

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

CERTIFICATION TEST REPORT

For

Soundbar speaker

MODEL NUMBER FOR FCC: B95/37,B95/yy,B97/37,B97/yy (yy=00-99 or NiL ,for country code)

MODEL NUMBER FOR IC: B95/37, B97/37

FCC ID: 2AR2SB97

IC: 24589-B97

REPORT NUMBER: 4789548706-3

ISSUE DATE: September 1, 2020

Prepared for

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REPORT NO.: 4789548706-3

Page 2 of 154

Revision History

Rev.	Issue Date	Revisions	Revised By
V0	09/01/2020	Initial Issue	



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

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.



TABLE OF CONTENTS

1. A	TESTATION OF TEST RESULTS	6
2. TE	ST METHODOLOGY	7
3. FA	CILITIES AND ACCREDITATION	7
4. C	ALIBRATION AND UNCERTAINTY	8
4.1.	MEASURING INSTRUMENT CALIBRATION	8
4.2.	MEASUREMENT UNCERTAINTY	8
5. EC	QUIPMENT UNDER TEST	9
5.1.	DESCRIPTION OF EUT	9
5.2.	CHANNEL LIST	10
5.3.	MAXIMUM OUTPUT POWER	10
5.4.	TEST CHANNEL CONFIGURATION	10
5.5.	THE WORSE CASE POWER SETTING PARAMETER	11
5.6.	THE WORSE CASE CONFIGURATIONS	11
5.7.	DESCRIPTION OF AVAILABLE ANTENNAS	12
5.8.	DESCRIPTION OF TEST SETUP	13
6. MI	EASURING INSTRUMENT AND SOFTWARE USED	14
7. Al	ITENNA PORT TEST RESULTS	16
7.1.	ON TIME AND DUTY CYCLE	16
7.2.	6 dB DTS BANDWIDTH AND 99 % OCCUPIED BANDWIDTH	17
7.3.	CONDUCTED OUTPUT POWER	19
7.4.	POWER SPECTRAL DENSITY	20
7.5.	CONDUCTED BANDEDGE AND SPURIOUS EMISSIONS	22
8. R	ADIATED TEST RESULTS	24
8.1.	RESTRICTED BANDEDGE	30
_	I.1. 802.11b SISO MODE	
_	I.2. 802.11g SISO MODE I.3. 802.11n HT20 MODE	
	1.4. 802.11n HT40 MODE	
8.2.	,	
_	2.1. 802.11b SISO MODE	
	2.3. 802.11n HT20 MODE	59
8.2		
	2.4. 802.11n HT40 MODE	65
8.3.	2.4. 802.11n HT40 MODE	71



	8.3.2.	802.11g SISO M	ODE		 77
	8.3.3.				
	8.3.4.	802.11n HT40 M	IODE		 89
	8.5. SPL	JRIOUS EMISSIC	DNS (18 GHz ~ 26	GHz)	 95
	8.5.1.	802.11b MODE.			 95
	8.6. SPL	JRIOUS EMISSIO	DNS (30 MHz ~ 1	GHz)	 97
	8.6.1.	802.11b MODE.			 97
	87 SPI	IRIOUS FMISSIO	ONS BELOW 30 M	1Hz	 99
•					
9.	AC POV	ER LINE COND	UCTED EMISSIO	NS	 102
	9.1. 802	.11b MODE			 103
40	A NITE	NINA DEGLUDEN	IENTO		405
10					
	APPENDI)	(A: DUTY CYCL	E		 106
	APPENDI)	(B: DTS BANDW	/IDTH		 109
	APPENDI)	C: OCCUPIED	CHANNEL BAND	NIDTH	 116
	APPENDI)	CD: CONDUCTE	D AVERAEG OUT	TPUT POWER	 123
	APPENDI)	(E: POWER AVE	ERAGE SPECTRA	L DENSITY	 124



REPORT NO.: 4789548706-3

Page 6 of 154

1. ATTESTATION OF TEST RESULTS

Applicant Information

Company Name: MMD Hong Kong Holding Limited

Address: Units 1006-1007, 10th Floor, C-Bons International Center, 108

Wai Yip Street, Kwun Tong, Kowloon, Hong Kong

Manufacturer Information

Company Name: MMD Hong Kong Holding Limited

Address: Units 1006-1007, 10th Floor, C-Bons International Center, 108

Wai Yip Street, Kwun Tong, Kowloon, Hong Kong

Factory Information

Company Name: Eastech Electronics (Huiyang) Co.,Ltd.

Address: XINXU,HUIYANG,HUIZHOU CITY GUANGDONG CHINA

EUT Information

EUT Name: Soundbar speaker

Model for FCC: B95/37,B95/yy,B97/37,B97/yy (yy=00-99 or NiL ,for country code)

Model for IC: B95/37,B97/37

Brand: PHILIPS or

Serial Model: Please refer to clause 5.1. Description of EUT

Sample Received Date: July 23, 2020

Sample Status: Normal Sample ID: 3230144

Date of Tested: July 25, 2020~August 28, 2020

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				

Prepared By: Checked By:

Mick Zhang

Shannelus

Mick Zhang Project Engineer Approved By: Shawn Wen Laboratory Leader

Stephen Guo

Laboratory Manager

REPORT NO.: 4789548706-3 Page 7 of 154

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 Declaration of Conformity (DoC) and Certification
	rules
	ISED (Company No.: 21320)
Accreditation	
Certificate	UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch.
Certificate	has been registered and fully described in a report filed with ISED.
	The Company Number is 21320.
	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.

REPORT NO.: 4789548706-3 Page 8 of 154

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)		
Note: This uncortainty represents an expanded uncortainty 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

