

FCC RF Test Report

APPLICANT : Zebra Technologies Corporation
EQUIPMENT : Enterprise Tablet
BRAND NAME : Zebra
MODEL NAME : ET55BT
FCC ID : UZ7ET55BT
STANDARD : FCC Part 15 Subpart C §15.247
CLASSIFICATION : (DTS) Digital Transmission System

The product was received on Jun. 01, 2016 and testing was completed on Jul. 19, 2016. 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 test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC., the test report shall not be reproduced except in full.



Reviewed by: Joseph Lin / Supervisor



Approved by: Jones Tsai / Manager



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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FR660115C	Rev. 01	Initial issue of report	Aug. 04, 2016

SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.1	15.247(a)(2)	6dB Bandwidth	$\geq 0.5\text{MHz}$	Pass	-
3.1	-	99% Bandwidth	-	Pass	-
3.2	15.247(b)	Power Output Measurement	$\leq 30\text{dBm}$	Pass	-
3.3	15.247(e)	Power Spectral Density	$\leq 8\text{dBm}/3\text{kHz}$	Pass	-
3.4	15.247(d)	Conducted Band Edges	$\leq 30\text{dBc}$	Pass	-
		Conducted Spurious Emission		Pass	-
3.5	15.247(d)	Radiated Band Edges and Radiated Spurious Emission	15.209(a) & 15.247(d)	Pass	Under limit 1.08 dB at 2389.940 MHz
3.6	15.207	AC Conducted Emission	15.207(a)	Pass	Under limit 16.80 dB at 0.206 MHz
3.7	15.203 & 15.247(b)	Antenna Requirement	N/A	Pass	-



1 General Description

1.1 Applicant

Zebra Technologies Corporation
1 Zebra Plaza, Holtsville, NY 11742

1.2 Manufacturer

Zebra Technologies Corporation
1 Zebra Plaza, Holtsville, NY 11742

1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	Enterprise Tablet
Brand Name	Zebra
Model Name	ET55BT
FCC ID	UZ7ET55BT
EUT supports Radios application	CDMA/EV-DO/GSM/EGPRS/WCDMA/HSPA/LTE/NFC WLAN 11a/b/g/n HT20/HT40 WLAN 11ac VHT20/VHT40/VHT80 Bluetooth v4.0 EDR/LE
HW Version	DV1
SW Version	5.1.1
FW Version	7.35.205.4
MFD	31-Mar-16
EUT Stage	Identical Prototype

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

1.4 Product Specification of Equipment Under Test

Standards-related Product Specification	
Tx/Rx Channel Frequency Range	802.11b/g/n/ac : 2412 MHz ~ 2462 MHz
Maximum Output Power to antenna < Non-TXBF Modes>	<SISO Ant. 1> 802.11b : 13.24 dBm (0.0211 W) 802.11g : 13.41 dBm (0.0219 W) 802.11n HT20 : 13.32 dBm (0.0215 W) 802.11n HT40 : 13.32 dBm (0.0215 W) 802.11ac VHT20 : 13.46 dBm (0.0222 W) 802.11ac VHT40 : 13.38 dBm (0.0218 W) <SISO Ant. 2> 802.11b : 15.41 dBm (0.0348 W) 802.11g : 15.34 dBm (0.0342 W) 802.11n HT20 : 15.32 dBm (0.0340 W) 802.11n HT40 : 15.29 dBm (0.0338 W) 802.11ac VHT20 : 15.42 dBm (0.0348 W) 802.11ac VHT40 : 15.43 dBm (0.0349 W) <MIMO Ant. 1+2> 802.11b : 16.42 dBm (0.0439 W) 802.11g : 16.46 dBm (0.0443 W) 802.11n HT20 : 16.40 dBm (0.0437 W) 802.11n HT40 : 16.30 dBm (0.0427 W) 802.11ac VHT20 : 16.45 dBm (0.0442 W) 802.11ac VHT40 : 16.40 dBm (0.0437 W)
Maximum Output Power to antenna <TXBF Modes>	<MIMO Ant. 1+2> 802.11g : 16.47 dBm (0.0444 W) 802.11n HT20 : 16.36 dBm (0.0433 W) 802.11n HT40 : 16.41 dBm (0.0438 W) 802.11ac VHT20 : 16.41 dBm (0.0438 W) 802.11ac VHT40 : 16.46 dBm (0.0443 W)
99% Occupied Bandwidth < Non-TXBF Modes>	802.11b : 11.80MHz 802.11g : 18.45MHz 802.11n HT20 : 19.10MHz 802.11n HT40 : 36.90MHz 802.11ac VHT20 : 19.25MHz 802.11ac VHT40 : 37.00MHz
99% Occupied Bandwidth <TXBF Modes>	802.11g : 17.85MHz 802.11n HT20 : 18.65MHz 802.11n HT40 : 36.50MHz 802.11ac VHT20 : 18.80MHz 802.11ac VHT40 : 36.60MHz

Standards-related Product Specification			
Antenna Type	<Ant 1> 802.11b/g/n/ac : Ceramic Chip Antenna type with gain 1.90 dBi		
	<Ant 2> 802.11b/g/n/ac : Ceramic Chip Antenna type with gain 1.10 dBi		
Type of Modulation	802.11b : DSSS (DBPSK / DQPSK / CCK) 802.11g/n : OFDM (BPSK / QPSK / 16QAM / 64QAM) 802.11ac : OFDM (BPSK / QPSK / 16QAM / 64QAM / 256QAM)		
Antenna Function for Transmitter		Ant. 1	Ant. 2
	802.11 b/g/n/ac SISO	V	V
	802.11 b/g/n/ac MIMO	V	V

1.5 Modification of EUT

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

1.6 Testing Location

Sporton Lab is accredited to ISO 17025 by Taiwan Accreditation Foundation (TAF code : 1190) and the FCC designation No. TW1022 under the FCC 2.948(e) by Mutual Recognition Agreement (MRA) in FCC Test.

Test Site	SPORTON INTERNATIONAL INC.		
Test Site Location	No. 52, Hwa Ya 1 st Rd., Hwa Ya Technology Park, Kwei-Shan District, Tao Yuan 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.

1.7 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 v03r05
- FCC KDB 662911 D01 Multiple Transmitter Output v02r01.
- FCC KDB 644545 D03 Guidance for IEEE 802 11ac New Rules v01
- ANSI C63.10-2013

Remark:

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

2 Test Configuration of Equipment Under Test

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: conducted emission (150 kHz to 30 MHz) and radiated 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.

RF power setting is set individually to meet FCC compliance limit for the final conducted and radiated tests shown in section 2.2.

2.1 Carrier Frequency and Channel

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

2.2 RF Power

Preliminary tests were performed in different data rate and data rate associated with the highest power were chosen for full test shown in the following tables.

<Non-TXBF Modes>

SISO <Ant. 1>

Channel	Frequency	2.4GHz 802.11b RF Average Power (dBm)			
		DSSS Data Rate			
		1 Mbps	2 Mbps	5.5 Mbps	11 Mbps
CH 06	2437MHz	13.24	13.12	13.21	13.22

Channel	Frequency	2.4GHz 802.11g RF Average Power (dBm)							
		OFDM Data Rate							
		6 Mbps	9 Mbps	12 Mbps	18 Mbps	24 Mbps	36 Mbps	48 Mbps	54 Mbps
CH 06	2437MHz	13.41	13.29	13.17	13.25	13.40	12.50	12.21	12.23

Channel	Frequency	2.4GHz 802.11n HT20 RF Average Power (dBm)							
		OFDM Data Rate							
		MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
CH 06	2437MHz	13.32	13.31	13.29	11.56	11.31	10.98	11.68	10.60

Channel	Frequency	2.4GHz 802.11n HT40 RF Average Power (dBm)							
		OFDM Data Rate							
		MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
CH 06	2437MHz	13.32	13.12	13.21	13.25	12.27	12.03	12.07	10.03

Channel	Frequency	2.4GHz 802.11ac VHT20 RF Average Power (dBm)								
		OFDM Data Rate								
		MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	MCS8
CH 06	2437MHz	13.46	13.45	13.45	11.89	11.74	11.71	11.91	10.90	10.83

Channel	Frequency	2.4GHz 802.11ac VHT40 RF Average Power (dBm)									
		OFDM Data Rate									
		MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	MCS8	MCS9
CH 06	2437MHz	13.38	13.17	13.30	13.38	12.27	11.90	11.92	10.09	9.45	8.83

SISO <Ant. 2>

Channel	Frequency	2.4GHz 802.11b RF Average Power (dBm)			
		DSSS Data Rate			
		1 Mbps	2 Mbps	5.5 Mbps	11 Mbps
CH 06	2437MHz	15.41	15.31	15.34	15.31

Channel	Frequency	2.4GHz 802.11g RF Average Power (dBm)							
		OFDM Data Rate							
		6 Mbps	9 Mbps	12 Mbps	18 Mbps	24 Mbps	36 Mbps	48 Mbps	54 Mbps
CH 06	2437MHz	15.34	15.05	15.09	15.04	15.30	14.36	13.99	14.14

Channel	Frequency	2.4GHz 802.11n HT20 RF Average Power (dBm)							
		OFDM Data Rate							
		MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
CH 06	2437MHz	15.32	15.07	15.06	14.82	14.97	14.82	13.71	12.83

Channel	Frequency	2.4GHz 802.11n HT40 RF Average Power (dBm)							
		OFDM Data Rate							
		MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
CH 06	2437MHz	15.29	14.61	14.68	14.88	13.64	13.16	13.50	11.66

Channel	Frequency	2.4GHz 802.11ac VHT20 RF Average Power (dBm)								
		OFDM Data Rate								
		MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	MCS8
CH 06	2437MHz	15.42	14.85	14.98	13.91	13.49	13.37	13.42	12.49	12.64

Channel	Frequency	2.4GHz 802.11ac VHT40 RF Average Power (dBm)									
		OFDM Data Rate									
		MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	MCS8	MCS9
CH 06	2437MHz	15.43	15.26	14.67	15.10	14.35	13.83	13.93	12.31	11.80	11.30

MIMO <Ant. 1+2>

Channel	Frequency	2.4GHz 802.11b RF Average Power (dBm)			
		DSSS Data Rate			
		1 Mbps	2 Mbps	5.5 Mbps	11 Mbps
CH 06	2437MHz	16.42	16.37	16.38	16.34

Channel	Frequency	2.4GHz 802.11g RF Average Power (dBm)							
		OFDM Data Rate							
		6 Mbps	9 Mbps	12 Mbps	18 Mbps	24 Mbps	36 Mbps	48 Mbps	54 Mbps
CH 06	2437MHz	16.46	16.34	15.98	16.00	16.39	15.99	15.19	15.51

Channel	Frequency	2.4GHz 802.11n HT20 RF Average Power (dBm)							
		OFDM Data Rate							
		MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
CH 06	2437MHz	16.40	16.23	16.35	14.71	14.75	14.76	14.75	13.79

Channel	Frequency	2.4GHz 802.11n HT40 RF Average Power (dBm)							
		OFDM Data Rate							
		MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
CH 06	2437MHz	16.30	16.14	16.22	16.28	15.33	14.93	14.67	13.12

Channel	Frequency	2.4GHz 802.11ac VHT20 RF Average Power (dBm)								
		OFDM Data Rate								
		MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	MCS8
CH 06	2437MHz	16.45	16.33	16.37	14.66	14.77	14.81	14.75	13.92	13.80

Channel	Frequency	2.4GHz 802.11ac VHT40 RF Average Power (dBm)									
		OFDM Data Rate									
		MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	MCS8	MCS9
CH 06	2437MHz	16.40	16.24	16.22	16.37	15.63	15.54	15.47	13.80	13.22	12.67

Note: MIMO Ant. 1+2 is a calculated result from sum of the power MIMO Ant. 1 and MIMO Ant. 2.

<TXBF Modes>
MIMO <Ant. 1+2>

Channel	Frequency	2.4GHz 802.11g RF Average Power (dBm)							
		OFDM Data Rate							
		6 Mbps	9 Mbps	12 Mbps	18 Mbps	24 Mbps	36 Mbps	48 Mbps	54 Mbps
CH 01	2412MHz	16.47	16.32	16.32	16.27	16.37	16.31	16.21	16.21

Channel	Frequency	2.4GHz 802.11n HT20 RF Average Power (dBm)							
		OFDM Data Rate							
		MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
CH 01	2412MHz	16.36	16.26	16.21	16.21	16.21	16.21	16.21	16.16

Channel	Frequency	2.4GHz 802.11n HT40 RF Average Power (dBm)							
		OFDM Data Rate							
		MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
CH 03	2422MHz	16.41	16.17	16.11	16.21	16.11	16.17	16.17	16.11

Channel	Frequency	2.4GHz 802.11ac VHT20 RF Average Power (dBm)								
		OFDM Data Rate								
		MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	MCS8
CH 01	2412MHz	16.41	16.16	16.11	16.11	16.16	16.16	16.16	16.16	16.11

Channel	Frequency	2.4GHz 802.11ac VHT40 RF Average Power (dBm)									
		OFDM Data Rate									
		MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	MCS8	MCS9
CH 03	2422MHz	16.46	16.26	16.21	16.16	16.16	16.16	16.16	16.16	16.21	16.26

Note: MIMO Ant. 1+2 is a calculated result from sum of the power MIMO Ant. 1 and MIMO Ant. 2.

2.3 Test Mode

Final test mode of conducted test items and radiated spurious emissions are considering the modulation and worse data rates from the power table described in section 2.2.

< Non-TXBF Modes>

Single Antenna

Modulation	Data Rate
802.11b	1 Mbps
802.11g	6 Mbps
802.11n HT20	MCS0
802.11n HT40	MCS0
802.11ac VHT20	MCS0
802.11ac VHT40	MCS0

MIMO Antenna

Modulation	Data Rate
802.11b	1 Mbps
802.11g	6 Mbps
802.11n HT20	MCS0
802.11n HT40	MCS0
802.11ac VHT20	MCS0
802.11ac VHT40	MCS0

<TXBF Modes>

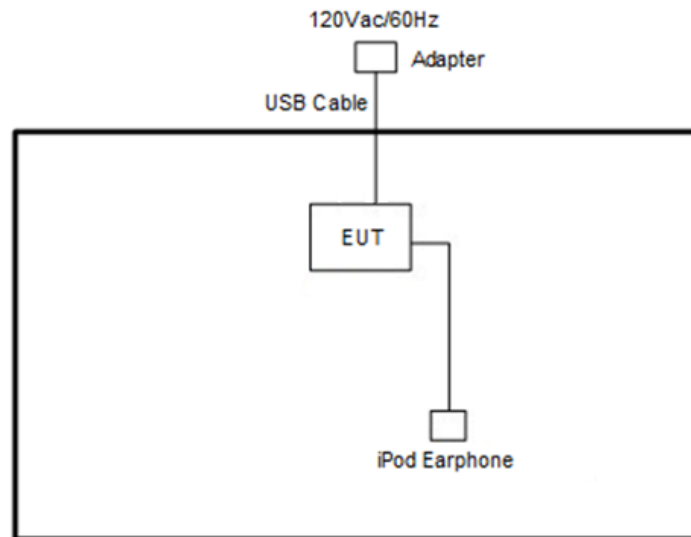
MIMO Antenna

Modulation	Data Rate
802.11g	6 Mbps
802.11n HT20	MCS0
802.11n HT40	MCS0
802.11ac VHT20	MCS0
802.11ac VHT40	MCS0

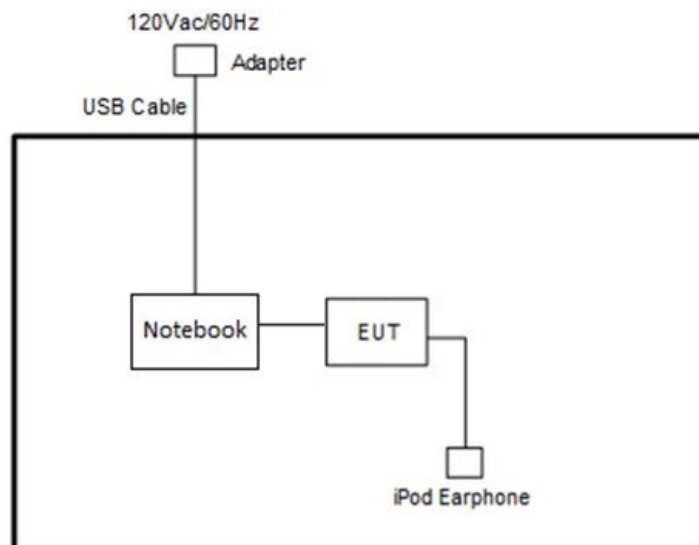
Test Cases	
AC Conducted Emission	Mode 1 : Bluetooth Link + WLAN (2.4GHz) Link + Battery + Earphone + USB Cable (Charging from Adapter)

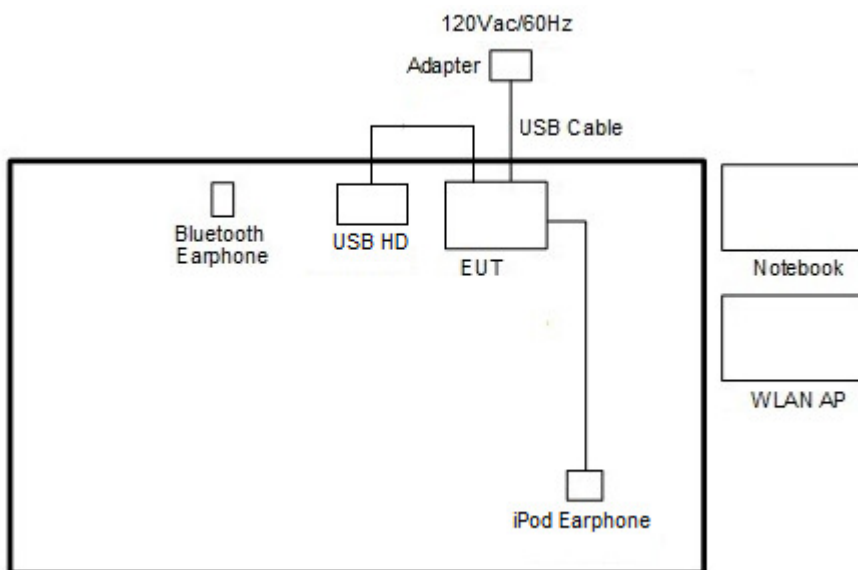
2.4 Connection Diagram of Test System

<WLAN Tx Non-TXBF Mode>



<WLAN Tx TXBF Mode>



<AC Conducted Emission Mode>

2.5 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model Name	FCC ID	Data Cable	Power Cord
1.	WLAN AP	D-Link	DIR-865L	KA2IR865LA1	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.	Bluetooth Earphone	Sony Ericsson	MW600	PY7DDA-2029	N/A	N/A
4.	iPod Earphone	Apple	N/A	Verification	Unshielded, 1.0 m	N/A
5.	Adapter	Delta Electronics	ADP-10BWC	FCC DoC	N/A	N/A
6.	SD Card	SanDisk	MicroSD HC	FCC DoC	N/A	N/A
7.	USB HD	WD	WDBAAR3200 ABK-PESN	FCC DoC	Unshielded, 0.5 m	N/A



2.6 EUT Operation Test Setup

For Non-TXBF modes programmed RF utility installed in the notebook make the EUT provide functions like channel selection and power level for continuous transmitting and receiving signals.

For WLAN MIMO TXBF modes, the EUT was tested under normal operation and link to another EUT with power, modulation modes and data rates controlled by engineer mode command lines. The iperf software tool was used to make EUT continuous transmitting signals.

2.7 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.

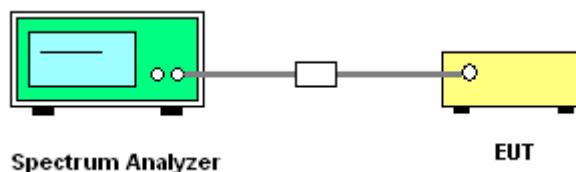
3.1.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.1.3 Test Procedures

1. The testing follows FCC KDB Publication No. 558074 DTS D01 Meas. Guidance v03r05.
2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the EUT transmit continuously.
4. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 100 kHz. Set the Video bandwidth (VBW) = 300 kHz. In order to make an accurate measurement. The 6 dB bandwidth must be greater than 500 kHz.
5. For 99% Bandwidth Measurement, the spectrum analyzer's resolution bandwidth (RBW) = 1MHz and set the Video bandwidth (VBW) = 3MHz.
6. Measure and record the results in the test report.

3.1.4 Test Setup

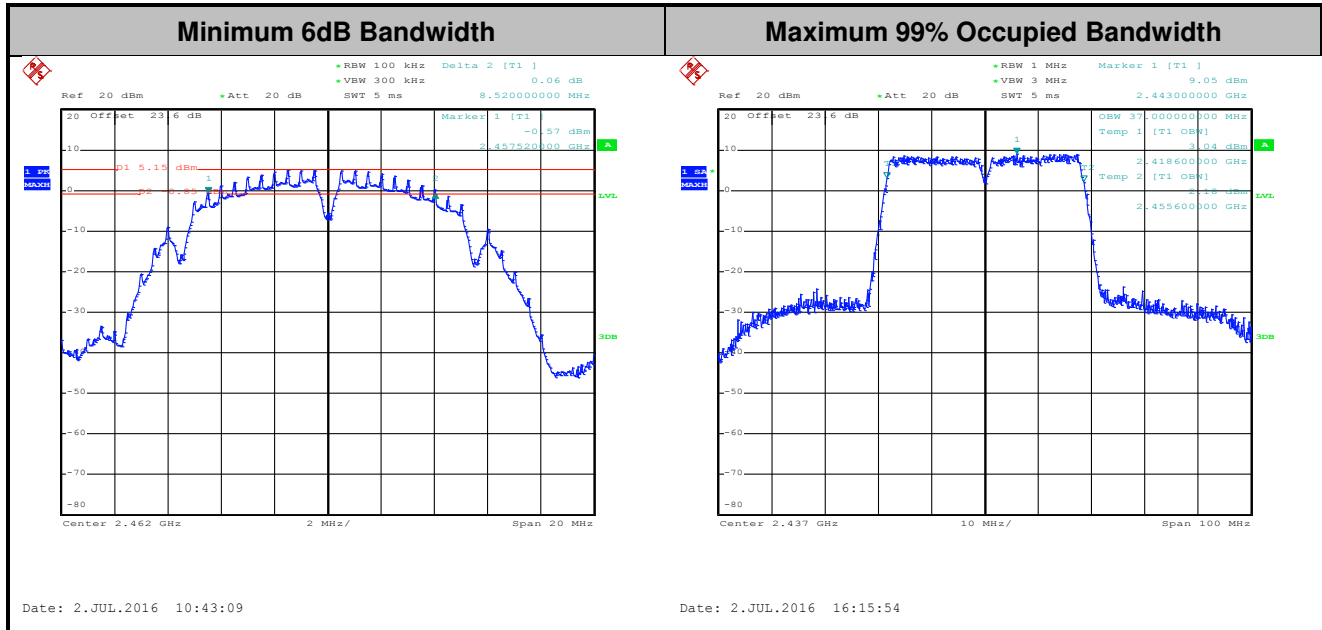




3.1.5 Test Result of 6dB and 99% Occupied Bandwidth

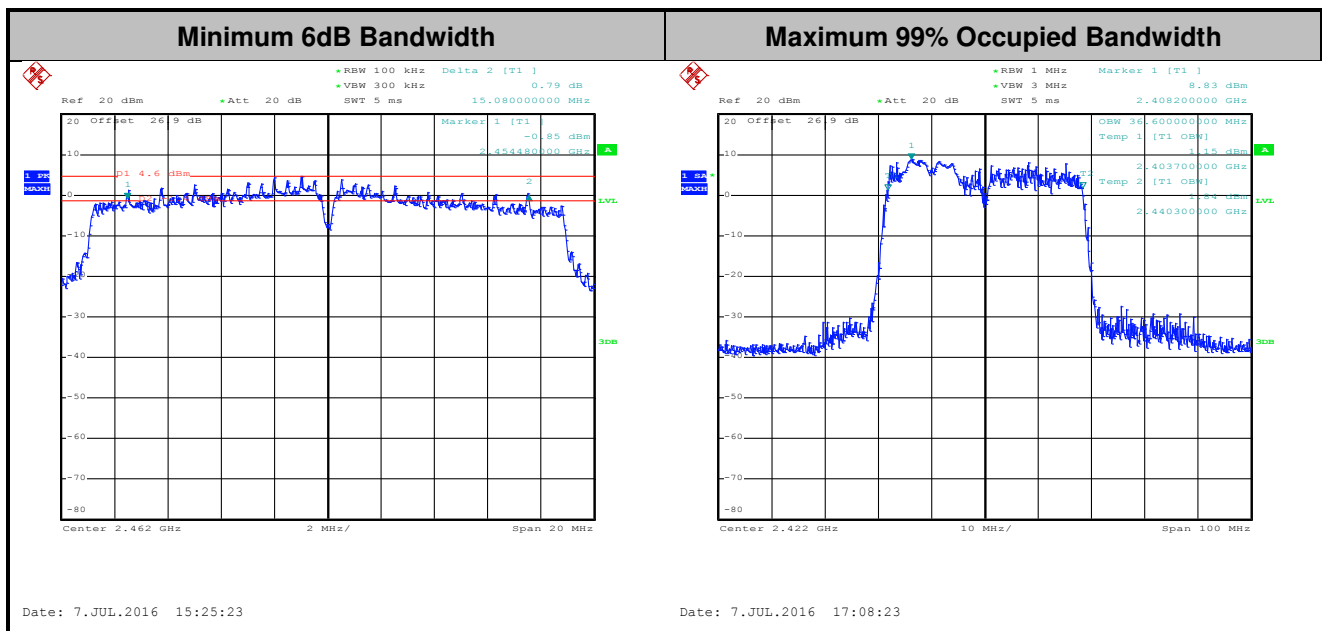
Please refer to Appendix A of this report.

< Non-TXBF Modes >



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

<TXBF Modes>



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

3.2 Average Output Power Measurement

3.2.1 Limit of Average Output Power

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

3.2.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.2.3 Test Procedures

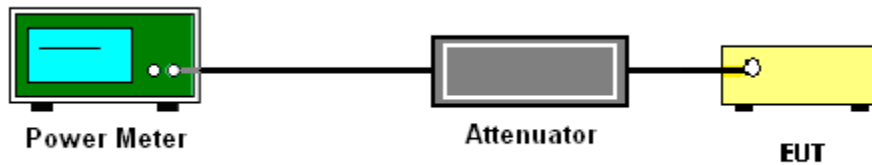
CDD Modes

1. The testing follows the Measurement Procedure of FCC KDB No. 558074 DTS D01 Meas. Guidance v03r05 section 9.2.3.1 Method AVGPM.
2. The RF output of EUT was connected to the power meter by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the EUT transmit continuously.
4. Measure the conducted output power and record the results in the test report.
5. For MIMO mode, calculation method follows FCC KDB 662911 D01 Multiple Transmitter Output v02r01.

TXBF Modes

1. The testing follows the Measurement Procedure of FCC KDB No. 558074 DTS D01 Meas. Guidance v03r05 section 9.2.3.2 Method AVGPM-G.
2. The RF output of EUT was connected to the power meter by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the EUT transmit continuously.
4. Measure the conducted output power and record the results in the test report.
5. For MIMO mode, calculation method follows FCC KDB 662911 D01 Multiple Transmitter Output v02r01.

3.2.4 Test Setup



3.2.5 Test Result of Peak Output Power

Please refer to Appendix A of this test report.

3.2.6 Test Result of Average output Power

Please refer to Appendix A of this test report.

3.3 Power Spectral Density Measurement

3.3.1 Limit of Power Spectral Density

The average 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

The measuring equipment is listed in the section 4 of this test report.

3.3.3 Test Procedures

CDD Modes

Method AVGPSD-2

1. The testing follows Measurement Procedure 10.5 Method AVGPSD-2 of FCC KDB Publication No. 558074 D01 DTS Meas. Guidance v03r05.
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) = 10 kHz. Video bandwidth VBW = 30 kHz In order to make an accurate measurement, set the span to 1.5 times DTS Channel Bandwidth. (6dB BW).
5. Number of points in sweep ≥ 2 Span / RBW. (This ensures that bin-to-bin spacing is $\leq$ RBW/2, so that narrowband signals are not lost between frequency bins).
6. Detector = RMS, Sweep time = auto couple.
7. Trace average at least 100 traces in power averaging mode.
8. Add $10 \log(1/x)$, where x is the duty cycle, to the measured power in order to compute the average power during the actual transmission times. For example, add $10 \log(1/0.25) = 6$ dB if the duty cycle is 25 percent.
9. Measure and record the results in the test report. For MIMO mode, calculation method follows FCC KDB 662911 D01 Multiple Transmitter Output v02r01.

Method (c): Measure and add $10 \log(N_{\text{ANT}})$ dB.

With this technique, spectrum measurements are performed at each output of the device, but rather than summing the spectra or the spectral peaks across the outputs, the quantity $10 \log(N_{\text{ANT}})$ dB is added to each spectrum value before comparing to the emission limit. The addition of $10 \log(N_{\text{ANT}})$ dB serves to apportion the emission limit among the N_{ANT} outputs so that each output is permitted to contribute no more than $1/N_{\text{ANT}}^{\text{th}}$ of the PSD limit .

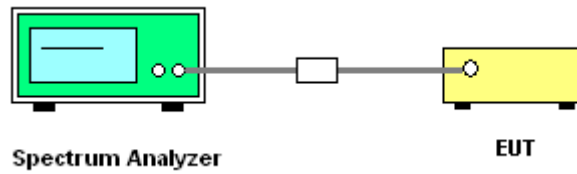
TXBF Modes**Method AVGPSSD-3**

1. The testing follows Measurement Procedure 10.7 Method AVGPSSD-3 of FCC KDB Publication No. 558074 D01 DTS Meas. Guidance v03r05.
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) = 10 kHz. Video bandwidth VBW = 30 kHz In order to make an accurate measurement, set the span to 1.5 times DTS Channel Bandwidth. (6dB BW).
5. Number of points in sweep ≥ 2 Span / RBW. (This ensures that bin-to-bin spacing is $\leq$ RBW/2, so that narrowband signals are not lost between frequency bins).
6. Detector = RMS, Sweep time = auto couple.
7. Trace mode = max hold.
8. Allow max hold to run for at least 60 seconds, or longer as needed to allow the trace to stabilize.
9. Measure and record the results in the test report. For MIMO mode, calculation method follows FCC KDB 662911 D01 Multiple Transmitter Output v02r01.

Method (c): Measure and add $10 \log(N_{\text{ANT}})$ dB.

With this technique, spectrum measurements are performed at each output of the device, but rather than summing the spectra or the spectral peaks across the outputs, the quantity $10 \log(N_{\text{ANT}})$ dB is added to each spectrum value before comparing to the emission limit. The addition of $10 \log(N_{\text{ANT}})$ dB serves to apportion the emission limit among the N_{ANT} outputs so that each output is permitted to contribute no more than $1/N_{\text{ANT}}^{\text{th}}$ of the PSD limit .

3.3.4 Test Setup

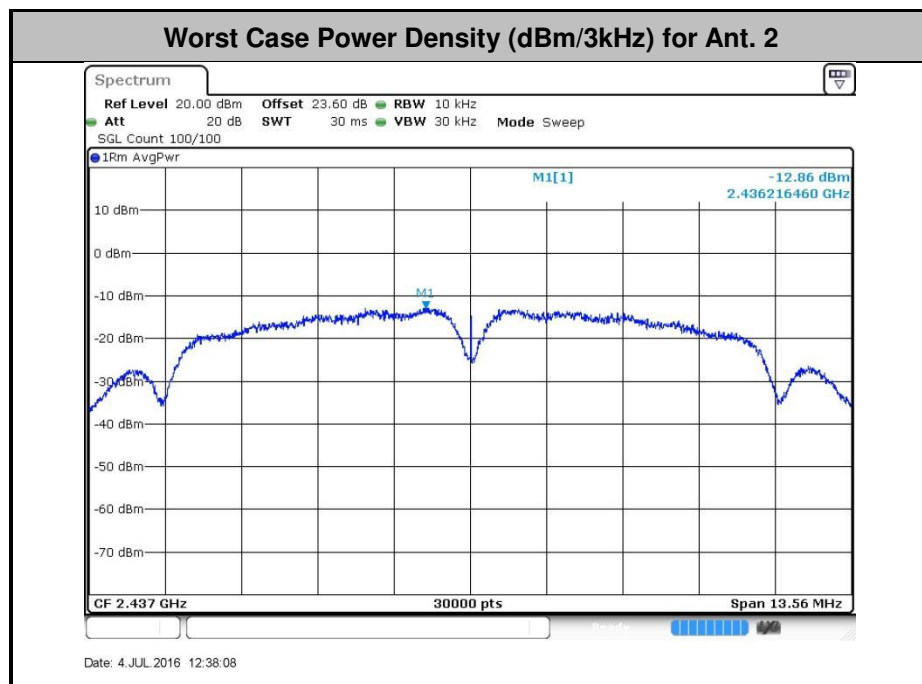
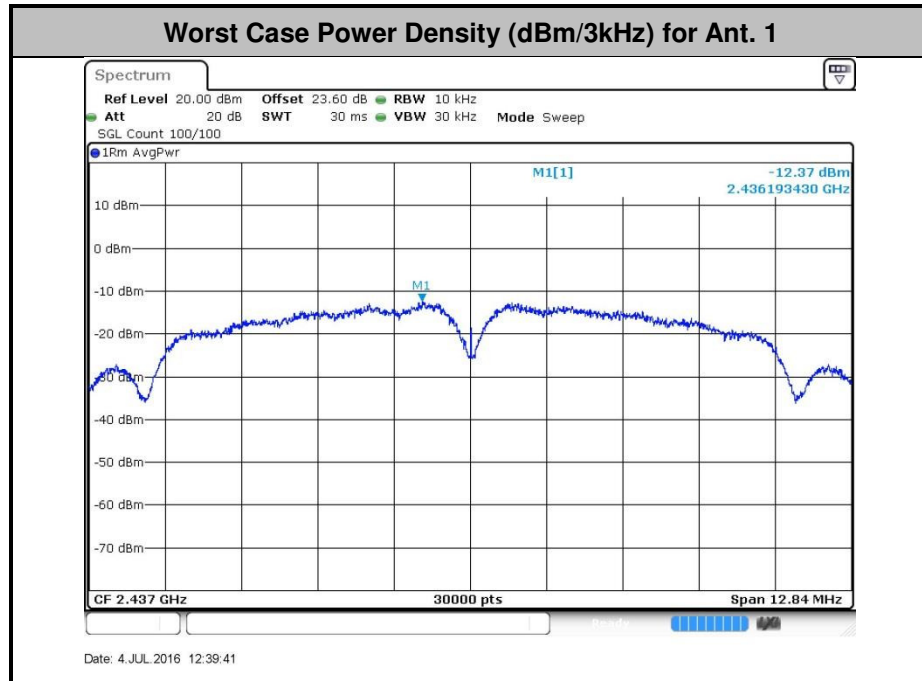


3.3.5 Test Result of Power Spectral Density

Please refer to Appendix A of this report.

