



CFR 47 FCC PART 15 SUBPART C ISED RSS-247 ISSUE 2

CERTIFICATION TEST REPORT

For

Street Fighter II Big Blue

MODEL NUMBER: STF-A-01077, STF-A-01246

FCC ID: 2APXHSFBB IC: 24128-SFBB

REPORT NUMBER: 4789938004.2-2

ISSUE DATE: May 28, 2021

Prepared for

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The results reported herein have been performed in accordance with the laboratory's terms of accreditation. This report shall not be reproduced except in full without the written approval of the Laboratory. The results in this report apply to the test sample(s) mentioned above at the time of the testing period only and are not to be used to indicate applicability to other similar products.



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Revision History

Rev.	Issue Date	Revisions	Revised By
V0	5/28/2021	Initial Issue	



Summary of Test Results Clause FCC/ISED Rules **Test Results Test Items** FCC Part 15.247 (a) (2) 6dB Bandwidth and 99% RSS-247 Clause 5.2 (a) 1 Pass Occupied Bandwidth ISED RSS-Gen Clause 6.7 FCC Part 15.247 (b) (3) 2 Conducted Output Power Pass RSS-247 Clause 5.4 (d) FCC Part 15.247 (e) 3 Power Spectral Density Pass RSS-247 Clause 5.2 (b) Conducted Bandedge and FCC Part 15.247 (d) 4 Pass Spurious Emission RSS-247 Clause 5.5 FCC Part 15.247 (d) FCC Part 15.209 Radiated Bandedge and 5 FCC Part 15.205 Pass Spurious Emission RSS-247 Clause 5.5 **RSS-GEN Clause 8.9** FCC Part 15.207 Conducted Emission Test for AC 6 Pass Power Port **RSS-GEN Clause 8.8** FCC Part 15.203 7 Antenna Requirement Pass RSS-GEN Clause 6.8

Note:

^{1.} This test report is only published to and used by the applicant, and it is not for evidence purpose in China.

^{2.} The measurement result for the sample received is <Pass> according to < CFR 47 FCC PART 15 SUBPART C >< ISED RSS-247 > when <Accuracy Method> decision rule is applied.



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1. ATTESTATION OF TEST RESULTS

FCC

Applicant Information

Company Name: WF Tastemakers Trading Limited

Address: Unit 05 and unit 06, 6th Floor, Greenfield Tower Concordia Plaza,

1 Science Museum Road, TST East, Hong Kong

ISED

Applicant Information

Company Name: WF Tastemakers Trading Limited

Address: 980 Avenue of the Americas, 3rd Floor New York NY 10018

American Samoa

FCC

Manufacturer Information

Company Name: WF Tastemakers Trading Limited

Address: Unit 05 and unit 06, 6th Floor, Greenfield Tower Concordia Plaza,

1 Science Museum Road, TST East, Hong Kong

ISED

Manufacturer Information

Company Name: WF Tastemakers Trading Limited

Address: 980 Avenue of the Americas, 3rd Floor New York NY 10018

American Samoa

EUT Information

EUT Name: Street Fighter II Big Blue

Model: STF-A-01077
Series Model: STF-A-01246
Brand: ARCADE 1 UP
Sample Received Date: May 14, 2021

Sample Status: Normal Sample ID: 3905027

APPLICABLE STANDARDS						
STANDARD TEST RESULTS						
CFR 47 FCC PART 15 SUBPART C	PASS					
ISED RSS-247 Issue 2	PASS					
ISED RSS-GEN Issue 5	PASS					



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Shawn Wen

Laboratory Leader

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2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with KDB 558074 D01 15.247 Meas Guidance v05r02, KDB 414788 D01 Radiated Test Site v01r01, CFR 47 FCC Part 2, CFR 47 FCC Part 15, ANSI C63.10-2013, ISED RSS-247 Issue 2 and ISED RSS-GEN Issue 5.

3. FACILITIES AND ACCREDITATION

	A2LA (Certificate No.: 4102.01) UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. has been assessed and proved to be in compliance with A2LA.
	FCC (FCC Designation No.: CN1187)
	UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. Has been recognized to perform compliance testing on equipment subject to the Commission's Delcaration of Conformity (DoC) and Certification rules
	ISED (Company No.: 21320)
Accreditation Certificate	UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. has been registered and fully described in a report filed with ISED.
	Body Identifier (CABID) is CN0046.
	VCCI (Registration No.: G-20019, R-20004, C-20012 and T-20011)
	UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. has been assessed and proved to be in compliance with VCCI, the Membership No. is 3793. Facility Name:
	Chamber D, the VCCI registration No. is G-20019 and R-20004 Shielding Room B, the VCCI registration No. is C-20012 and T-20011

Note 1: All tests measurement facilities use to collect the measurement data are located at Building 10, Innovation Technology Park, Song Shan Lake Hi tech Development Zone, Dongguan, 523808, China

Note 2: The test anechoic chamber in UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch had been calibrated and compared to the open field sites and the test anechoic chamber is shown to be equivalent to or worst case from the open field site.

Note 3: For below 30 MHz, lab had performed measurements at test anechoic chamber and comparing to measurements obtained on an open field site. And these measurements below 30 MHz had been correlated to measurements performed on an OFS.



4. CALIBRATION AND UNCERTAINTY

4.1. MEASURING INSTRUMENT CALIBRATION

The measuring equipment utilized to perform the tests documented in this report has been calibrated in accordance with the manufacturer's recommendations and is traceable to recognize national standards.

4.2. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

Test Item	Uncertainty				
Conduction emission	3.62 dB				
Radiated Emission (Included Fundamental Emission) (9 kHz ~ 30 MHz)	2.2 dB				
Radiated Emission (Included Fundamental Emission) (30 MHz ~ 1 GHz)	4.00 dB				
Radiated Emission	5.78 dB (1 GHz ~ 18 GHz)				
(Included Fundamental Emission) (1 GHz to 26 GHz)	5.23 dB (18 GHz ~ 26 GHz)				
Duty Cycle	±0.028%				
DTS and 99% Occupied Bandwidth	±0.0196%				
Maximum Conducted Output Power	±0.686 dB				
Maximum Power Spectral Density Level	±0.743 dB				
Conducted Band-edge Compliance	±1.328 dB				
Conducted Unwanted Emissions In Non-restricted	±0.746 dB (9 kHz ~ 1 GHz)				
Frequency Bands	±1.328dB (1 GHz ~ 26 GHz)				
Note: This uncertainty represents an expanded uncertainty expressed at approximately the					

Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.



5. EQUIPMENT UNDER TEST

5.1. DESCRIPTION OF EUT

EUT Name	Street Fighter II Big Blue
Model Name	STF-A-01077
Series Model	STF-A-01246
Model differences	STF-A-01077 (New model numbers) have the same technical construction including circuit diagram, PCB Layout, components and component layout, all electrical construction and mechanical construction with STF-A-01246 (original model number). The difference lies only the model name and non metal decoration for the enclosure.
Note	Both models have been considered, only the worst-case model STF-A-01077 test data recorded in this report.
Radio Technology	IEEE802.11b/g/n HT20/HT40
Operation frequency	IEEE 802.11b: 2412MHz—2462MHz IEEE 802.11g: 2412MHz—2462MHz IEEE 802.11n HT20: 2412MHz—2462MHz IEEE 802.11n HT40: 2422MHz—2452MHz
Modulation	IEEE 802.11b: DSSS(CCK) IEEE 802.11g: OFDM (64QAM, 16QAM, QPSK, BPSK) IEEE 802.11n HT20: OFDM (64QAM, 16QAM, QPSK, BPSK) IEEE 802.11n HT40: OFDM (64QAM, 16QAM, QPSK, BPSK)
Rating	AC 120 V, 60 Hz

5.2. CHANNEL LIST

Channel List for 802.11b/g/n (20 MHz)								
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	
1	2412	4	2427	7	2442	10	2457	
2	2417	5	2432	8	2447	11	2462	
3	2422	6	2437	9	2452	1	1	

	Channel List for 802.11n (40 MHz)							
Channel ' ' Channel ' Channel ' ' Channel '						Frequency (MHz)		
3	2422	5	2432	7	2442	9	2452	
4	2427	6	2437	8	2447	1	1	



5.3. MAXIMUM OUTPUT POWER

IEEE Std. 802.11	Frequency (MHz)	Channel Number	Maximum Conducted AVG Output Power (dBm)	Maximum AVG EIRP (dBm)
b	2412 ~ 2462	1-11[11]	11.63	16.47
g	2412 ~ 2462	1-11[11]	10.75	15.59
n HT20	2412 ~ 2462	1-11[11]	10.86	15.70
n HT40	2422 ~ 2452	3-8[7]	10.25	15.09

5.4. TEST CHANNEL CONFIGURATION

Test Mode	Test Channel	Frequency		
WiFi TX(802.11b)	CH 1, CH 6, CH 11/ Low, Middle, High	2412MHz, 2437MHz, 2462MHz		
WiFi TX(802.11g)	CH 1, CH 6, CH 11/ Low, Middle, High	2412MHz, 2437MHz, 2462MHz		
WiFi TX(802.11n HT20)	CH 1, CH 6, CH 11/ Low, Middle, High	2412MHz, 2437MHz, 2462MHz		
WiFi TX(802.11n HT40)	CH 1, CH 6, CH 11/ Low, Middle, High	2422MHz, 2437MHz, 2452MHz		

5.5. THE WORSE CASE POWER SETTING PARAMETER

The Worse Case Power Setting Parameter under 2400 ~ 2483.5MHz Band								
Test Software				RF te	est tool			
NA 1 1 C	Transmit		Test Software setting value					
Modulation Mode	Antenna Number	١	NCB: 20MF	łz	NCB: 40MHz			
Wiode		CH 1	CH 6	CH 11	CH 3	CH 6	CH 9	
802.11b	1	14	14	14				
802.11g	1	13	13	13	/			
802.11n HT20	1	13	13	13				
802.11n HT40	1	/ 12.5 12.5				12.5		

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5.6. THE WORSE CASE CONFIGURATIONS

The EUT was tested in the following configuration(s):

Controlled in test mode using a software application on the EUT supplied by customer. The application was used to enable a continuous transmission and to select the mode, test channels, bandwidth, data rates as required.

Test channels referring to section 5.4.

Maximum power setting referring to section 5.5.

Worst case Data Rates declared by the customer:

802.11b mode: 1 Mbps 802.11b mode: 6 Mbps 802.11n HT20 mode: MCS0 802.11n HT40 mode: MCS0

The measured additional path loss was included in any path loss calculations for all RF cable used during tested.



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5.7. DESCRIPTION OF AVAILABLE ANTENNAS

Antenna	Frequency (MH:	z) Antenna Type	MAX Antenna Gain (dBi)
1	2412-2462	PCB Antenna	4.84

Test Mode Transmit and Receive Mode		Description
IEEE 802.11b	⊠1TX, 1RX	ANT 1 can be used as transmitting/receiving antenna.
IEEE 802.11g	⊠1TX, 1RX	ANT 1 can be used as transmitting/receiving antenna.
IEEE 802.11n HT20	⊠1TX, 1RX	ANT 1 can be used as transmitting/receiving antenna.
IEEE 802.11n HT40	⊠1TX, 1RX	ANT 1 can be used as transmitting/receiving antenna.



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5.8. **DESCRIPTION OF TEST SETUP**

SUPPORT EQUIPMENT

Item	Equipment	Brand Name	Model Name	Remarks
1	Earphone	ELIFE	1	1

I/O CABLES

Cable No	Port	Connector Type	Cable Type	Cable Length(m)	Remarks
1	/	/	/	1	/

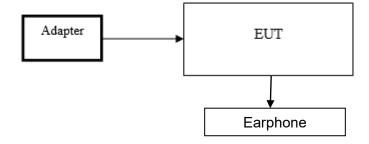
ACCESSORIES

Item	Accessory	Brand Name	Model Name	Description
1	Switching Power Supply	1		Input: AC100~240V,50/60Hz,1.2A Output: 12Vdc,3A

TEST SETUP

The EUT can work in engineering mode with a software inside.

SETUP DIAGRAM FOR TESTS

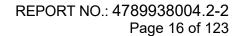




6. MEASURING INSTRUMENT AND SOFTWARE USED

Conducted Emissions						
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due Date	
EMI Test Receiver	R&S	ESR3	101961	Nov. 12, 2020	Nov. 11, 2021	
Two-Line V- Network	R&S	ENV216	101983	Nov. 12, 2020	Nov. 11, 2021	
Artificial Mains Networks	Schwarzbeck	NSLK 8126	8126465	Nov. 12, 2020	Nov. 11, 2021	
	Software					
Description			Manufacturer	Name	Version	
Test Software	for Conducted	Emissions	Farad	EZ-EMC	Ver. UL-3A1	

		Radiated	Emissions		
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due Date
MXE EMI Receiver	KESIGHT	N9038A	MY56400036	Nov. 12, 2020	Nov. 11, 2021
Hybrid Log Periodic Antenna	TDK	HLP-3003C	130960	Aug. 11, 2018	Aug. 10, 2021
Preamplifier	HP	8447D	2944A09099	Nov. 12, 2020	Nov. 11, 2021
EMI Measurement Receiver	R&S	ESR26	101377	Nov. 12, 2020	Nov. 11, 2021
Horn Antenna	TDK	HRN-0118	130939	Sept. 17, 2018	Sept. 17, 2021
Preamplifier	TDK	PA-02-0118	TRS-305- 00067	Nov. 20, 2020	Nov. 19, 2021
Horn Antenna	Schwarzbeck	BBHA9170	#691	Aug. 11, 2018	Aug. 11, 2021
Preamplifier	TDK	PA-02-2	TRS-307- 00003	Nov. 12, 2020	Nov. 11, 2021
Preamplifier	TDK	PA-02-3	TRS-308- 00002	Nov. 12, 2020	Nov. 11, 2021
Loop antenna	Schwarzbeck	1519B	80000	Jan.17, 2019	Jan.17,2022
Preamplifier	TDK	PA-02-001- 3000	TRS-302- 00050	Nov. 12, 2020	Nov. 11, 2021
Preamplifier	Mini-Circuits	ZX60-83LN- S+	SUP01201941	Nov. 20, 2020	Nov. 19, 2021
High Pass Filter	Wi	WHKX10- 2700-3000- 18000-40SS	23	Nov. 12, 2020	Nov. 11, 2021
Band Reject Filter	Wainwright	WRCJV8- 2350-2400- 2483.5- 2533.5-40SS	4	Nov. 12, 2020	Nov. 11, 2021





Software

Description Manufacturer Name Version

Test Software for Radiated Emissions Farad EZ-EMC Ver. UL-3A1

Tonsend RF Test System							
Equipment	Manufacturer	anufacturer Model No.		Serial No.	Last	Cal.	Due. Date
Wideband Radio Communication Tester	R&S	CMW500		155523	Nov.20	0,2020	Nov.19,2021
PXA Signal Analyzer	Keysight	Ν	9030A	MY55410512	Nov.20	0,2020	Nov.19,2021
MXG Vector Signal Generator	Keysight	N5182B		MY56200284	Nov.20	0,2020	Nov.19,2021
MXG Vector Signal Generator	Keysight	N5172B		MY56200301	Nov.20	0,2020	Nov.19,2021
DC power supply	Keysight	sight E3642A		MY55159130	Nov.24	4,2020	Nov.23,2021
Software							
Description	Manufactu	Manufacturer		Name		,	Version
Tonsend SRD Test Syste	m Tonsend	ł	JS1120	-3 RF Test Sys	stem	2.6	3.77.0518

	Other Instruments					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.	
Dual Channel Power Meter	Keysight	N1912A	MY55416024	Nov. 20, 2020	Nov. 19, 2021	
Power Sensor	Keysight	USB Wideband Power Sensor	MY5100022	Nov. 20, 2020	Nov. 19, 2021	



7. ANTENNA PORT TEST RESULTS

7.1. ON TIME AND DUTY CYCLE

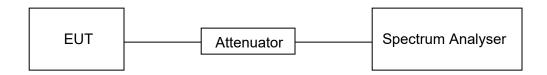
LIMITS

None; for reporting purposes only

PROCEDURE

Refer to ANSI C63.10-2013 clause 11.6 Zero – Span Spectrum Analyzer method.

TEST SETUP



TEST ENVIRONMENT

Temperature	26.4 °C	Relative Humidity	53.1 %
Atmosphere Pressure	101 kPa	Test Voltage	AC120 V,60 Hz

RESULTS

Please refer to appendix G.

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7.2. 6 dB DTS BANDWIDTH AND 99 % OCCUPIED BANDWIDTH

LIMITS

CFR 47 FCC Part15 (15.247) Subpart C ISED RSS-247 ISSUE 2					
Section Test Item Limit Frequency Ran (MHz)					
CFR 47 FCC 15.247(a)(2) ISED RSS-247 5.2 (a)	6 dB Bandwidth	≥ 500 kHz	2400-2483.5		
ISED RSS-Gen Clause 6.7	99 % Occupied Bandwidth	For reporting purposes only.	2400-2483.5		

TEST PROCEDURE

Refer to ANSI C63.10-2013 clause 11.8 for DTS bandwidth and clause 6.9 for Occupied Bandwidth.

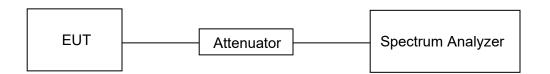
Connect the EUT to the spectrum analyser and use the following settings:

Center Frequency	The center frequency of the channel under test		
Frequency Span	Between 1.5 times and 5.0 times the OBW		
Detector Peak			
RBW	For 6 dB Bandwidth: 100 kHz For 99 % Occupied Bandwidth: 1 % to 5 % of the occupied bandwidth		
VBW	For 6 dB Bandwidth: ≥3 × RBW For 99 % Occupied Bandwidth: ≥3 × RBW		
Trace	Max hold		
Sweep	Auto couple		

- a) Use the 99 % power bandwidth function of the instrument, allow the trace to stabilize and report the measured bandwidth.
- b) Allow the trace to stabilize and measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.



