

FCC Test Report

Equipment : GRAPHICS TABLET COMPUTER

Brand Name : Wacom

Model No. : DTH-W1620

FCC ID : HV4DTHW1620

Standard : 47 CFR FCC Part 15.247

RF Specification : Wi-Fi

Frequency : 2400 MHz – 2483.5 MHz

FCC Classification : DTS

Applicant / : Wacom Co., Ltd.

Manufacturer 2-510-1 Toyonodai, Kazo-shi, Saitama 349-1148 Japan

The product sample received on Jul. 13, 2016 and completely tested on Sep. 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.

Reviewed by:

Kevin Liang / Assistant Manager

lac-MRA

Testing Laboratory
1190

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Appendix I. Test Result of AC Power-line Conducted Emissions

Appendix A. Test Result of Emission Bandwidth

Appendix B. Test Result of Maximum Conducted Output Power

Appendix C. Test Result of Power Spectral Density

Appendix D. Test Result of Transmitter Radiated Bandedge Emissions

Appendix E. Transmitter Radiated Unwanted Emissions

Appendix F. Test Photos

Appendix G. Photographs of EUT

Summary of Test Result

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	Conformance Test Specifications							
Report Clause			Measured	Limit	Result			
1.1.2	15.203	Antenna Requirement	Antenna connector mechanism complied	FCC 15.203	Complied			
3.1	15.207	AC Power-line Conducted Emissions	[dBuV]: 0.158270MHz 61.53 (Margin 4.42dB) - QP 50.34 (Margin 5.61dB) - AV	FCC 15.203	Complied			
3.2	15.247(a)	DTS Bandwidth	Refer as Appendix A	≥500kHz	Complied			
3.3	15.247(b)	Fundamental Emission Output Power	Refer as Appendix B	Power [dBm]:30	Complied			
3.4	15.247(e)	Power Spectral Density	Refer as Appendix C	PSD [dBm/3kHz]:8	Complied			
3.5	15.247(d)	Test Result of Transmitter Radiated Bandedge Emissions	Non-Restricted Bands: 2399.892 MHz: 26.12 dB Restricted Bands [dBuV/m at 3m]: 2491.00 MHz 67.82 (Margin 6.18 dB) – PK Restricted Bands [dBuV/m at 3m]: 2485.28 MHz 52.97 (Margin 1.03 dB) - AV	Non-Restricted Bands:> 20 dBc Bands: FCC 15.209	Complied			
3.6	15.247(d)	Transmitter Radiated Unwanted Emissions	Restricted Bands [dBuV/m at 3m]: 7311.000MHz 51.42 (Margin 2.58 dB) - AV 57.07 (Margin 16.93 dB) - PK	Non-Restricted Bands:> 20 dBc Restricted Bands: FCC 15.209	Complied			

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Revision History

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Report No.	Version	Description	Issued Date
FR662241AC	Rev. 01	Initial issue of report	Oct. 03, 2016
FR662241AC	Rev. 02	Revise the description of operating mode Update Photographs of EUT	Oct. 15, 2016

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1 General Description

1.1 Information

1.1.1 RF General Information

Band	Mode	BWch (MHz)	Channel Number	Nss-Min	Nant
2.4G	11b	20	1-11[11]	1	2
2.4G	11g	20	1-11[11]	1	2
2.4G	HT20	20	1-11[11]	1,(M0-15)	2
2.4G	HT40	40	3-9[7]	1,(M0-15)	2

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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., $\dot{2}(2,3)$ 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

	Antenna Category								
\boxtimes	Integral antenna (antenna permanently attached)								
	☐ Temporary RF connector provided								
	No temporary RF connector provided Transmit chains bypass antenna and soldered temporary RF connector provided for connected measurement. In case of conducted measurements the transmitter shall be connected to the measuring equipment via a suitable attenuator and correct for all losses in the RF path.								
	External antenna (dedicated antennas)								
	Single power level with corresponding antenna(s).								
	Multiple power level and corresponding antenna(s).								

No.	Ant. Cat. Ant. Type		Gain _(dBi)
1	Integral	PIFA	0.9
2	Integral	PIFA	-1.76

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1.1.3 Type of EUT

	Identify EUT					
EUT Serial Number		N/A				
Pres	sentation of Equipment					
	Type of EUT					
\boxtimes	Stand-alone					
	Combined (EUT where the radio part is fully integrated within another device)					
	Combined Equipment - Brand Name / Model No.:					
	Plug-in radio (EUT intended for a variety of host systems)					
	Host System - Brand Name / Model No.:					
	Other:					

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1.1.4 Mode Test Duty Cycle

	Operated Mode for Worst Duty Cycle						
\boxtimes	□ Operated test mode for worst duty cycle						
	Test Signal Duty Cycle (x)	Power Duty Factor [dB] – (10 log 1/x)					
\boxtimes	99.3% - IEEE 802.11b	0.03					
\boxtimes	94.7% - IEEE 802.11g	0.24					
\boxtimes	95.4% - IEEE 802.11n (HT20)	0.20					
\boxtimes	84.2% - IEEE 802.11n (HT40)	0.75					

1.1.5 EUT Operational Condition

Supply Voltage	\boxtimes	AC mains	\boxtimes	DC		
Type of DC Source	\boxtimes	External AC adapter		From Host System	\boxtimes	Battery

1.1.6 EUT Operate Information

Items	Description				
Beamforming Function		With beamforming	\boxtimes	Without beamforming	
Operate Condition	\boxtimes	Point-to-multipoint (P2M)		Point-to-point (P2P)	

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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
- KDB 558074 D01 v03r05
- KDB 662911 D01 v02r01

1.3 Testing Location Information

	Testing Location									
\boxtimes	HWA YA	ADE		No. 52, Hwa Ya 1st Rd., Hwa Ya Technology Park, Kwei-Shan District, Tao Yuan City, Taiwan, R.O.C.						
	TEL: 886-3-327-3456									
Te	Test Condition Test Site No. Test Engineer Test Environment Test Date				Test Date					
Α	C Conductio	n	С	CO04-HY	Ryan	22°C / 54%	09/08/2016			
RF Conducted TH01-HY Ryan 24.5°C / 66.5% 22/09/20		22/09/2016								
	Radiated		03	CH09-HY	Thor Wei	24.4°C / 61.3%	18/08/2016			

Test site registered number [553509] with FCC.

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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)

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Measurement Uncertainty					
Test Item		Uncertainty			
AC power-line conducted emissions		±2.3 dB			
Emission bandwidth, 6dB bandwidth		±0.6 %			
RF output power, conducted		±0.1 dB			
Power density, conducted		±0.6 dB			
Unwanted emissions, conducted	9 – 150 kHz	±0.4 dB			
	0.15 – 30 MHz	±0.4 dB			
	30 – 1000 MHz	±0.6 dB			
	1 – 18 GHz	±0.5 dB			
	18 – 40 GHz	±0.5 dB			
	40 – 200 GHz	N/A			
All emissions, radiated	9 – 150 kHz	±2.5 dB			
	0.15 – 30 MHz	±2.3 dB			
	30 – 1000 MHz	±2.6 dB			
	1 – 18 GHz	±3.6 dB			
	18 – 40 GHz	±3.8 dB			
	40 – 200 GHz	N/A			
Temperature		±0.8 °C			
Humidity		±5 %			
DC and low frequency voltages		±0.9%			
Time		±1.4 %			
Duty Cycle		±0.6 %			

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Test Configuration of EUT 2

2.1 **The Worst Case Modulation Configuration**

Worst Modulation Used for Conformance Testing					
Modulation Mode	Transmit Chains (N _{TX})	Data Rate / MCS	Worst Data Rate / MCS		
11b	2	1-11 Mbps	1 Mbps		
11g	2	6-54 Mbps	6 Mbps		
HT20	2	MCS 0-15	MCS 0		
HT40	2	MCS 0-15	MCS 0		

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Note 1: IEEE Std. 802.11n modulation consists of HT20 and HT40 (HT: High Throughput). The EUT support HT20 and HT40. Worst modulation mode of Guard Interval (GI) is 800ns.

Note 2: Modulation modes consist below configuration:

11b: IEEE 802.11b, 11g: IEEE 802.11g, HT20/HT40: IEEE 802.11n

2.2 **Test Channel Mode**

Test Software Version	DRTU V1.8.3
-----------------------	-------------

Band	Mode	BWch (MHz)	Nss-Min	Nant	Ch. (MHz)	Range	Power Setting
2.4G	11b	20	1	2	2412	L	11.5
2.4G	11b	20	1	2	2437	М	11.5
2.4G	11b	20	1	2	2462	Н	11.5
2.4G	11g	20	1	2	2412	L	10.75
2.4G	11g	20	1	2	2437	М	10.625
2.4G	11g	20	1	2	2462	Н	10.75
2.4G	HT20	20	1,(M0)	2	2412	L	10.75
2.4G	HT20	20	1,(M0)	2	2437	М	10.75
2.4G	HT20	20	1,(M0)	2	2462	Н	10.875
2.4G	HT40	40	1,(M0)	2	2422	L	11.25
2.4G	HT40	40	1,(M0)	2	2437	М	11.25
2.4G	HT40	40	1,(M0)	2	2452	Н	11.125

Abbreviation Explanation

Band	Mode	BWch (MHz)	Nss-Min	Nant	Ch. (MHz)	Range	Test Cond.	Abbreviation
2.4G	HT20	20	1,(M0-15)	2	2412	L	TN,VN	2.4G;HT20;20;1,(M0-15);2;2412;L;TN,VN
2.4G	HT40	40	1,(M0-15)	2	2437	М	TN,VN	2.4G;HT40;40;1,(M0-15);2;2437;M;TN,VN

Note:

- Test range channel consist of L (Low Ch.), M (Middle Ch.), H (High Ch.), S (Single Ch). Test range temperature consist of L (Low Temp.), N (Normal Temp.), H(High Temp.)
- Test range Voltage consist of L (Low Voltage.), N (Normal Voltage), H(High . Voltage).

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2.3 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 Test Voltage: 120Vac / 60Hz			
Operating Mode	Operating Mode Description			
1	HT40 2437MHz, Adapter with charging mode			

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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			

Th	e Worst Case Mode for Fo	ollowing Conformance Te	sts			
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.					
	☐ EUT will be placed in fixed position.					
User Position	EUT will be placed in mobile position and operating multiple positions.					
	EUT will be a hand-held or body-worn battery-powered devices and operating multiple positions.					
Operating Mode < 1GHz		Adapter with charging mode				
	X Plane	Y Plane	Z Plane			
Orthogonal Planes of EUT						
Worst Planes of EUT		V				

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2.4 Accessories and Support Equipment

		Accessories		
	Brand Name	DELTA	Model Name	ADP-100PB B
AC Adapter	Power Rating	I/P: 100 - 240Vac, 1.8A, O/P: 5V/3A or 20V/5A		
Touch Pen	Brand Name	Wacom	Model Name	KP-504E
WLAN/BT Module	Brand Name	Intel	Model Name	8260NGW
GPS chip	Brand Name	BROADCOM	Model Name	BCM4752IFBG

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Reminder: Regarding to more detail and other information, please refer to user manual.

Support Equipment - RF Conducted					
No.	Equipment	Brand Name	Model Name		
1	-	-	-		

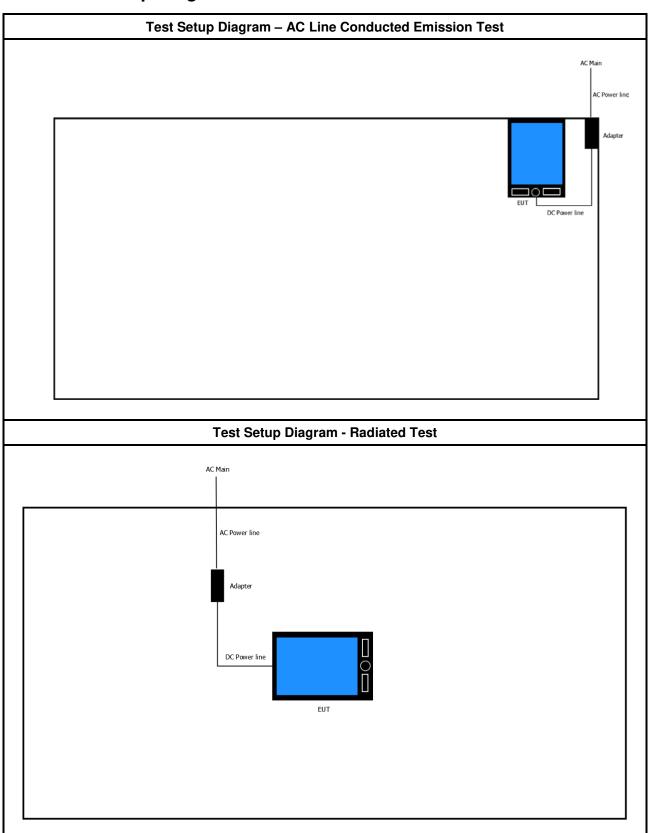
	Support Equipment - AC Conduction and Radiated Emission					
No.	Equipment Brand Name Model Name					
1	-	-	-			

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2.5 **Test Setup Diagram**



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Transmitter Test Result

3.1 **AC Power-line Conducted Emissions**

3.1.1 AC Power-line Conducted Emissions Limit

AC Powe	er-line Conducted Emissions L	imit
Frequency Emission (MHz)	Quasi-Peak	Average
0.15-0.5	66 - 56 *	56 - 46 *
0.5-5	56	46
5-30	60	50

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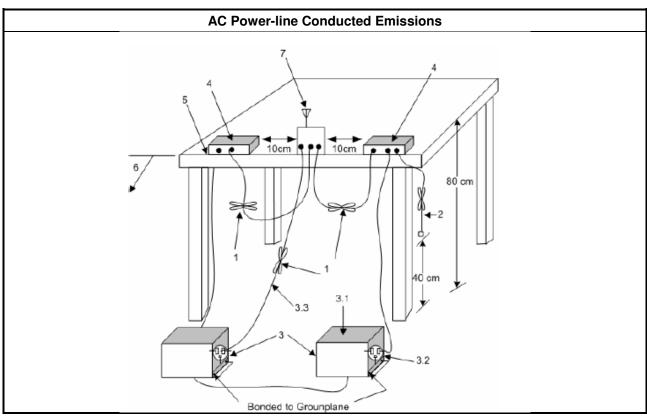
3.1.2 **Measuring Instruments**

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

Test Procedures 3.1.3

Ī	Test Method
Ī	■ Refer as ANSI C63.10-2013, clause 6.2 for AC power-line conducted emissions.