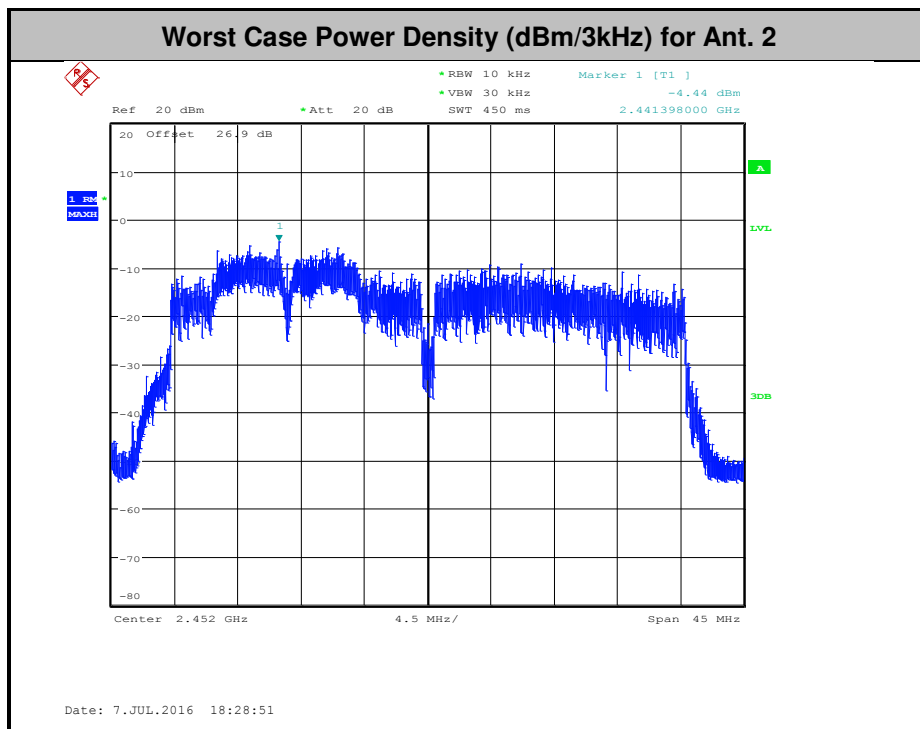
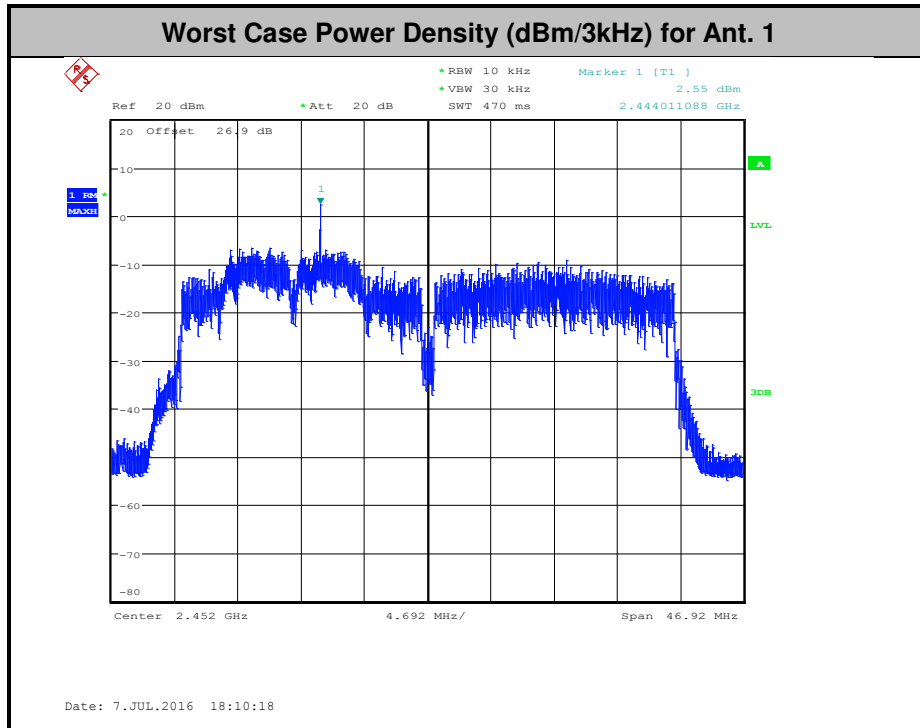


< Non-TXBF Modes>





<TXBF Modes>



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 and radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a).

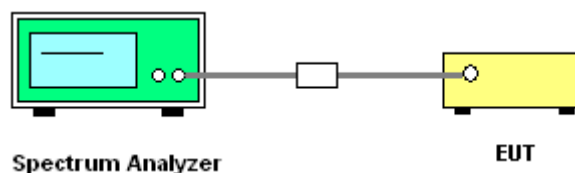
3.4.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.4.3 Test Procedures

1. The testing follows FCC KDB Publication No. 558074 D01 DTS Meas. Guidance v03r05.
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

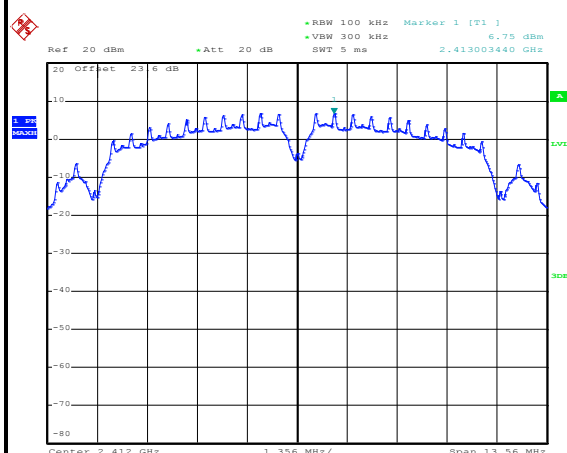
< Non-TXBF Modes>

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

Number of TX	1	Ant. :	2
Test Mode :	802.11b	Temperature :	21~25℃
Test Band :	2.4GHz Low	Relative Humidity :	51~54%
Test Channel :	01	Test Engineer :	Tommy Lee and Luffy Lin

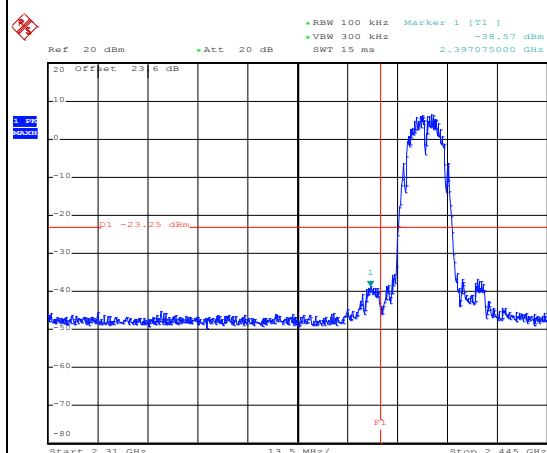
WLAN 802.11b Channel 01

100kHz PSD reference Level



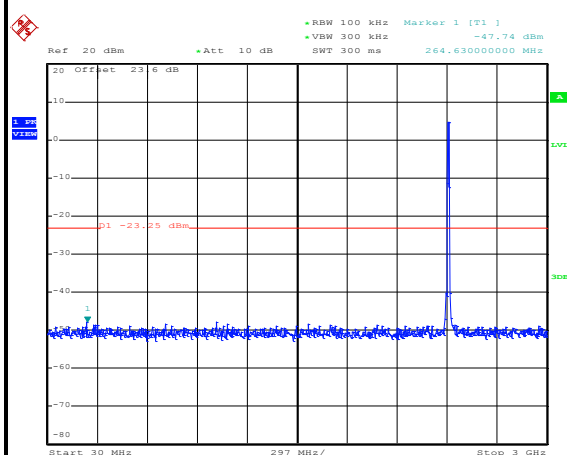
Date: 2.JUL.2016 09:26:51

Low Channel Plot



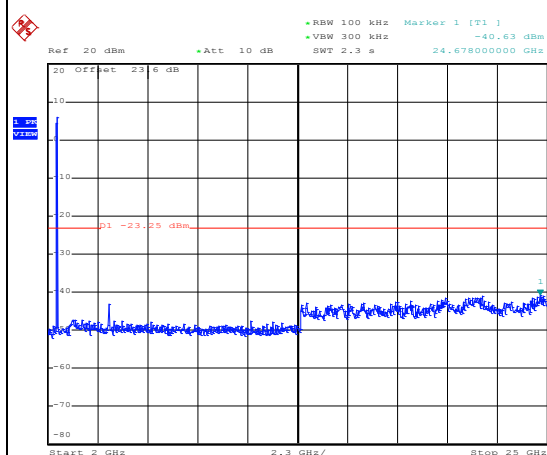
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Spurious Emission 30MHz~3GHz



Date: 2.JUL.2016 09:28:30

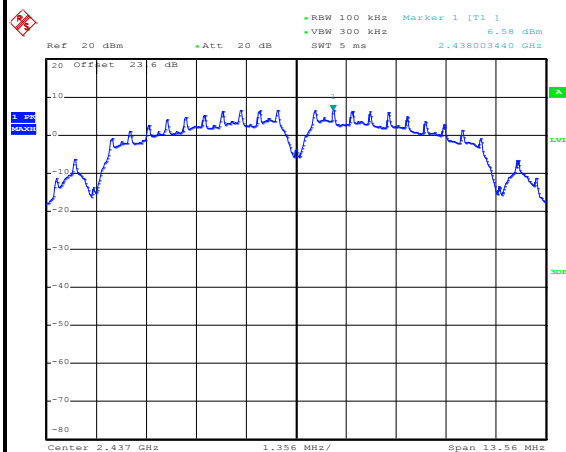
Spurious Emission 2GHz~25GHz



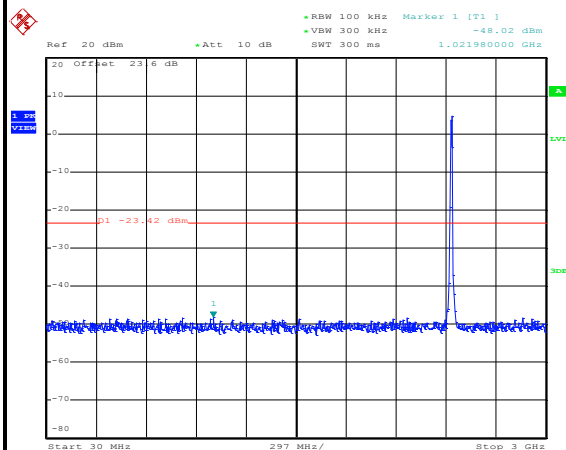
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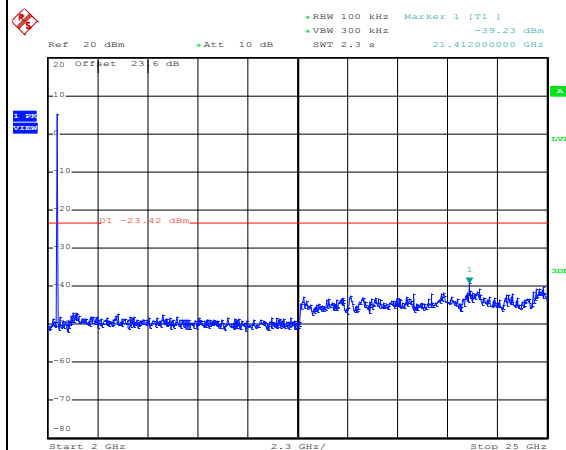
Number of TX :	1	Ant. :	2
Test Mode :	802.11b	Temperature :	21~25°C
Test Band :	2.4GHz Mid	Relative Humidity :	51~54%
Test Channel :	06	Test Engineer :	Tommy Lee and Luffy Lin

WLAN 802.11b Channel 06**100kHz PSD reference Level**

Date: 2.JUL.2016 09:47:58

Spurious Emission 30MHz~3GHz

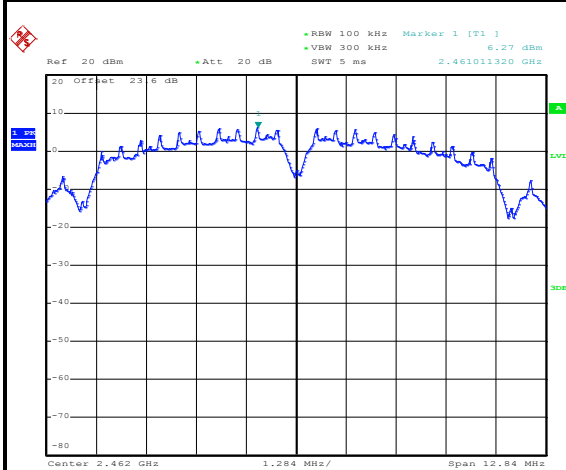
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Spurious Emission 2GHz~25GHz

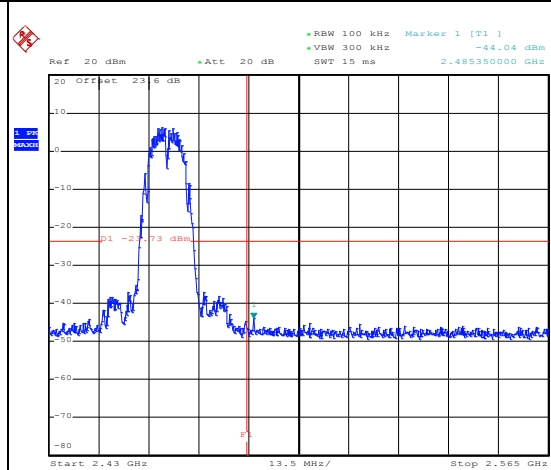
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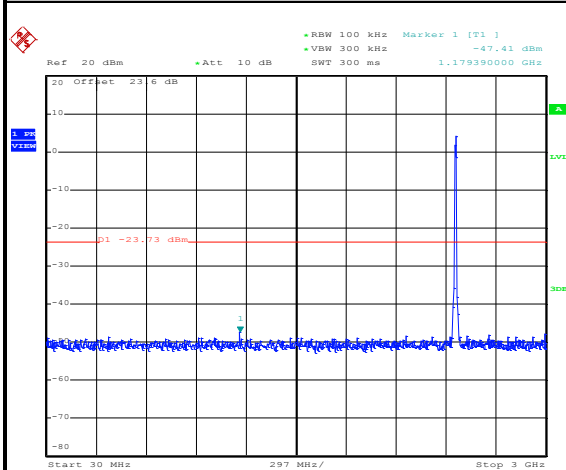
Number of TX :	1	Ant. :	2
Test Mode :	802.11b	Temperature :	21~25°C
Test Band :	2.4GHz High	Relative Humidity :	51~54%
Test Channel :	11	Test Engineer :	Tommy Lee and Luffy Lin

WLAN 802.11b Channel 11**100kHz PSD reference Level**

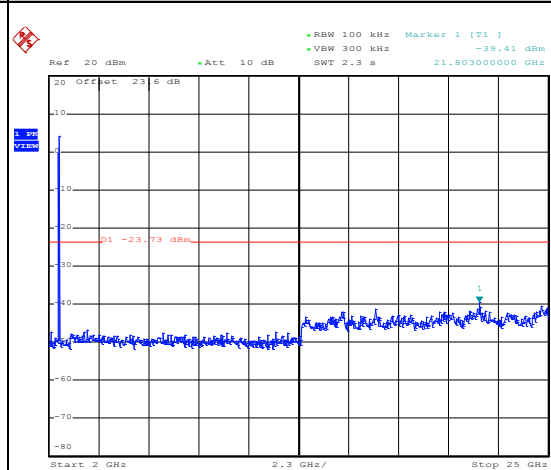
Date: 2.JUL.2016 09:58:44

High Channel Plot

Date: 2.JUL.2016 09:59:23

Spurious Emission 30MHz~3GHz

Date: 2.JUL.2016 09:59:38

Spurious Emission 2GHz~25GHz

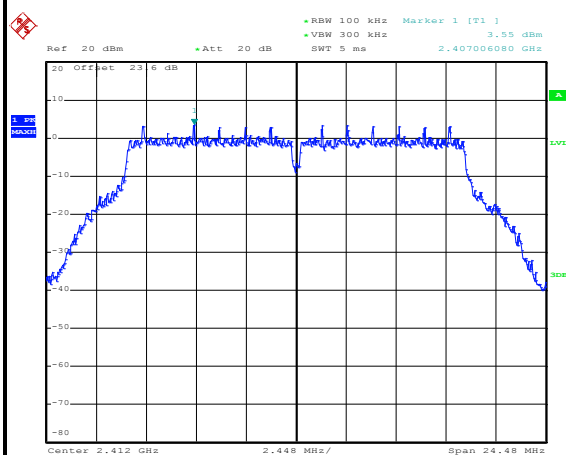
Date: 2.JUL.2016 09:59:46



Number of TX :	1	Ant. :	2
Test Mode :	802.11g	Temperature :	21~25°C
Test Band :	2.4GHz Low	Relative Humidity :	51~54%
Test Channel :	01	Test Engineer :	Tommy Lee and Luffy Lin

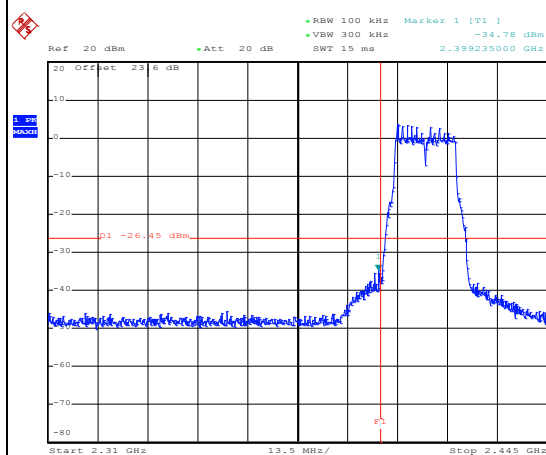
WLAN 802.11g Channel 01

100kHz PSD reference Level



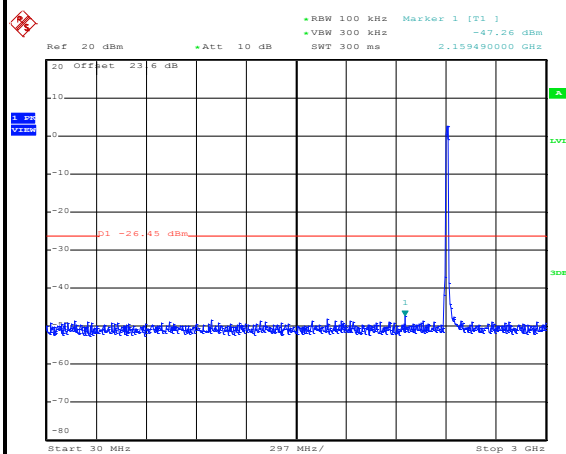
Date: 2.JUL.2016 10:58:42

Low Channel Plot



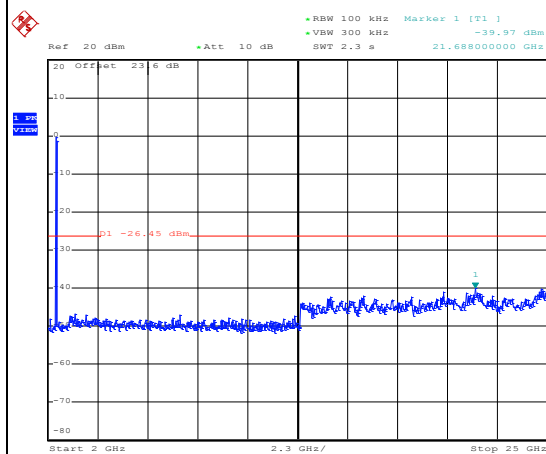
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Spurious Emission 30MHz~3GHz



Date: 2.JUL.2016 10:59:43

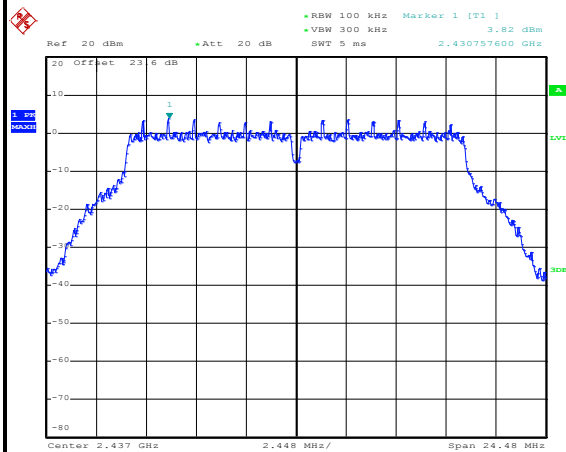
Spurious Emission 2GHz~25GHz



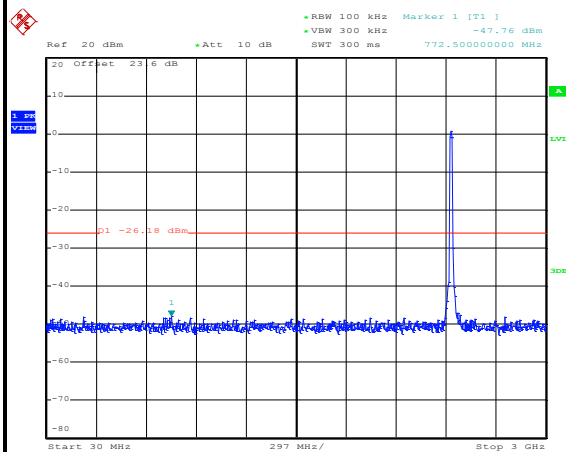
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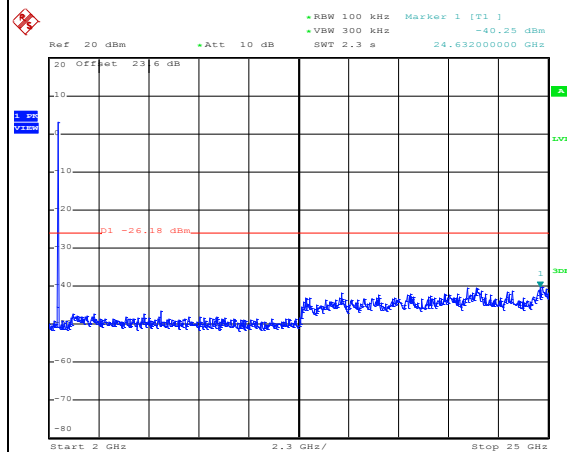
Number of TX :	1	Ant. :	2
Test Mode :	802.11g	Temperature :	21~25°C
Test Band :	2.4GHz Mid	Relative Humidity :	51~54%
Test Channel :	06	Test Engineer :	Tommy Lee and Luffy Lin

WLAN 802.11g Channel 06**100kHz PSD reference Level**

Date: 2.JUL.2016 11:04:57

Spurious Emission 30MHz~3GHz

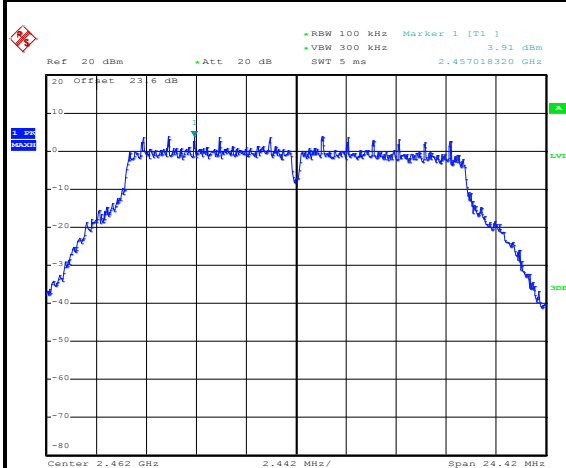
Date: 2.JUL.2016 11:07:22

Spurious Emission 2GHz~25GHz

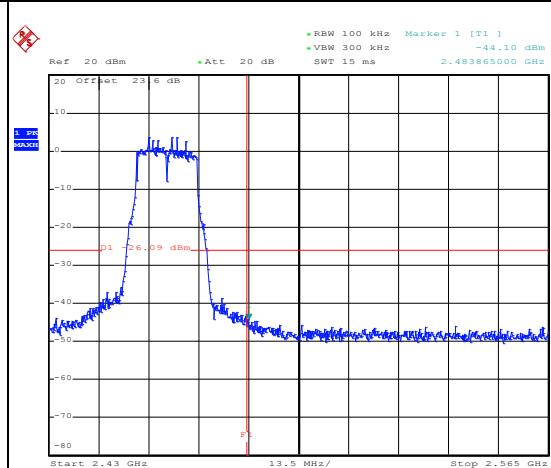
Date: 2.JUL.2016 11:07:30



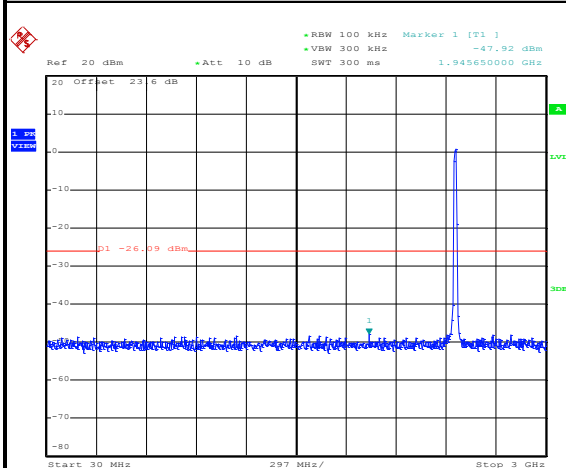
Number of TX :	1	Ant. :	2
Test Mode :	802.11g	Temperature :	21~25°C
Test Band :	2.4GHz High	Relative Humidity :	51~54%
Test Channel :	11	Test Engineer :	Tommy Lee and Luffy Lin

WLAN 802.11g Channel 11**100kHz PSD reference Level**

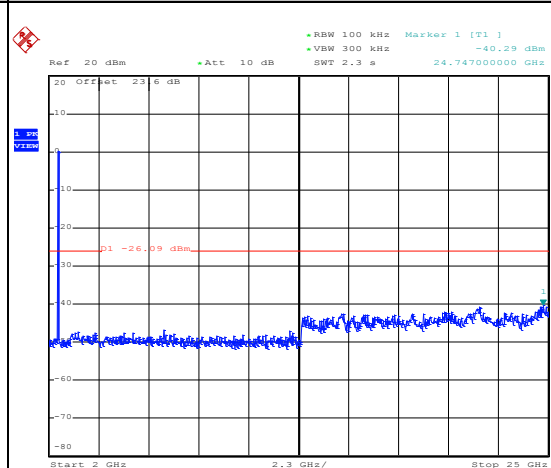
Date: 2.JUL.2016 11:13:48

High Channel Plot

Date: 2.JUL.2016 11:14:19

Spurious Emission 30MHz~3GHz

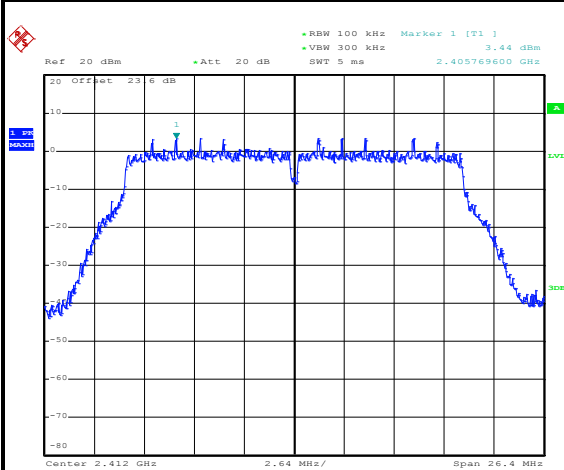
Date: 2.JUL.2016 11:15:24

Spurious Emission 2GHz~25GHz

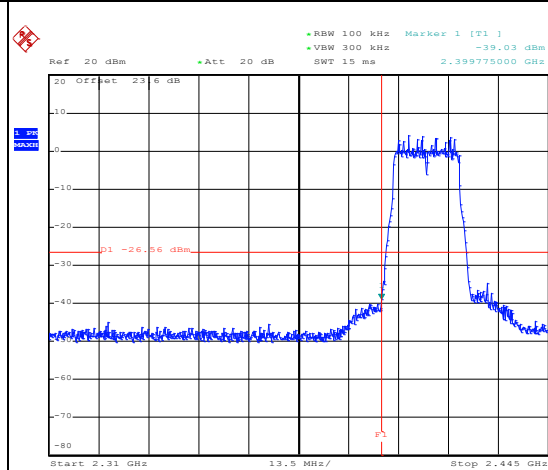
Date: 2.JUL.2016 11:15:32



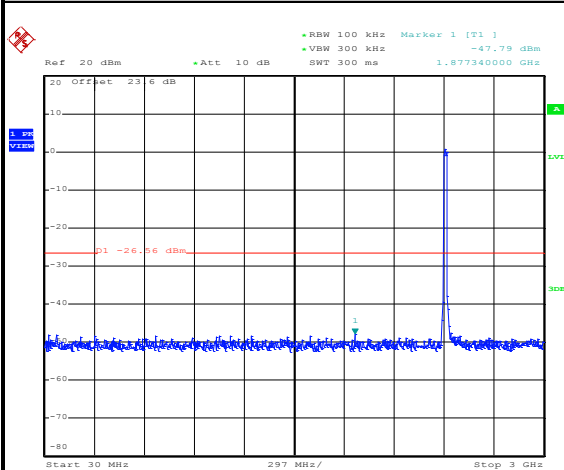
Number of TX :	1	Ant. :	2
Test Mode :	802.11n HT20	Temperature :	21~25°C
Test Band :	2.4GHz Low	Relative Humidity :	51~54%
Test Channel :	01	Test Engineer :	Tommy Lee and Luffy Lin

WLAN 802.11n HT20 Channel 01**100kHz PSD reference Level**

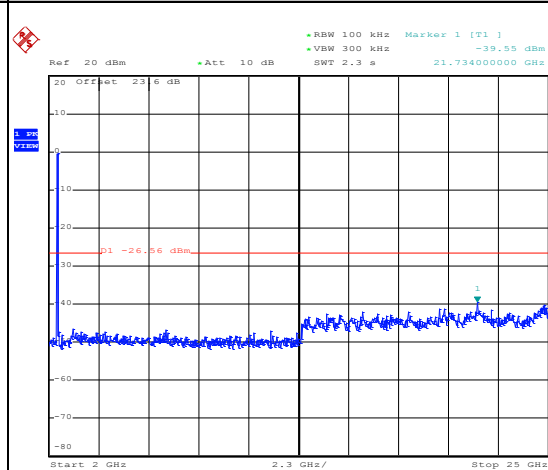
Date: 2.JUL.2016 12:49:40

Low Channel Plot

Date: 2.JUL.2016 12:50:42

Spurious Emission 30MHz~3GHz

Date: 2.JUL.2016 12:51:03

Spurious Emission 2GHz~25GHz

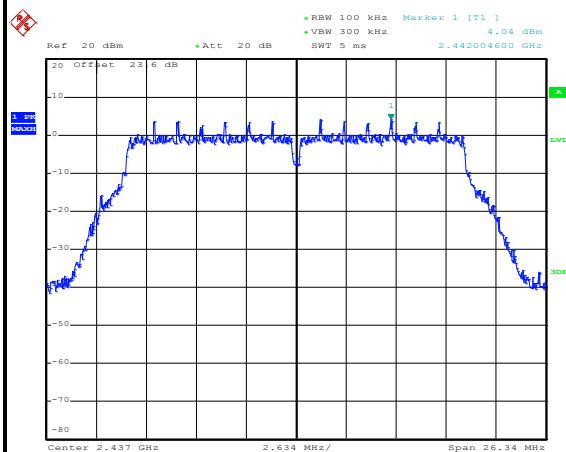
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Number of TX :	1	Ant. :	2
Test Mode :	802.11n HT20	Temperature :	21~25°C
Test Band :	2.4GHz Mid	Relative Humidity :	51~54%
Test Channel :	06	Test Engineer :	Tommy Lee and Luffy Lin

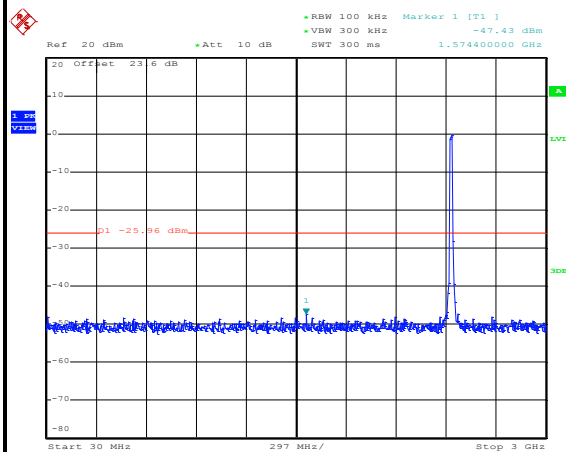
WLAN 802.11n HT20 Channel 06

100kHz PSD reference Level



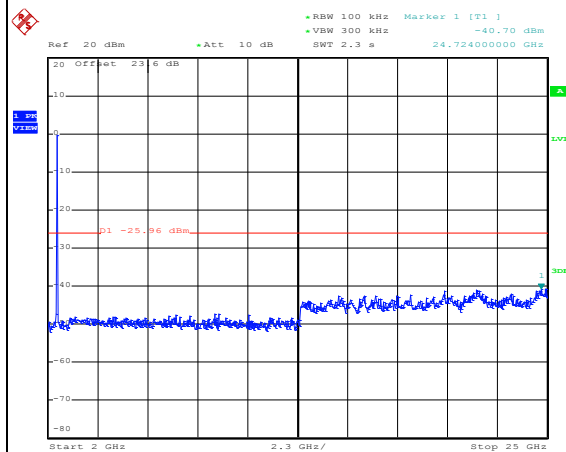
Date: 2.JUL.2016 12:54:18

Spurious Emission 30MHz~3GHz



Date: 2.JUL.2016 12:54:42

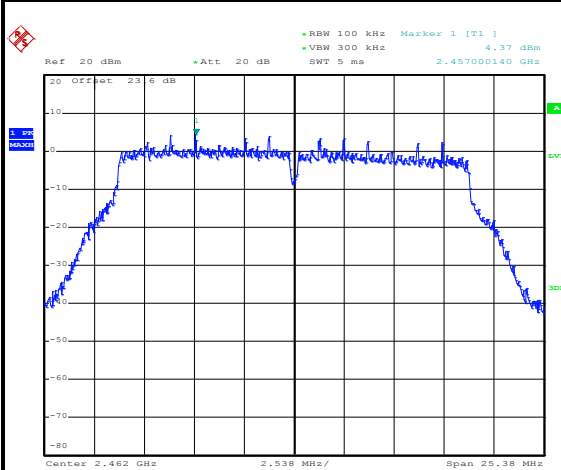
Spurious Emission 2GHz~25GHz



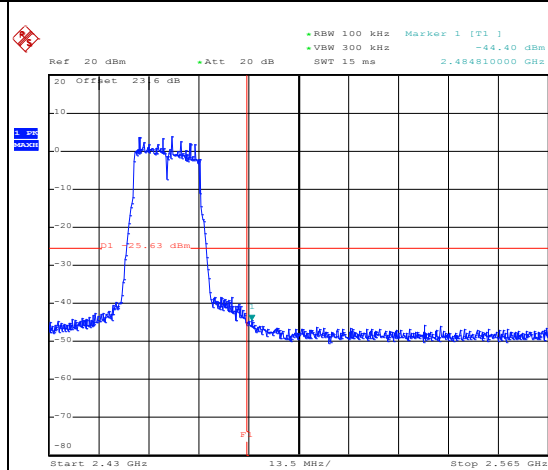
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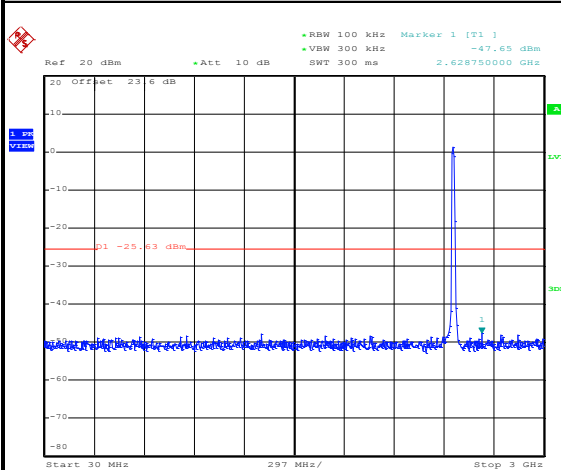
Number of TX :	1	Ant. :	2
Test Mode :	802.11n HT20	Temperature :	21~25°C
Test Band :	2.4GHz High	Relative Humidity :	51~54%
Test Channel :	11	Test Engineer :	Tommy Lee and Luffy Lin