TEST SETUP



TEST ENVIRONMENT

Temperature	26.4 °C	Relative Humidity	53.1 %
Atmosphere Pressure	101 kPa	Test Voltage	AC120 V,60 Hz

RESULTS

Please refer to appendix A & B.

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7.3. CONDUCTED OUTPUT POWER

LIMITS

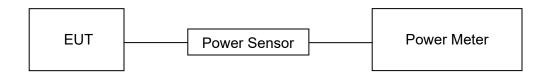
CFR 47 FCC Part15 (15.247) Subpart C ISED RSS-247 ISSUE 2			
Section Test Item Limit Frequency Range (MHz)			
CFR 47 FCC 15.247(b)(3) ISED RSS-247 5.4 (d)	AVG Output Power	1 watt or 30 dBm	2400-2483.5

TEST PROCEDURE

Connect the EUT to a low loss RF cable from the antenna port to the power sensor (video bandwidth is greater than the occupied bandwidth).

Measure peak emission level, the indicated level is the average output power, after any corrections for external attenuators and cables.

TEST SETUP



TEST ENVIRONMENT

Temperature	24.2 °C	Relative Humidity	60.7 %
Atmosphere Pressure	101 kPa	Test Voltage	AC120 V,60 Hz

RESULTS

Please refer to appendix C.



7.4. POWER SPECTRAL DENSITY

LIMITS

CFR 47 FCC Part15 (15.247) Subpart C ISED RSS-247 ISSUE 2			
Section Test Item Limit Frequency Rang (MHz)			Frequency Range (MHz)
CFR 47 FCC §15.247 (e) ISED RSS-247 5.2 (b)	Power Spectral Density	8 dBm/3 kHz	2400-2483.5

TEST PROCEDURE

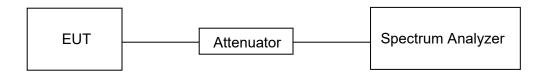
Connect the EUT to the spectrum analyser and use the following settings:

Center Frequency	The center frequency of the channel under test
Detector	RMS
RBW	3 kHz ≤ RBW ≤ 100 kHz
VBW	≥3 × RBW
Span	1.5 x DTS bandwidth
Trace	Max hold
Sweep time	Auto couple

Allow trace to fully stabilize and use the peak marker function to determine the maximum amplitude level within the RBW.

If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

TEST SETUP



TEST ENVIRONMENT

Temperature	24.2 °C	Relative Humidity	60.7 %
Atmosphere Pressure	101 kPa	Test Voltage	AC120 V,60 Hz

RESULTS

Please refer to appendix D.

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7.5. CONDUCTED BANDEDGE AND SPURIOUS EMISSIONS

LIMITS

CFR 47 FCC Part15 (15.247) Subpart C			
Section	Section Test Item Limit		
CFR 47 FCC §15.247 (d)	Conducted Bandedge and Spurious Emissions	at least 30 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power	

TEST PROCEDURE

Refer to ANSI C63.10-2013 clause 11.11 and 11.13.

Connect the EUT to the spectrum analyser and use the following settings for reference level measurement:

Center Frequency	The center frequency of the channel under test	
Detector	Peak	
RBW	100 kHz	
VBW	≥3 × RBW	
Span	1.5 x DTS bandwidth	
Trace	Max hold	
Sweep time	Auto couple.	

Allow trace to fully stabilize and use the peak marker function to determine the maximum PSD level.

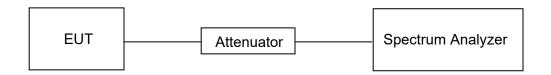
Change the settings for emission level measurement:

1.50au	Set the center frequency and span to encompass frequency range to be measured
Detector	Peak
RBW	100 kHz
VBW	≥3 × RBW
measurement points	≥span/RBW
Trace	Max hold
Sweep time	Auto couple.

Allow trace to fully stabilize and use the peak marker function to determine the maximum PSD level. Ensure that the amplitude of all unwanted emissions outside of the authorized frequency band (excluding restricted frequency bands) is attenuated by at least the minimum requirements specified in 11.11.



TEST SETUP



TEST ENVIRONMENT

Temperature	26.4 °C	Relative Humidity	53.1 %
Atmosphere Pressure	101 kPa	Test Voltage	AC120 V,60 Hz

RESULTS

Please refer to appendix E & F.



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8. RADIATED TEST RESULTS

LIMITS

Please refer to CFR 47 FCC §15.205 and §15.209. Please refer to ISED RSS-GEN Clause 8.9 and Clause 8.10.

Radiation Disturbance Test Limit for FCC (Class B) (9 kHz ~ 1 GHz)

Emissions radiated outside of the specified frequency bands above 30 MHz			
Frequency Range	Field Strength Limit	Field Stren	gth Limit
(MHz)	(uV/m) at 3 m	(dBuV/m)	at 3 m
		Quasi-	Peak
30 - 88	100	40	
88 - 216	150	43.	5
216 - 960	200	46	
Above 960	500	54	
Above 1000	500	Peak	Average
Above 1000	500	74	54

FCC Emissions radiated outside of the specified frequency bands below 30 MHz			
Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)	
0.009-0.490	2400/F(kHz)	300	
0.490-1.705	24000/F(kHz)	30	
1.705-30.0	30	30	

ISED General field strength limits at frequencies below 30 MHz

Table 6 – General field strength limits at frequencies below 30 MHz							
Frequency Magnetic field strength (H-Field) (µA/m) Measurement distance (m)							
9 - 490 kHz ^{Note 1}	6.37/F (F in kHz)	300					
490 - 1705 kHz	63.7/F (F in kHz)	30					
1.705 - 30 MHz	0.08	30					

Note 1: The emission limits for the ranges 9-90 kHz and 110-490 kHz are based on measurements employing a linear average detector.



ISED Restricted bands please refer to ISED RSS-GEN Clause 8.10

MHz	MHz	GHz
0.090 - 0.110	149.9 - 150.05	9.0 - 9.2
0.495 - 0.505	158.52475 - 158.52525	9.3 - 9.5
2.1735 - 2.1905	156.7 - 156.9	10.6 - 12.7
3.020 - 3.028	162.0125 - 167.17	13.25 - 13.4
4.125 - 4.128	167.72 - 173.2	14.47 - 14.5
4.17725 - 4.17775	240 – 285	15.35 - 16.2
4.20725 - 4.20775	322 - 335.4	17.7 - 21.4
5.677 - 5.683	399.9 - 410	22.01 - 23.12
8.215 - 6.218	608 - 614	23.6 - 24.0
3.26775 - 6.26825	960 - 1427	31.2 - 31.8
3.31175 - 6.31225	1435 - 1626.5	36.43 - 36.5
8.291 - 8.294	1645.5 - 1646.5	Above 38.6
8.362 - 8.366	1660 - 1710	
8.37625 - 8.38675	1718.8 - 1722.2	
8.41425 - 8.41475	2200 - 2300	
12.29 - 12.293	2310 - 2390	
12.51975 - 12.52025	2483.5 - 2500	
12.57675 - 12.57725	2655 - 2900	
13.36 - 13.41	3260 - 3267	
16.42 - 16.423	3332 - 3339	
16.69475 - 16.69525	3345.8 - 3358	
16.80425 - 16.80475	3500 - 4400	
25.5 - 25.67	4500 - 5150	
37.5 - 38.25	5350 - 5460	
73 - 74.6	7250 - 7750	
74.8 - 75.2	8025 - 8500	
108 – 138		
08 – 138		

FCC Restricted bands of operation refer to FCC §15.205 (a):

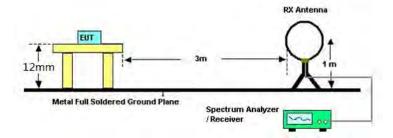
MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
¹ 0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	(²)
13.36-13.41			

Note: 1 Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz. 2 Above 38.6c



TEST SETUP AND PROCEDURE

Below 30 MHz



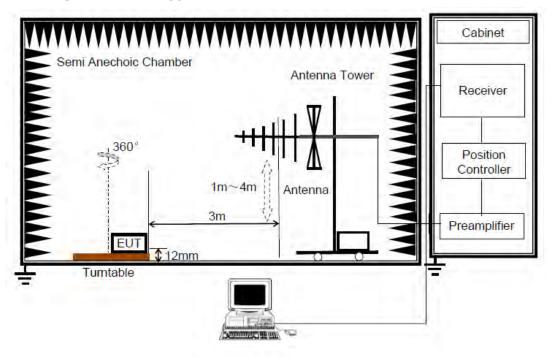
The setting of the spectrum analyser

RBW	200 Hz (From 9 kHz to 0.15 MHz)/ 9 kHz (From 0.15 MHz to 30 MHz)
VBW	200 Hz (From 9 kHz to 0.15 MHz)/ 9 kHz (From 0.15 MHz to 30 MHz)
Sweep	Auto
Trace	Max hold

- 1. The testing follows the guidelines in ANSI C63.10-2013 clause 6.4.
- 2. The EUT was arranged to its worst case and then turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level. Both Horizontal, Face-on and Face-off polarizations of the antenna are set to make the measurement.
- 3. The EUT was placed on a turntable with 12 mm above ground.
- 4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a 1 m height antenna tower.
- 5. The radiated emission limits are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz and above 1000 MHz Radiated emission limits in these three bands are based on measurements employing an average detector.
- 6. For measurement below 1 GHz, the initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak and average detector mode remeasured. If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak and average detector and reported.
- 7. Although these tests were performed other than open field site, adequate comparison measurements were confirmed against 30m open field site. Therefore sufficient tests were made to demonstrate that the alternative site produces results that correlate with the ones of tests made in an open field site based on KDB 414788.
- 8. The limits in CFR 47, Part 15, Subpart C, paragraph 15.209 (a), are identical to those in RSS-GEN Section 8.9, Table 6, since the measurements are performed in terms of magnetic field strength and converted to electric field strength levels (as reported in the table) using the free space impedance of 377Ω . For example, the measurement frequency X KHz resulted in a level of Y dBuV/m, which is equivalent to Y-51.5 = Z dBuA/m, which has the same margin, W dB, to the corresponding RSS-GEN Table 6 limit as it has to be 15.209(a) limit.



Below 1 GHz and above 30 MHz



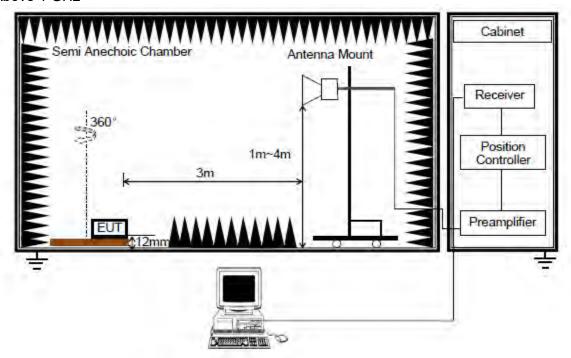
The setting of the spectrum analyser

RBW	120 kHz
VBW	300 kHz
Sweep	Auto
Detector	Peak/QP
Trace	Max hold

- 1. The testing follows the guidelines in ANSI C63.10-2013 clause 6.5.
- 2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- 3. The EUT was placed on a turntable with 12 mm above ground.
- 4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
- 5. For measurement below 1 GHz, the initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured. If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.



Above 1 GHz



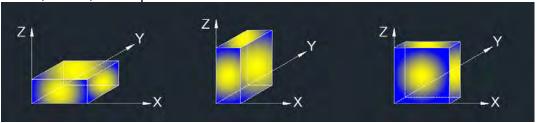
The setting of the spectrum analyser

RBW	1 MHz
1VBW	PEAK: 3 MHz AVG: see note 6
Sweep	Auto
Detector	Peak
Trace	Max hold

- 1. The testing follows the guidelines in ANSI C63.10-2013 clause 6.6.
- 2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- 3. The EUT was placed on a turntable with 12 mm above ground.
- 4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
- 5. For measurement above 1 GHz, the emission measurement will be measured by the peak detector. This peak level, once corrected, must comply with the limit specified in Section 15.209.
- 6. For measurements above 1 GHz the resolution bandwidth is set to 1 MHz, then the video bandwidth is set to 3 MHz for peak measurements and 1 MHz resolution bandwidth with 1/T video bandwidth with peak detector for average measurements. For the Duty Cycle please refer to clause 7.1. ON TIME AND DUTY CYCLE.



X axis, Y axis, Z axis positions:



Note: The manufacturer has recommended that the EUT only be used in the Floor-standing orientation; therefore, all radiated testing was performed in the orientation. The EUT was placed on normal orientation and all radiated emissions were performed with the EUT shown on the setup photo.

TEST ENVIRONMENT

Temperature 25.4 °C		Relative Humidity	62.3 %
Atmosphere Pressure	101 kPa	Test Voltage	AC120 V,60 Hz

RESULTS

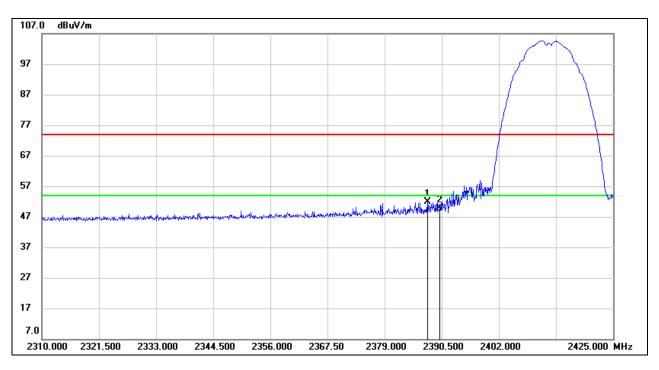


8.1. RESTRICTED BANDEDGE

8.1.1. 802.11b MODE

RESTRICTED BANDEDGE (LOW CHANNEL, VERTICAL)

PEAK

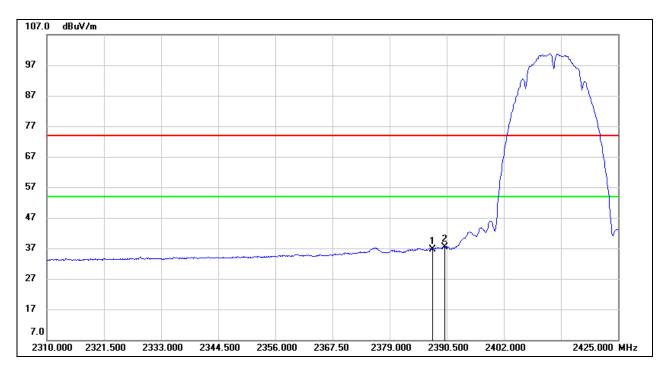


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2387.625	18.46	33.34	51.80	74.00	-22.20	peak
2	2390.000	16.58	33.35	49.93	74.00	-24.07	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.



AVG

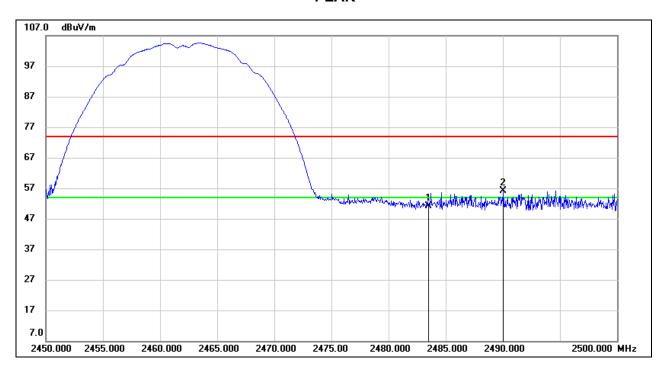


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2387.625	3.32	33.34	36.66	54.00	-17.34	AVG
2	2390.000	4.10	33.35	37.45	54.00	-16.55	AVG

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
- 4. For the transmitting duration, please refer to clause 7.1.
- 5. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.



RESTRICTED BANDEDGE (HIGH CHANNEL, VERTICAL) PEAK

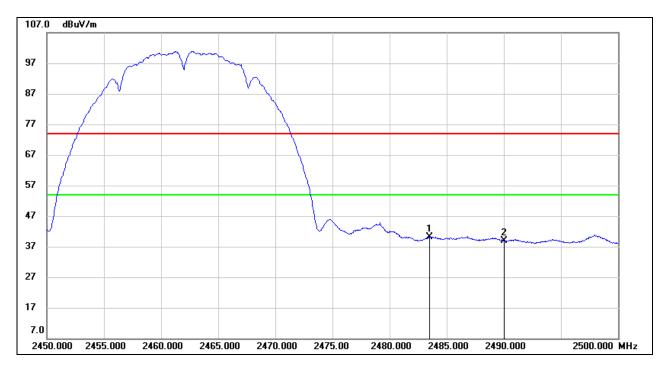


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2483.500	17.47	33.71	51.18	74.00	-22.82	peak
2	2490.050	22.30	33.73	56.03	74.00	-17.97	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.



AVG



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2483.500	6.33	33.71	40.04	54.00	-13.96	AVG
2	2490.050	5.17	33.73	38.90	54.00	-15.10	AVG

Note: 1. Measurement = Reading Level + Correct Factor.

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
- 4. For the transmitting duration, please refer to clause 7.1.
- 5. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

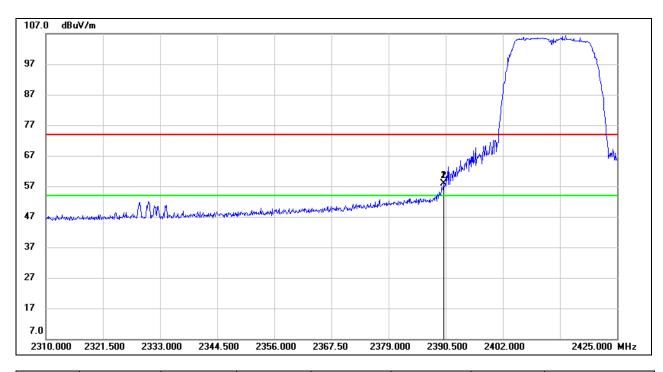
Note: Both horizontal and vertical had been tested, only the worst data was recorded in the report.



