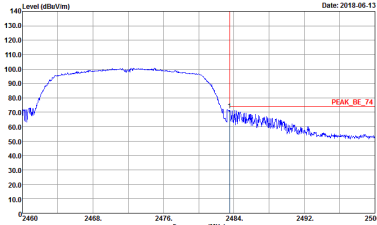
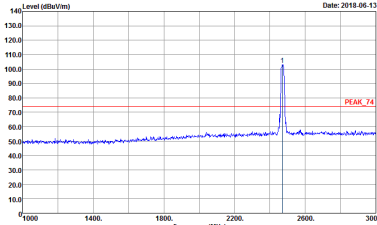
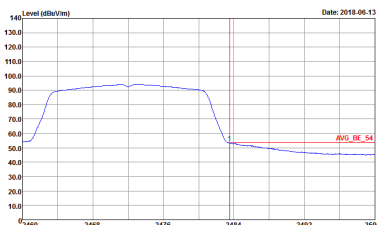
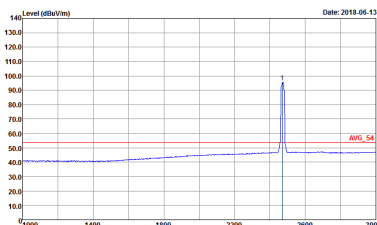
WIFI	2.4GHz 2400~2483.5MHz Fundamental @ 3m	
ANT	802.11n HT20 CH11 2462MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH07-4Y Condition : PEAK_BE_74 3m HF_ANT_00075962 VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 831509-01 Date: 2018-06-13	 Site : 03CH07-4Y Condition : PEAK_74 3m HF_ANT_00075962 VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 831509-01 Date: 2018-06-13
	 Site : 03CH07-4Y Condition : AVG_BE_54 3m HF_ANT_00075962 VERTICAL Detector : RBW:1000.000KHz VBW:1000KHz SWT:Auto Project : Peak Mode : 831509-01 Date: 2018-06-13	 Site : 03CH07-4Y Condition : AVG_54 3m HF_ANT_00075962 VERTICAL Detector : RBW:1000.000KHz VBW:1000KHz SWT:Auto Project : Peak Mode : 831509-01 Date: 2018-06-13
Avg.		



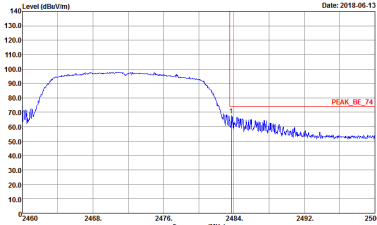
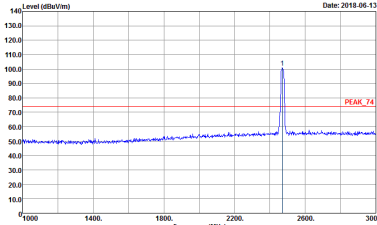
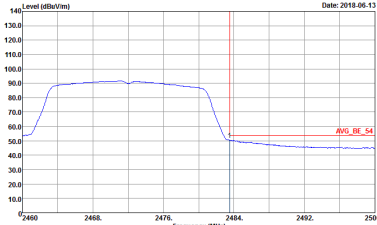
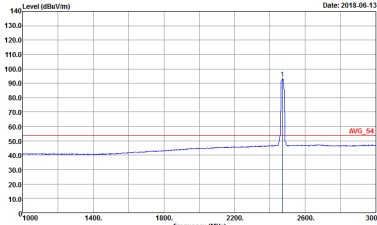
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH12 2467MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH07-4Y Condition : PEAK_BE_74 3m HF_ANT_00075962 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 831509-01 Mode : 32	 Site : 03CH07-4Y Condition : PEAK_74 3m HF_ANT_00075962 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 831509-01 Mode : 32
	 Site : 03CH07-4Y Condition : AVG_BE_54 3m HF_ANT_00075962 HORIZONTAL RBW:1000.000KHz VBW:1000KHz SWT:Auto Detector : Peak Project : 831509-01 Mode : 32	 Site : 03CH07-4Y Condition : AVG_54 3m HF_ANT_00075962 HORIZONTAL RBW:1000.000KHz VBW:1000KHz SWT:Auto Detector : Peak Project : 831509-01 Mode : 32
Avg.		



WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH12 2467MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH07-4Y Condition : PEAK_BE_74 3m HF_ANT_00075962 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 831509-01 Mode : 32	 Site : 03CH07-4Y Condition : PEAK_74 3m HF_ANT_00075962 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 831509-01 Mode : 32
Avg.	 Site : 03CH07-4Y Condition : AVG_BE_54 3m HF_ANT_00075962 VERTICAL RBW:1000.000KHz VBW:1000KHz SWT:Auto Detector : Peak Project : 831509-01 Mode : 32	 Site : 03CH07-4Y Condition : AVG_54 3m HF_ANT_00075962 VERTICAL RBW:1000.000KHz VBW:1000KHz SWT:Auto Detector : Peak Project : 831509-01 Mode : 32

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH13 2472MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH07-4Y Condition : PEAK_BE_74 3m HF_ANT_00075962 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 831509-01 Mode : 33	 Site : 03CH07-4Y Condition : PEAK_74 3m HF_ANT_00075962 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 831509-01 Mode : 33
Avg.	 Site : 03CH07-4Y Condition : AVG_BE_54 3m HF_ANT_00075962 HORIZONTAL Detector : RBW:1000.000KHz VBW:1000KHz SWT:Auto Project : Peak Mode : 831509-01 Mode : 33	 Site : 03CH07-4Y Condition : AVG_54 3m HF_ANT_00075962 HORIZONTAL Detector : RBW:1000.000KHz VBW:1000KHz SWT:Auto Project : Peak Mode : 831509-01 Mode : 33



WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH13 2472MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH07-4Y Condition : PEAK_BE_74 3m HF_ANT_00075962 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 831509-01 Mode : 33	 Site : 03CH07-4Y Condition : PEAK_74 3m HF_ANT_00075962 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 831509-01 Mode : 33
Avg.	 Site : 03CH07-4Y Condition : AVG_BE_54 3m HF_ANT_00075962 VERTICAL RBW:1000.000KHz VBW:1000KHz SWT:Auto Detector : Peak Project : 831509-01 Mode : 33	 Site : 03CH07-4Y Condition : AVG_54 3m HF_ANT_00075962 VERTICAL RBW:1000.000KHz VBW:1000KHz SWT:Auto Detector : Peak Project : 831509-01 Mode : 33



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

WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11b CH01 2412MHz	
1	Horizontal	Vertical
Peak Avg.	Level (dBuV/m) Date: 2018-06-14 PEAK 74 AVG 54 Site : 03CH07-1FY Condition : PEAK_74 3m SHF-EHF_131029 HORIZONTAL Detector : Peak Project : 831509-01 Mode : 19	Level (dBuV/m) Date: 2018-06-14 PEAK 74 AVG 54 Site : 03CH07-1FY Condition : PEAK_74 3m SHF-EHF_131029 VERTICAL Detector : Peak Project : 831509-01 Mode : 19