WLAN 802.11n HT20 Channel 11**100kHz PSD reference Level**

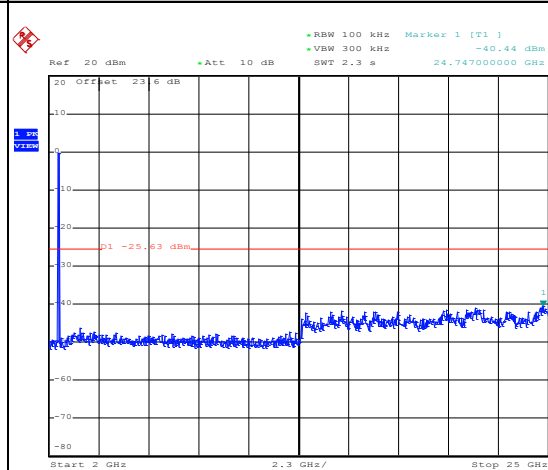
Date: 2.JUL.2016 12:58:08

High Channel Plot

Date: 2.JUL.2016 12:58:35

Spurious Emission 30MHz~3GHz

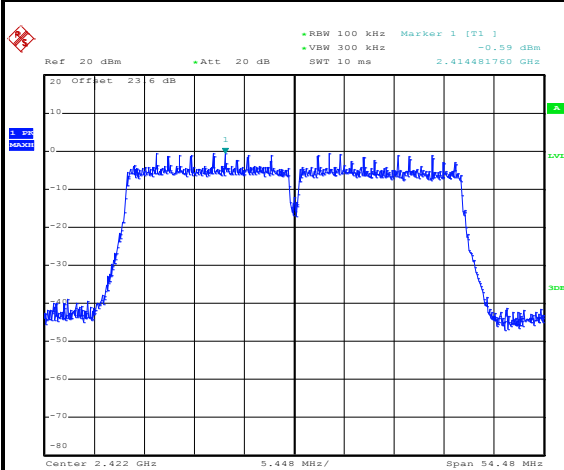
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Spurious Emission 2GHz~25GHz

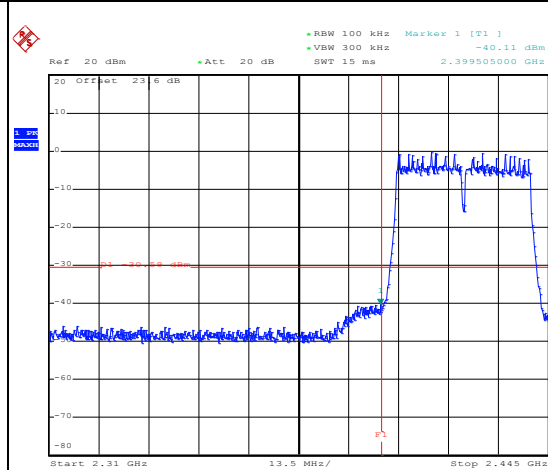
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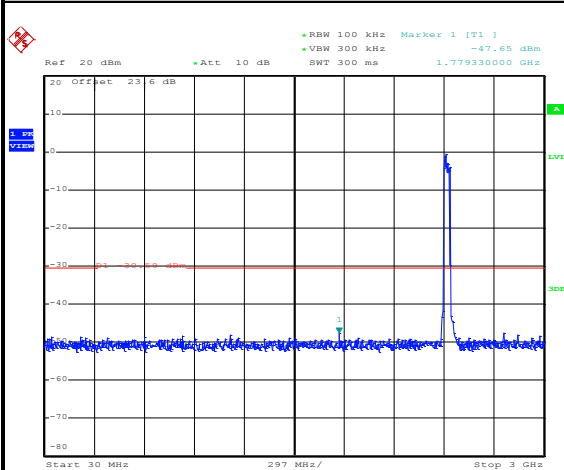
Number of TX :	1	Ant. :	2
Test Mode :	802.11n HT40	Temperature :	21~25°C
Test Band :	2.4GHz Low	Relative Humidity :	51~54%
Test Channel :	03	Test Engineer :	Tommy Lee and Luffy Lin

WLAN 802.11n HT40 Channel 03**100kHz PSD reference Level**

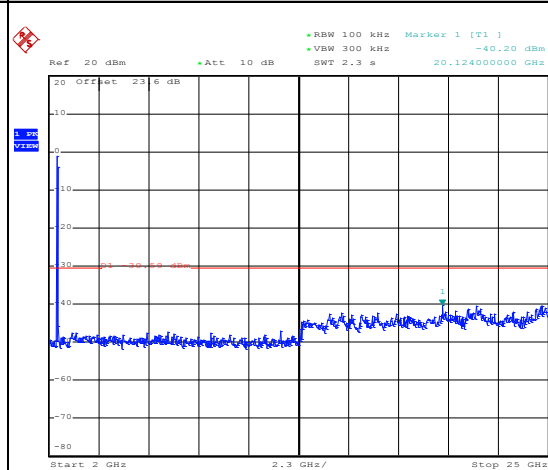
Date: 2.JUL.2016 13:48:46

Low Channel Plot

Date: 2.JUL.2016 13:49:14

Spurious Emission 30MHz~3GHz

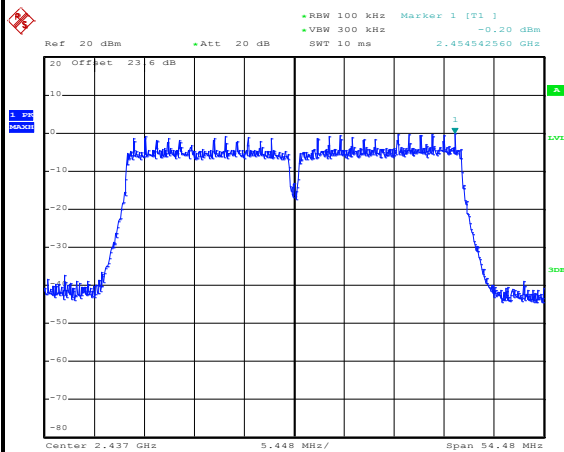
Date: 2.JUL.2016 13:49:27

Spurious Emission 2GHz~25GHz

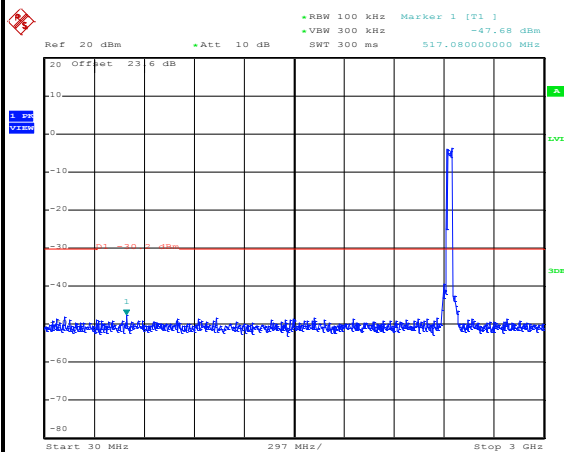
Date: 2.JUL.2016 13:49:36



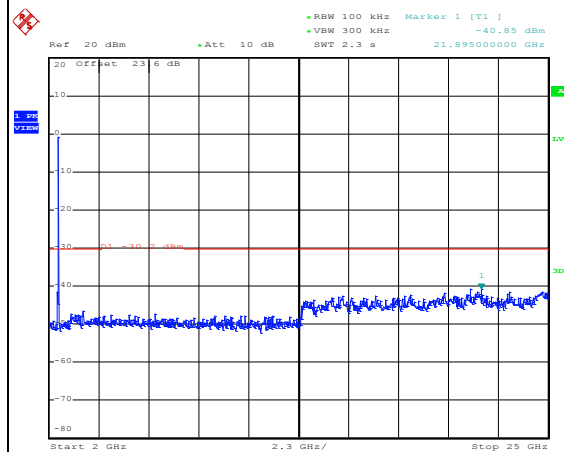
Number of TX :	1	Ant. :	2
Test Mode :	802.11n HT40	Temperature :	21~25°C
Test Band :	2.4GHz Mid	Relative Humidity :	51~54%
Test Channel :	06	Test Engineer :	Tommy Lee and Luffy Lin

WLAN 802.11n HT40 Channel 06**100kHz PSD reference Level**

Date: 2.JUL.2016 13:55:13

Spurious Emission 30MHz~3GHz

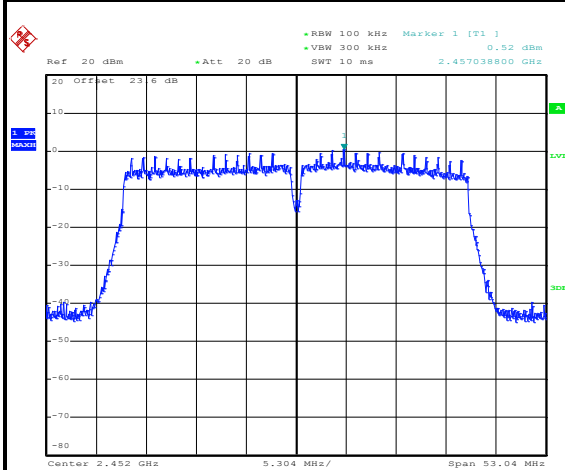
Date: 2.JUL.2016 13:55:50

Spurious Emission 2GHz~25GHz

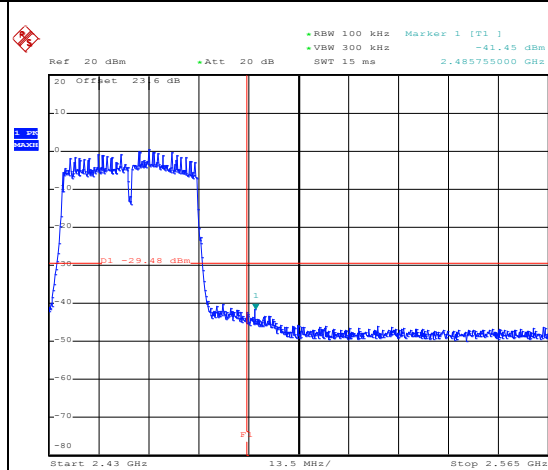
Date: 2.JUL.2016 13:55:58



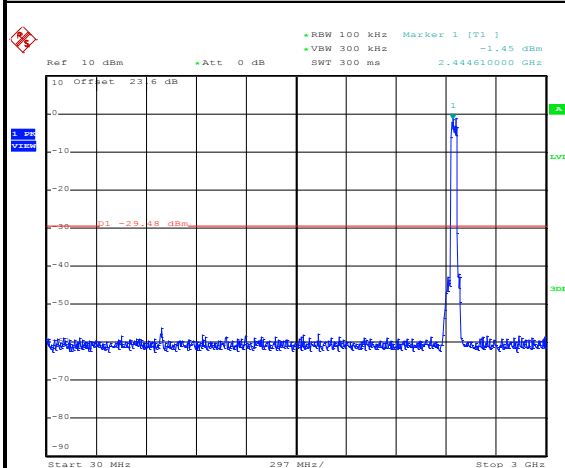
Number of TX :	1	Ant. :	2
Test Mode :	802.11n HT40	Temperature :	21~25°C
Test Band :	2.4GHz High	Relative Humidity :	51~54%
Test Channel :	09	Test Engineer :	Tommy Lee and Luffy Lin

WLAN 802.11n HT40 Channel 09**100kHz PSD reference Level**

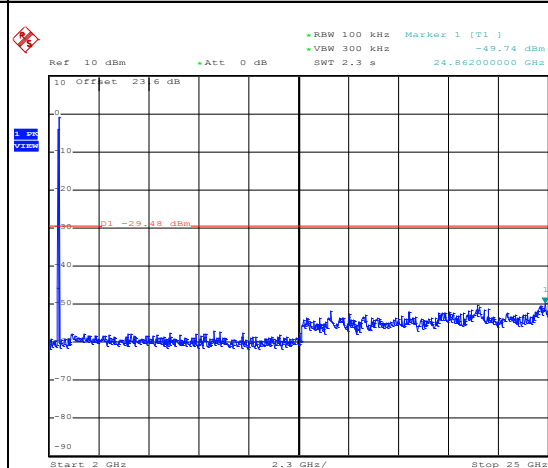
Date: 19.JUL.2016 01:17:21

High Channel Plot

Date: 19.JUL.2016 01:17:51

Spurious Emission 30MHz~3GHz

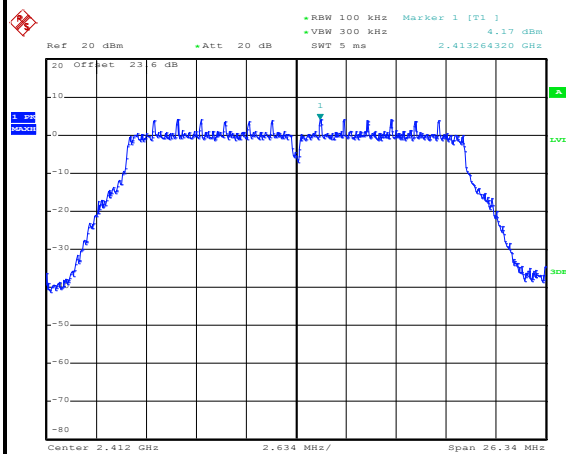
Date: 19.JUL.2016 01:18:16

Spurious Emission 2GHz~25GHz

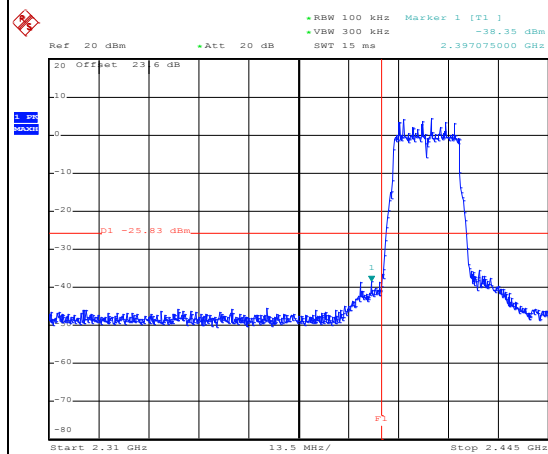
Date: 19.JUL.2016 01:18:24



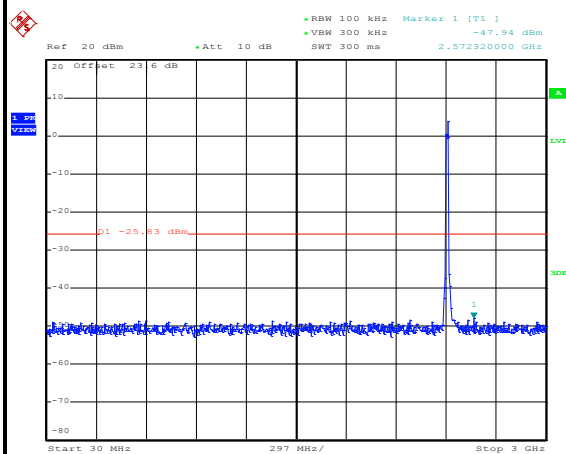
Number of TX :	1	Ant. :	2
Test Mode :	802.11ac VHT20	Temperature :	21~25°C
Test Band :	2.4GHz Low	Relative Humidity :	51~54%
Test Channel :	01	Test Engineer :	Tommy Lee and Luffy Lin

WLAN 802.11ac VHT20 Channel 01**100kHz PSD reference Level**

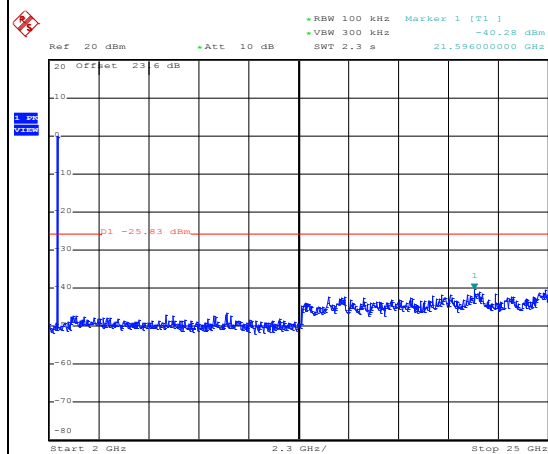
Date: 2.JUL.2016 14:54:51

Low Channel Plot

Date: 2.JUL.2016 14:55:36

Spurious Emission 30MHz~3GHz

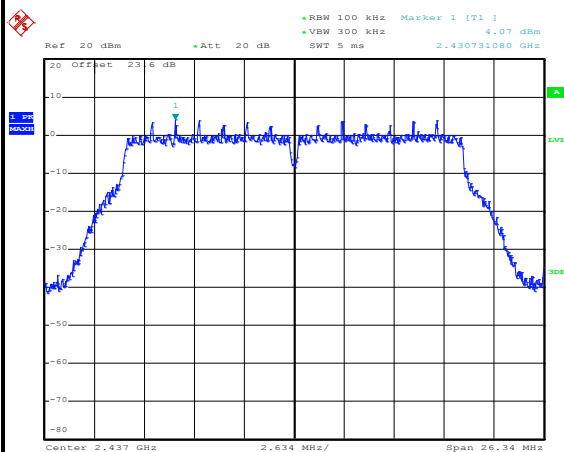
Date: 2.JUL.2016 14:55:59

Spurious Emission 2GHz~25GHz

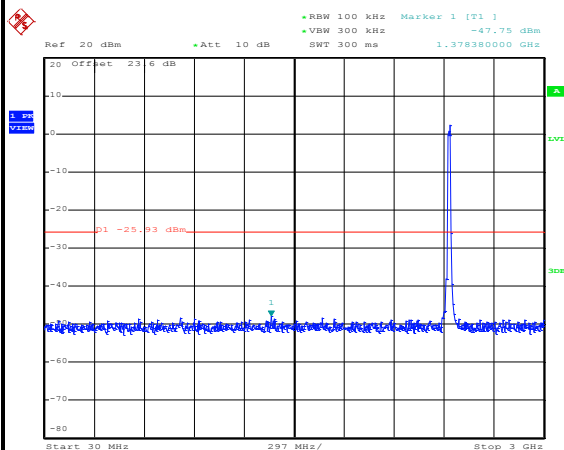
Date: 2.JUL.2016 14:56:07



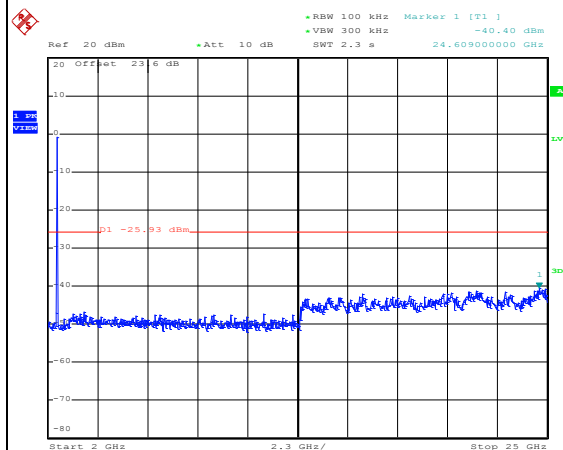
Number of TX :	1	Ant. :	2
Test Mode :	802.11ac VHT20	Temperature :	21~25°C
Test Band :	2.4GHz Mid	Relative Humidity :	51~54%
Test Channel :	06	Test Engineer :	Tommy Lee and Luffy Lin

WLAN 802.11ac VHT20 Channel 06**100kHz PSD reference Level**

Date: 2.JUL.2016 15:00:27

Spurious Emission 30MHz~3GHz

Date: 2.JUL.2016 15:01:32

Spurious Emission 2GHz~25GHz

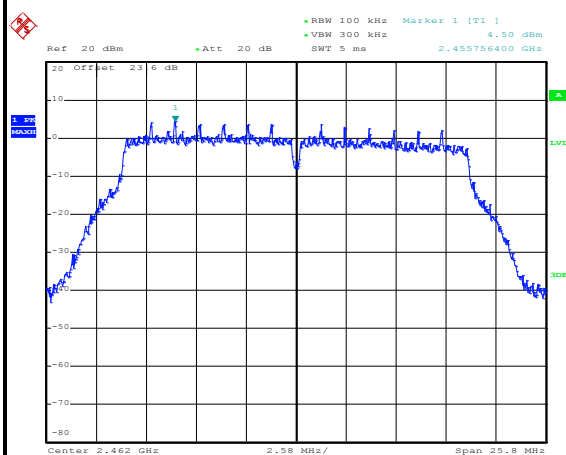
Date: 2.JUL.2016 15:01:40



Number of TX :	1	Ant. :	2
Test Mode :	802.11ac VHT20	Temperature :	21~25°C
Test Band :	2.4GHz High	Relative Humidity :	51~54%
Test Channel :	11	Test Engineer :	Tommy Lee and Luffy Lin

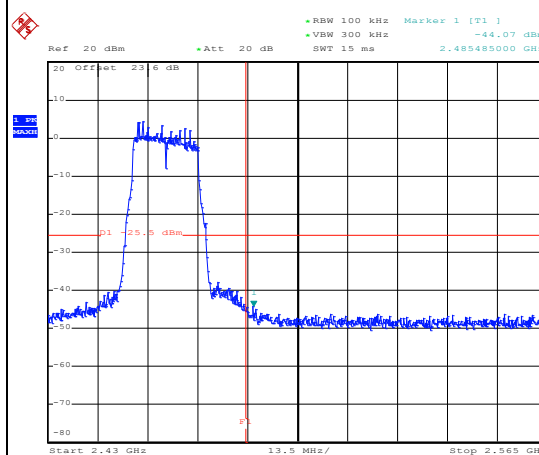
WLAN 802.11ac VHT20 Channel 11

100kHz PSD reference Level



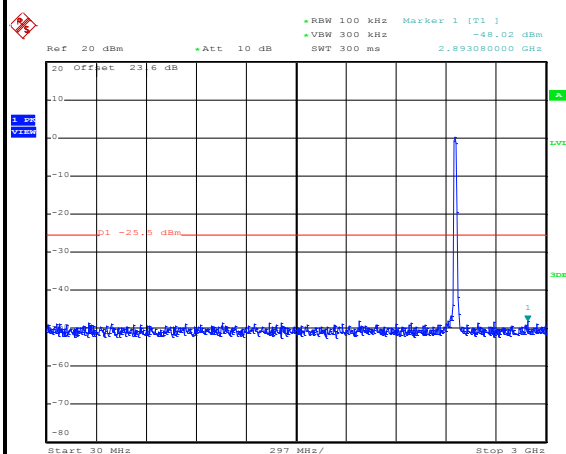
Date: 2.JUL.2016 15:06:37

High Channel Plot



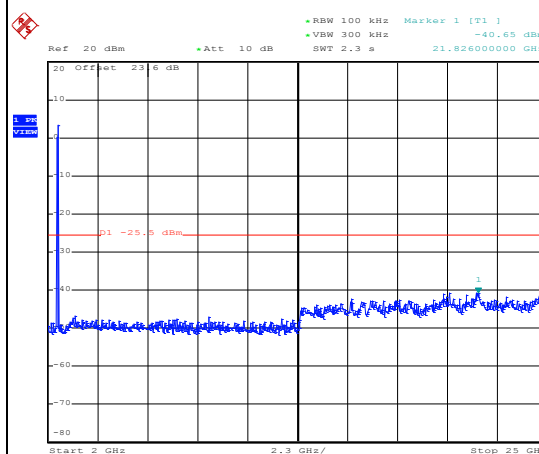
Date: 2.JUL.2016 15:08:13

Spurious Emission 30MHz~3GHz



Date: 2.JUL.2016 15:08:30

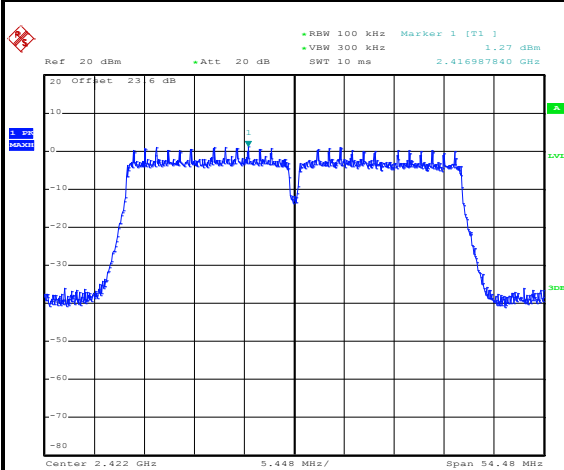
Spurious Emission 2GHz~25GHz



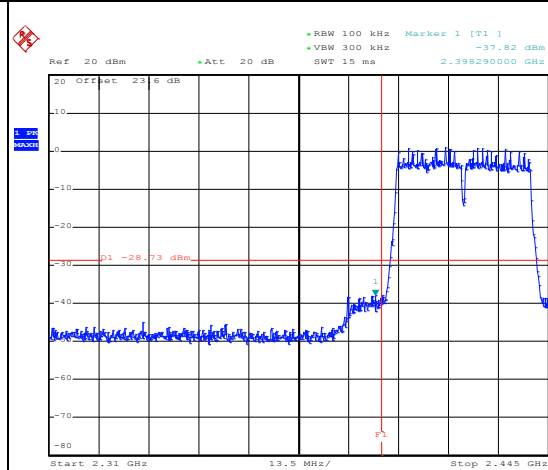
Date: 2.JUL.2016 15:08:39



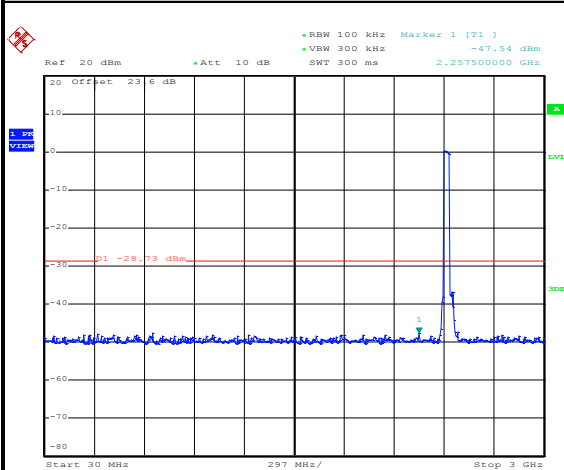
Number of TX :	1	Ant. :	2
Test Mode :	802.11ac VHT40	Temperature :	21~25°C
Test Band :	2.4GHz Low	Relative Humidity :	51~54%
Test Channel :	03	Test Engineer :	Tommy Lee and Luffy Lin

WLAN 802.11ac VHT40 Channel 03**100kHz PSD reference Level**

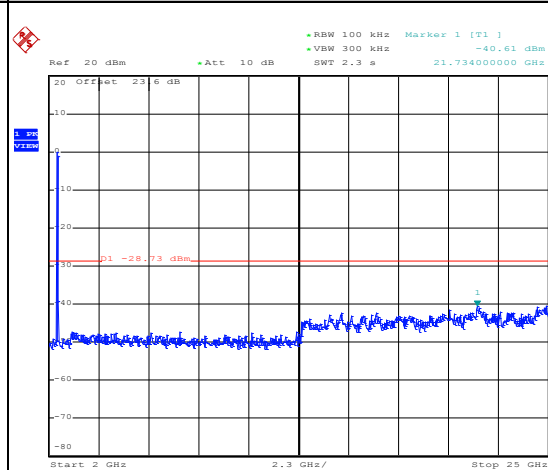
Date: 2.JUL.2016 16:07:51

Low Channel Plot

Date: 2.JUL.2016 16:08:05

Spurious Emission 30MHz~3GHz

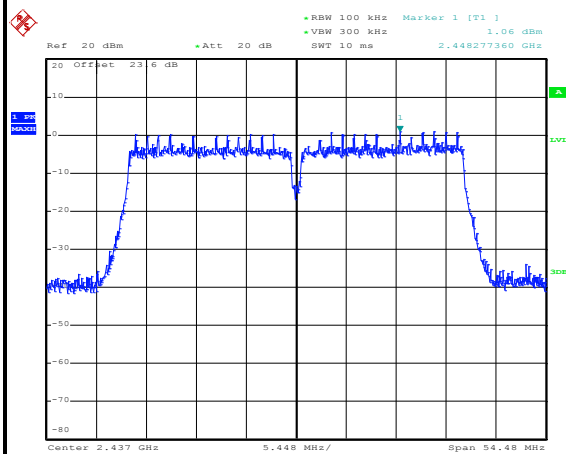
Date: 2.JUL.2016 16:11:30

Spurious Emission 2GHz~25GHz

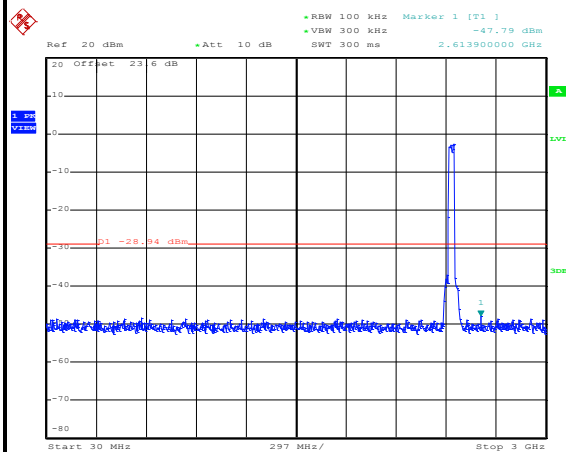
Date: 2.JUL.2016 16:10:00



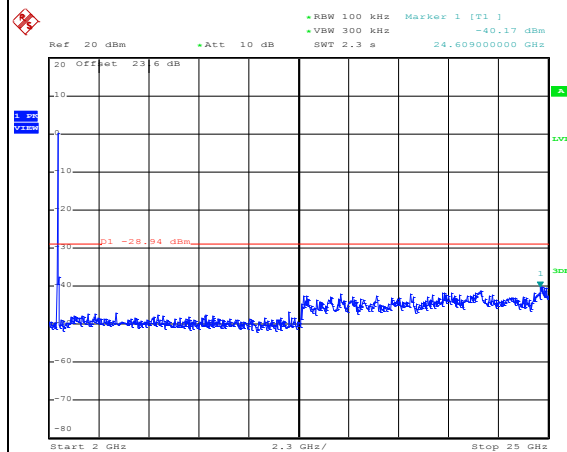
Number of TX :	1	Ant. :	2
Test Mode :	802.11ac VHT40	Temperature :	21~25°C
Test Band :	2.4GHz Mid	Relative Humidity :	51~54%
Test Channel :	06	Test Engineer :	Tommy Lee and Luffy Lin

WLAN 802.11ac VHT40 Channel 06**100kHz PSD reference Level**

Date: 2.JUL.2016 16:16:08

Spurious Emission 30MHz~3GHz

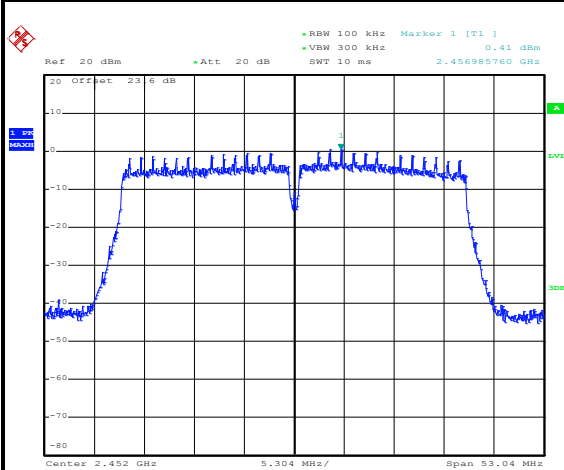
Date: 2.JUL.2016 16:16:39

Spurious Emission 2GHz~25GHz

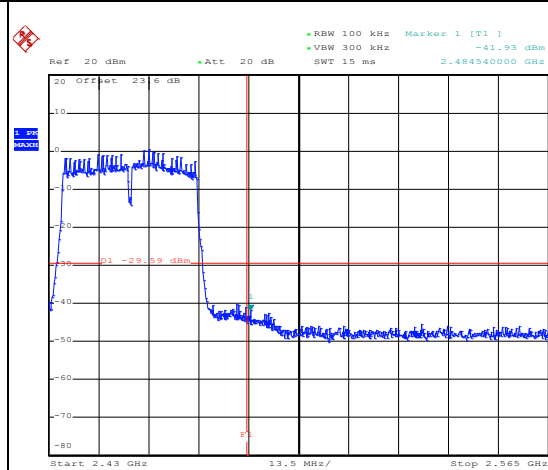
Date: 2.JUL.2016 16:16:48



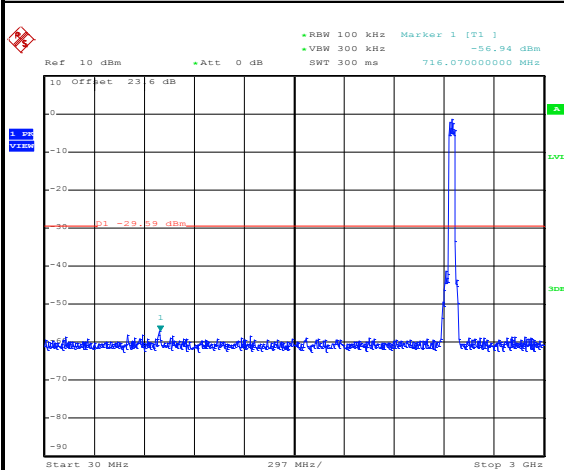
Number of TX :	1	Ant. :	2
Test Mode :	802.11ac VHT40	Temperature :	21~25°C
Test Band :	2.4GHz High	Relative Humidity :	51~54%
Test Channel :	09	Test Engineer :	Tommy Lee and Luffy Lin

WLAN 802.11ac VHT40 Channel 09**100kHz PSD reference Level**

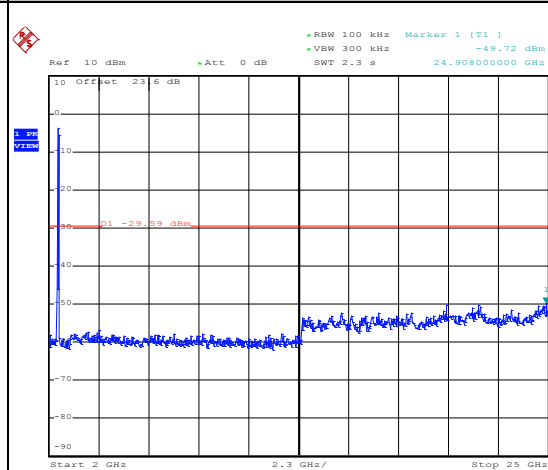
Date: 19.JUL.2016 00:51:40

High Channel Plot

Date: 19.JUL.2016 00:55:59

Spurious Emission 30MHz~3GHz

Date: 19.JUL.2016 00:56:17

Spurious Emission 2GHz~25GHz

Date: 19.JUL.2016 00:56:25

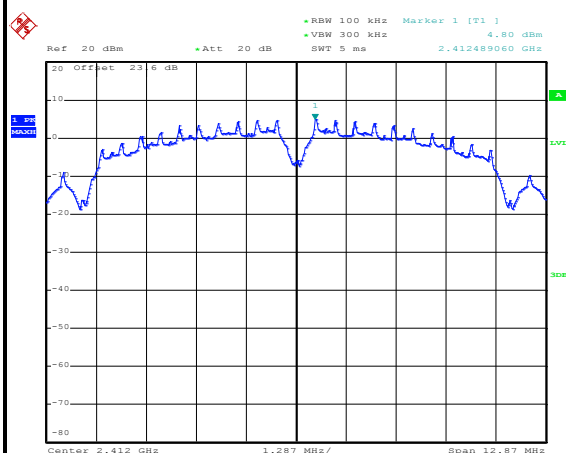


Number of TX = 2, Ant. 1 (Measured)

Number of TX	2	Ant. :	1
Test Mode :	802.11b	Temperature :	21~25°C
Test Band :	2.4GHz Low	Relative Humidity :	51~54%
Test Channel :	01	Test Engineer :	Tommy Lee and Luffy Lin