8.1.2. 802.11g MODE

RESTRICTED BANDEDGE (LOW CHANNEL, VERTICAL)

PEAK

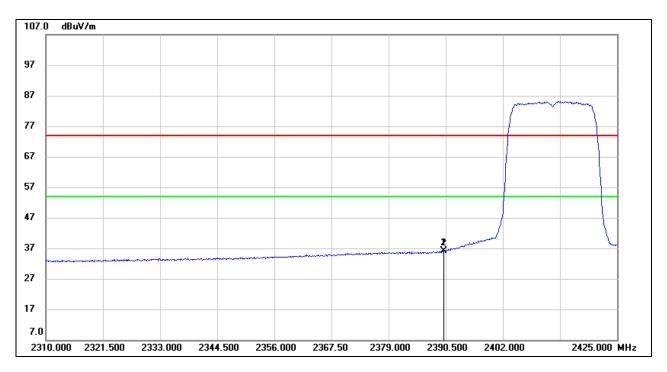


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2390.000	24.47	33.35	57.82	74.00	-16.18	peak
2	2390.040	24.47	33.35	57.82	74.00	-16.18	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.



AVG

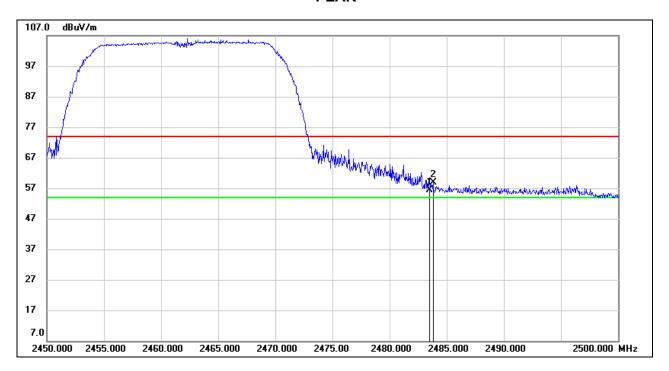


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2390.000	2.74	33.35	36.09	54.00	-17.91	AVG
2	2390.040	2.74	33.35	36.09	54.00	-17.91	AVG

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
- 4. For the transmitting duration, please refer to clause 7.1.
- 5. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.



RESTRICTED BANDEDGE (HIGH CHANNEL, VERTICAL)
PEAK

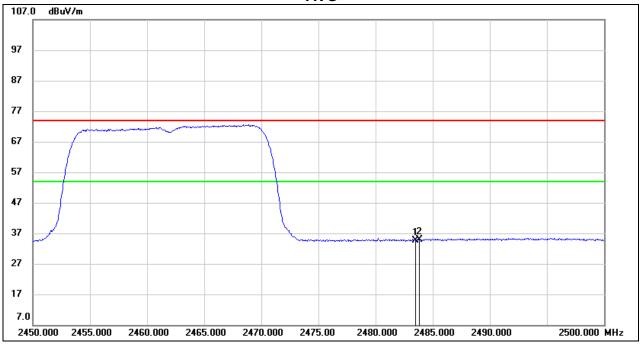


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2483.500	22.70	33.71	56.41	74.00	-17.59	peak
2	2483.800	25.13	33.71	58.84	74.00	-15.16	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.







No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2483.500	0.95	33.71	34.66	54.00	-19.34	AVG
2	2483.800	1.19	33.71	34.90	54.00	-19.10	AVG

Note: 1. Measurement = Reading Level + Correct Factor.

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
- 4. For the transmitting duration, please refer to clause 7.1.
- 5. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

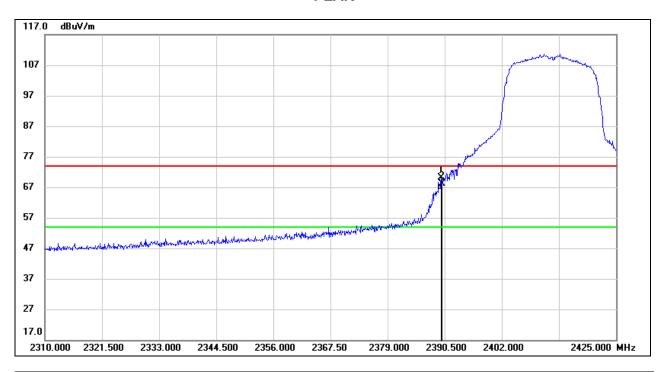
Note: Both horizontal and vertical had been tested, only the worst data was recorded in the report.



8.1.3. 802.11n HT20 MODE

RESTRICTED BANDEDGE (LOW CHANNEL, VERTICAL)

PEAK

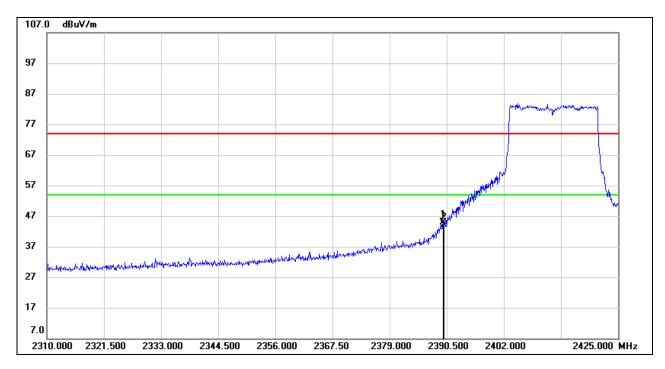


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2389.810	36.70	33.35	70.05	74.00	-3.95	peak
2	2390.000	34.68	33.35	68.03	74.00	-5.97	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.



AVG

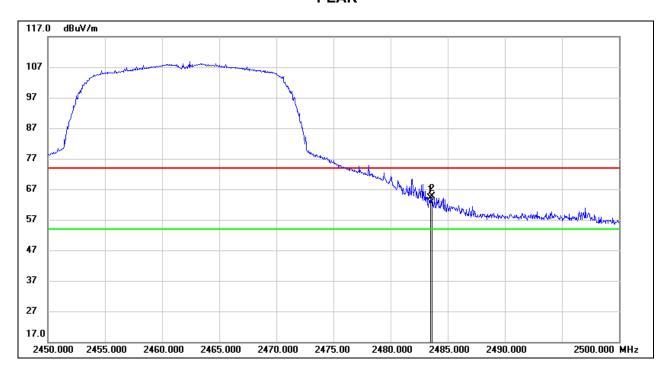


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2389.810	11.44	33.35	44.79	54.00	-9.21	AVG
2	2390.000	10.76	33.35	44.11	54.00	-9.89	AVG

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
- 4. For the transmitting duration, please refer to clause 7.1.
- 5. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.



RESTRICTED BANDEDGE (HIGH CHANNEL, VERTICAL) PEAK

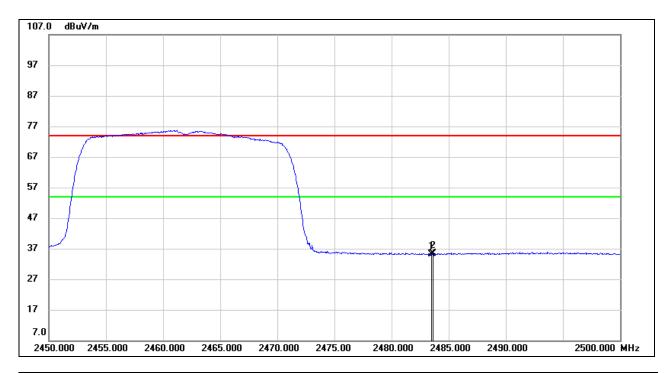


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2483.500	30.53	33.71	64.24	74.00	-9.76	peak
2	2483.600	30.93	33.71	64.64	74.00	-9.36	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.



AVG



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2483.500	1.52	33.71	35.23	54.00	-18.77	AVG
2	2483.600	1.57	33.71	35.28	54.00	-18.72	AVG

Note: 1. Measurement = Reading Level + Correct Factor.

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
- 4. For the transmitting duration, please refer to clause 7.1.
- 5. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

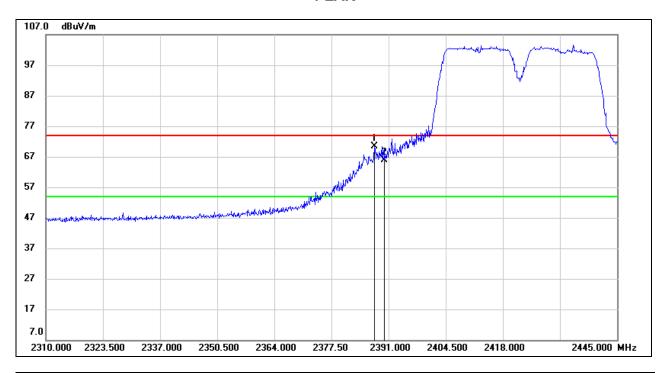
Note: Both horizontal and vertical had been tested, only the worst data was recorded in the report.



8.1.4. 802.11n HT40 MODE

RESTRICTED BANDEDGE (LOW CHANNEL, VERTICAL)

PEAK

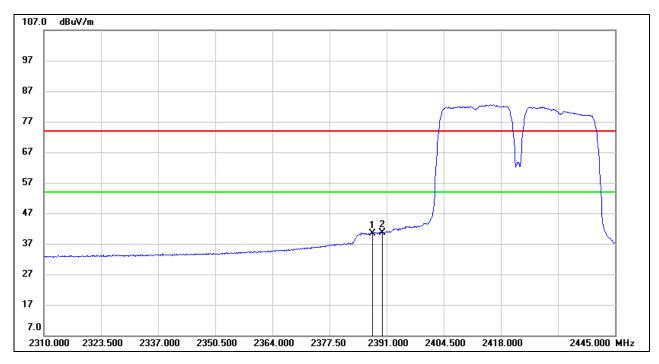


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2387.625	36.97	33.34	70.31	74.00	-3.69	peak
2	2390.000	32.62	33.35	65.97	74.00	-8.03	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.



AVG



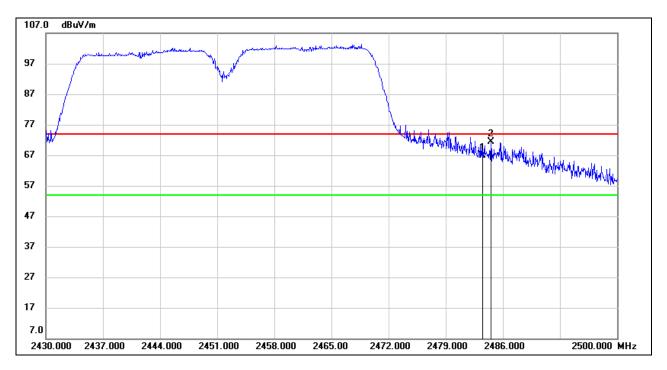
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2387.625	6.99	33.34	40.33	54.00	-13.67	AVG
2	2390.000	7.39	33.35	40.74	54.00	-13.26	AVG

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
- 4. For the transmitting duration, please refer to clause 7.1.
- 5. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.



RESTRICTED BANDEDGE (HIGH CHANNEL, VERTICAL)

PEAK

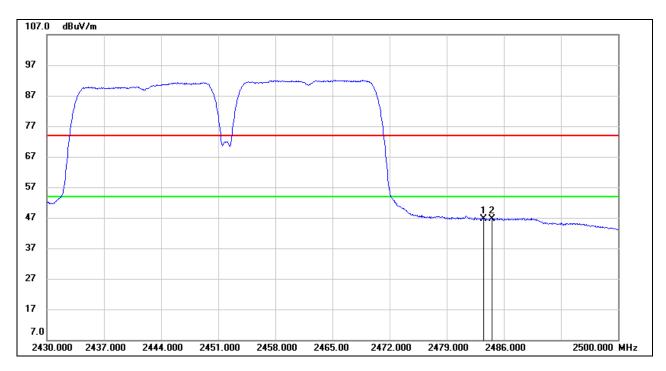


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2483.500	33.07	33.71	66.78	74.00	-7.22	peak
2	2484.530	37.63	33.71	71.34	74.00	-2.66	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.



AVG



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2483.500	12.91	33.71	46.62	54.00	-7.38	AVG
2	2484.530	12.85	33.71	46.56	54.00	-7.44	AVG

Note: 1. Measurement = Reading Level + Correct Factor.

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
- 4. For the transmitting duration, please refer to clause 7.1.
- 5. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

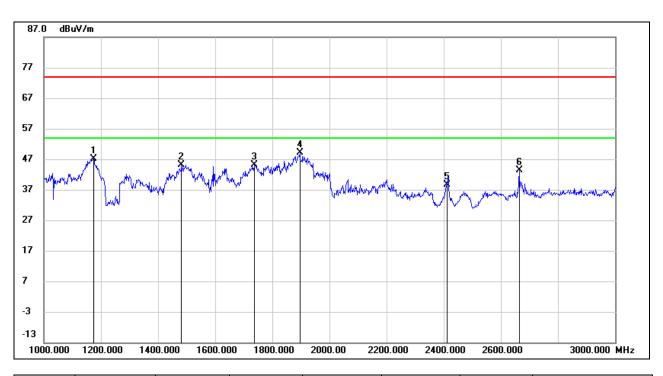
Note: Both horizontal and vertical had been tested, only the worst data was recorded in the report.



8.2. SPURIOUS EMISSIONS (1 GHz ~ 3 GHz)

8.2.1. 802.11g MODE

HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, HORIZONTAL)

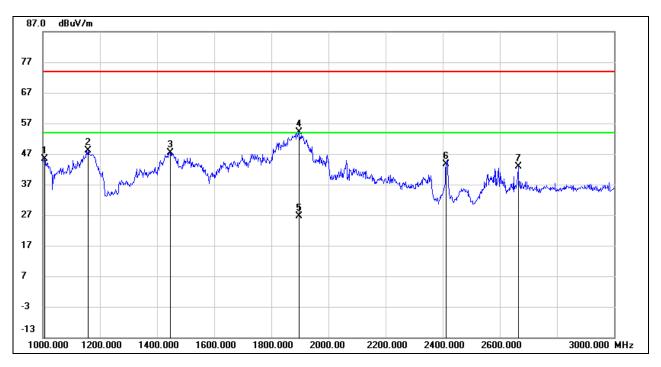


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1174.000	60.29	-13.13	47.16	74.00	-26.84	peak
2	1482.000	57.52	-12.31	45.21	74.00	-28.79	peak
3	1736.000	55.67	-10.52	45.15	74.00	-28.85	peak
4	1896.000	59.18	-10.12	49.06	74.00	-24.94	peak
5	2412.000	47.01	-8.37	38.64	/	/	Fundamental
6	2664.000	50.86	-7.44	43.42	74.00	-30.58	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band reject filter losses.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, VERTICAL)

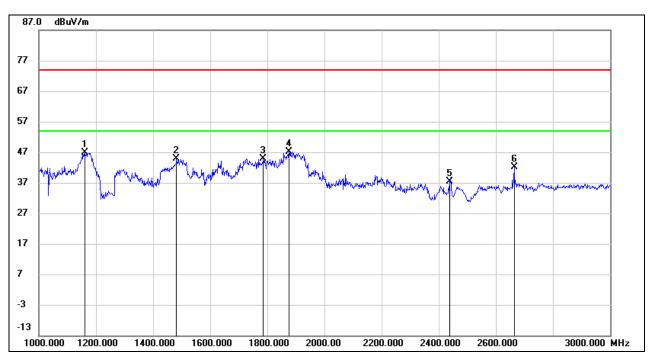


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1006.000	59.36	-13.95	45.41	74.00	-28.59	peak
2	1158.000	61.34	-13.20	48.14	74.00	-25.86	peak
3	1446.000	59.96	-12.49	47.47	74.00	-26.53	peak
4	1896.000	64.18	-10.12	54.06	74.00	-19.94	peak
5	1896.000	36.82	-10.12	26.70	54.00	-27.30	AVG
6	2412.000	52.03	-8.37	43.66	/	/	Fundamental
7	2664.000	50.41	-7.44	42.97	74.00	-31.03	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band reject filter losses.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, HORIZONTAL)

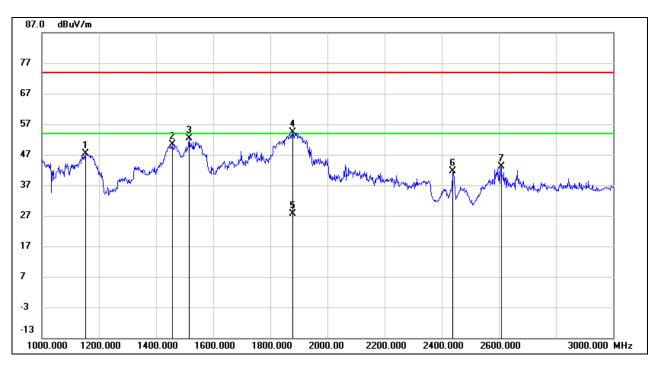


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1160.000	59.94	-13.18	46.76	74.00	-27.24	peak
2	1482.000	57.12	-12.31	44.81	74.00	-29.19	peak
3	1786.000	55.14	-10.15	44.99	74.00	-29.01	peak
4	1876.000	57.34	-10.10	47.24	74.00	-26.76	peak
5	2437.000	45.78	-8.33	37.45	/	/	Fundamental
6	2664.000	49.64	-7.44	42.20	74.00	-31.80	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band reject filter losses.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, VERTICAL)

