



FCC Test Report

Equipment : AC900 High Power Wireless Dual Band Router
Brand Name : TP-LINK
Model No. : Archer C28HP
FCC ID : TE7C28HP
Standard : 47 CFR FCC Part 15.247
Operating Band : 2400 MHz – 2483.5 MHz
Function : Point-to-multipoint; Point-to-point
Applicant : TP-LINK TECHNOLOGIES CO., LTD.
Building 24 (floors 1,3,4,5) and 28 (floors1-4)
Central Science and Technology Park,Shennan Rd,
Nanshan, Shenzhen,China
Manufacturer : TP-LINK TECHNOLOGIES CO., LTD.
Building 24 (floors 1,3,4,5) and 28 (floors1-4)
Central Science and Technology Park,Shennan Rd,
Nanshan, Shenzhen,China

The product sample received on Jul. 20, 2016 and completely tested on Aug. 22, 2016. We, SPORTON, would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.10-2013 and shown 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.


Sam Chen
SPORTON INTERNATIONAL INC.





Table of Contents

- 1 GENERAL DESCRIPTION5**
- 1.1 Information.....5
- 1.2 Testing Applied Standards8
- 1.3 Testing Location Information8
- 1.4 Measurement Uncertainty9
- 2 TEST CONFIGURATION OF EUT10**
- 2.1 Test Channel Mode10
- 2.2 The Worst Case Measurement Configuration11
- 2.3 EUT Operation during Test12
- 2.4 Accessories12
- 2.5 Support Equipment.....13
- 2.6 Test Setup Diagram14
- 3 TRANSMITTER TEST RESULT17**
- 3.1 AC Power-line Conducted Emissions17
- 3.2 DTS Bandwidth19
- 3.3 Fundamental Emission Output Power.....20
- 3.4 Power Spectral Density22
- 3.5 Emissions in Non-restricted Frequency Bands24
- 3.6 Emissions in Restricted Frequency Bands.....25
- 4 TEST EQUIPMENT AND CALIBRATION DATA29**

APPENDIX A. TEST RESULTS OF AC POWER-LINE CONDUCTED EMISSIONS

APPENDIX B. TEST RESULTS OF DTS BANDWIDTH

APPENDIX C. TEST RESULTS OF FUNDAMENTAL EMISSION OUTPUT POWER

APPENDIX D. TEST RESULTS OF POWER SPECTRAL DENSITY

APPENDIX E. TEST RESULTS OF EMISSIONS IN NON-RESTRICTED FREQUENCY BANDS

APPENDIX F. TEST RESULTS OF EMISSIONS IN RESTRICTED FREQUENCY BANDS

APPENDIX G. TEST RESULTS OF RADIATED EMISSION CO-LOCATION

APPENDIX H. TEST PHOTOS



Summary of Test Result

Conformance Test Specifications				
Report Clause	Ref. Std. Clause	Description	Limit	Result
1.1.2	15.203	Antenna Requirement	FCC 15.203	Complied
3.1	15.207	AC Power-line Conducted Emissions	FCC 15.207	Complied
3.2	15.247(a)	DTS Bandwidth	≥500kHz	Complied
3.3	15.247(b)	Fundamental Emission Output Power	Power [dBm]:30	Complied
3.4	15.247(e)	Power Spectral Density	PSD [dBm/3kHz]:8	Complied
3.5	15.247(d)	Emissions in Non-restricted Frequency Bands	Non-Restricted Bands: > 30 dBc	Complied
3.6	15.247(d)	Emissions in Restricted Frequency Bands	Restricted Bands: FCC 15.209	Complied



1 General Description

1.1 Information

1.1.1 RF General Information

Frequency Range (MHz)	IEEE Std. 802.11	Ch. Frequency (MHz)	Channel Number
2400-2483.5	b, g, n (HT20)	2412-2462	1-11 [11]
2400-2483.5	n (HT40)	2422-2452	3-9 [7]

Band	Mode	BWch (MHz)	Cant
2.4G	11b	20	3
2.4G	11g	20	3
2.4G	HT20	20	3
2.4G	HT40	40	3

Note:

- 2.4G is the 2.4GHz Band (2.4-2.4835GHz).
- 11b mode uses a combination of DSSS-DBPSK, DQPSK, CCK modulation.
- 11g, HT20 and HT40 use a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM modulation.
- BWch is the nominal channel bandwidth.
- Nss-Min is the minimum number of spatial streams.
- Nant is the number of outputs. e.g., 2(2,3) means have 2 outputs for port 2 and port 3. 2 means have 2 outputs for port 1 and port 2.

1.1.2 Antenna Information

Ant.	Brand	Product Number	Type	Connector	Antenna Gain (dBi)		
					2.4GHz	5GHz Band 1	5GHz Band 4
1	TP-LINK	3101500905	Dipole	RP-SMA-F	6.45	4.54	3.34
2	TP-LINK	3101500905	Dipole	RP-SMA-F	6.45	-	-
3	TP-LINK	3101500905	Dipole	RP-SMA-F	6.45	-	-

Ant.	Cable Loss (dB)			True Gain (dBi)		
	2.4GHz	5GHz Band 1	5GHz Band 4	2.4GHz	5GHz Band 1	5GHz Band 4
1	0.80	1.40	1.40	5.65	3.14	1.94
2	0.80	-	-	5.65	-	-
3	0.90	-	-	5.64	-	-

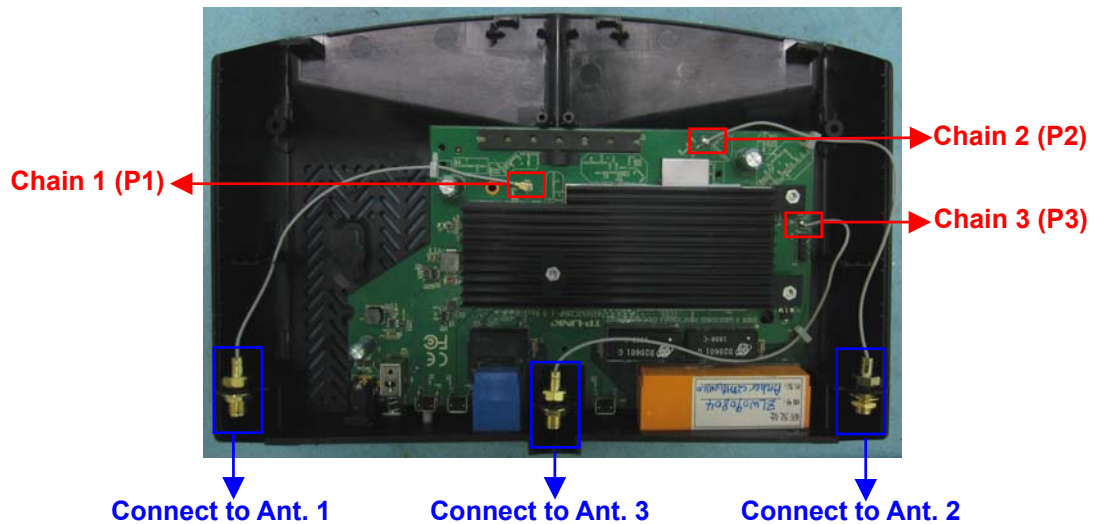
Note: The EUT has three antennas.

For 2.4GHz WLAN function (3TX/3RX):

Chain 1 (P1), Chain 2 (P2) and Chain 3 (P2) could transmit/receive simultaneously.

For 5GHz WLAN function (1TX/1RX):

Only Chain 1 (P1) can be used as transmitting/receiving.





1.1.3 Mode Test Duty Cycle

Mode	DC	T(s)	VBW(Hz) ≥ 1/T
11b	0.996	n/a (DC>=0.98)	n/a (DC>=0.98)
11g	0.978	2.025m	1k
HT20	0.973	1.889m	1k
HT40	0.962	928.75u	3k

1.1.4 EUT Operational Condition

EUT Power Type	From power adapter		
Beamforming Function	<input type="checkbox"/> With beamforming	<input checked="" type="checkbox"/> Without beamforming	



1.2 Testing Applied Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- ◆ 47 CFR FCC Part 15
- ◆ ANSI C63.10-2013
- ◆ FCC KDB 558074 D01 v03r05
- ◆ FCC KDB 662911 D01 v02r01

1.3 Testing Location Information

Testing Location		
<input type="checkbox"/>	HWA YA	ADD : No. 52, Hwa Ya 1st Rd., Kwei-Shan Hsiang, Tao Yuan Hsien, Taiwan, R.O.C. TEL : 886-3-327-3456 FAX : 886-3-318-0055
<input checked="" type="checkbox"/>	JHUBEI	ADD : No.8, Lane 724, Bo-ai St., Jhubei City, HsinChu County 302, Taiwan, R.O.C. TEL : 886-3-656-9065 FAX : 886-3-656-9085

Test Condition	Test Site No.	Test Engineer	Test Environment	Test Date
RF Conducted	TH01-CB	Wen Chao	24°C / 32%	Aug. 22, 2016
Radiated	03CH01-CB	Eason Chen, Peter Wu	22°C / 59%	Aug. 09, 2016~Aug. 13, 2016
AC Conduction	CO02-CB	Edison Lin	24°C / 61%	Aug. 03, 2016

Test site Designation No. TW0006 with FCC.
 Test site registered number IC 4086D with Industry Canada.



1.4 Measurement Uncertainty

ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report. The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor (k=2))

Test Items	Uncertainty	Remark
Conducted Emission (150kHz ~ 30MHz)	3.2 dB	Confidence levels of 95%
Radiated Emission (30MHz ~ 1,000MHz)	3.6 dB	Confidence levels of 95%
Radiated Emission (1GHz ~ 18GHz)	3.7 dB	Confidence levels of 95%
Radiated Emission (18GHz ~ 40GHz)	3.5 dB	Confidence levels of 95%
Conducted Emission	1.7 dB	Confidence levels of 95%



2 Test Configuration of EUT

2.1 Test Channel Mode

Band	Mode	BWch (MHz)	Nss-Min	Nant	Ch. (MHz)	Range	Power Setting
2.4G	11b	20	1	3	2412	L	18.5
2.4G	11b	20	1	3	2437	M	23
2.4G	11b	20	1	3	2462	H	21
2.4G	11g	20	1	3	2412	L	17.5
2.4G	11g	20	1	3	2437	M	20.5
2.4G	11g	20	1	3	2462	H	15
2.4G	HT20	20	1,(M0)	3	2412	L	17
2.4G	HT20	20	1,(M0)	3	2437	M	22.5
2.4G	HT20	20	1,(M0)	3	2462	H	15.5
2.4G	HT40	40	1,(M0)	3	2422	L	12.5
2.4G	HT40	40	1,(M0)	3	2437	M	18.5
2.4G	HT40	40	1,(M0)	3	2452	H	13.5

2.2 The Worst Case Measurement Configuration

The Worst Case Mode for Following Conformance Tests	
Tests Item	AC power-line conducted emissions
Condition	AC power-line conducted measurement for line and neutral
Operating Mode	Normal Link
There are three modes of EUT (AP mode, Repeater mode and Bridge mode) Only the most complex mode for Repeater mode was performed for all the tests and recorded in this report.	
1	Repeater mode

The Worst Case Mode for Following Conformance Tests	
Tests Item	DTS Bandwidth Fundamental Emission Output Power Power Spectral Density
Test Condition	Conducted measurement at transmit chains

The Worst Case Mode for Following Conformance Tests	
Tests Item	Emissions in Non-restricted Frequency Bands Emissions in Restricted Frequency Bands
Test Condition	Radiated measurement If EUT consist of multiple antenna assembly (multiple antenna are used in EUT regardless of spatial multiplexing MIMO configuration), the radiated test should be performed with highest antenna gain of each antenna type.
Operating Mode < 1GHz	Normal Link
There are three modes of EUT (AP mode, Repeater mode and Bridge mode) Only the most complex mode for Repeater mode was performed for all the tests and recorded in this report.	
1	EUT Y axis-Repeater mode
2	EUT Z axis-Repeater mode
For operating mode 2 is the worst case and it was record in this test report.	
Operating Mode > 1GHz	CTX
There are two modes of EUT, one is EUT Y axis, and the other is EUT Z axis, after evaluating, EUT Z axis has been evaluated to be the worst case, so it was selected to test and record in this test report.	
1	EUT Z axis



The Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis
Test Condition	Radiated measurement
Operating Mode	Normal Link
There are three modes of EUT (AP mode, Repeater mode and Bridge mode) Only the most complex mode for Repeater mode was performed for all the tests and recorded in this report.	
1	EUT Y axis+WLAN 2.4GHz+WLAN 5GHz-Repeater mode
2	EUT Z axis+WLAN 2.4GHz+WLAN 5GHz-Repeater mode
For operating mode 1 is the worst case and it was record in this test report.	
Refer to Sporton Test Report No.: FA652029 for Co-location RF Exposure Evaluation and Appendix G for Radiated Emission Co-location.	

2.3 EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

2.4 Accessories

Accessories			
Power	Brand	Model No.	Rating
Adapter	TP-LINK	T120150-2B1	Input: 100-240Vac, 50/60Hz, 0.6A Output: 12Vdc, 1.5A



2.5 Support Equipment

For Test Site No: CO02-CB

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
1	NB*4	DELL	E6430	DoC
2	AP Router	Planex	GW-AP54SGX	KA220030603014-1

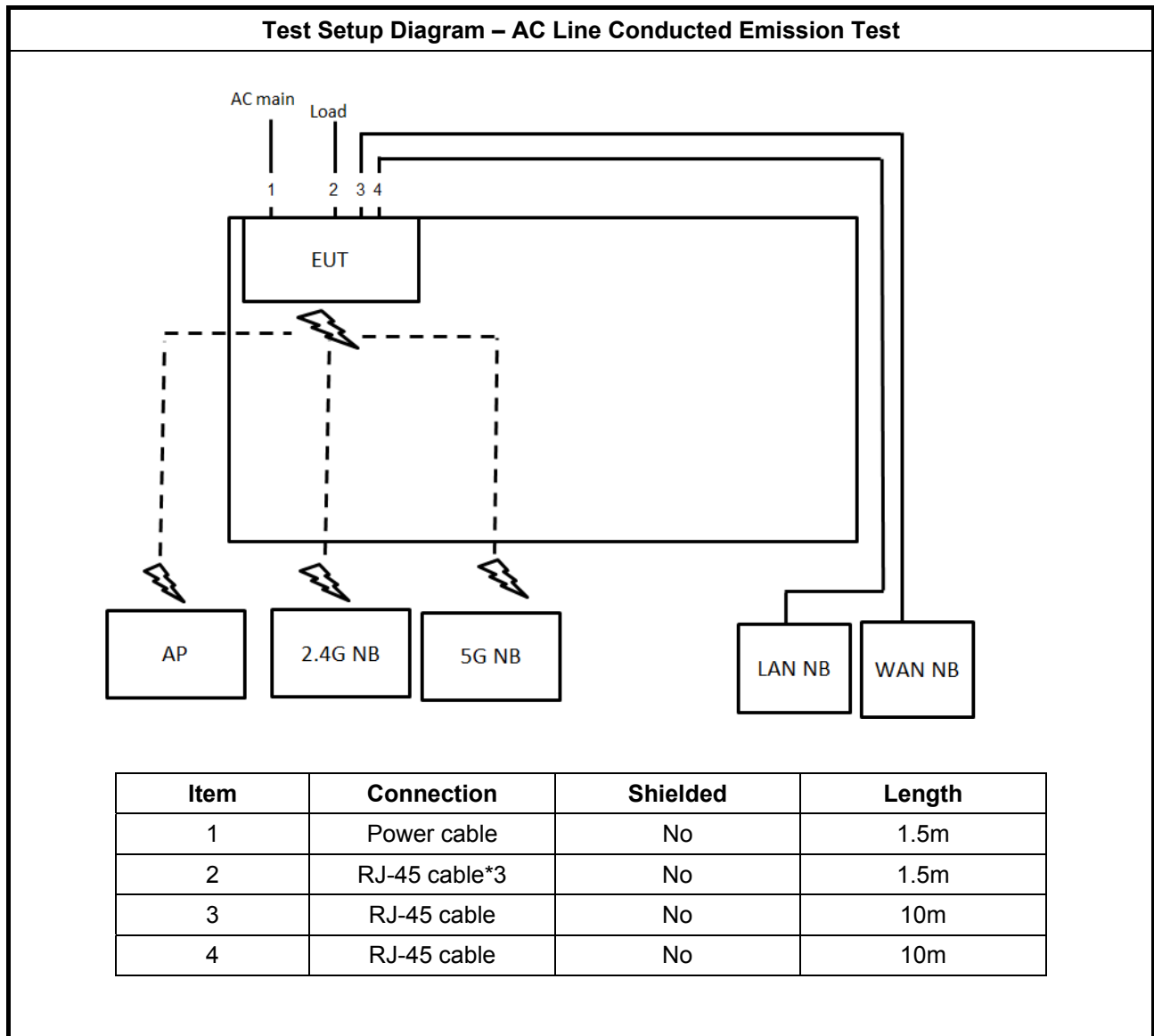
For Test Site No: 03CH01-CB (below 1GHz)

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
1	NB*4	DELL	E4300	DoC
2	WLAN AP	D-LINK	DIR860L	KA21R860LA1

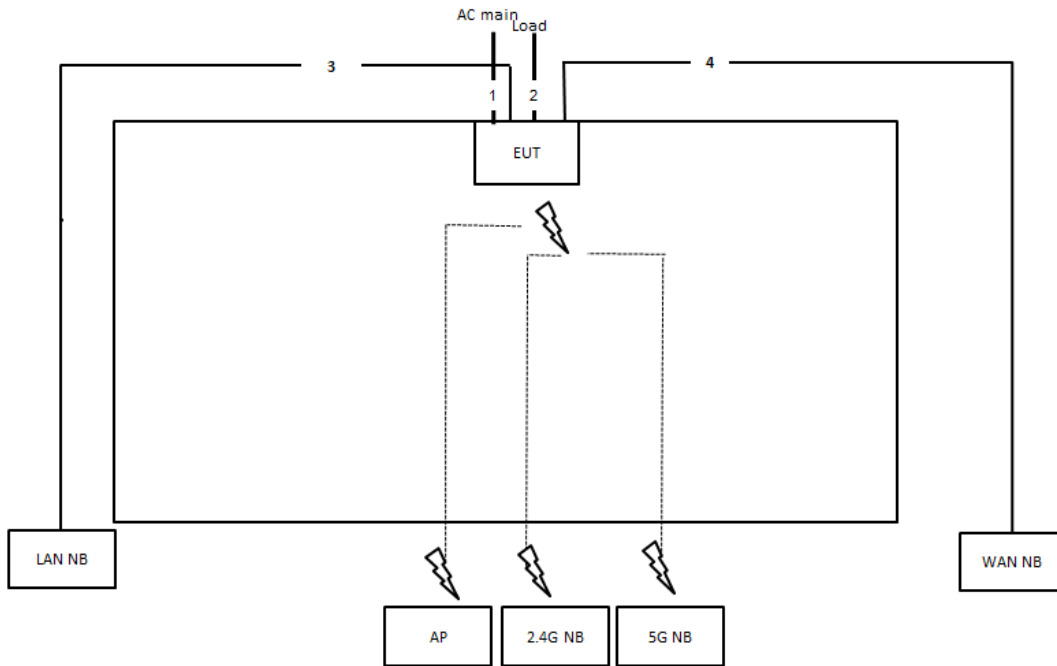
For Test Site No: 03CH01-CB (above 1GHz) and TH01-CB

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
1	NB	DELL	E4300	DoC

2.6 Test Setup Diagram

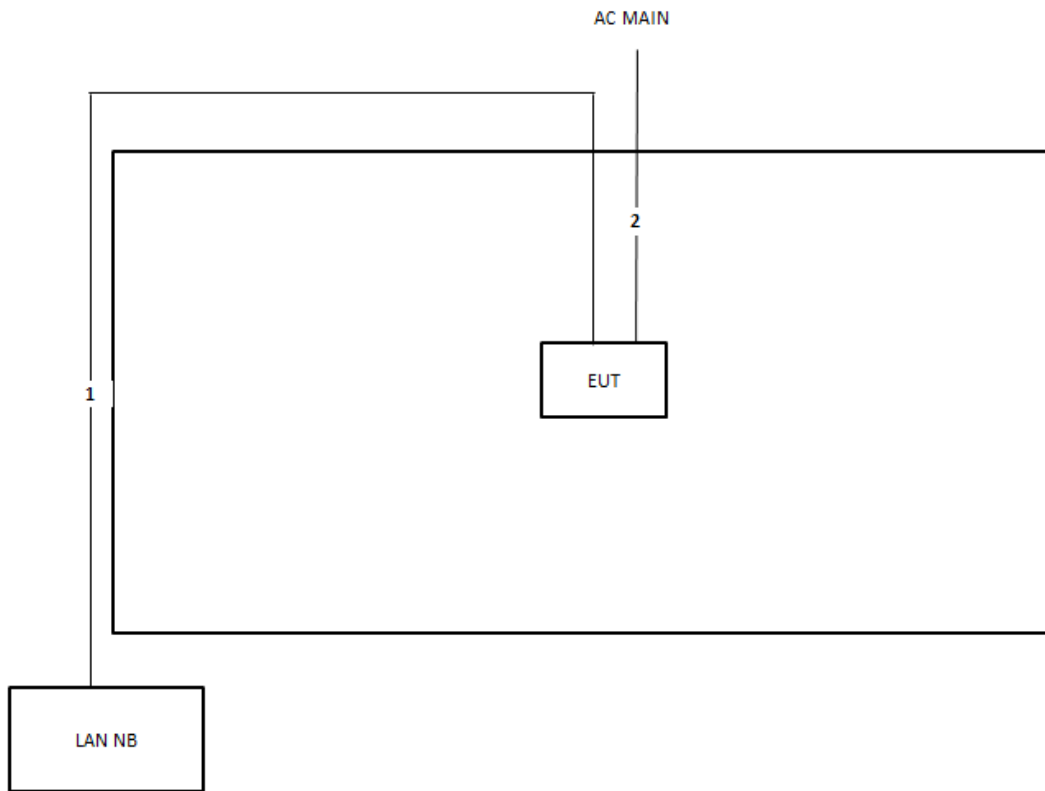


Test Setup Diagram - Radiated Test < 1GHz



Item	Connection	Shielded	Length
1	Power cable	No	1.5m
2	RJ-45 cable*3	No	1.5m
3	RJ-45 cable	No	10m
4	RJ-45 cable	No	10m

Test Setup Diagram - Radiated Test > 1GHz



Item	Connection	Shielded	Length
1	RJ-45 cable	No	10m
2	Power cable	No	1.5m

3 Transmitter Test Result

3.1 AC Power-line Conducted Emissions

3.1.1 AC Power-line Conducted Emissions Limit

AC Power-line Conducted Emissions Limit		
Frequency Emission (MHz)	Quasi-Peak	Average
0.15-0.5	66 - 56 *	56 - 46 *
0.5-5	56	46
5-30	60	50

Note 1: * Decreases with the logarithm of the frequency.