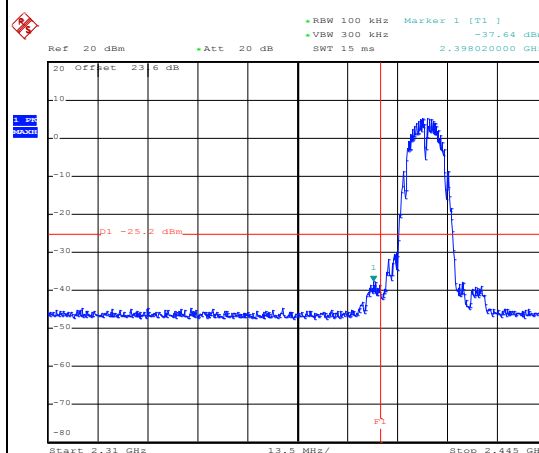
WLAN 802.11b Channel 01

100kHz PSD reference Level



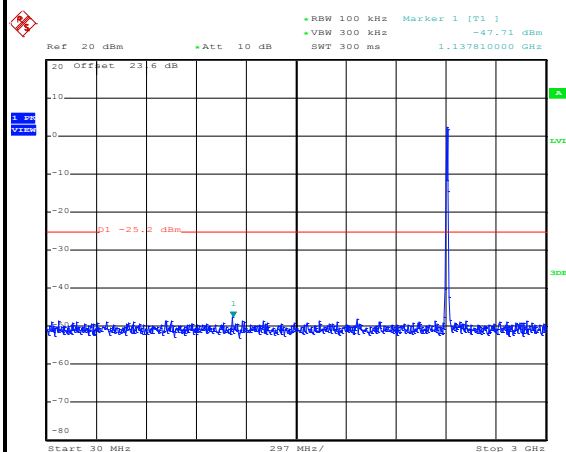
Date: 2.JUL.2016 10:08:55

Low Channel Plot



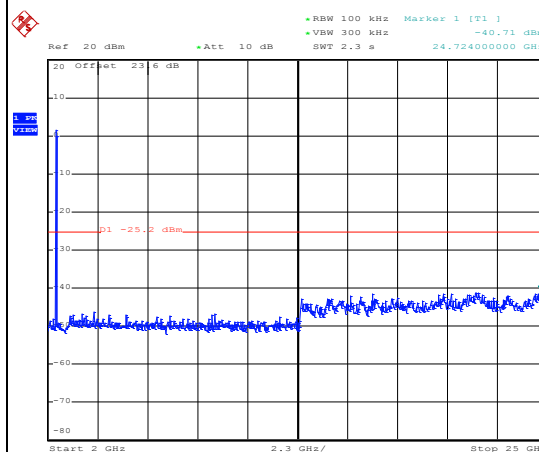
Date: 2.JUL.2016 10:14:09

Spurious Emission 30MHz~3GHz



Date: 2.JUL.2016 10:14:25

Spurious Emission 2GHz~25GHz



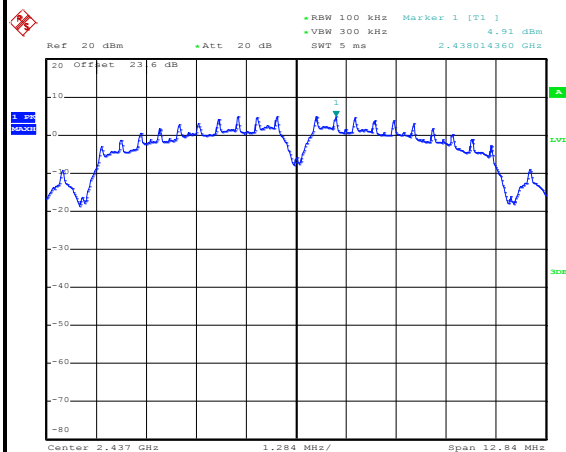
Date: 2.JUL.2016 10:14:34



Number of TX :	2	Ant. :	1
Test Mode :	802.11b	Temperature :	21~25°C
Test Band :	2.4GHz Mid	Relative Humidity :	51~54%
Test Channel :	06	Test Engineer :	Tommy Lee and Luffy Lin

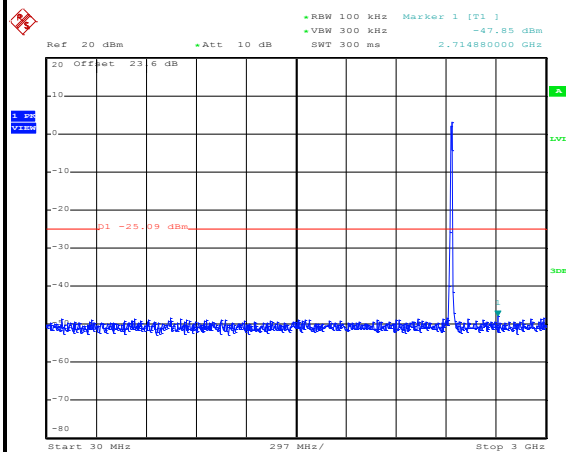
WLAN 802.11b Channel 06

100kHz PSD reference Level



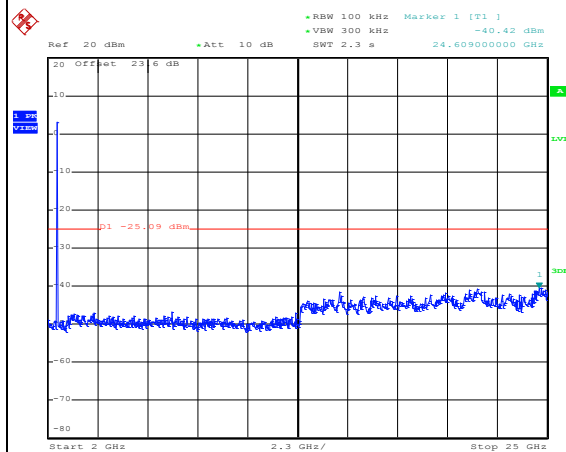
Date: 2.JUL.2016 10:30:55

Spurious Emission 30MHz~3GHz



Date: 2.JUL.2016 10:31:20

Spurious Emission 2GHz~25GHz



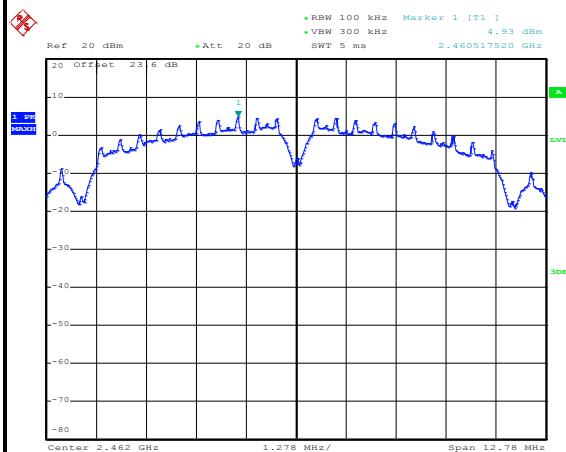
Date: 2.JUL.2016 10:31:28



Number of TX :	2	Ant. :	1
Test Mode :	802.11b	Temperature :	21~25°C
Test Band :	2.4GHz High	Relative Humidity :	51~54%
Test Channel :	11	Test Engineer :	Tommy Lee and Luffy Lin

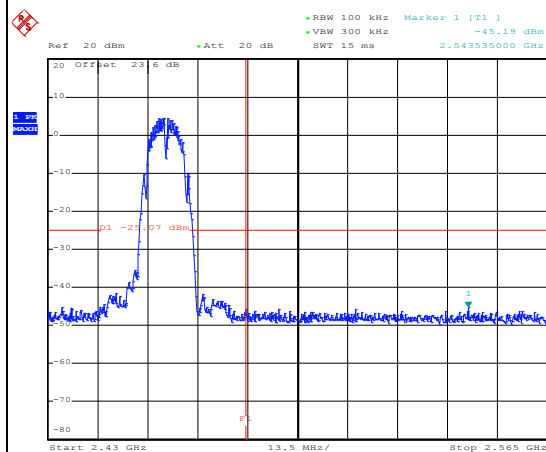
WLAN 802.11b Channel 11

100kHz PSD reference Level



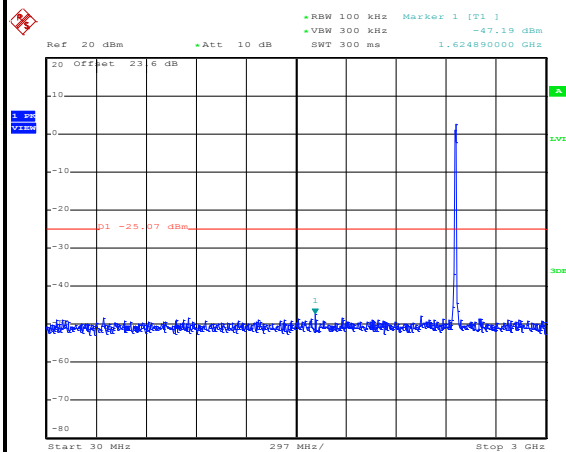
Date: 2.JUL.2016 10:44:03

High Channel Plot



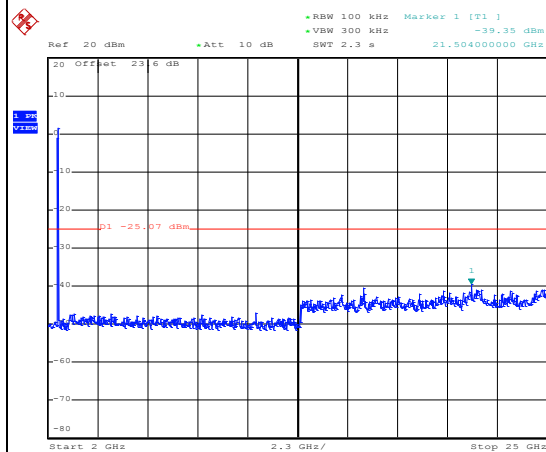
Date: 2.JUL.2016 10:45:44

Spurious Emission 30MHz~3GHz



Date: 2.JUL.2016 10:46:26

Spurious Emission 2GHz~25GHz



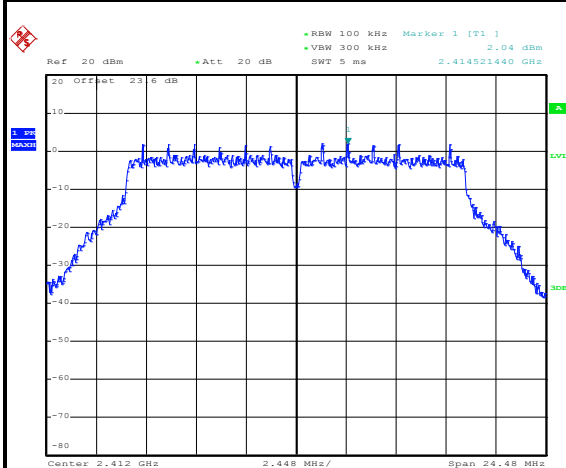
Date: 2.JUL.2016 10:46:34



Number of TX :	2	Ant. :	1
Test Mode :	802.11g	Temperature :	21~25°C
Test Band :	2.4GHz Low	Relative Humidity :	51~54%
Test Channel :	01	Test Engineer :	Tommy Lee and Luffy Lin

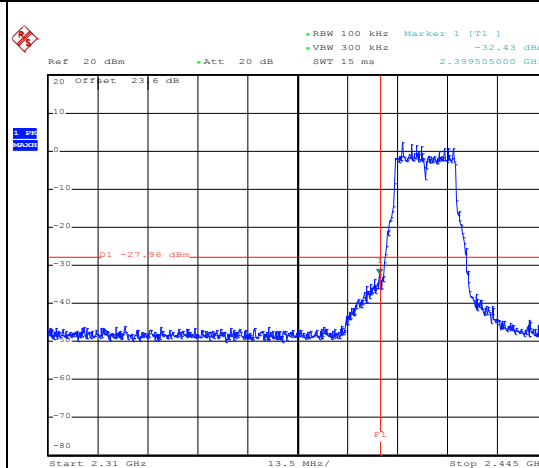
WLAN 802.11g Channel 01

100kHz PSD reference Level



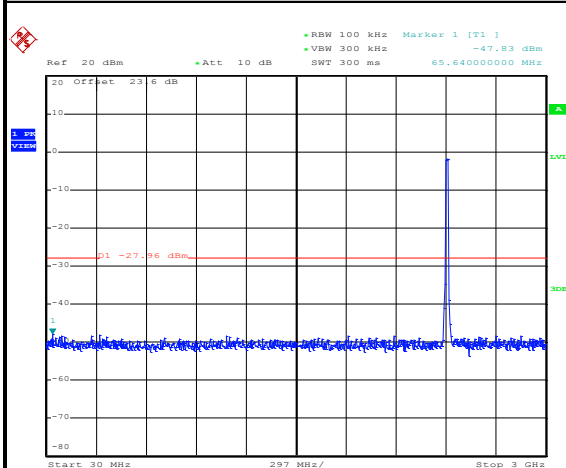
Date: 2.JUL.2016 11:22:24

Low Channel Plot



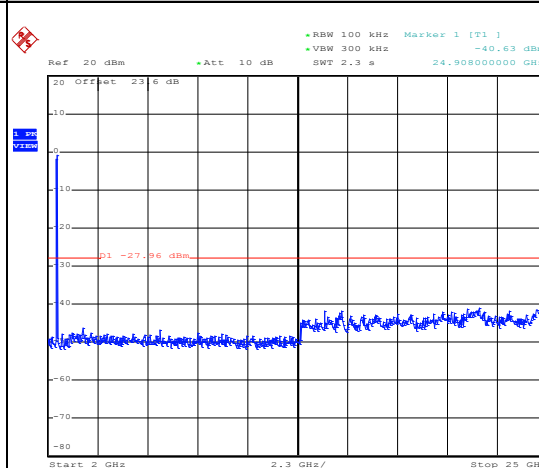
Date: 2.JUL.2016 11:22:53

Spurious Emission 30MHz~3GHz



Date: 2.JUL.2016 11:23:07

Spurious Emission 2GHz~25GHz



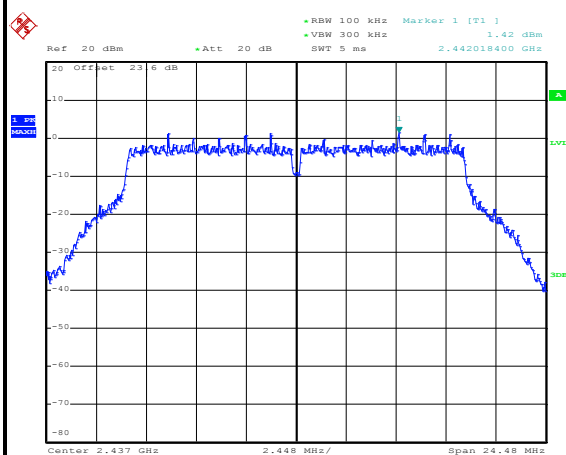
Date: 2.JUL.2016 11:23:15



Number of TX :	2	Ant. :	1
Test Mode :	802.11g	Temperature :	21~25°C
Test Band :	2.4GHz Mid	Relative Humidity :	51~54%
Test Channel :	06	Test Engineer :	Tommy Lee and Luffy Lin

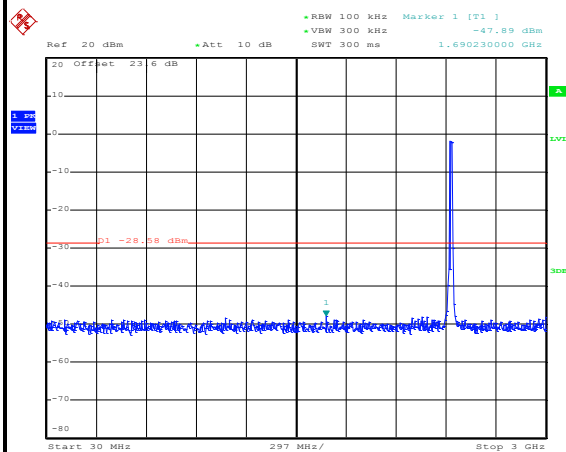
WLAN 802.11g Channel 06

100kHz PSD reference Level



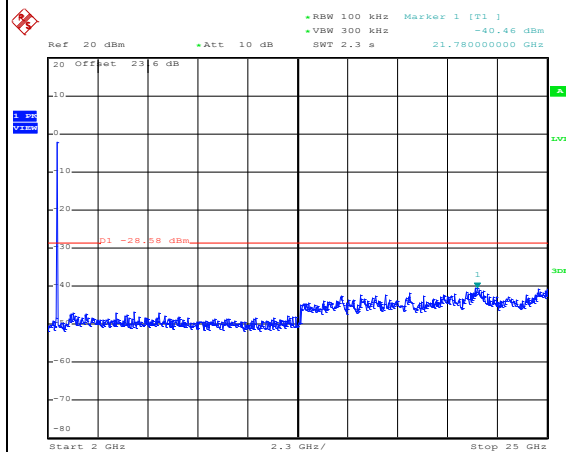
Date: 2.JUL.2016 11:32:18

Spurious Emission 30MHz~3GHz



Date: 2.JUL.2016 11:32:57

Spurious Emission 2GHz~25GHz



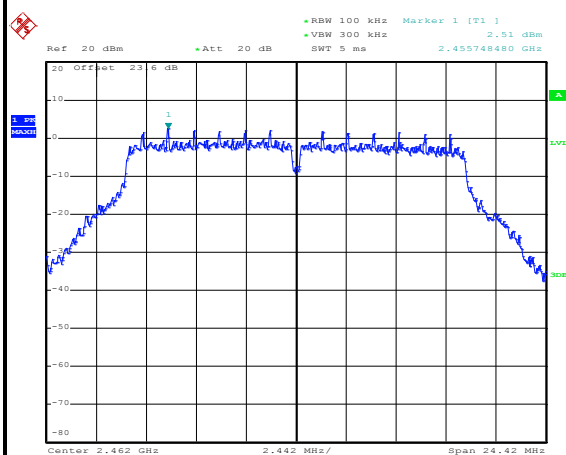
Date: 2.JUL.2016 11:33:05



Number of TX :	2	Ant. :	1
Test Mode :	802.11g	Temperature :	21~25°C
Test Band :	2.4GHz High	Relative Humidity :	51~54%
Test Channel :	11	Test Engineer :	Tommy Lee and Luffy Lin

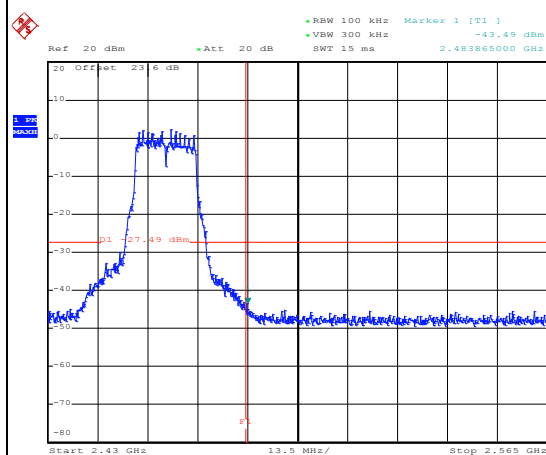
WLAN 802.11g Channel 11

100kHz PSD reference Level



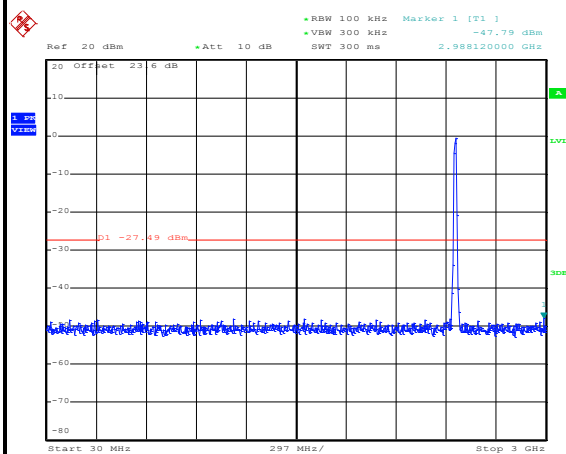
Date: 2.JUL.2016 11:49:34

High Channel Plot



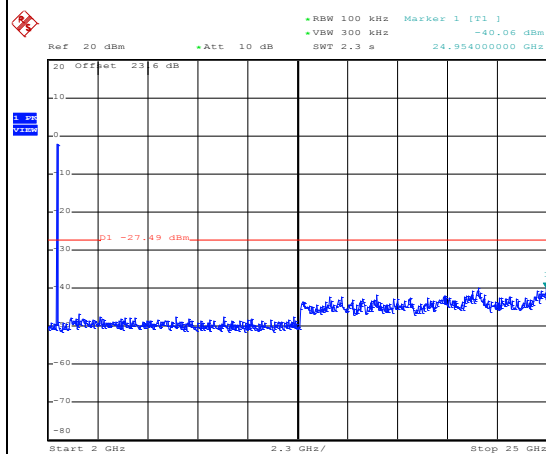
Date: 2.JUL.2016 11:52:29

Spurious Emission 30MHz~3GHz



Date: 2.JUL.2016 11:52:43

Spurious Emission 2GHz~25GHz



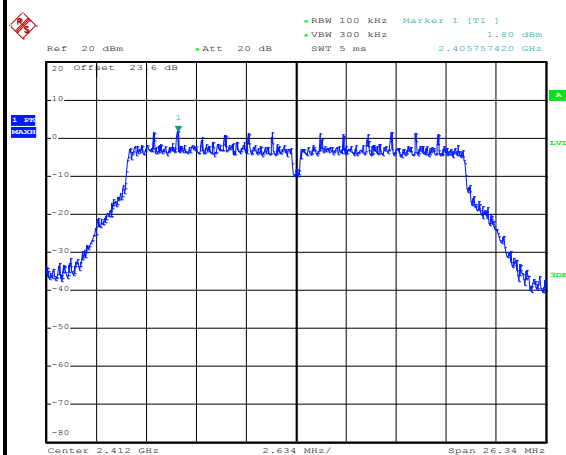
Date: 2.JUL.2016 11:52:52



Number of TX :	2	Ant. :	1
Test Mode :	802.11n HT20	Temperature :	21~25°C
Test Band :	2.4GHz Low	Relative Humidity :	51~54%
Test Channel :	01	Test Engineer :	Tommy Lee and Luffy Lin

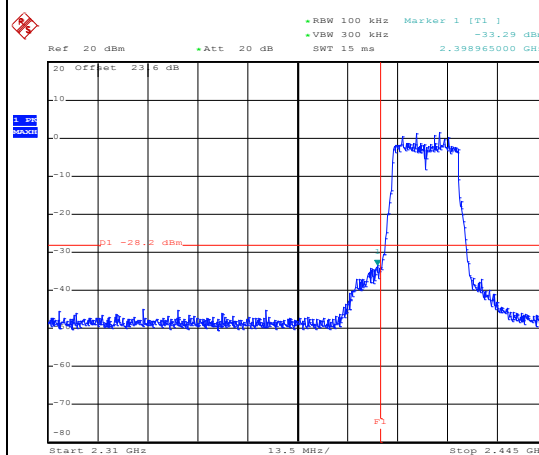
WLAN 802.11n HT20 Channel 01

100kHz PSD reference Level



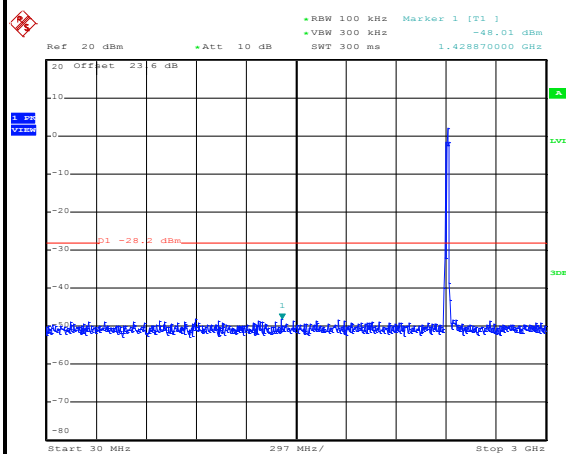
Date: 2.JUL.2016 13:04:16

Low Channel Plot



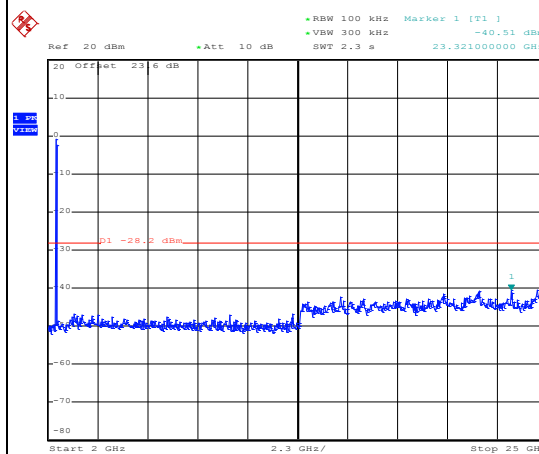
Date: 2.JUL.2016 13:06:30

Spurious Emission 30MHz~3GHz



Date: 2.JUL.2016 13:06:44

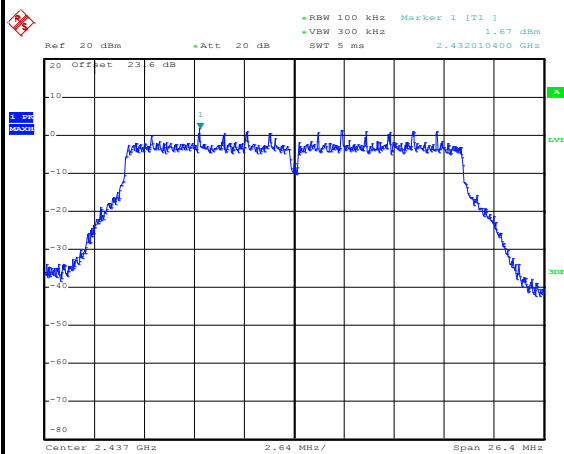
Spurious Emission 2GHz~25GHz



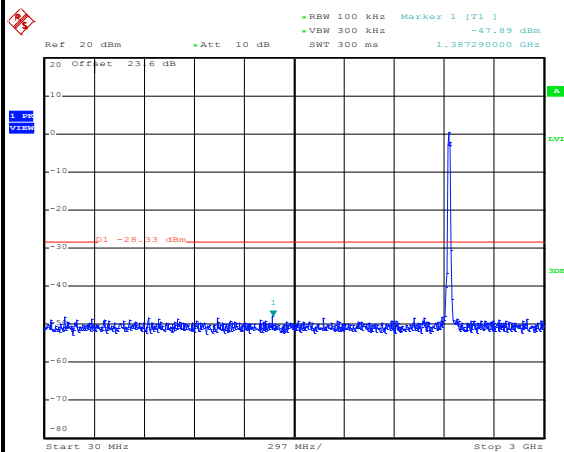
Date: 2.JUL.2016 13:06:52



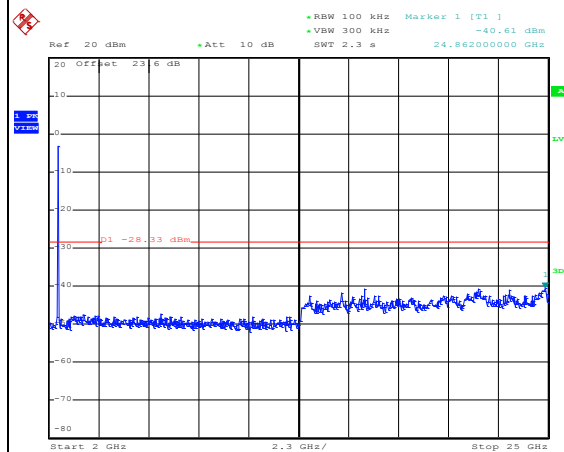
Number of TX :	2	Ant. :	1
Test Mode :	802.11n HT20	Temperature :	21~25°C
Test Band :	2.4GHz Mid	Relative Humidity :	51~54%
Test Channel :	06	Test Engineer :	Tommy Lee and Luffy Lin

WLAN 802.11n HT20 Channel 06**100kHz PSD reference Level**

Date: 2.JUL.2016 13:17:47

Spurious Emission 30MHz~3GHz

Date: 2.JUL.2016 13:18:18

Spurious Emission 2GHz~25GHz

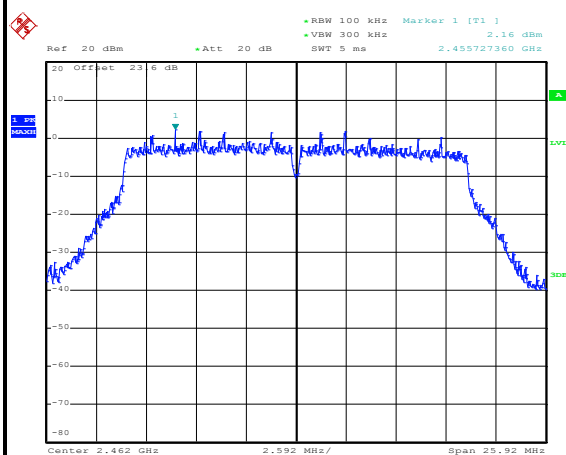
Date: 2.JUL.2016 13:18:26



Number of TX :	2	Ant. :	1
Test Mode :	802.11n HT20	Temperature :	21~25°C
Test Band :	2.4GHz High	Relative Humidity :	51~54%
Test Channel :	11	Test Engineer :	Tommy Lee and Luffy Lin

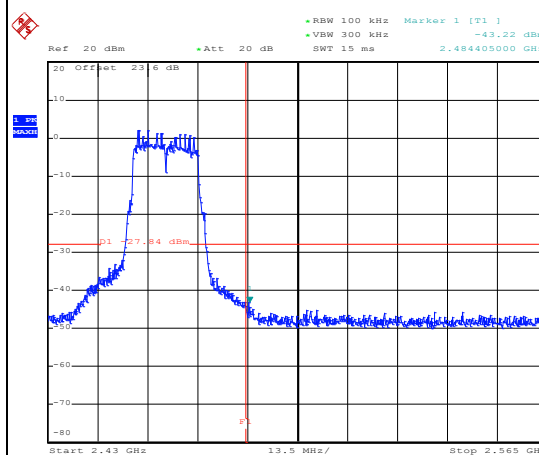
WLAN 802.11n HT20 Channel 11

100kHz PSD reference Level



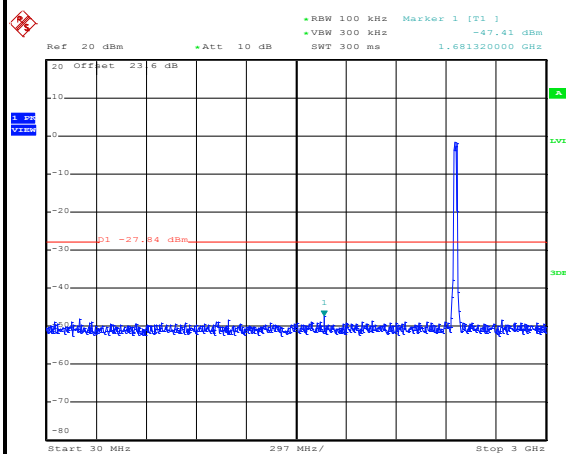
Date: 2.JUL.2016 13:38:26

High Channel Plot



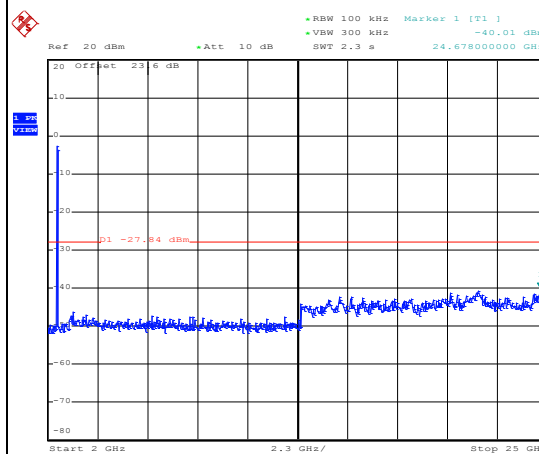
Date: 2.JUL.2016 13:39:12

Spurious Emission 30MHz~3GHz



Date: 2.JUL.2016 13:39:30

Spurious Emission 2GHz~25GHz



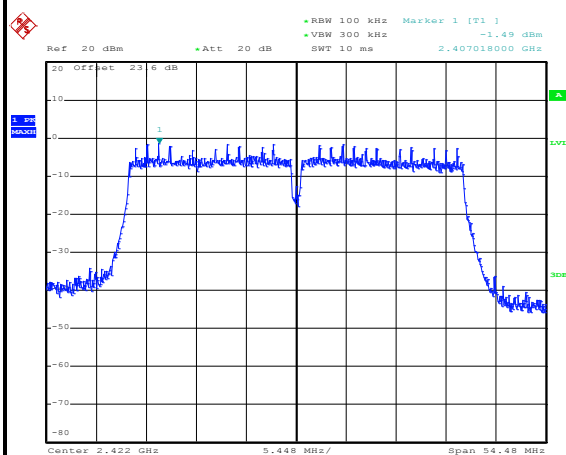
Date: 2.JUL.2016 13:39:38



Number of TX :	2	Ant. :	1
Test Mode :	802.11n HT40	Temperature :	21~25°C
Test Band :	2.4GHz Low	Relative Humidity :	51~54%
Test Channel :	03	Test Engineer :	Tommy Lee and Luffy Lin

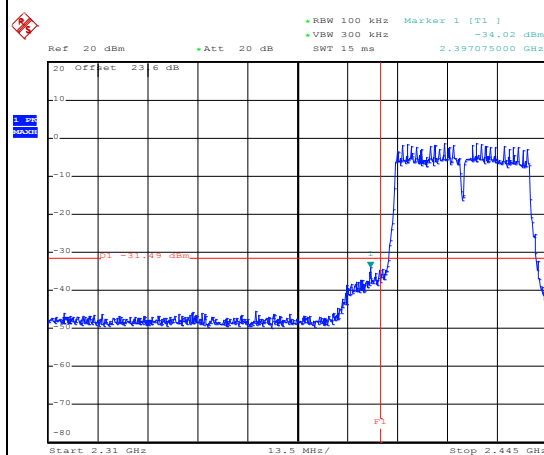
WLAN 802.11n HT40 Channel 03

100kHz PSD reference Level



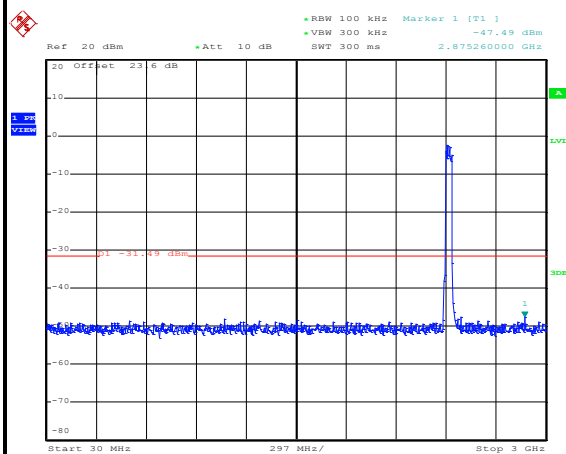
Date: 2.JUL.2016 14:08:34

Low Channel Plot



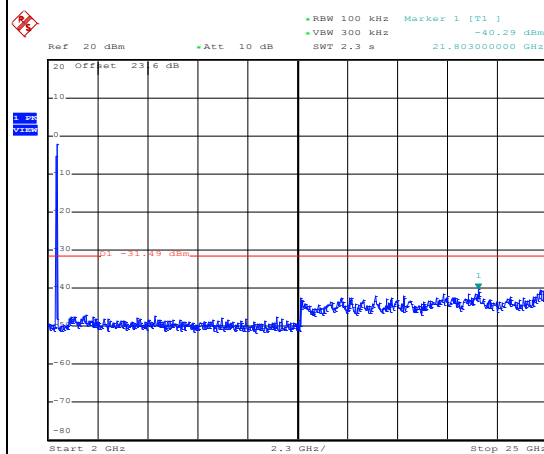
Date: 2.JUL.2016 14:09:05

Spurious Emission 30MHz~3GHz



Date: 2.JUL.2016 14:09:29

Spurious Emission 2GHz~25GHz



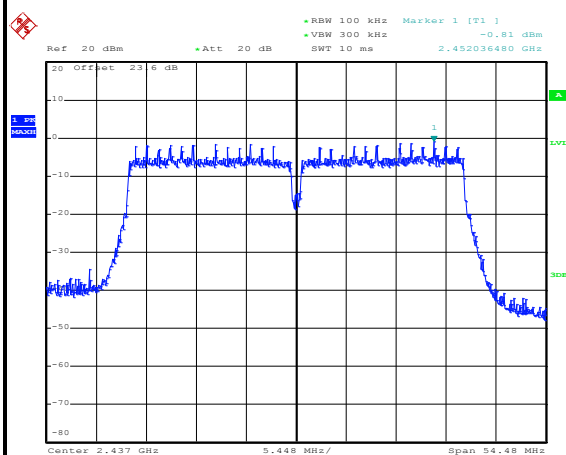
Date: 2.JUL.2016 14:09:37



Number of TX :	2	Ant. :	1
Test Mode :	802.11n HT40	Temperature :	21~25°C
Test Band :	2.4GHz Mid	Relative Humidity :	51~54%
Test Channel :	06	Test Engineer :	Tommy Lee and Luffy Lin