3.1.4 **Test Setup**



Test Result of AC Power-line Conducted Emissions

Refer as Appendix I

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3.2 DTS Bandwidth

3.2.1 6dB Bandwidth Limit

6dB Bandwidth Limit						
Systems using digital modulation techniques:						
■ 6 dB bandwidth ≥ 500 kHz.						

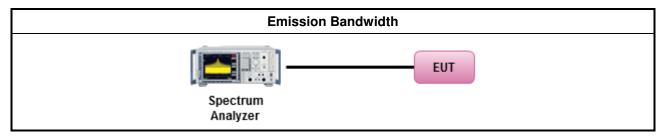
3.2.2 Measuring Instruments

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

3.2.3 Test Procedures

	Test Method						
•	■ For the emission bandwidth shall be measured using one of the options below:						
Refer as KDB 558074, clause 8.1 Option 1 for 6 dB bandwidth measurement.							
		Refer as KDB 558074, clause 8.2 Option 2 for 6 dB bandwidth measurement.					
		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 A

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3.3 Fundamental Emission Output Power

3.3.1 Fundamental Emission Output Power Limit

Max	Maximum Peak Conducted Output Power or Maximum Conducted Output Power Limit								
•	240	0-2483.5 MHz Band:							
	•	If $G_{TX} \le 6$ dBi, then $P_{Out} \le 30$ dBm (1 W)							
	•	Point-to-multipoint systems (P2M): If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)$ dBm							
	•	■ Point-to-point systems (P2P): If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)/3$ dBm							
	•	Smart antenna system (SAS):							
		- 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							
e.i.r	.p. P	ower Limit:							
•	240	0-2483.5 MHz Band							
	•	Point-to-multipoint systems (P2M): $P_{eirp} \le 36 \text{ dBm } (4 \text{ W})$							
	•	Point-to-point systems (P2P): $P_{eirp} \le MAX(36, [P_{Out} + G_{TX}]) dBm$							
	•	Smart antenna system (SAS)							
		- Single beam: $P_{eirp} \le MAX(36, P_{Out} + G_{TX}) dBm$							
		- Overlap beam: $P_{eirp} \le MAX(36, P_{Out} + G_{TX}) dBm$							
		- Aggregate power on all beams: $P_{eirp} \le MAX(36, [P_{Out} + G_{TX} + 8]) dBm$							
G_{TX}	\mathbf{P}_{Out} = maximum peak conducted output power or maximum conducted output power in dBm, \mathbf{G}_{TX} = the maximum transmitting antenna directional gain in dBi. \mathbf{P}_{eirp} = e.i.r.p. Power in dBm.								

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3.3.2 Measuring Instruments

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

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3.3.3 Test Procedures

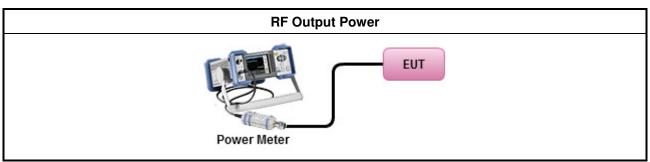
	Test Method
•	Maximum Peak Conducted Output Power
	☐ Refer as KDB 558074, clause 9.1.1 Option 1 (RBW ≥ EBW method).
	Refer as KDB 558074, clause 9.1.2 Option 2 (peak power meter for VBW ≥ DTS BW)
•	Maximum Conducted Output Power
	Duty cycle ≥ 98%
	Refer as KDB 558074, clause 9.2.2.4 Method AVGSA-2 (spectral trace averaging).
	Duty cycle < 98%
	Refer as 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
	Refer as KDB 558074, clause 9.2.3 Method AVGPM (using an RF average power meter).
-	For conducted measurement.
	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.
	If multiple transmit chains, EIRP calculation could be following as methods: P _{total} = P ₁ + P ₂ + + P _n (calculated in linear unit [mW] and transfer to log unit [dBm]) EIRP _{total} = P _{total} + DG

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3.3.4 Test Setup



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3.3.5 Test Result of Maximum Peak Conducted Output Power

Refer as Appendix B

3.3.6 Test Result of Maximum Average Conducted Output Power

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3.4 Power Spectral Density

3.4.1 Power Spectral Density Limit

Power Spectral Density Limit Power Spectral Density (PSD) ≤ 8 dBm/3kHz

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3.4.2 Measuring Instruments

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

3.4.3 Test Procedures

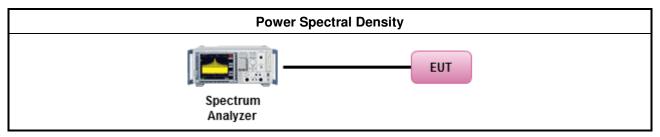
		Test Method					
•	Peak power spectral density procedures that the same method as used to determine the conducted output power. If maximum peak conducted output power was measured to demonstrate compliance to the output power limit, then the peak PSD procedure below (Method PKPSD) shall be used. If maximum 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).						
		Refer as KDB 558074, clause 10.2 Method PKPSD (RBW=3-100kHz; Detector=peak).					
	Duty	cycle ≥ 98%					
		Refer as KDB 558074, clause 10.5 Method AVGPSD-2 (spectral trace averaging).					
Duty cycle < 98%							
		Refer as KDB 558074, clause 10.6 Method AVGPSD-2 Alt. (slow sweep speed)					
•	For co	onducted measurement.					
	•	f The EUT supports multiple transmit chains using options given below:					
		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 N _{TX} 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.					
Option 2: Measure and sum spectral maxima across the outputs. With this technique are measured at each output of the device at the required resolution bandwe maximum value (peak) of each spectrum is determined. These maximum values summed mathematically in linear power units across the outputs. These operation performed separately over frequency spans that have different out-of-band or emission limits.							
		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.					

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3.4.4 Test Setup



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3.4.5 Test Result of Power Spectral Density

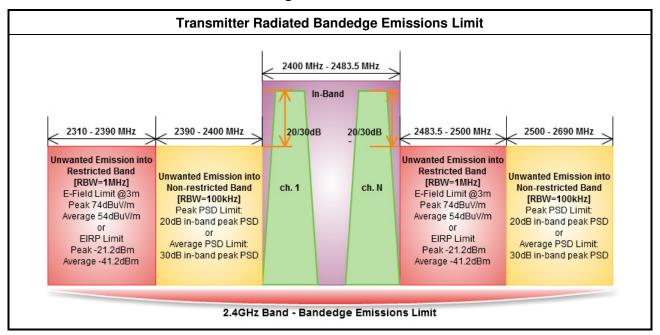
Refer as Appendix C

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3.5 Transmitter Radiated Bandedge Emissions

3.5.1 Transmitter Radiated Bandedge Emissions Limit



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3.5.2 Measuring Instruments

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

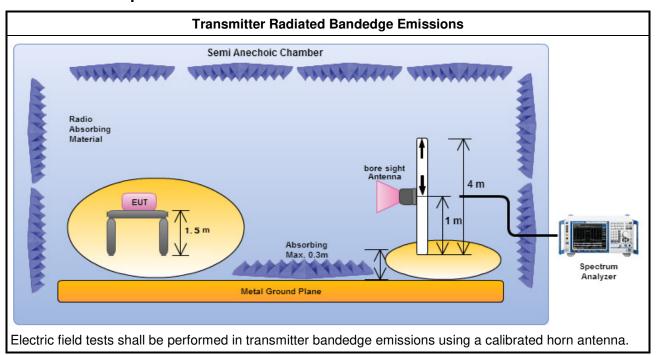
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3.5.3 Test Procedures

		Test Method						
\boxtimes	The	average emission levels shall be measured in [duty cycle ≥ 98 or duty factor].						
		er as ANSI C63.10, clause 6.10 bandedge testing shall be performed at the lowest frequency and highest frequency channel within the allowed operating band.						
\boxtimes	For	or the transmitter unwanted emissions shall be measured using following options below:						
	\boxtimes	Refer as KDB 558074, clause 11 for unwanted emissions into non-restricted bands.						
	\boxtimes	Refer as KDB 558074, clause 12 for unwanted emissions into restricted bands.						
		Refer as KDB 558074, clause 12.2.5.1 Option 1 (trace averaging for duty cycle ≥98%)						
		Refer as KDB 558074, clause 12.2.5.2 Option 2 (trace averaging + duty factor).						
Refer as KDB 558074, clause 12.2.5.3 Option 3 (Reduced VBW≥1/T).								
	☐ Refer as ANSI C63.10, clause 4.1.4.2.3 (Reduced VBW). VBW ≥ 1/T, where T is pulse time.							
		Refer as ANSI C63.10, clause 4.1.4.2.4 average value of pulsed emissions.						
		Refer as KDB 558074, clause 11.3 and 12.2.4 measurement procedure peak limit.						
\boxtimes	For	the transmitter bandedge emissions shall be measured using following options below:						
Refer as KDB 558074, clause 13.3 for narrower resolution bandwidth (100kHz) using to power and summing the spectral levels (i.e., 1 MHz).								
	\boxtimes	Refer as ANSI C63.10, clause 6.10 for band-edge testing.						
		Refer as ANSI C63.10, clause 6.10.6.2 for marker-delta method for band-edge measurements.						
	•							

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3.5.4 Test Setup



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FCC Test Report

3.5.5 Test Result of Emissions in Non-restricted Frequency Bands

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Refer as Appendix D

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3.6 Transmitter Radiated Unwanted Emissions

3.6.1 Transmitter in Radiated Unwanted Emissions 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			

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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.

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.

3.6.2 Measuring Instruments

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

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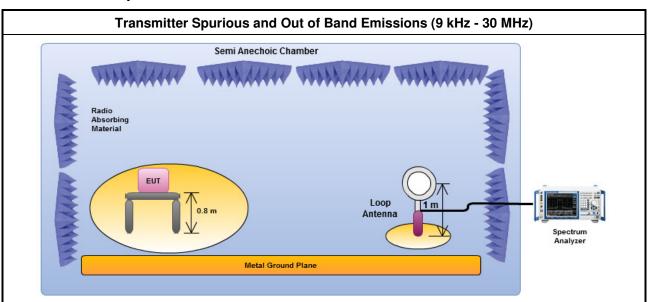
3.6.3 Test Procedures

		Test Method						
	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).							
\boxtimes	The	average emission levels shall be measured in [duty cycle ≥ 98 or duty factor].						
\boxtimes	For	the transmitter unwanted emissions shall be measured using following options below:						
	\boxtimes	Refer as KDB 558074, clause 11 for unwanted emissions into non-restricted bands.						
	\boxtimes	Refer as KDB 558074, clause 12 for unwanted emissions into restricted bands.						
		Refer as KDB 558074, clause 12.2.5.1 Option 1 (trace averaging for duty cycle ≥98%)						
Refer as KDB 558074, clause 12.2.5.2 Option 2 (trace averaging + duty factor								
		Refer as KDB 558074, clause 12.2.5.3 Option 3 (Reduced VBW≥1/T).						
		Refer as ANSI C63.10, clause 4.1.4.2.3 (Reduced VBW). VBW ≥ 1/T, where T is pulse time.						
	Refer as ANSI C63.10, clause 4.1.4.2.4 average value of pulsed emissions.							
		Refer as KDB 558074, clause 11.3 and 12.2.4 measurement procedure peak limit.						
		Refer as KDB 558074, clause 12.2.3 measurement procedure Quasi-Peak limit.						
\boxtimes	For	radiated measurement, refer as KDB 558074, clause 12.2.7.						
	\boxtimes	Refer as ANSI C63.10, clause 6.4 for radiated emissions below 30 MHz and test distance is 3m.						
	\boxtimes	Refer as ANSI C63.10, clause 6.5 for radiated emissions 30 MHz to 1 GHz and test distance is 3m.						
	\boxtimes	Refer as ANSI C63.10, clause 6.6 for radiated emissions above 1 GHz and test distance is 3m.						
\boxtimes	The	any unwanted emissions level shall not exceed the fundamental emission level.						
\boxtimes	All amplitude of spurious emissions that are attenuated by more than 30 dB below the permissible value has no need to be reported.							