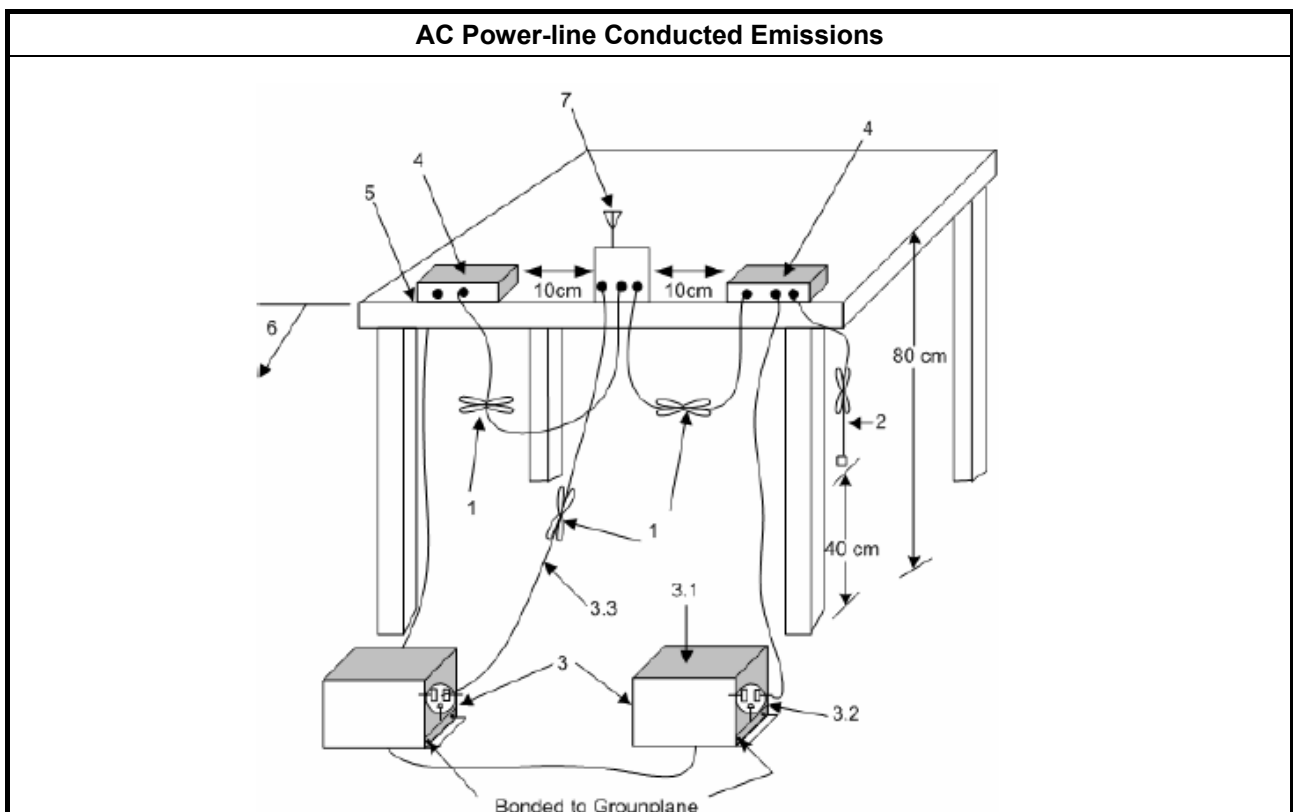
3.1.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

3.1.3 Test Procedures

Test Method
<input checked="" type="checkbox"/> Refer as ANSI C63.10-2013, clause 6.2 for AC power-line conducted emissions.

3.1.4 Test Setup





3.1.5 Test Result of AC Power-line Conducted Emissions

Refer as Appendix A

3.2 DTS Bandwidth

3.2.1 6dB Bandwidth Limit

6dB Bandwidth Limit
Systems using digital modulation techniques:
<ul style="list-style-type: none"> ▪ 6 dB bandwidth \geq 500 kHz.

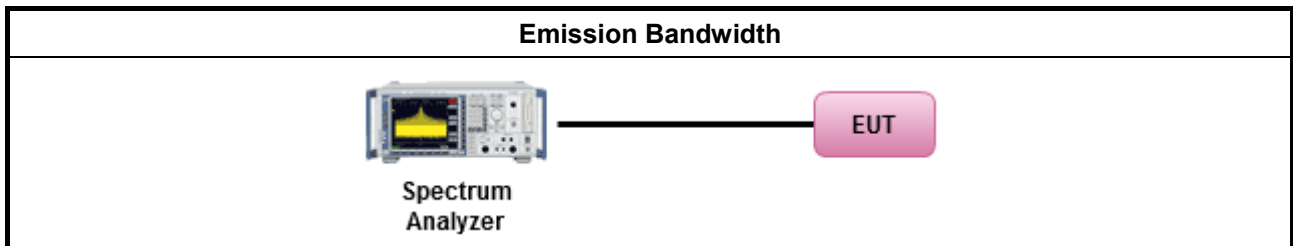
3.2.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

3.2.3 Test Procedures

Test Method
<ul style="list-style-type: none"> ▪ For the emission bandwidth shall be measured using one of the options below:
<input checked="" type="checkbox"/> Refer as FCC KDB 558074, clause 8.1 Option 1 for 6 dB bandwidth measurement.
<input type="checkbox"/> Refer as FCC KDB 558074, clause 8.2 Option 2 for 6 dB bandwidth measurement.
<input type="checkbox"/> Refer as ANSI C63.10, clause 6.9.1 for occupied bandwidth testing.

3.2.4 Test Setup



3.2.5 Test Result of Emission Bandwidth

Refer as Appendix B

3.3 Fundamental Emission Output Power

3.3.1 Fundamental Emission Output Power Limit

Maximum Conducted Output Power Limit	
	<ul style="list-style-type: none"> ▪ If $G_{TX} \leq 6$ dBi, then $P_{Out} \leq 30$ dBm (1 W)
	<ul style="list-style-type: none"> ▪ Point-to-multipoint systems (P2M): If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)$ dBm
	<ul style="list-style-type: none"> ▪ Point-to-point systems (P2P): If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)/3$ dBm
	<ul style="list-style-type: none"> ▪ Smart antenna system (SAS): <ul style="list-style-type: none"> - Single beam: If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)/3$ dBm - Overlap beam: If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)/3$ dBm - Aggregate power on all beams: If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)/3 + 8$ dB dBm
<p>P_{Out} = maximum peak conducted output power or maximum conducted output power in dBm, G_{TX} = the maximum transmitting antenna directional gain in dBi.</p>	

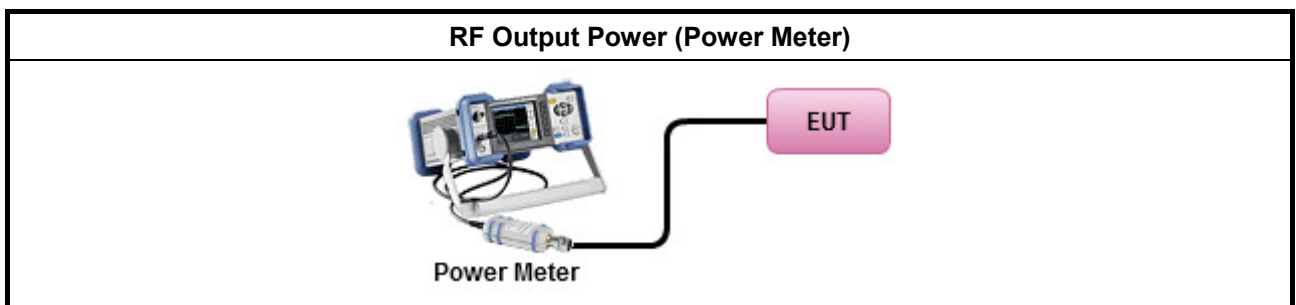
3.3.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

3.3.3 Test Procedures

Test Method	
<ul style="list-style-type: none"> ▪ Maximum Peak Conducted Output Power 	
<input type="checkbox"/>	Refer as FCC KDB 558074, clause 9.1.1 Option 1 (RBW ≥ EBW method).
<input type="checkbox"/>	Refer as FCC KDB 558074, clause 9.1.2 Option 2 (peak power meter for VBW ≥ DTS BW)
<ul style="list-style-type: none"> ▪ Maximum Conducted Output Power 	
[duty cycle ≥ 98% or external video / power trigger]	
<input type="checkbox"/>	Refer as FCC KDB 558074, clause 9.2.2.2 Method AVGSA-1 (spectral trace averaging).
<input type="checkbox"/>	Refer as FCC KDB 558074, clause 9.2.2.3 Method AVGSA-1 Alt. (slow sweep speed)
duty cycle < 98% and average over on/off periods with duty factor	
<input type="checkbox"/>	Refer as FCC KDB 558074, clause 9.2.2.4 Method AVGSA-2 (spectral trace averaging).
<input type="checkbox"/>	Refer as FCC KDB 558074, clause 9.2.2.5 Method AVGSA-2 Alt. (slow sweep speed)
RF power meter and average over on/off periods with duty factor or gated trigger	
<input checked="" type="checkbox"/>	Refer as FCC KDB 558074, clause 9.2.3 Method AVGPM-G (using an RF average power meter).
<ul style="list-style-type: none"> ▪ For conducted measurement. 	
<ul style="list-style-type: none"> ▪ If the EUT supports multiple transmit chains using options given below: Refer as FCC KDB 662911, In-band power measurements. Using the measure-and-sum approach, measured all transmit ports individually. Sum the power (in linear power units e.g., mW) of all ports for each individual sample and save them. 	
<ul style="list-style-type: none"> ▪ If multiple transmit chains, EIRP calculation could be following as methods: $P_{total} = P_1 + P_2 + \dots + P_n$ (calculated in linear unit [mW] and transfer to log unit [dBm]) $EIRP_{total} = P_{total} + DG$ 	

3.3.4 Test Setup



3.3.5 Test Result of Maximum Conducted Output Power

Refer as Appendix C



3.4 Power Spectral Density

3.4.1 Power Spectral Density Limit

Power Spectral Density Limit
<ul style="list-style-type: none"> ▪ Power Spectral Density (PSD) \leq 8 dBm/3kHz

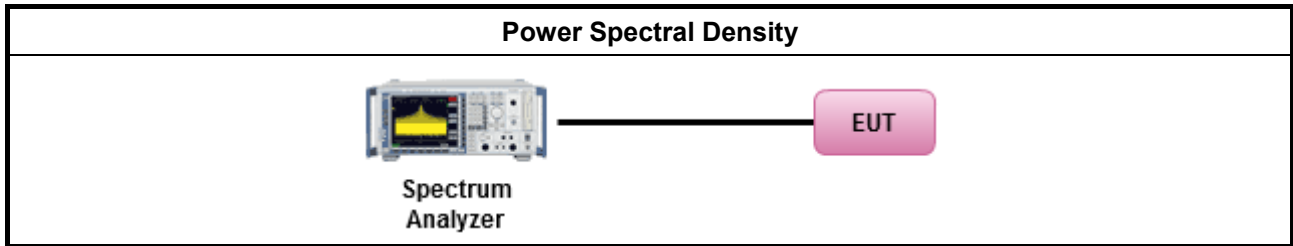
3.4.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

3.4.3 Test Procedures

Test Method
<ul style="list-style-type: none"> ▪ Peak power spectral density procedures that the same method as used to determine the conducted output power. If maximum peak conducted output power was measured to demonstrate compliance to the output power limit, then the peak PSD procedure below (Method PKPSD) shall be used. If maximum conducted output power was measured to demonstrate compliance to the output power limit, then one of the average PSD procedures shall be used, as applicable based on the following criteria (the peak PSD procedure is also an acceptable option).
<input checked="" type="checkbox"/> Refer as FCC KDB 558074, clause 10.2 Method PKPSD (RBW=3-100kHz; Detector=peak). [duty cycle \geq 98% or external video / power trigger]
<input type="checkbox"/> Refer as FCC KDB 558074, clause 10.3 Method AVGPSD-1 (spectral trace averaging).
<input type="checkbox"/> Refer as FCC KDB 558074, clause 10.4 Method AVGPSD-2 (slow sweep speed) duty cycle < 98% and average over on/off periods with duty factor
<input type="checkbox"/> Refer as FCC KDB 558074, clause 10.5 Method AVGPSD-1 Alt (spectral trace averaging).
<input type="checkbox"/> Refer as FCC KDB 558074, clause 10.6 Method AVGPSD-2 Alt. (slow sweep speed)
<ul style="list-style-type: none"> ▪ For conducted measurement.
<ul style="list-style-type: none"> ▪ If The EUT supports multiple transmit chains using options given below: <ul style="list-style-type: none"> <input checked="" type="checkbox"/> Option 1: Measure and sum the spectra across the outputs. Refer as FCC KDB 662911, In-band power spectral density (PSD). Sample all transmit ports simultaneously using a spectrum analyzer for each transmit port. Where the trace bin-by-bin of each transmit port summing can be performed. (i.e., in the first spectral bin of output 1 is summed with that in the first spectral bin of output 2 and that from the first spectral bin of output 3, and so on up to the NTX output to obtain the value for the first frequency bin of the summed spectrum.). Add up the amplitude (power) values for the different transmit chains and use this as the new data trace. <input type="checkbox"/> Option 2: Measure and sum spectral maxima across the outputs. With this technique, spectra are measured at each output of the device at the required resolution bandwidth. The maximum value (peak) of each spectrum is determined. These maximum values are then summed mathematically in linear power units across the outputs. These operations shall be performed separately over frequency spans that have different out-of-band or spurious emission limits, <input type="checkbox"/> Option 3: Measure and add 10 log(N) dB, where N is the number of transmit chains. Refer as FCC KDB 662911, In-band power spectral density (PSD). Performed at each transmit chains and each transmit chains shall be compared with the limit have been reduced with 10 log(N). Or each transmit chains shall be add 10 log(N) to compared with the limit.

3.4.4 Test Setup



3.4.5 Test Result of Power Spectral Density

Refer as Appendix D

3.5 Emissions in Non-restricted Frequency Bands

3.5.1 Emissions in Non-restricted Frequency Bands Limit

Un-restricted Band Emissions Limit	
RF output power procedure	Limit (dB)
Peak output power procedure	20
Average output power procedure	30

Note 1: If the peak output power procedure is used to measure the fundamental emission power to demonstrate compliance to requirements, then the peak conducted output power measured within any 100 kHz outside the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum measured in-band peak PSD level.

Note 2: If the average output power procedure is used to measure the fundamental emission power to demonstrate compliance to requirements, then the power in any 100 kHz outside of the authorized frequency band shall be attenuated by at least 30 dB relative to the maximum measured in-band average PSD level.

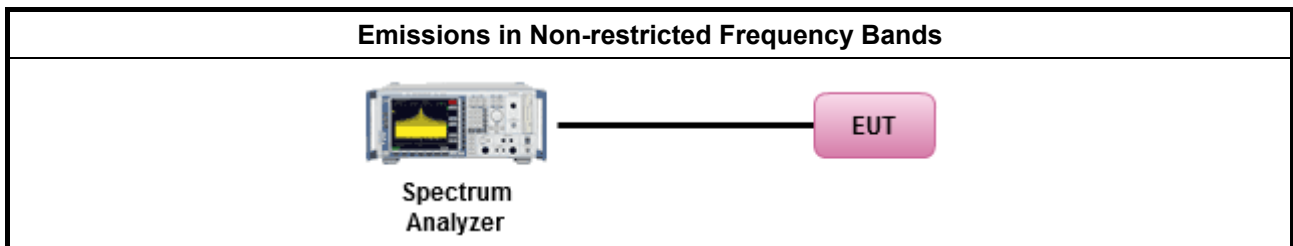
3.5.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

3.5.3 Test Procedures

Test Method
<ul style="list-style-type: none"> Refer as FCC KDB 558074, clause 11 for unwanted emissions into non-restricted bands.

3.5.4 Test Setup



3.5.5 Test Result of Emissions in Non-restricted Frequency Bands

Refer as Appendix E

3.6 Emissions in Restricted Frequency Bands

3.6.1 Emissions in Restricted Frequency Bands Limit

Restricted Band Emissions Limit			
Frequency Range (MHz)	Field Strength (uV/m)	Field Strength (dBuV/m)	Measure Distance (m)
0.009~0.490	2400/F(kHz)	48.5 - 13.8	300
0.490~1.705	24000/F(kHz)	33.8 - 23	30
1.705~30.0	30	29	30
30~88	100	40	3
88~216	150	43.5	3
216~960	200	46	3
Above 960	500	54	3

Note 1: Test distance for frequencies at or above 30 MHz, measurements may be performed at a distance other than the limit distance provided they are not performed in the near field and the emissions to be measured can be detected by the measurement equipment. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse of linear distance for field-strength measurements, inverse of linear distance-squared for power-density measurements).

Note 2: Test distance for frequencies at below 30 MHz, measurements may be performed at a distance closer than the EUT limit distance; however, an attempt should be made to avoid making measurements in the near field. When performing measurements below 30 MHz at a closer distance than the limit distance, the results shall be extrapolated to the specified distance by either making measurements at a minimum of two or more distances on at least one radial to determine the proper extrapolation factor or by using the square of an inverse linear distance extrapolation factor (40 dB/decade). The test report shall specify the extrapolation method used to determine compliance of the EUT.

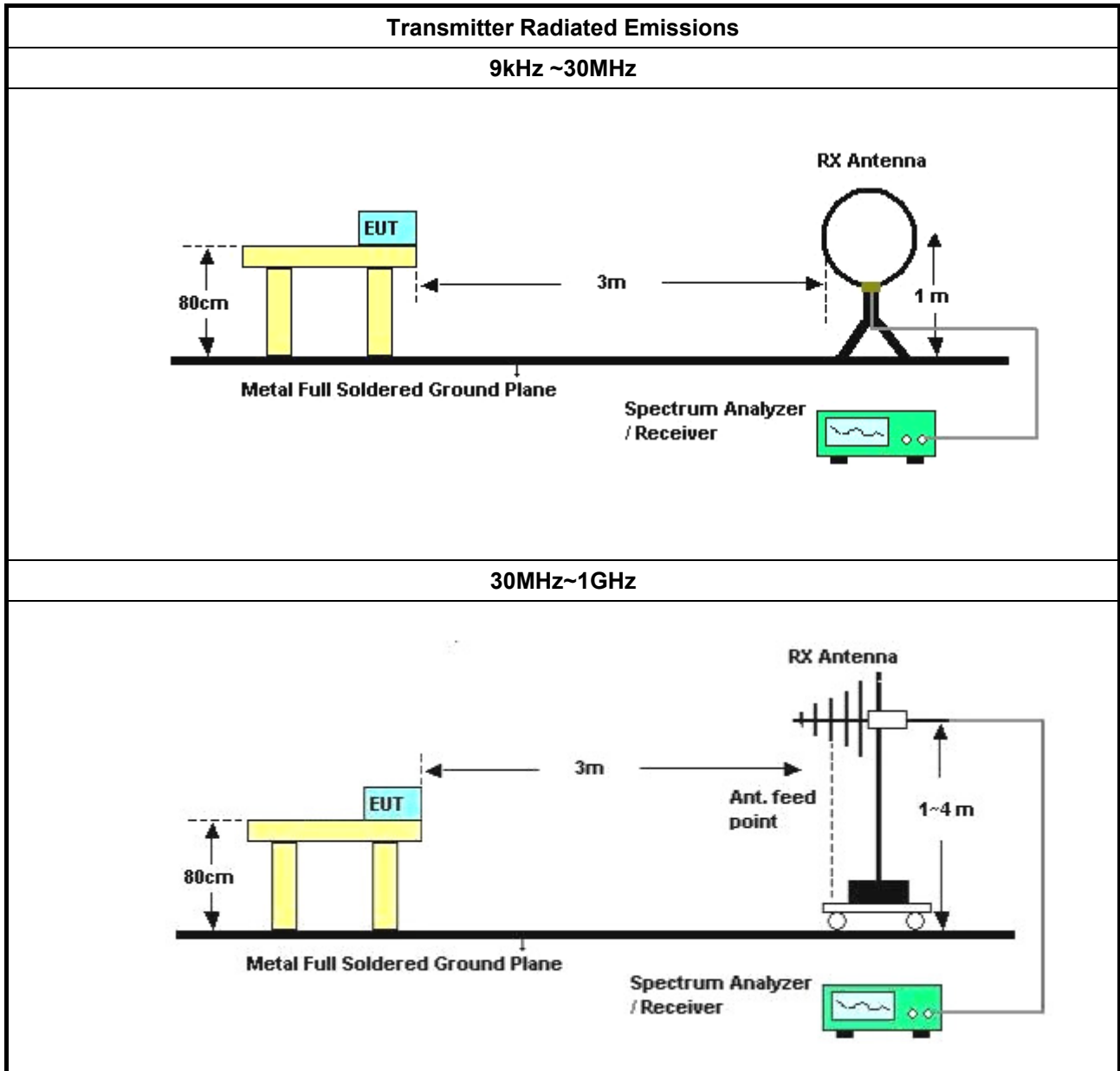
3.6.2 Measuring Instruments

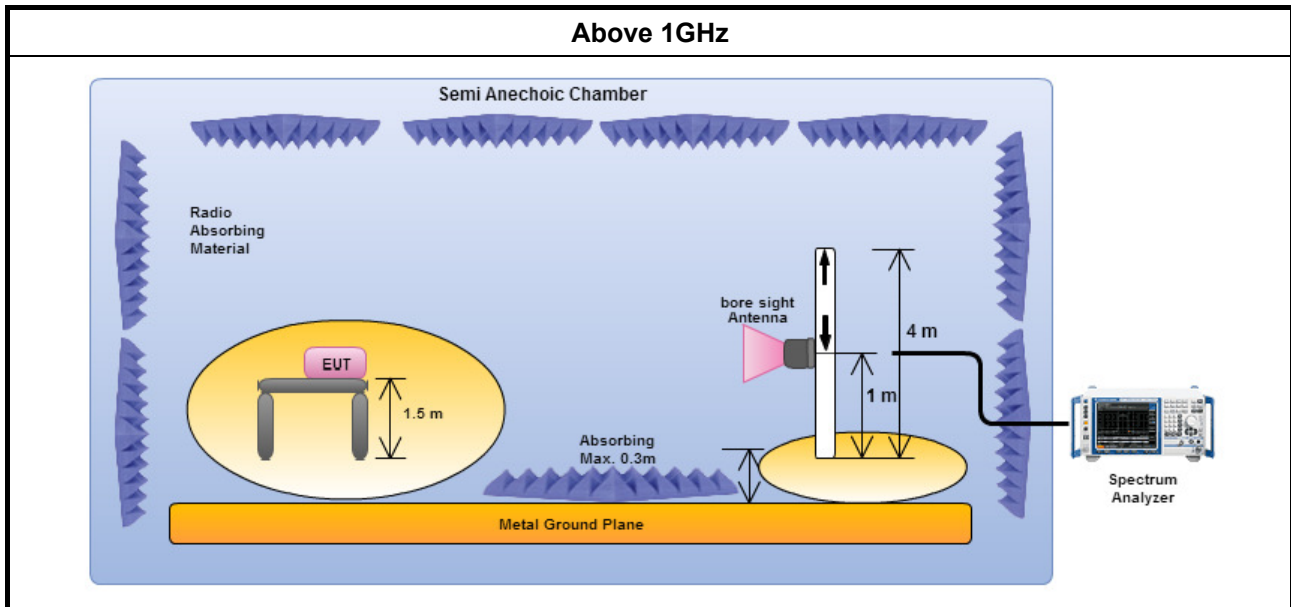
Refer a test equipment and calibration data table in this test report.