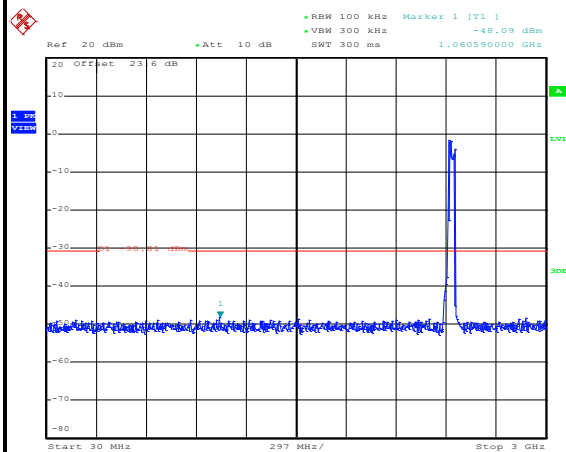
WLAN 802.11n HT40 Channel 06

100kHz PSD reference Level



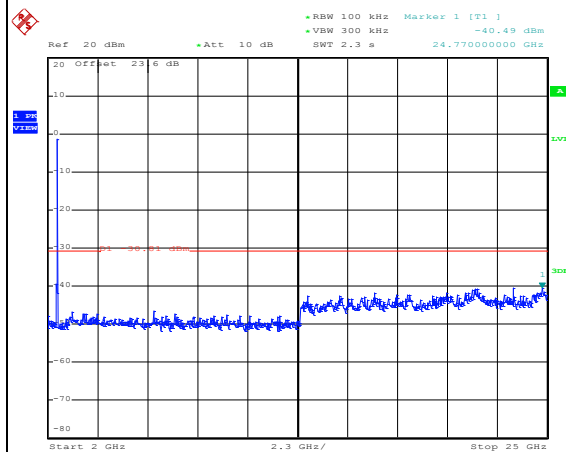
Date: 2.JUL.2016 14:18:00

Spurious Emission 30MHz~3GHz



Date: 2.JUL.2016 14:18:40

Spurious Emission 2GHz~25GHz



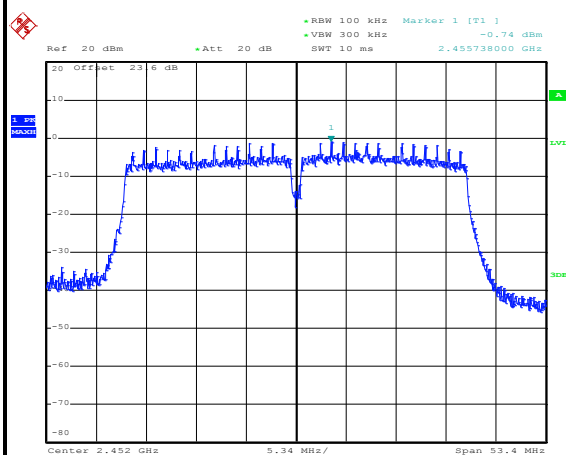
Date: 2.JUL.2016 14:18:49



Number of TX :	2	Ant. :	1
Test Mode :	802.11n HT40	Temperature :	21~25°C
Test Band :	2.4GHz High	Relative Humidity :	51~54%
Test Channel :	09	Test Engineer :	Tommy Lee and Luffy Lin

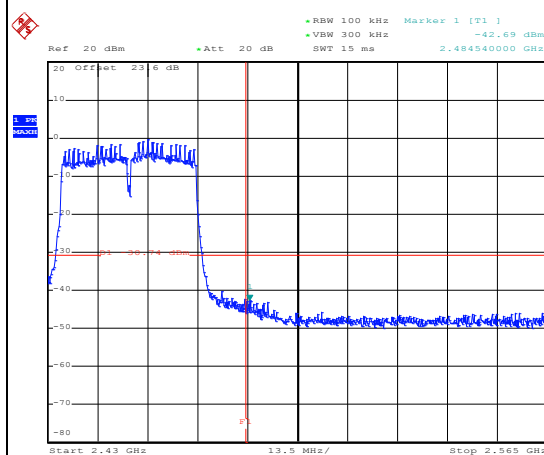
WLAN 802.11n HT40 Channel 09

100kHz PSD reference Level



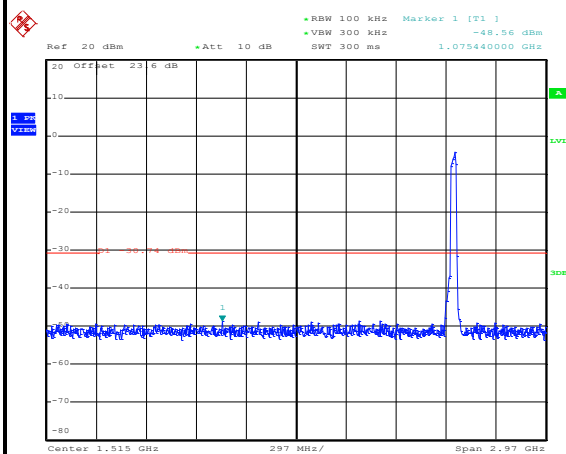
Date: 2.JUL.2016 14:35:46

High Channel Plot



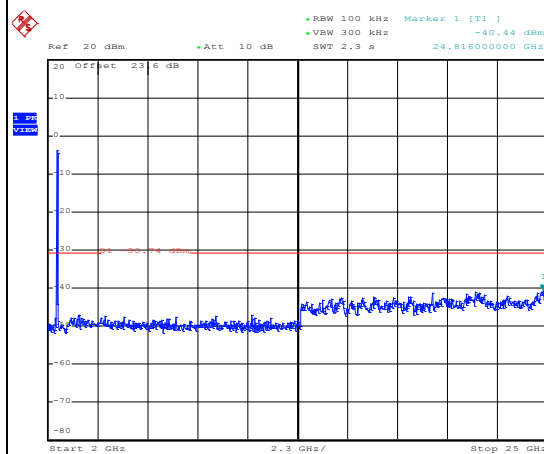
Date: 2.JUL.2016 14:36:08

Spurious Emission 30MHz~3GHz



Date: 2.JUL.2016 14:37:38

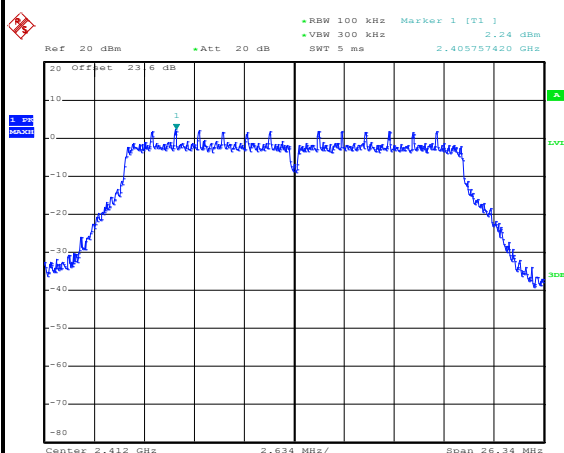
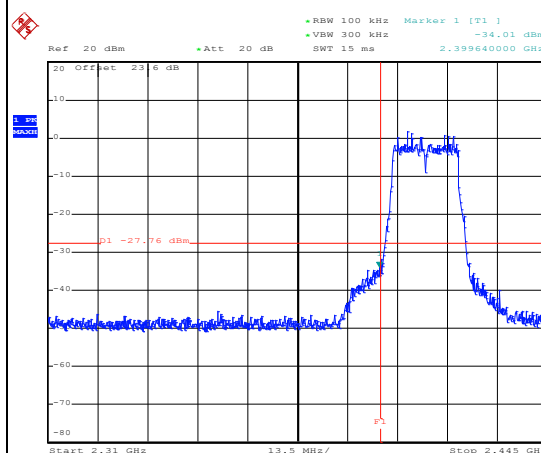
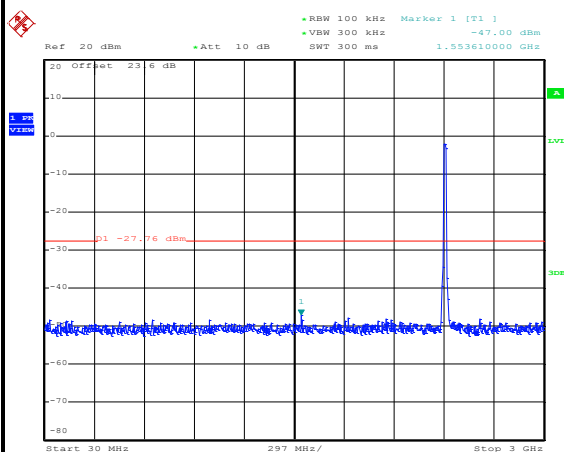
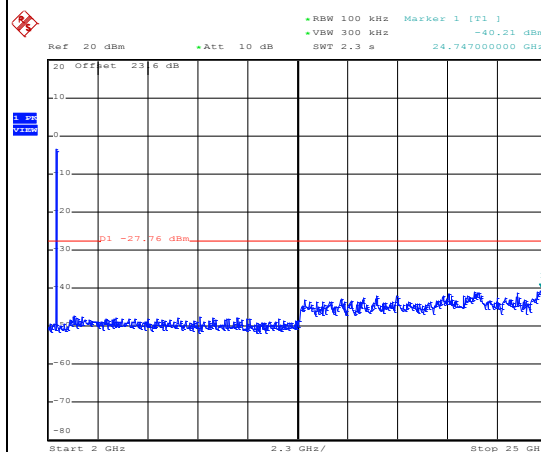
Spurious Emission 2GHz~25GHz



Date: 2.JUL.2016 14:37:46

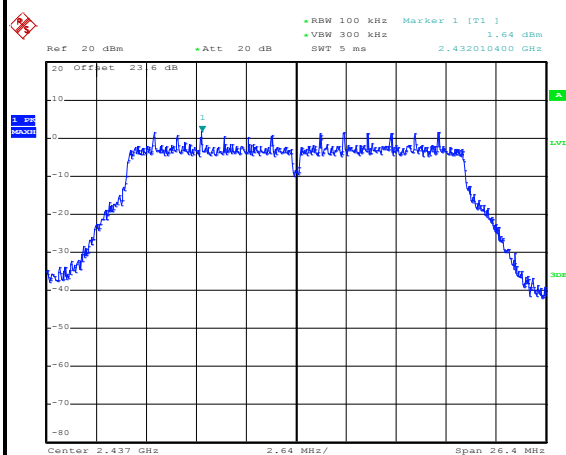


Number of TX :	2	Ant. :	1
Test Mode :	802.11ac VHT20	Temperature :	21~25°C
Test Band :	2.4GHz Low	Relative Humidity :	51~54%
Test Channel :	01	Test Engineer :	Tommy Lee and Luffy Lin

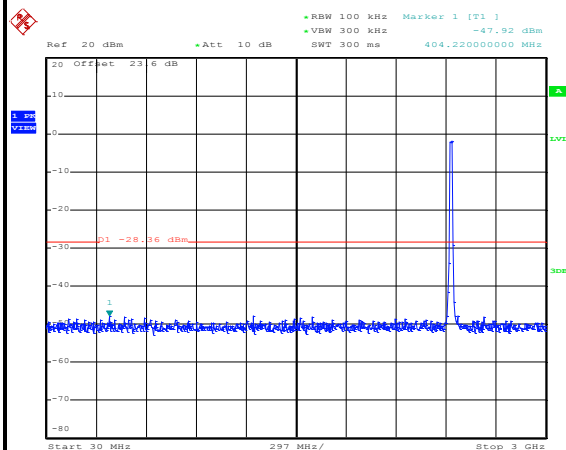
WLAN 802.11ac VHT20 Channel 01**100kHz PSD reference Level****Low Channel Plot****Spurious Emission 30MHz~3GHz****Spurious Emission 2GHz~25GHz**



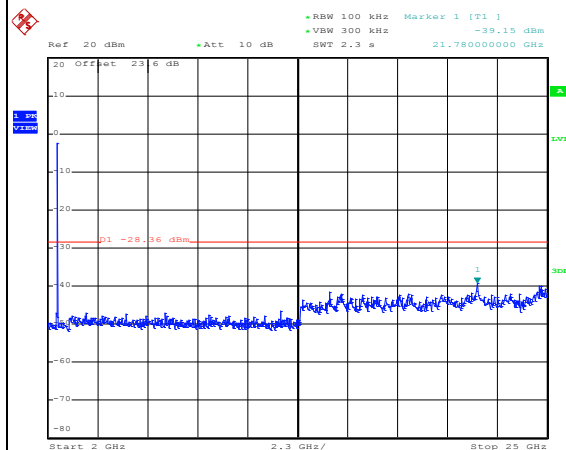
Number of TX :	2	Ant. :	1
Test Mode :	802.11ac VHT20	Temperature :	21~25°C
Test Band :	2.4GHz Mid	Relative Humidity :	51~54%
Test Channel :	06	Test Engineer :	Tommy Lee and Luffy Lin

WLAN 802.11ac VHT20 Channel 06**100kHz PSD reference Level**

Date: 2.JUL.2016 15:49:28

Spurious Emission 30MHz~3GHz

Date: 2.JUL.2016 15:50:08

Spurious Emission 2GHz~25GHz

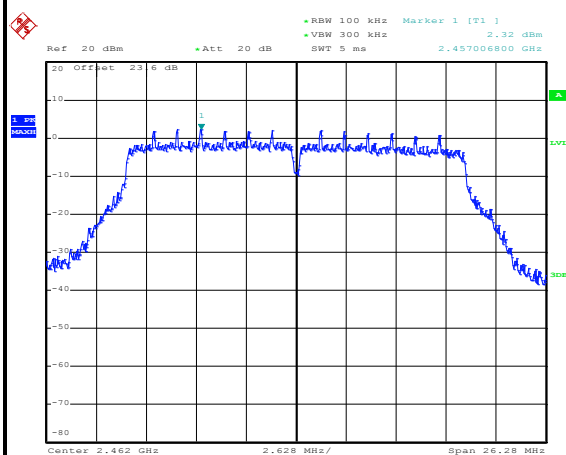
Date: 2.JUL.2016 15:50:17



Number of TX :	2	Ant. :	1
Test Mode :	802.11ac VHT20	Temperature :	21~25°C
Test Band :	2.4GHz High	Relative Humidity :	51~54%
Test Channel :	11	Test Engineer :	Tommy Lee and Luffy Lin

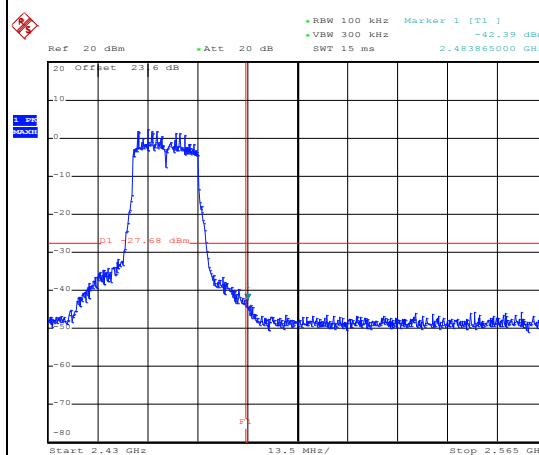
WLAN 802.11ac VHT20 Channel 11

100kHz PSD reference Level



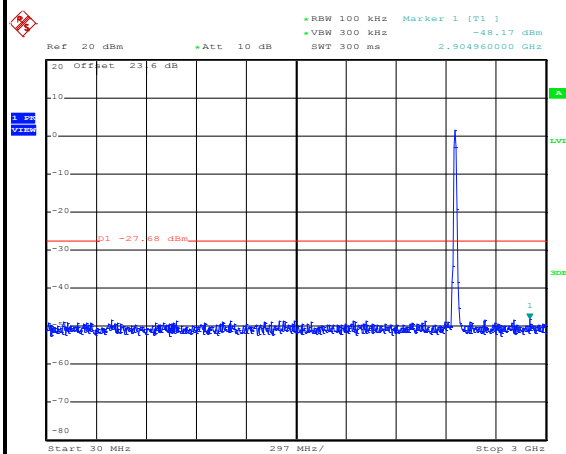
Date: 2.JUL.2016 15:56:04

High Channel Plot



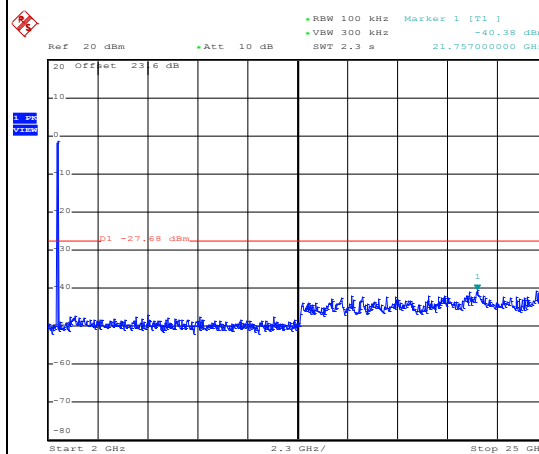
Date: 2.JUL.2016 15:56:28

Spurious Emission 30MHz~3GHz



Date: 2.JUL.2016 15:56:42

Spurious Emission 2GHz~25GHz



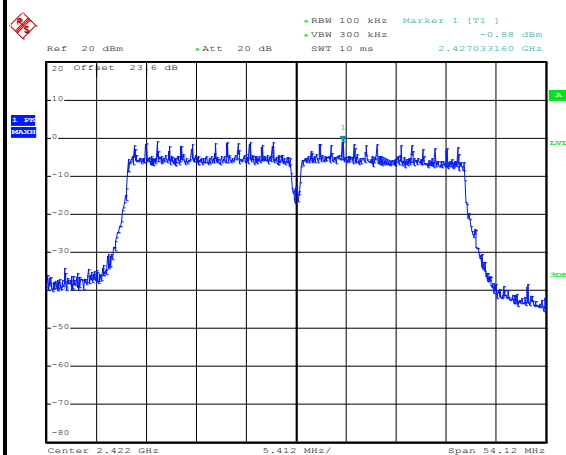
Date: 2.JUL.2016 15:56:50



Number of TX :	2	Ant. :	1
Test Mode :	802.11ac VHT40	Temperature :	21~25°C
Test Band :	2.4GHz Low	Relative Humidity :	51~54%
Test Channel :	03	Test Engineer :	Tommy Lee and Luffy Lin

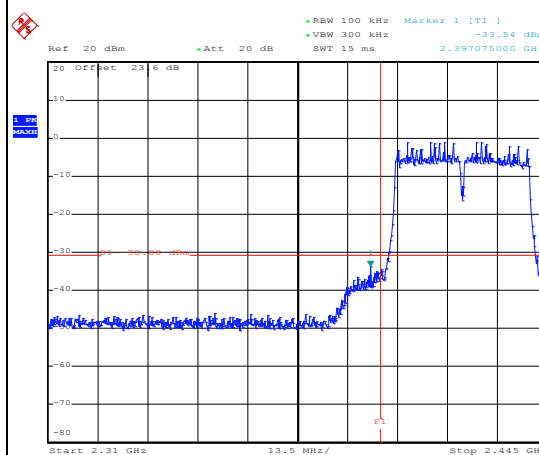
WLAN 802.11ac VHT40 Channel 03

100kHz PSD reference Level



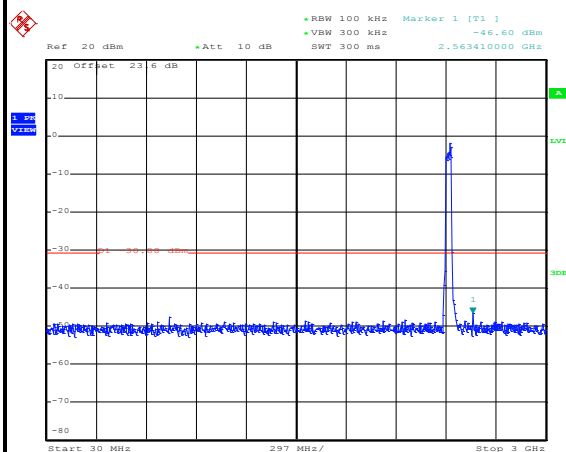
Date: 2.JUL.2016 16:36:49

Low Channel Plot



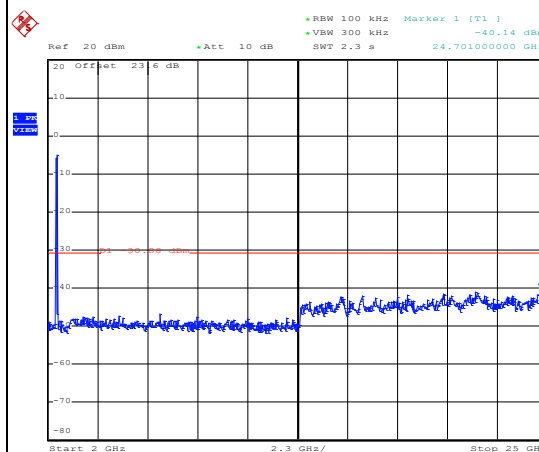
Date: 2.JUL.2016 16:55:04

Spurious Emission 30MHz~3GHz



Date: 2.JUL.2016 16:55:19

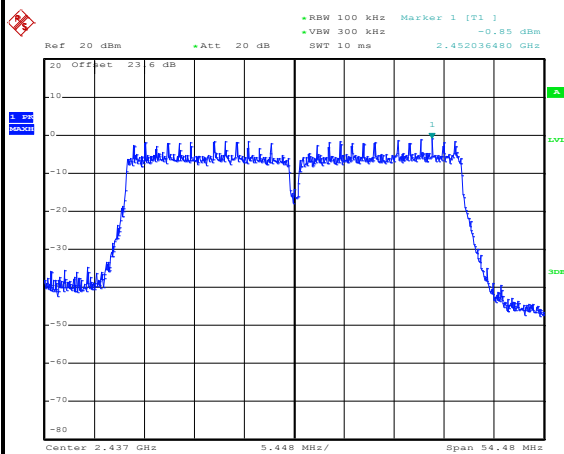
Spurious Emission 2GHz~25GHz



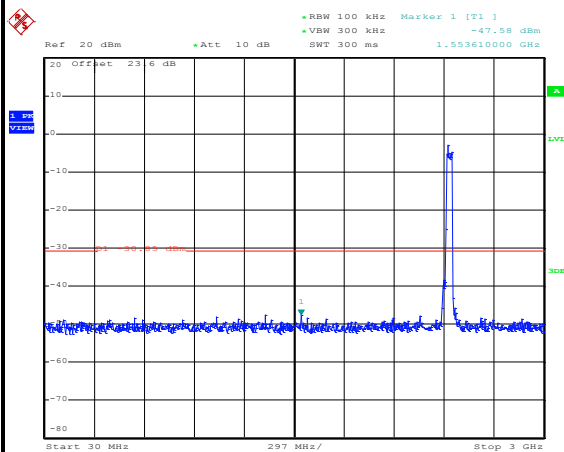
Date: 2.JUL.2016 16:55:28



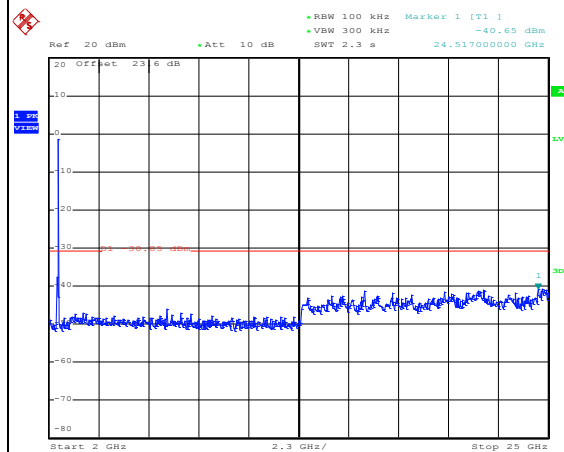
Number of TX :	2	Ant. :	1
Test Mode :	802.11ac VHT40	Temperature :	21~25°C
Test Band :	2.4GHz Mid	Relative Humidity :	51~54%
Test Channel :	06	Test Engineer :	Tommy Lee and Luffy Lin

WLAN 802.11ac VHT40 Channel 06**100kHz PSD reference Level**

Date: 2.JUL.2016 17:03:24

Spurious Emission 30MHz~3GHz

Date: 2.JUL.2016 17:03:38

Spurious Emission 2GHz~25GHz

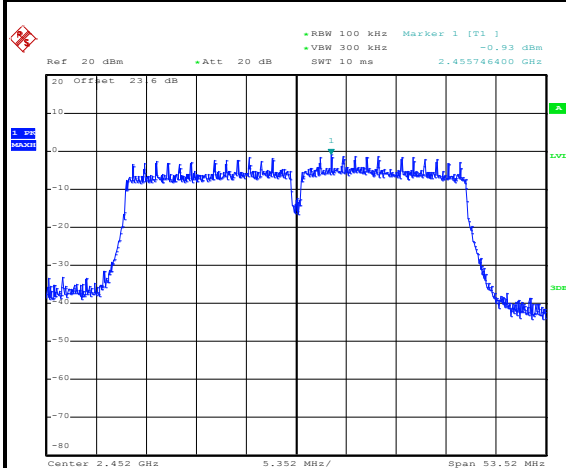
Date: 2.JUL.2016 17:03:47



Number of TX :	2	Ant. :	1
Test Mode :	802.11ac VHT40	Temperature :	21~25°C
Test Band :	2.4GHz High	Relative Humidity :	51~54%
Test Channel :	09	Test Engineer :	Tommy Lee and Luffy Lin

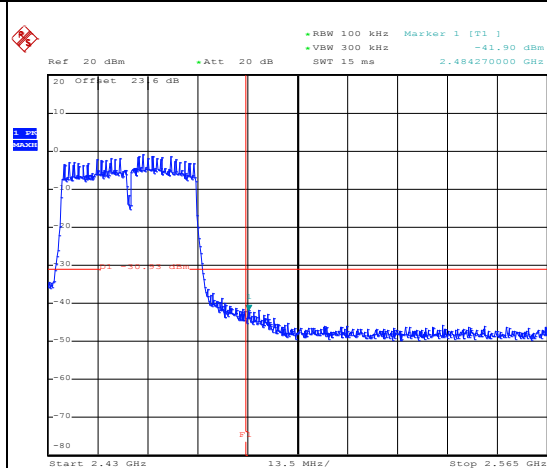
WLAN 802.11ac VHT40 Channel 09

100kHz PSD reference Level



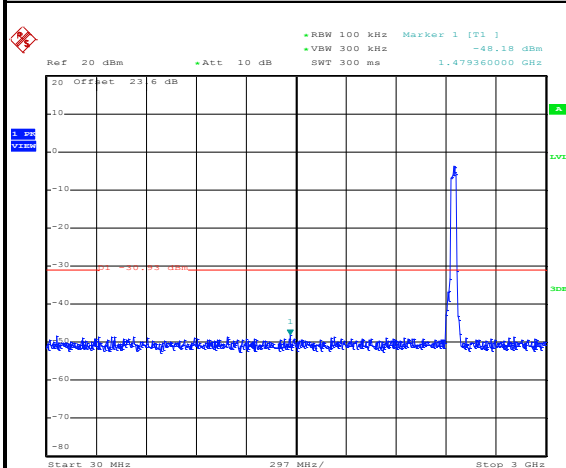
Date: 4.JUL.2016 09:22:54

High Channel Plot



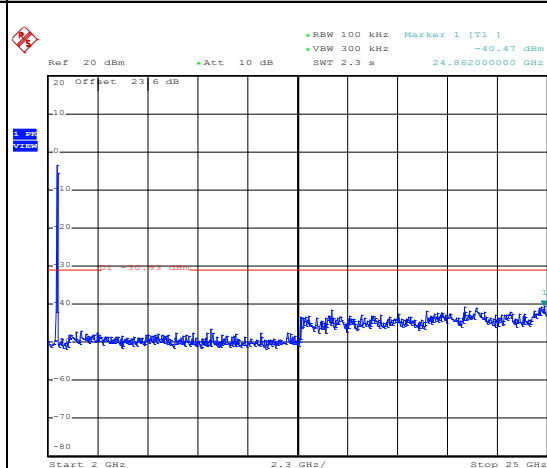
Date: 4.JUL.2016 09:23:22

Spurious Emission 30MHz~3GHz



Date: 4.JUL.2016 09:25:14

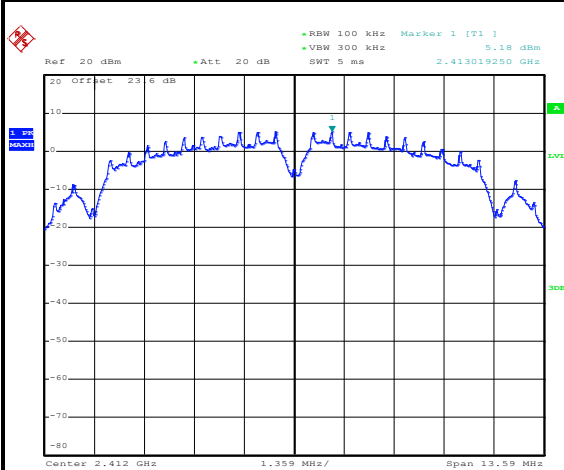
Spurious Emission 2GHz~25GHz



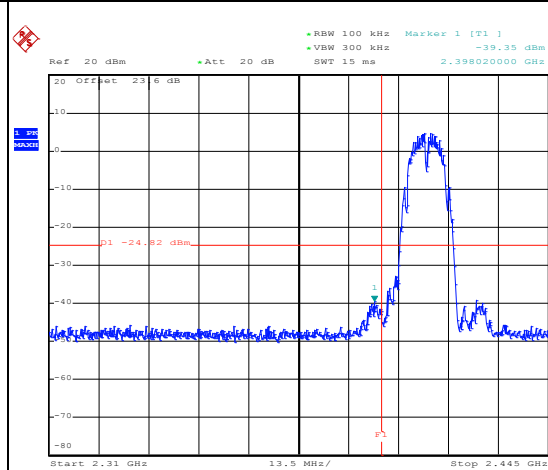
Date: 4.JUL.2016 09:25:22

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

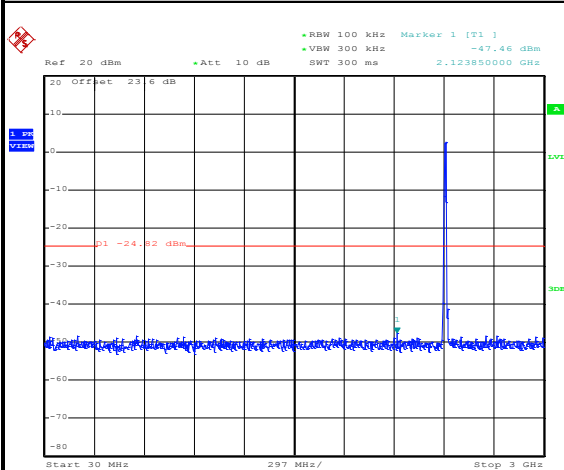
Number of TX :	2	Ant. :	2
Test Mode :	802.11b	Temperature :	21~25°C
Test Band :	2.4GHz Low	Relative Humidity :	51~54%
Test Channel :	01	Test Engineer :	Tommy Lee and Luffy Lin

WLAN 802.11b Channel 01**100kHz PSD reference Level**

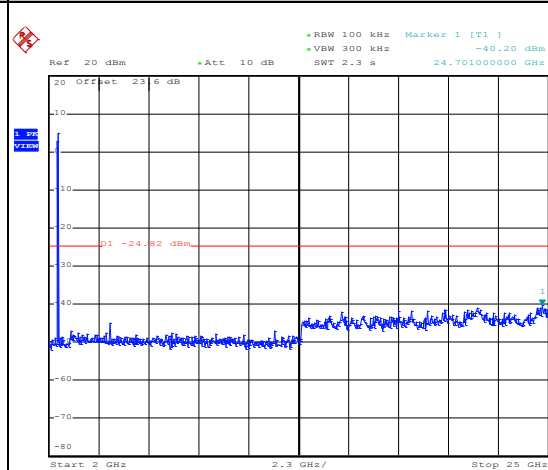
Date: 2.JUL.2016 10:22:11

Low Channel Plot

Date: 2.JUL.2016 10:26:17

Spurious Emission 30MHz~3GHz

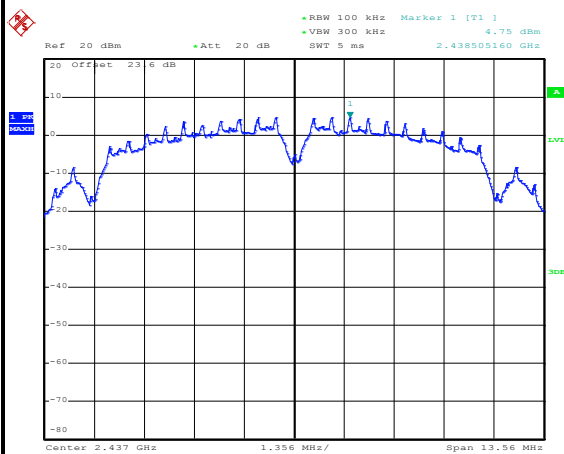
Date: 2.JUL.2016 10:26:30

Spurious Emission 2GHz~25GHz

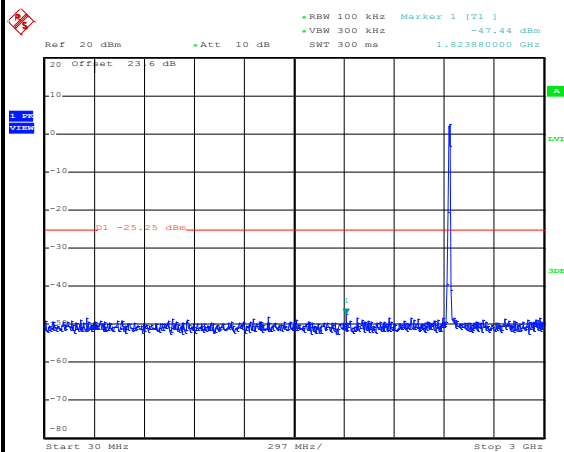
Date: 2.JUL.2016 10:26:38



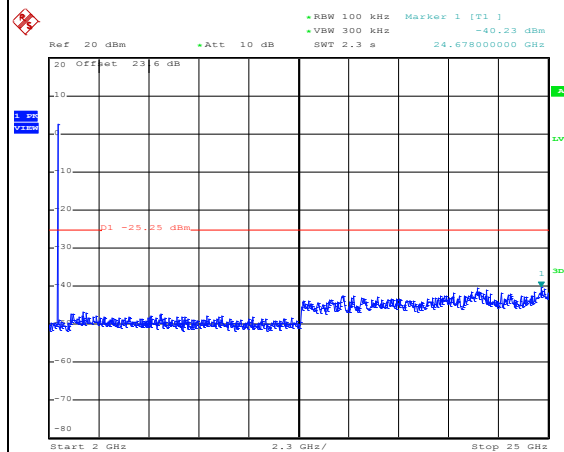
Number of TX :	2	Ant. :	2
Test Mode :	802.11b	Temperature :	21~25°C
Test Band :	2.4GHz Mid	Relative Humidity :	51~54%
Test Channel :	06	Test Engineer :	Tommy Lee and Luffy Lin