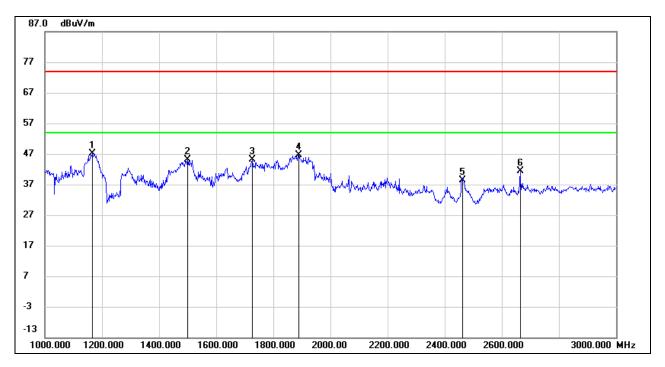


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1152.000	60.71	-13.23	47.48	74.00	-26.52	peak
2	1456.000	62.83	-12.44	50.39	74.00	-23.61	peak
3	1516.000	64.59	-12.12	52.47	74.00	-21.53	peak
4	1878.000	64.39	-10.10	54.29	74.00	-19.71	peak
5	1878.000	37.70	-10.10	27.60	54.00	-26.40	AVG
6	2437.000	49.84	-8.33	41.51	/	/	Fundamental
7	2608.000	50.84	-7.81	43.03	74.00	-30.97	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band reject filter losses.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, HORIZONTAL)

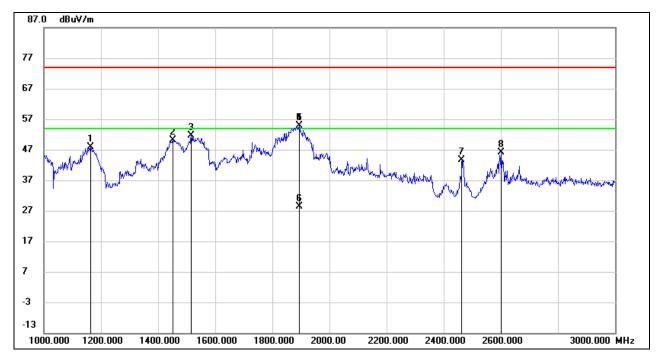


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1166.000	60.32	-13.15	47.17	74.00	-26.83	peak
2	1500.000	57.30	-12.23	45.07	74.00	-28.93	peak
3	1726.000	55.77	-10.60	45.17	74.00	-28.83	peak
4	1890.000	56.70	-10.12	46.58	74.00	-27.42	peak
5	2462.000	46.70	-8.29	38.41	/	/	Fundamental
6	2664.000	48.90	-7.44	41.46	74.00	-32.54	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band reject filter losses.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, VERTICAL)



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1164.000	61.14	-13.17	47.97	74.00	-26.03	peak
2	1452.000	62.60	-12.46	50.14	74.00	-23.86	peak
3	1516.000	63.86	-12.12	51.74	74.00	-22.26	peak
5	1894.000	65.08	-10.11	54.97	74.00	-19.03	peak
6	1894.000	38.47	-10.11	28.36	54.00	-25.64	AVG
7	2462.000	51.94	-8.29	43.65	/	/	Fundamental
8	2602.000	54.03	-7.85	46.18	74.00	-27.82	peak

Note: 1. Measurement = Reading Level + Correct Factor.

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band reject filter losses.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.

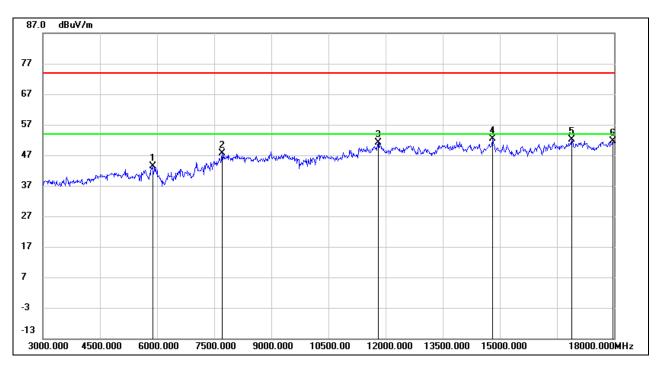
Note: All the modes and channels had been tested, but only the worst data was recorded in the report.



8.3. SPURIOUS EMISSIONS (3 GHz ~ 18 GHz)

8.3.1. 802.11b MODE

HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, HORIZONTAL)

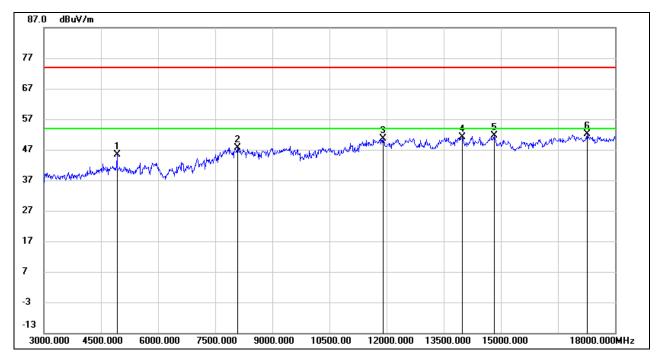


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5880.000	38.96	4.31	43.27	74.00	-30.73	peak
2	7710.000	39.19	8.54	47.73	74.00	-26.27	peak
3	11805.000	35.89	15.26	51.15	74.00	-22.85	peak
4	14805.000	34.26	18.00	52.26	74.00	-21.74	peak
5	16890.000	30.53	21.49	52.02	74.00	-21.98	peak
6	17970.000	27.44	24.15	51.59	74.00	-22.41	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, VERTICAL)

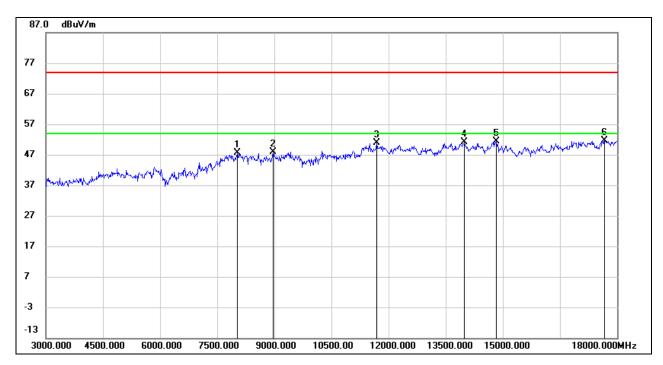


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4920.000	43.87	1.45	45.32	74.00	-28.68	peak
2	8085.000	37.64	9.94	47.58	74.00	-26.42	peak
3	11910.000	35.18	15.52	50.70	74.00	-23.30	peak
4	13980.000	33.53	17.64	51.17	74.00	-22.83	peak
5	14820.000	33.60	17.91	51.51	74.00	-22.49	peak
6	17265.000	29.62	22.39	52.01	74.00	-21.99	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, HORIZONTAL)

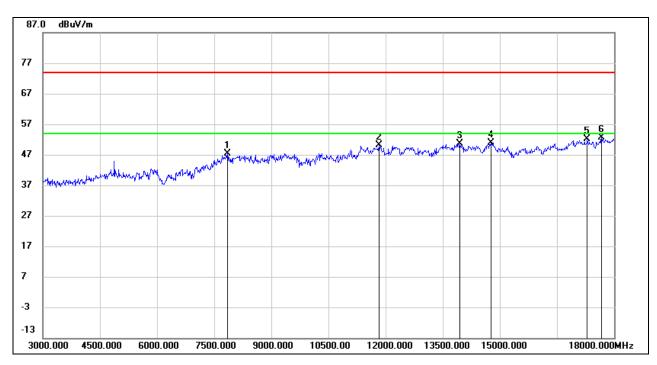


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	8025.000	38.57	9.01	47.58	74.00	-26.42	peak
2	8970.000	37.22	10.70	47.92	74.00	-26.08	peak
3	11685.000	35.68	15.26	50.94	74.00	-23.06	peak
4	13995.000	33.49	17.66	51.15	74.00	-22.85	peak
5	14835.000	33.67	17.80	51.47	74.00	-22.53	peak
6	17670.000	28.50	23.24	51.74	74.00	-22.26	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, VERTICAL)

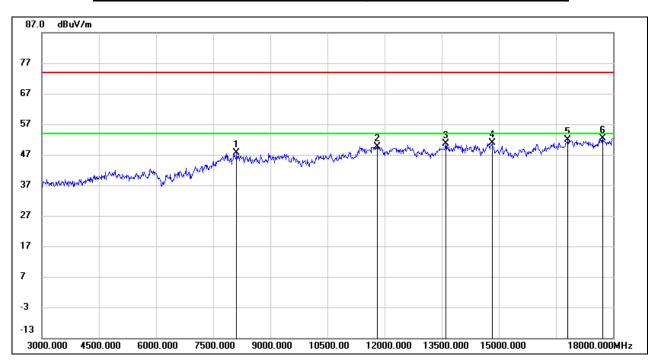


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	7845.000	38.29	9.14	47.43	74.00	-26.57	peak
2	11820.000	34.92	15.29	50.21	74.00	-23.79	peak
3	13950.000	33.05	17.60	50.65	74.00	-23.35	peak
4	14760.000	33.05	17.90	50.95	74.00	-23.05	peak
5	17295.000	29.56	22.58	52.14	74.00	-21.86	peak
6	17670.000	29.31	23.24	52.55	74.00	-21.45	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, HORIZONTAL)

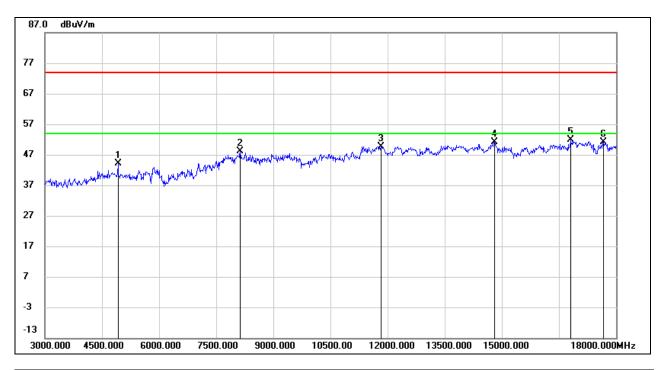


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	8115.000	37.49	10.13	47.62	74.00	-26.38	peak
2	11805.000	34.39	15.26	49.65	74.00	-24.35	peak
3	13605.000	33.47	17.12	50.59	74.00	-23.41	peak
4	14820.000	33.01	17.91	50.92	74.00	-23.08	peak
5	16815.000	31.06	20.84	51.90	74.00	-22.10	peak
6	17730.000	28.69	23.64	52.33	74.00	-21.67	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, VERTICAL)



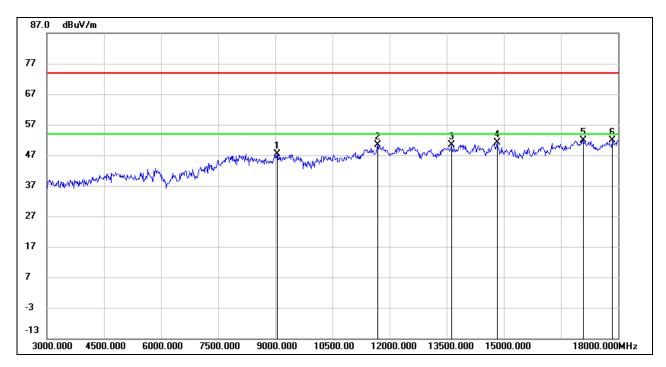
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4920.000	42.76	1.45	44.21	74.00	-29.79	peak
2	8130.000	37.95	10.06	48.01	74.00	-25.99	peak
3	11820.000	34.38	15.29	49.67	74.00	-24.33	peak
4	14805.000	33.24	18.00	51.24	74.00	-22.76	peak
5	16800.000	31.18	20.71	51.89	74.00	-22.11	peak
6	17670.000	27.88	23.24	51.12	74.00	-22.88	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



8.3.2. 802.11g MODE

HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, HORIZONTAL)

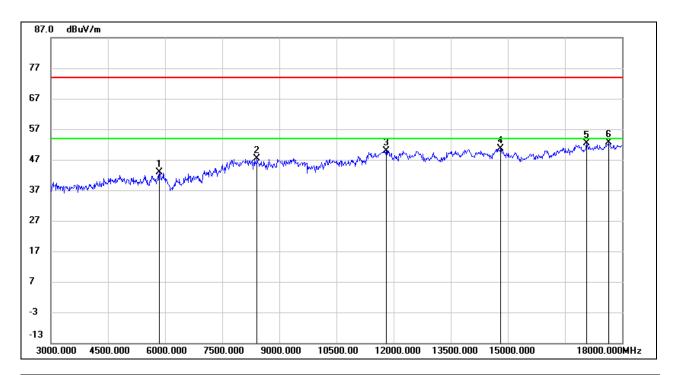


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	9045.000	36.68	10.77	47.45	74.00	-26.55	peak
2	11685.000	35.16	15.26	50.42	74.00	-23.58	peak
3	13620.000	33.29	17.19	50.48	74.00	-23.52	peak
4	14820.000	33.31	17.91	51.22	74.00	-22.78	peak
5	17085.000	30.17	21.80	51.97	74.00	-22.03	peak
6	17850.000	27.80	23.97	51.77	74.00	-22.23	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, VERTICAL)

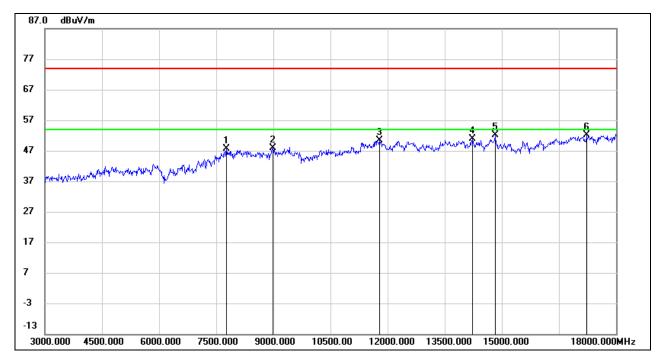


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5850.000	38.85	4.00	42.85	74.00	-31.15	peak
2	8415.000	38.10	9.31	47.41	74.00	-26.59	peak
3	11805.000	34.71	15.26	49.97	74.00	-24.03	peak
4	14805.000	32.75	18.00	50.75	74.00	-23.25	peak
5	17070.000	30.79	21.71	52.50	74.00	-21.50	peak
6	17640.000	29.53	23.03	52.56	74.00	-21.44	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, HORIZONTAL)

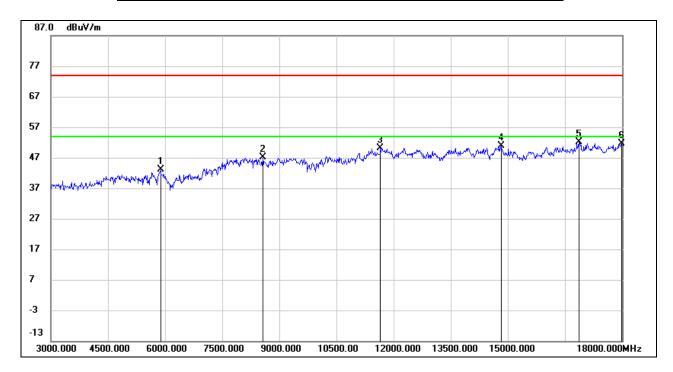


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	7770.000	38.47	9.09	47.56	74.00	-26.44	peak
2	8985.000	36.93	10.99	47.92	74.00	-26.08	peak
3	11790.000	35.18	15.26	50.44	74.00	-23.56	peak
4	14235.000	33.06	17.91	50.97	74.00	-23.03	peak
5	14820.000	34.19	17.91	52.10	74.00	-21.90	peak
6	17220.000	30.08	22.12	52.20	74.00	-21.80	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, VERTICAL)

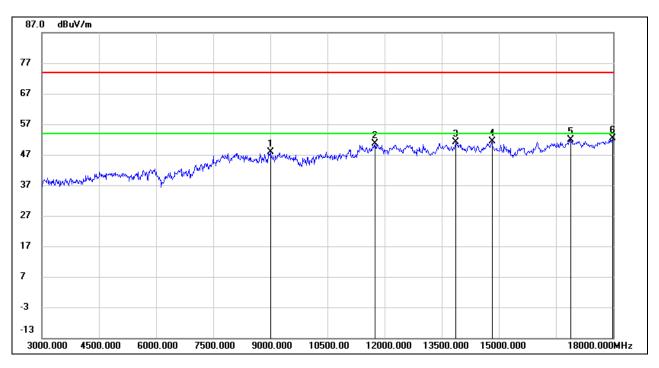


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5880.000	38.88	4.31	43.19	74.00	-30.81	peak
2	8565.000	38.04	9.15	47.19	74.00	-26.81	peak
3	11655.000	35.14	15.07	50.21	74.00	-23.79	peak
4	14820.000	32.92	17.91	50.83	74.00	-23.17	peak
5	16860.000	31.00	21.22	52.22	74.00	-21.78	peak
6	17985.000	27.38	24.21	51.59	74.00	-22.41	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, HORIZONTAL)