Test Model B97/37 Model for FCC B95/37,B95/yy,B97/37,B97/yy (yy=00-99 or NiL ,for country code) Model for IC B95/37, B97/37 B95/yy (yy=00-99 or NiL ,for country code) have the same technical construction including circuit diagram, PCB Layout, components and component layout, all electrical construction and mechanical construction with B95/37. The difference lies only the model number. B97/yy (yy=00-99 or NiL ,for country code) have the same technical construction with B95/37. The difference lies only the model number. B97/yy (yy=00-99 or NiL ,for country code) have the same technical construction including circuit diagram, PCB Layout, components and component layout, all electrical construction and mechanical construction with B97/37. The difference lies only the model number. The difference between B95/37 with B97/37 is: B97/37 contains Sound bar: BT+2.4Gwifi+ 5G wifi (band 1+ band4)+ 5.8G wireless Surround (right): 5.8G wireless(only for receiving) B95/37 contains Sound bar: BT+2.4Gwifi+ 5G wifi (band 1+ band4)+ 5.8G wireless Radio Technology IEEE 802.11b/g/n HT20/n HT40 Operation frequency IEEE 802.11b: 2412MHz—2462MHz IEEE 802.11b: 2412MHz—2462MHz IEEE 802.11n HT40: 2422MHz—2452MHz IEEE 802.11n HT40: 2422MHz—2452MHz IEEE 802.11b: DSSS (CCK) IEEE 802.11c OFDM (64QAM, 16QAM, QPSK, BPSK) IEEE 802.11n HT40: OFDM (64QAM, 16QAM, QPSK, BPSK)	EUT Name	Soundbar speaker				
Model for FCC B95/37,B95/yy,B97/37,B97/yy (yy=00-99 or NiL ,for country code) B95/37, B97/37 B95/yy (yy=00-99 or NiL ,for country code) have the same technical construction including circuit diagram, PCB Layout, components and component layout, all electrical construction and mechanical construction with B95/37. The difference lies only the model number. B97/yy (yy=00-99 or NiL ,for country code) have the same technical construction including circuit diagram, PCB Layout, components and component layout, all electrical construction and mechanical construction with B97/37. The difference lies only the model number. The difference between B95/37 with B97/37 is: B97/37 contains Sound bar: BT+2.4Gwifi+ 5G wifi (band 1+ band4)+ 5.8G wireless Surround (right): 5.8G wireless(only for receiving) Surround (left): 5.8G wireless(only for receiving) B95/37 contains Sound bar: BT+2.4Gwifi+ 5G wifi (band 1+ band4)+ 5.8G wireless Radio Technology IEEE 802.11b/g/n HT20/n HT40 Operation frequency IEEE 802.11b: 2412MHz—2462MHz IEEE 802.11b: 12412MHz—2462MHz IEEE 802.11b: DSSS (CCK) IEEE 802.11b: DSSS (CCK) IEEE 802.11b: DSSS (CCK) IEEE 802.11b: DSSS (CCK) IEEE 802.11n HT40: OFDM (64QAM, 16QAM, QPSK, BPSK) IEEE 802.11n HT40: OFDM (64QAM, 16QAM, QPSK, BPSK) IEEE 802.11n HT40: OFDM (64QAM, 16QAM, QPSK, BPSK)	EUT Description	The EUT is a Soundbar.				
Model for IC B95/37, B97/37 B95/yy (yy=00-99 or NiL ,for country code) have the same technical construction including circuit diagram, PCB Layout, components and component layout, all electrical construction and mechanical construction with B95/37. The difference lies only the model number. B97/yy (yy=00-99 or NiL ,for country code) have the same technical construction including circuit diagram, PCB Layout, components and component layout, all electrical construction and mechanical construction with B97/37. The difference lies only the model number. The difference between B95/37 with B97/37 is: B97/37 contains Sound bar: BT+2.4Gwifi+ 5G wifi (band 1+ band4)+ 5.8G wireless Surround (right): 5.8G wireless(only for receiving) Surround (left): 5.8G wireless(only for receiving) B95/37 contains Sound bar: BT+2.4Gwifi+ 5G wifi (band 1+ band4)+ 5.8G wireless Radio Technology IEEE 802.11b/g/n HT20/n HT40 Operation frequency IEEE 802.11b: 2412MHz—2462MHz IEEE 802.11n HT20: 2412MHz—2462MHz IEEE 802.11n HT40: 2422MHz—2462MHz IEEE 802.11n HT40: 2422MHz—2452MHz IEEE 802.11n HT40: OFDM (64QAM, 16QAM, QPSK, BPSK)	Test Model	B97/37				
B95/yy (yy=00-99 or NiL ,for country code) have the same technical construction including circuit diagram, PCB Layout, components and component layout, all electrical construction and mechanical construction with B95/37. The difference lies only the model number. B97/yy (yy=00-99 or NiL ,for country code) have the same technical construction including circuit diagram, PCB Layout, components and component layout, all electrical construction and mechanical construction with B97/37. The difference lies only the model number. The difference between B95/37 with B97/37 is: B97/37 contains Sound bar: BT+2.4Gwifi+ 5G wifi (band 1+ band4)+ 5.8G wireless Surround (right): 5.8G wireless(only for receiving) Surround (left): 5.8G wireless(only for receiving) B95/37 contains Sound bar: BT+2.4Gwifi+ 5G wifi (band 1+ band4)+ 5.8G wireless Radio Technology IEEE 802.11b/g/n HT20/n HT40 Operation frequency IEEE 802.11b: 2412MHz—2462MHz IEEE 802.11n HT20: 2412MHz—2462MHz IEEE 802.11n HT40: 2422MHz—2452MHz IEEE 802.11n HT40: 2422MHz—2452MHz IEEE 802.11n HT40: OFDM (64QAM, 16QAM, QPSK, BPSK)	Model for FCC	B95/37,B95/yy,B97/37,B97/yy (yy=00-99 or NiL ,for country code)				
technical construction including circuit diagram, PCB Layout, components and component layout, all electrical construction and mechanical construction with B95/37. The difference lies only the model number. B97/yy (yy=00-99 or NiL ,for country code) have the same technical construction including circuit diagram, PCB Layout, components and component layout, all electrical construction and mechanical construction with B97/37. The difference lies only the model number. The difference between B95/37 with B97/37 is: B97/37 contains Sound bar: BT+2.4Gwifi+ 5G wifi (band 1+ band4)+ 5.8G wireless Surround (right): 5.8G wireless(only for receiving) B95/37 contains Sound bar: BT+2.4Gwifi+ 5G wifi (band 1+ band4)+ 5.8G wireless Radio Technology IEEE 802.11b/g/n HT20/n HT40 IEEE 802.11b/g/n HT20/n HT40 IEEE 802.11p: 2412MHz—2462MHz IEEE 802.11n HT20: 2412MHz—2462MHz IEEE 802.11n HT40: 2422MHz—2452MHz IEEE 802.11n HT40: 2422MHz—2452MHz IEEE 802.11n HT40: OFDM (64QAM, 16QAM, QPSK, BPSK)	Model for IC	B95/37, B97/37				
IEEE 802.11b: 2412MHz—2462MHz	Model Difference	B95/yy (yy=00-99 or NiL ,for country code) have the same technical construction including circuit diagram, PCB Layout, components and component layout, all electrical construction and mechanical construction with B95/37. The difference lies only the model number. B97/yy (yy=00-99 or NiL ,for country code) have the same technical construction including circuit diagram, PCB Layout, components and component layout, all electrical construction and mechanical construction with B97/37. The difference lies only the model number. The difference between B95/37 with B97/37 is: B97/37 contains Sound bar: BT+2.4Gwifi+ 5G wifi (band 1+ band4)+ 5.8G wireless Surround (right): 5.8G wireless(only for receiving) Surround (left): 5.8G wireless(only for receiving) B95/37 contains				
IEEE 802.11g: 2412MHz—2462MHz IEEE 802.11n HT20: 2412MHz—2462MHz IEEE 802.11n HT40: 2422MHz—2452MHz 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) Power Adapter Input AC 120V, 60Hz	Radio Technology	IEEE802.11b/g/n HT20/n HT40				
Modulation 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) Power Adapter Input AC 120V, 60Hz	•	IEEE 802.11g: 2412MHz—2462MHz IEEE 802.11n HT20: 2412MHz—2462MHz				
Power Supply Power Adapter	Modulation	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)				
	Power Supply	Power Adapter Input AC 120V, 60Hz Output DC 19V, 6.32A				

Note: The model B97/37 has the most attachments, so only this model has been tested in this report



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	/

	Channel List for 802.11n (40 MHz)							
С	hannel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	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]	9.69	13.69
g	2412 ~ 2462	1-11[11]	5.86	9.86
n HT20	2412 ~ 2462	1-11[11]	5.61	9.61
n HT40	2422 ~ 2452	3-9[7]	5.61	9.61

5.4. TEST CHANNEL CONFIGURATION

IEEE Std. 802.11	Test Channel Number	Frequency
р	CH 1(Low Channel), CH 6(MID Channel), CH 11(High Channel)	24 12 NITZ, 2437 NITZ, 2402 NITZ
g	CH 1(Low Channel), CH 6(MID Channel), CH 11(High Channel)	2412 MHz, 2437 MHz, 2462 MHz
n HT20	CH 1(Low Channel), CH 6(MID Channel), CH 11(High Channel)	2412 MHz, 2437 MHz, 2462 MHz
n HT40	CH 3(Low Channel), CH 6(MID Channel), CH 9(High Channel)	2422 MHz, 2437 MHz, 2452 MHz



5.5. THE WORSE CASE POWER SETTING PARAMETER

The Worse Case Power Setting Parameter under 2400 ~ 2483.5MHz Band							
Test Softv	vare		RF Tool				
	Transmit		Test Software			lue	
Modulation Mode	Antenna		NCB: 20MF	łz	١	NCB: 40MH	Z
Wiode	Number	CH 1	CH 6	CH 11	CH 3	CH 6	CH 9
802.11b	0	20	20	20			
802.11g	0	27	27	27		/	
802.11n HT20	0	27	27	27			
802.11n HT40	0		1		27	27	27

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



5.7. DESCRIPTION OF AVAILABLE ANTENNAS

Antonno	Frequency	Antonno Tuno	Maximum Antenna Gain
Antenna	(MHz)	Antenna Type	(dBi)
0	2412 ~ 2462	FPC Antenna	4.0

Test Mode	Transmit and Receive Mode	Description
IEEE 802.11b	⊠1TX, 1RX	ANT 0 can be used as transmitting/receiving antenna.
IEEE 802.11g	⊠1TX, 1RX	ANT 0 can be used as transmitting/receiving antenna.
IEEE 802.11n HT20	⊠1TX, 1RX	ANT 0 can be used as transmitting/receiving antenna.
IEEE 802.11n HT40	⊠1TX, 1RX	ANT 0 can be used as transmitting/receiving antenna.

Note: 1. The value of the antenna gain was declared by customer.

^{2.} The customer declared that 2.4G WIFI & 5.8G wireless can transmit simultaneously.



5.8. DESCRIPTION OF TEST SETUP

SUPPORT EQUIPMENT

Item	Equipment	Brand Name	Model Name	Remarks
1	PC	Dell	Vostro 3902	8KNDDB2
2	DVD	Pioneer	DV-410V-K	HGKD001867CN
3	LED TV	INSIGNIA	NS-24DR220NA18	HDMI(ARC)
4	USB TO UART	/	1	1

I/O CABLES

Cable No	Port	Connector Type	Cable Type	Cable Length(m)	Remarks
1	USB	/	/	1.0m	/
2	HDMI	1	Shielded	1.8m	/
3	HDMI	1	Shielded	1.0m	/
4	HDMI	1	Shielded	1.2m	/
5	Audio	1	/	1.0m	1
6	Optical	/	/	1.0m	/

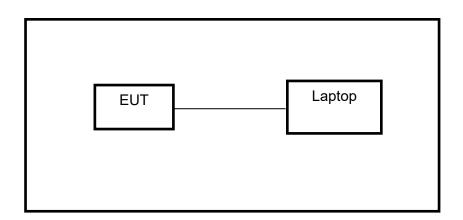
ACCESSORIES

Item	Accessory	Brand Name	Model Name	Description
1	AC Adapter	1	NSA120EC- 19063200	Input: AC 100~240V, 50/60Hz, 2.0A Output: DC 19V, 6.32A 120.0W

TEST SETUP

The EUT can work in engineering mode with a software through a Laptop.