WLAN 802.11b Channel 06**100kHz PSD reference Level**

Date: 2.JUL.2016 10:37:51

Spurious Emission 30MHz~3GHz

Date: 2.JUL.2016 10:39:05

Spurious Emission 2GHz~25GHz

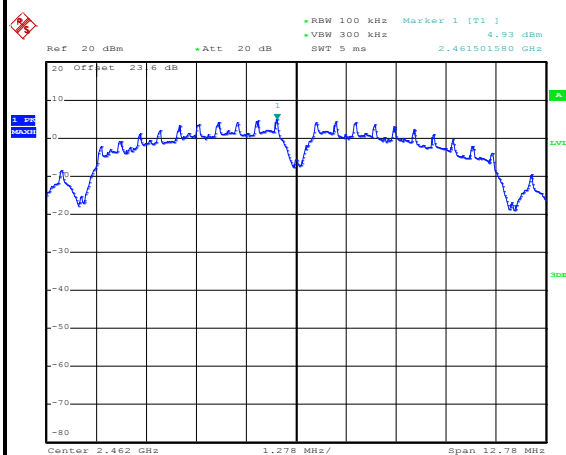
Date: 2.JUL.2016 10:39:14



Number of TX :	2	Ant. :	2
Test Mode :	802.11b	Temperature :	21~25°C
Test Band :	2.4GHz High	Relative Humidity :	51~54%
Test Channel :	11	Test Engineer :	Tommy Lee and Luffy Lin

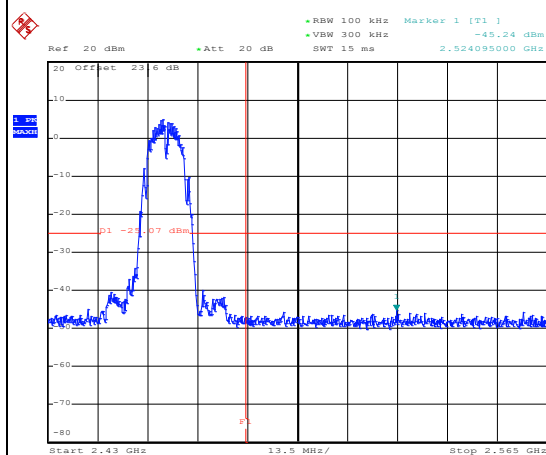
WLAN 802.11b Channel 11

100kHz PSD reference Level



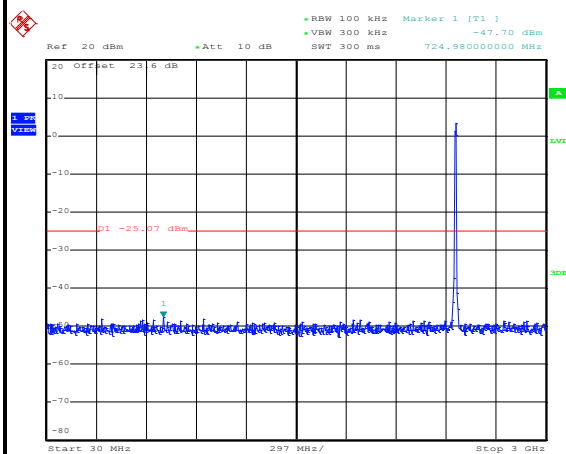
Date: 2.JUL.2016 10:50:47

High Channel Plot



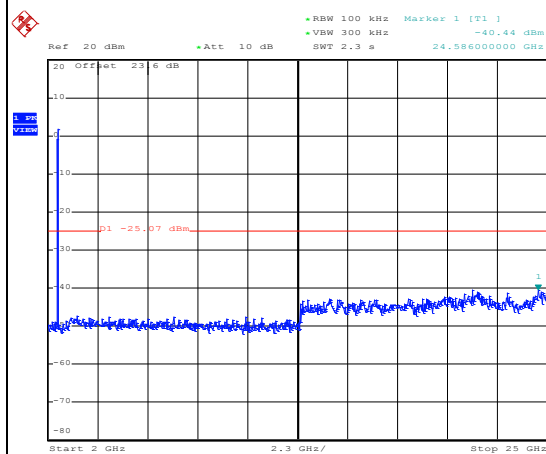
Date: 2.JUL.2016 10:51:18

Spurious Emission 30MHz~3GHz



Date: 2.JUL.2016 10:51:31

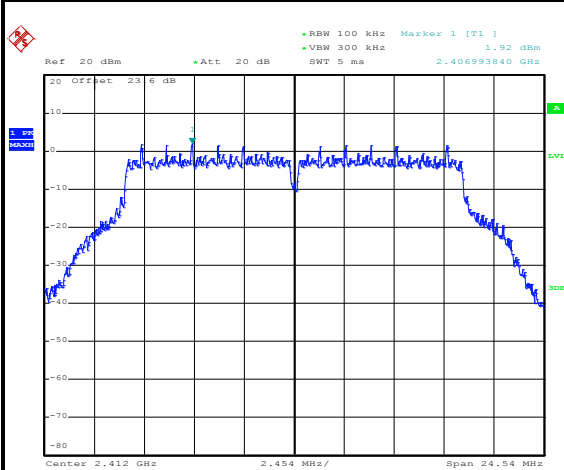
Spurious Emission 2GHz~25GHz



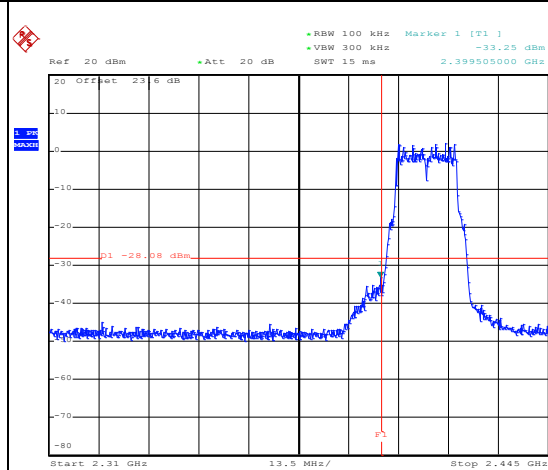
Date: 2.JUL.2016 10:51:39



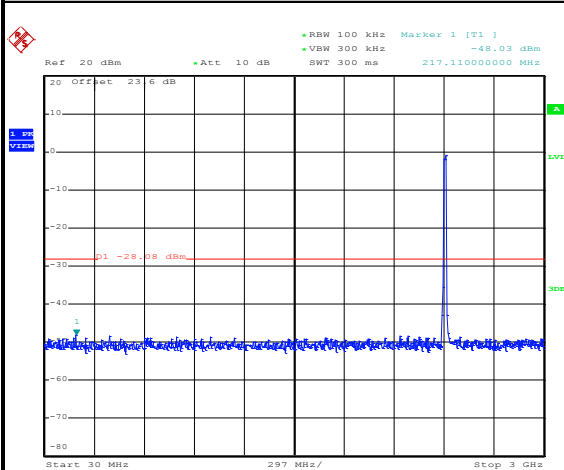
Number of TX :	2	Ant. :	2
Test Mode :	802.11g	Temperature :	21~25°C
Test Band :	2.4GHz Low	Relative Humidity :	51~54%
Test Channel :	01	Test Engineer :	Tommy Lee and Luffy Lin

WLAN 802.11g Channel 01**100kHz PSD reference Level**

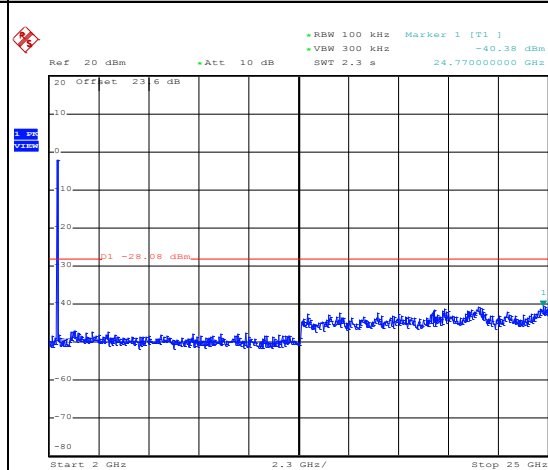
Date: 2.JUL.2016 11:25:47

Low Channel Plot

Date: 2.JUL.2016 11:27:54

Spurious Emission 30MHz~3GHz

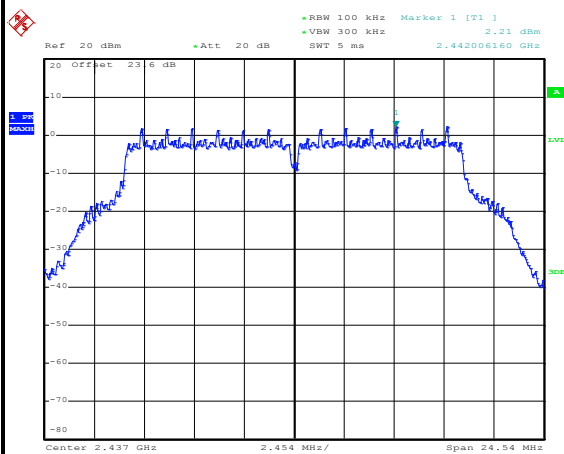
Date: 2.JUL.2016 11:28:07

Spurious Emission 2GHz~25GHz

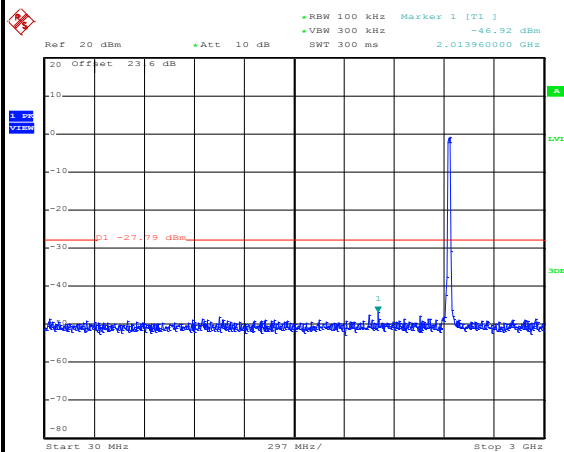
Date: 2.JUL.2016 11:28:16



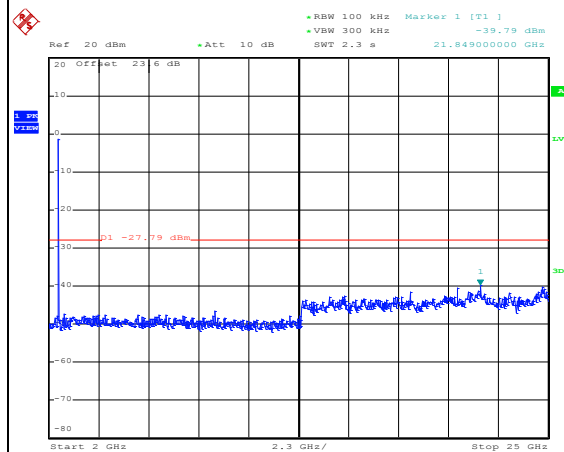
Number of TX :	2	Ant. :	2
Test Mode :	802.11g	Temperature :	21~25°C
Test Band :	2.4GHz Mid	Relative Humidity :	51~54%
Test Channel :	06	Test Engineer :	Tommy Lee and Luffy Lin

WLAN 802.11g Channel 06**100kHz PSD reference Level**

Date: 2.JUL.2016 11:38:49

Spurious Emission 30MHz~3GHz

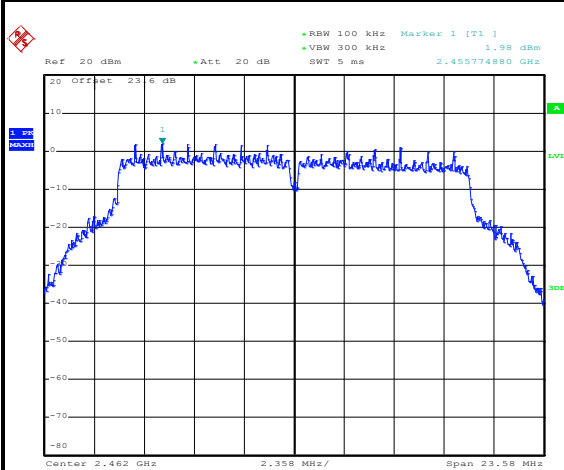
Date: 2.JUL.2016 11:39:14

Spurious Emission 2GHz~25GHz

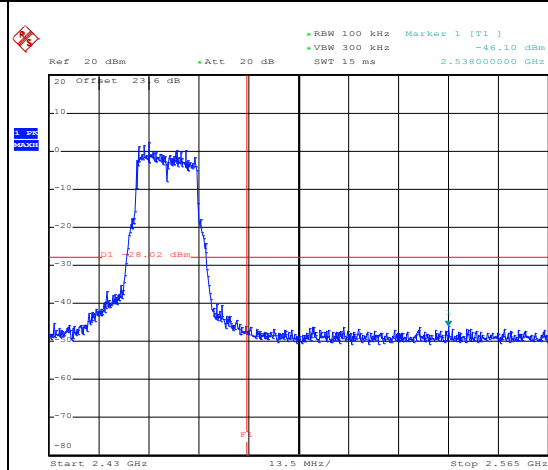
Date: 2.JUL.2016 11:39:22



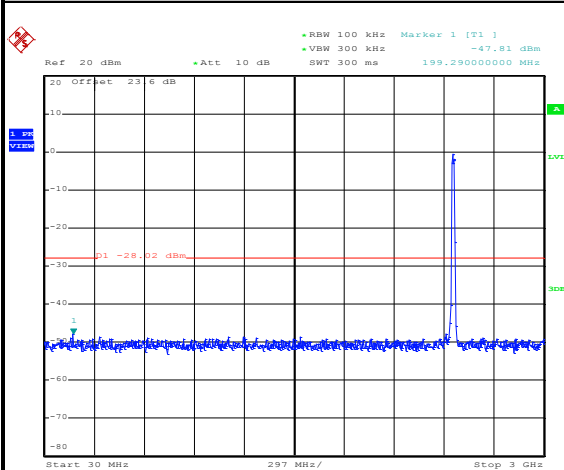
Number of TX :	2	Ant. :	2
Test Mode :	802.11g	Temperature :	21~25°C
Test Band :	2.4GHz High	Relative Humidity :	51~54%
Test Channel :	11	Test Engineer :	Tommy Lee and Luffy Lin

WLAN 802.11g Channel 11**100kHz PSD reference Level**

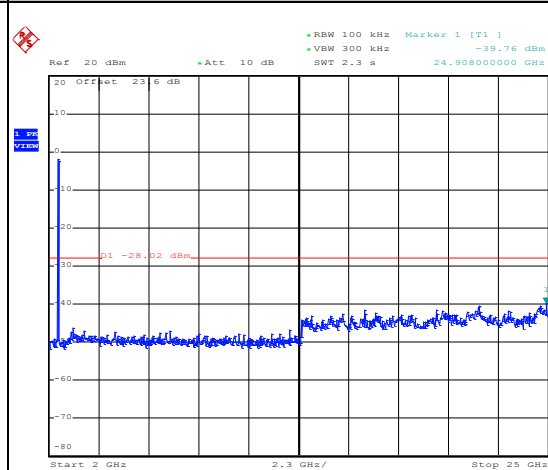
Date: 2.JUL.2016 12:39:22

High Channel Plot

Date: 2.JUL.2016 12:39:57

Spurious Emission 30MHz~3GHz

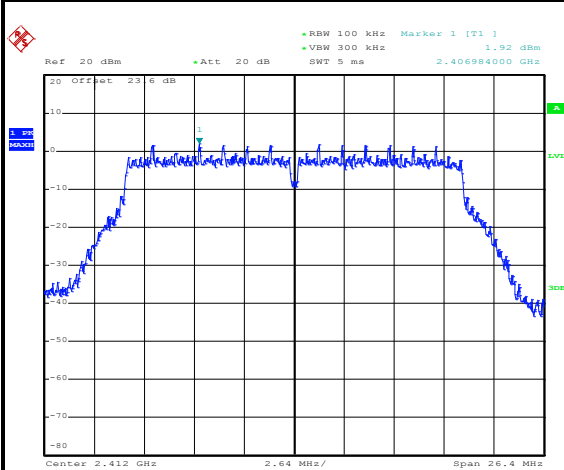
Date: 2.JUL.2016 12:40:14

Spurious Emission 2GHz~25GHz

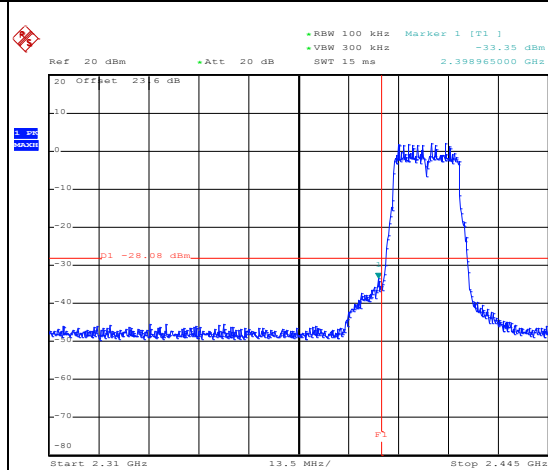
Date: 2.JUL.2016 12:40:22



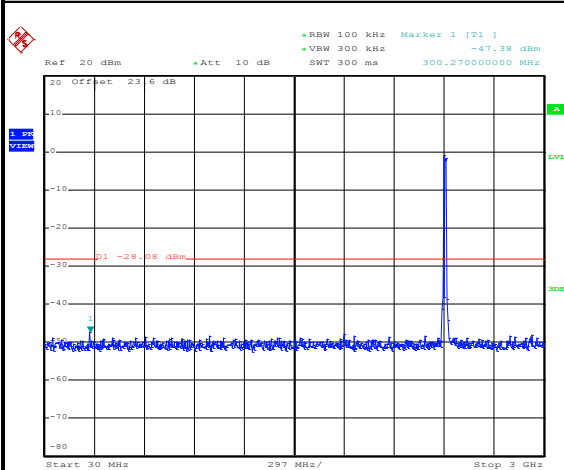
Number of TX :	2	Ant. :	2
Test Mode :	802.11n HT20	Temperature :	21~25°C
Test Band :	2.4GHz Low	Relative Humidity :	51~54%
Test Channel :	01	Test Engineer :	Tommy Lee and Luffy Lin

WLAN 802.11n HT20 Channel 01**100kHz PSD reference Level**

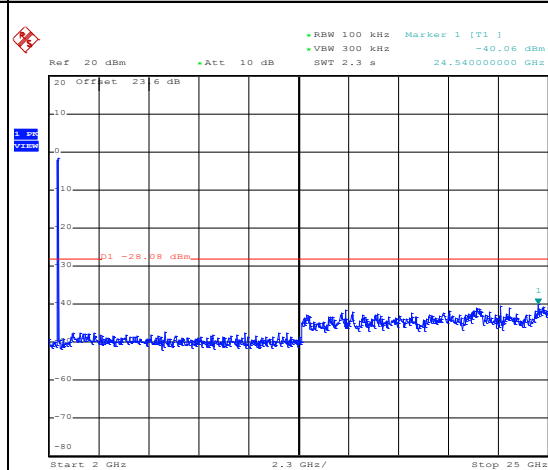
Date: 2.JUL.2016 13:10:40

Low Channel Plot

Date: 2.JUL.2016 13:10:59

Spurious Emission 30MHz~3GHz

Date: 2.JUL.2016 13:11:30

Spurious Emission 2GHz~25GHz

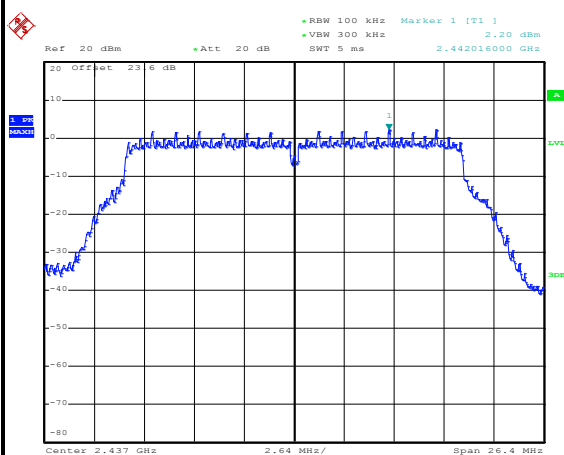
Date: 2.JUL.2016 13:11:39



Number of TX :	2	Ant. :	2
Test Mode :	802.11n HT20	Temperature :	21~25°C
Test Band :	2.4GHz Mid	Relative Humidity :	51~54%
Test Channel :	06	Test Engineer :	Tommy Lee and Luffy Lin

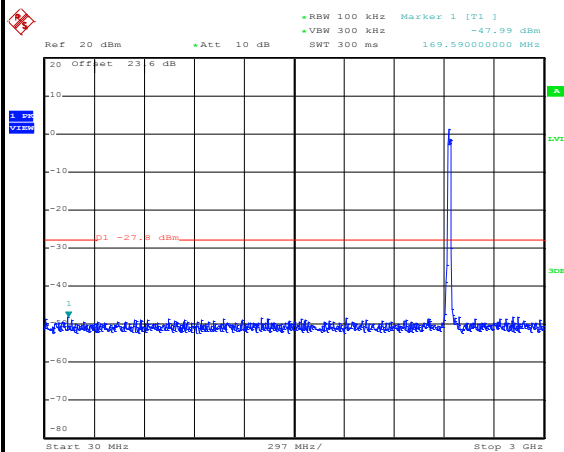
WLAN 802.11n HT20 Channel 06

100kHz PSD reference Level



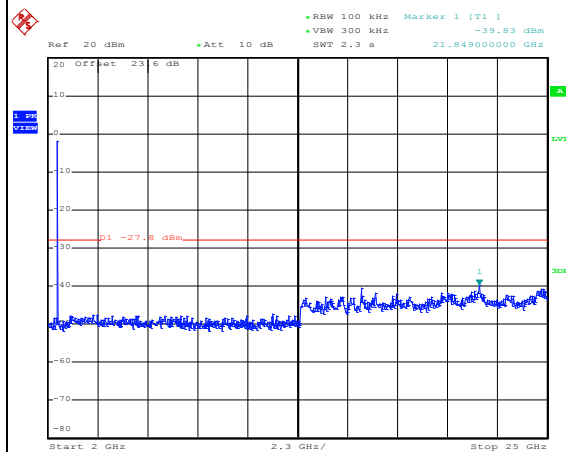
Date: 2.JUL.2016 13:28:56

Spurious Emission 30MHz~3GHz



Date: 2.JUL.2016 13:34:54

Spurious Emission 2GHz~25GHz



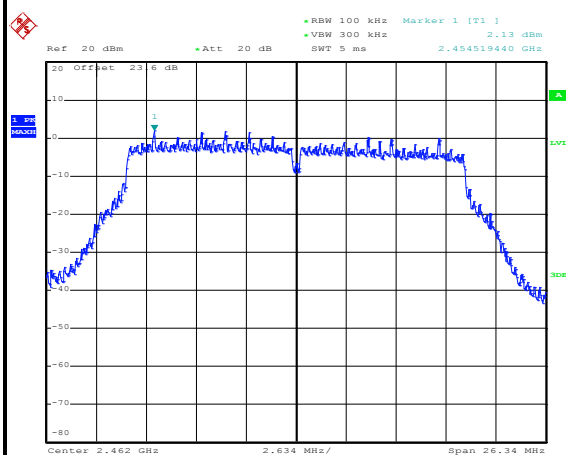
Date: 2.JUL.2016 13:35:02



Number of TX :	2	Ant. :	2
Test Mode :	802.11n HT20	Temperature :	21~25°C
Test Band :	2.4GHz High	Relative Humidity :	51~54%
Test Channel :	11	Test Engineer :	Tommy Lee and Luffy Lin

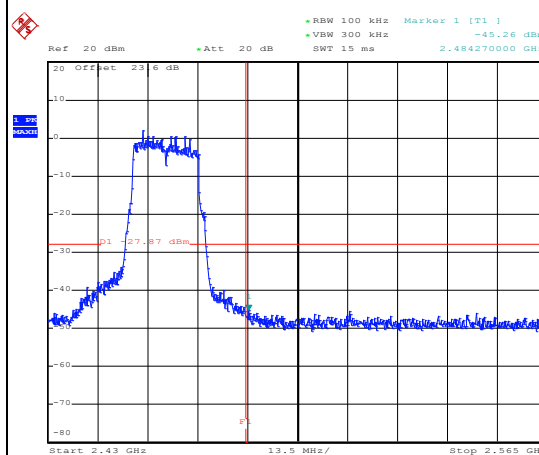
WLAN 802.11n HT20 Channel 11

100kHz PSD reference Level



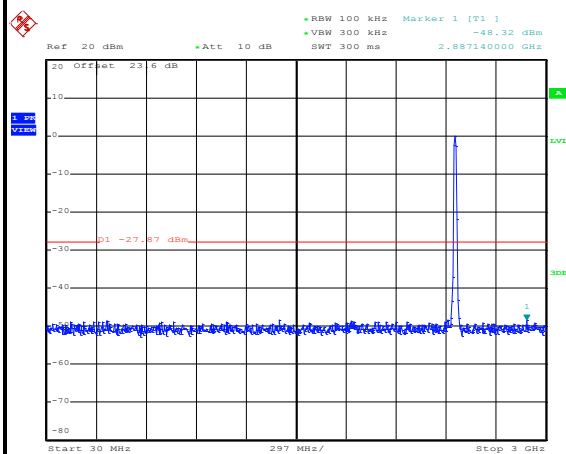
Date: 2.JUL.2016 13:42:14

High Channel Plot



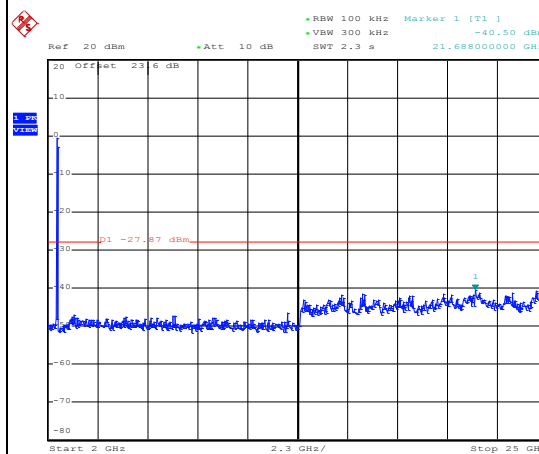
Date: 2.JUL.2016 13:42:54

Spurious Emission 30MHz~3GHz



Date: 2.JUL.2016 13:43:08

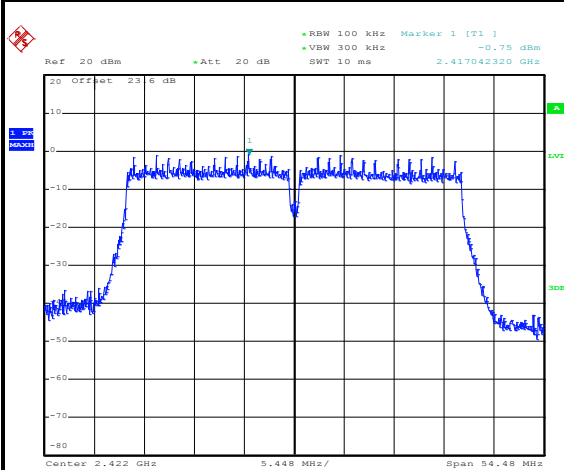
Spurious Emission 2GHz~25GHz



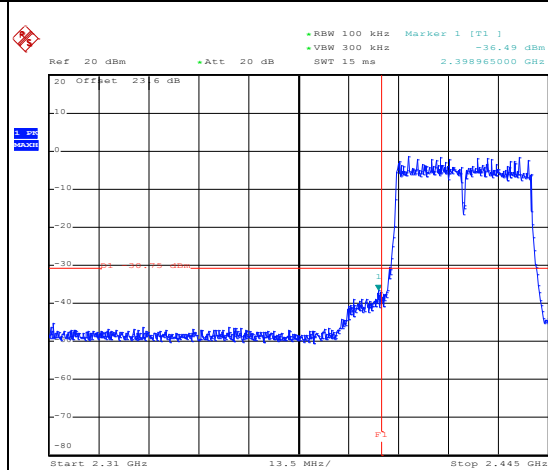
Date: 2.JUL.2016 13:43:17



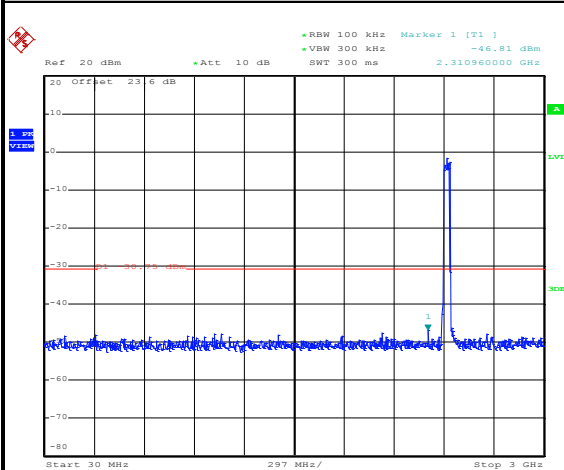
Number of TX :	2	Ant. :	2
Test Mode :	802.11n HT40	Temperature :	21~25°C
Test Band :	2.4GHz Low	Relative Humidity :	51~54%
Test Channel :	03	Test Engineer :	Tommy Lee and Luffy Lin

WLAN 802.11n HT40 Channel 03**100kHz PSD reference Level**

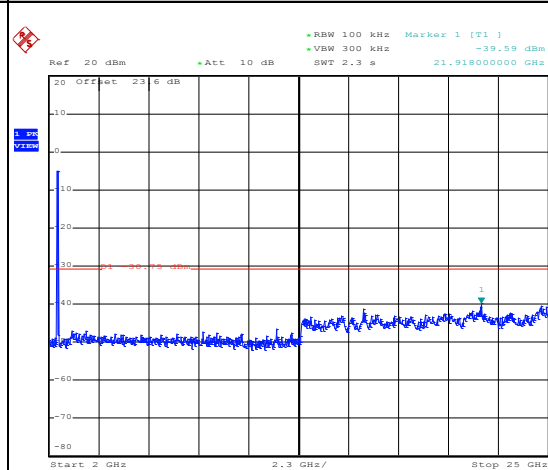
Date: 2.JUL.2016 14:12:22

Low Channel Plot

Date: 2.JUL.2016 14:12:35

Spurious Emission 30MHz~3GHz

Date: 2.JUL.2016 14:13:09

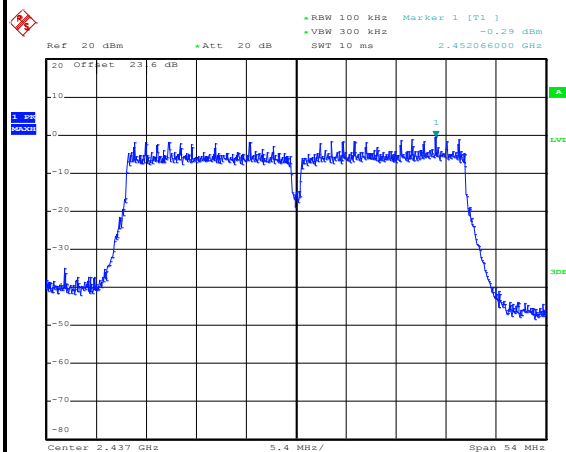
Spurious Emission 2GHz~25GHz

Date: 2.JUL.2016 14:13:17

Number of TX :	2	Ant. :	2
Test Mode :	802.11n HT40	Temperature :	21~25℃
Test Band :	2.4GHz Mid	Relative Humidity :	51~54%
Test Channel :	06	Test Engineer :	Tommy Lee and Luffy Lin

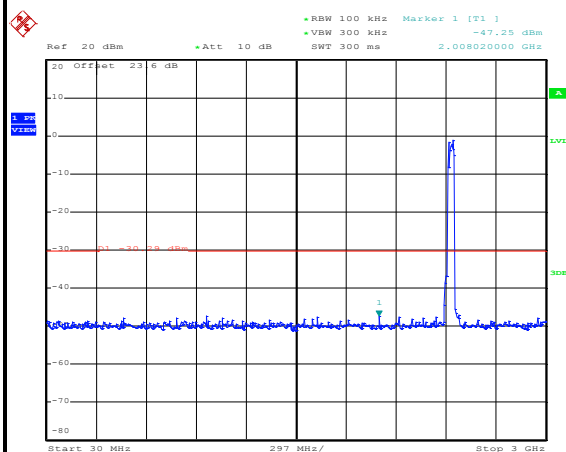
WLAN 802.11n HT40 Channel 06

100kHz PSD reference Level



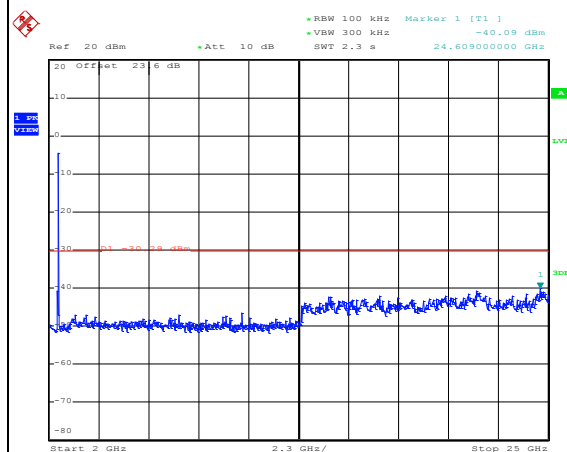
Date: 2.JUL.2016 14:22:48

Spurious Emission 30MHz~3GHz



Date: 2.JUL.2016 14:30:24

Spurious Emission 2GHz~25GHz



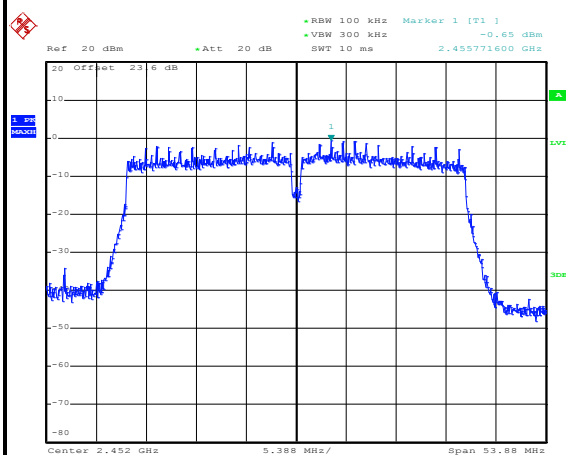
Date: 2.JUL.2016 14:24:31



Number of TX :	2	Ant. :	2
Test Mode :	802.11n HT40	Temperature :	21~25°C
Test Band :	2.4GHz High	Relative Humidity :	51~54%
Test Channel :	09	Test Engineer :	Tommy Lee and Luffy Lin