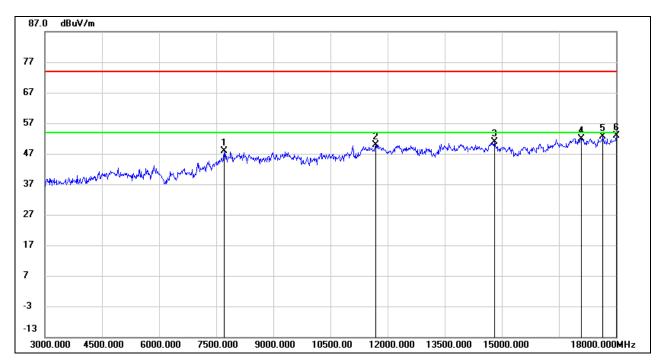


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	9000.000	36.73	11.27	48.00	74.00	-26.00	peak
2	11745.000	35.21	15.30	50.51	74.00	-23.49	peak
3	13875.000	33.57	17.55	51.12	74.00	-22.88	peak
4	14820.000	33.50	17.91	51.41	74.00	-22.59	peak
5	16890.000	30.39	21.49	51.88	74.00	-22.12	peak
6	17985.000	28.13	24.21	52.34	74.00	-21.66	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, VERTICAL)



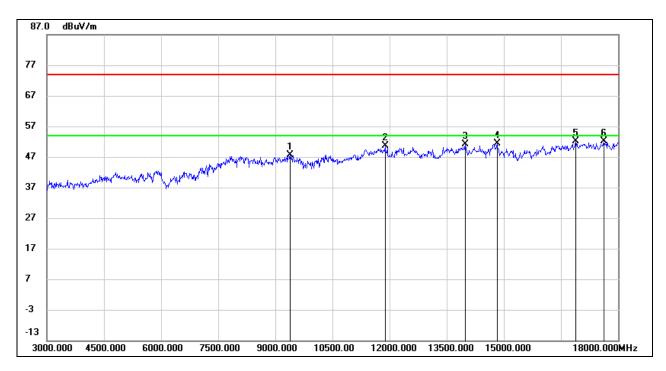
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	7710.000	39.32	8.54	47.86	74.00	-26.14	peak
2	11685.000	34.70	15.26	49.96	74.00	-24.04	peak
3	14805.000	33.00	18.00	51.00	74.00	-23.00	peak
4	17085.000	30.16	21.80	51.96	74.00	-22.04	peak
5	17655.000	29.47	23.14	52.61	74.00	-21.39	peak
6	18000.000	28.56	24.27	52.83	74.00	-21.17	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



8.3.3. 802.11n HT20 MODE

HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, HORIZONTAL)

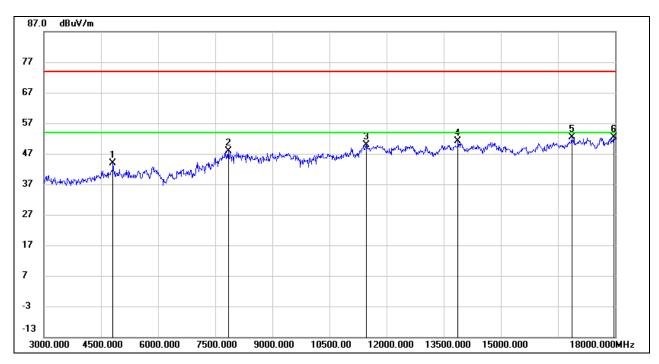


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	9390.000	36.68	10.92	47.60	74.00	-26.40	peak
2	11880.000	35.26	15.46	50.72	74.00	-23.28	peak
3	13980.000	33.40	17.64	51.04	74.00	-22.96	peak
4	14820.000	33.40	17.91	51.31	74.00	-22.69	peak
5	16890.000	30.54	21.49	52.03	74.00	-21.97	peak
6	17625.000	29.17	22.92	52.09	74.00	-21.91	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, VERTICAL)

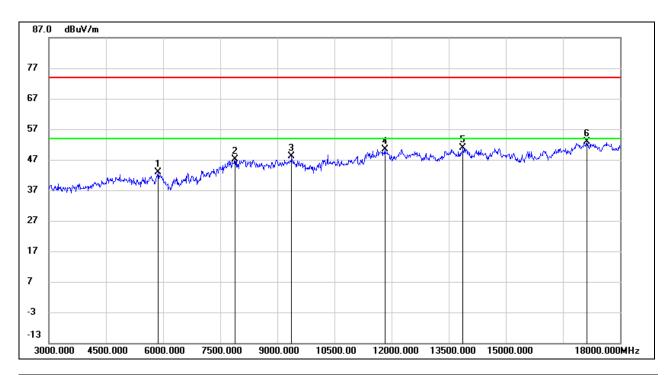


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4815.000	42.61	1.38	43.99	74.00	-30.01	peak
2	7845.000	38.84	9.14	47.98	74.00	-26.02	peak
3	11460.000	35.31	14.69	50.00	74.00	-24.00	peak
4	13875.000	33.49	17.55	51.04	74.00	-22.96	peak
5	16860.000	31.25	21.22	52.47	74.00	-21.53	peak
6	17970.000	28.13	24.15	52.28	74.00	-21.72	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, HORIZONTAL)

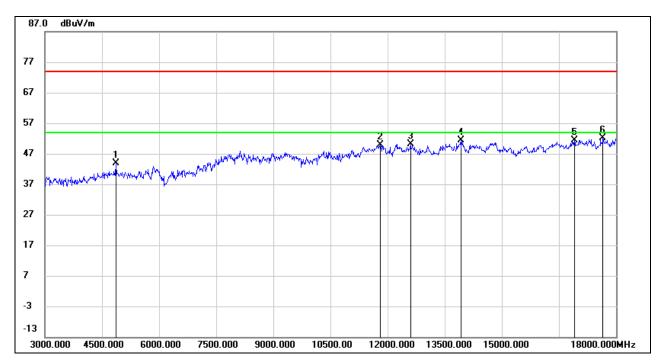


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5865.000	38.75	4.16	42.91	74.00	-31.09	peak
2	7890.000	38.19	8.91	47.10	74.00	-26.90	peak
3	9375.000	37.27	10.83	48.10	74.00	-25.90	peak
4	11820.000	35.03	15.29	50.32	74.00	-23.68	peak
5	13875.000	33.41	17.55	50.96	74.00	-23.04	peak
6	17130.000	30.86	21.92	52.78	74.00	-21.22	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, VERTICAL)

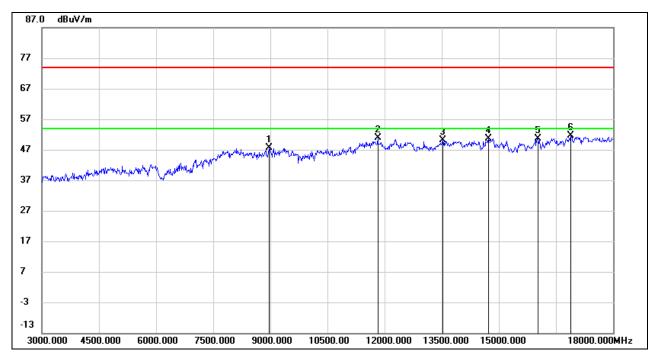


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4860.000	42.57	1.33	43.90	74.00	-30.10	peak
2	11805.000	34.55	15.26	49.81	74.00	-24.19	peak
3	12600.000	34.39	15.78	50.17	74.00	-23.83	peak
4	13920.000	33.75	17.55	51.30	74.00	-22.70	peak
5	16905.000	29.80	21.55	51.35	74.00	-22.65	peak
6	17655.000	28.89	23.14	52.03	74.00	-21.97	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, HORIZONTAL)

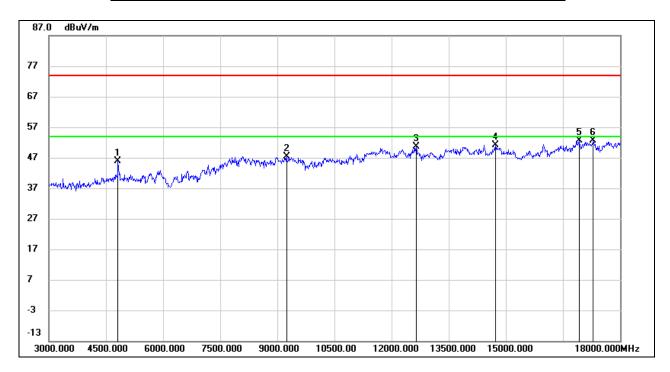


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	8970.000	36.82	10.70	47.52	74.00	-26.48	peak
2	11820.000	35.69	15.29	50.98	74.00	-23.02	peak
3	13530.000	32.86	17.19	50.05	74.00	-23.95	peak
4	14730.000	32.89	17.79	50.68	74.00	-23.32	peak
5	16020.000	32.33	18.41	50.74	74.00	-23.26	peak
6	16890,000	30.03	21.49	51.52	74.00	-22.48	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, VERTICAL)



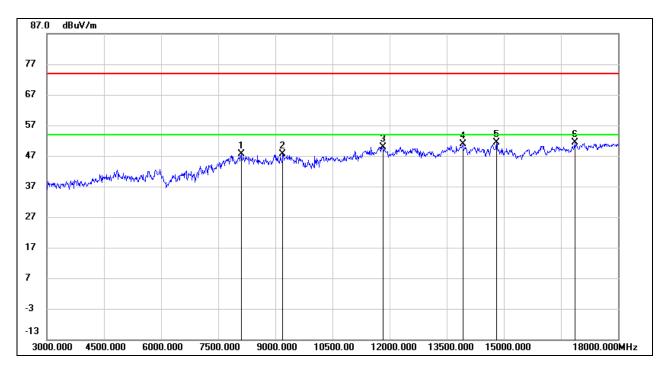
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4815.000	44.50	1.38	45.88	74.00	-28.12	peak
2	9240.000	37.24	10.10	47.34	74.00	-26.66	peak
3	12645.000	34.90	15.71	50.61	74.00	-23.39	peak
4	14730.000	33.41	17.79	51.20	74.00	-22.80	peak
5	16920.000	31.04	21.51	52.55	74.00	-21.45	peak
6	17295.000	30.08	22.58	52.66	74.00	-21.34	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



8.3.4. 802.11n HT40 MODE

HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, HORIZONTAL)

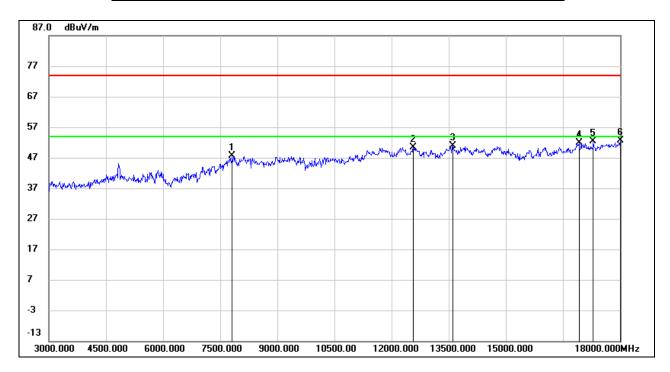


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	8100.000	37.54	10.18	47.72	74.00	-26.28	peak
2	9195.000	37.71	9.92	47.63	74.00	-26.37	peak
3	11820.000	34.52	15.29	49.81	74.00	-24.19	peak
4	13920.000	33.22	17.55	50.77	74.00	-23.23	peak
5	14805.000	33.34	18.00	51.34	74.00	-22.66	peak
6	16860.000	30.19	21.22	51.41	74.00	-22.59	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, VERTICAL)

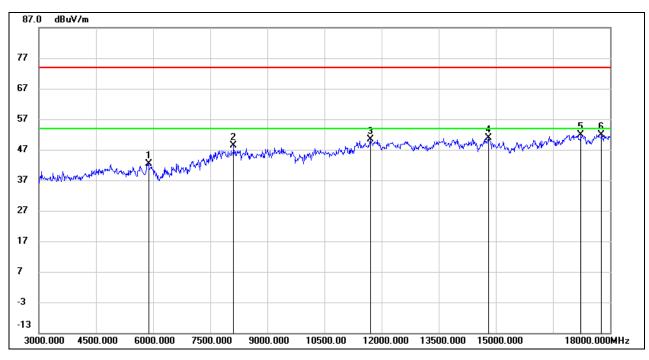


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	7815.000	38.30	9.28	47.58	74.00	-26.42	peak
2	12570.000	34.73	15.75	50.48	74.00	-23.52	peak
3	13605.000	33.81	17.12	50.93	74.00	-23.07	peak
4	16920.000	30.43	21.51	51.94	74.00	-22.06	peak
5	17295.000	29.71	22.58	52.29	74.00	-21.71	peak
6	18000.000	28.27	24.27	52.54	74.00	-21.46	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, HORIZONTAL)

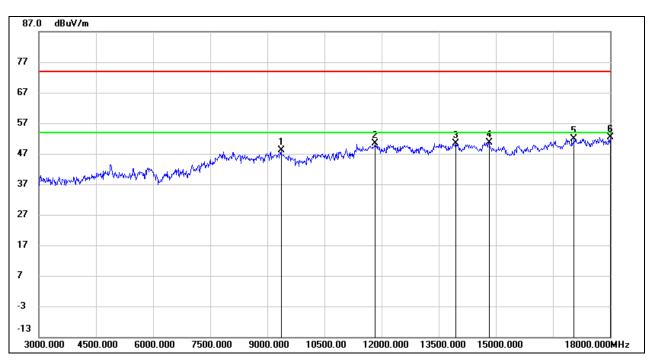


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5880.000	38.03	4.31	42.34	74.00	-31.66	peak
2	8115.000	38.18	10.13	48.31	74.00	-25.69	peak
3	11700.000	35.01	15.35	50.36	74.00	-23.64	peak
4	14805.000	32.82	18.00	50.82	74.00	-23.18	peak
5	17235.000	29.56	22.21	51.77	74.00	-22.23	peak
6	17775.000	28.06	23.91	51.97	74.00	-22.03	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, VERTICAL)



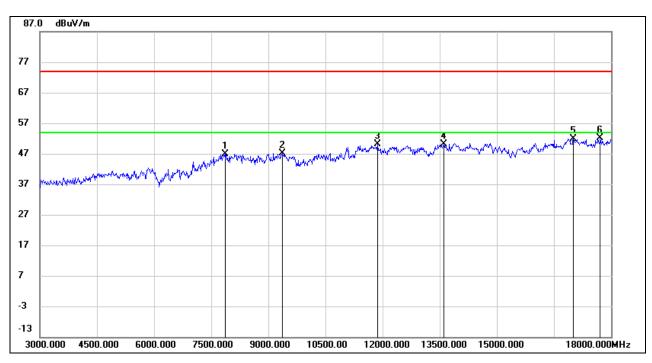
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	9360.000	37.33	10.75	48.08	74.00	-25.92	peak
2	11835.000	35.14	15.34	50.48	74.00	-23.52	peak
3	13950.000	32.75	17.60	50.35	74.00	-23.65	peak
4	14820.000	32.72	17.91	50.63	74.00	-23.37	peak
5	17055.000	30.37	21.60	51.97	74.00	-22.03	peak
6	18000.000	28.18	24.27	52.45	74.00	-21.55	peak

Note: 1. Peak Result = Reading Level + Correct Factor.

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, HORIZONTAL)



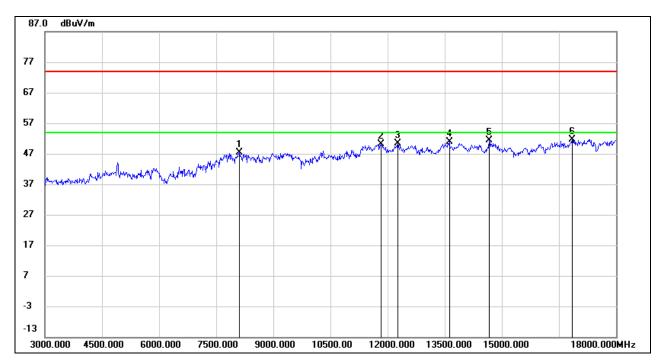
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	7875.000	38.02	8.98	47.00	74.00	-27.00	peak
2	9360.000	36.49	10.75	47.24	74.00	-26.76	peak
3	11865.000	34.64	15.42	50.06	74.00	-23.94	peak
4	13605.000	33.02	17.12	50.14	74.00	-23.86	peak
5	17010.000	30.65	21.31	51.96	74.00	-22.04	peak
6	17715.000	28.53	23.56	52.09	74.00	-21.91	peak

Note: 1. Peak Result = Reading Level + Correct Factor.

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, VERTICAL)



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	8115.000	37.32	10.13	47.45	74.00	-26.55	peak
2	11820.000	34.72	15.29	50.01	74.00	-23.99	peak
3	12270.000	34.25	16.04	50.29	74.00	-23.71	peak
4	13620.000	33.72	17.19	50.91	74.00	-23.09	peak
5	14670.000	33.78	17.59	51.37	74.00	-22.63	peak
6	16845.000	30.53	21.10	51.63	74.00	-22.37	peak

Note: 1. Peak Result = Reading Level + Correct Factor.