SETUP DIAGRAM FOR TESTS





6. MEASURING INSTRUMENT AND SOFTWARE USED

	Conducted Emissions							
			Ins	trument				
Used	Equipment	Manufacturer	Mode	el No.	Seria	l No.	Last Cal.	Next Cal.
V	EMI Test Receiver	R&S	ES	SR3	101	961	Dec.05,2019	Dec.05,2020
V	Two-Line V- Network	R&S	EN\	/216	101	983	Dec.05,2019	Dec.05,2020
	Software							
Used		Description			Manufa	acturer	Name	Version
$\overline{\mathbf{V}}$	Test Softwa	re for Conduct	ed disturb	pance	Far	ad	EZ-EMC	Ver. UL-3A1
			Radiate	d Emissio	ons			
		, ,	Ins	trument				
Used	Equipment	Manufacturer	Mode	el No.	Seria	l No.	Last Cal.	Next Cal.
V	MXE EMI Receiver	KESIGHT	N90)38A	MY564	00036	Dec.06,2019	Dec.05,2020
V	Hybrid Log Periodic Antenna	TDK	HLP-3003C		130	960	Sep.17,2018	Sep.17,2021
\checkmark	Preamplifier	HP	8447D		2944A	09099	Dec.05,2019	Dec.05,2020
V	EMI Measurement Receiver	R&S	ESR26		101	377	Dec.05,2019	Dec.05,2020
$\overline{\mathbf{V}}$	Horn Antenna	TDK	HRN	-0118	130	939	Sep.17,2018	Sep.17,2021
V	High Gain Horn Antenna	Schwarzbeck	BBHA	\-9170	69	91	Aug.11,2018	Aug.11,2021
V	Preamplifier	TDK	PA-02	2-0118	TRS-		Dec.05,2019	Dec.05,2020
\square	Preamplifier	TDK	PA-	02-2	TRS-		Dec.05,2019	Dec.05,2020
	Loop antenna	Schwarzbeck	15	19B	000	800	Jan.07,2019	Jan.07,2022
\square	Band Reject Filter	Wainwright	WRCJV8-2350- 2400-2483.5- 2533.5-40SS		4	ļ	Dec.05,2019	Dec.05,2020
	High Pass Filter	Wi	WHKX10-2700- 3000- 18000-40SS		2	3	Dec.05,2019	Dec.05,2020
	Software							
Used	De	escription		Manufac	cturer		Name	Version
$\overline{\checkmark}$	Test Software fo	r Radiated dis	turbance	Fara	ıd	E	Z-EMC	Ver. UL-3A1
			Other	instrumen	ts			



REPORT NO.: 4789548706-3 Page 15 of 154

Used	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
	Spectrum Analyzer	Keysight	N9030A	MY55410512	Dec.06,2019	Dec.05,2020
	Power sensor, Power Meter	R&S	OSP120	100921	Dec.06,2019	Dec.06,2020



7. ANTENNA PORT TEST RESULTS

7.1. ON TIME AND DUTY CYCLE

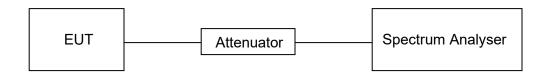
LIMITS

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	25.3 °C	Relative Humidity	61.5 °C
Atmosphere Pressure	101 kPa	Test Voltage	AC 120 V, 60 Hz

RESULTS

Please refer to appendix A.



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 Range (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.

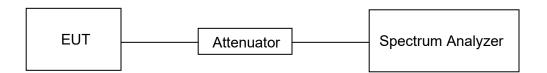
Connect the EUT to the spectrum analyser and use the following settings:

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	25.3 °C	Relative Humidity	61.5 °C
Atmosphere Pressure	101 kPa	Test Voltage	AC 120 V, 60 Hz

RESULTS

Please refer to appendix B & C.



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)	Conducted Output Power	1 watt or 30 dBm	2400-2483.5

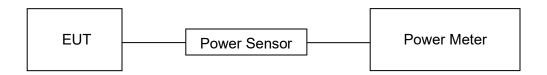
TEST PROCEDURE

Refer to ANSI C63.10-2013 clause 11.9.

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	25.3 °C	Relative Humidity	61.5 °C
Atmosphere Pressure	101 kPa	Test Voltage	AC 120 V, 60 Hz

RESULTS

Please refer to appendix D.



7.4. POWER SPECTRAL DENSITY

LIMITS

CFR 47 FCC Part15 (15.247) Subpart C ISED RSS-247 ISSUE 2			
Section Test Item Limit Frequency Range (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

Refer to ANSI C63.10-2013 clause 11.10.

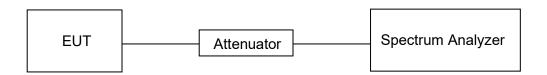
Connect the EUT to the spectrum analyser and use the following settings:

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	25.3 °C	Relative Humidity	61.5 °C
Atmosphere Pressure	101 kPa	Test Voltage	AC 120 V, 60 Hz



REPORT NO.: 4789548706-3

Page 21 of 154

RESULTS

Please refer to appendix E.



7.5. CONDUCTED BANDEDGE AND SPURIOUS EMISSIONS

LIMITS

CFR 47 FCC Part15 (15.247) Subpart C ISED RSS-247 ISSUE 2			
Section Test Item Limit			
CFR 47 FCC §15.247 (d) ISED RSS-247 5.5	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.

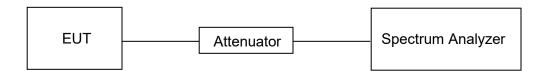
Change the settings for emission level measurement:

Span	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 ANSI C63.10-2013 clause 11.11.



TEST SETUP



TEST ENVIRONMENT

Temperature	25.3 °C	Relative Humidity	61.5 °C
Atmosphere Pressure	101 kPa	Test Voltage	AC 120 V, 60 Hz

RESULTS

Please refer to appendix F & G.



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 (MHz)	Field Strength Limit	Field Stren (dBuV/m)	
(IVII IZ)	(uV/m) at 3 m	Quasi-I	
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	158.7 - 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	
6.215 - 6.218	608 - 614	23.6 - 24.0	
6.26775 - 6.26825	980 - 1427	31.2 - 31.8	
6.31175 - 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	3280 – 3287		
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			

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

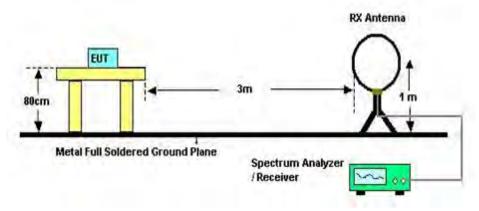
MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
¹ 0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	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: ¹Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz. ²Above 38.6c



TEST SETUP AND PROCEDURE

Below 30 MHz



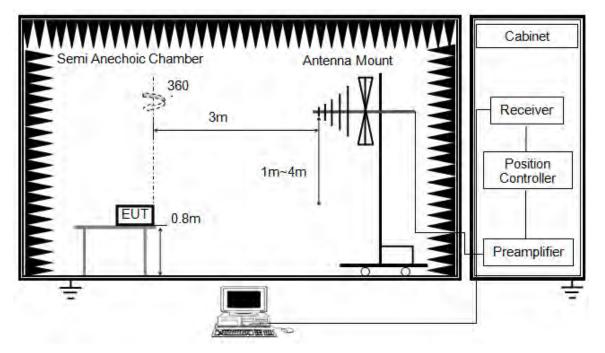
The setting of the spectrum analyser

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 11.11.
- 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 80cm 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 30 m 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.



Below 1 GHz and above 30 MHz



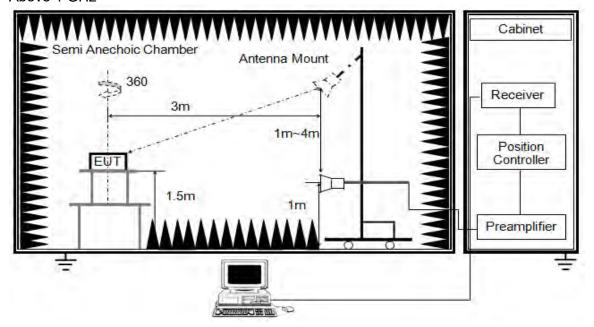
The setting of the spectrum analyser

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 11.11.
- 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 80 cm 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



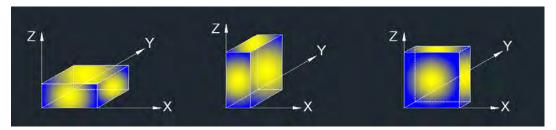
The setting of the spectrum analyser

RBW	1 MHz
IV/R/W	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 11.11 and 11.12.
- 2. The EUT was arranged to its worst case and then tune the antenna tower (1.5 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 1.5 m 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 1: For all radiated test, EUT in each of three orthogonal axis emissions had been tested, but only the worst case (X axis) data recorded in the report.