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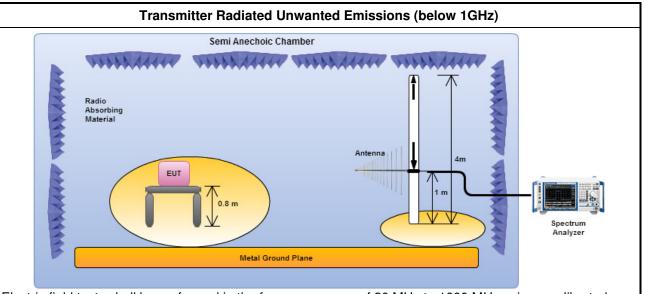


3.6.4 Test Setup



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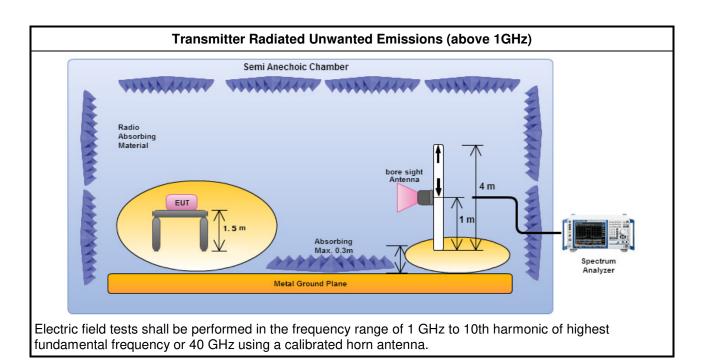
Magnetic field tests shall be performed in the frequency range of 9 kHz to 30 MHz using a calibrated loop antenna.



Electric field tests shall be performed in the frequency range of 30 MHz to 1000 MHz using a calibrated bi-log antenna.

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3.6.5 Transmitter Radiated Unwanted Emissions (Below 30MHz)

The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported. Any spurious which has more than 20 dB of margin compared to the applicable limit is not necessarily reported.

3.6.6 Transmitter Radiated Unwanted Emissions

Refer as Appendix E

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4 Test Equipment and Calibration Data

Instrument for AC Conduction

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Last Cal.	Calibration Due Date	
EMC Receiver	KEYSIGHT	N9038A	MY54130031	20 Hz ~ 8.4 GHz	14/04/2016	13/04/2017	
LISN	SCHWARZBECK MESS-ELEKTRONIK	NSLK 8127	8127-477	9 kHz ~ 30 MHz	26/01/2016	25/01/2017	
LISN (Support Unit)	R&S	ENV216	101295	9 kHz ~ 30 MHz	04/11/2015	03/11/2016	
RF Cable-CON	HUBER+SUHNER	RG213/U	07611832020001	9 kHz ~ 30 MHz	30/10/2015	29/10/2016	
EMI Filter	LINDGREN	LRE-2030	2651	< 450 Hz	NCR	NCR	

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NCR: No Calibration Require.

Instrument for Conducted Test

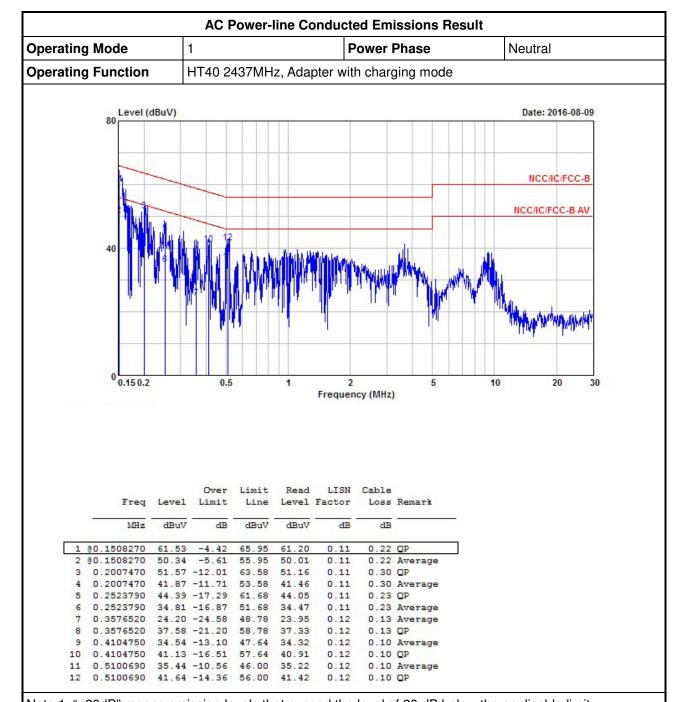
Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Last Cal.	Calibration Due Date
Spectrum Analyzer	R&S	FSV 40	101013	9KHz~40GHz	16/02/2016	15/02/2017
Power Sensor	Anritsu	MA2411B	917017	300MHz ~ 40GHz	04/02/2016	03/02/2017
Power Meter	Anritsu	ML2495A	949003	300MHz ~ 40GHz	04/02/2016	03/02/2017
Signal Generator	R&S	SMR40	100116	10MHz ~ 40GHz	21/07/2016	20/07/2017

Instrument for Radiated Test

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Last Cal.	Calibration Due Date
3m Semi Anechoic Chamber	TDK	SAC-3M	03CH09-HY	30MHz ~ 1GHz 3m	25/04/2016	24/04/2017
3m Semi Anechoic Chamber	TDK	SAC-3M	03CH09-HY	1GHz ~ 18GHz 3m	30/06/2016	29/06/2017
Amplifier	EMC	EMC9135	980232	9kHz ~ 1.0GHz	29/01/2016	28/01/2017
Amplifier	Agilent	8449B	3008A02096	1GHz ~ 26.5GHz	11/04/2016	10/04/2017
Spectrum	KEYSIGHT	N9010A	MY54200885	10Hz ~ 44GHz	04/07/2016	03/07/2017
Bilog Antenna & 5dB Attenuator	TESEQ & MTJ	CBL 6111D & MTJ6102	35418	30MHz ~ 1GHz	31/03/2016	30/03/2017
Horn Antenna	SCHWARZBECK	BBHA 9120D	BBHA 9120D 1534	1GHz ~ 18GHz	22/04/2016	21/04/2017
Horn Antenna	SCHWARZBECK	BBHA9170	BBHA9170614	18GHz ~ 40GHz	04/01/2016	03/01/2017
Amplifier	MITEQ	JS44-18004000-33-8P	1840917	18GHz ~ 40GHz	02/06/2015	01/06/2017
Loop Antenna	ROHDE&SCHWARZ	HFH2-Z2	100330	9 kHz~30 MHz	10/11/2014	09/11/2016

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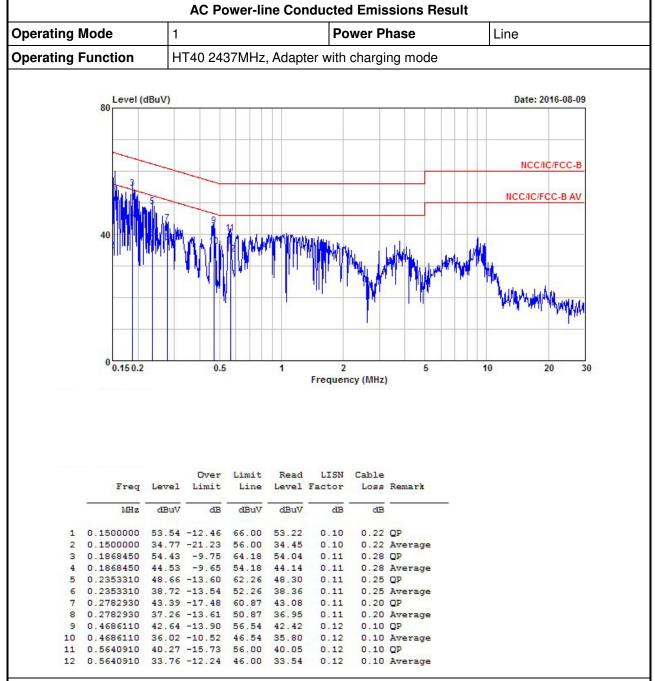
Note 1: ">20dB" means emission levels that exceed the level of 20 dB below the applicable limit. Note 2: "N/F" means Nothing Found emissions (No emissions were detected.)

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

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EBW Result
Appendix A

Summary

Mode	Max-N dB	Max-OBW	ITU-Code	Min-N dB	Min-OBW	
	(Hz)	(Hz)		(Hz)	(Hz)	
2.4G;11b;20;1;2	10.1M	13.793M	13M8G1D	10.025M	13.593M	
2.4G;11g;20;1;2	15.325M	16.417M	16M4D1D	12.275M	16.367M	
2.4G;HT20;20;1,(M0);2	15.625M	17.616M	17M6D1D	12.275M	17.591M	
2.4G;HT40;40;1,(M0);2	35.05M	36.182M	36M2D1D	32.45M	35.932M	

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EBW Result
Appendix A

Result

Mode	Result	Limit	P1-N dB	P1-OBW	P2-N dB	P2-OBW
			(Hz)	(Hz)	(Hz)	(Hz)
2.4G;11b;20;1;2;2412;L;TN,VN	Pass	500k	10.025M	13.643M	10.05M	13.793M
2.4G;11b;20;1;2;2437;M;TN,VN	Pass	500k	10.025M	13.668M	10.05M	13.668M
2.4G;11b;20;1;2;2462;H;TN,VN	Pass	500k	10.05M	13.593M	10.1M	13.693M
2.4G;11g;20;1;2;2412;L;TN,VN	Pass	500k	15.325M	16.417M	12.275M	16.392M
2.4G;11g;20;1;2;2437;M;TN,VN	Pass	500k	14.9M	16.392M	14.35M	16.417M
2.4G;11g;20;1;2;2462;H;TN,VN	Pass	500k	15.3M	16.417M	12.525M	16.367M
2.4G;HT20;20;1,(M0);2;2412;L;TN,VN	Pass	500k	14.95M	17.616M	15.625M	17.616M
2.4G;HT20;20;1,(M0);2;2437;M;TN,VN	Pass	500k	15.075M	17.616M	15.075M	17.616M
2.4G;HT20;20;1,(M0);2;2462;H;TN,VN	Pass	500k	12.275M	17.616M	15.05M	17.591M
2.4G;HT40;40;1,(M0);2;2422;L;TN,VN	Pass	500k	35M	36.032M	34.95M	36.182M
2.4G;HT40;40;1,(M0);2;2437;M;TN,VN	Pass	500k	32.45M	36.032M	35M	36.082M
2.4G;HT40;40;1,(M0);2;2452;H;TN,VN	Pass	500k	35.05M	36.082M	32.55M	35.932M

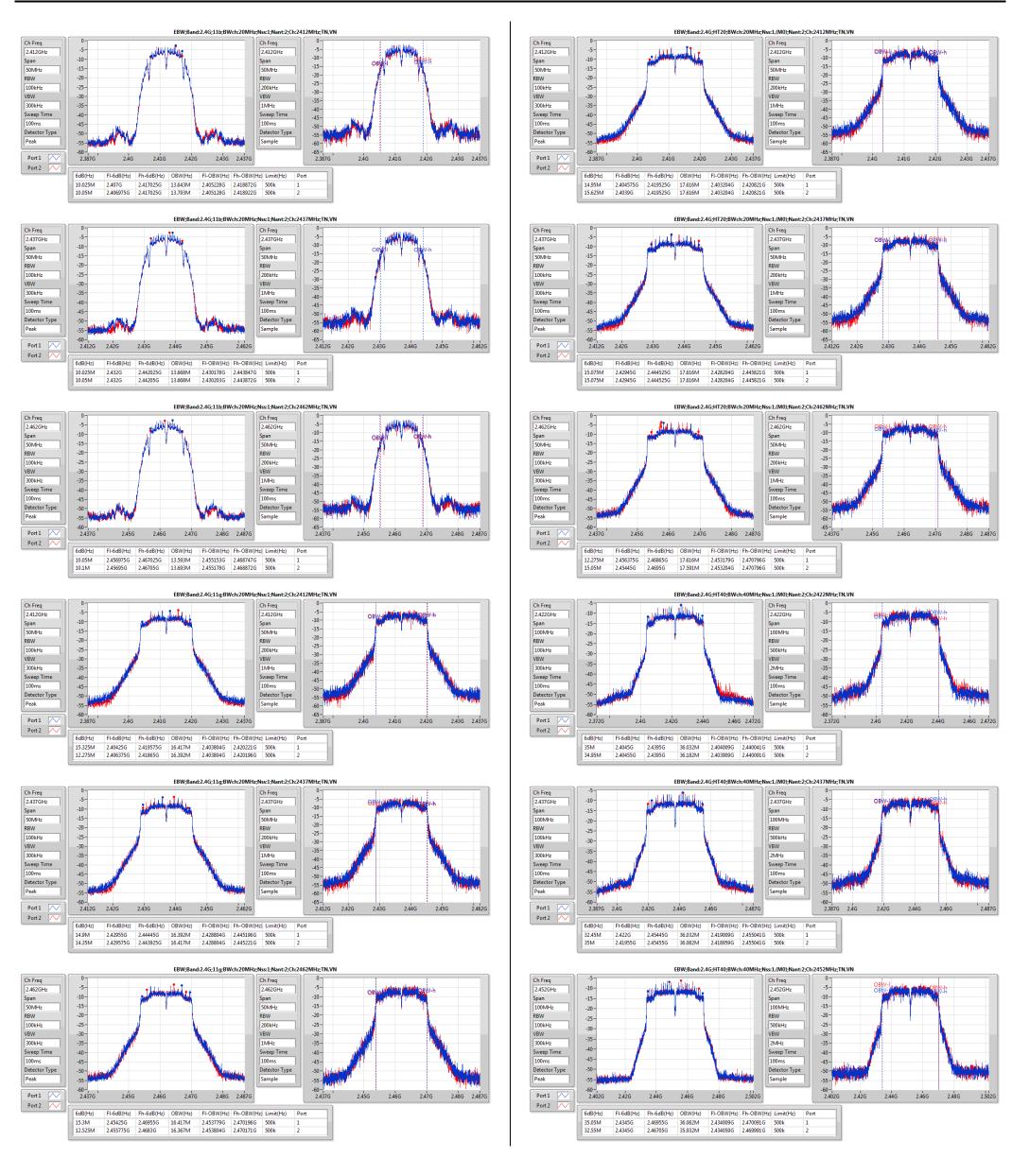
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EBW Result
Appendix A