3.6.3 Test Procedures

Test Method	
<ul style="list-style-type: none"> ▪ The average emission levels shall be measured in [duty cycle ≥ 98 or duty factor]. 	
<ul style="list-style-type: none"> ▪ Refer as ANSI C63.10, clause 6.9.2.2 band-edge testing shall be performed at the lowest frequency channel and highest frequency channel within the allowed operating band. 	
<ul style="list-style-type: none"> ▪ For the transmitter unwanted emissions shall be measured using following options below: 	
	<ul style="list-style-type: none"> ▪ Refer as FCC KDB 558074, clause 12 for unwanted emissions into restricted bands.
	<input type="checkbox"/> Refer as FCC KDB 558074, clause 12.2.5.1 Option 1 (trace averaging for duty cycle $\geq 98\%$)
	<input type="checkbox"/> Refer as FCC KDB 558074, clause 12.2.5.2 Option 2 (trace averaging + duty factor).
	<input checked="" type="checkbox"/> Refer as FCC KDB 558074, clause 12.2.5.3 Option 3 (Reduced VBW $\geq 1/T$).
	<input type="checkbox"/> Refer as ANSI C63.10, clause 4.2.3.2.3 (Reduced VBW). VBW $\geq 1/T$, where T is pulse time.
	<input type="checkbox"/> Refer as ANSI C63.10, clause 4.2.3.2.4 average value of pulsed emissions.
	<input checked="" type="checkbox"/> Refer as FCC KDB 558074, clause 12.2.4 measurement procedure peak limit.
<ul style="list-style-type: none"> ▪ For the transmitter band-edge emissions shall be measured using following options below: 	
	<ul style="list-style-type: none"> ▪ Refer as FCC KDB 558074 clause 13.1, When the performing peak or average radiated measurements, emissions within 2 MHz of the authorized band edge may be measured using the marker-delta method described below.
	<ul style="list-style-type: none"> ▪ Refer as FCC KDB 558074, clause 13.2 (ANSI C63.10, clause 6.9.3) for marker-delta method for band-edge measurements.
	<ul style="list-style-type: none"> ▪ Refer as FCC KDB 558074, clause 13.3 for narrower resolution bandwidth (100kHz) using the band power and summing the spectral levels (i.e., 1 MHz).
<ul style="list-style-type: none"> ▪ For conducted and cabinet radiation measurement, refer as FCC KDB 558074, clause 12.2.2. 	
	<ul style="list-style-type: none"> ▪ For conducted unwanted emissions into restricted bands (absolute emission limits). Devices with multiple transmit chains using options given below: (1) Measure and sum the spectra across the outputs or (2) Measure and add 10 log(N) dB
	<ul style="list-style-type: none"> ▪ For FCC KDB 662911 The methodology described here may overestimate array gain, thereby resulting in apparent failures to satisfy the out-of-band limits even if the device is actually compliant. In such cases, compliance may be demonstrated by performing radiated tests around the frequencies at which the apparent failures occurred.

3.6.4 Test Setup





3.6.5 Transmitter Radiated Unwanted Emissions (Below 30MHz)

All amplitude of spurious emissions that are attenuated by more than 20 dB below the permissible value has no need to be reported.

3.6.6 Test Result of Transmitter Radiated Unwanted Emissions

Refer as Appendix F



4 Test Equipment and Calibration Data

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Remark
LISN	Schwarzbeck	NSLK 8127	8127650	9kHz ~ 30MHz	Nov. 16, 2015	Conduction (CO02-CB)
LISN	Schwarzbeck	NSLK 8127	8127478	9kHz ~ 30MHz	Nov. 13, 2015	Conduction (CO02-CB)
EMI Receiver	Agilent	N9038A	MY52260140	9kHz ~ 8.4GHz	Jan. 18, 2016	Conduction (CO02-CB)
COND Cable	Woken	Cable	01	0.15MHz ~ 30MHz	Dec. 01, 2015	Conduction (CO02-CB)
Software	Audix	E3	6.120210n	-	N.C.R.	Conduction (CO02-CB)
Pulse Limiter	Schwarzbeck	VTSD 9561F	9561-F073	9kHz ~ 30MHz	Sep. 30, 2015	Conduction (CO02-CB)
Bilog Antenna	TESEQ	CBL6112D	37880	20MHz ~ 2GHz	Sep. 03, 2015	Radiation (03CH01-CB)
Horn Antenna	EMCO	3115	00075790	750MHz ~ 18GHz	Oct. 22, 2015	Radiation (03CH01-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Jul. 25, 2016	Radiation (03CH01-CB)
Pre-Amplifier	Agilent	8447D	2944A10991	0.1MHz ~ 1.3GHz	Mar. 15, 2016	Radiation (03CH01-CB)
Pre-Amplifier	Agilent	8449B	3008A02310	1GHz ~ 26.5GHz	Jan. 18, 2016	Radiation (03CH01-CB)
Pre-Amplifier	WM	TF-130N-R1	923365	26GHz ~ 40GHz	Nov. 13, 2015	Radiation (03CH01-CB)
Spectrum Analyzer	R&S	FSP40	100056	9kHz ~ 40GHz	Oct. 27, 2015	Radiation (03CH01-CB)
EMI Test	R&S	ESCS	100355	9kHz ~ 2.75GHz	May 16, 2016	Radiation (03CH01-CB)
RF Cable-low	Woken	Low Cable-1	N/A	30 MHz ~ 1 GHz	Nov. 02, 2015	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-16	N/A	1 GHz ~ 18 GHz	Nov. 02, 2015	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-17	N/A	1 GHz ~ 18 GHz	Nov. 02, 2015	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-40G-1	N/A	18GHz ~ 40 GHz	Nov. 02, 2015	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-40G-2	N/A	18GHz ~ 40 GHz	Nov. 02, 2015	Radiation (03CH01-CB)
Test Software	Audix	E3	6.2009-I0-7	N/A	N/A	Radiation (03CH01-CB)
Loop Antenna	Teseq	HLA 6120	24155	9kHz - 30 MHz	Mar. 16, 2016*	Radiation (03CH01-CB)
Spectrum analyzer	R&S	FSV40	100979	9kHz~40GHz	Dec. 09, 2015	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-6	1 GHz ~ 26.5 GHz	Nov. 02, 2015	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-7	1 GHz ~ 26.5 GHz	Nov. 02, 2015	Conducted (TH01-CB)



Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Remark
RF Cable-high	Woken	RG402	High Cable-8	1 GHz – 26.5 GHz	Nov. 02, 2015	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-9	1 GHz – 26.5 GHz	Nov. 02, 2015	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-10	1 GHz – 26.5 GHz	Nov. 02, 2015	Conducted (TH01-CB)
Power Sensor	Agilent	U2021XA	MY53410001	50MHz~18GHz	Nov. 02, 2015	Conducted (TH01-CB)

Note: Calibration Interval of instruments listed above is one year.

“**” Calibration Interval of instruments listed above is two years.

N.C.R. means Non-Calibration required.



AC Power-line Conducted Emissions Result							
Operating Mode	1	Power Phase	Neutral				
Operating Function	Normal Link						
Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Remark	Pol/Phase
MHz	dBuV	dB	dBuV	dBuV	dB		
1	0.1540	36.17	-19.61	55.78	26.05	9.96 Average	NEUTRAL
2	0.1540	44.39	-21.39	65.78	34.27	9.96 QP	NEUTRAL
3	0.2040	33.22	-20.23	53.45	23.08	9.96 Average	NEUTRAL
4	0.2040	42.45	-21.00	63.45	32.31	9.96 QP	NEUTRAL
5	0.5074	30.40	-15.60	46.00	20.23	9.97 Average	NEUTRAL
6	0.5074	36.35	-19.65	56.00	26.18	9.97 QP	NEUTRAL
7	0.7835	27.62	-18.38	46.00	17.46	9.97 Average	NEUTRAL
8	0.7835	34.39	-21.61	56.00	24.23	9.97 QP	NEUTRAL
9	2.7212	22.19	-23.81	46.00	11.90	10.00 Average	NEUTRAL
10	2.7212	29.86	-26.14	56.00	19.57	10.00 QP	NEUTRAL
11	13.9146	27.22	-22.78	50.00	16.58	10.21 Average	NEUTRAL
12	13.9146	34.29	-25.71	60.00	23.65	10.21 QP	NEUTRAL

Note 1: ">20dB" means emission levels that exceeded the level of 20 dB below the applicable limit.
 Note 2: "N/F" means Nothing Found emissions (No emissions were detected.)

AC Power-line Conducted Emissions Result							
Operating Mode	1	Power Phase	Line				
Operating Function	Normal Link						
Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Remark	Pol/Phase
MHz	dBuV	dB	dBuV	dBuV	dB		
1	0.2139	31.48	-21.57	53.05	21.34	9.96 Average	LINE
2	0.2139	38.52	-24.53	63.05	28.38	9.96 QP	LINE
3	0.4444	29.24	-17.74	46.98	19.03	10.01 Average	LINE
4	0.4444	36.04	-20.94	56.98	25.83	10.01 QP	LINE
5	0.5436	28.92	-17.08	46.00	18.70	10.02 Average	LINE
6	0.5436	36.08	-19.92	56.00	25.86	10.02 QP	LINE
7	3.3814	25.83	-20.17	46.00	15.42	10.10 Average	LINE
8	3.3814	33.27	-22.73	56.00	22.86	10.10 QP	LINE
9	4.9782	26.42	-19.58	46.00	15.96	10.12 Average	LINE
10	4.9782	33.71	-22.29	56.00	23.25	10.12 QP	LINE
11	9.7567	28.68	-21.32	50.00	18.15	10.15 Average	LINE
12	9.7567	35.67	-24.33	60.00	25.14	10.15 QP	LINE

Note 1: ">20dB" means emission levels that exceeded the level of 20 dB below the applicable limit.
 Note 2: "N/F" means Nothing Found emissions (No emissions were detected.)

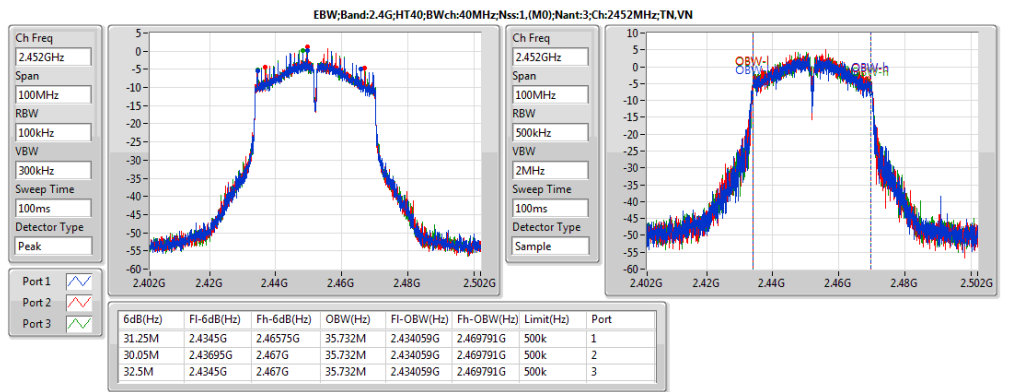
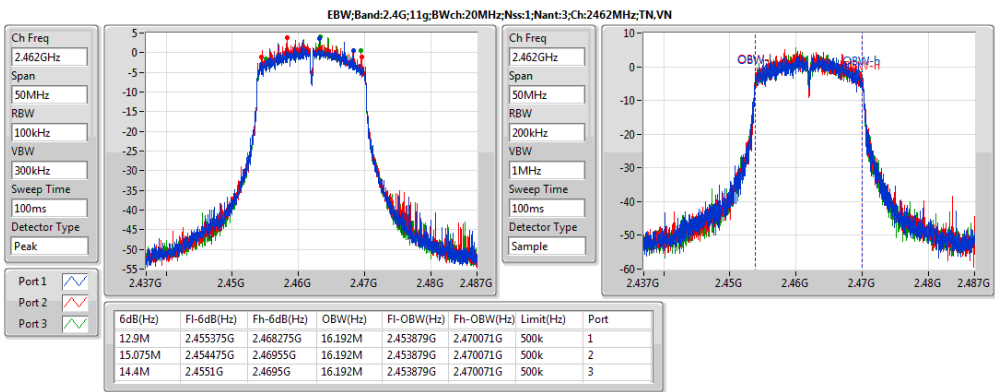
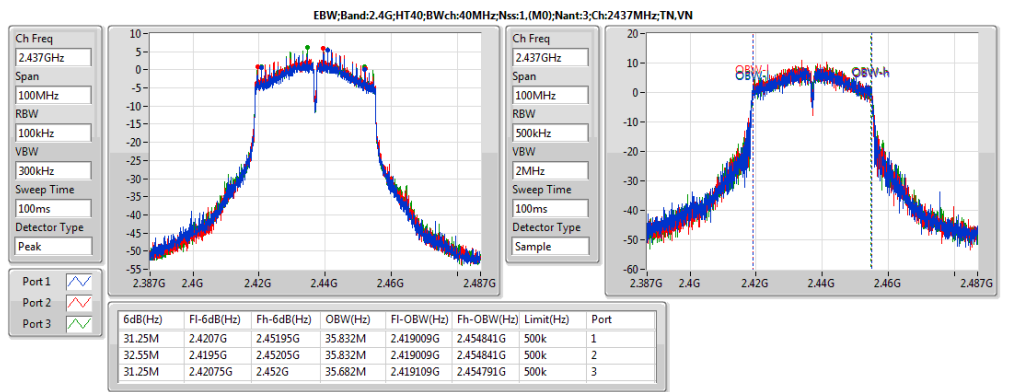
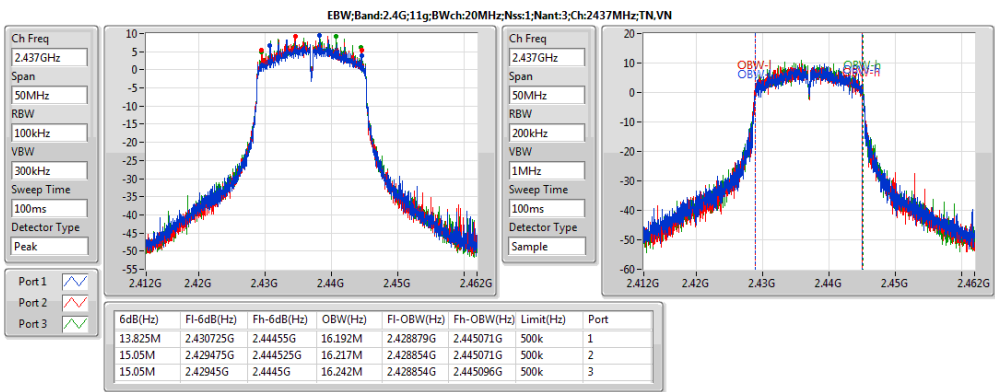
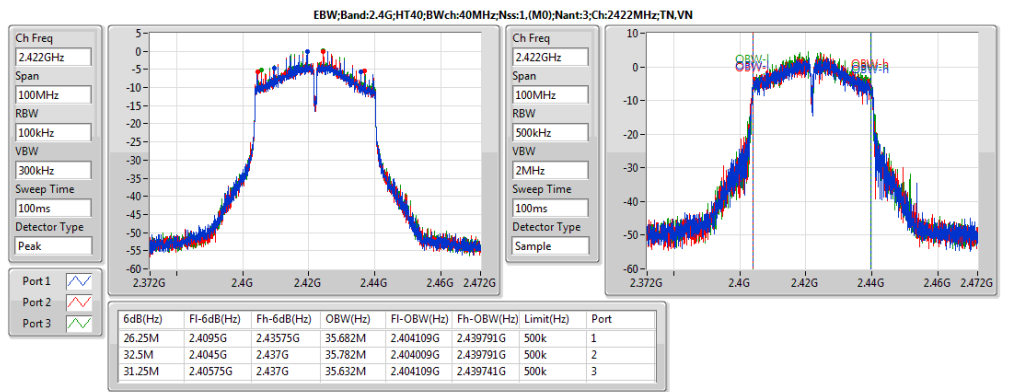
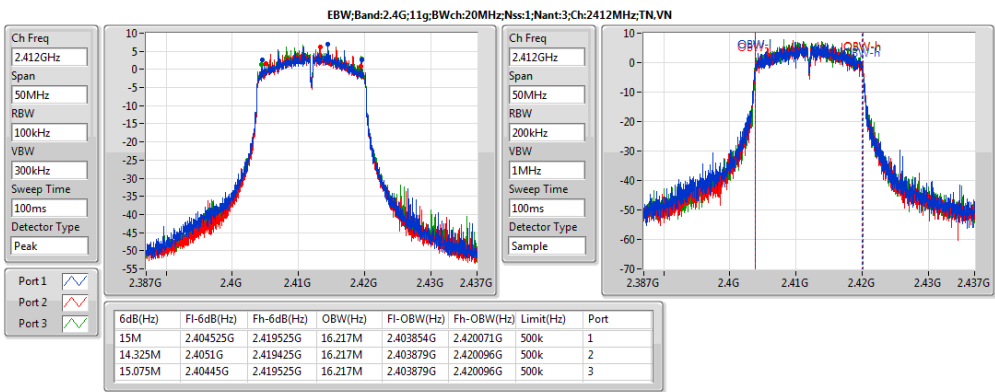
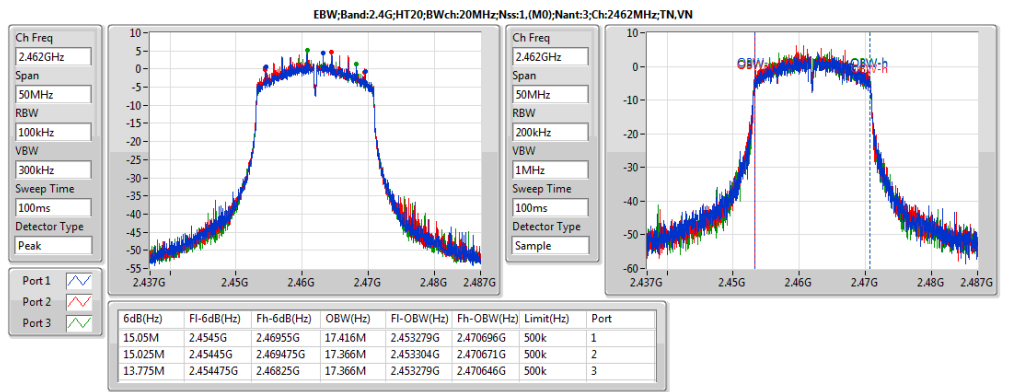
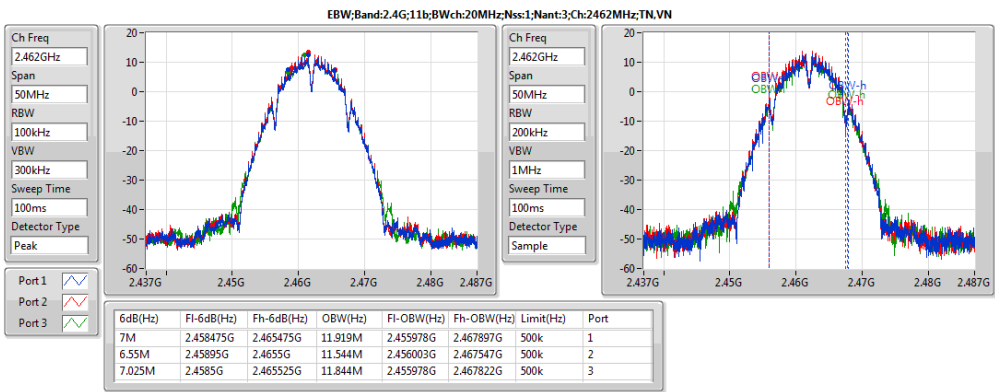
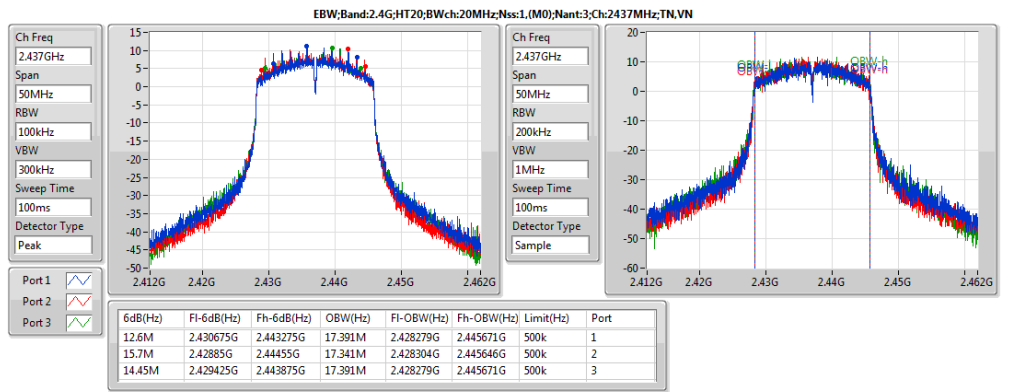
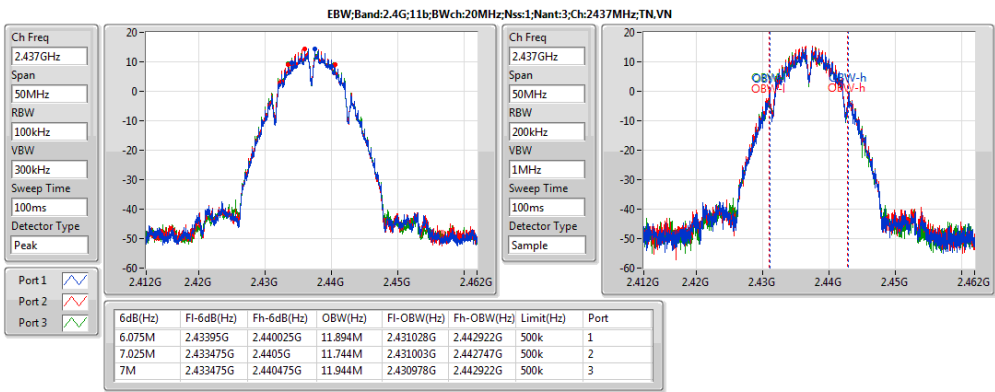
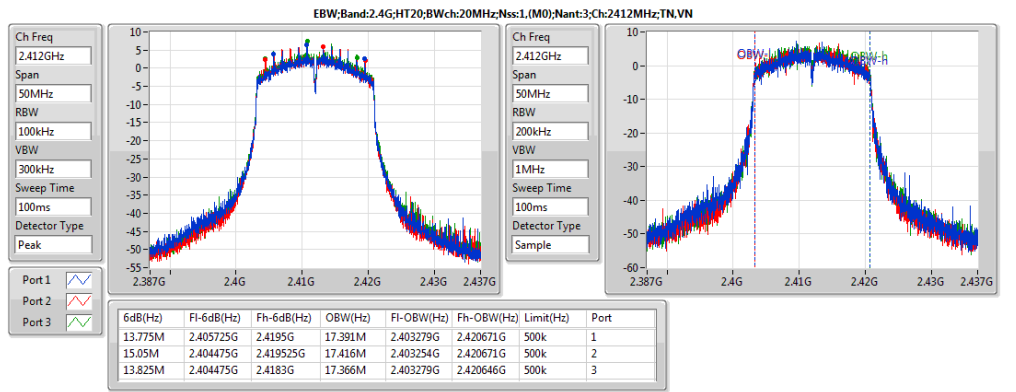
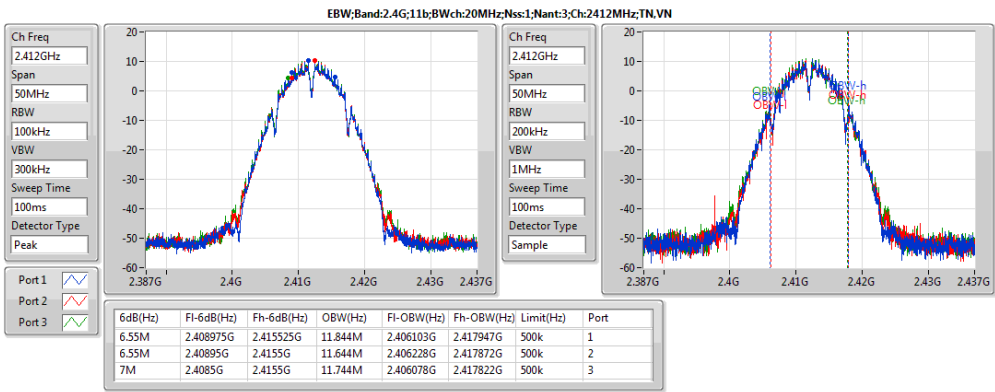


Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
2.4G;11b;Nss1;Ntx3	7.025M	11.944M	11M9G1D	6.075M	11.544M
2.4G;11g;Nss1;Ntx3	15.075M	16.242M	16M2D1D	12.9M	16.192M
2.4G;HT20;Nss1,(M0);Ntx3	15.7M	17.416M	17M4D1D	12.6M	17.341M
2.4G;HT40;Nss1,(M0);Ntx3	32.55M	35.832M	35M8D1D	26.25M	35.632M

Result

Mode	Result	Limit	P1-N dB (Hz)	P1-OBW (Hz)	P2-N dB (Hz)	P2-OBW (Hz)	P3-N dB (Hz)	P3-OBW (Hz)
2.4G;11b;Nss1;Ntx3;2412;TN,VN	Pass	500k	6.55M	11.844M	6.55M	11.644M	7M	11.744M
2.4G;11b;Nss1;Ntx3;2437;TN,VN	Pass	500k	6.075M	11.894M	7.025M	11.744M	7M	11.944M
2.4G;11b;Nss1;Ntx3;2462;TN,VN	Pass	500k	7M	11.919M	6.55M	11.544M	7.025M	11.844M
2.4G;11g;Nss1;Ntx3;2412;TN,VN	Pass	500k	15M	16.217M	14.325M	16.217M	15.075M	16.217M
2.4G;11g;Nss1;Ntx3;2437;TN,VN	Pass	500k	13.825M	16.192M	15.05M	16.217M	15.05M	16.242M
2.4G;11g;Nss1;Ntx3;2462;TN,VN	Pass	500k	12.9M	16.192M	15.075M	16.192M	14.4M	16.192M
2.4G;HT20;Nss1,(M0);Ntx3;2412;TN,VN	Pass	500k	13.775M	17.391M	15.05M	17.416M	13.825M	17.366M
2.4G;HT20;Nss1,(M0);Ntx3;2437;TN,VN	Pass	500k	12.6M	17.391M	15.7M	17.341M	14.45M	17.391M
2.4G;HT20;Nss1,(M0);Ntx3;2462;TN,VN	Pass	500k	15.05M	17.416M	15.025M	17.366M	13.775M	17.366M
2.4G;HT40;Nss1,(M0);Ntx3;2422;TN,VN	Pass	500k	26.25M	35.682M	32.5M	35.782M	31.25M	35.632M
2.4G;HT40;Nss1,(M0);Ntx3;2437;TN,VN	Pass	500k	31.25M	35.832M	32.55M	35.832M	31.25M	35.682M
2.4G;HT40;Nss1,(M0);Ntx3;2452;TN,VN	Pass	500k	31.25M	35.732M	30.05M	35.732M	32.5M	35.732M





Summary

Mode	Sum (dBm)	Sum (W)	EIRP (dBm)	EIRP (W)
2.4G;11b;Nss1;Ntx3	28.31	0.67764	33.96	2.48886
2.4G;11g;Nss1;Ntx3	25.73	0.37411	31.38	1.37404
2.4G;HT20;Nss1,(M0);Ntx3	27.65	0.5821	33.30	2.13796
2.4G;HT40;Nss1,(M0);Ntx3	24.01	0.25177	29.66	0.9247

Result

Mode	Result	DG (dBi)	EIRP (dBm)	EIRP Lim. (dBm)	Sum (dBm)	Sum Lim. (dBm)	P1 (dBm)	P2 (dBm)	P3 (dBm)
2.4G;11b;Nss1;Ntx3;2412;TN,VN	Pass	5.65	29.56	36.00	23.91	30.00	19.20	18.98	19.22
2.4G;11b;Nss1;Ntx3;2437;TN,VN	Pass	5.65	33.96	36.00	28.31	30.00	23.08	23.70	23.81
2.4G;11b;Nss1;Ntx3;2462;TN,VN	Pass	5.65	31.89	36.00	26.24	30.00	21.03	21.73	21.60
2.4G;11g;Nss1;Ntx3;2412;TN,VN	Pass	5.65	28.61	36.00	22.96	30.00	18.01	17.88	18.65
2.4G;11g;Nss1;Ntx3;2437;TN,VN	Pass	5.65	31.38	36.00	25.73	30.00	20.37	21.23	21.22
2.4G;11g;Nss1;Ntx3;2462;TN,VN	Pass	5.65	26.35	36.00	20.70	30.00	15.31	16.24	16.17
2.4G;HT20;Nss1,(M0);Ntx3;2412;TN,VN	Pass	5.65	28.04	36.00	22.39	30.00	17.71	17.37	17.77
2.4G;HT20;Nss1,(M0);Ntx3;2437;TN,VN	Pass	5.65	33.30	36.00	27.65	30.00	22.68	22.89	23.07
2.4G;HT20;Nss1,(M0);Ntx3;2462;TN,VN	Pass	5.65	26.69	36.00	21.04	30.00	15.79	16.59	16.38
2.4G;HT40;Nss1,(M0);Ntx3;2422;TN,VN	Pass	5.65	23.78	36.00	18.13	30.00	13.45	12.50	13.99
2.4G;HT40;Nss1,(M0);Ntx3;2437;TN,VN	Pass	5.65	29.66	36.00	24.01	30.00	18.88	19.10	19.69
2.4G;HT40;Nss1,(M0);Ntx3;2452;TN,VN	Pass	5.65	24.83	36.00	19.18	30.00	14.24	14.26	14.72

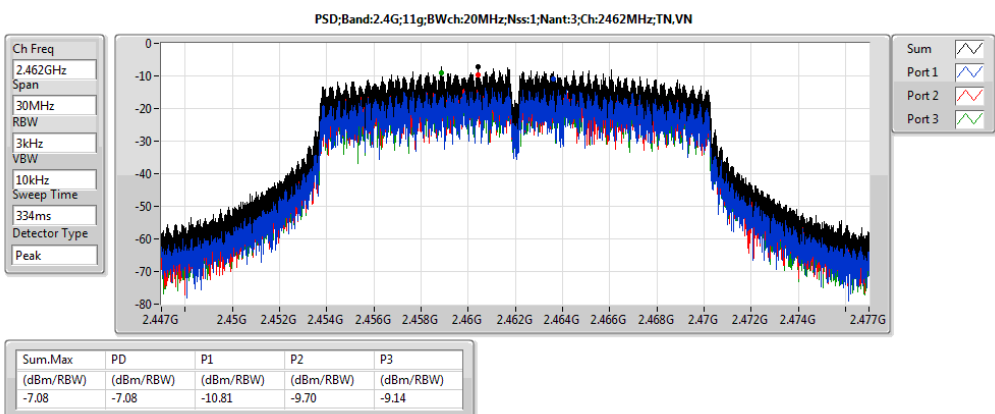
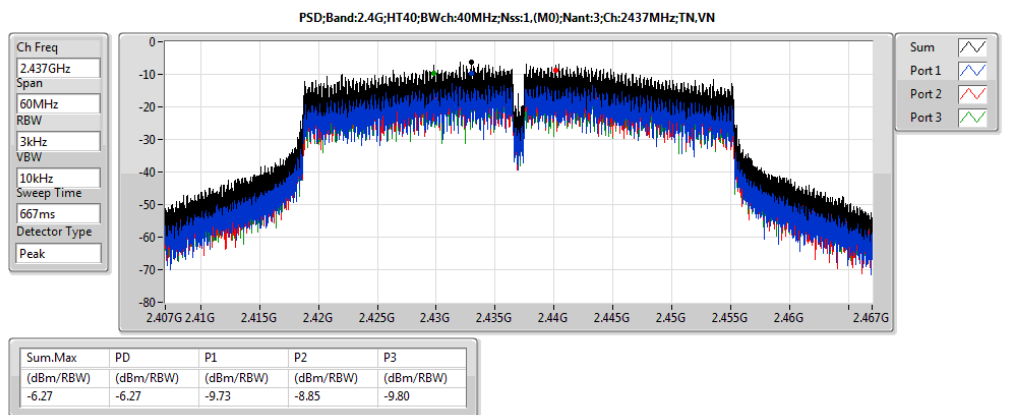
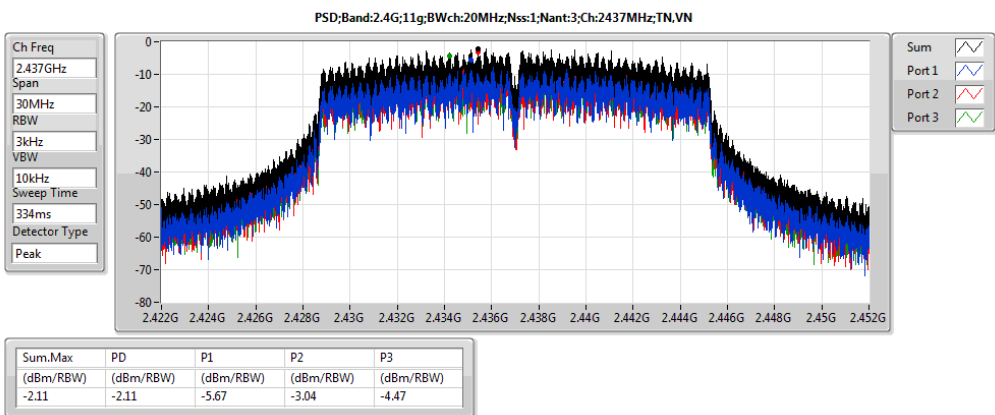
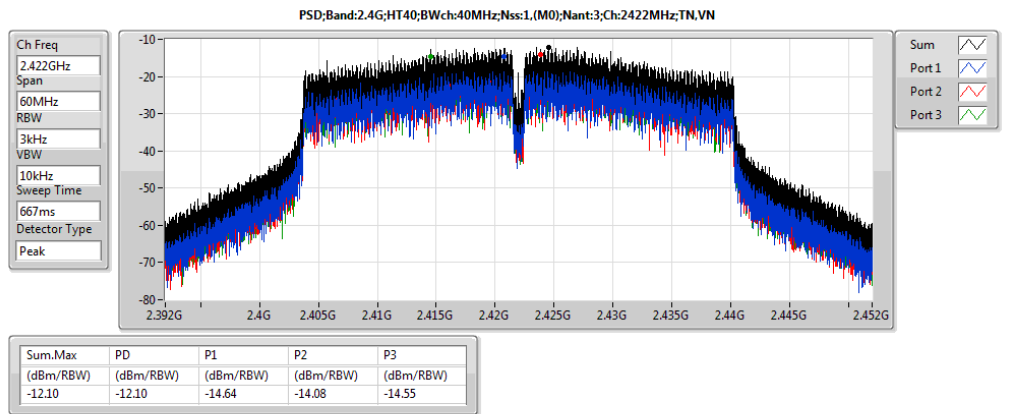
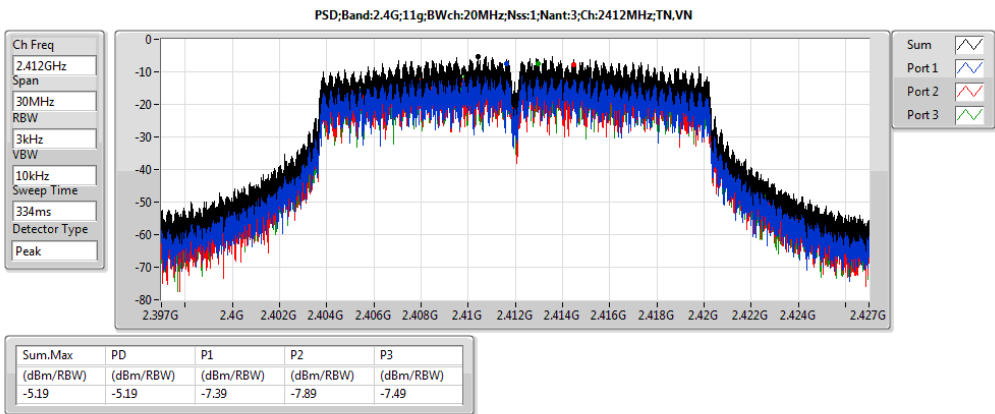
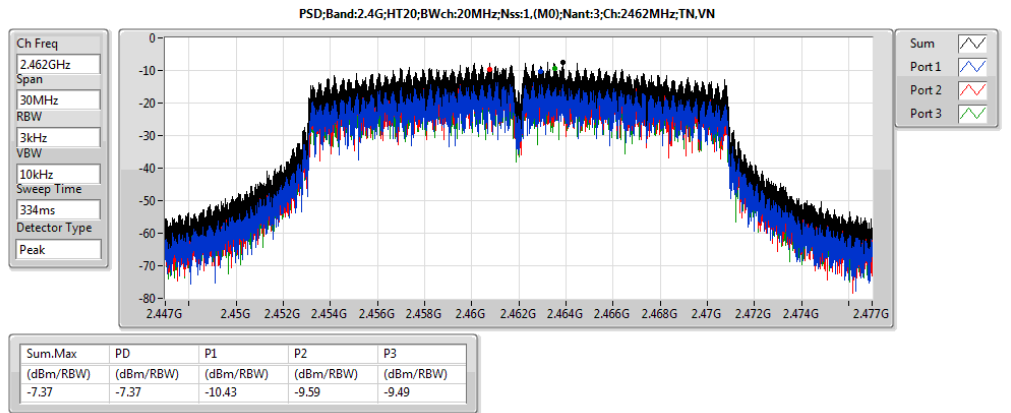
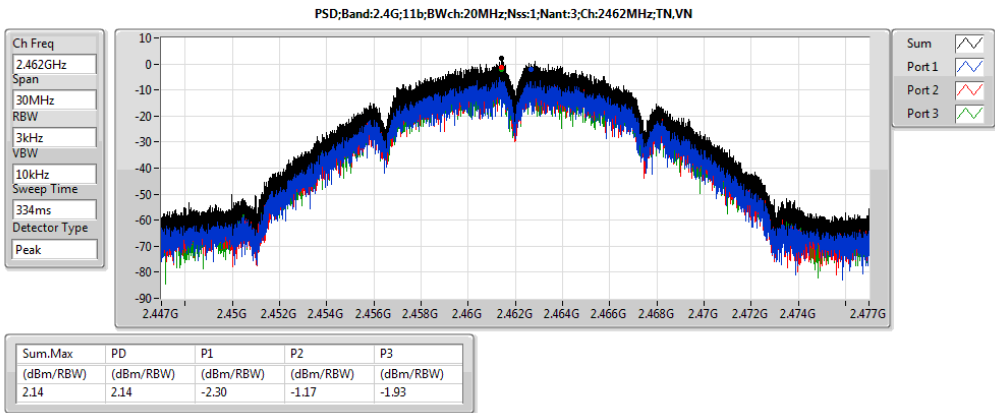
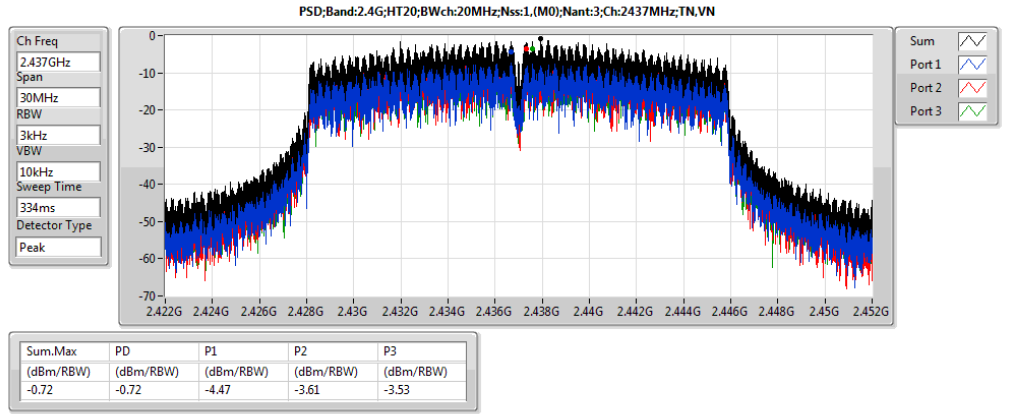
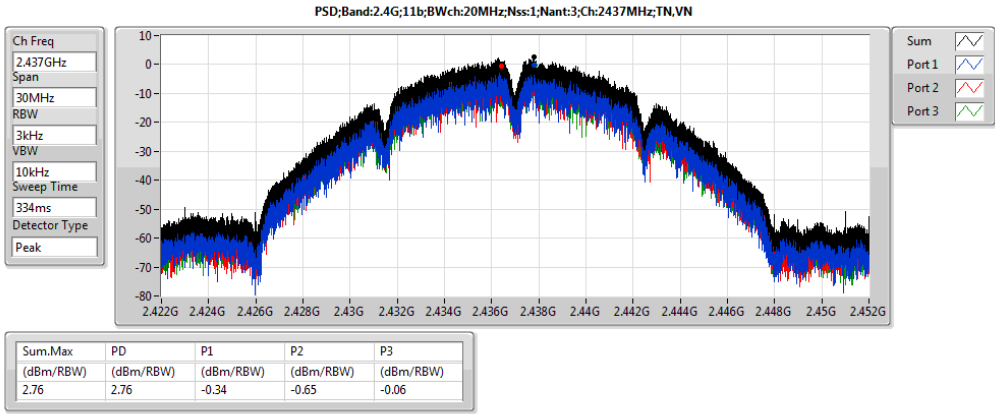
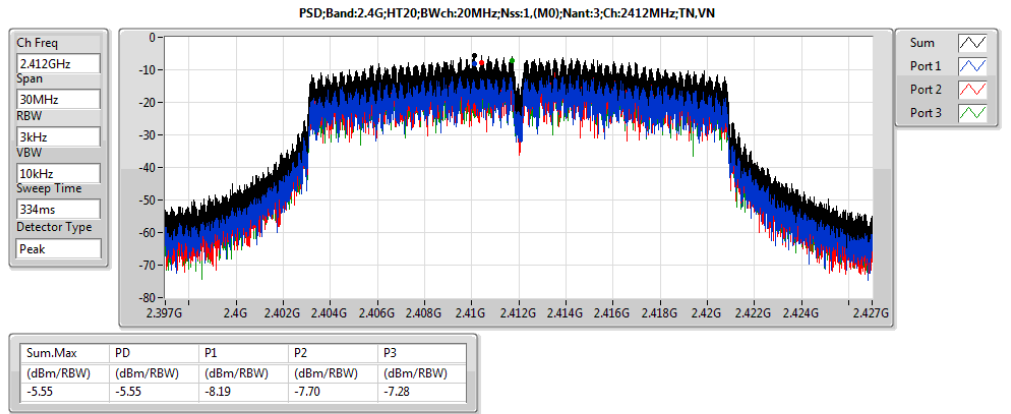
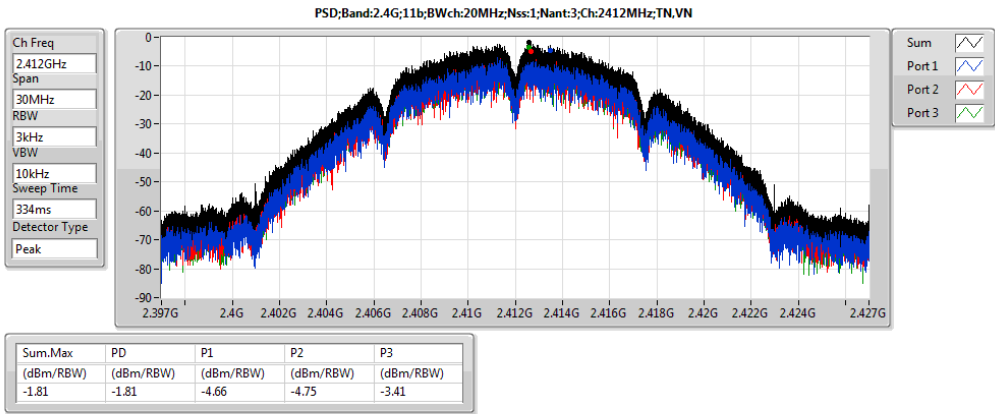