Note 2: Simultaneous transmission had been evaluated with the 2.4 GHz WiFi and 5.8Gwiless transmitter and there were no any additional or worse emissions found. Only the worst data was recorded in the 5.8G wireless test report.

Note 3: The EUT was fully exercised with external accessories during the test. In the case of multiple accessory external ports, an external accessory shall be connected to one of each type of port.

TEST ENVIRONMENT

Temperature	22.9 °C	Relative Humidity	58.1 %
Atmosphere Pressure	101 kPa	Test Voltage	AC 120 V, 60 Hz

RESULTS

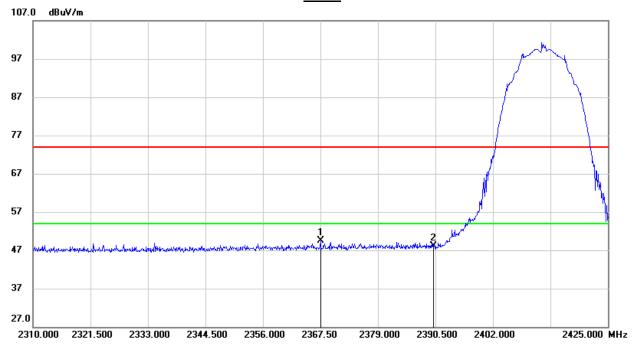


8.1. RESTRICTED BANDEDGE

8.1.1. 802.11b SISO MODE

RESTRICTED BANDEDGE (LOW CHANNEL, HORIZONTAL)

PEAK



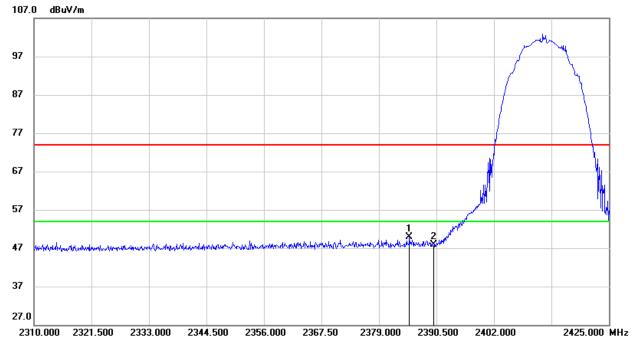
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2367.500	16.69	32.87	49.56	74.00	-24.44	peak
2	2390.000	15.08	32.94	48.02	74.00	-25.98	peak

- 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.



RESTRICTED BANDEDGE (LOW CHANNEL, VERTICAL)

PEAK



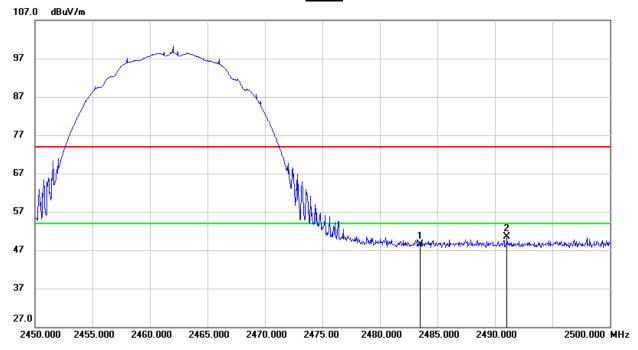
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2385.095	17.07	32.93	50.00	74.00	-24.00	peak
2	2390.000	15.04	32.94	47.98	74.00	-26.02	peak

- 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.



RESTRICTED BANDEDGE (HIGH CHANNEL, HORIZONTAL)

PEAK



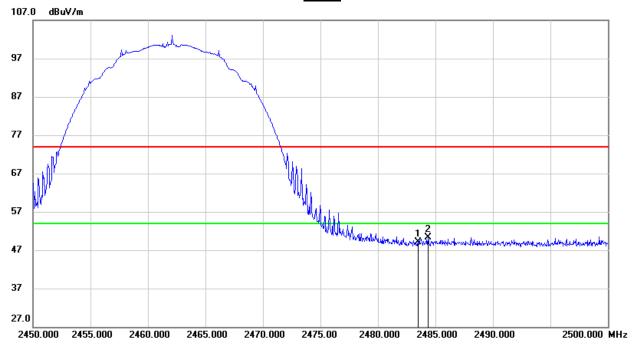
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2483.500	15.02	33.58	48.60	74.00	-25.40	peak
2	2491.050	16.86	33.63	50.49	74.00	-23.51	peak

- 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.



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	15.48	33.58	49.06	74.00	-24.94	peak
2	2484.350	16.75	33.59	50.34	74.00	-23.66	peak

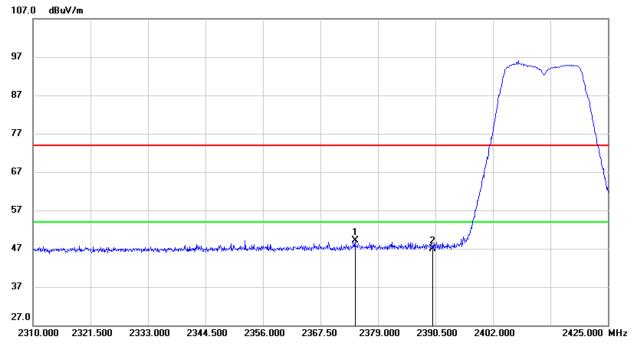
- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.



8.1.2. 802.11g SISO MODE

RESTRICTED BANDEDGE (LOW CHANNEL, HORIZONTAL)

PEAK



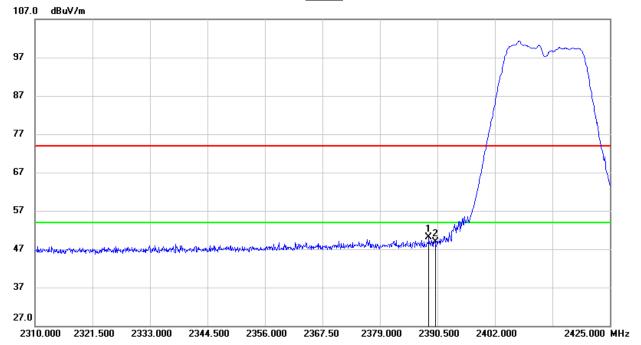
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2374.400	16.16	32.89	49.05	74.00	-24.95	peak
2	2390.000	14.06	32.94	47.00	74.00	-27.00	peak

- 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.



RESTRICTED BANDEDGE (LOW CHANNEL, VERTICAL)

PEAK



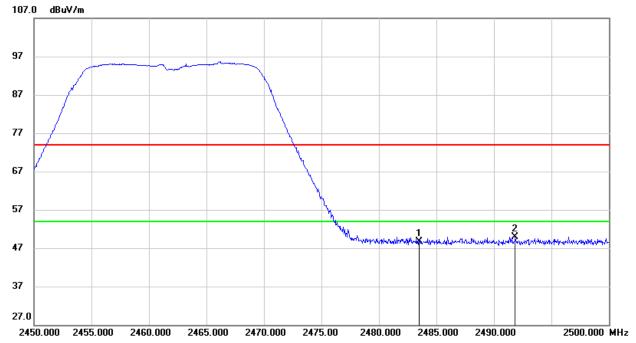
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2388.775	17.09	32.94	50.03	74.00	-23.97	peak
2	2390.000	15.93	32.94	48.87	74.00	-25.13	peak

- 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.



RESTRICTED BANDEDGE (HIGH CHANNEL, HORIZONTAL)

PEAK



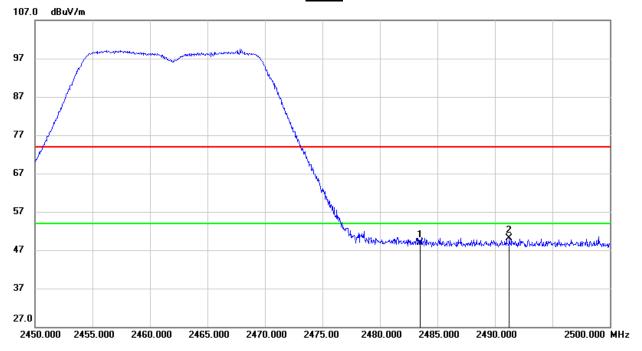
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2483.500	15.14	33.58	48.72	74.00	-25.28	peak
2	2491.850	16.27	33.65	49.92	74.00	-24.08	peak

- 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.