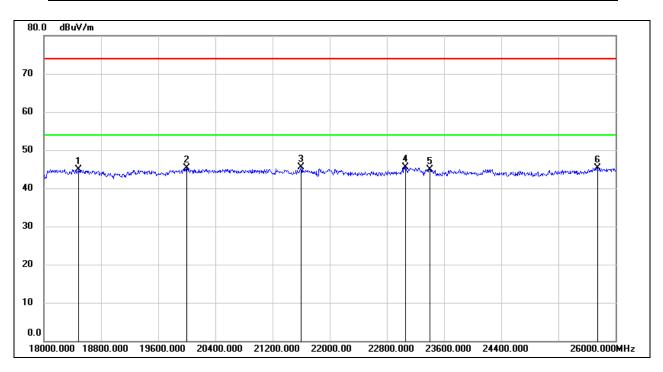
- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



8.4. SPURIOUS EMISSIONS (18 GHz ~ 26 GHz)

8.4.1. 802.11b MODE

SPURIOUS EMISSIONS (LOW CHANNEL, WORST-CASE CONFIGURATION, HORIZONTAL)



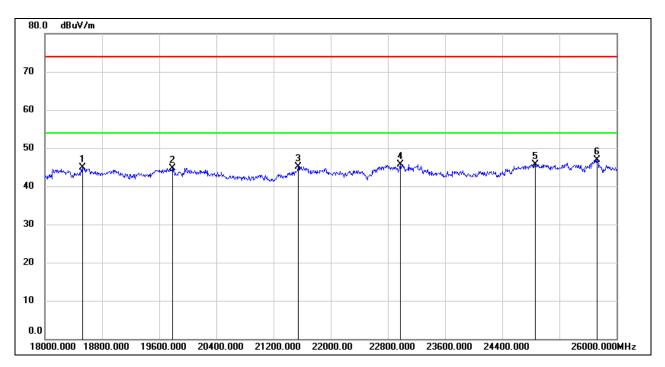
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	18488.000	50.15	-5.26	44.89	74.00	-29.11	peak
2	20000.000	50.81	-5.45	45.36	74.00	-28.64	peak
3	21600.000	50.02	-4.54	45.48	74.00	-28.52	peak
4	23064.000	48.99	-3.42	45.57	74.00	-28.43	peak
5	23400.000	48.19	-3.23	44.96	74.00	-29.04	peak
6	25744.000	46.00	-0.64	45.36	74.00	-28.64	peak

Note: 1. Measurement = Reading Level + Correct Factor.

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. The preamplifier only effect to the above 18GHz signal and no filter added to the measurement chain.



SPURIOUS EMISSIONS (LOW CHANNEL, WORST-CASE CONFIGURATION, VERTICAL)



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	18528.000	50.11	-5.26	44.85	74.00	-29.15	peak
2	19784.000	50.07	-5.28	44.79	74.00	-29.21	peak
3	21544.000	49.76	-4.63	45.13	74.00	-28.87	peak
4	22976.000	49.26	-3.46	45.80	74.00	-28.20	peak
5	24864.000	48.03	-2.23	45.80	74.00	-28.20	peak
6	25728.000	47.61	-0.72	46.89	74.00	-27.11	peak

Note: 1. Measurement = Reading Level + Correct Factor.

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. The preamplifier only effect to the above 18GHz signal and no filter added to the measurement chain.

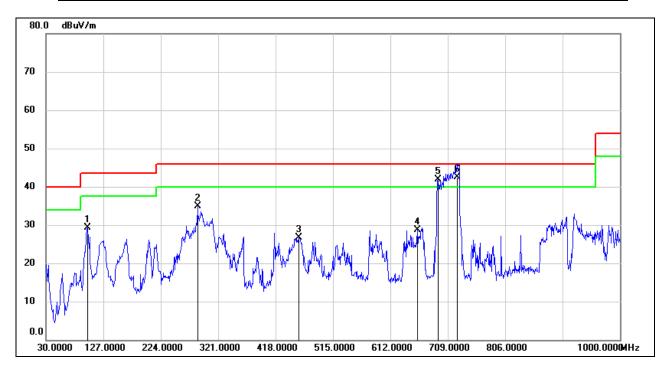
Note: All the modes and channels have been tested, but only the worst data was recorded in the report.



8.5. SPURIOUS EMISSIONS (30 MHz ~ 1 GHz)

8.5.1. 802.11b MODE

SPURIOUS EMISSIONS (LOW CHANNEL, WORST-CASE CONFIGURATION, HORIZONTAL)



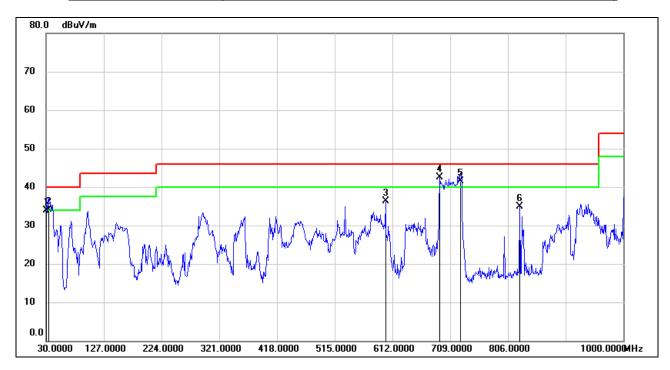
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	99.8399	50.36	-21.15	29.21	43.50	-14.29	QP
2	286.0799	51.05	-16.21	34.84	46.00	-11.16	QP
3	456.8000	38.97	-12.24	26.73	46.00	-19.27	QP
4	657.5900	37.40	-8.77	28.63	46.00	-17.37	QP
5	692.5100	50.22	-8.33	41.89	46.00	-4.11	QP
6	725.4900	50.57	-8.11	42.46	46.00	-3.54	QP

Note: 1. Result Level = Read Level + Correct Factor.

- 2. If Peak Result complies with QP limit, QP Result is deemed to comply with QP limit.
- 3. Test setup: RBW: 120 kHz, VBW: 300 kHz, Sweep time: auto.



SPURIOUS EMISSIONS (LOW CHANNEL, WORST-CASE CONFIGURATION, VERTICAL)



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	30.0000	52.83	-18.94	33.89	40.00	-6.11	QP
2	33.8800	53.43	-19.31	34.12	40.00	-5.88	QP
3	600.3600	45.91	-9.54	36.37	46.00	-9.63	QP
4	691.5400	50.78	-8.34	42.44	46.00	-3.56	QP
5	726.4600	49.56	-8.11	41.45	46.00	-4.55	QP
6	826.3700	41.58	-6.76	34.82	46.00	-11.18	QP

Note: 1. Result Level = Read Level + Correct Factor.

- 2. If Peak Result complies with QP limit, QP Result is deemed to comply with QP limit.
- 3. Test setup: RBW: 120 kHz, VBW: 300 kHz, Sweep time: auto

Note: All the modes and channels have been tested, but only the worst data was recorded in the report.

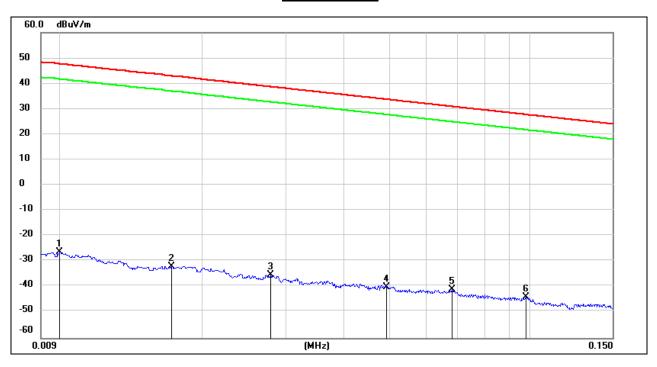


8.6. SPURIOUS EMISSIONS BELOW 30 MHz

8.6.1. 802.11b MODE

SPURIOUS EMISSIONS (LOW CHANNEL, LOOP ANTENNA FACE ON TO THE EUT, WORST-CASE CONFIGURATION)

9 kHz~ 150 kHz



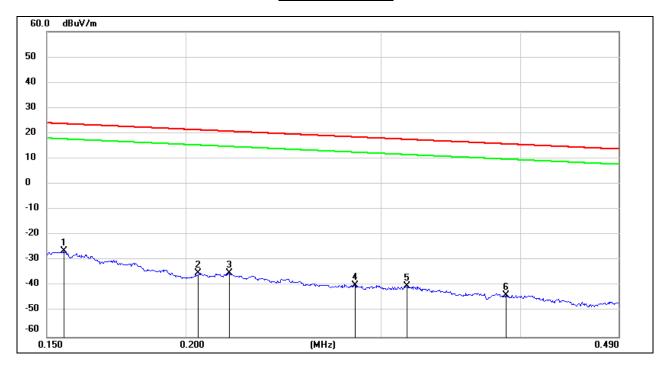
No.	Frequency	Reading	Correct	FCC	FCC	ISED	ISED	Margin	Remark
				Result	Limit	Result	Limit		
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dBuA/m)	(dBuA/m)	(dB)	
1	0.0100	75.22	-101.40	-26.18	47.6	-77.68	-3.90	-73.78	peak
2	0.0171	69.38	-101.36	-31.98	42.94	-83.48	-8.56	-74.92	peak
3	0.0279	66.17	-101.38	-35.21	38.69	-86.71	-12.81	-73.90	peak
4	0.0492	61.48	-101.47	-39.99	33.76	-91.49	-17.74	-73.75	peak
5	0.0680	60.54	-101.56	-41.02	30.95	-92.52	-20.55	-71.97	peak
6	0.0981	57.77	-101.78	-44.01	27.77	-95.51	-23.73	-71.78	peak

Note: 1. Measurement = Reading Level + Correct Factor

- 2. If Peak Result complies with AV and QP limit, AV and QP Result are deemed to comply with AV limit.
- 3. All 3 polarizations (Horizontal, Face-on and Face-off) of the loop antenna had been tested, but only the worst data recorded in the report.



150 kHz ~ 490 kHz



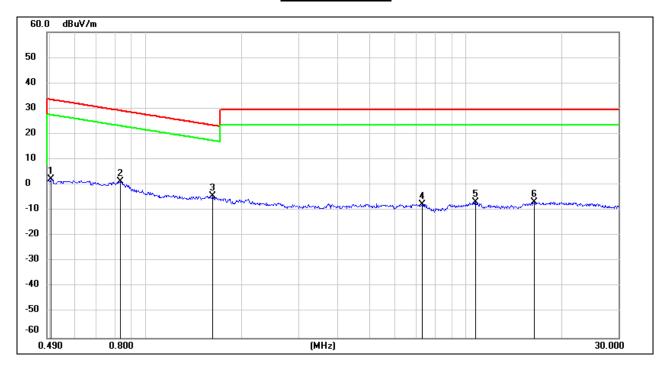
No.	Frequency	Reading	Correct	FCC	FCC	ISED	ISED	Margin	Remark
				Result	Limit	Result	Limit		
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dBuA/m)	(dBuA/m)	(dB)	
1	0.1554	75.27	-101.65	-26.38	23.77	-77.88	-27.73	-50.15	peak
2	0.2053	66.79	-101.73	-34.94	21.35	-86.44	-30.15	-56.29	peak
3	0.2190	66.77	-101.75	-34.98	20.79	-86.48	-30.71	-55.77	peak
4	0.2837	62.22	-101.83	-39.61	18.54	-91.11	-32.96	-58.15	peak
5	0.3163	61.70	-101.87	-40.17	17.6	-91.67	-33.90	-57.77	peak
6	0.3881	58.40	-101.95	-43.55	15.82	-95.05	-35.68	-59.37	peak

Note: 1. Measurement = Reading Level + Correct Factor

- 2. If Peak Result complies with AV and QP limit, AV and QP Result are deemed to comply with AV limit.
- 3. All 3 polarizations (Horizontal, Face-on and Face-off) of the loop antenna had been tested, but only the worst data recorded in the report.



490 kHz ~ 30 MHz



No.	Frequency	Reading	Correct	FCC	FCC	ISED	ISED	Margin	Remark
				Result	Limit	Result	Limit		
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dBuA/m)	(dBuA/m)	(dB)	
1	0.5039	64.44	-62.07	2.37	33.56	-49.13	-17.94	-31.19	peak
2	0.8296	63.44	-62.17	1.27	29.23	-50.23	-22.27	-27.96	peak
3	1.6149	57.62	-62.00	-4.38	23.44	-55.88	-28.06	-27.82	peak
4	7.3361	53.58	-61.17	-7.59	29.54	-59.09	-21.96	-37.13	peak
5	10.7299	53.98	-60.83	-6.85	29.54	-58.35	-21.96	-36.39	peak
6	16.3959	54.17	-60.96	-6.79	29.54	-58.29	-21.96	-36.33	peak

Note: 1. Measurement = Reading Level + Correct Factor

- 2. If Peak Result complies with AV and QP limit, AV and QP Result are deemed to comply with AV limit.
- 3. All 3 polarizations (Horizontal, Face-on and Face-off) of the loop antenna had been tested, but only the worst data recorded in the report.

Note: All the modes had been tested, but only the worst data was recorded in the report.



9. AC POWER LINE CONDUCTED EMISSIONS

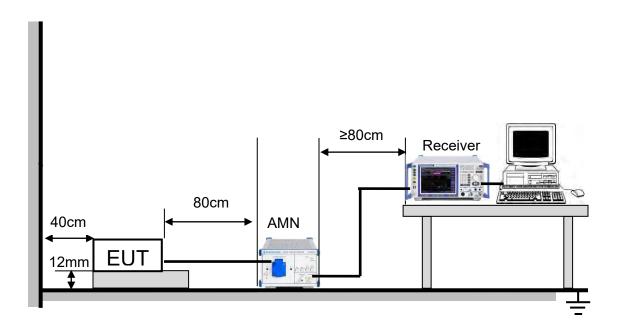
LIMITS

Please refer to CFR 47 FCC §15.207 (a) and ISED RSS-Gen Clause 8.8

FREQUENCY (MHz)	Quasi-peak	Average
0.15 -0.5	66 - 56 *	56 - 46 *
0.50 -5.0	56.00	46.00
5.0 -30.0	60.00	50.00

TEST SETUP AND PROCEDURE

Refer to ANSI C63.10-2013 clause 6.2.



The EUT is put on a table of non-conducting material that is 12 mm high. The vertical conducting wall of shielding is located 40 cm to the rear of the EUT. The power line of the EUT is connected to the AC mains through a Artificial Mains Network (A.M.N.). A EMI Measurement Receiver (R&S Test Receiver ESR3) is used to test the emissions from both sides of AC line. According to the requirements in Section 6.2 of ANSI C63.10-2013. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30 MHz using CISPR Quasi-Peak and average detector mode. The bandwidth of EMI test receiver is set at 9 kHz.

The arrangement of the equipment is installed to meet the standards and operating in a manner, which tends to maximize its emission characteristics in a normal application.



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TEST ENVIRONMENT

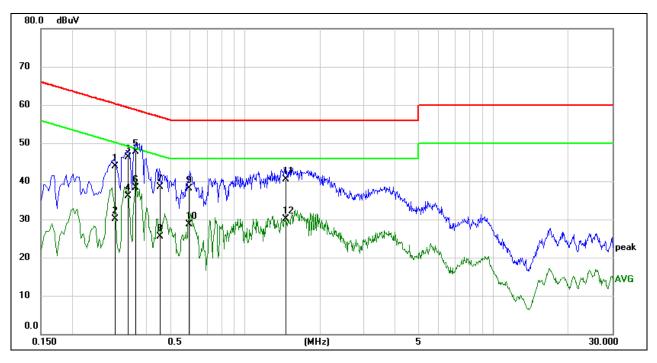
Temperature	23.9 °C	Relative Humidity	66.8 %
Atmosphere Pressure	101 kPa	Test Voltage	AC120 V,60 Hz

RESULTS



9.1. 802.11b SISO MODE

LINE N RESULTS (LOW CHANNEL, WORST-CASE CONFIGURATION)



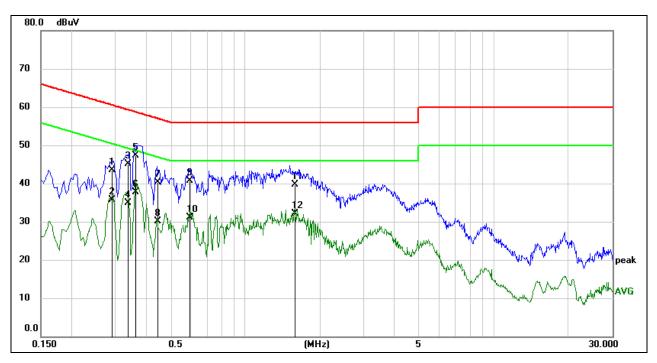
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dB)	
1	0.2992	34.28	9.59	43.87	60.27	-16.40	QP
2	0.2992	20.50	9.59	30.09	50.27	-20.18	AVG
3	0.3379	36.73	9.59	46.32	59.25	-12.93	QP
4	0.3379	26.46	9.59	36.05	49.25	-13.20	AVG
5	0.3605	38.10	9.59	47.69	58.72	-11.03	QP
6	0.3605	28.80	9.59	38.39	48.72	-10.33	AVG
7	0.4518	28.89	9.60	38.49	56.84	-18.35	QP
8	0.4518	15.93	9.60	25.53	46.84	-21.31	AVG
9	0.5913	28.57	9.60	38.17	56.00	-17.83	QP
10	0.5913	19.08	9.60	28.68	46.00	-17.32	AVG
11	1.4427	30.92	9.62	40.54	56.00	-15.46	QP
12	1.4427	20.46	9.62	30.08	46.00	-15.92	AVG

Note: 1. Result = Reading +Correct Factor.

- 2. If QP Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Test setup: RBW: 200 Hz (9 kHz ~ 150 kHz), 9 kHz (150 kHz ~ 30 MHz).
- 4. Step size: 80 Hz (0.009 MHz \sim 0.15 MHz), 4 kHz (0.15 MHz \sim 30 MHz), Scan time: auto.



LINE L RESULTS (LOW CHANNEL, WORST-CASE CONFIGURATION)



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dB)	
1	0.2904	33.90	9.59	43.49	60.51	-17.02	QP
2	0.2904	26.12	9.59	35.71	50.51	-14.80	AVG
3	0.3376	35.45	9.59	45.04	59.26	-14.22	QP
4	0.3376	25.38	9.59	34.97	49.26	-14.29	AVG
5	0.3599	37.77	9.59	47.36	58.73	-11.37	QP
6	0.3599	28.13	9.59	37.72	48.73	-11.01	AVG
7	0.4432	30.80	9.60	40.40	57.00	-16.60	QP
8	0.4432	20.43	9.60	30.03	47.00	-16.97	AVG
9	0.5960	31.13	9.60	40.73	56.00	-15.27	QP
10	0.5960	21.47	9.60	31.07	46.00	-14.93	AVG
11	1.5774	30.16	9.62	39.78	56.00	-16.22	QP
12	1.5774	22.40	9.62	32.02	46.00	-13.98	AVG

Note: 1. Result = Reading +Correct Factor.