Summary

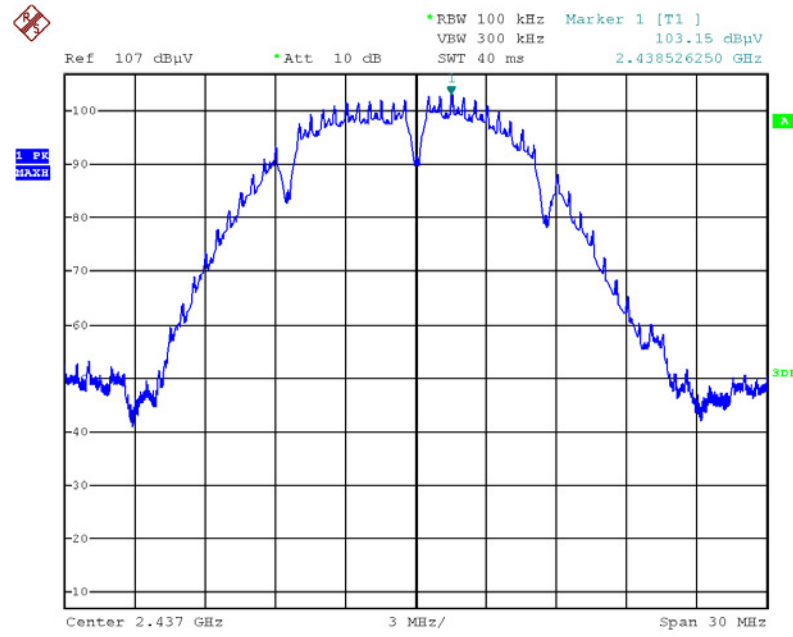
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2.4G;11b;Nss1;Ntx3	2.76	13.15
2.4G;11g;Nss1;Ntx3	-2.11	8.28
2.4G;HT20;Nss1,(M0);Ntx3	-0.72	9.67
2.4G;HT40;Nss1,(M0);Ntx3	-6.27	4.12

Result

Mode	Result	Meas.RBW (Hz)	Lim.RBW (Hz)	BWCF (dB)	DG (dBi)	Sum.Max (dBm/RBW)	PD (dBm/RBW)	PD.Limit (dBm/RBW)	EIRP.PD (dBm/RBW)	EIRP.PD.Li m (dBm/RBW)	P1 (dBm/RBW)	P2 (dBm/RBW)	P3 (dBm/RBW)
2.4G;11b;Nss1;Ntx3;2412;TN,VN	Pass	3k	3k	0.00	10.39	-1.81	-1.81	3.64	8.58	Inf	-4.66	-4.75	-3.41
2.4G;11b;Nss1;Ntx3;2437;TN,VN	Pass	3k	3k	0.00	10.39	2.76	2.76	3.64	13.15	Inf	-0.34	-0.65	-0.06
2.4G;11b;Nss1;Ntx3;2462;TN,VN	Pass	3k	3k	0.00	10.39	2.14	2.14	3.64	12.53	Inf	-2.30	-1.17	-1.93
2.4G;11g;Nss1;Ntx3;2412;TN,VN	Pass	3k	3k	0.00	10.39	-5.19	-5.19	3.64	5.20	Inf	-7.39	-7.89	-7.49
2.4G;11g;Nss1;Ntx3;2437;TN,VN	Pass	3k	3k	0.00	10.39	-2.11	-2.11	3.64	8.28	Inf	-5.67	-3.04	-4.47
2.4G;11g;Nss1;Ntx3;2462;TN,VN	Pass	3k	3k	0.00	10.39	-7.08	-7.08	3.64	3.31	Inf	-10.81	-9.70	-9.14
2.4G;HT20;Nss1,(M0);Ntx3;2412;TN,VN	Pass	3k	3k	0.00	10.39	-5.55	-5.55	3.64	4.84	Inf	-8.19	-7.70	-7.28
2.4G;HT20;Nss1,(M0);Ntx3;2437;TN,VN	Pass	3k	3k	0.00	10.39	-0.72	-0.72	3.64	9.67	Inf	-4.47	-3.61	-3.53
2.4G;HT20;Nss1,(M0);Ntx3;2462;TN,VN	Pass	3k	3k	0.00	10.39	-7.37	-7.37	3.64	3.02	Inf	-10.43	-9.59	-9.49
2.4G;HT40;Nss1,(M0);Ntx3;2422;TN,VN	Pass	3k	3k	0.00	10.39	-12.10	-12.10	3.64	-1.72	Inf	-14.64	-14.08	-14.55
2.4G;HT40;Nss1,(M0);Ntx3;2437;TN,VN	Pass	3k	3k	0.00	10.39	-6.27	-6.27	3.64	4.12	Inf	-9.73	-8.85	-9.80
2.4G;HT40;Nss1,(M0);Ntx3;2452;TN,VN	Pass	3k	3k	0.00	10.39	-11.51	-11.51	3.64	-1.13	Inf	-13.14	-14.05	-14.15

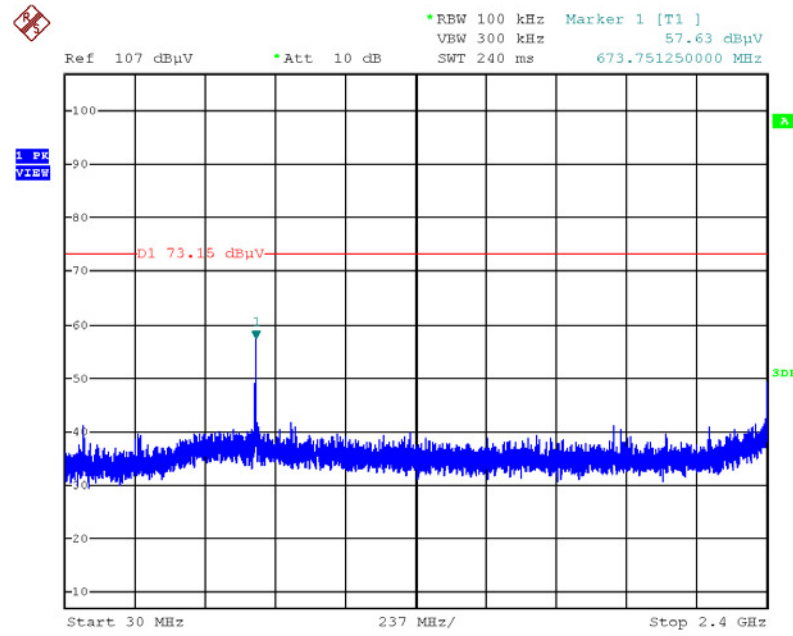


Plot on Configuration IEEE 802.11b / Reference Level



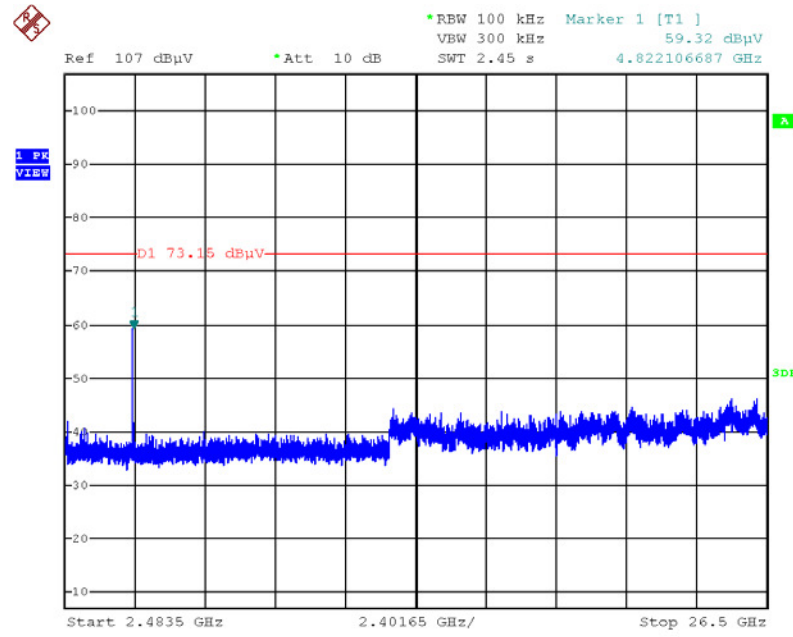
Date: 9.AUG.2016 03:06:08

Plot on Configuration IEEE 802.11b / CH 1 / 30MHz~2400MHz (down 30dBc)



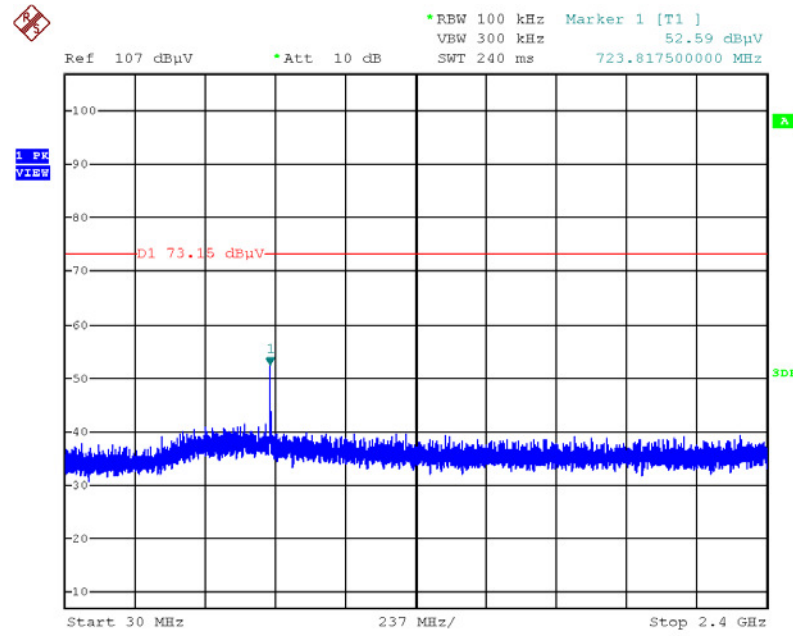
Date: 9.AUG.2016 03:08:49

Plot on Configuration IEEE 802.11b / CH 1 / 2483.5MHz~26500MHz (down 30dBc)



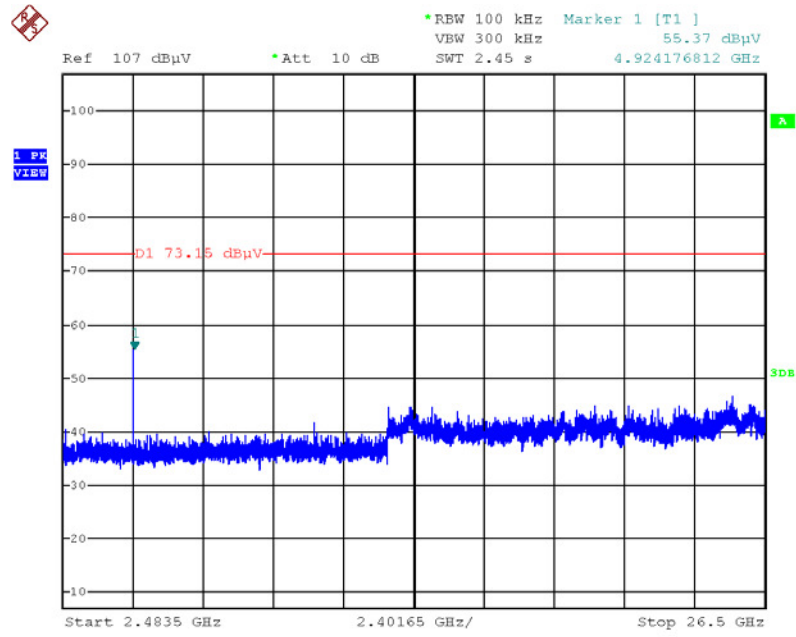
Date: 9.AUG.2016 03:09:29

Plot on Configuration IEEE 802.11b / CH 11 / 30MHz~2400MHz (down 30dBc)



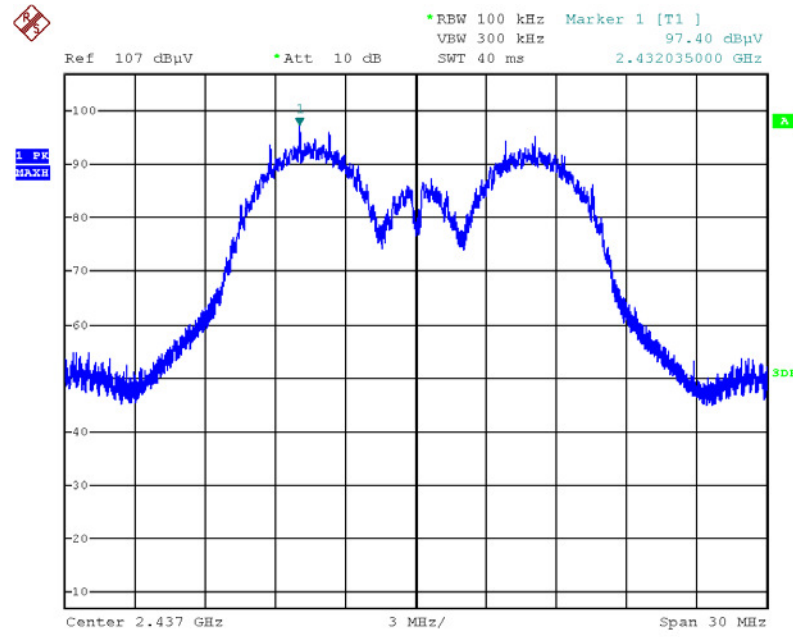
Date: 9.AUG.2016 03:11:25

Plot on Configuration IEEE 802.11b / CH 11 / 2483.5MHz~26500MHz (down 30dBc)



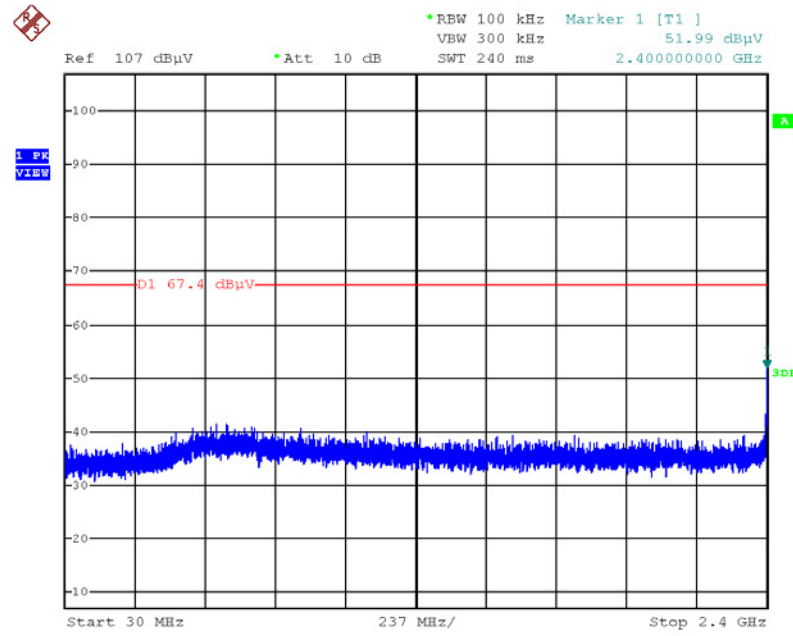
Date: 9.AUG.2016 03:11:02

Plot on Configuration IEEE 802.11g / Reference Level



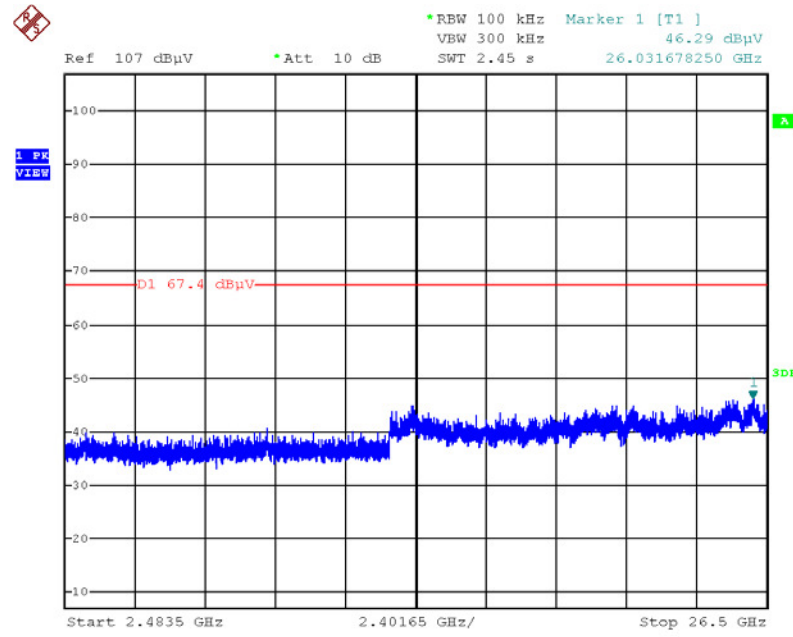
Date: 9.AUG.2016 03:15:25

Plot on Configuration IEEE 802.11g / CH 1 / 30MHz~2400MHz (down 30dBc)



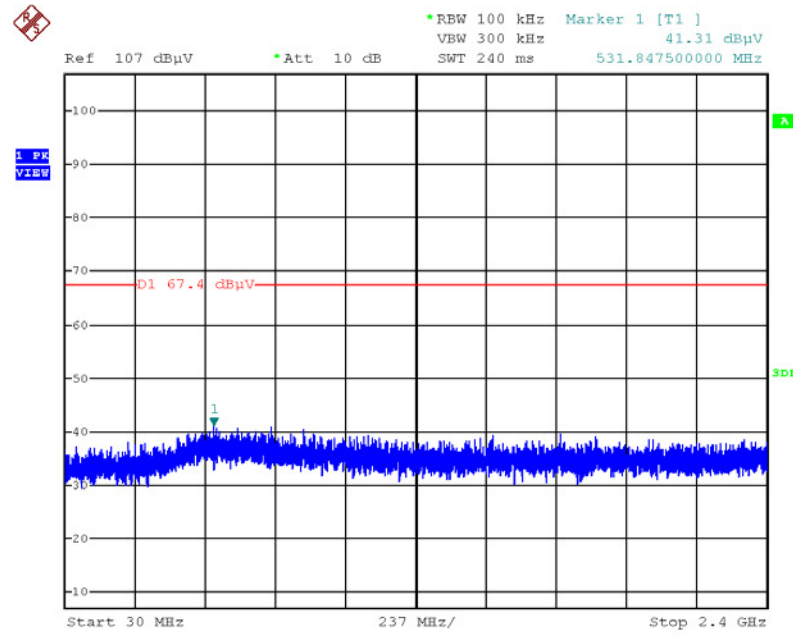
Date: 9.AUG.2016 03:16:33

Plot on Configuration IEEE 802.11g / CH 1 / 2483.5MHz~26500MHz (down 30dBc)