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	15.23	33.58	48.81	74.00	-25.19	peak
2	2491.250	16.49	33.63	50.12	74.00	-23.88	peak

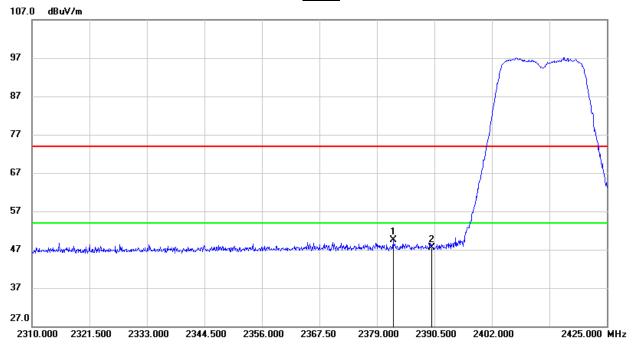
- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.



8.1.3. 802.11n HT20 MODE

RESTRICTED BANDEDGE (LOW CHANNEL, HORIZONTAL)

PEAK



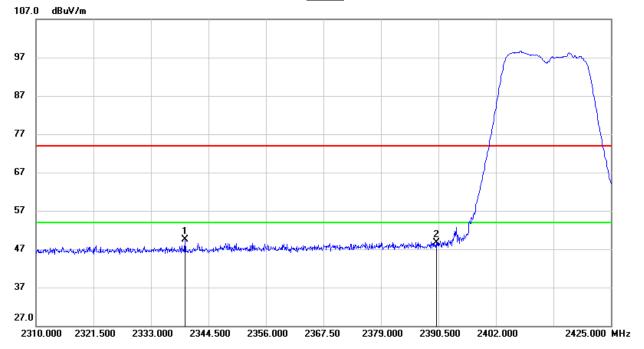
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2382.220	16.53	32.92	49.45	74.00	-24.55	peak
2	2390.000	14.50	32.94	47.44	74.00	-26.56	peak

- 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.



RESTRICTED BANDEDGE (LOW CHANNEL, VERTICAL)

PEAK



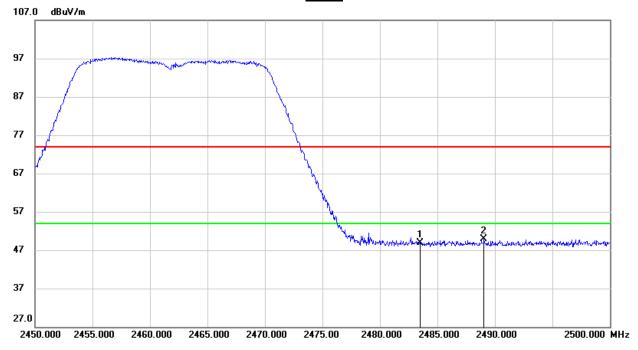
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2339.785	16.76	32.77	49.53	74.00	-24.47	peak
2	2390.000	15.78	32.94	48.72	74.00	-25.28	peak

- 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.



RESTRICTED BANDEDGE (HIGH CHANNEL, HORIZONTAL)

PEAK



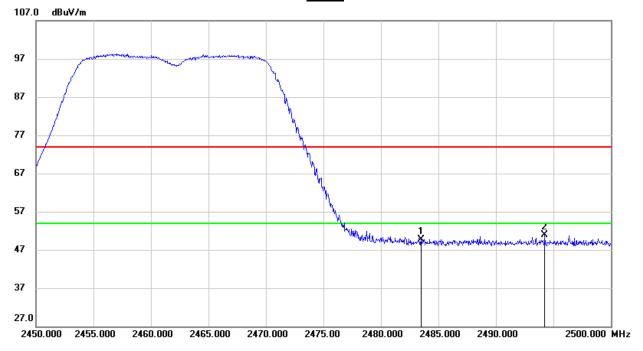
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2483.500	15.33	33.58	48.91	74.00	-25.09	peak
2	2489.050	16.36	33.62	49.98	74.00	-24.02	peak

- 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.



RESTRICTED BANDEDGE (HIGH CHANNEL, VERTICAL)

PEAK



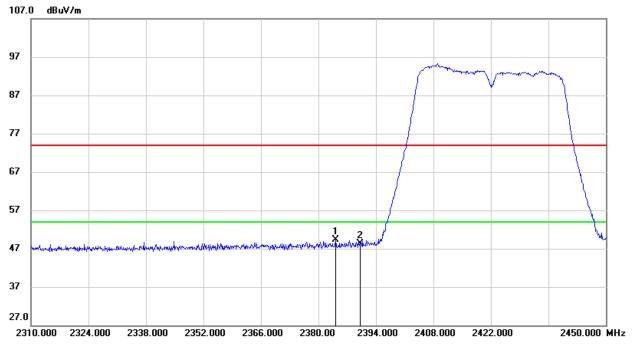
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2483.500	16.05	33.58	49.63	74.00	-24.37	peak
2	2494.250	17.17	33.66	50.83	74.00	-23.17	peak



8.1.4. 802.11n HT40 MODE

RESTRICTED BANDEDGE (LOW CHANNEL, HORIZONTAL)

PEAK



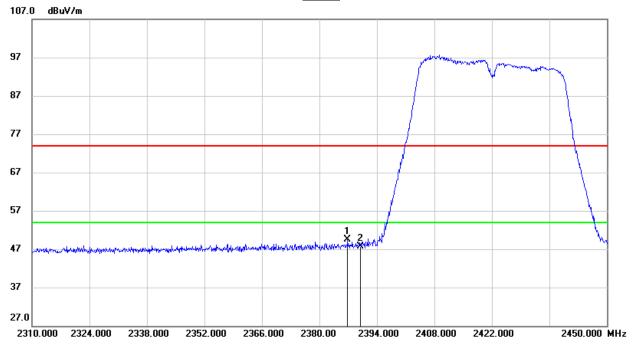
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2384.200	16.35	32.92	49.27	74.00	-24.73	peak
2	2390.000	15.37	32.94	48.31	74.00	-25.69	peak

- 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 (LOW CHANNEL, VERTICAL)

PEAK



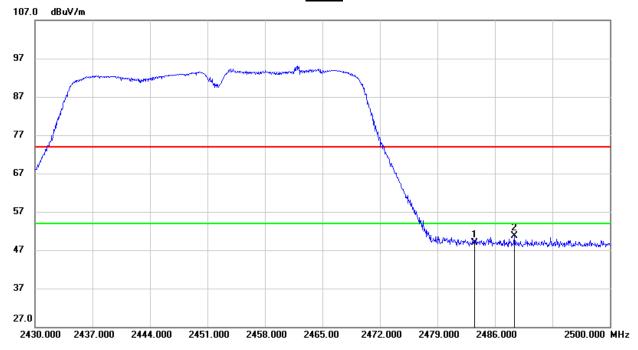
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2386.860	16.53	32.94	49.47	74.00	-24.53	peak
2	2390.000	14.75	32.94	47.69	74.00	-26.31	peak

- 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.



RESTRICTED BANDEDGE (HIGH CHANNEL, HORIZONTAL)

PEAK



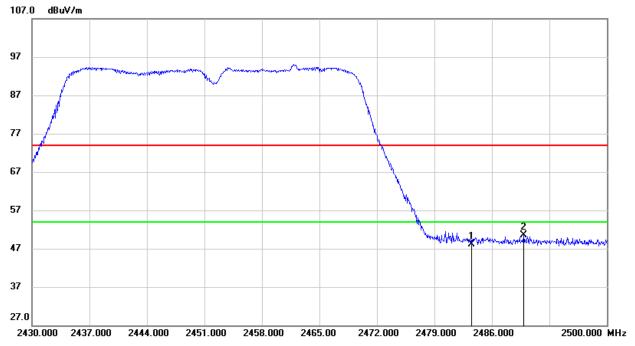
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2483.500	15.37	33.58	48.95	74.00	-25.05	peak
2	2488.380	17.13	33.62	50.75	74.00	-23.25	peak

- 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.