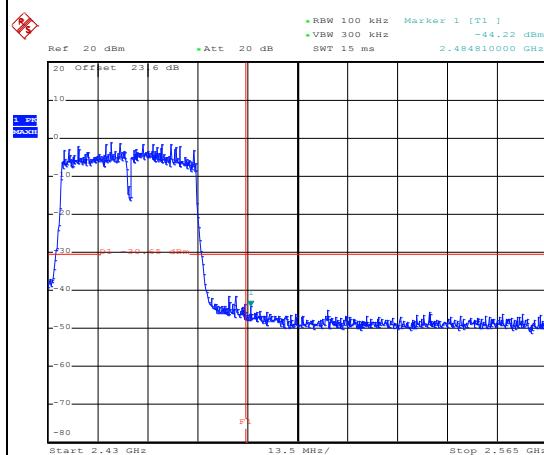
WLAN 802.11n HT40 Channel 09

100kHz PSD reference Level



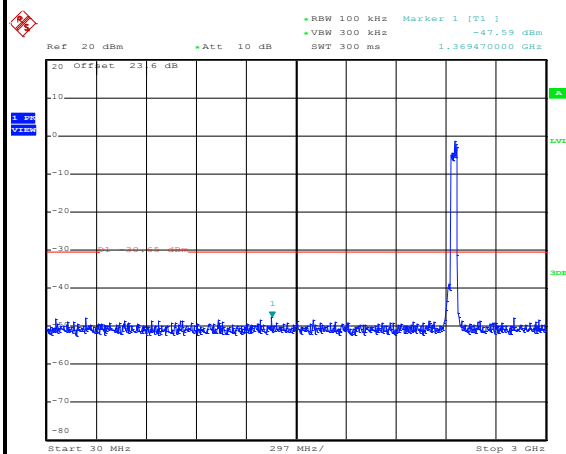
Date: 2.JUL.2016 14:41:36

High Channel Plot



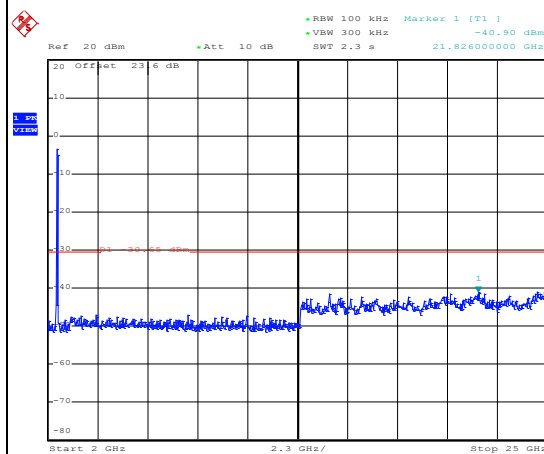
Date: 2.JUL.2016 14:42:08

Spurious Emission 30MHz~3GHz



Date: 2.JUL.2016 14:42:21

Spurious Emission 2GHz~25GHz



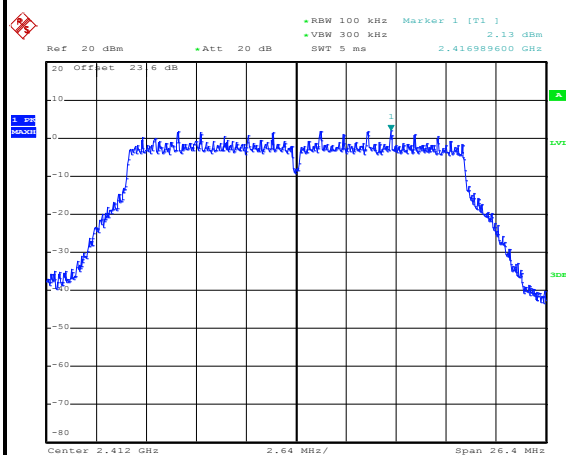
Date: 2.JUL.2016 14:42:30



Number of TX :	2	Ant. :	2
Test Mode :	802.11ac VHT20	Temperature :	21~25°C
Test Band :	2.4GHz Low	Relative Humidity :	51~54%
Test Channel :	01	Test Engineer :	Tommy Lee and Luffy Lin

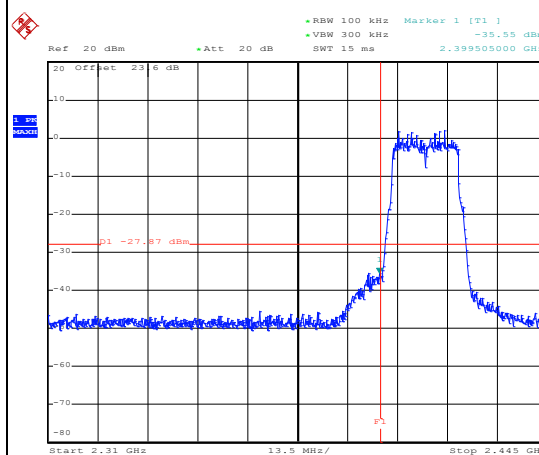
WLAN 802.11ac VHT20 Channel 01

100kHz PSD reference Level



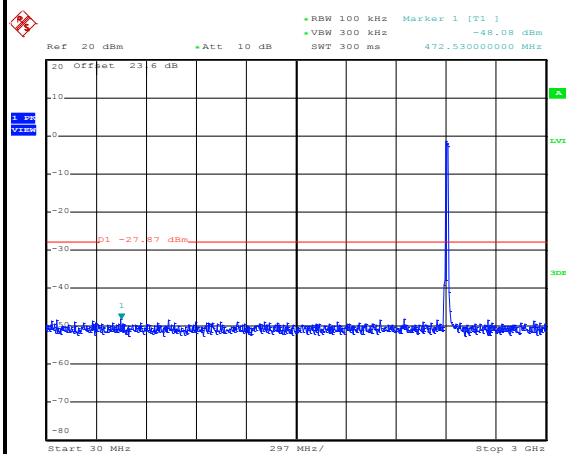
Date: 2.JUL.2016 15:42:37

Low Channel Plot



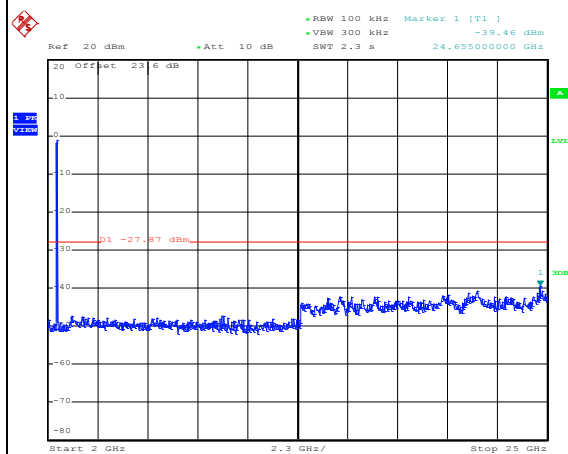
Date: 2.JUL.2016 15:42:51

Spurious Emission 30MHz~3GHz



Date: 2.JUL.2016 15:43:04

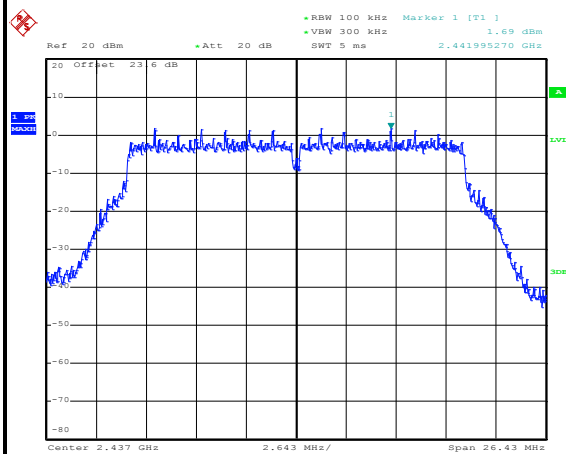
Spurious Emission 2GHz~25GHz



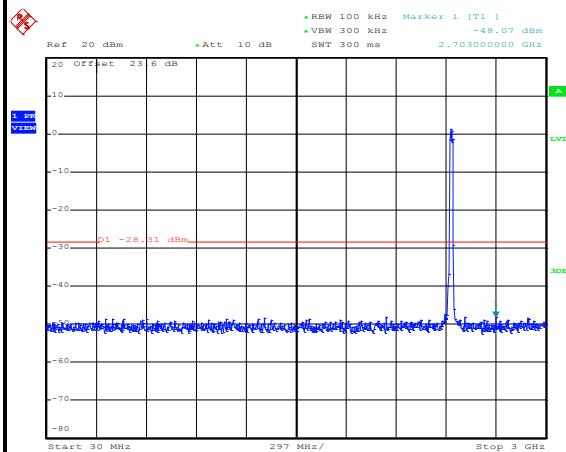
Date: 2.JUL.2016 15:43:13



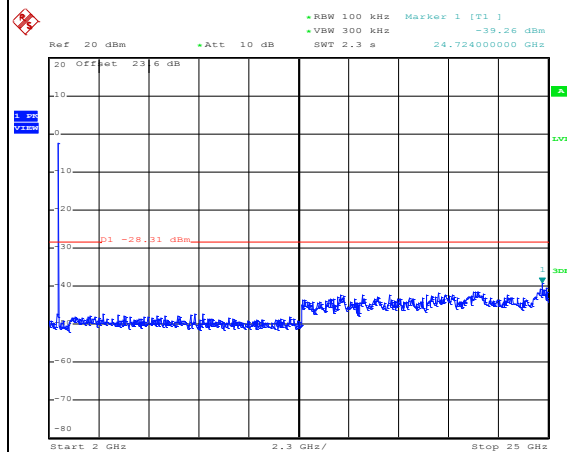
Number of TX :	2	Ant. :	2
Test Mode :	802.11ac VHT20	Temperature :	21~25°C
Test Band :	2.4GHz Mid	Relative Humidity :	51~54%
Test Channel :	06	Test Engineer :	Tommy Lee and Luffy Lin

WLAN 802.11ac VHT20 Channel 06**100kHz PSD reference Level**

Date: 2.JUL.2016 15:52:38

Spurious Emission 30MHz~3GHz

Date: 2.JUL.2016 15:52:50

Spurious Emission 2GHz~25GHz

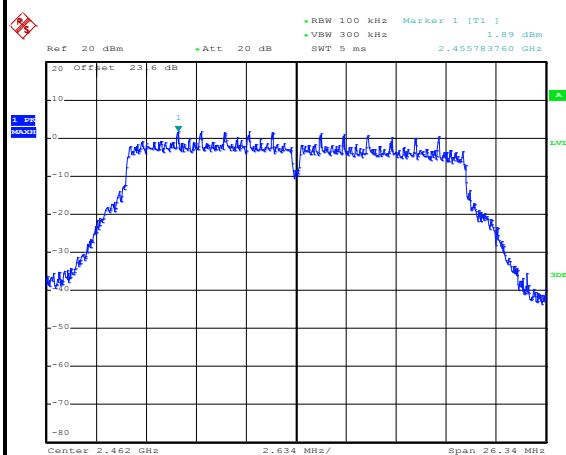
Date: 2.JUL.2016 15:52:59



Number of TX :	2	Ant. :	2
Test Mode :	802.11ac VHT20	Temperature :	21~25°C
Test Band :	2.4GHz High	Relative Humidity :	51~54%
Test Channel :	11	Test Engineer :	Tommy Lee and Luffy Lin

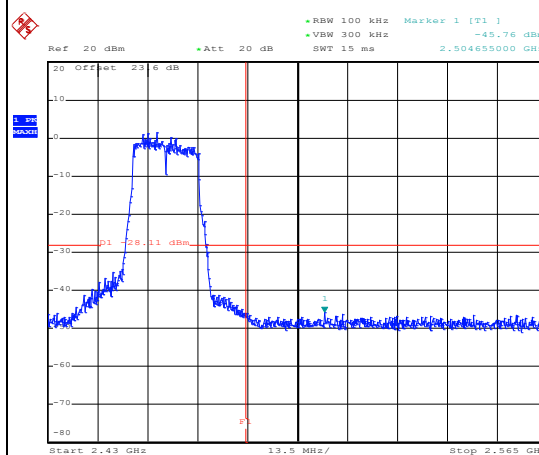
WLAN 802.11ac VHT20 Channel 11

100kHz PSD reference Level



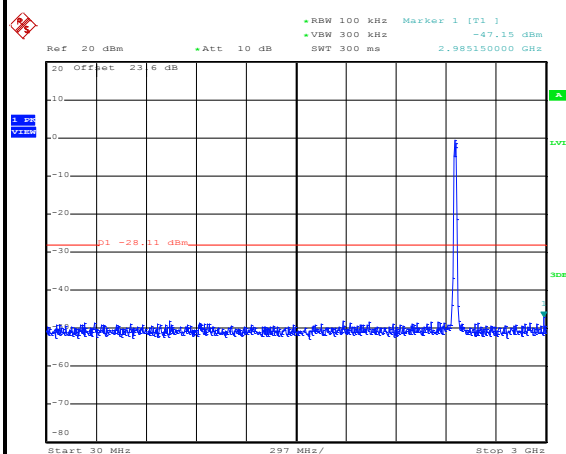
Date: 2.JUL.2016 15:59:35

High Channel Plot



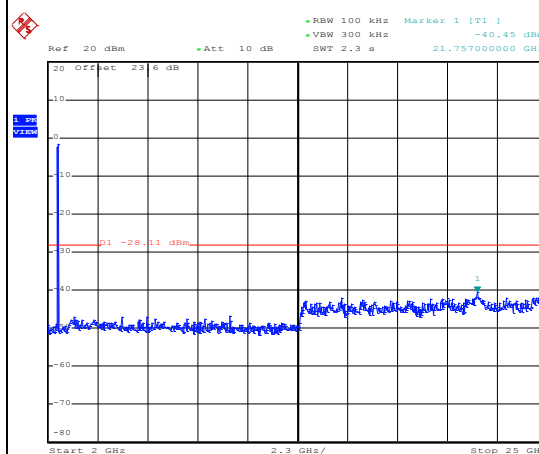
Date: 2.JUL.2016 16:00:09

Spurious Emission 30MHz~3GHz



Date: 2.JUL.2016 16:00:33

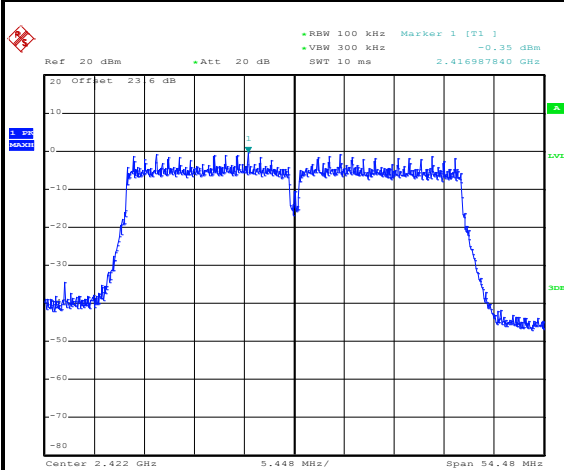
Spurious Emission 2GHz~25GHz



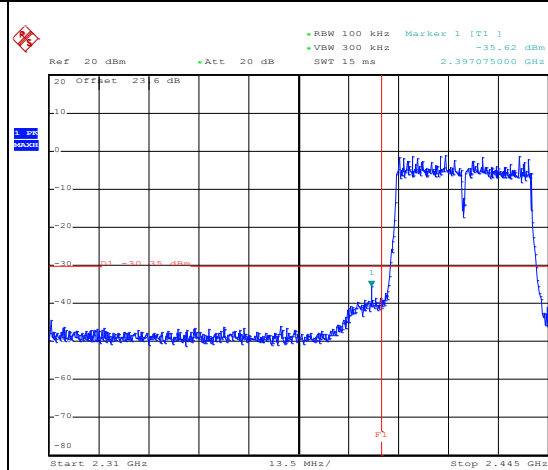
Date: 2.JUL.2016 16:00:42



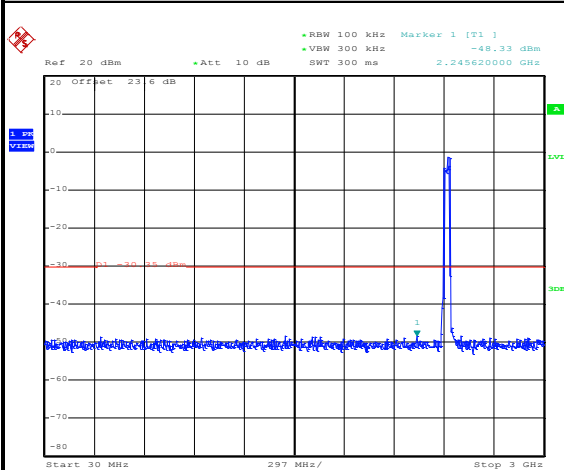
Number of TX :	2	Ant. :	2
Test Mode :	802.11ac VHT40	Temperature :	21~25°C
Test Band :	2.4GHz Low	Relative Humidity :	51~54%
Test Channel :	03	Test Engineer :	Tommy Lee and Luffy Lin

WLAN 802.11ac VHT40 Channel 03**100kHz PSD reference Level**

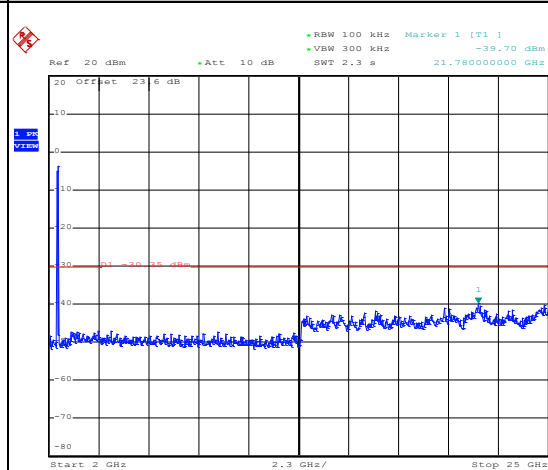
Date: 2.JUL.2016 16:57:51

Low Channel Plot

Date: 2.JUL.2016 16:58:10

Spurious Emission 30MHz~3GHz

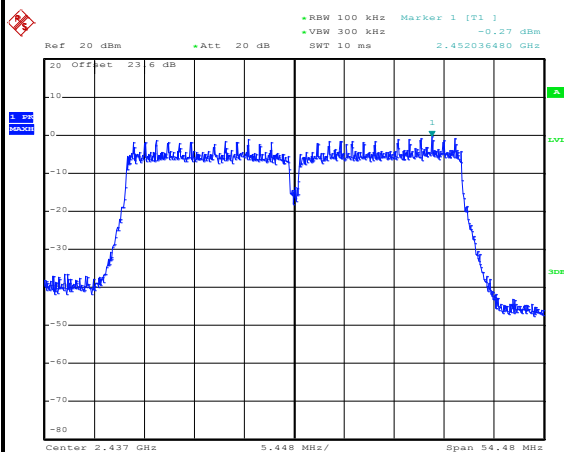
Date: 2.JUL.2016 16:59:35

Spurious Emission 2GHz~25GHz

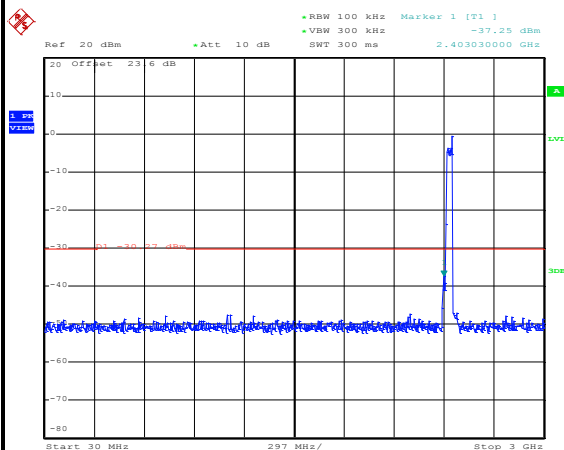
Date: 2.JUL.2016 16:59:44



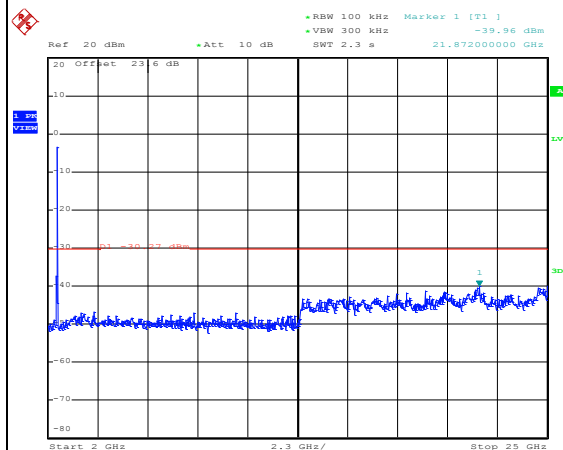
Number of TX :	2	Ant. :	2
Test Mode :	802.11ac VHT40	Temperature :	21~25°C
Test Band :	2.4GHz Mid	Relative Humidity :	51~54%
Test Channel :	06	Test Engineer :	Tommy Lee and Luffy Lin

WLAN 802.11ac VHT40 Channel 06**100kHz PSD reference Level**

Date: 2.JUL.2016 17:07:43

Spurious Emission 30MHz~3GHz

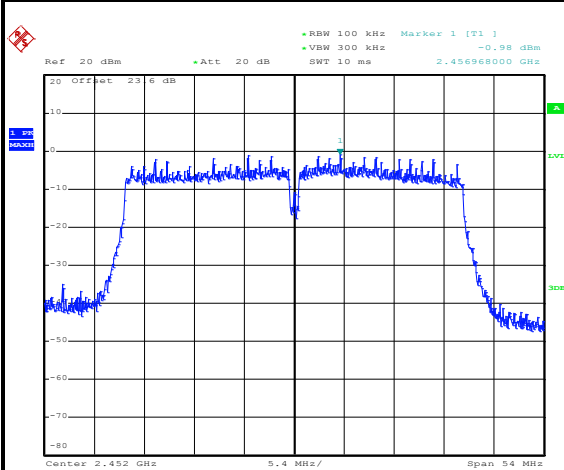
Date: 2.JUL.2016 17:09:21

Spurious Emission 2GHz~25GHz

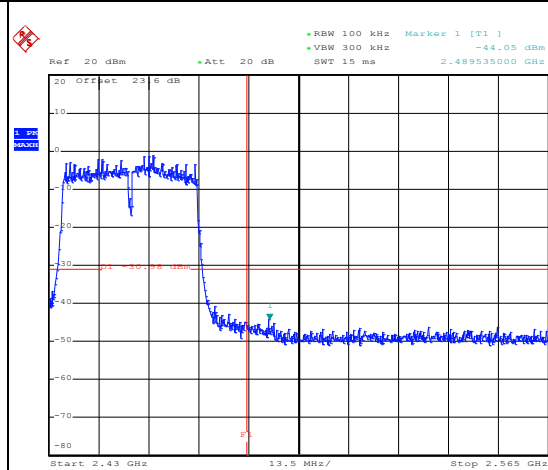
Date: 2.JUL.2016 17:09:29



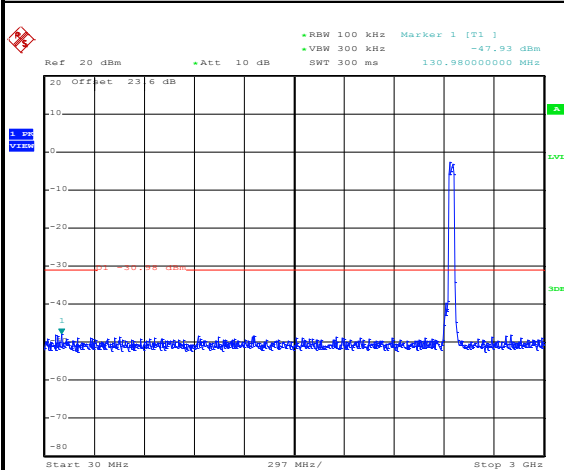
Number of TX :	2	Ant. :	2
Test Mode :	802.11ac VHT40	Temperature :	21~25°C
Test Band :	2.4GHz High	Relative Humidity :	51~54%
Test Channel :	09	Test Engineer :	Tommy Lee and Luffy Lin

WLAN 802.11ac VHT40 Channel 09**100kHz PSD reference Level**

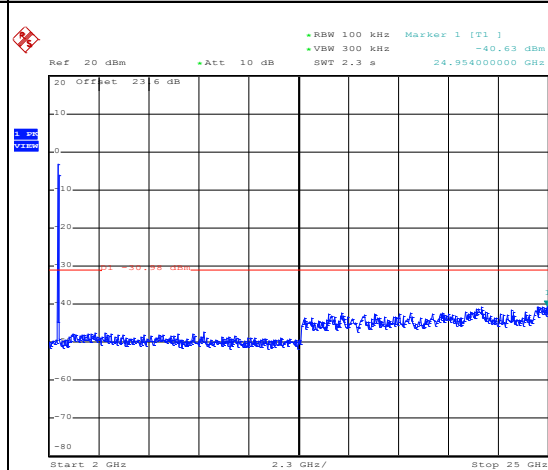
Date: 4.JUL.2016 09:29:55

High Channel Plot

Date: 4.JUL.2016 09:30:10

Spurious Emission 30MHz~3GHz

Date: 4.JUL.2016 09:30:51

Spurious Emission 2GHz~25GHz

Date: 4.JUL.2016 09:30:59



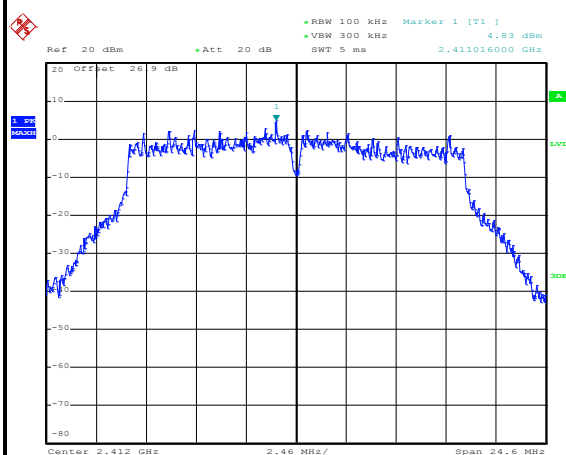
<TXBF Modes>

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

Number of TX :	2	Ant. :	1
Test Mode :	802.11g	Temperature :	21~25°C
Test Band :	2.4GHz Low	Relative Humidity :	51~54%
Test Channel :	01	Test Engineer :	Tommy Lee and Luffy Lin

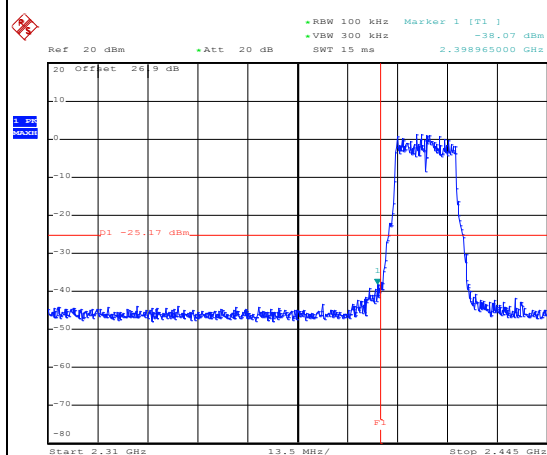
WLAN 802.11g Channel 01

100kHz PSD reference Level



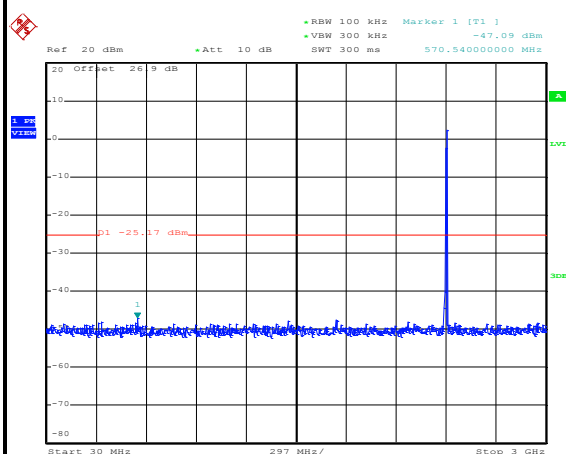
Date: 6.JUL.2016 23:56:43

Low Channel Plot



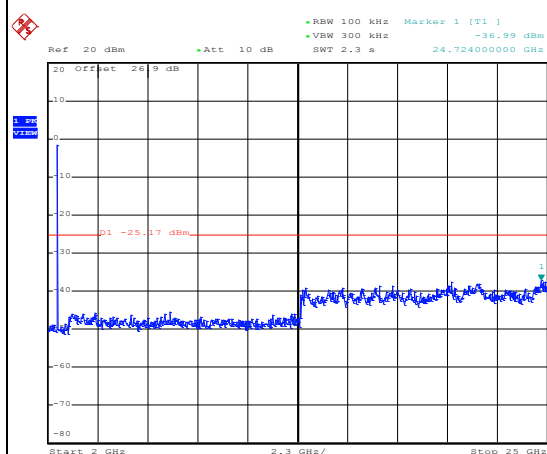
Date: 6.JUL.2016 23:57:19

Spurious Emission 30MHz~3GHz



Date: 6.JUL.2016 23:58:20

Spurious Emission 2GHz~25GHz



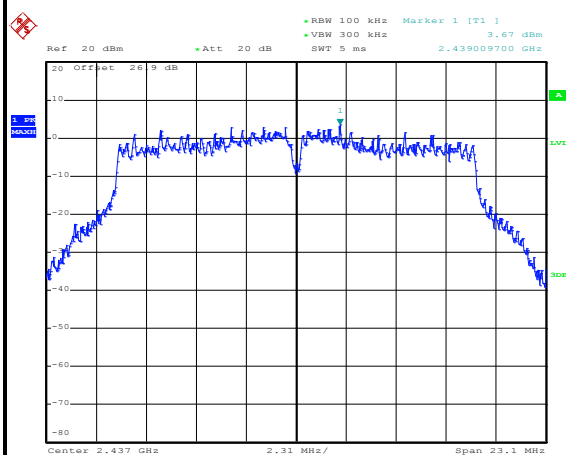
Date: 7.JUL.2016 00:01:52



Number of TX :	2	Ant. :	1
Test Mode :	802.11g	Temperature :	21~25°C
Test Band :	2.4GHz Mid	Relative Humidity :	51~54%
Test Channel :	06	Test Engineer :	Tommy Lee and Luffy Lin

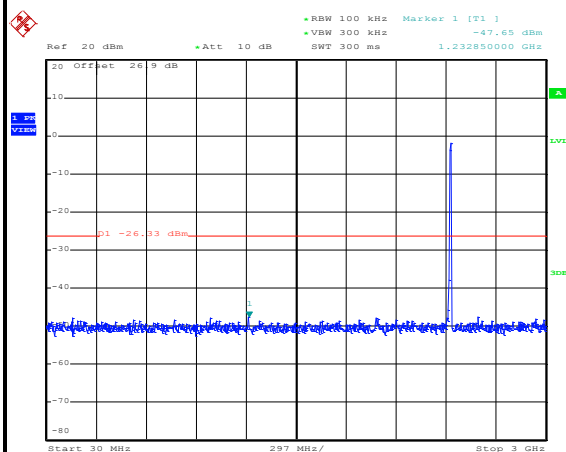
WLAN 802.11g Channel 06

100kHz PSD reference Level



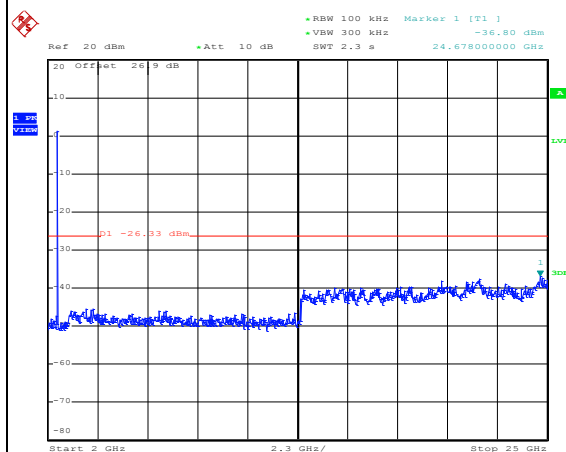
Date: 7.JUL.2016 00:46:14

Spurious Emission 30MHz~3GHz



Date: 7.JUL.2016 00:48:07

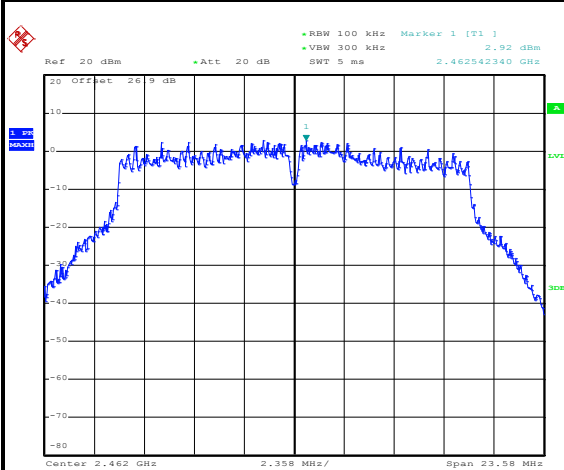
Spurious Emission 2GHz~25GHz



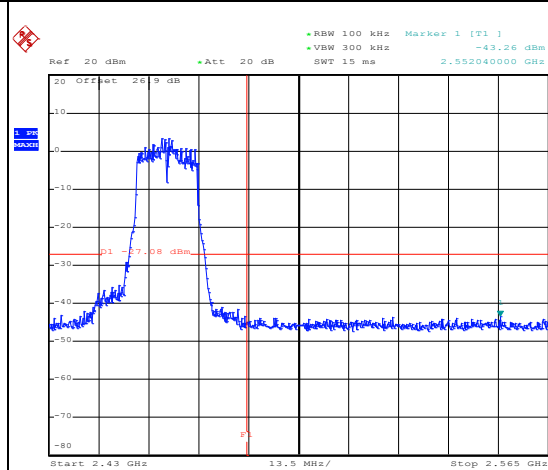
Date: 7.JUL.2016 00:48:16



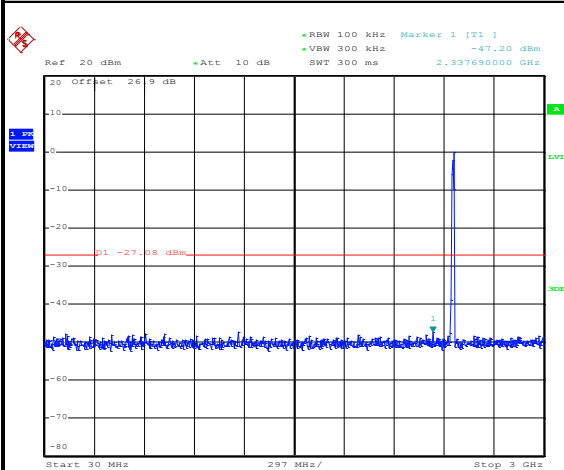
Number of TX :	2	Ant. :	1
Test Mode :	802.11g	Temperature :	21~25°C
Test Band :	2.4GHz High	Relative Humidity :	51~54%
Test Channel :	11	Test Engineer :	Tommy Lee and Luffy Lin

WLAN 802.11g Channel 11**100kHz PSD reference Level**

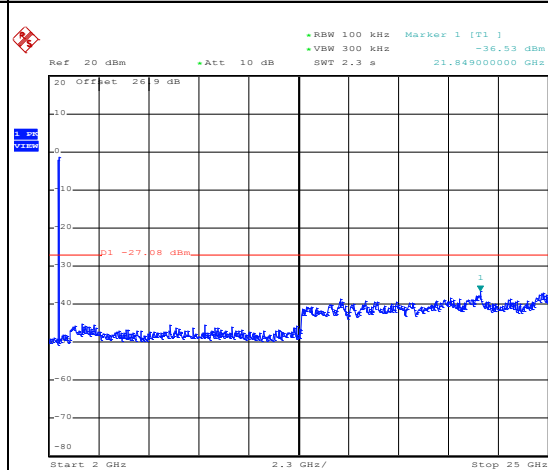
Date: 7.JUL.2016 01:24:51

High Channel Plot

Date: 7.JUL.2016 01:25:44

Spurious Emission 30MHz~3GHz

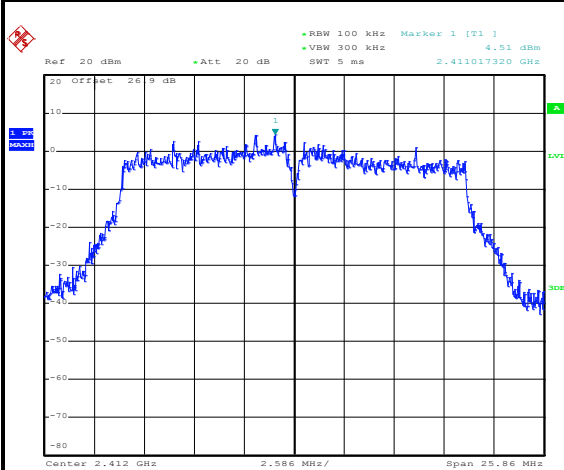
Date: 7.JUL.2016 01:26:35

Spurious Emission 2GHz~25GHz

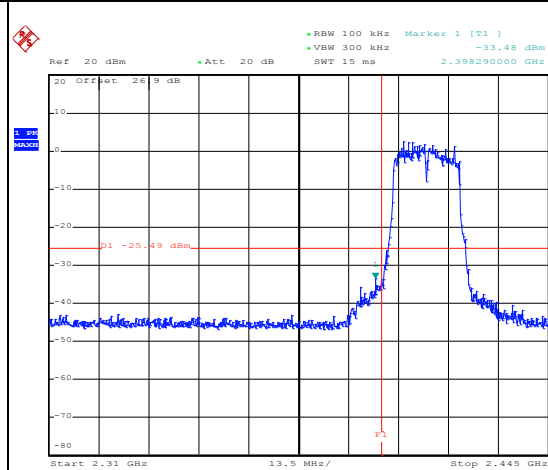
Date: 7.JUL.2016 01:27:53



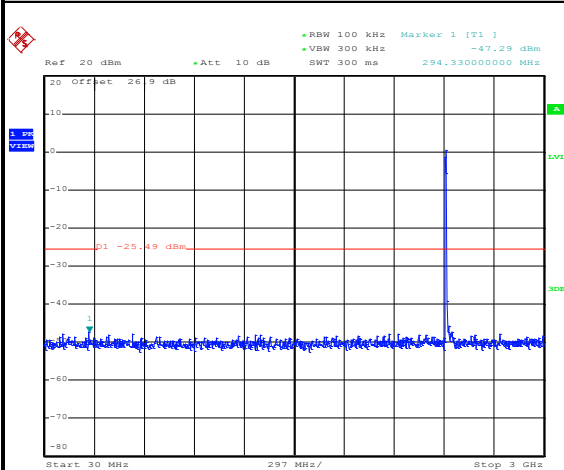
Number of TX :	2	Ant. :	1
Test Mode :	802.11n HT20	Temperature :	21~25°C
Test Band :	2.4GHz Low	Relative Humidity :	51~54%
Test Channel :	01	Test Engineer :	Tommy Lee and Luffy Lin