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PowerPK Result

Appendix B

Summary

Mode	Sum	Sum	EIRP	EIRP	
	(dBm)	(W)	(dBm)	(W)	
2.4G;11b;20;1;2	17.06	0.05082	17.96	0.06252	
2.4G;11g;20;1;2	19.48	0.08872	20.38	0.10914	
2.4G;HT20;20;1,(M0);2	19.45	0.0881	20.35	0.10839	
2.4G;HT40;40;1,(M0);2	19.64	0.09204	20.54	0.11324	

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PowerPK Result

Appendix B

Result

Mode	Result	DG	Sum	Sum Lim.	EIRP	EIRP Lim.	P1	P2
		(dBi)	(dBm)	(dBm)	(dBm)	(dBm)	(dBm)	(dBm)
2.4G;11b;20;1;2;2412;L;TN,VN	Pass	0.90	17.06	30.00	17.96	36.00	14.21	13.88
2.4G;11b;20;1;2;2437;M;TN,VN	Pass	0.90	17.03	30.00	17.93	36.00	14.10	13.94
2.4G;11b;20;1;2;2462;H;TN,VN	Pass	0.90	16.92	30.00	17.82	36.00	13.99	13.83
2.4G;11g;20;1;2;2412;L;TN,VN	Pass	0.90	19.48	30.00	20.38	36.00	16.61	16.33
2.4G;11g;20;1;2;2437;M;TN,VN	Pass	0.90	19.39	30.00	20.29	36.00	16.51	16.24
2.4G;11g;20;1;2;2462;H;TN,VN	Pass	0.90	19.47	30.00	20.37	36.00	16.42	16.49
2.4G;HT20;20;1,(M0);2;2412;L;TN,VN	Pass	0.90	19.38	30.00	20.28	36.00	16.57	16.15
2.4G;HT20;20;1,(M0);2;2437;M;TN,VN	Pass	0.90	19.38	30.00	20.28	36.00	16.52	16.21
2.4G;HT20;20;1,(M0);2;2462;H;TN,VN	Pass	0.90	19.45	30.00	20.35	36.00	16.47	16.40
2.4G;HT40;40;1,(M0);2;2422;L;TN,VN	Pass	0.90	19.64	30.00	20.54	36.00	16.70	16.55
2.4G;HT40;40;1,(M0);2;2437;M;TN,VN	Pass	0.90	19.59	30.00	20.49	36.00	16.65	16.50
2.4G;HT40;40;1,(M0);2;2452;H;TN,VN	Pass	0.90	19.64	30.00	20.54	36.00	16.64	16.61

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PowerAV Result

Appendix B

Summary

Mode	Sum	Sum	EIRP	EIRP
	(dBm)	(W)	(dBm)	(W)
2.4G;11b;20;1;2	13.95	0.02483	14.85	0.03055
2.4G;11g;20;1;2	13.93	0.02472	14.83	0.03041
2.4G;HT20;20;1,(M0);2	13.93	0.02472	14.83	0.03041
2.4G;HT40;40;1,(M0);2	13.89	0.02449	14.79	0.03013

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PowerAV Result

Appendix B

Result

Mode	Result	DG	Sum	Sum Lim.	EIRP	EIRP Lim.	P1	P2
		(dBi)	(dBm)	(dBm)	(dBm)	(dBm)	(dBm)	(dBm)
2.4G;11b;20;1;2;2412;L;TN,VN	Pass	0.90	13.95	30.00	14.85	36.00	11.13	10.75
2.4G;11b;20;1;2;2437;M;TN,VN	Pass	0.90	13.93	30.00	14.83	36.00	11.07	10.77
2.4G;11b;20;1;2;2462;H;TN,VN	Pass	0.90	13.93	30.00	14.83	36.00	10.98	10.85
2.4G;11g;20;1;2;2412;L;TN,VN	Pass	0.90	13.93	30.00	14.83	36.00	11.08	10.75
2.4G;11g;20;1;2;2437;M;TN,VN	Pass	0.90	13.86	30.00	14.76	36.00	10.96	10.74
2.4G;11g;20;1;2;2462;H;TN,VN	Pass	0.90	13.91	30.00	14.81	36.00	10.89	10.91
2.4G;HT20;20;1,(M0);2;2412;L;TN,VN	Pass	0.90	13.86	30.00	14.76	36.00	11.01	10.68
2.4G;HT20;20;1,(M0);2;2437;M;TN,VN	Pass	0.90	13.85	30.00	14.75	36.00	10.96	10.71
2.4G;HT20;20;1,(M0);2;2462;H;TN,VN	Pass	0.90	13.93	30.00	14.83	36.00	10.96	10.88
2.4G;HT40;40;1,(M0);2;2422;L;TN,VN	Pass	0.90	13.88	30.00	14.78	36.00	10.98	10.76
2.4G;HT40;40;1,(M0);2;2437;M;TN,VN	Pass	0.90	13.86	30.00	14.76	36.00	10.95	10.74
2.4G;HT40;40;1,(M0);2;2452;H;TN,VN	Pass	0.90	13.89	30.00	14.79	36.00	10.91	10.84

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PSD Result
Appendix C

Summary

Mode	PD	EIRP.PD
	(dBm/RBW)	(dBm/RBW)
2.4G;11b;20;1;2	-14.59	-11.91
2.4G;11g;20;1;2	-16.90	-14.22
2.4G;HT20;20;1,(M0);2	-16.75	-14.07
2.4G;HT40;40;1,(M0);2	-19.04	-16.36

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PSD Result
Appendix C

Result

Mode	Result	Meas.RBW	Lim.RBW	BWCF	DG	PD	PD.Limit	EIRP.PD	EIRP.PD.Li m	P1	P2
		(Hz)	(Hz)	(dB)	(dBi)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
2.4G;11b;20;1;2;2412;L;TN,VN	Pass	3k	3k	0.00	2.68	-14.59	8.00	-11.91	Inf	-14.87	-18.00
2.4G;11b;20;1;2;2437;M;TN,VN	Pass	3k	3k	0.00	2.68	-15.37	8.00	-12.69	Inf	-17.24	-16.04
2.4G;11b;20;1;2;2462;H;TN,VN	Pass	3k	3k	0.00	2.68	-15.21	8.00	-12.53	Inf	-17.69	-15.81
2.4G;11g;20;1;2;2412;L;TN,VN	Pass	3k	3k	0.00	2.68	-16.90	8.00	-14.22	Inf	-18.56	-19.07
2.4G;11g;20;1;2;2437;M;TN,VN	Pass	3k	3k	0.00	2.68	-17.43	8.00	-14.75	Inf	-19.19	-19.39
2.4G;11g;20;1;2;2462;H;TN,VN	Pass	3k	3k	0.00	2.68	-17.30	8.00	-14.62	Inf	-19.71	-18.90
2.4G;HT20;20;1,(M0);2;2412;L;TN,VN	Pass	3k	3k	0.00	2.68	-16.75	8.00	-14.07	Inf	-19.08	-18.97
2.4G;HT20;20;1,(M0);2;2437;M;TN,VN	Pass	3k	3k	0.00	2.68	-17.48	8.00	-14.80	Inf	-18.64	-18.05
2.4G;HT20;20;1,(M0);2;2462;H;TN,VN	Pass	3k	3k	0.00	2.68	-17.94	8.00	-15.26	Inf	-18.25	-19.63
2.4G;HT40;40;1,(M0);2;2422;L;TN,VN	Pass	3k	3k	0.00	2.68	-19.58	8.00	-16.90	Inf	-22.29	-21.54
2.4G;HT40;40;1,(M0);2;2437;M;TN,VN	Pass	3k	3k	0.00	2.68	-19.08	8.00	-16.40	Inf	-22.54	-21.68
2.4G;HT40;40;1,(M0);2;2452;H;TN,VN	Pass	3k	3k	0.00	2.68	-19.04	8.00	-16.36	Inf	-22.27	-21.20

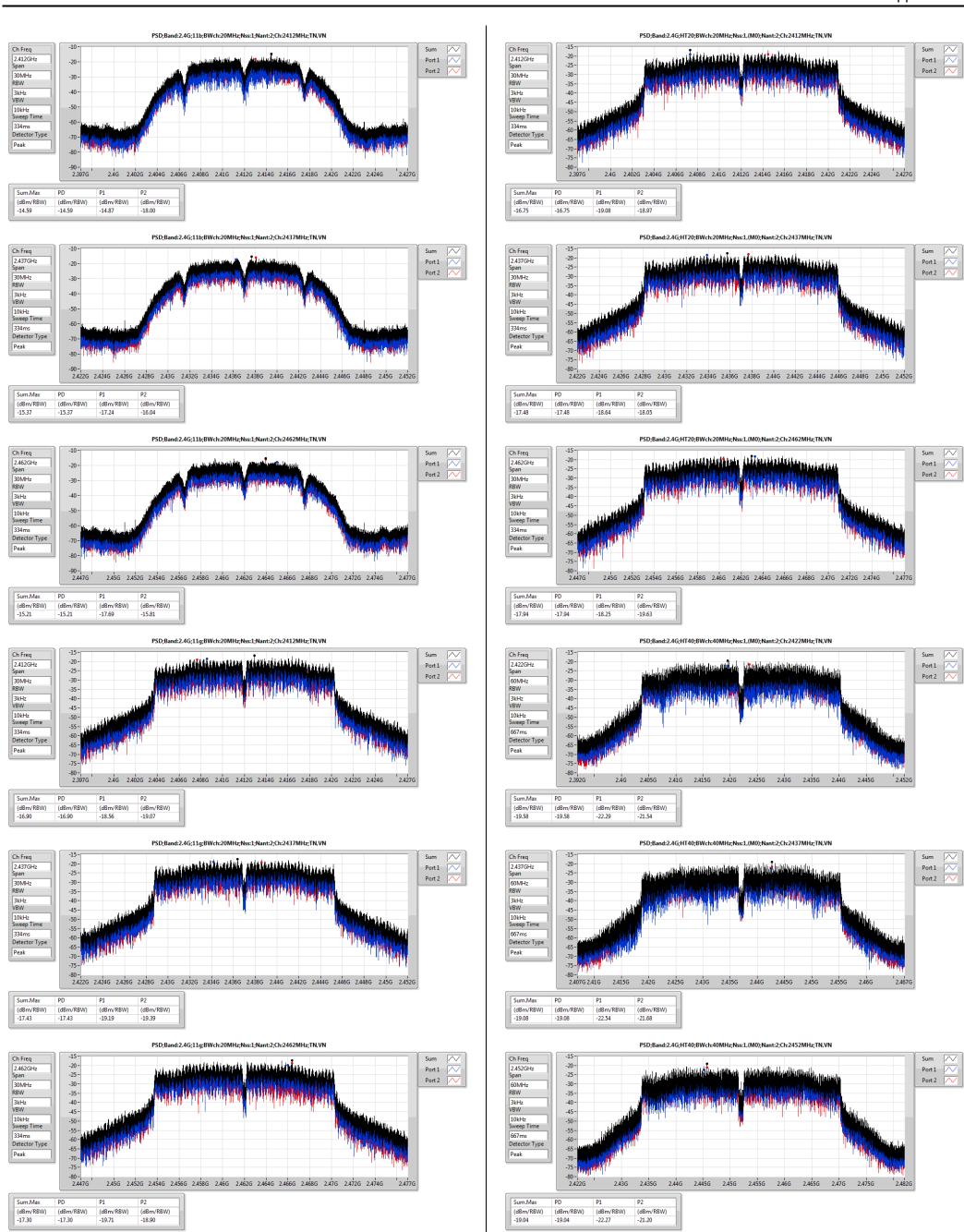
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PSD Result
Appendix C



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Transmitter Radiated Bandedge Emissions

Appendix D

Modulation	N _{TX}	Test Freq. (MHz)	In-band PSD [i] (dBuV/100kHz)	Freq. (MHz)	Out-band PSD [o] (dBuV/100kHz)	[i] – [o] (dB)	Limit (dB)	Pol.
11b	2	2412	107.94	2398.256	56.64	51.30	20	V
11b	2	2462	107.21	2507.800	50.36	56.85	20	٧
11g	2	2412	102.28	2399.936	70.14	32.14	20	٧
11g	2	2462	103.29	2511.800	48.60	54.69	20	٧
HT20	2	2412	101.50	2399.824	72.89	28.61	20	٧
HT20	2	2462	103.90	2529.800	49.71	54.19	20	٧
HT40	2	2422	98.56	2399.892	72.44	26.12	20	٧
HT40	2	2452	98.02	2500.640	49.60	48.42	20	V

Modulation Mode	N _{TX}	Freq. (MHz)	Measure Distance (m)	Freq. (MHz) PK	Level (dBuV/m) PK	Limit (dBuV/m) PK	Freq. (MHz) AV	Level (dBuV/m) AV	Limit (dBuV/m) AV	Pol.
11b	2	2412	3	2386.160	60.64	74	2385.712	52.55	54	V
11b	2	2462	3	2488.000	61.20	74	2488.000	52.89	54	٧
11g	2	2412	3	2385.936	66.43	74	2389.296	52.82	54	V
11g	2	2462	3	2491.000	67.82	74	2483.600	52.46	54	V
HT20	2	2412	3	2389.296	65.35	74	2389.968	52.70	54	V
HT20	2	2462	3	2484.600	66.30	74	2483.600	52.70	54	V
HT40	2	2422	3	2389.992	64.55	74	2389.992	52.75	54	V
HT40	2	2452	3	2492.960	64.97	74	2485.280	52.97	54	٧

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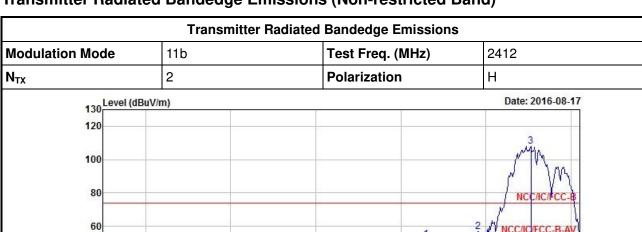


20

2310 2320.