RESTRICTED BANDEDGE (HIGH CHANNEL, VERTICAL)

PEAK

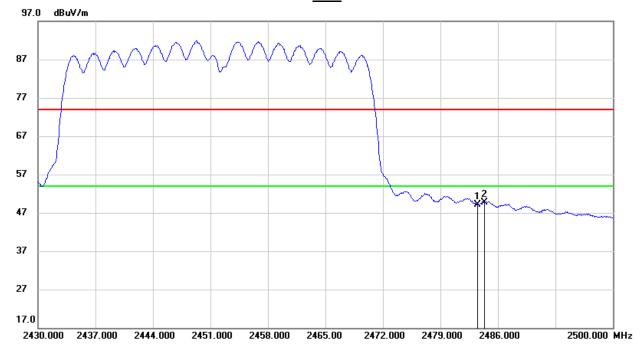


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2483.500	14.55	33.58	48.13	74.00	-25.87	peak
2	2489.850	16.84	33.63	50.47	74.00	-23.53	peak

- 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	15.47	33.58	49.05	54.00	-4.95	AVG
2	2484.390	16.13	33.59	49.72	54.00	-4.28	AVG

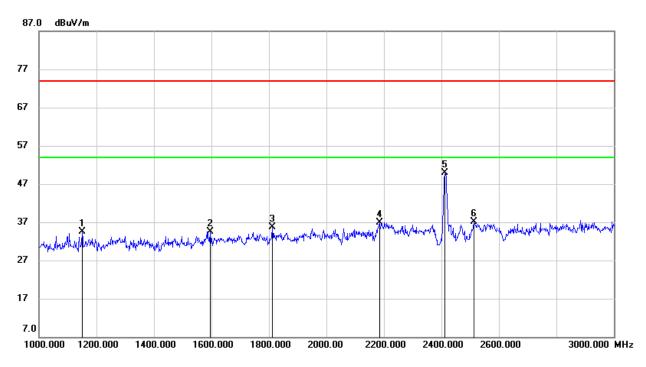
- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
- 4. For the transmitting duration, please refer to clause 7.1.
- 5. Only the worst data was recorded, if it complies with the limit, the other emissions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



8.2. SPURIOUS EMISSIONS (1 GHz ~ 3 GHz)

8.2.1. 802.11b SISO MODE

HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, HORIZONTAL)

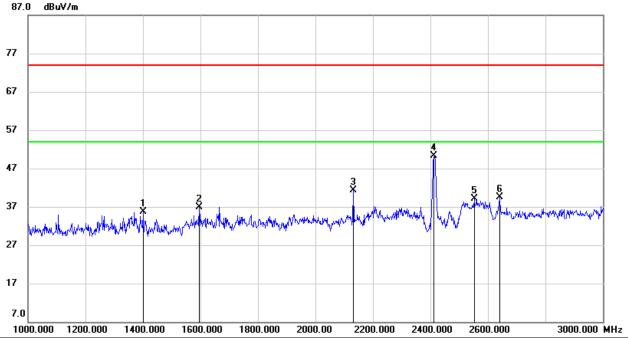


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1150.000	47.57	-13.10	34.47	74.00	-39.53	peak
2	1596.000	46.01	-11.44	34.57	74.00	-39.43	peak
3	1812.000	45.64	-9.92	35.72	74.00	-38.28	peak
4	2184.000	45.70	-8.74	36.96	74.00	-37.04	peak
5	2412.000	57.68	-7.77	49.91	/	/	fundamental
6	2512.000	44.30	-7.23	37.07	74.00	-36.93	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)

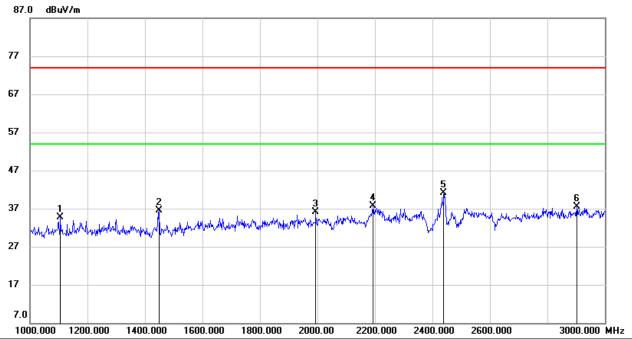


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1400.000	48.05	-12.38	35.67	74.00	-38.33	peak
2	1596.000	48.39	-11.44	36.95	74.00	-37.05	peak
3	2132.000	50.30	-9.00	41.30	74.00	-32.70	peak
4	2412.000	57.99	-7.77	50.22	/	/	fundamental
5	2552.000	46.49	-7.44	39.05	74.00	-34.95	peak
6	2640.000	47.06	-7.48	39.58	74.00	-34.42	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)

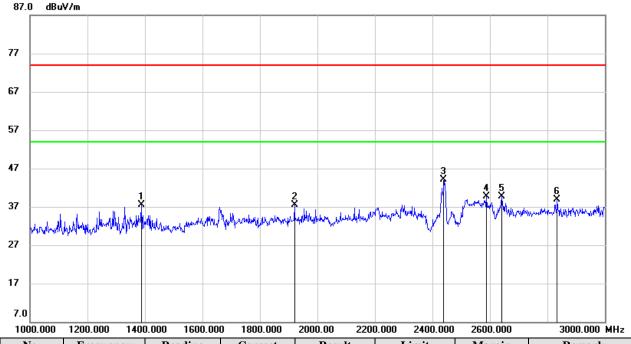


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1106.000	48.17	-13.47	34.70	74.00	-39.30	peak
2	1450.000	48.89	-12.30	36.59	74.00	-37.41	peak
3	1994.000	45.98	-9.83	36.15	74.00	-37.85	peak
4	2194.000	46.38	-8.70	37.68	74.00	-36.32	peak
5	2437.000	48.66	-7.60	41.06	1	/	fundamental
6	2902.000	42.94	-5.51	37.43	74.00	-36.57	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)

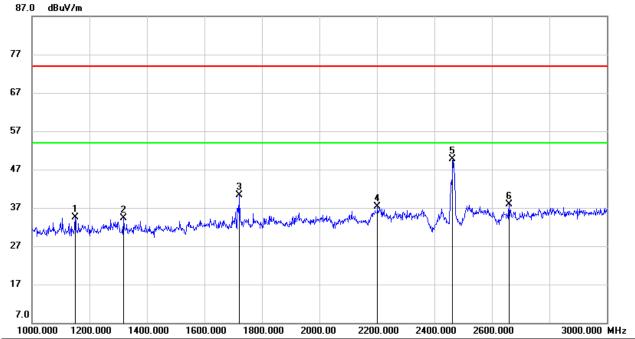


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1388.000	49.81	-12.38	37.43	74.00	-36.57	peak
2	1920.000	47.45	-9.93	37.52	74.00	-36.48	peak
3	2437.000	51.76	-7.60	44.16	/	/	fundamental
4	2588.000	47.38	-7.64	39.74	74.00	-34.26	peak
5	2642.000	47.24	-7.48	39.76	74.00	-34.24	peak
6	2834.000	44.79	-5.88	38.91	74.00	-35.09	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)

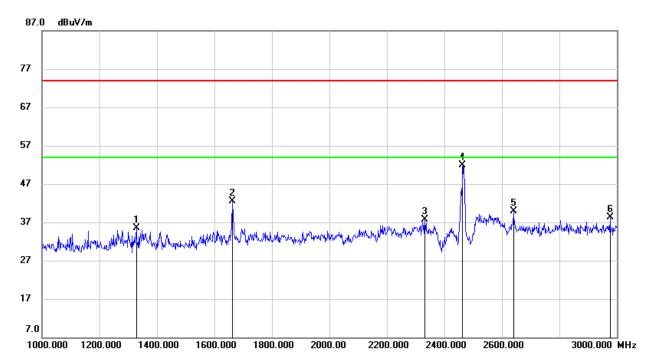


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1150.000	47.52	-13.10	34.42	74.00	-39.58	peak
2	1318.000	46.70	-12.36	34.34	74.00	-39.66	peak
3	1722.000	51.06	-10.69	40.37	74.00	-33.63	peak
4	2202.000	45.91	-8.66	37.25	74.00	-36.75	peak
5	2462.000	57.18	-7.43	49.75	/	/	fundamental
6	2660.000	45.29	-7.35	37.94	74.00	-36.06	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)



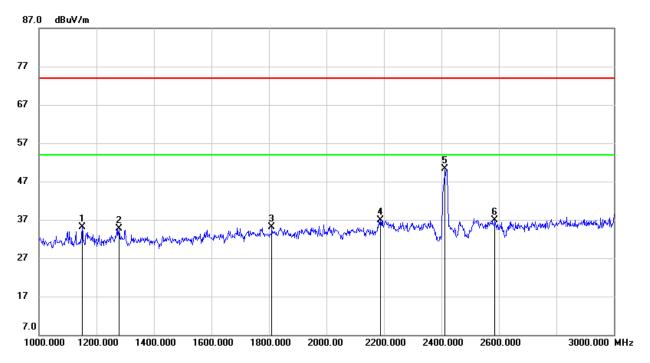
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1328.000	47.84	-12.36	35.48	74.00	-38.52	peak
2	1662.000	53.50	-11.09	42.41	74.00	-31.59	peak
3	2332.000	45.75	-8.08	37.67	74.00	-36.33	peak
4	2462.000	59.41	-7.43	51.98	/	/	fundamental
5	2640.000	47.40	-7.48	39.92	74.00	-34.08	peak
6	2976.000	43.62	-5.35	38.27	74.00	-35.73	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.