WLAN 802.11n HT20 Channel 01**100kHz PSD reference Level**

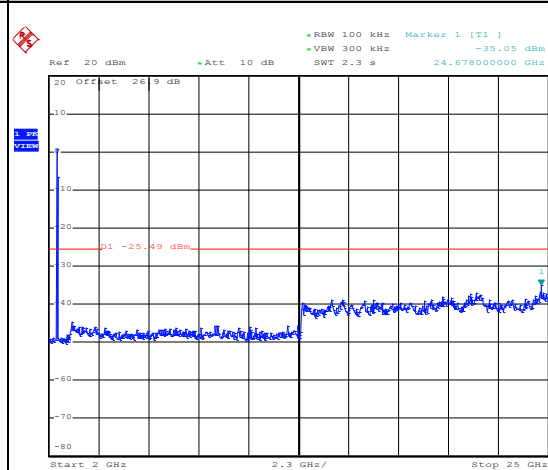
Date: 7.JUL.2016 01:59:41

Low Channel Plot

Date: 7.JUL.2016 02:00:52

Spurious Emission 30MHz~3GHz

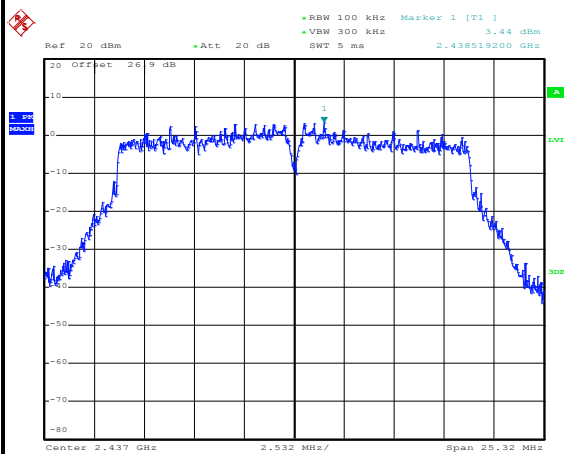
Date: 7.JUL.2016 02:01:31

Spurious Emission 2GHz~25GHz

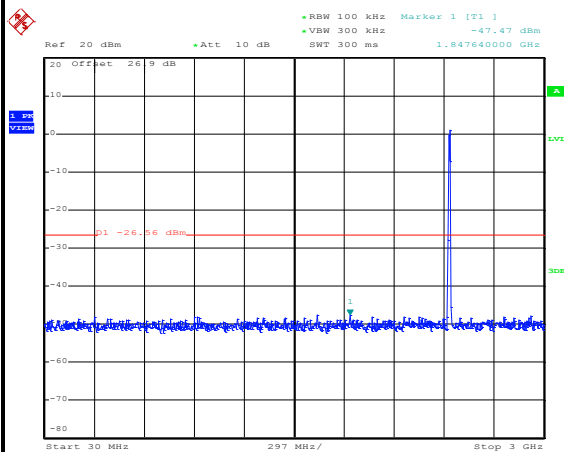
Date: 7.JUL.2016 02:04:19



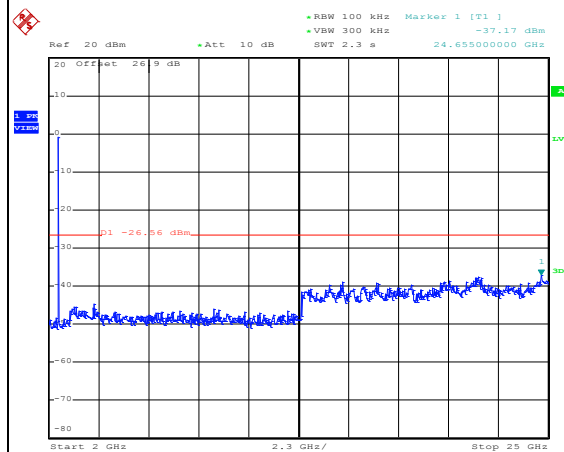
Number of TX :	2	Ant. :	1
Test Mode :	802.11n HT20	Temperature :	21~25°C
Test Band :	2.4GHz Mid	Relative Humidity :	51~54%
Test Channel :	06	Test Engineer :	Tommy Lee and Luffy Lin

WLAN 802.11n HT20 Channel 06**100kHz PSD reference Level**

Date: 7.JUL.2016 02:33:35

Spurious Emission 30MHz~3GHz

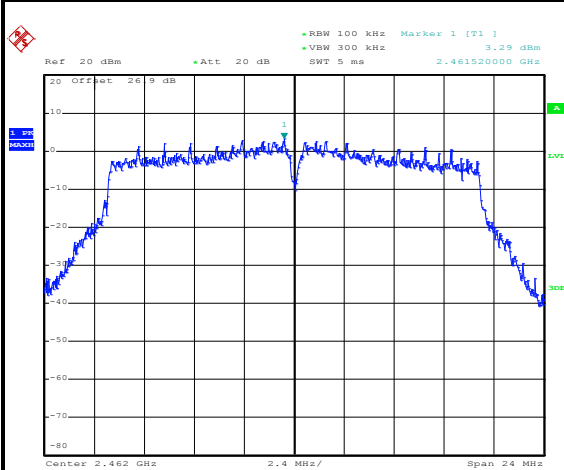
Date: 7.JUL.2016 02:35:44

Spurious Emission 2GHz~25GHz

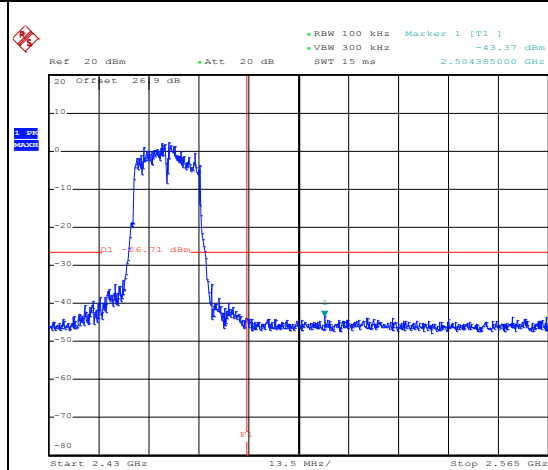
Date: 7.JUL.2016 02:35:53



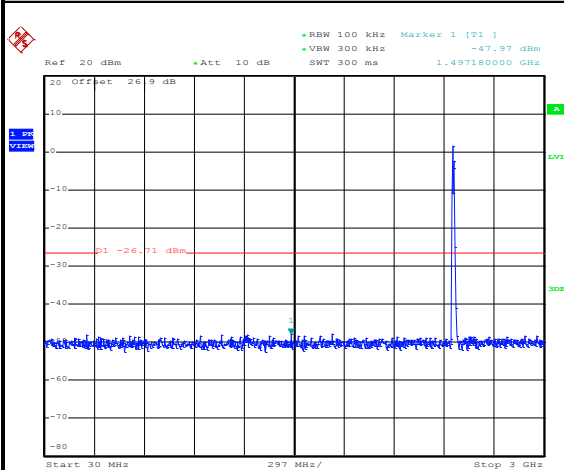
Number of TX :	2	Ant. :	1
Test Mode :	802.11n HT20	Temperature :	21~25°C
Test Band :	2.4GHz High	Relative Humidity :	51~54%
Test Channel :	11	Test Engineer :	Tommy Lee and Luffy Lin

WLAN 802.11n HT20 Channel 11**100kHz PSD reference Level**

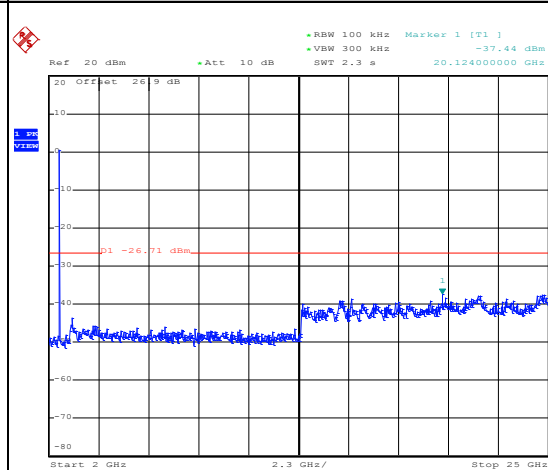
Date: 7.JUL.2016 03:01:52

High Channel Plot

Date: 7.JUL.2016 03:15:45

Spurious Emission 30MHz~3GHz

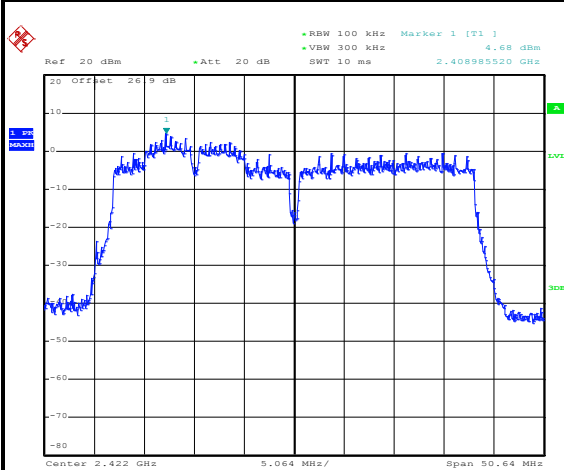
Date: 7.JUL.2016 03:02:37

Spurious Emission 2GHz~25GHz

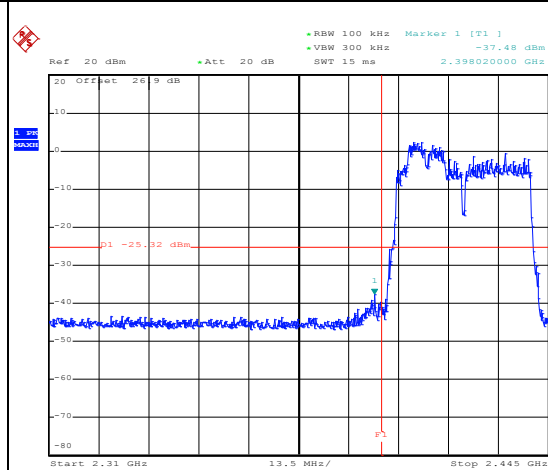
Date: 7.JUL.2016 03:02:46



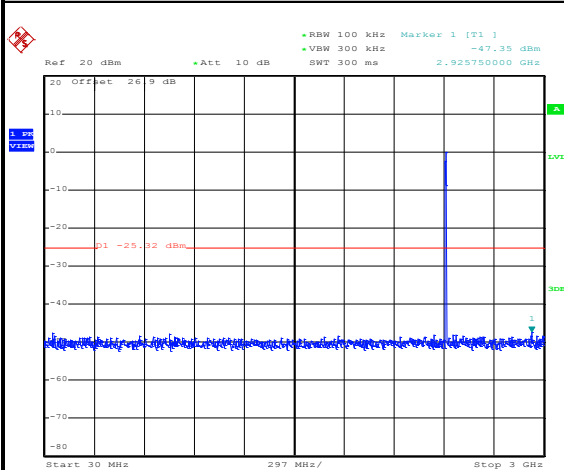
Number of TX :	2	Ant. :	1
Test Mode :	802.11n HT40	Temperature :	21~25°C
Test Band :	2.4GHz Low	Relative Humidity :	51~54%
Test Channel :	03	Test Engineer :	Tommy Lee and Luffy Lin

WLAN 802.11n HT40 Channel 03**100kHz PSD reference Level**

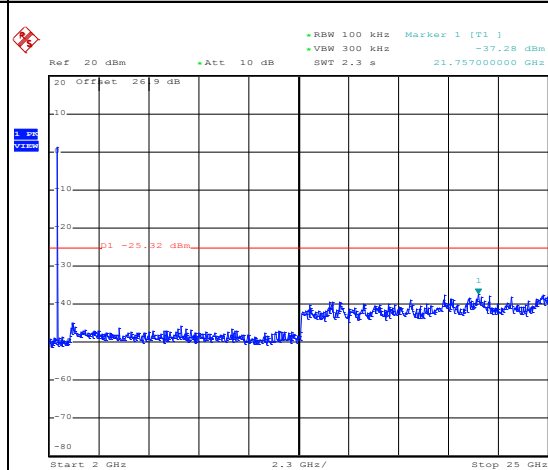
Date: 7.JUL.2016 03:35:40

Low Channel Plot

Date: 7.JUL.2016 03:37:10

Spurious Emission 30MHz~3GHz

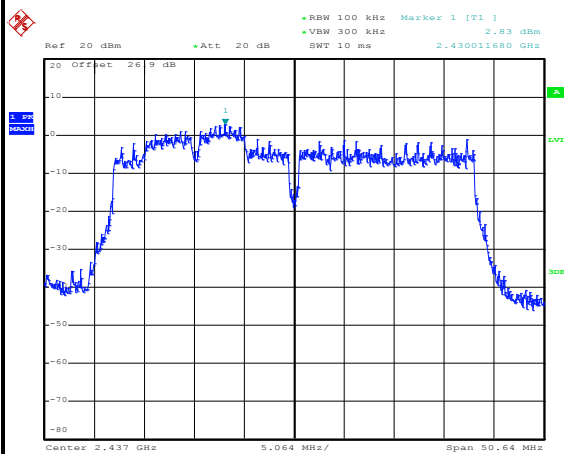
Date: 7.JUL.2016 03:38:36

Spurious Emission 2GHz~25GHz

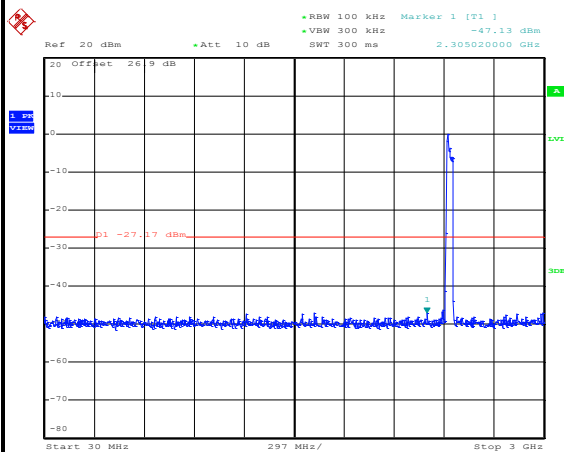
Date: 7.JUL.2016 03:37:35



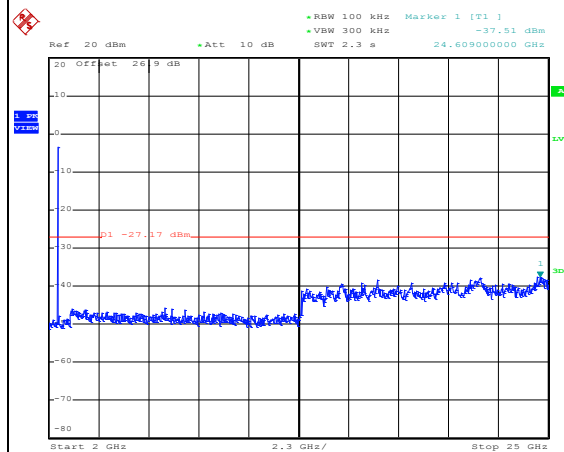
Number of TX :	2	Ant. :	1
Test Mode :	802.11n HT40	Temperature :	21~25°C
Test Band :	2.4GHz Mid	Relative Humidity :	51~54%
Test Channel :	06	Test Engineer :	Tommy Lee and Luffy Lin

WLAN 802.11n HT40 Channel 06**100kHz PSD reference Level**

Date: 7.JUL.2016 04:13:49

Spurious Emission 30MHz~3GHz

Date: 7.JUL.2016 04:20:19

Spurious Emission 2GHz~25GHz

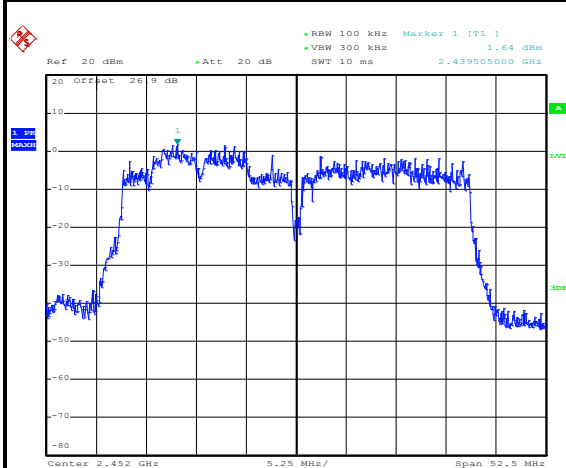
Date: 7.JUL.2016 04:18:03



Number of TX :	2	Ant. :	1
Test Mode :	802.11n HT40	Temperature :	21~25°C
Test Band :	2.4GHz High	Relative Humidity :	51~54%
Test Channel :	09	Test Engineer :	Tommy Lee and Luffy Lin

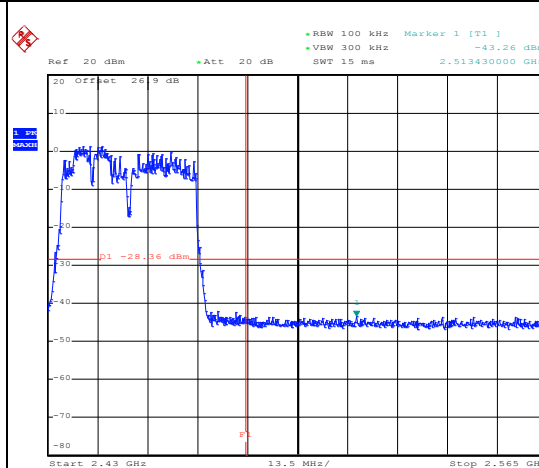
WLAN 802.11n HT40 Channel 09

100kHz PSD reference Level



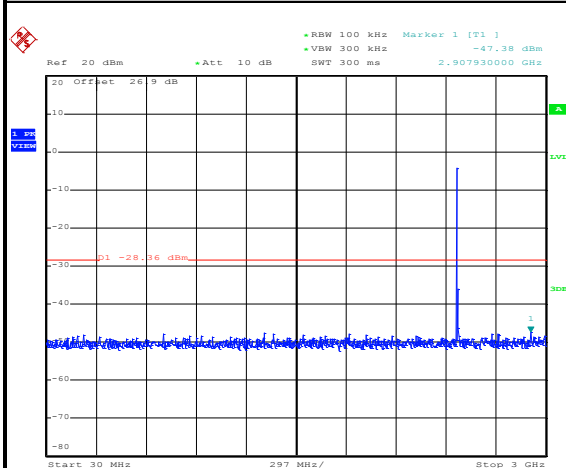
Date: 7.JUL.2016 05:00:58

High Channel Plot



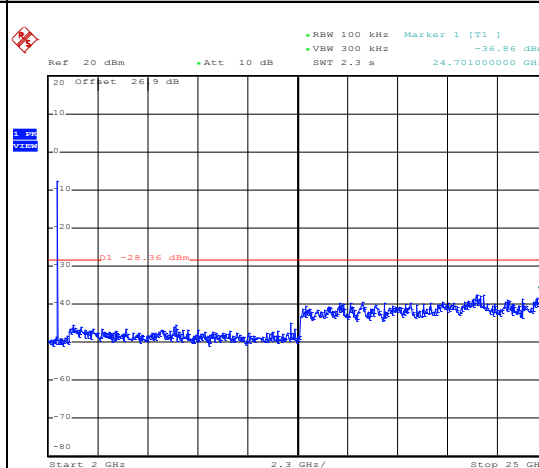
Date: 7.JUL.2016 05:01:57

Spurious Emission 30MHz~3GHz



Date: 7.JUL.2016 05:03:41

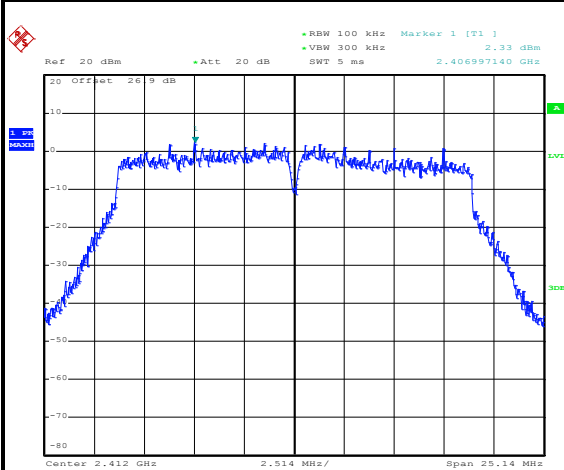
Spurious Emission 2GHz~25GHz



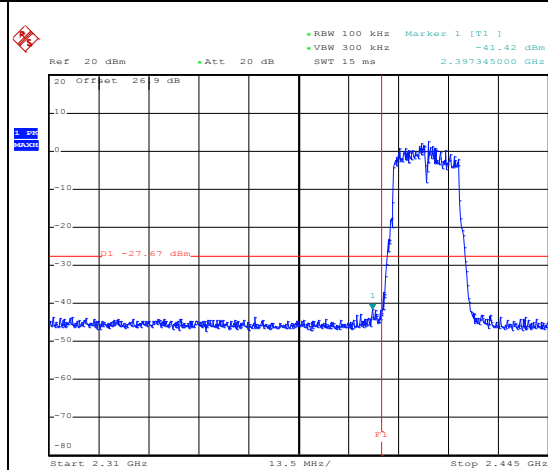
Date: 7.JUL.2016 05:03:14



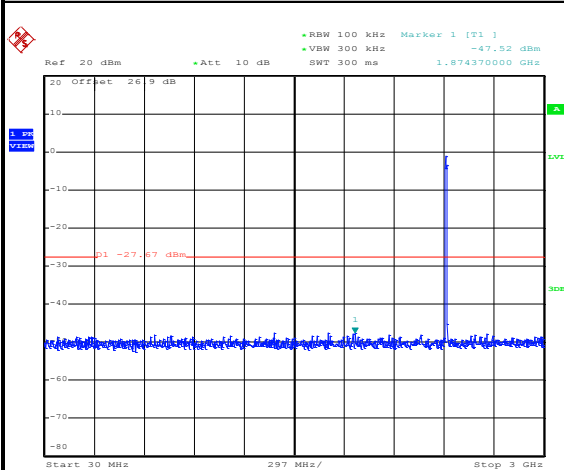
Number of TX :	2	Ant. :	1
Test Mode :	802.11ac VHT20	Temperature :	21~25°C
Test Band :	2.4GHz Low	Relative Humidity :	51~54%
Test Channel :	01	Test Engineer :	Tommy Lee and Luffy Lin

WLAN 802.11ac VHT20 Channel 01**100kHz PSD reference Level**

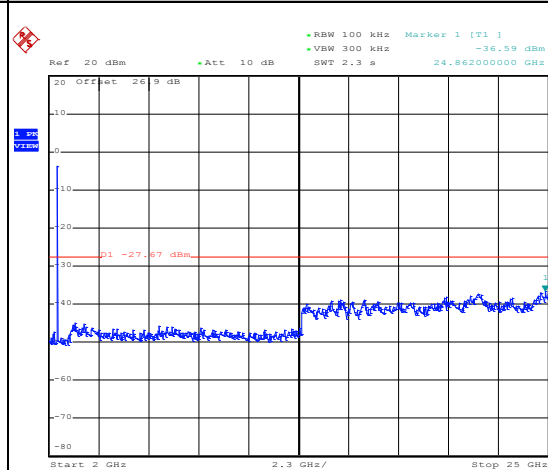
Date: 7.JUL.2016 05:54:53

Low Channel Plot

Date: 7.JUL.2016 05:55:50

Spurious Emission 30MHz~3GHz

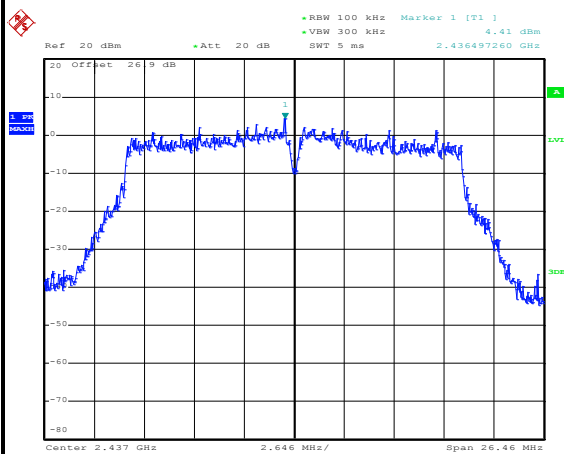
Date: 7.JUL.2016 05:57:07

Spurious Emission 2GHz~25GHz

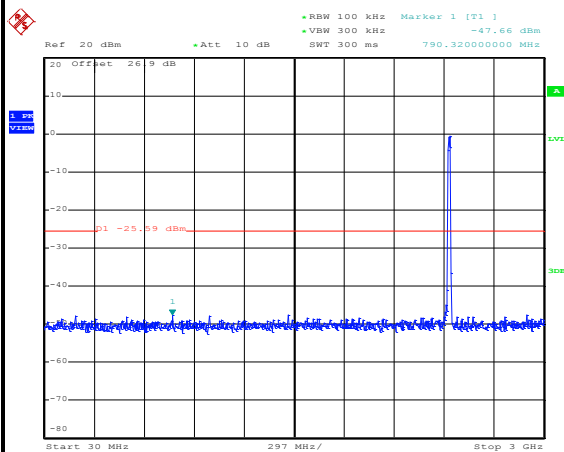
Date: 7.JUL.2016 05:59:06



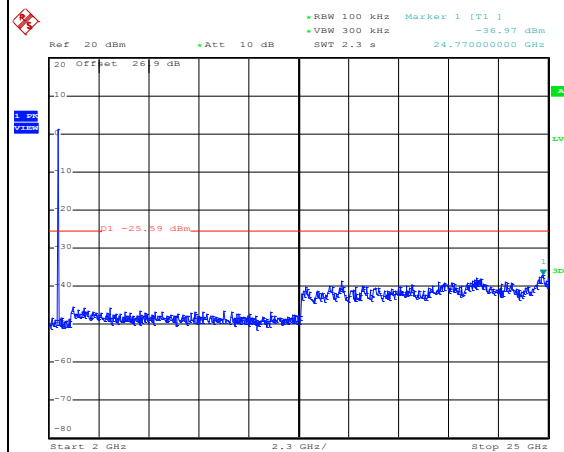
Number of TX :	2	Ant. :	1
Test Mode :	802.11ac VHT20	Temperature :	21~25°C
Test Band :	2.4GHz Mid	Relative Humidity :	51~54%
Test Channel :	06	Test Engineer :	Tommy Lee and Luffy Lin

WLAN 802.11ac VHT20 Channel 06**100kHz PSD reference Level**

Date: 7.JUL.2016 15:04:06

Spurious Emission 30MHz~3GHz

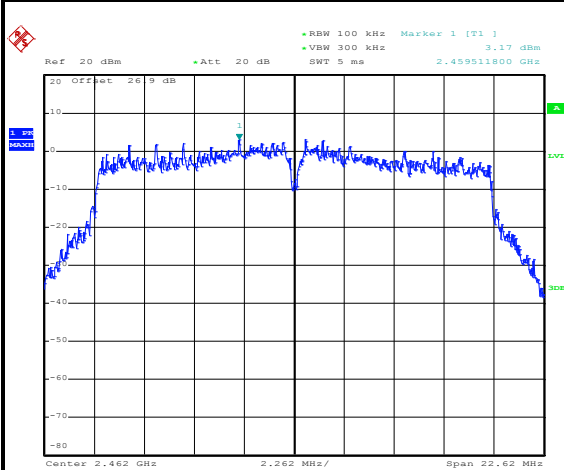
Date: 7.JUL.2016 15:21:39

Spurious Emission 2GHz~25GHz

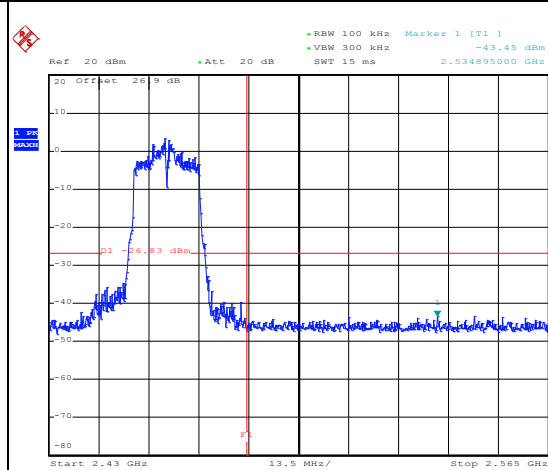
Date: 7.JUL.2016 19:52:39



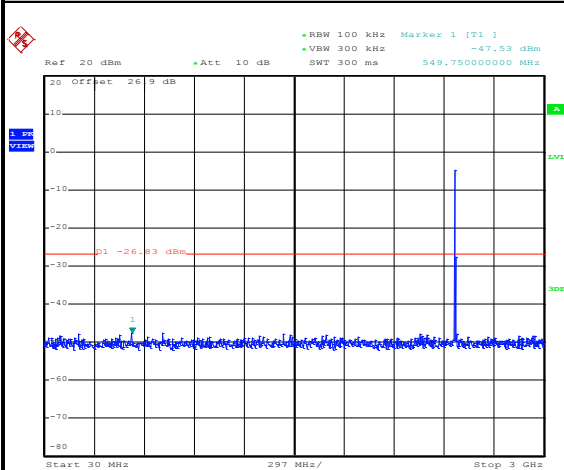
Number of TX :	2	Ant. :	1
Test Mode :	802.11ac VHT20	Temperature :	21~25°C
Test Band :	2.4GHz High	Relative Humidity :	51~54%
Test Channel :	11	Test Engineer :	Tommy Lee and Luffy Lin

WLAN 802.11ac VHT20 Channel 11**100kHz PSD reference Level**

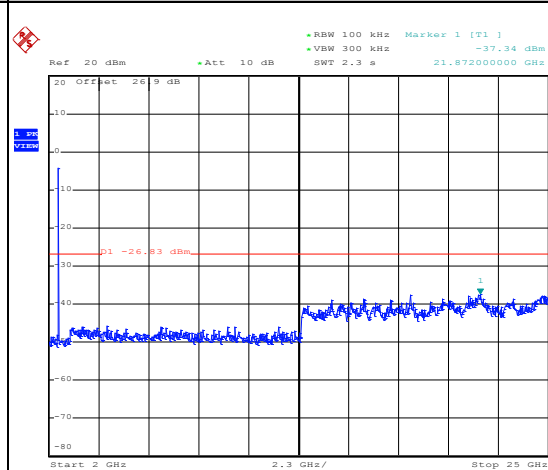
Date: 7.JUL.2016 15:26:38

High Channel Plot

Date: 7.JUL.2016 15:27:37

Spurious Emission 30MHz~3GHz

Date: 7.JUL.2016 15:27:49

Spurious Emission 2GHz~25GHz

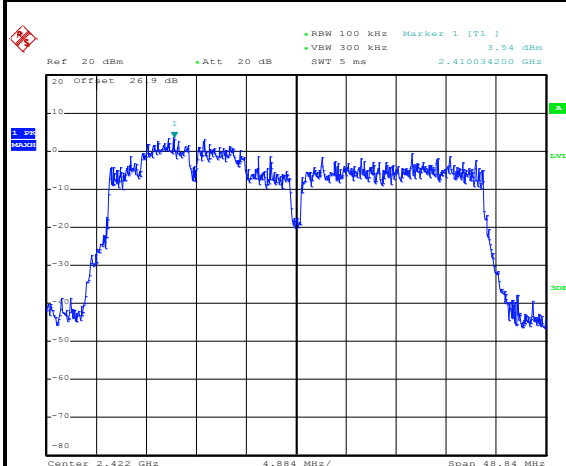
Date: 7.JUL.2016 20:00:13



Number of TX :	2	Ant. :	1
Test Mode :	802.11ac VHT40	Temperature :	21~25°C
Test Band :	2.4GHz Low	Relative Humidity :	51~54%
Test Channel :	03	Test Engineer :	Tommy Lee and Luffy Lin

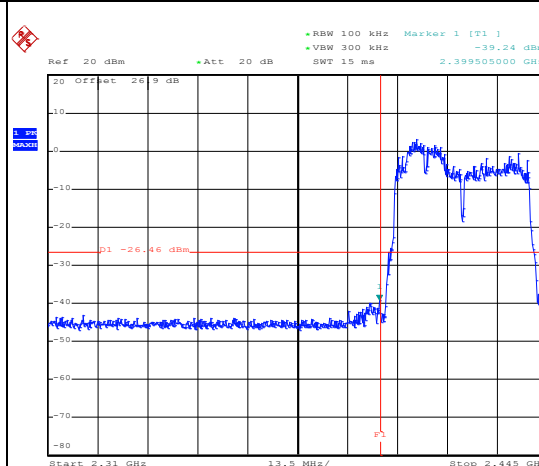
WLAN 802.11ac VHT40 Channel 03

100kHz PSD reference Level



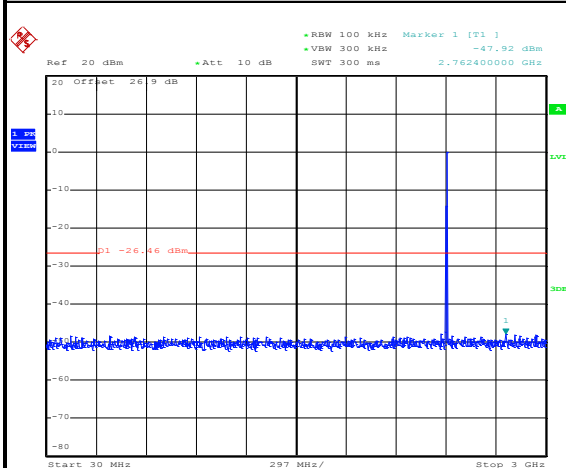
Date: 7.JUL.2016 16:45:31

Low Channel Plot



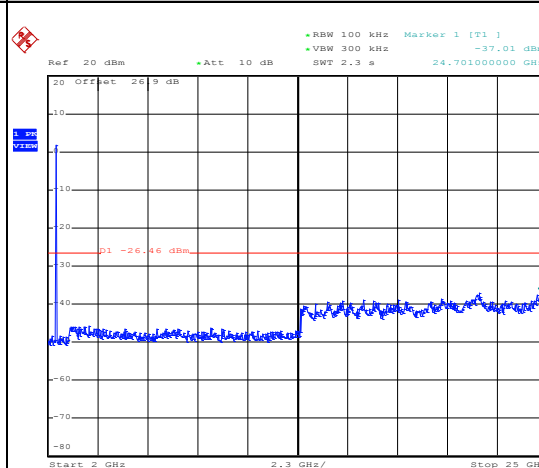
Date: 7.JUL.2016 16:46:11

Spurious Emission 30MHz~3GHz



Date: 7.JUL.2016 19:26:12

Spurious Emission 2GHz~25GHz



Date: 7.JUL.2016 19:27:07