- 2. If QP Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Test setup: RBW: 200 Hz (9 kHz ~ 150 kHz), 9 kHz (150 kHz ~ 30 MHz).
- 4. Step size: 80 Hz (0.009 MHz \sim 0.15 MHz), 4 kHz (0.15 MHz \sim 30 MHz), Scan time: auto.

Note: All the modes had been tested, but only the worst data was recorded in the report.

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10. ANTENNA REQUIREMENTS

APPLICABLE REQUIREMENTS

Please refer to FCC §15.203

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

Please refer to FCC §15.247(b)(4)

The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

RESULTS

Complies



11. Appendix A

11.1. Appendix A: DTS Bandwidth 11.1.1. Test Result

Test Mode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
		2412	10.120	2406.960	2417.080	0.5	PASS
11B	Ant1	2437	10.160	2431.960	2442.120	0.5	PASS
		2462	9.640	2457.440	2467.080	0.5	PASS
		2412	16.400	2403.840	2420.240	0.5	PASS
11G	Ant1	2437	16.400	2428.840	2445.240	0.5	PASS
		2462	16.400	2453.840	2470.240	0.5	PASS
		2412	17.680	2403.200	2420.880	0.5	PASS
11N20SISO	Ant1	2437	17.640	2428.200	2445.840	0.5	PASS
		2462	17.640	2453.200	2470.840	0.5	PASS
		2422	35.920	2404.320	2440.240	0.5	PASS
11N40SISO	Ant1	2437	35.840	2419.400	2455.240	0.5	PASS
		2452	35.920	2434.080	2470.000	0.5	PASS



11.1.2. Test Graphs

















11.2. Appendix B: Occupied Channel Bandwidth 11.2.1. Test Result

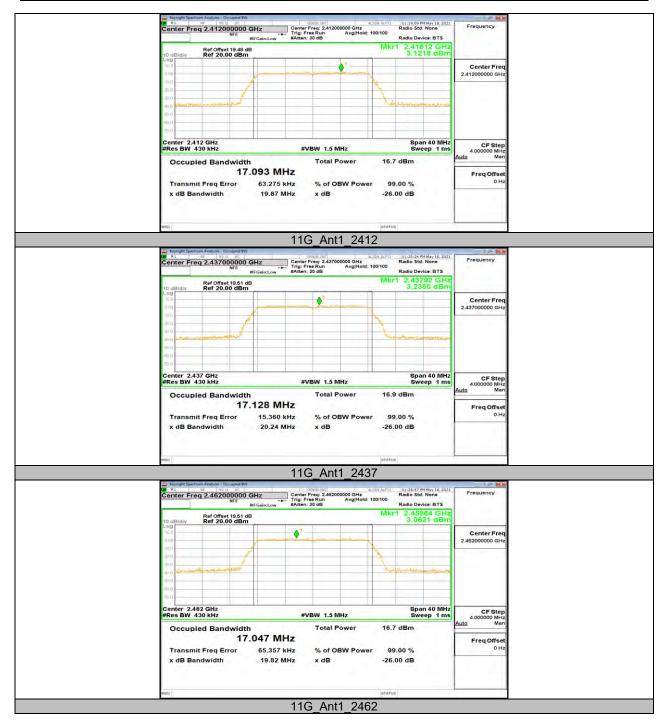
Test Mode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Verdict
		2412	14.334	2404.920	2419.254	PASS
11B	Ant1	2437	14.360	2429.900	2444.260	PASS
		2462	14.333	2454.876	2469.209	PASS
	Ant1	2412	17.093	2403.517	2420.610	PASS
11G		2437	17.128	2428.451	2445.579	PASS
		2462	17.047	2453.542	2470.589	PASS
		2412	17.971	2403.072	2421.043	PASS
11N20SISO	Ant1	2437	18.009	2428.041	2446.050	PASS
		2462	17.963	2453.070	2471.033	PASS
11N40SISO	Ant1	2422	36.348	2403.894	2440.242	PASS
		2437	36.462	2418.778	2455.240	PASS
		2452	36 345	2433 964	2470 309	PASS



11.2.2. Test Graphs

















11.3. Appendix C: Maximum AVG conducted output power 11.3.1. Test Result

Test Mode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
		2412	11.63	<=30	PASS
11B	Ant1	2437	11.49	<=30	PASS
		2462	11.57	<=30	PASS
	Ant1	2412	10.58	<=30	PASS
11G		2437	10.75	<=30	PASS
		2462	10.68	<=30	PASS
	Ant1	2412	10.63	<=30	PASS
11N20SISO		2437	10.86	<=30	PASS
		2462	10.69	<=30	PASS
11N40SISO	Ant1	2422	10.25	<=30	PASS
		2437	10.07	<=30	PASS
		2452	10.19	<=30	PASS

Note: 1. Conducted Power=Meas. Level+ Correction Factor

^{2.} The Duty Cycle Factor (refer to section 7.1) had already compensated to the test data.

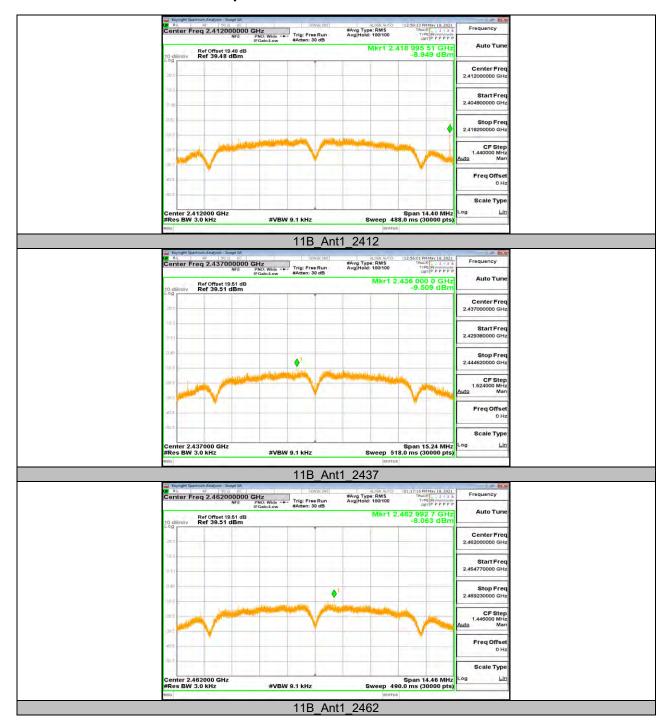


11.4. Appendix D: Maximum power spectral density 11.4.1. Test Result

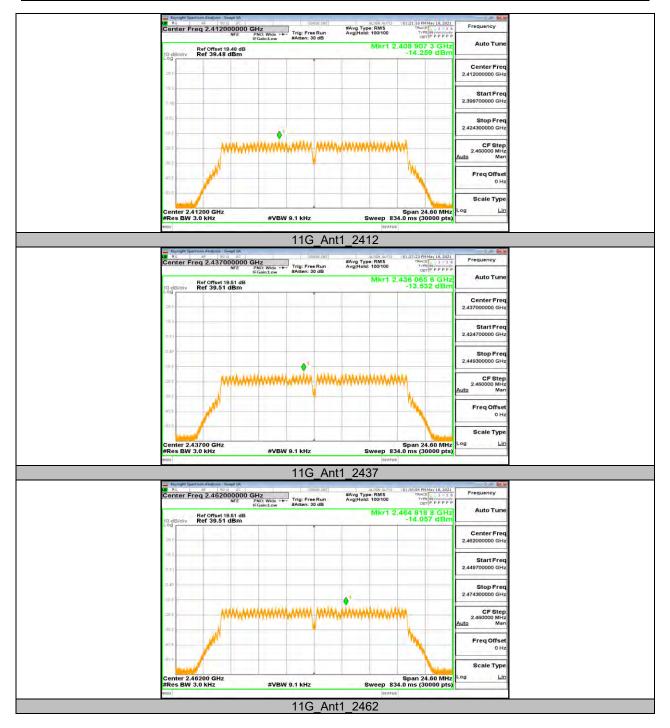
Test Mode	Antenna	Channel	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
		2412	-8.95	<=8	PASS
11B	Ant1	2437	-9.51	<=8	PASS
		2462	-8.06	<=8	PASS
	Ant1	2412	-14.26	<=8	PASS
11G		2437	-13.53	<=8	PASS
		2462	-14.06	<=8	PASS
	Ant1	2412	-13.94	<=8	PASS
11N20SISO		2437	-14.24	<=8	PASS
		2462	-13.79	<=8	PASS
11N40SISO	Ant1	2422	-17.45	<=8	PASS
		2437	-16.69	<=8	PASS
		2452	-17.21	<=8	PASS



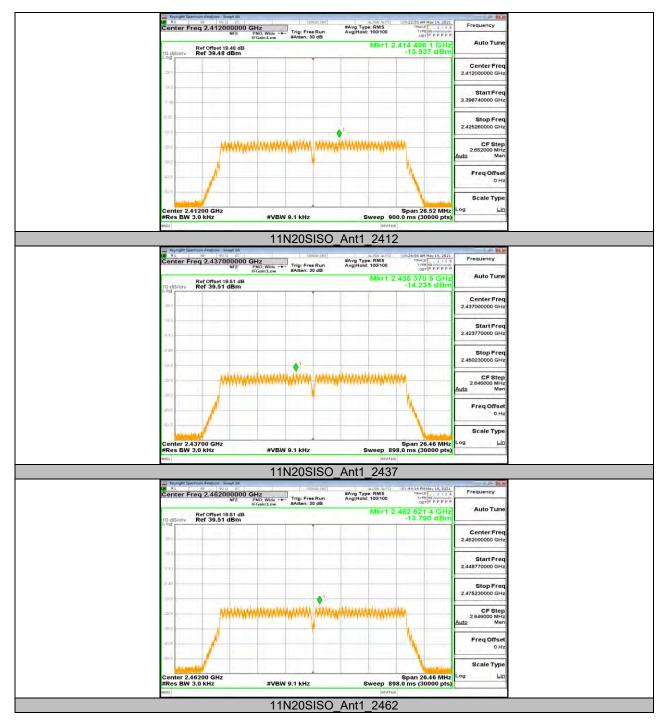
11.4.2. Test Graphs



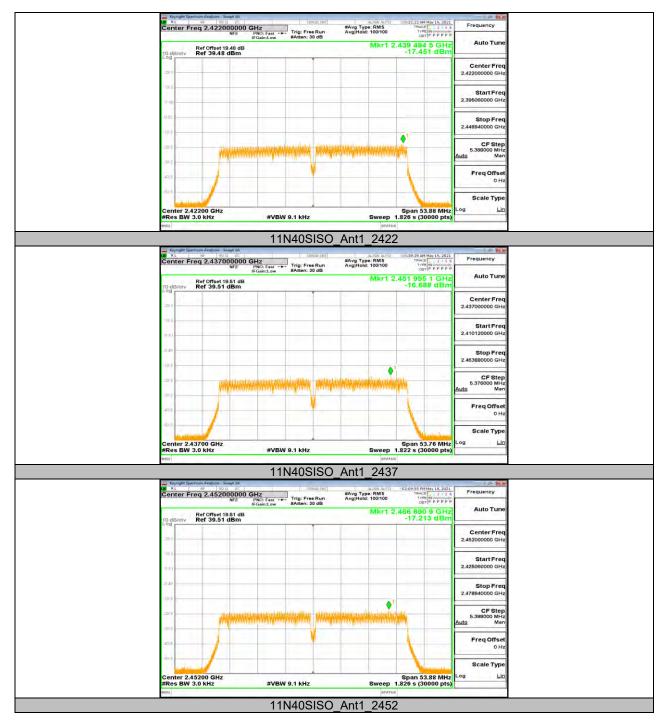














11.5. Appendix E: Band edge measurements 11.5.1. Test Result

Test Mode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	2.65	-40.73	<=-27.35	PASS
ПБ	Anti	High	2462	2.39	-40.99	<=-27.61	PASS
11G	11G Ant1	Low	2412	-0.47	-41.14	<=-30.47	PASS
116	Anti	High	2462	-0.78	-40.68	<=-30.78	PASS
1111000100	A n+1	Low	2412	-0.66	-40.34	<=-30.66	PASS
11N20SISO Ant1	Anti	High	2462	-0.79	-41.24	<=-30.79	PASS
441400100	A n+1	Low	2422	-3.44	-40.84	<=-33.44	PASS
11N40SISO	Ant1	High	2452	-3.81	-40.23	<=-33.81	PASS



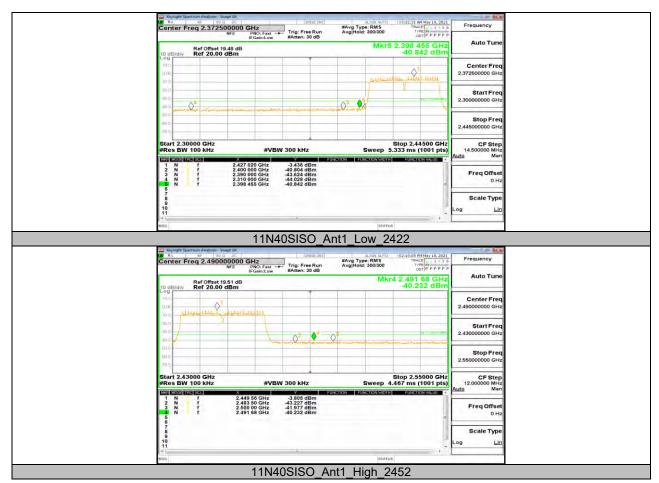
11.5.2. Test Graphs











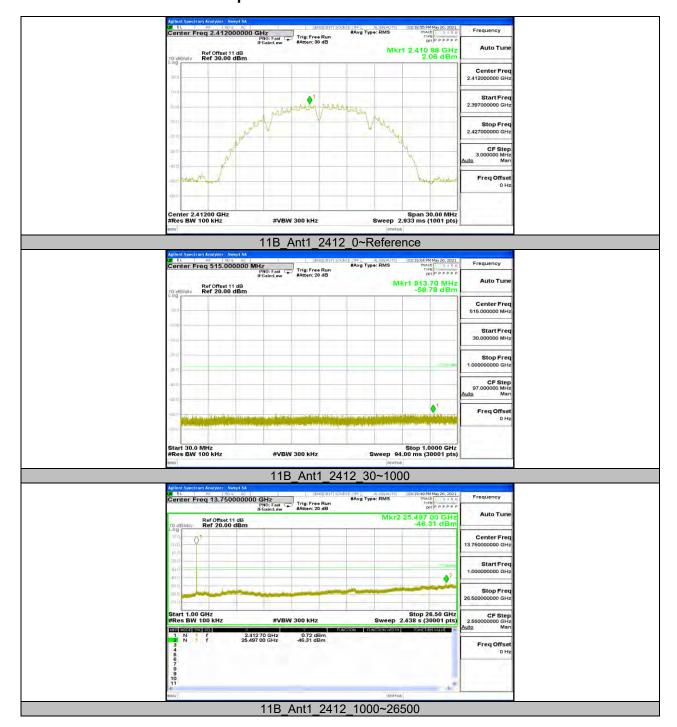


11.6. Appendix F: Conducted Spurious Emission 11.6.1. Test Result

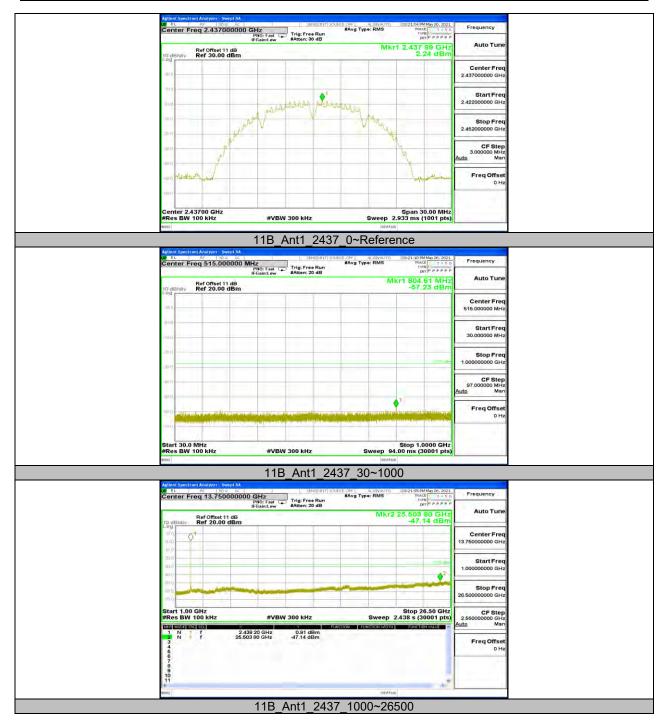
Test Mode	Antenna	Channel	Freq Range [Mhz]	Result [dBm]	Limit [dBm]	Verdict
			Reference	2.06		PASS
		2412	30~1000	-58.78	<=-27.94	PASS
			1000~26500	-46.31	<=-27.94	PASS
11B			Reference	2.23		PASS
	Ant1	2437	30~1000	-57.23	<=-27.76	PASS
			1000~26500	-47.14	<=-27.76	PASS
			Reference	2.24		PASS
		2462	30~1000	-58.16	<=-27.77	PASS
			1000~26500	-47.11	<=-27.77	PASS
			Reference	-0.57		PASS
		2412	30~1000	-57.41	<=-30.58	PASS
			1000~26500	-46.5	<=-30.58	PASS
			Reference	-0.62		PASS
11G	Ant1	2437	30~1000	-54.82	<=-30.62	PASS
			1000~26500	-47.82	<=-30.62	PASS
		2462	Reference	-1.05		PASS
			30~1000	-58.55	<=-31.05	PASS
			1000~26500	-47.41	<=-31.05	PASS
	Ant1	2412	Reference	1.17		PASS
			30~1000	-58.44	<=-28.83	PASS
			1000~26500	-47.09	<=-28.83	PASS
			Reference	2.09		PASS
11N20SISO		2437	30~1000	-57.71	<=-27.91	PASS
			1000~26500	-47.7	<=-27.91	PASS
			Reference	1.56		PASS
		2462	30~1000	-57.3	<=-28.44	PASS
			1000~26500	-46.12	<=-28.44	PASS
			Reference	0.13		PASS
		2422	30~1000	-58.2	<=-29.87	PASS
			1000~26500	-47.1	<=-29.87	PASS
			Reference	0.32		PASS
11N40SISO	Ant1	2437	30~1000	-58.46	<=-29.68	PASS
			1000~26500	-46.92	<=-29.68	PASS
			Reference	0.13		PASS
		2452	30~1000	-57.62	<=-29.87	PASS
			1000~26500	-46.34	<=-29.87	PASS