8.2.2. 802.11g SISO MODE

HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, HORIZONTAL)

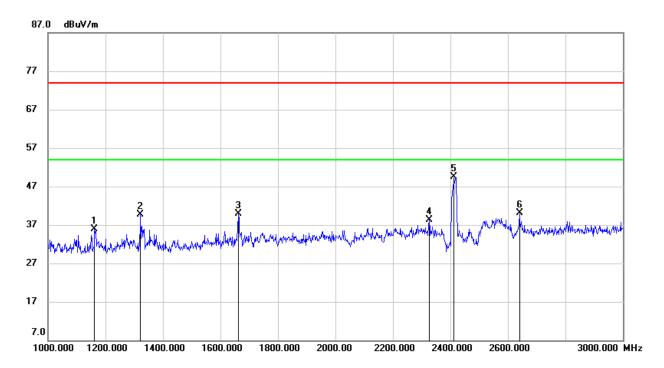


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1150.000	48.14	-13.10	35.04	74.00	-38.96	peak
2	1278.000	47.05	-12.42	34.63	74.00	-39.37	peak
3	1810.000	44.96	-9.92	35.04	74.00	-38.96	peak
4	2188.000	45.69	-8.72	36.97	74.00	-37.03	peak
5	2412.000	57.99	-7.77	50.22	/	/	fundamental
6	2586.000	44.62	-7.63	36.99	74.00	-37.01	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)

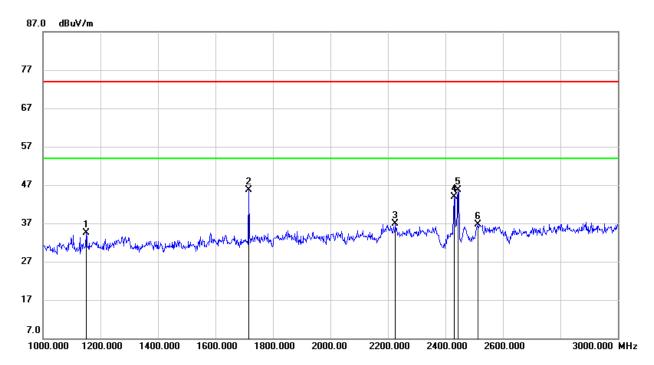


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1162.000	48.90	-13.00	35.90	74.00	-38.10	peak
2	1322.000	52.15	-12.35	39.80	74.00	-34.20	peak
3	1662.000	51.05	-11.09	39.96	74.00	-34.04	peak
4	2326.000	46.41	-8.10	38.31	74.00	-35.69	peak
5	2412.000	57.24	-7.77	49.47	1	/	fundamental
6	2640.000	47.57	-7.48	40.09	74.00	-33.91	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 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)

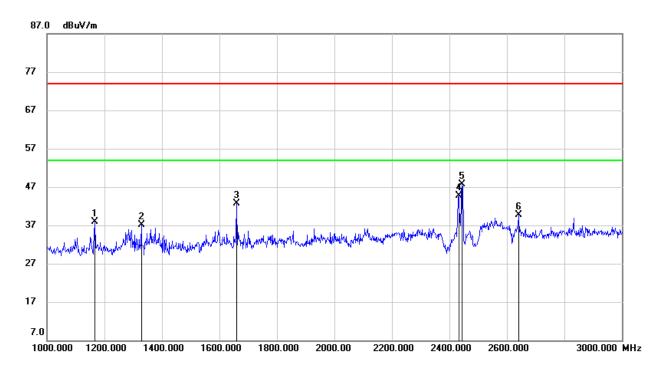


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1150.000	47.53	-13.10	34.43	74.00	-39.57	peak
2	1716.000	56.45	-10.75	45.70	74.00	-28.30	peak
3	2226.000	45.35	-8.54	36.81	74.00	-37.19	peak
4	2430.000	51.59	-7.65	43.94	74.00	-30.06	peak
5	2437.000	53.35	-7.55	45.80	/	/	fundamental
6	2512.000	43.91	-7.23	36.68	74.00	-37.32	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)

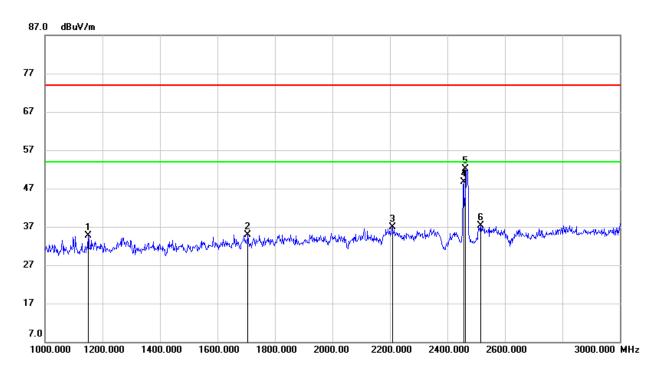


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1166.000	50.86	-12.96	37.90	74.00	-36.10	peak
2	1328.000	49.53	-12.36	37.17	74.00	-36.83	peak
3	1660.000	53.86	-11.10	42.76	74.00	-31.24	peak
4	2432.000	52.36	-7.63	44.73	74.00	-29.27	peak
5	2437.000	55.31	-7.55	47.76	/	/	fundamental
6	2640.000	47.22	-7.48	39.74	74.00	-34.26	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 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)

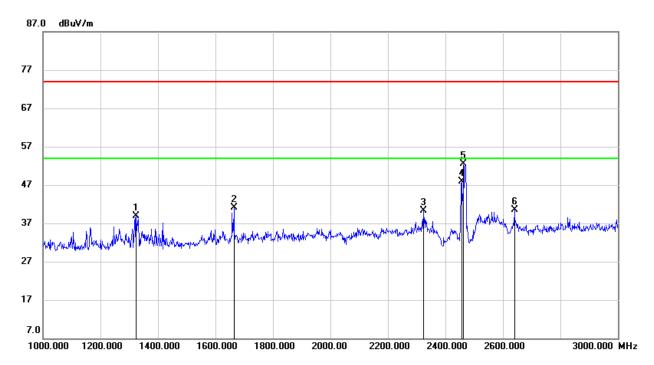


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1150.000	47.77	-13.10	34.67	74.00	-39.33	peak
2	1706.000	45.85	-10.85	35.00	74.00	-39.00	peak
3	2208.000	45.47	-8.63	36.84	74.00	-37.16	peak
4	2456.000	56.15	-7.47	48.68	74.00	-25.32	peak
5	2462.000	59.61	-7.43	52.18	1	/	fundamental
6	2516.000	44.50	-7.25	37.25	74.00	-36.75	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)



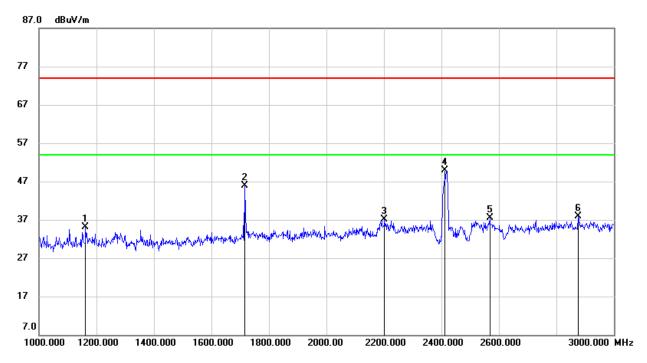
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1324.000	51.17	-12.36	38.81	74.00	-35.19	peak
2	1664.000	52.27	-11.09	41.18	74.00	-32.82	peak
3	2324.000	48.45	-8.12	40.33	74.00	-33.67	peak
4	2456.000	55.30	-7.47	47.83	74.00	-26.17	peak
5	2462.000	59.88	-7.43	52.45	/	/	fundamental
6	2640.000	48.01	-7.48	40.53	74.00	-33.47	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.



8.2.3. 802.11n HT20 MODE

HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, HORIZONTAL)

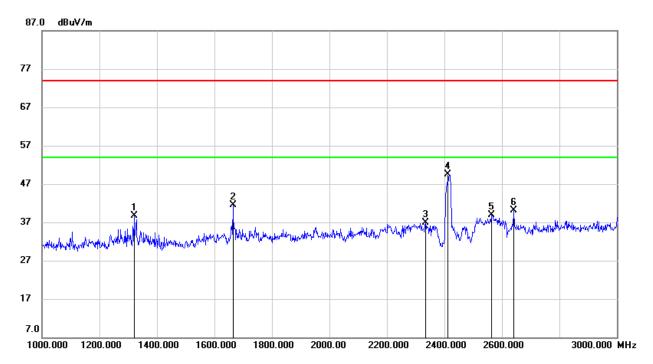


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1162.000	48.17	-13.00	35.17	74.00	-38.83	peak
2	1716.000	56.74	-10.75	45.99	74.00	-28.01	peak
3	2202.000	45.69	-8.66	37.03	74.00	-36.97	peak
4	2412.000	57.71	-7.77	49.94	1	/	fundamental
5	2568.000	44.95	-7.54	37.41	74.00	-36.59	peak
6	2876.000	43.59	-5.66	37.93	74.00	-36.07	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)