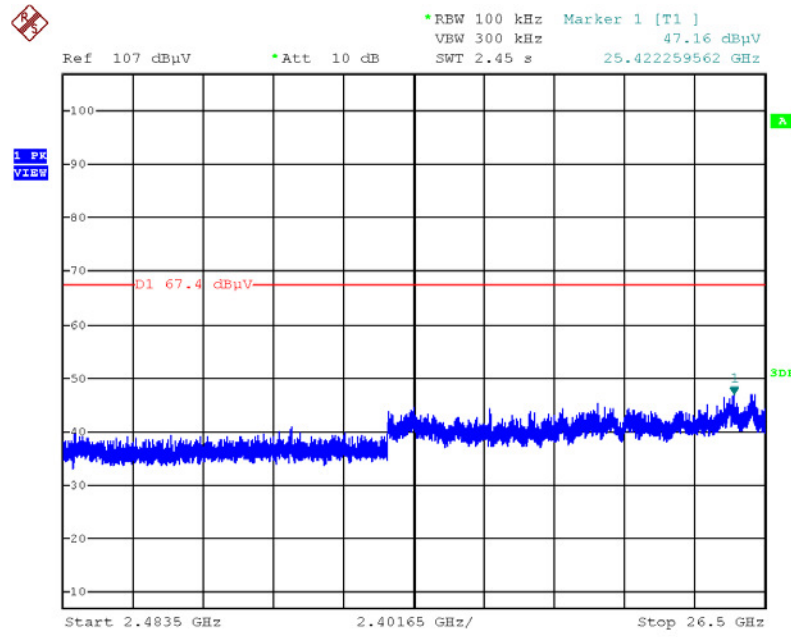
Date: 9.AUG.2016 03:17:06

Plot on Configuration IEEE 802.11g / CH 11 / 30MHz~2400MHz (down 30dBc)



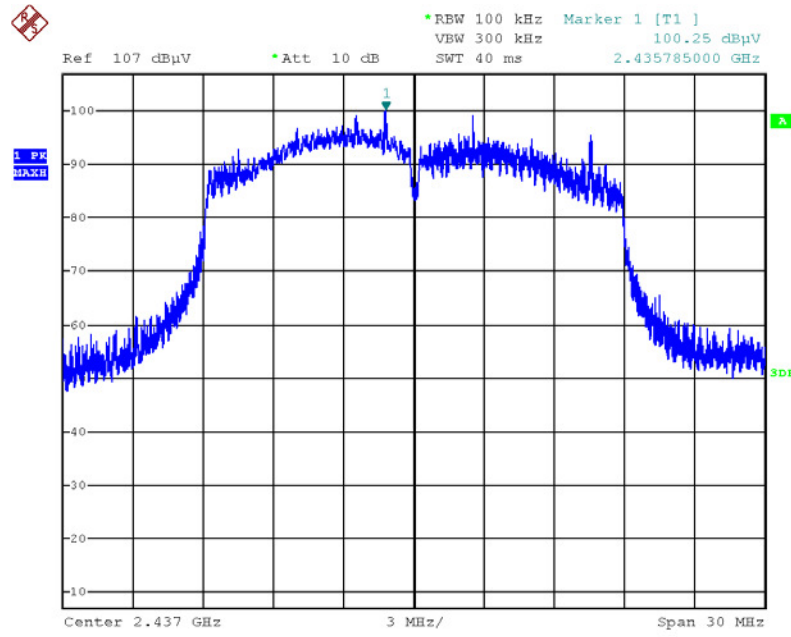
Date: 9.AUG.2016 03:18:19

Plot on Configuration IEEE 802.11g / CH 11 / 2483.5MHz~26500MHz (down 30dBc)



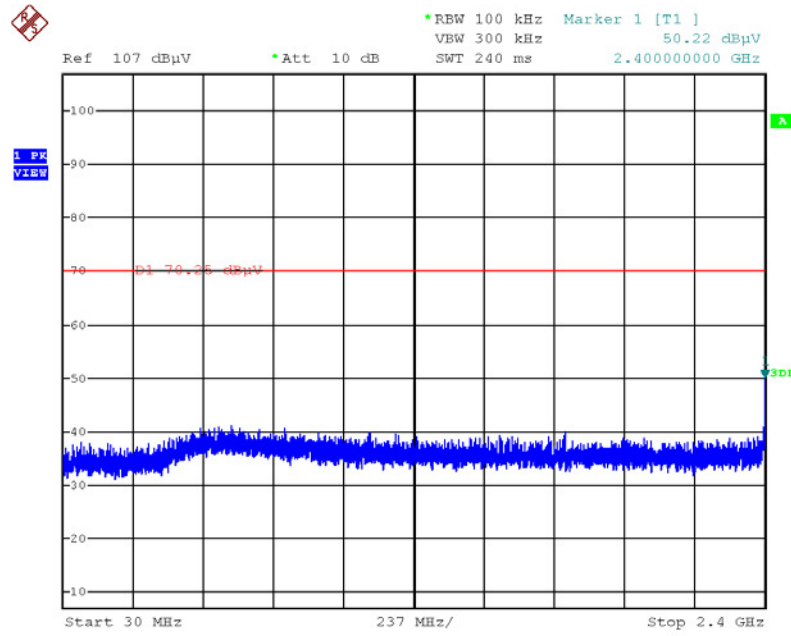
Date: 9.AUG.2016 03:17:54

Plot on Configuration IEEE 802.11n MCS0 HT20 / Reference Level



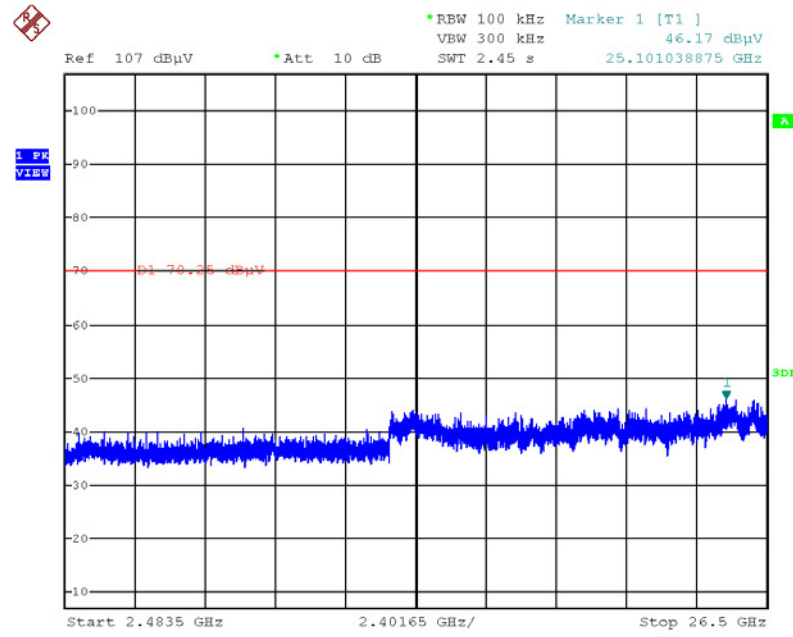
Date: 9.AUG.2016 03:21:14

Plot on Configuration IEEE 802.11n MCS0 HT20 / CH 1 / 30MHz~2400MHz (down 30dBc)



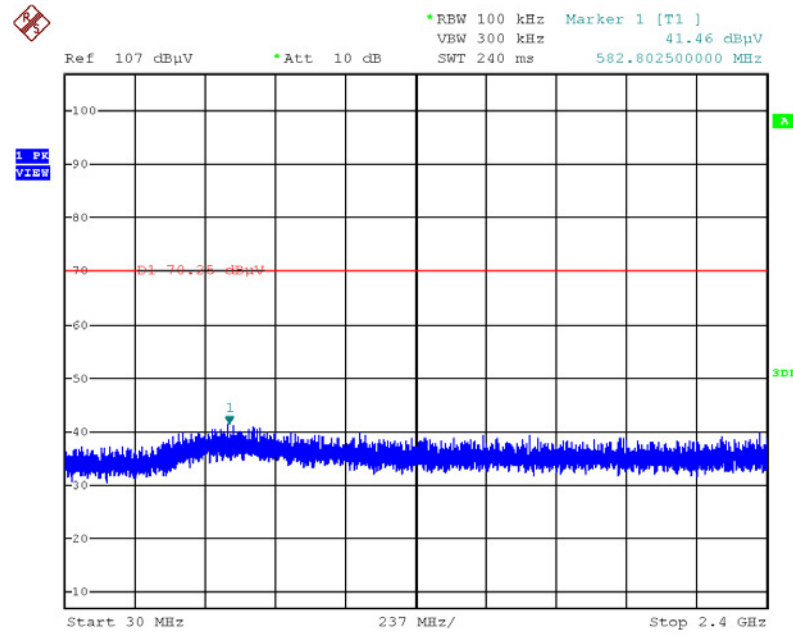
Date: 9.AUG.2016 03:22:27

Plot on Configuration IEEE 802.11n MCS0 HT20 / CH 1 / 2483.5MHz~26500MHz (down 30dBc)



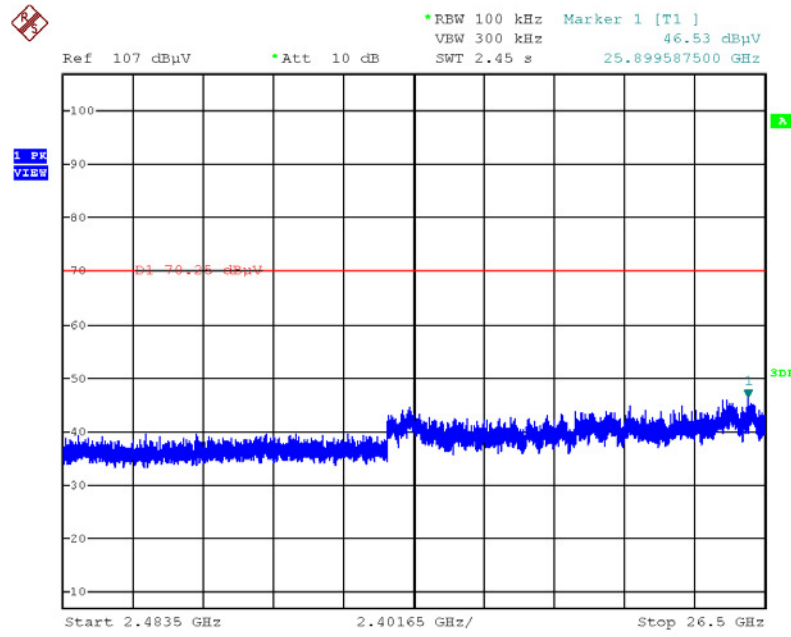
Date: 9.AUG.2016 03:22:55

Plot on Configuration IEEE 802.11n MCS0 HT20 / CH 11 / 30MHz~2400MHz (down 30dBc)



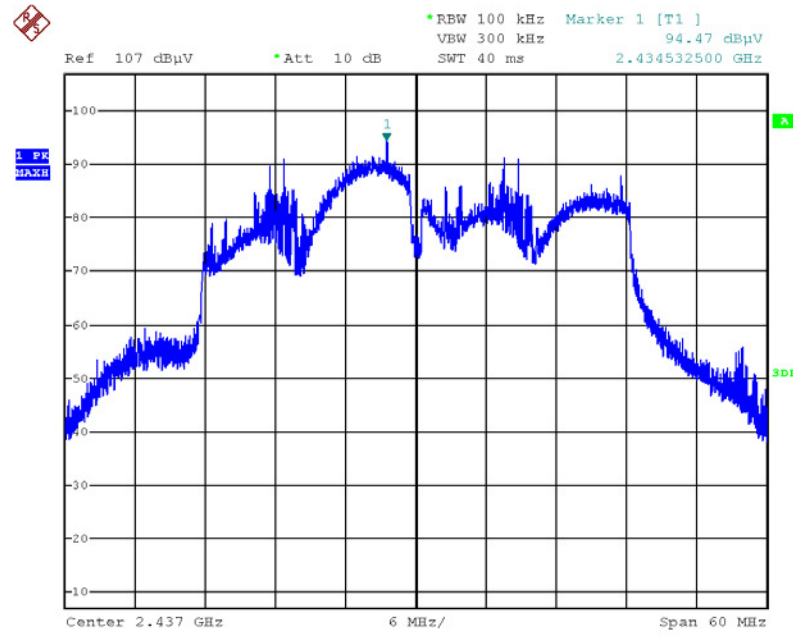
Date: 9.AUG.2016 03:24:06

Plot on Configuration IEEE 802.11n MCS0 HT20 / CH 11 / 2483.5MHz~26500MHz (down 30dBc)



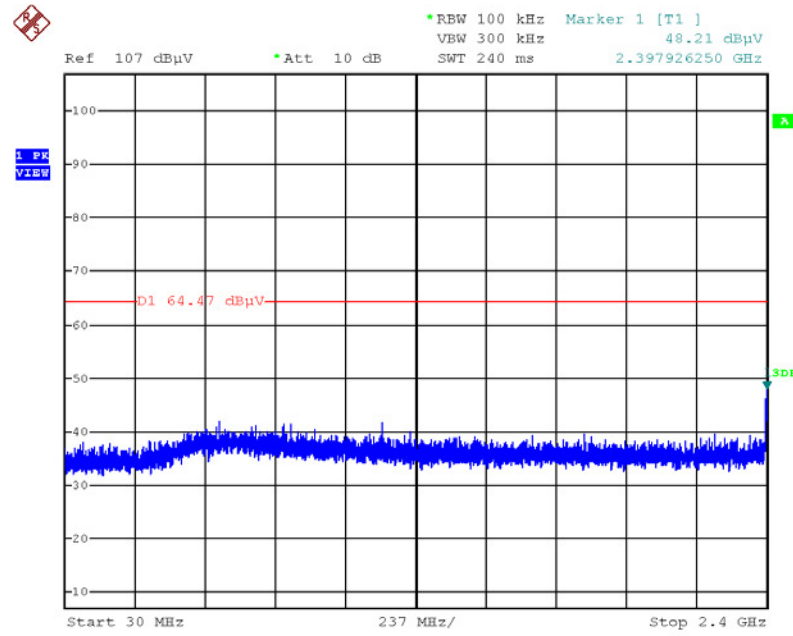
Date: 9.AUG.2016 03:23:43

Plot on Configuration IEEE 802.11n MCS0 HT40 / Reference Level



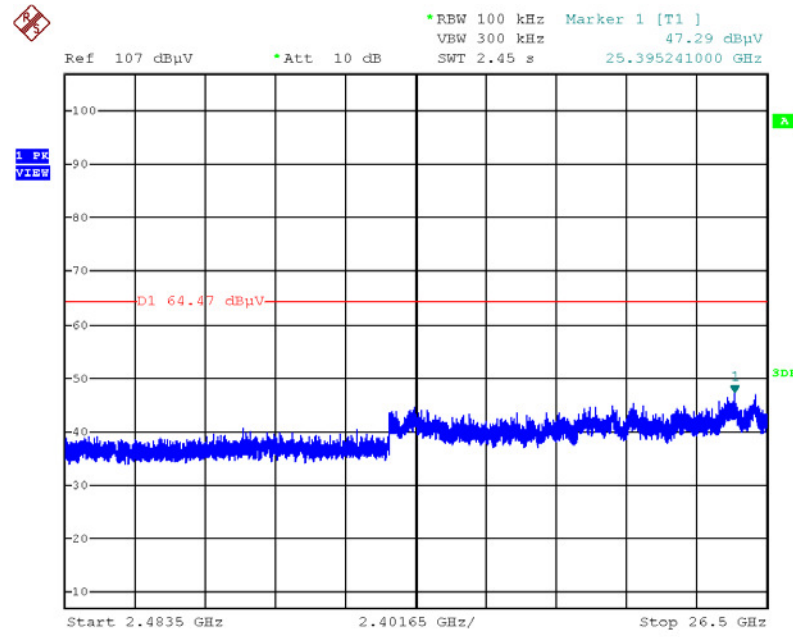
Date: 9.AUG.2016 03:25:41

Plot on Configuration IEEE 802.11n MCS0 HT40 / CH 3 / 30MHz~2400MHz (down 30dBc)



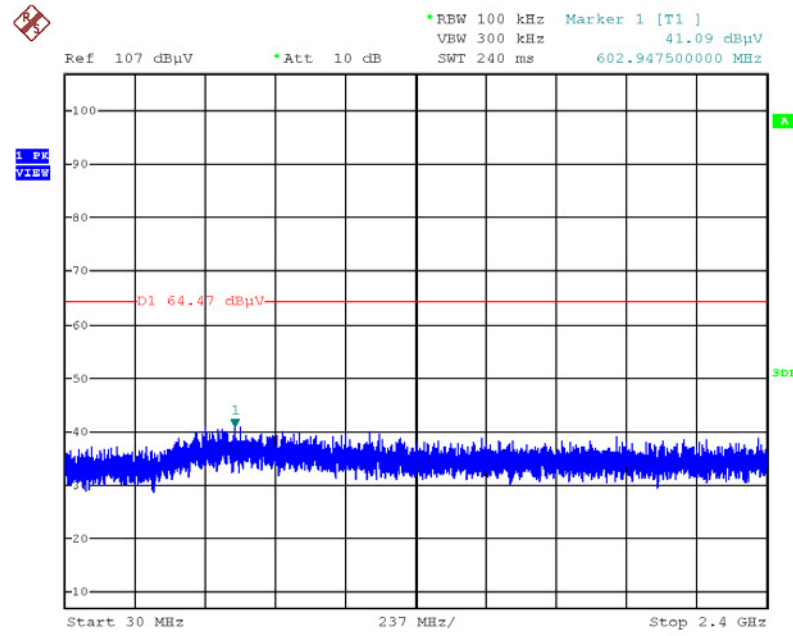
Date: 9.AUG.2016 03:26:52

Plot on Configuration IEEE 802.11n MCS0 HT40 / CH 3 / 2483.5MHz~26500MHz (down 30dBc)



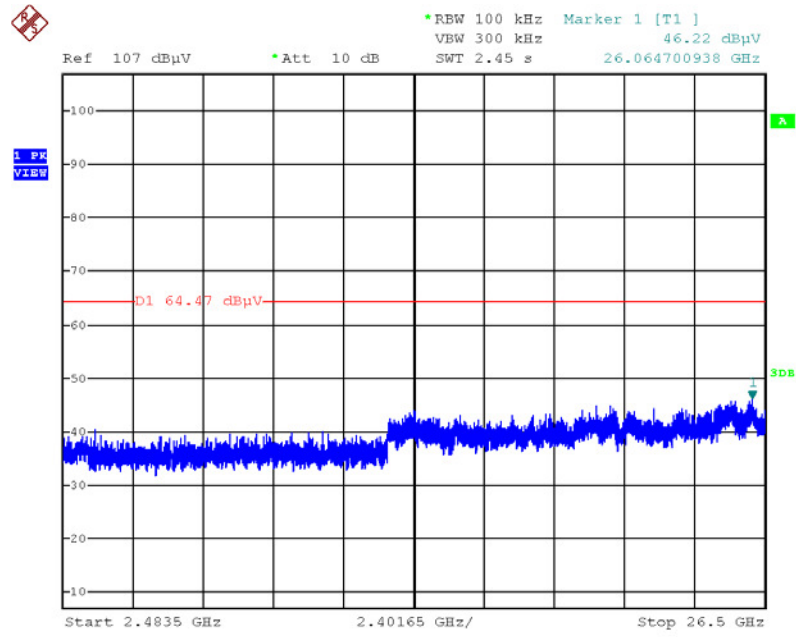
Date: 9.AUG.2016 03:27:25

Plot on Configuration IEEE 802.11n MCS0 HT40 / CH 9 / 30MHz~2400MHz (down 30dBc)