Transmitter Radiated Bandedge Emissions (Non-restricted Band)

2340.



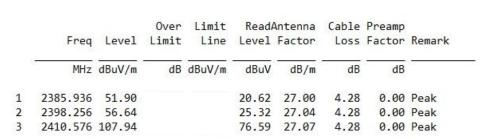
2360.

Frequency (MHz)

2380.

2400.

2422



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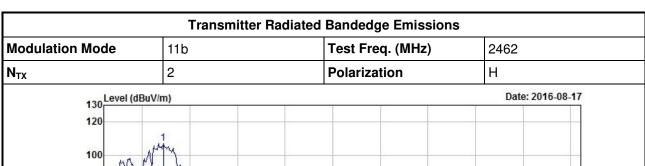
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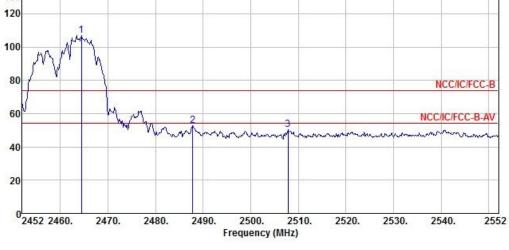
Report Version

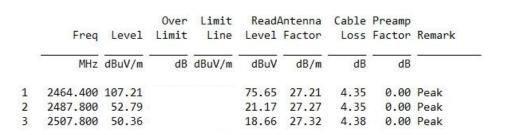
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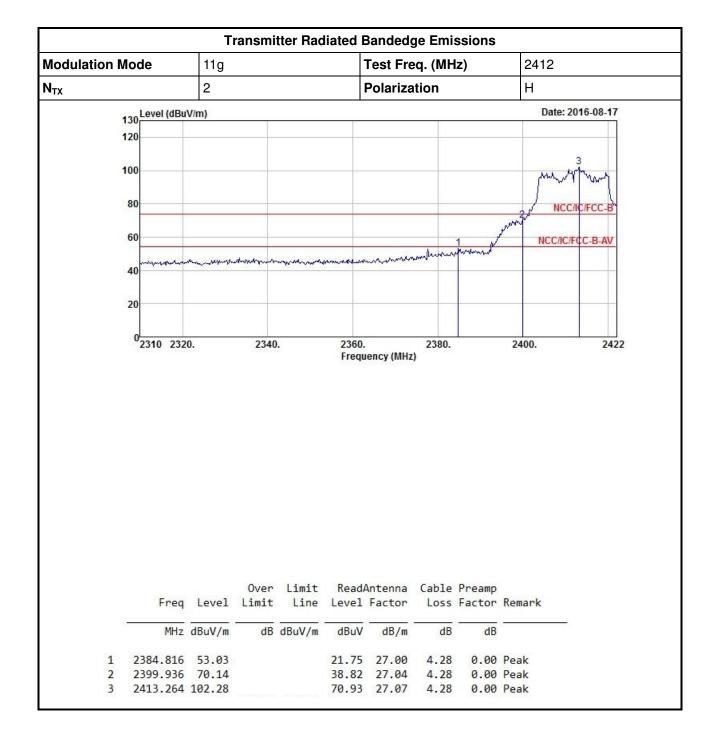


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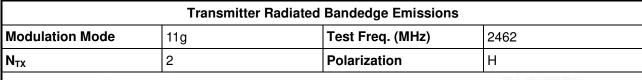
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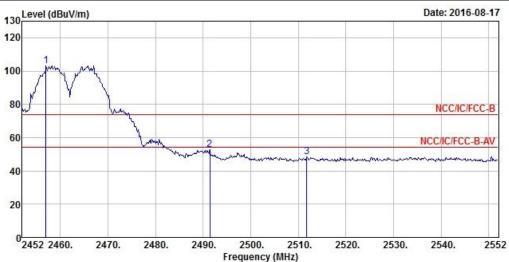
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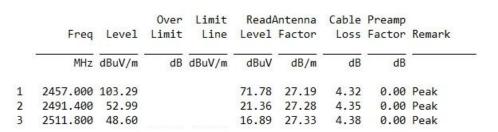
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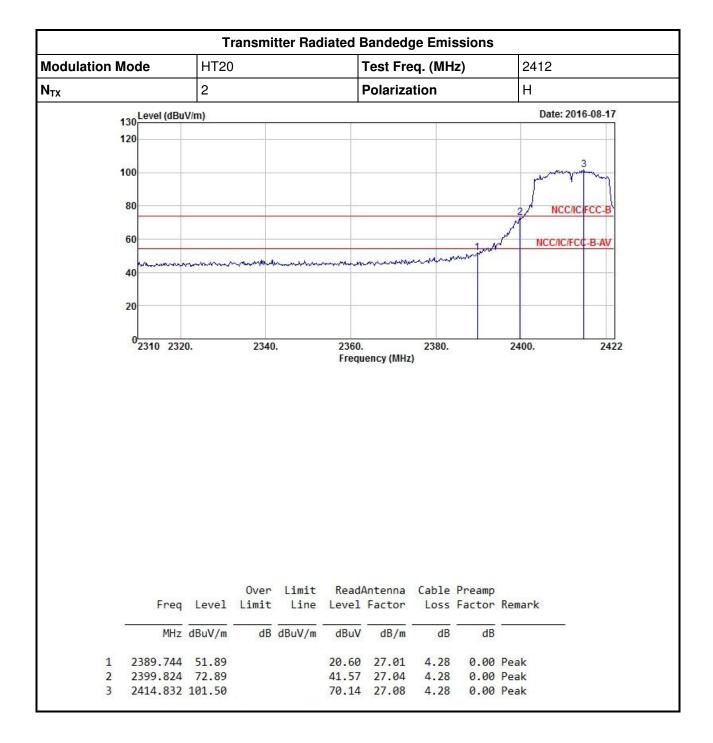
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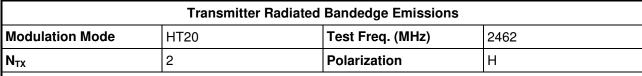


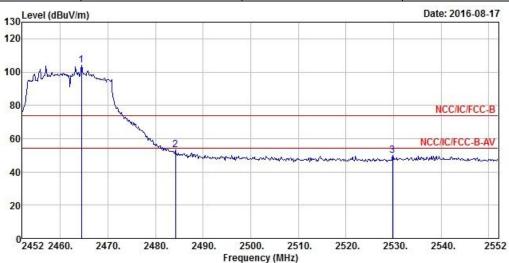


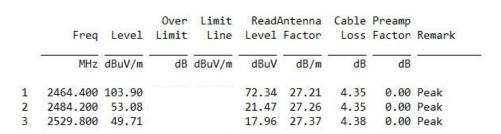
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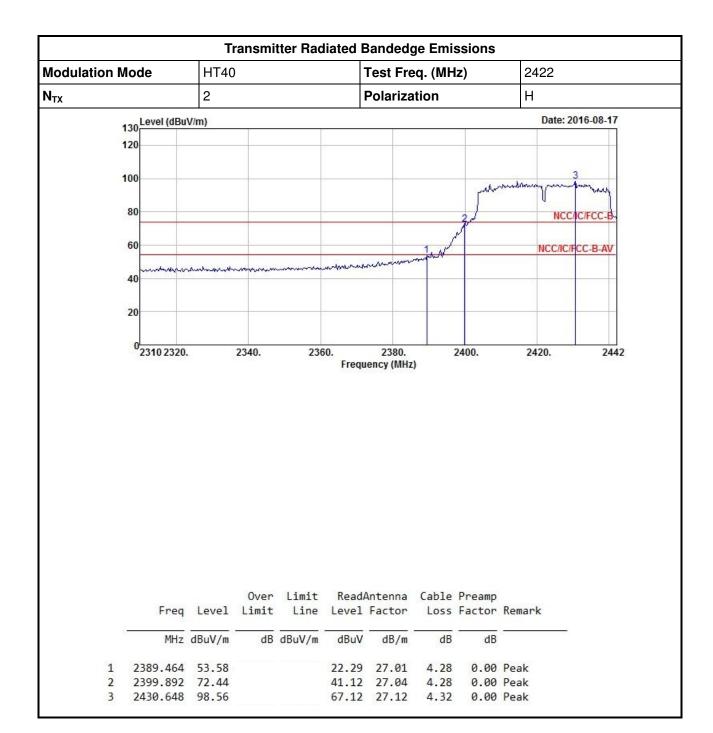


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dB dBuV/m

dBuV

66.50 27.20

25.72 27.26

17.95 27.30

dB/m

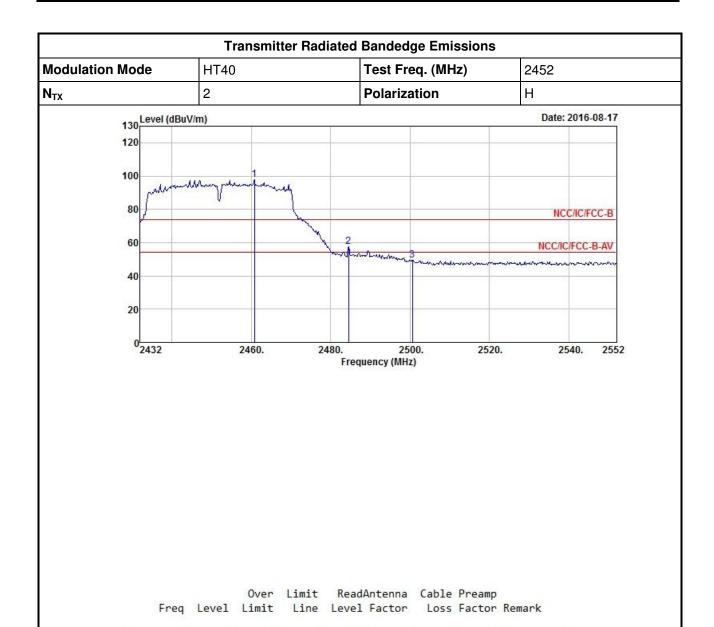
MHz dBuV/m

2460.800 98.02

2484.560 57.33

2500.640 49.60





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dB

0.00 Peak

0.00 Peak

0.00 Peak

dB

4.32

4.35

4.35

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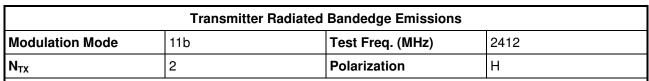
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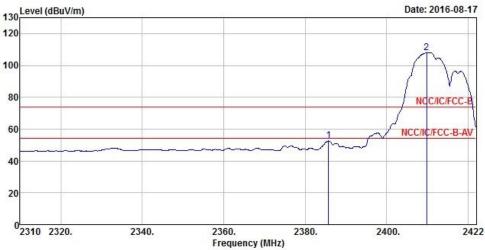
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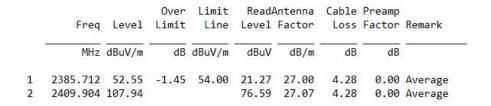
Project No.



Transmitter Radiated Bandedge Emissions (Restricted Band)







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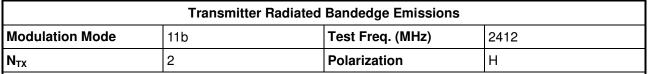
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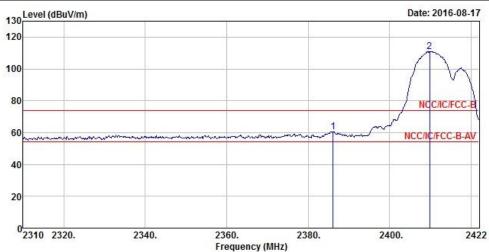
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	Freq	Level				Antenna Factor		The second second	
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	d e A
1	2386.160	60.64	-13.36	74.00	29.36	27.00	4.28	0.00	Peak
2	2409 904	110.77			79.42	27 97	4 28	0.00	Peak

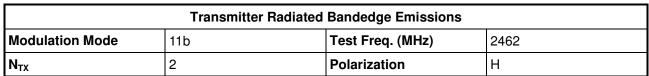
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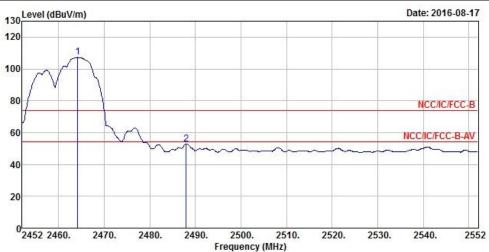
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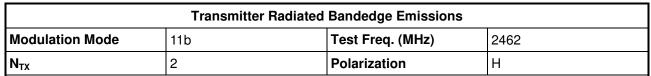


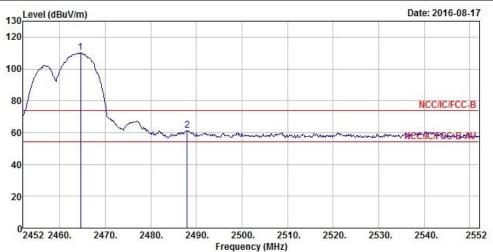
	Freq	Level		Limit Line				The state of the s	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	
1	2464.200	107.22			75.66	27.21	4.35	0.00	Average
2	2488.000	52.89	-1.11	54.00	21.27	27.27	4.35	0.00	Average