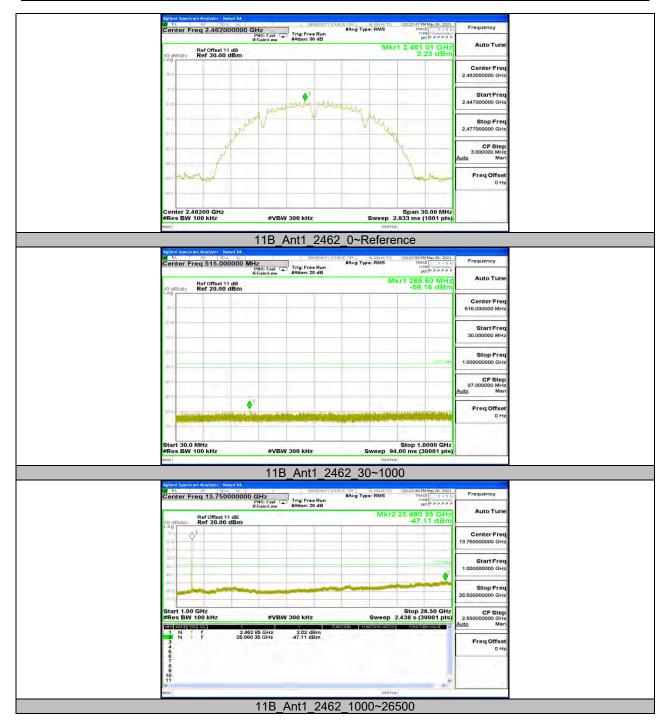
11.6.2. Test Graphs



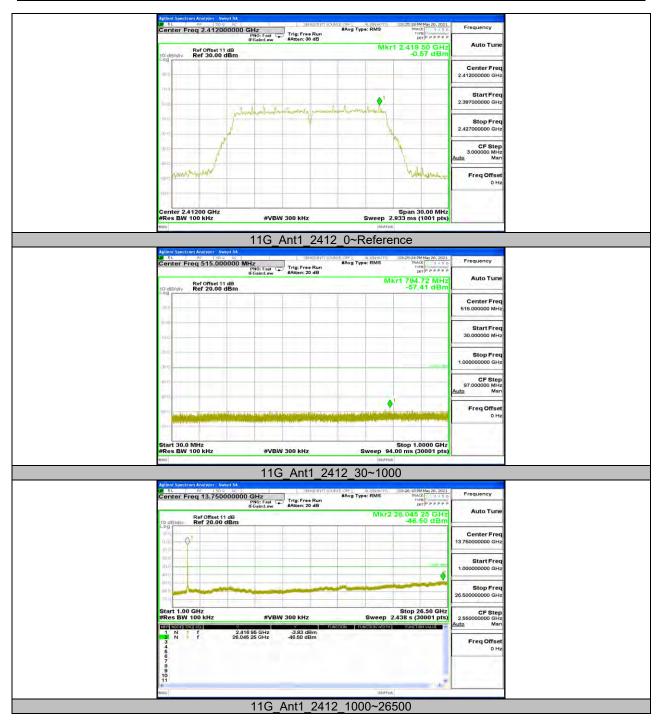




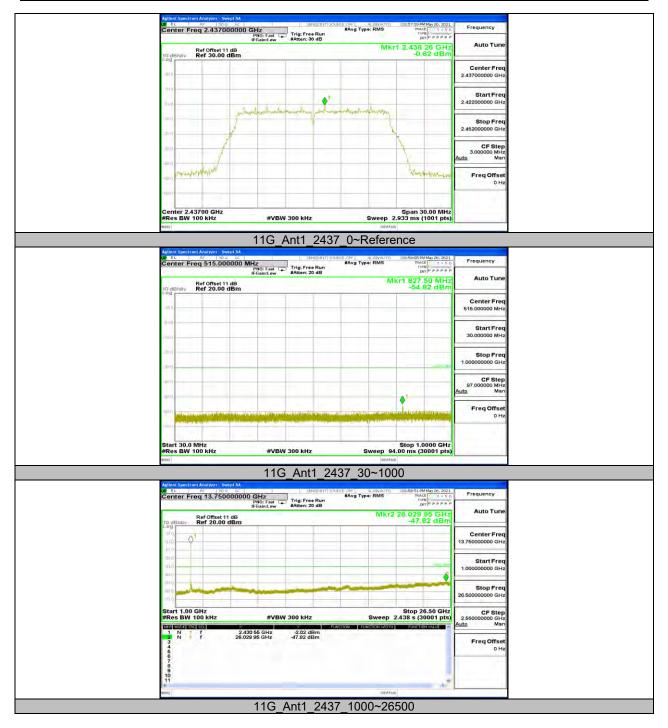




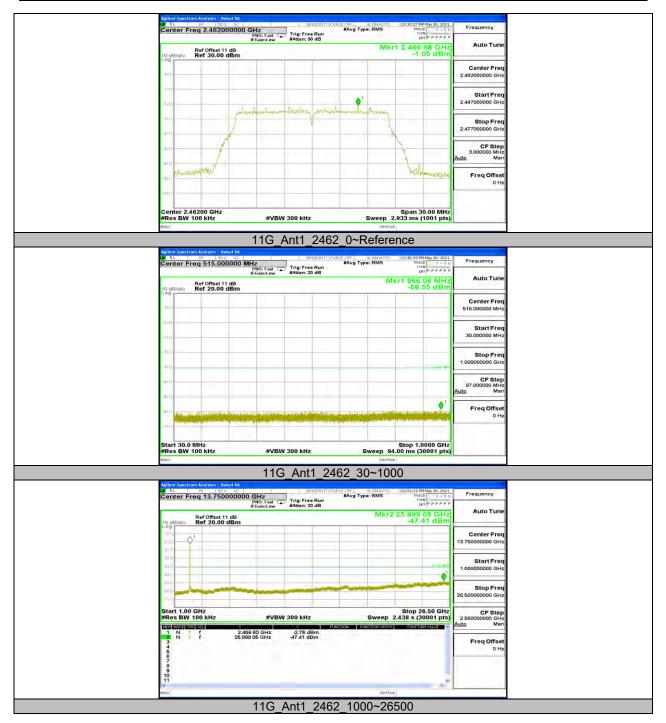




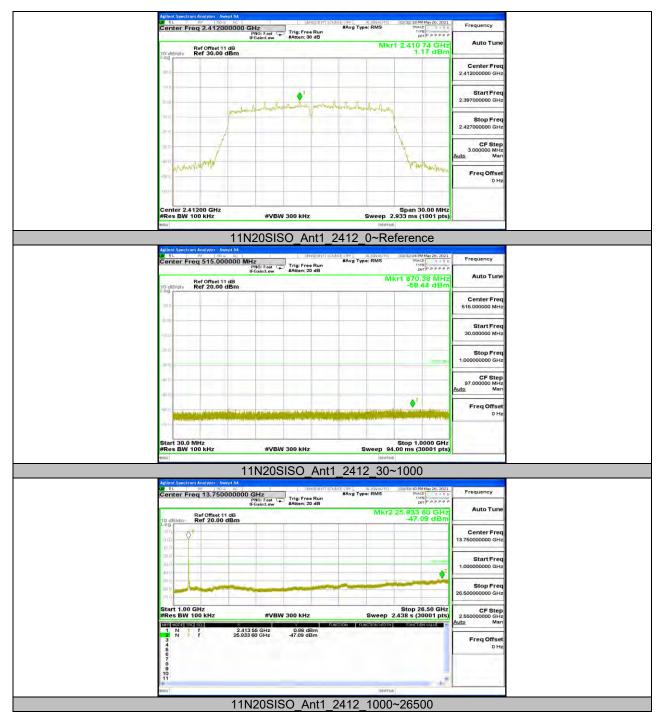




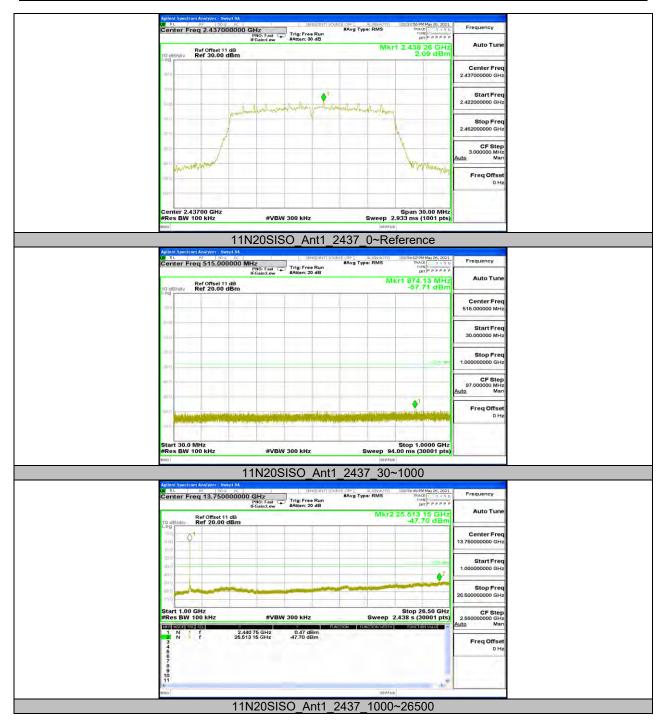




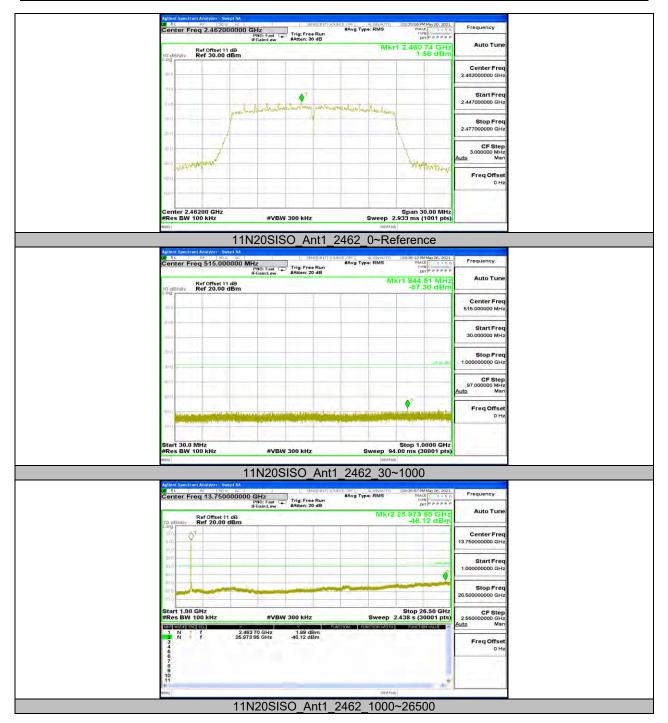




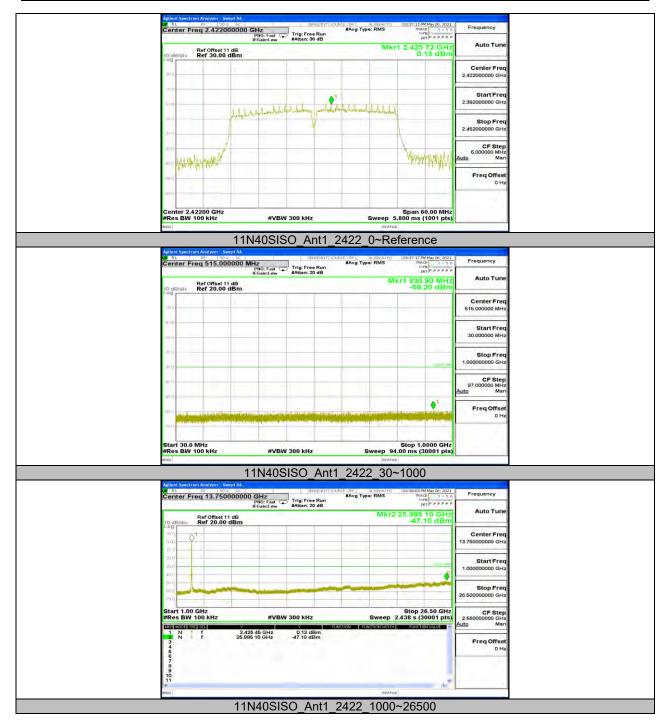




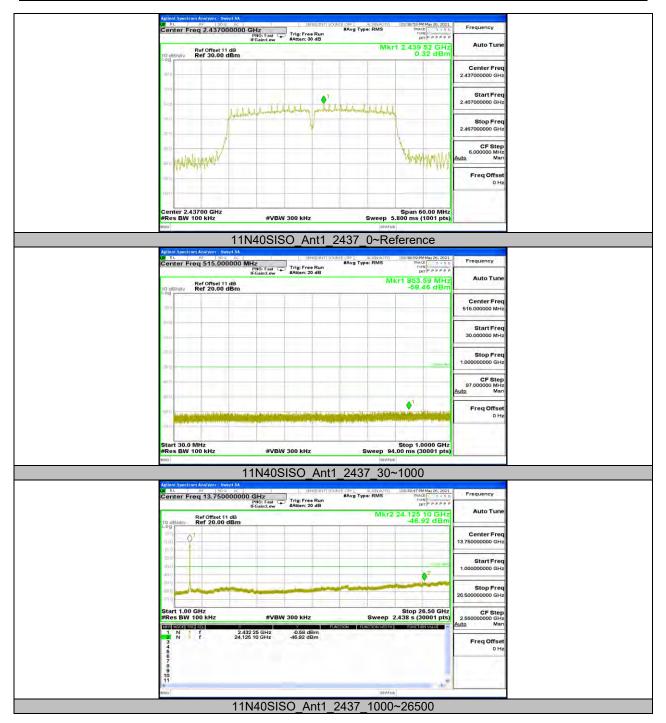




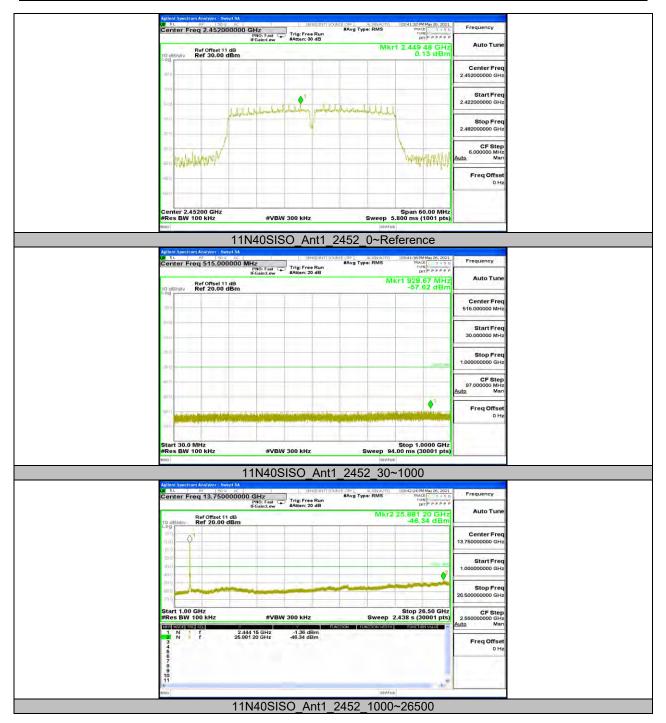














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11.7. Appendix G: Duty Cycle 11.7.1. Test Result

Mode	On Time (msec)	Period (msec)	Duty Cycle x (Linear)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	1/T Minimum VBW (kHz)	Final setting For VBW (kHz)
11B	8.38	8.41	0.9964	99.64	0.02	0.12	0.01
11G	1.39	1.43	0.9720	97.20	0.12	0.72	1
11N20SISO	1.30	1.34	0.9701	97.01	0.13	0.77	1
11N40SISO	0.64	0.68	0.9412	94.12	0.26	1.56	2

Note:

Duty Cycle Correction Factor=10log (1/x).

Where: x is Duty Cycle (Linear)

Where: T is On Time

If that calculated VBW is not available on the analyzer then the next higher value should be

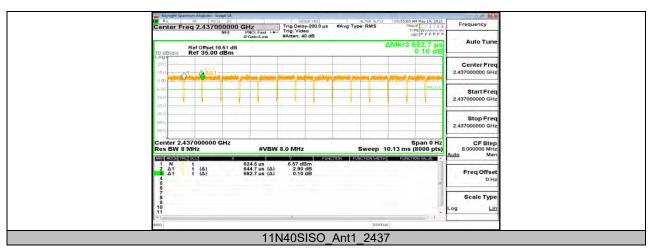
used.



11.7.2. Test Graphs







END OF REPORT