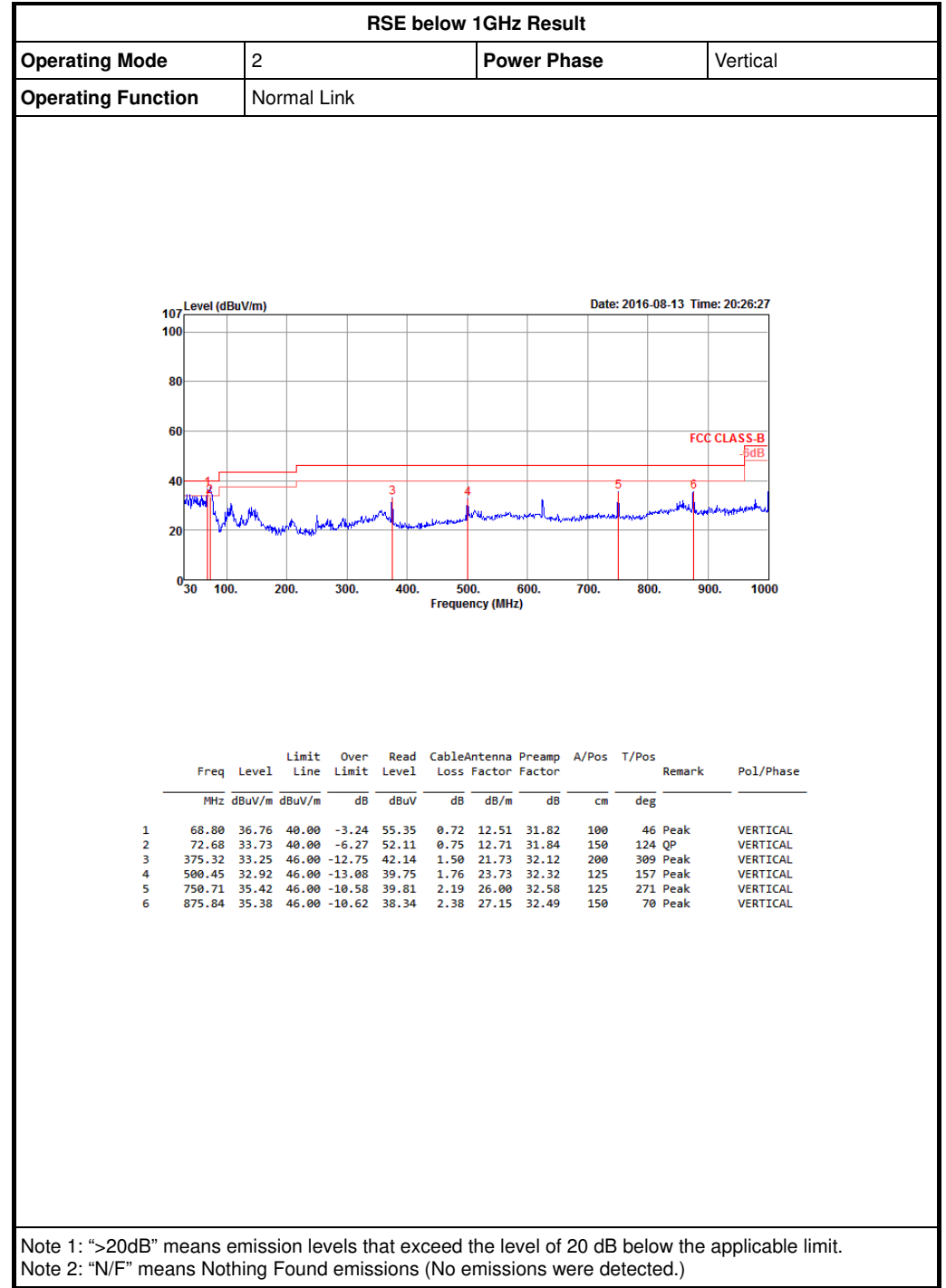
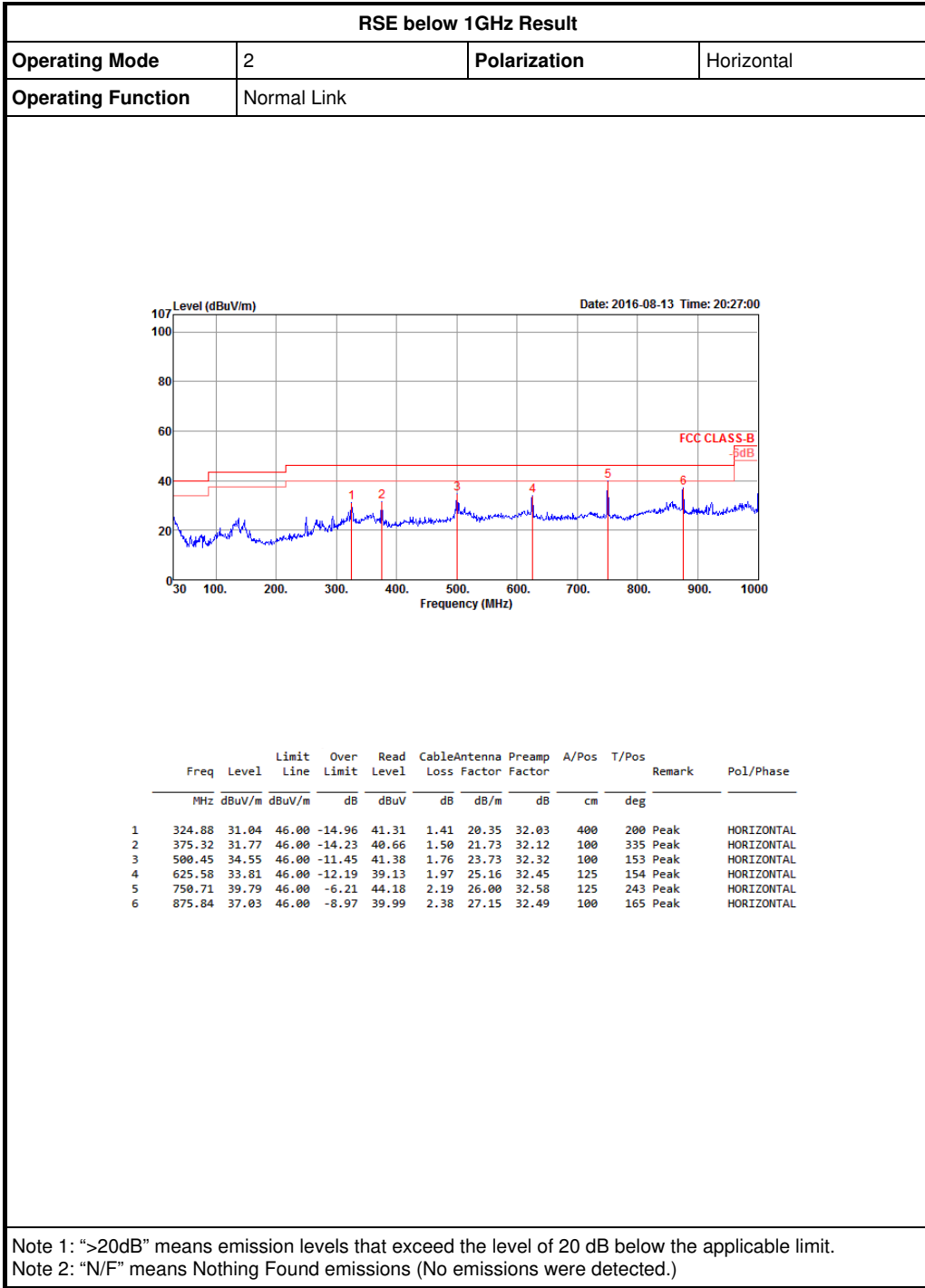


Date: 9.AUG.2016 03:29:07

Plot on Configuration IEEE 802.11n MCS0 HT40 / CH 9 / 2483.5MHz~26500MHz (down 30dBc)



Date: 9.AUG.2016 03:28:48





Radiated Emissions (1GHz~10th Harmonic)

Configurations	IEEE 802.11b CH 1 / Chain 1 + Chain 2 + Chain 3
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Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	4823.76	49.00	74.00	-25.00	42.96	8.00	31.09	33.05	109	152	Peak	HORIZONTAL
2	4824.08	40.07	54.00	-13.93	34.03	8.00	31.09	33.05	109	152	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	4824.02	45.75	54.00	-8.25	39.71	8.00	31.09	33.05	150	180	Average	VERTICAL
2	4824.06	51.09	74.00	-22.91	45.05	8.00	31.09	33.05	150	180	Peak	VERTICAL

Configurations	IEEE 802.11b CH 6 / Chain 1 + Chain 2 + Chain 3
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Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	4874.04	46.44	54.00	-7.56	40.26	8.06	31.15	33.03	105	152	Average	HORIZONTAL
2	4874.14	52.04	74.00	-21.96	45.86	8.06	31.15	33.03	105	152	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	4874.01	52.49	54.00	-1.51	46.31	8.06	31.15	33.03	100	179	Average	VERTICAL
2	4874.02	55.76	74.00	-18.24	49.58	8.06	31.15	33.03	100	179	Peak	VERTICAL

Configurations	IEEE 802.11b CH 11 / Chain 1 + Chain 2 + Chain 3
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Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	4924.05	41.12	54.00	-12.88	34.79	8.11	31.22	33.00	107	151	Average	HORIZONTAL
2	4924.13	49.23	74.00	-24.77	42.90	8.11	31.22	33.00	107	151	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	4924.04	51.98	74.00	-22.02	45.65	8.11	31.22	33.00	100	182	Peak	VERTICAL
2	4924.08	46.70	54.00	-7.30	40.37	8.11	31.22	33.00	100	182	Average	VERTICAL



Configurations	IEEE 802.11g CH 1 / Chain 1 + Chain 2 + Chain 3
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Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	4823.12	33.66	54.00	-20.34	27.62	8.00	31.09	33.05	217	236 Average	HORIZONTAL
2	4823.40	47.03	74.00	-26.97	40.99	8.00	31.09	33.05	217	236 Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	4823.08	46.43	74.00	-27.57	40.39	8.00	31.09	33.05	123	49 Peak	VERTICAL
2	4823.54	34.96	54.00	-19.04	28.92	8.00	31.09	33.05	123	49 Average	VERTICAL

Configurations	IEEE 802.11g CH 6 / Chain 1 + Chain 2 + Chain 3
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Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	4874.02	46.55	74.00	-27.45	40.37	8.06	31.15	33.03	217	196 Peak	HORIZONTAL
2	4874.75	34.14	54.00	-19.86	27.96	8.06	31.15	33.03	217	196 Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	4873.04	38.21	54.00	-15.79	32.03	8.06	31.15	33.03	306	294 Average	VERTICAL
2	4873.26	51.27	74.00	-22.73	45.09	8.06	31.15	33.03	306	294 Peak	VERTICAL

Configurations	IEEE 802.11g CH 11 / Chain 1 + Chain 2 + Chain 3
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Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	4923.52	33.26	54.00	-20.74	26.96	8.10	31.20	33.00	113	104 Average	HORIZONTAL
2	4924.19	46.47	74.00	-27.53	40.14	8.11	31.22	33.00	113	104 Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	4923.20	48.91	74.00	-25.09	42.61	8.10	31.20	33.00	160	320 Peak	VERTICAL
2	4924.57	35.67	54.00	-18.33	29.34	8.11	31.22	33.00	160	320 Average	VERTICAL



Configurations	IEEE 802.11n MCS0 HT20 CH 1 / Chain 1 + Chain 2 + Chain 3
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Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	4819.76	33.36	54.00	-20.64	27.32	8.00	31.09	33.05	193	65 Average	HORIZONTAL
2	4832.80	46.00	74.00	-28.00	39.91	8.02	31.11	33.04	193	65 Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	4823.28	47.59	74.00	-26.41	41.55	8.00	31.09	33.05	150	310 Peak	VERTICAL
2	4823.39	34.48	54.00	-19.52	28.44	8.00	31.09	33.05	150	310 Average	VERTICAL

Configurations	IEEE 802.11n MCS0 HT20 CH 6 / Chain 1 + Chain 2 + Chain 3
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Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	4873.57	47.33	74.00	-26.67	41.15	8.06	31.15	33.03	130	89 Peak	HORIZONTAL
2	4874.49	33.78	54.00	-20.22	27.60	8.06	31.15	33.03	130	89 Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	4874.13	53.79	74.00	-20.21	47.61	8.06	31.15	33.03	212	5 Peak	VERTICAL
2	4874.68	39.07	54.00	-14.93	32.89	8.06	31.15	33.03	212	5 Average	VERTICAL

Configurations	IEEE 802.11n MCS0 HT20 CH 11 / Chain 1 + Chain 2 + Chain 3
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Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	4923.21	46.56	74.00	-27.44	40.26	8.10	31.20	33.00	128	148 Peak	HORIZONTAL
2	4924.38	33.45	54.00	-20.55	27.12	8.11	31.22	33.00	128	148 Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	4924.26	48.45	74.00	-25.55	42.12	8.11	31.22	33.00	170	325 Peak	VERTICAL
2	4924.52	35.21	54.00	-18.79	28.88	8.11	31.22	33.00	170	325 Average	VERTICAL



Configurations	IEEE 802.11n MCS0 HT40 CH 3 / Chain 1 + Chain 2 + Chain 3
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Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	4883.74	33.27	54.00	-20.73	27.05	8.07	31.17	33.02	160	257	Average	HORIZONTAL
2	4884.38	46.47	74.00	-27.53	40.25	8.07	31.17	33.02	160	257	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	4883.39	48.20	74.00	-25.80	41.98	8.07	31.17	33.02	193	332	Peak	VERTICAL
2	4883.79	34.33	54.00	-19.67	28.11	8.07	31.17	33.02	193	332	Average	VERTICAL

Configurations	IEEE 802.11n MCS0 HT40 CH 6 / Chain 1 + Chain 2 + Chain 3
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Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	4873.56	47.17	74.00	-26.83	40.99	8.06	31.15	33.03	163	121	Peak	HORIZONTAL
2	4873.64	33.49	54.00	-20.51	27.31	8.06	31.15	33.03	163	121	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	4873.43	46.50	74.00	-27.50	40.32	8.06	31.15	33.03	140	28	Peak	VERTICAL
2	4874.77	34.26	54.00	-19.74	28.08	8.06	31.15	33.03	140	28	Average	VERTICAL

Configurations	IEEE 802.11n MCS0 HT40 CH 9 / Chain 1 + Chain 2 + Chain 3
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Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	4903.52	33.19	54.00	-20.81	26.92	8.09	31.19	33.01	138	277	Average	HORIZONTAL
2	4904.07	46.03	74.00	-27.97	39.76	8.09	31.19	33.01	138	277	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	4903.83	34.34	54.00	-19.66	28.07	8.09	31.19	33.01	162	307	Average	VERTICAL
2	4904.24	47.25	74.00	-26.75	40.98	8.09	31.19	33.01	162	307	Peak	VERTICAL

Note:

The amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.

Emission level (dBuV/m) = 20 log Emission level (uV/m).

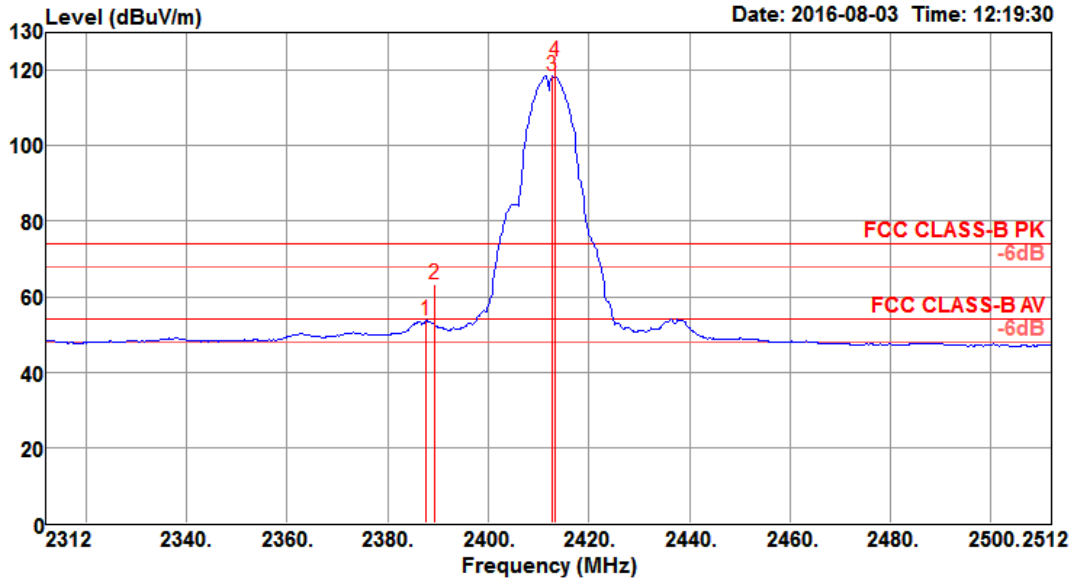
Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.



Band Edge Emissions

Configurations	IEEE 802.11b CH 1, 6, 11 / Chain 1 + Chain 2 + Chain 3
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Channel 1

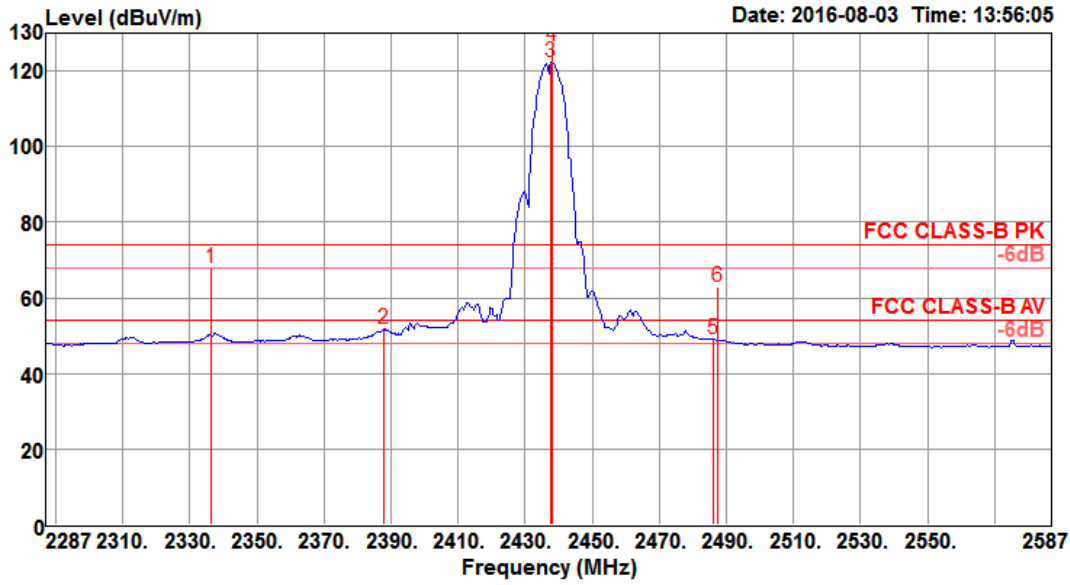


Date: 2016-08-03 Time: 12:19:30

Item	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	2387.60	53.65	54.00	-0.35	20.54	4.54	28.57	0.00	172	353	Average	VERTICAL
2	2389.20	63.45	74.00	-10.55	30.34	4.54	28.57	0.00	172	353	Peak	VERTICAL
3	2412.80	118.53			85.33	4.57	28.63	0.00	172	353	Average	VERTICAL
4	2413.20	122.18			88.98	4.57	28.63	0.00	172	353	Peak	VERTICAL

Item 3, 4 are the fundamental frequency at 2412 MHz.

Channel 6



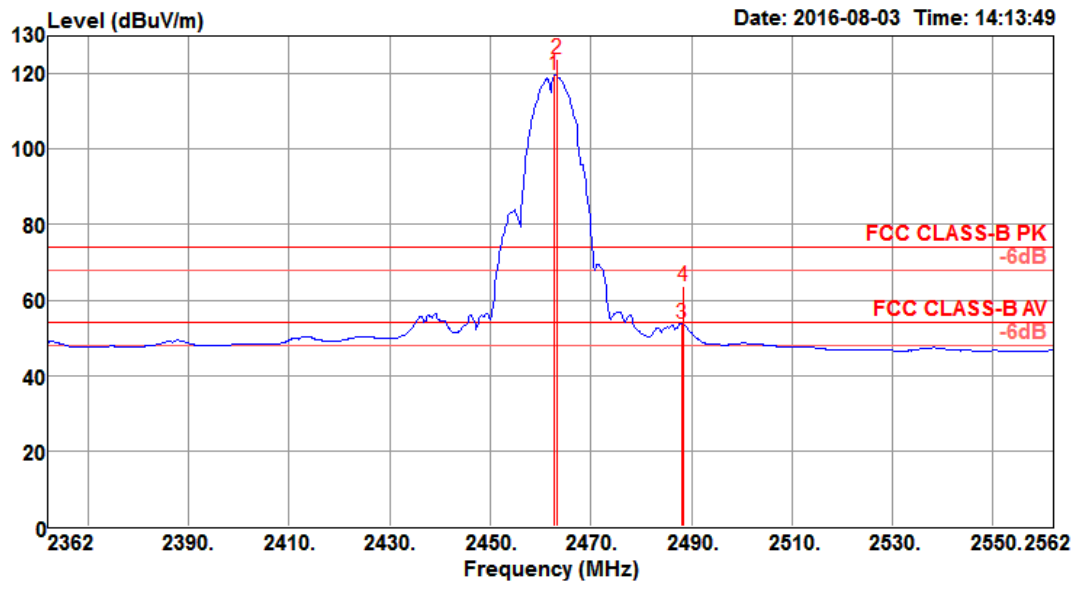
Date: 2016-08-03 Time: 13:56:05

Item	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	2336.20	68.02	74.00	-5.98	35.06	4.49	28.47	0.00	170	12	Peak	VERTICAL
2	2387.80	51.66	54.00	-2.34	18.55	4.54	28.57	0.00	170	12	Average	VERTICAL
3	2437.60	122.50			89.24	4.59	28.67	0.00	170	12	Average	VERTICAL
4	2438.20	126.57			93.31	4.59	28.67	0.00	170	12	Peak	VERTICAL
5	2486.20	48.96	54.00	-5.04	15.56	4.63	28.77	0.00	170	12	Average	VERTICAL
6	2487.40	62.93	74.00	-11.07	29.53	4.63	28.77	0.00	170	12	Peak	VERTICAL

Item 3, 4 are the fundamental frequency at 2437 MHz.



Channel 11



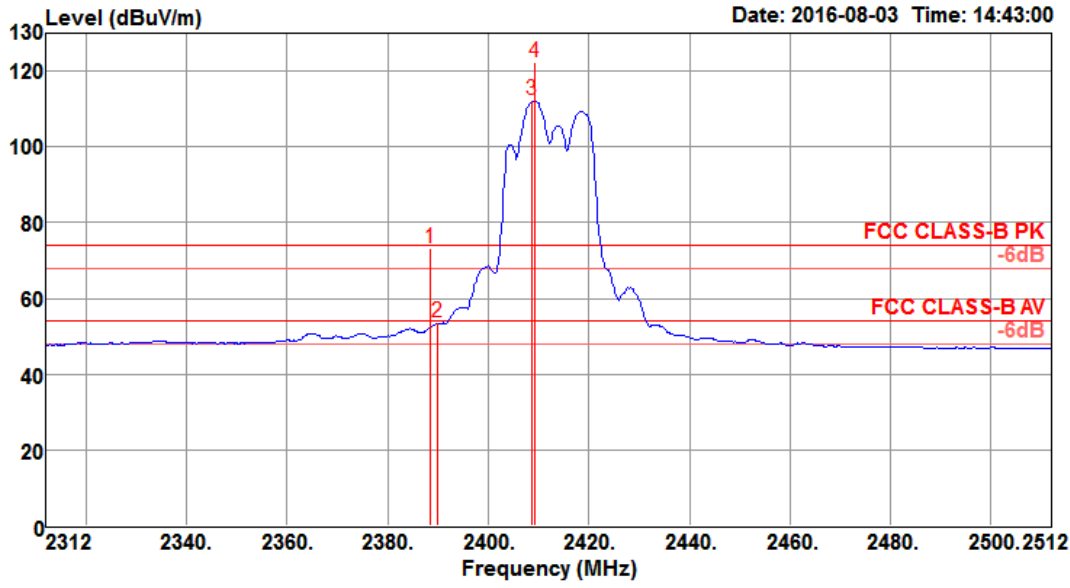
	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	2462.80	119.72			86.38	4.61	28.73	0.00	175	12 Average	VERTICAL
2	2463.20	123.70			90.36	4.61	28.73	0.00	175	12 Peak	VERTICAL
3	2488.00	53.56	54.00	-0.44	20.16	4.63	28.77	0.00	175	12 Average	VERTICAL
4	2488.40	63.52	74.00	-10.48	30.12	4.63	28.77	0.00	175	12 Peak	VERTICAL

Item 1, 2 are the fundamental frequency at 2462 MHz.