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	Freq	Level		Limit Line				The state of the s	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	6
1	2464.600	110.10			78.54	27.21	4.35	0.00	Peak
2	2488.000	61.20	-12.80	74.00	29.58	27.27	4.35	0.00	Peak

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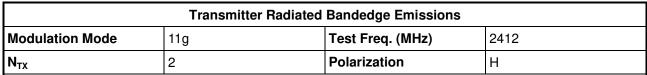
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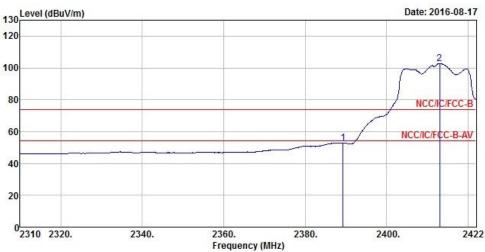
Report Version

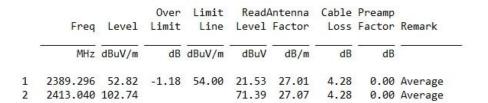
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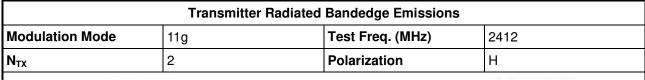


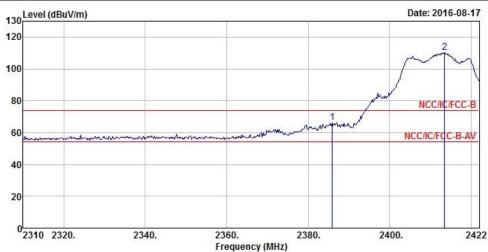
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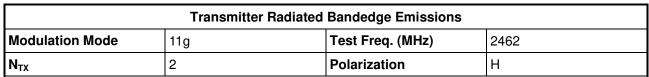


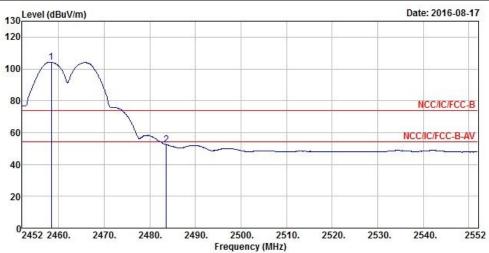
	Freq	Level				Antenna Factor		The second second	
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	*
1	2385.936	66.43	-7.57	74.00	35.15	27.00	4.28	0.00	Peak
2	2413.488	110.32			78.96	27.08	4.28	0.00	Peak

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	Freq	Level		Limit Line					Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	.
1	2458.400	104.16			72.65	27.19	4.32	0.00	Average
2	2483.600	52.46	-1.54	54.00	20.85	27.26	4.35	0.00	Average

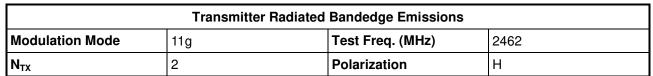
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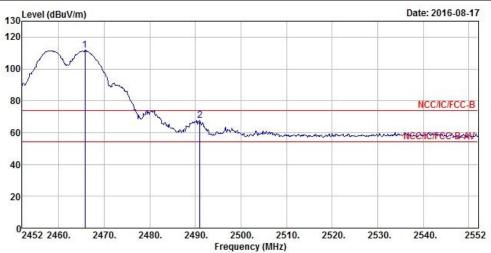
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	Freq	Level		Limit Line				The state of the s	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	0
1	2465.800	111.66			80.10	27.21	4.35	0.00	Peak
2	2491.000	67.82	-6.18	74.00	36.19	27.28	4.35	0.00	Peak

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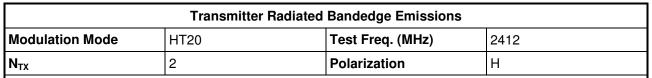
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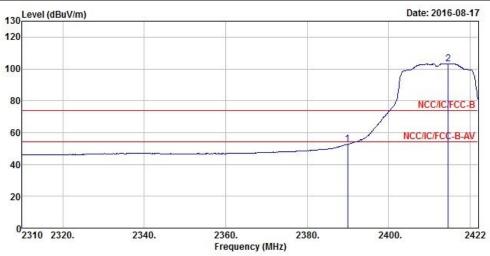
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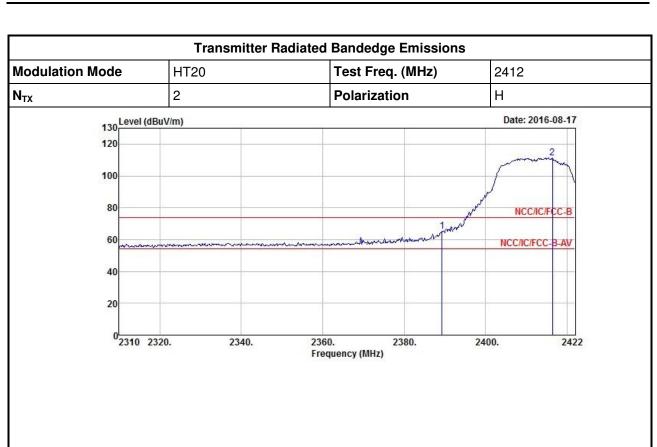


	Freq	Level				Antenna Factor		The second second	
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	
1	2389.968	52.70	-1.30	54.00	21.41	27.01	4.28	0.00	Average
2	2414.608	103.13			71.77	27.08	4.28	0.00	Average

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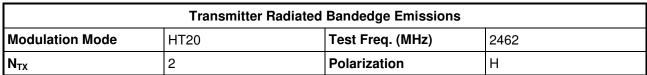


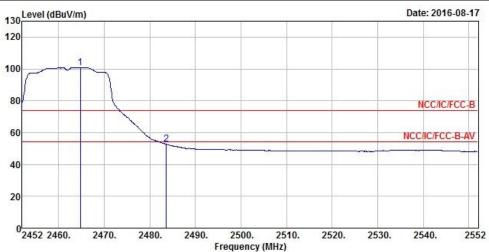
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	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	
1	2389.296	65.35	-8.65	74.00	34.06	27.01	4.28	0.00	Peak
2	2416.400	111.24			79.88	27.08	4.28	0.00	Peak

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	Freq	Level		Limit Line					Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	
1	2464.800	100.74			69.18	27.21	4.35	0.00	Average
2	2483.600	52.70	-1.30	54.00	21.09	27.26	4.35	0.00	Average

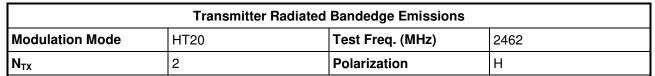
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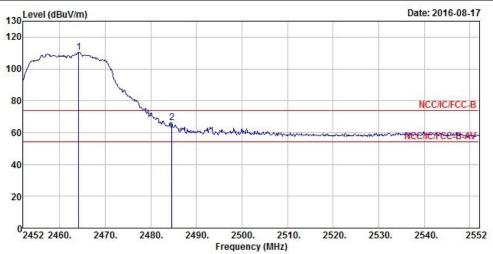
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	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	\$
1	2464.200	110.55			78.99	27.21	4.35	0.00	Peak
2	2484.600	66.30	-7.70	74.00	34.69	27.26	4.35	0.00	Peak

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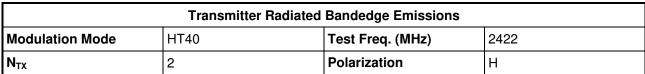
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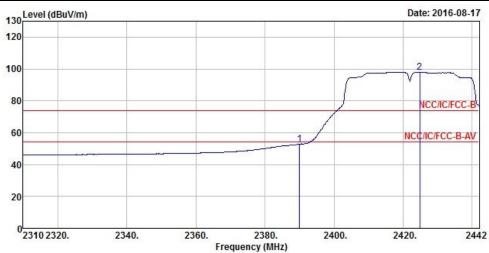
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	Freq	Level				Antenna Factor		The state of the s	
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	it s
1	2389.992	52.75	-1.25	54.00	21.46	27.01	4.28	0.00	Average
2	2424.840	97.85			66.43	27.10	4.32	0.00	Average

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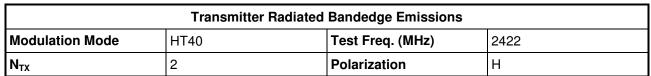
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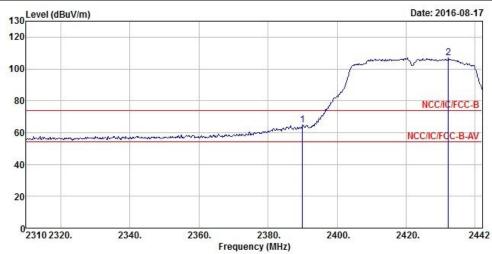
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		Level		Limit Line					Remark
		dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	
1	2389.992	64.55	-9.45	74.00	33.26	27.01	4.28	0.00	Peak
2	2432.232	106.78			75.34	27.12	4.32	0.00	Peak

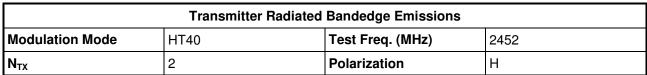
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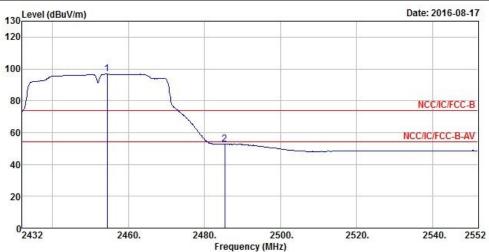
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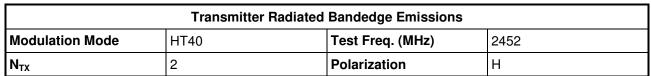


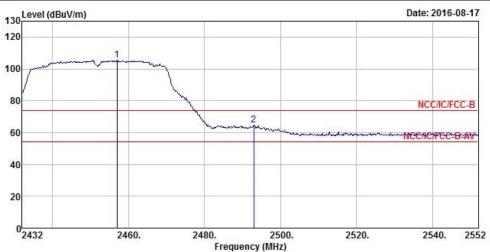
	Freq	Over Freq Level Limit		Limit Line					Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	9 2.
1	2454.320	96.72			65.22	27.18	4.32	0.00	Average
2	2485.280	52.97	-1.03	54.00	21.36	27.26	4.35	0.00	Average

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	Freq	Level					Cable Preamp Loss Factor R		
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	4
1	2456.960	105.53			74.02	27.19	4.32	0.00	Peak
2	2492.960	64.97	-9.03	74.00	33.34	27.28	4.35	0.00	Peak

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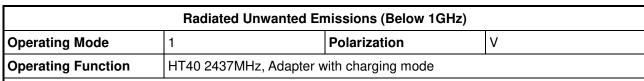
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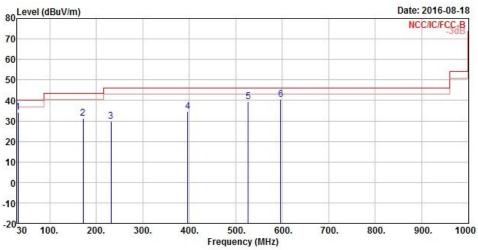
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Transmitter Radiated Unwanted Emissions (Below 1GHz)





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		dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	-
1	31.940	34.13	-5.87	40.00	47.34	23.85	0.33	37.39	Peak
2	171.620	31.30	-12.20	43.50	52.08	15.00	0.73	36.51	Peak
3	231.760	29.91	-16.09	46.00	49.19	16.26	0.85	36.39	Peak
4	396.660	34.51	-11.49	46.00	48.63	21.42	1.11	36.65	Peak
5	526.640	39.25	-6.75	46.00	51.37	23.62	1.32	37.06	QP
6	596.480	40.34	-5.66	46.00	51.64	24.55	1.41	37.26	Peak

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

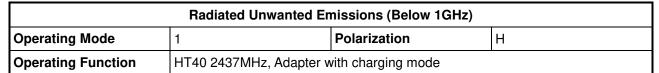
Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

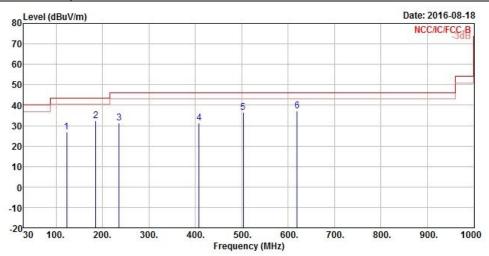
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	Freq	Level		Limit Line					
-	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	-
1	123.120	27.04	-16.46	43.50	46.18	16.96	0.62	36.72	Peak
2	185.200	32.46	-11.04	43.50	53.59	14.55	0.77	36.45	Peak
3	235.640	31.38	-14.62	46.00	50.31	16.61	0.85	36.39	Peak
4	408.300	31.34	-14.66	46.00	45.25	21.65	1.13	36.69	Peak
5	503.360	36.53	-9.47	46.00	48.89	23.34	1.29	36.99	Peak
6	619.760	37.23	-8.77	46.00	48.18	24.92	1.44	37.31	Peak

Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

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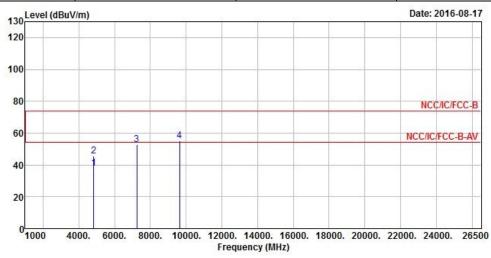
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Transmitter Radiated Unwanted Emissions (Above 1GHz)

Transmitter Radiated Unwanted Emissions (Above 1GHz)								
Modulation Mode 11b Test Freq. (MHz) 2412								
N _{TX}	2	Polarization	V					



	Freq		Limit Line				Preamp Factor Remark		
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	.
1	4824.000	37.70	-16.30	54.00	35.60	31.15	6.11	35.16	Average
2	4824.000	45.70	-28.30	74.00	43.60	31.15	6.11	35.16	Peak
3	7236.000	52.97			44.90	35.91	7.57	35.41	Peak
4	9648.000	55.28			43.74	38.69	8.80	35.95	Peak

- Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
- Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
- Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
- Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.
- Note 5: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level (110.77 dBuV/m).
- Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

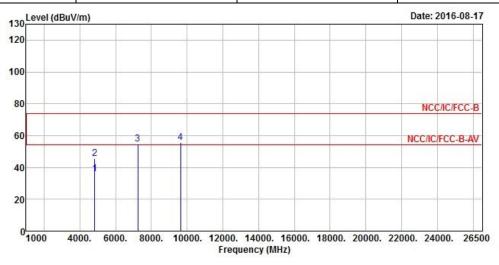
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Transmitter Radiated Unwanted Emissions (Above 1GHz)										
Modulation Mode	Modulation Mode 11b Test Freq. (MHz) 2412									
N _{TX} 2 Polarization H										



	Freq	Freq Level			Limit Line				The second second	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	i N	
1	4824.000	36.20	-17.80	54.00	34.10	31.15	6.11	35.16	Average	
2	4824.000	45.71	-28.29	74.00	43.61	31.15	6.11	35.16	Peak	
3	7236.000	54.57			46.50	35.91	7.57	35.41	Peak	
4	9648.000	55.43			43.89	38.69	8.80	35.95	Peak	

Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Note 5: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level (110.77dBuV/m).