Configurations	IEEE 802.11g CH 1, 6, 11 / Chain 1 + Chain 2 + Chain 3
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Channel 1

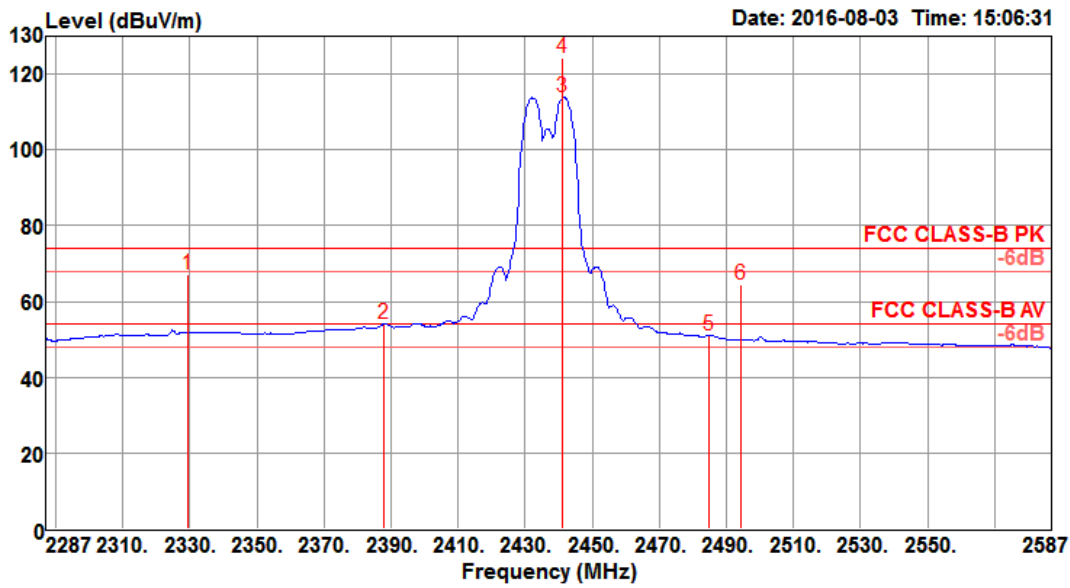


Date: 2016-08-03 Time: 14:43:00

Item	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	2388.40	73.41	74.00	-0.59	40.30	4.54	28.57	0.00	154	182	Peak	VERTICAL
2	2390.00	53.64	54.00	-0.36	20.53	4.54	28.57	0.00	154	182	Average	VERTICAL
3	2408.80	112.19			79.01	4.57	28.61	0.00	154	182	Average	VERTICAL
4	2409.20	122.49			89.31	4.57	28.61	0.00	154	182	Peak	VERTICAL

Item 3, 4 are the fundamental frequency at 2412 MHz.

Channel 6



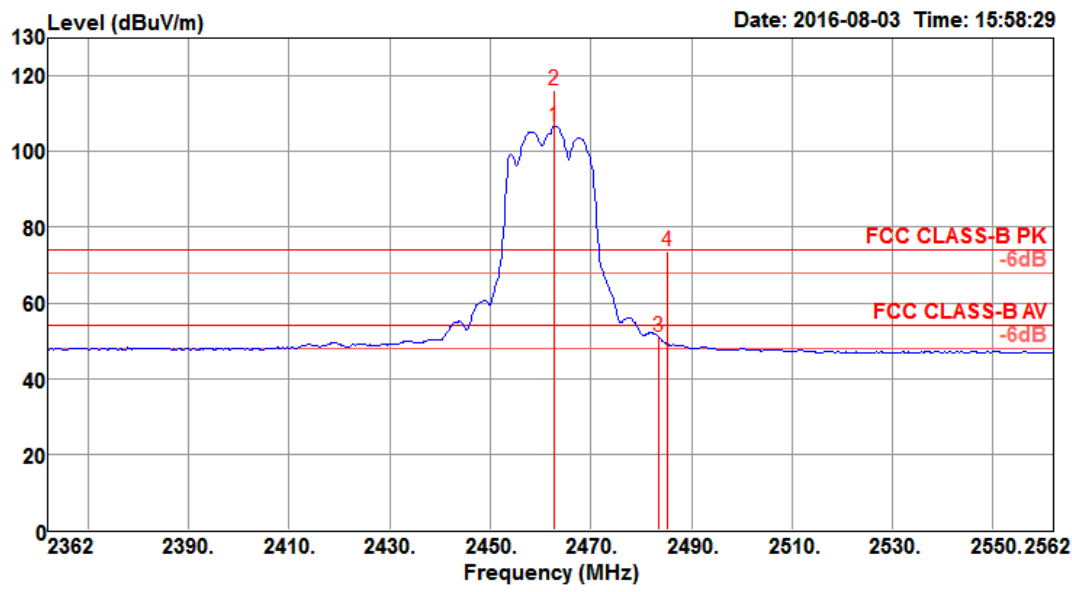
Date: 2016-08-03 Time: 15:06:31

Item	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	2329.60	67.25	74.00	-6.75	34.31	4.48	28.46	0.00	166	179	Peak	VERTICAL
2	2387.80	53.98	54.00	-0.02	20.87	4.54	28.57	0.00	166	179	Average	VERTICAL
3	2441.20	113.79			80.50	4.60	28.69	0.00	166	179	Average	VERTICAL
4	2441.20	124.42			91.13	4.60	28.69	0.00	166	179	Peak	VERTICAL
5	2485.00	51.17	54.00	-2.83	17.77	4.63	28.77	0.00	166	179	Average	VERTICAL
6	2494.30	64.44	74.00	-9.56	31.01	4.64	28.79	0.00	166	179	Peak	VERTICAL

Item 3, 4 are the fundamental frequency at 2437 MHz.



Channel 11



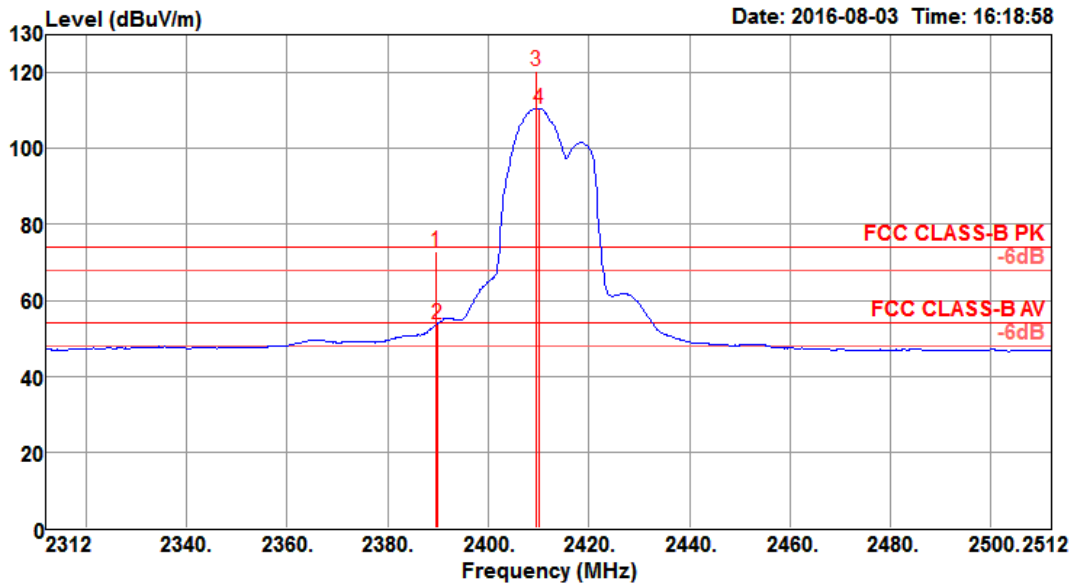
	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	Line	Limit	Level	Loss	Factor	Factor	cm	deg		
1	2462.80	106.73			73.39	4.61	28.73	0.00	160	191	Average	VERTICAL
2	2462.80	116.17			82.83	4.61	28.73	0.00	160	191	Peak	VERTICAL
3	2483.50	50.93	54.00	-3.07	17.53	4.63	28.77	0.00	160	191	Average	VERTICAL
4	2485.20	73.59	74.00	-0.41	40.19	4.63	28.77	0.00	160	191	Peak	VERTICAL

Item 1, 2 are the fundamental frequency at 2462 MHz.



Configurations	IEEE 802.11n MCS0 HT20 CH 1, 6, 11 / Chain 1 + Chain 2 + Chain 3
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Channel 1

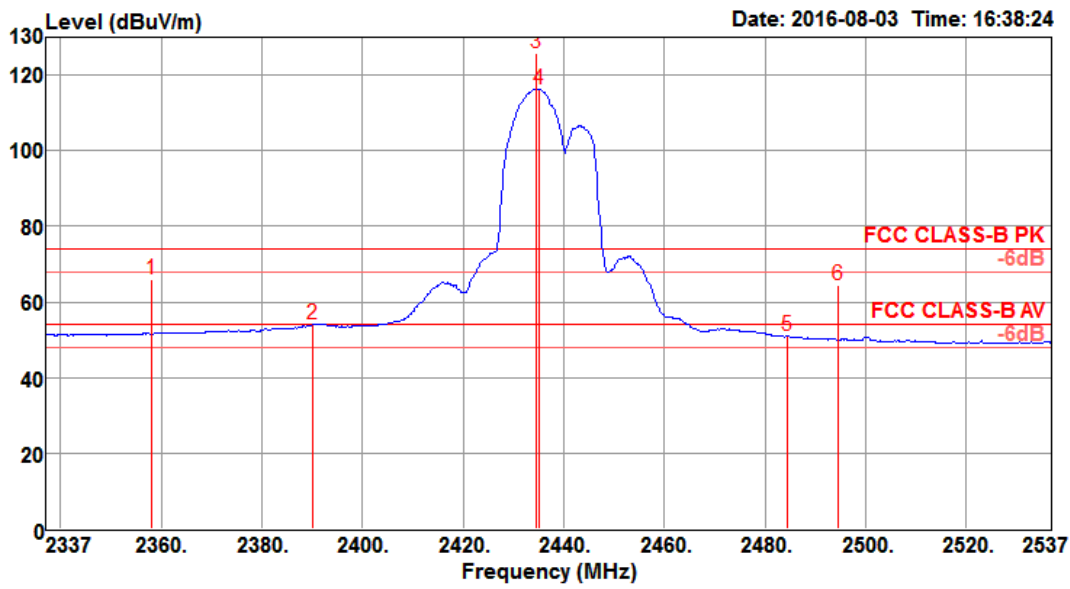


Date: 2016-08-03 Time: 16:18:58

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	2389.60	72.87	74.00	-1.13	39.76	4.54	28.57	0.00	166	188 Peak	VERTICAL
2	2390.00	53.80	54.00	-0.20	20.69	4.54	28.57	0.00	166	188 Average	VERTICAL
3	2409.60	120.54			87.36	4.57	28.61	0.00	166	188 Peak	VERTICAL
4	2410.00	110.62			77.44	4.57	28.61	0.00	166	188 Average	VERTICAL

Item 3, 4 are the fundamental frequency at 2412 MHz.

Channel 6

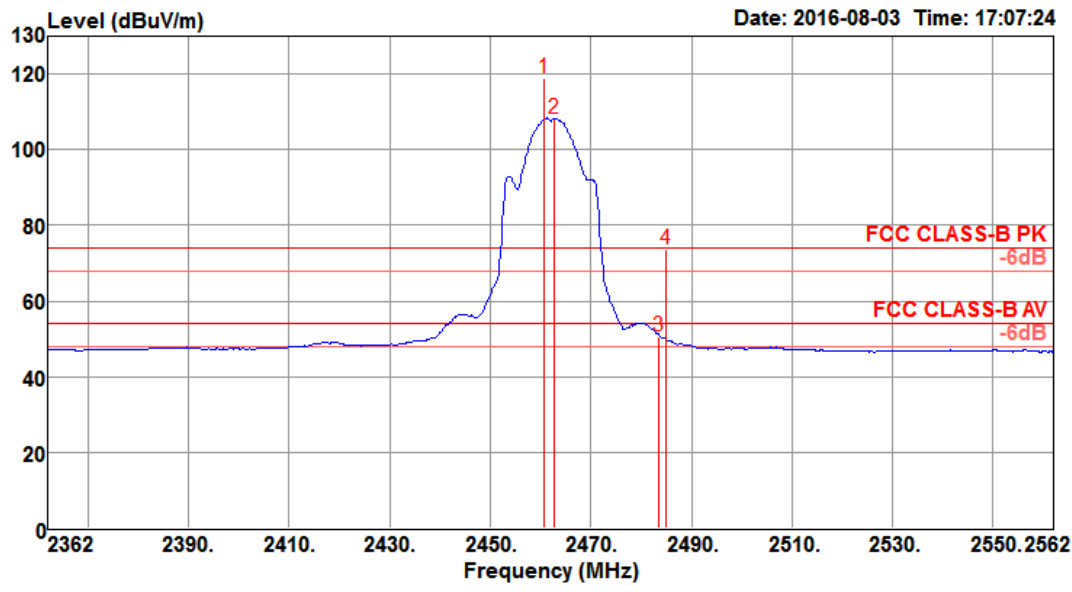


Date: 2016-08-03 Time: 16:38:24

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	2358.20	66.04	74.00	-7.96	33.02	4.51	28.51	0.00	164	190 Peak	VERTICAL
2	2390.00	53.98	54.00	-0.02	20.87	4.54	28.57	0.00	164	190 Average	VERTICAL
3	2434.60	125.69			92.43	4.59	28.67	0.00	164	190 Peak	VERTICAL
4	2435.00	116.18			82.92	4.59	28.67	0.00	164	190 Average	VERTICAL
5	2484.60	50.89	54.00	-3.11	17.49	4.63	28.77	0.00	164	190 Average	VERTICAL
6	2494.70	64.29	74.00	-9.71	30.86	4.64	28.79	0.00	164	190 Peak	VERTICAL

Item 3, 4 are the fundamental frequency at 2437 MHz.

Channel 11



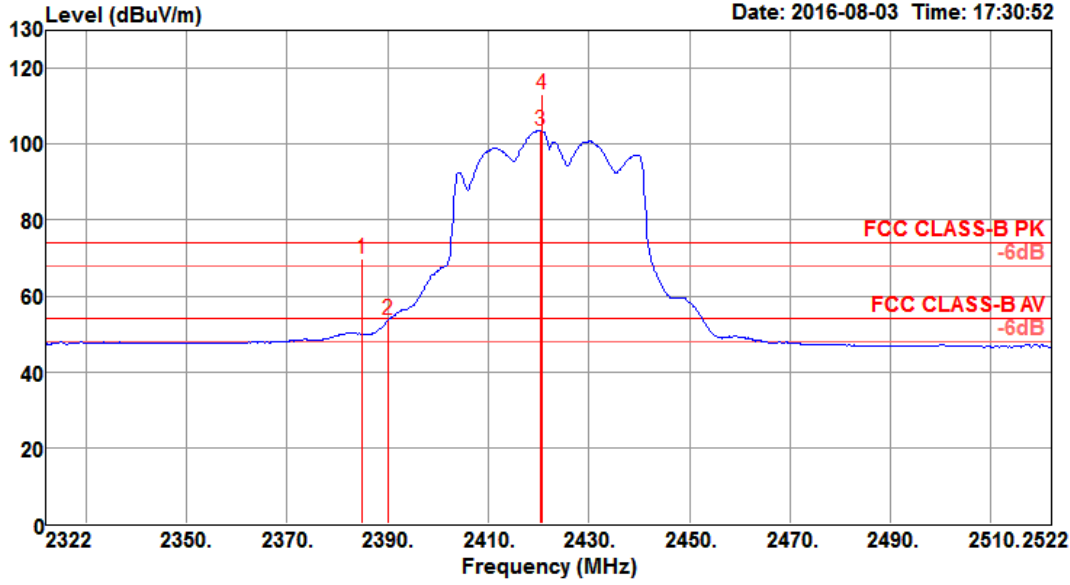
	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	2460.80	118.71			85.37	4.61	28.73	0.00	154	198	Peak	VERTICAL
2	2462.80	108.24			74.90	4.61	28.73	0.00	154	198	Peak	VERTICAL
3	2483.50	50.71	74.00	-23.29	17.31	4.63	28.77	0.00	154	198	Peak	VERTICAL
4	2484.80	73.49	74.00	-0.51	40.09	4.63	28.77	0.00	154	198	Peak	VERTICAL

Item 1, 2 are the fundamental frequency at 2462 MHz.



Configurations	IEEE 802.11n MCS0 HT40 CH 3, 6, 9 / Chain 1 + Chain 2 + Chain 3
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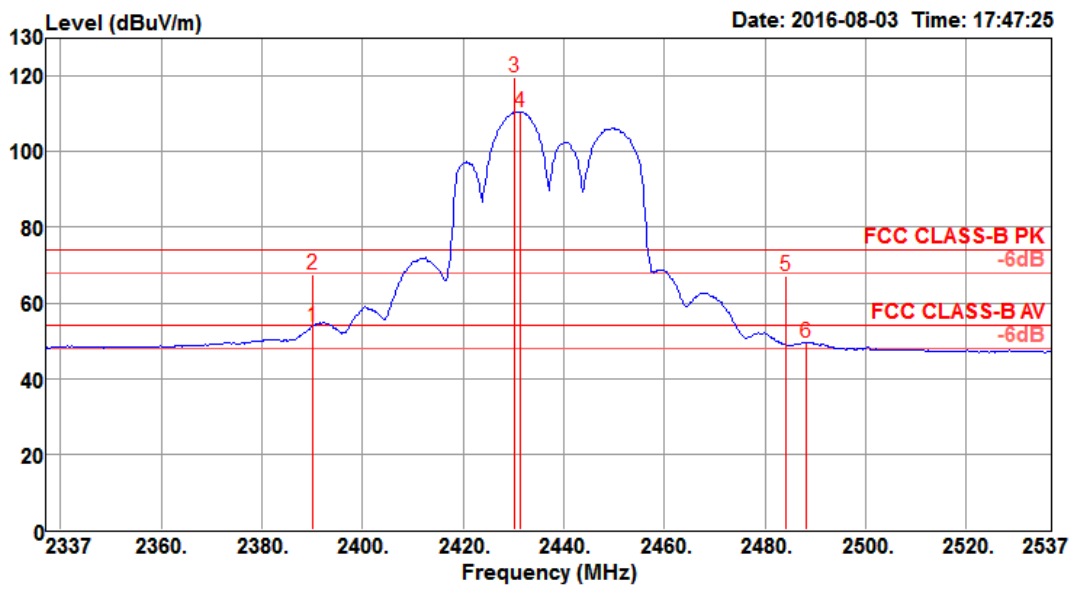
Channel 3



	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	2384.80	69.98	74.00	-4.02	36.87	4.54	28.57	0.00	161	183	Peak	VERTICAL
2	2390.00	53.52	54.00	-0.48	20.41	4.54	28.57	0.00	161	183	Average	VERTICAL
3	2420.40	103.63			70.41	4.58	28.64	0.00	161	183	Average	VERTICAL
4	2420.80	113.09			79.87	4.58	28.64	0.00	161	183	Peak	VERTICAL

Item 3, 4 are the fundamental frequency at 2422 MHz.

Channel 6

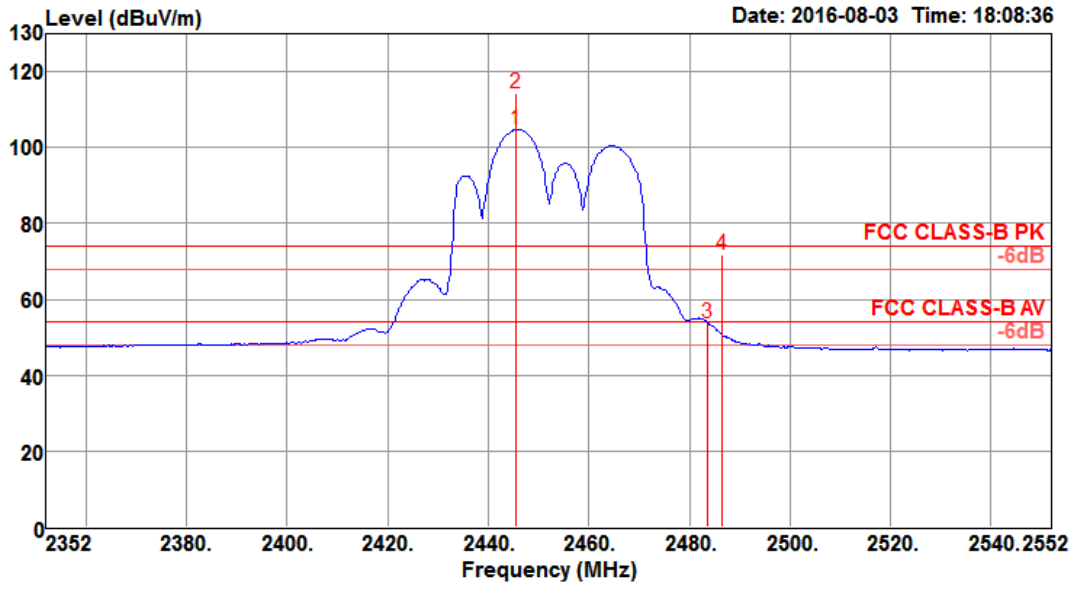


	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	2390.00	53.53	54.00	-0.47	20.42	4.54	28.57	0.00	162	184	Average	VERTICAL
2	2390.00	67.48	74.00	-6.52	34.37	4.54	28.57	0.00	162	184	Peak	VERTICAL
3	2430.20	119.85			86.61	4.58	28.66	0.00	162	184	Peak	VERTICAL
4	2431.40	110.29			77.05	4.58	28.66	0.00	162	184	Average	VERTICAL
5	2484.20	66.98	74.00	-7.02	33.58	4.63	28.77	0.00	162	184	Peak	VERTICAL
6	2488.20	49.53	54.00	-4.47	16.13	4.63	28.77	0.00	162	184	Average	VERTICAL

Item 3, 4 are the fundamental frequency at 2437 MHz.



Channel 9



	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	2445.60	104.81			71.52	4.60	28.69	0.00	154	184	Average	VERTICAL
2	2445.60	114.44			81.15	4.60	28.69	0.00	154	184	Peak	VERTICAL
3	2483.50	53.74	54.00	-0.26	20.34	4.63	28.77	0.00	154	184	Average	VERTICAL
4	2486.40	71.85	74.00	-2.15	38.45	4.63	28.77	0.00	154	184	Peak	VERTICAL

Item 1, 2 are the fundamental frequency at 2452 MHz.

Note:

Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.