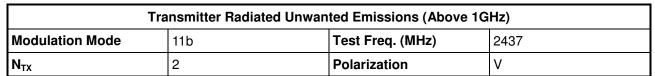
Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

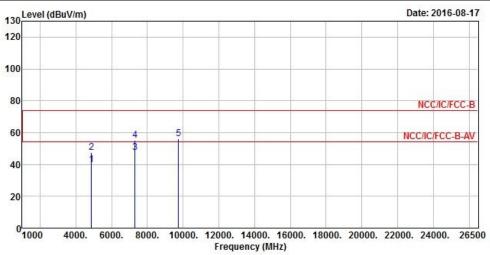
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	Freq	Level		Limit Line				The state of the s	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	
1	4874.000	39.61	-14.39	54.00	37.42	31.22	6.13	35.16	Average
2	4874.000	47.32	-26.68	74.00	45.13	31.22	6.13	35.16	Peak
3	7311.000	47.65	-6.35	54.00	39.36	36.11	7.60	35.42	Average
4	7311.000	55.08	-18.92	74.00	46.79	36.11	7.60	35.42	Peak
5	9748.000	55.99			44.30	38.75	8.89	35.95	Peak

Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

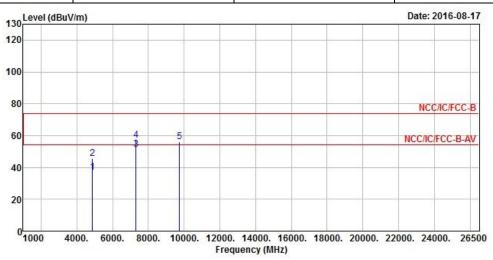
Note 5: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level (110.01 dBuV/m).

Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

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Transmitter Radiated Unwanted Emissions (Above 1GHz)								
Modulation Mode11bTest Freq. (MHz)2437								
N _{TX}	2	Polarization	Н					



		Freq	Level	Over Limit	Limit Line		Antenna Factor		The second second	Remark
	-	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	3 1
1		4874.000 4874.000	(E) D(B) B) D(B)		54.00		31.22		35.16 35.16	Average
=	_	7311.000	12 2 2 2 2 2 2		54.00	100000000000000000000000000000000000000	36.11	10/01/01		Average
2		7311.000 9748.000	57.07 55.91	-16.93	74.00		36.11 38.75		35.42 35.95	

Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Note 5: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level (110.01 dBuV/m).

Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

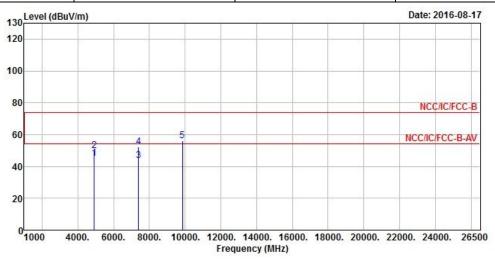
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Transmitter Radiated Unwanted Emissions (Above 1GHz)								
Modulation Mode 11b Test Freq. (MHz) 2462								
N_{TX}	2	Polarization	V					



	Freq	Level		Limit Line				The second second	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	
1	4924.000	45.08	-8.92	54.00	42.77	31.29	6.17	35.15	Average
2	4924.000	50.02	-23.98	74.00	47.71	31.29	6.17	35.15	Peak
3	7386.000	43.75	-10.25	54.00	35.25	36.30	7.63	35.43	Average
4	7386.000	52.52	-21.48	74.00	44.02	36.30	7.63	35.43	Peak
5	9848.000	55.91			44.03	38.81	9.03	35.96	Peak

Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

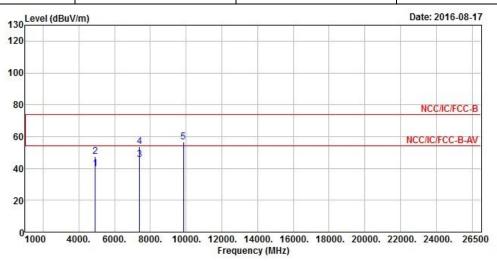
Note 5: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level (110.10 dBuV/m).

Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

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Transmitter Radiated Unwanted Emissions (Above 1GHz)								
Modulation Mode 11b Test Freq. (MHz) 2462								
N _{TX}	2	Polarization	Н					



	Freq	Level		Limit Line				The second second	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	
1	4924.000	39.87	-14.13	54.00	37.56	31.29	6.17	35.15	Average
2	4924.000	47.30	-26.70	74.00	44.99	31.29	6.17	35.15	Peak
3	7386.000	45.73	-8.27	54.00	37.23	36.30	7.63	35.43	Average
4	7386.000	53.90	-20.10	74.00	45.40	36.30	7.63	35.43	Peak
5	9848.000	56.75			44.87	38.81	9.03	35.96	Peak

Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

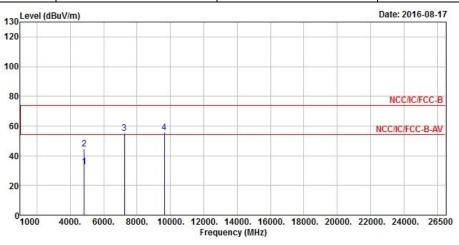
Note 5: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level (110.10dBuV/m).

Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

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Transmitter Radiated Unwanted Emissions (Above 1GHz)								
Modulation Mode	Modulation Mode11gTest Freq. (MHz)2412							
N _{TX}	2	Polarization	V					



	Freq	Level		Limit Line				A STATE OF THE PARTY OF THE PAR	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	
1	4824.000	32.65	-21.35	54.00	30.55	31.15	6.11	35.16	Average
2	4824.000	44.46	-29.54	74.00	42.36	31.15	6.11	35.16	Peak
3	7236.000	54.94			46.87	35.91	7.57	35.41	Peak
4	9648.000	55.60			44.06	38.69	8.80	35.95	Peak

Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Note 5: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level (110.32dBuV/m).

Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

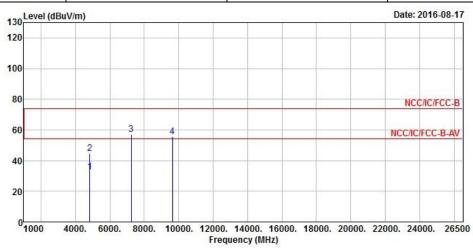
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Transmitter Radiated Unwanted Emissions (Above 1GHz)							
Modulation Mode 11g Test Freq. (MHz) 2412							
N_{TX}	2	Polarization	Н				



	Freq	Level		Limit Line				The state of the s	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	-
1	4824.000	32.62	-21.38	54.00	30.52	31.15	6.11	35.16	Average
2	4824.000	44.49	-29.51	74.00	42.39	31.15	6.11	35.16	Peak
3	7236.000	57.31			49.24	35.91	7.57	35.41	Peak
4	9648.000	55.55			44.01	38.69	8.80	35.95	Peak

Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition

Note 5: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level (110.32 dBuV/m).

Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

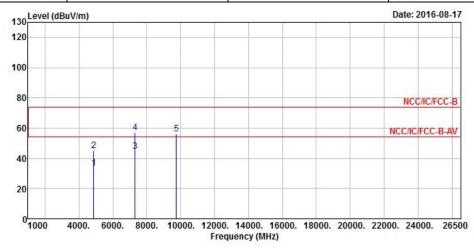
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Transmitter Radiated Unwanted Emissions (Above 1GHz)							
Modulation Mode11gTest Freq. (MHz)2437							
N_{TX}	2	Polarization	V				



	Freq	Level				Antenna Factor			Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	()
1	4874.000	33.49	-20.51	54.00	31.30	31.22	6.13	35.16	Average
2	4874.000	45.17	-28.83	74.00	42.98	31.22	6.13	35.16	Peak
3	7311.000	44.80	-9.20	54.00	36.51	36.11	7.60	35.42	Average
4	7311.000	56.97	-17.03	74.00	48.68	36.11	7.60	35.42	Peak
5	9748.000	56.36			44.67	38.75	8.89	35.95	Peak

Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Note 5: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level (114.53 dBuV/m).

Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

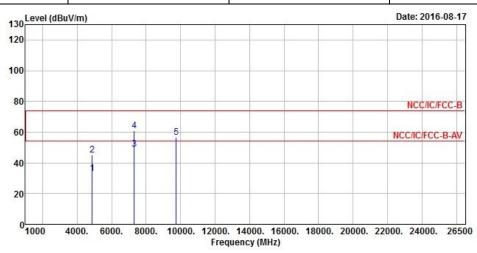
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Transmitter Radiated Unwanted Emissions (Above 1GHz)							
Modulation Mode	11g	Test Freq. (MHz)	2437				
N _{TX} 2 Polarization H							



Freq	Level		Limit Line				The state of the s	Remark	
MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		-
4874.000	33.31	-20.69	54.00	31.12	31.22	6.13	35.16	Average	
4874.000	45.32	-28.68	74.00	43.13	31.22	6.13	35.16	Peak	
7311.000	48.77	-5.23	54.00	40.48	36.11	7.60	35.42	Average	
7311.000	61.00	-13.00	74.00	52.71	36.11	7.60	35.42	Peak	
9748.000	56.52			44.83	38.75	8.89	35.95	Peak	
25.000	20.32				20.72	0.00			Cuit

Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Note 5: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level (114.53 dBuV/m).

Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

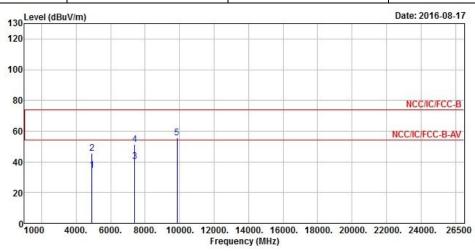
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Transmitter Radiated Unwanted Emissions (Above 1GHz)								
Modulation Mode	Modulation Mode 11g Test Freq. (MHz) 2462							
N _{TX}	N _{TX} 2 Polarization V							



	Freq	Level		Limit Line					Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	
1	4924.000	34.53	-19.47	54.00	32.22	31.29	6.17	35.15	Average
2	4924.000	45.57	-28.43	74.00	43.26	31.29	6.17	35.15	Peak
3	7386.000	40.42	-13.58	54.00	31.92	36.30	7.63	35.43	Average
4	7386.000	51.53	-22.47	74.00	43.03	36.30	7.63	35.43	Peak
5	9848.000	55.77			43.89	38.81	9.03	35.96	Peak

Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

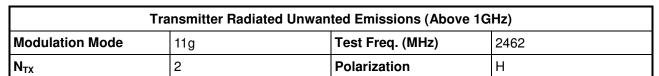
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

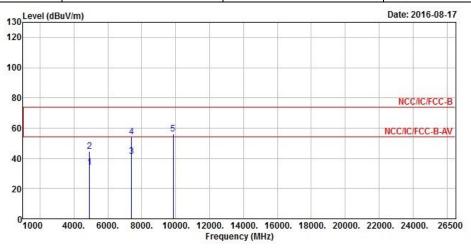
Note 5: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level (111.16 dBuV/m).

Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

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	Freq	Level		Limit Line				The state of the s	
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	
1	4924.000	34.06	-19.94	54.00	31.75	31.29	6.17	35.15	Average
2	4924.000	44.84	-29.16	74.00	42.53	31.29	6.17	35.15	Peak
3	7386.000	41.38	-12.62	54.00	32.88	36.30	7.63	35.43	Average
4	7386.000	54.15	-19.85	74.00	45.65	36.30	7.63	35.43	Peak
5	9848,000	56.07			44.19	38.81	9.03	35.96	Peak

Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

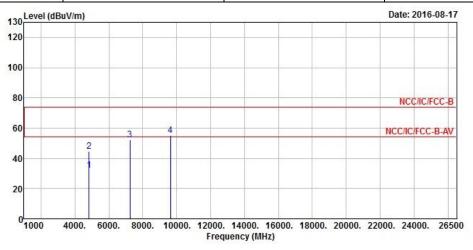
Note 5: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level ((111.16 dBuV/m).

Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

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Transmitter Radiated Unwanted Emissions (Above 1GHz)							
Modulation Mode HT20 Test Freq. (MHz) 2412							
N _{TX}	2	Polarization	V				



	Freq	Freq Level	Freq				Antenna Factor		The state of the s	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		
1	4824.000	32.22	-21.78	54.00	30.12	31.15	6.11	35.16	Average	
2	4824.000	44.54	-29.46	74.00	42.44	31.15	6.11	35.16	Peak	
3	7236.000	52.29			44.22	35.91	7.57	35.41	Peak	
4	9648.000	55.35			43.81	38.69	8.80	35.95	Peak	

Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Note 5: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level (111.24 dBuV/m).

Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

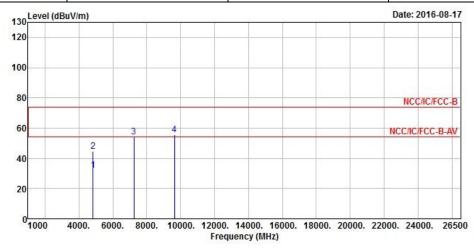
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Transmitter Radiated Unwanted Emissions (Above 1GHz)						
Modulation Mode	HT20	Test Freq. (MHz)	2412			
N _{TX}	2	Polarization	Н			



	Freq	Level		Limit Line				The state of the s	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	
1	4824.000	32.22	-21.78	54.00	30.12	31.15	6.11	35.16	Average
2	4824.000	44.69	-29.31	74.00	42.59	31.15	6.11	35.16	Peak
3	7236.000	54.43			46.36	35.91	7.57	35.41	Peak
4	9648.000	55.54			44.00	38.69	8.80	35.95	Peak

Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Note 5: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level (111.24 dBuV/m).

Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

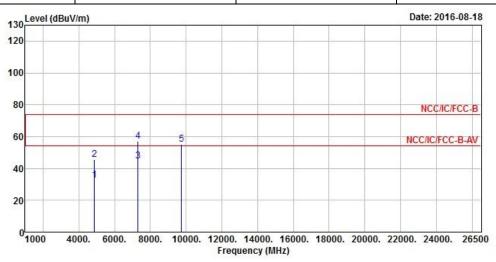
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Tra	nsmitter Radiated Unwan	ted Emissions (Above 1G	Hz)
Modulation Mode	HT20	Test Freq. (MHz)	2437
N _{TX}	2	Polarization	V



	Freq	Level		Limit Line				The state of the s	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	
1	4874.000	32.77	-21.23	54.00	30.58	31.22	6.13	35.16	Average
2	4874.000	45.66	-28.34	74.00	43.47	31.22	6.13	35.16	Peak
3	7311.000	44.41	-9.59	54.00	36.12	36.11	7.60	35.42	Average
4	7311.000	57.14	-16.86	74.00	48.85	36.11	7.60	35.42	Peak
5	9748.000	55.28			43.59	38.75	8.89	35.95	Peak

Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

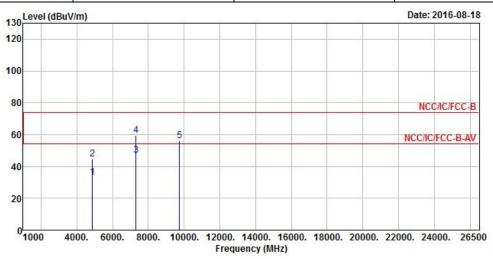
Note 5: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level (113.58 dBuV/m).

Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

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Transmitter Radiated Unwanted Emissions (Above 1GHz)						
Modulation Mode	HT20	Test Freq. (MHz)	2437			
N_{TX}	2	Polarization	Н			



able Preamp Loss Factor Re	mark
dB dB	
5.13 35.16 Av	erage
5.13 35.16 Pe	ak
7.60 35.42 Av	erage
7.60 35.42 Pe	ak
3.89 35.95 Pe	ak
7	35.16 Av .13 35.16 Pe .60 35.42 Av .60 35.42 Pe

Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

2 3 4

Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Note 5: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level (113.58 dBuV/m).

Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

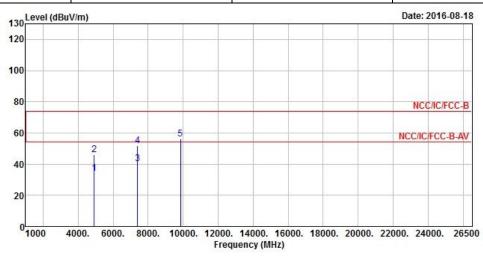
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Tra	nsmitter Radiated Unwan	ted Emissions (Above 1G	Hz)
Modulation Mode	HT20	Test Freq. (MHz)	2462
N _{TX}	2	Polarization	V



	Freq	Level				Antenna Factor		The state of the s	
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	±.
1	4924.000	34.12	-19.88	54.00	31.81	31.29	6.17	35.15	Average
2	4924.000	45.89	-28.11	74.00	43.58	31.29	6.17	35.15	Peak
3	7386.000	40.06	-13.94	54.00	31.56	36.30	7.63	35.43	Average
4	7386.000	51.66	-22.34	74.00	43.16	36.30	7.63	35.43	Peak
5	9848.000	56.05			44.17	38.81	9.03	35.96	Peak

- Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
- Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
- Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
- Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.
- Note 5: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level (110.55 dBuV/m).
- Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

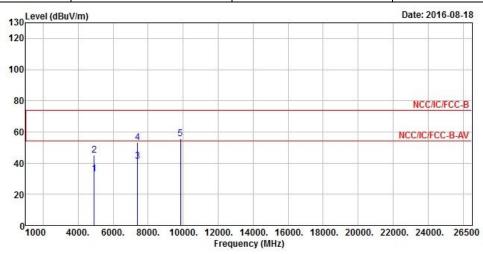
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Transmitter Radiated Unwanted Emissions (Above 1GHz)							
Modulation Mode	HT20	Test Freq. (MHz)	2462				
N_{TX}	2	Polarization	Н				



	Freq	Level				Antenna Factor			
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	±.
1	4924.000	33.13	-20.87	54.00	30.82	31.29	6.17	35.15	Average
2	4924.000	45.26	-28.74	74.00	42.95	31.29	6.17	35.15	Peak
3	7386.000	41.17	-12.83	54.00	32.67	36.30	7.63	35.43	Average
4	7386.000	53.18	-20.82	74.00	44.68	36.30	7.63	35.43	Peak
5	9848.000	55.81			43.93	38.81	9.03	35.96	Peak

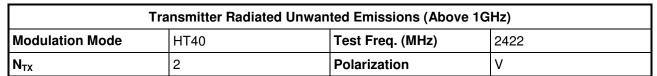
- Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
- Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
- Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
- Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.
- Note 5: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level (110.55 dBuV/m).
- Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

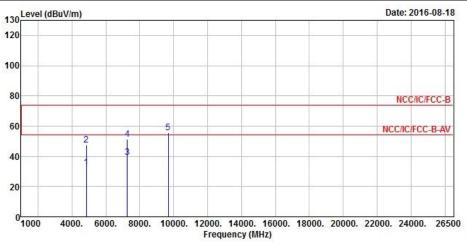
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	Freq	Freq	Level		Limit Line				The state of the s	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		
1	4844.000	32.53	-21.47	54.00	30.38	31.18	6.13	35.16	Average	
2	4844.000	47.39	-26.61	74.00	45.24	31.18	6.13	35.16	Peak	
3	7266.000	39.50	-14.50	54.00	31.34	35.99	7.59	35.42	Average	
4	7266.000	51.30	-22.70	74.00	43.14	35.99	7.59	35.42	Peak	
5	9688.000	55.51			43.91	38.71	8.84	35.95	Peak	

Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Note 5: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level (106.78dBuV/m).

Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

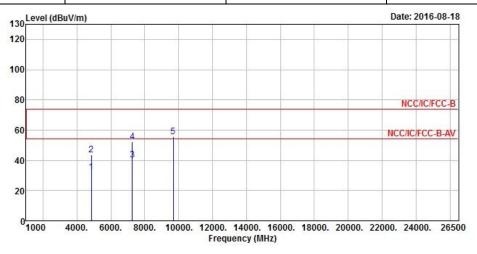
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Transmitter Radiated Unwanted Emissions (Above 1GHz)							
Modulation Mode	HT40	Test Freq. (MHz)	2422				
N_{TX}	2	Polarization	Н				



	Freq	Level		Limit Line				The state of the s	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	
1	4844.000	31.97	-22.03	54.00	29.82	31.18	6.13	35.16	Average
2	4844.000	43.48	-30.52	74.00	41.33	31.18	6.13	35.16	Peak
3	7266.000	40.33	-13.67	54.00	32.17	35.99	7.59	35.42	Average
4	7266.000	52.33	-21.67	74.00	44.17	35.99	7.59	35.42	Peak
5	9688,000	55.66			44.06	38.71	8.84	35.95	Peak

Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

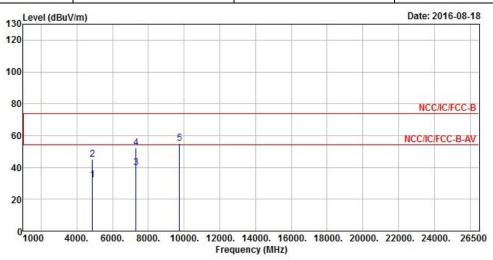
Note 5: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level (106.78 dBuV/m).

Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

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Transmitter Radiated Unwanted Emissions (Above 1GHz)							
Modulation Mode	HT40	Test Freq. (MHz)	2437				
N _{TX}	2 Polarization		V				



	Freq	Level		Limit Line				The state of the s	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	
1	4874.000	32.37	-21.63	54.00	30.18	31.22	6.13	35.16	Average
2	4874.000	45.03	-28.97	74.00	42.84	31.22	6.13	35.16	Peak
3	7311.000	39.66	-14.34	54.00	31.37	36.11	7.60	35.42	Average
4	7311.000	52.14	-21.86	74.00	43.85	36.11	7.60	35.42	Peak
5	9748.000	55.40			43.71	38.75	8.89	35.95	Peak

Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

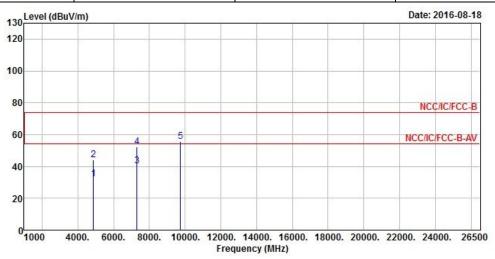
Note 5: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level (107.43dBuV/m).

Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

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Transmitter Radiated Unwanted Emissions (Above 1GHz)							
Modulation Mode	HT40	Test Freq. (MHz)	2437				
N_{TX}	2	Polarization	Н				



	Freq	Level		Limit Line				The second second	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	
1	4874.000	32.17	-21.83	54.00	29.98	31.22	6.13	35.16	Average
2	4874.000	44.04	-29.96	74.00	41.85	31.22	6.13	35.16	Peak
3	7311.000	40.46	-13.54	54.00	32.17	36.11	7.60	35.42	Average
4	7311.000	52.18	-21.82	74.00	43.89	36.11	7.60	35.42	Peak
5	9748.000	55.71			44.02	38.75	8.89	35.95	Peak

Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Note 5: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level (107.43 dBuV/m).

Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

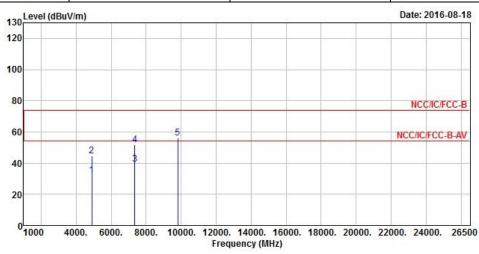
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Transmitter Radiated Unwanted Emissions (Above 1GHz)							
Modulation Mode	HT40	Test Freq. (MHz)	2452				
N _{TX}	2	Polarization	V				



	Freq	Level				Antenna Factor			Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	·
1	4904.000	32.29	-21.71	54.00	30.02	31.27	6.15	35.15	Average
2	4904.000	44.63	-29.37	74.00	42.36	31.27	6.15	35.15	Peak
3	7356.000	39.25	-14.75	54.00	30.84	36.23	7.61	35.43	Average
4	7356.000	51.68	-22.32	74.00	43.27	36.23	7.61	35.43	Peak
5	9808.000	55.91			44.10	38.78	8.99	35.96	Peak

- Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
- Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
- Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
- Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.
- Note 5: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level (105.53 dBuV/m).
- Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

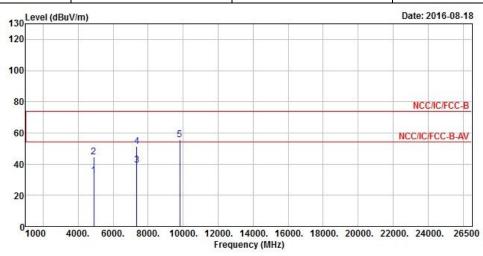
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Transmitter Radiated Unwanted Emissions (Above 1GHz)							
Modulation Mode	HT40	Test Freq. (MHz)	2452				
N _{TX}	2	Polarization	Н				



	Freq	Level		Limit Line					
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	3.
1	4904.000	32.42	-21.58	54.00	30.15	31.27	6.15	35.15	Average
2	4904.000	44.45	-29.55	74.00	42.18	31.27	6.15	35.15	Peak
3	7356.000	39.37	-14.63	54.00	30.96	36.23	7.61	35.43	Average
4	7356.000	51.24	-22.76	74.00	42.83	36.23	7.61	35.43	Peak
5	9808.000	55.76			43.95	38.78	8.99	35.96	Peak

- Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
- Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
- Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
- Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.
- Note 5: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level (105.53 dBuV/m).
- Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

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