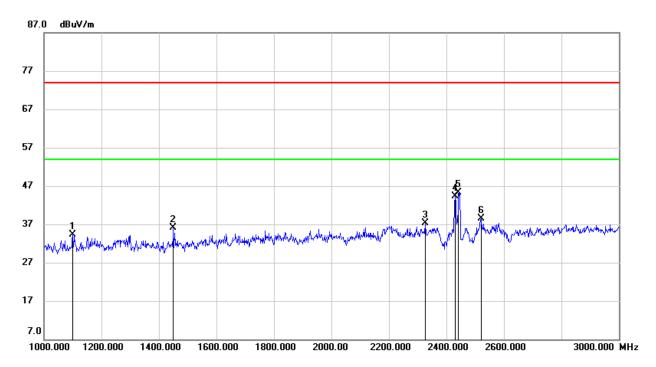


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1320.000	51.08	-12.35	38.73	74.00	-35.27	peak
2	1664.000	52.64	-11.09	41.55	74.00	-32.45	peak
3	2334.000	44.89	-8.08	36.81	74.00	-37.19	peak
4	2412.000	57.22	-7.77	49.45	/	/	fundamental
5	2564.000	46.32	-7.51	38.81	74.00	-35.19	peak
6	2642.000	47.47	-7.46	40.01	74.00	-33.99	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 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)

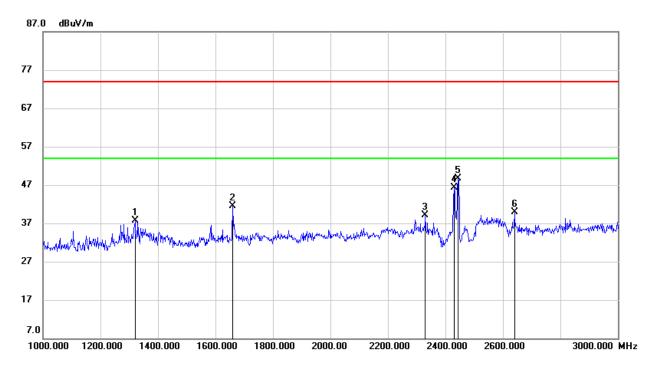


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1100.000	47.76	-13.52	34.24	74.00	-39.76	peak
2	1450.000	48.47	-12.30	36.17	74.00	-37.83	peak
3	2326.000	45.36	-8.10	37.26	74.00	-36.74	peak
4	2430.000	51.90	-7.65	44.25	74.00	-29.75	peak
5	2437.000	52.99	-7.59	45.40	/	/	fundamental
6	2522,000	45.82	-7.28	38.54	74.00	-35.46	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 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)

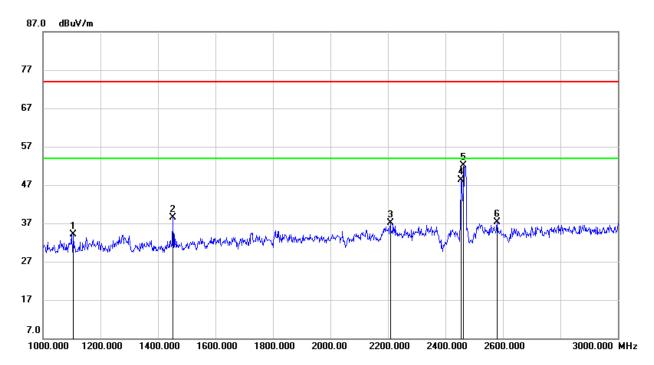


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1320.000	50.10	-12.35	37.75	74.00	-36.25	peak
2	1660.000	52.68	-11.10	41.58	74.00	-32.42	peak
3	2330.000	47.17	-8.10	39.07	74.00	-34.93	peak
4	2430.000	53.99	-7.65	46.34	74.00	-27.66	peak
5	2437.000	56.29	-7.55	48.74	/	/	fundamental
6	2640.000	47.40	-7.48	39.92	74.00	-34.08	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)

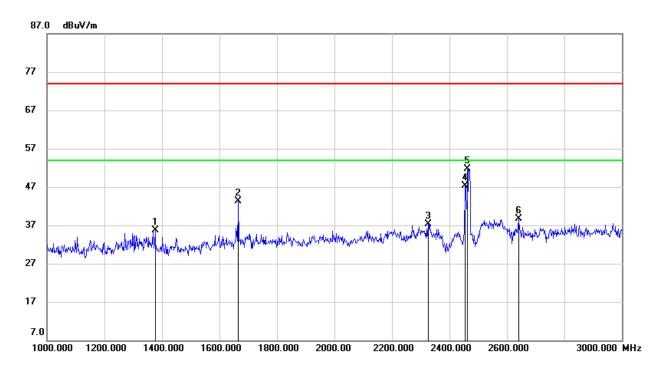


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1106.000	47.60	-13.47	34.13	74.00	-39.87	peak
2	1452.000	50.70	-12.29	38.41	74.00	-35.59	peak
3	2208.000	45.69	-8.63	37.06	74.00	-36.94	peak
4	2454.000	55.78	-7.48	48.30	74.00	-25.70	peak
5	2462.000	59.46	-7.43	52.03	/	/	fundamental
6	2580.000	44.89	-7.59	37.30	74.00	-36.70	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)



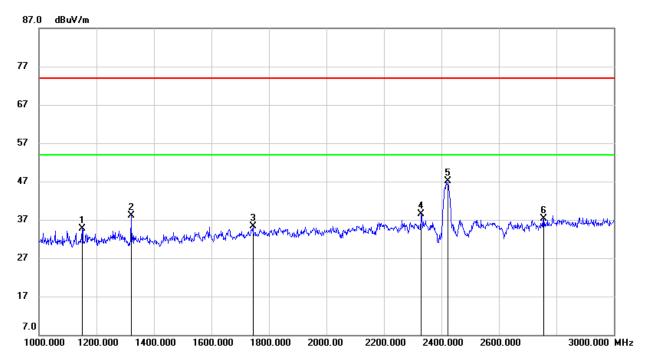
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1376.000	47.99	-12.37	35.62	74.00	-38.38	peak
2	1666.000	54.39	-11.07	43.32	74.00	-30.68	peak
3	2326.000	45.47	-8.10	37.37	74.00	-36.63	peak
4	2454.000	54.87	-7.48	47.39	74.00	-26.61	peak
5	2462.000	59.17	-7.43	51.74	/	/	fundamental
6	2640.000	46.14	-7.48	38.66	74.00	-35.34	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 Band reject filter losses.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



8.2.4. 802.11n HT40 MODE

HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, HORIZONTAL)

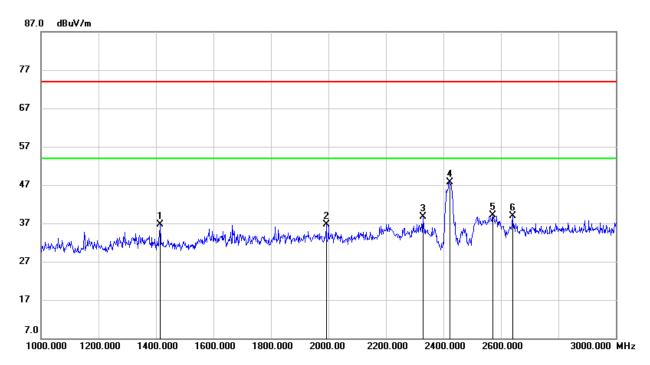


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1150.000	47.86	-13.10	34.76	74.00	-39.24	peak
2	1320.000	50.50	-12.35	38.15	74.00	-35.85	peak
3	1744.000	45.79	-10.46	35.33	74.00	-38.67	peak
4	2330.000	46.65	-8.10	38.55	74.00	-35.45	peak
5	2422.000	54.85	-7.71	47.14	1	/	fundamental
6	2756.000	43.82	-6.53	37.29	74.00	-36.71	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)

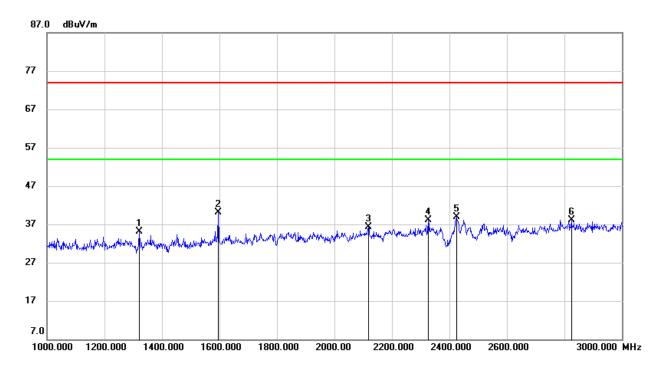


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1414.000	49.05	-12.35	36.70	74.00	-37.30	peak
2	1992.000	46.58	-9.83	36.75	74.00	-37.25	peak
3	2328.000	46.86	-8.10	38.76	74.00	-35.24	peak
4	2422.000	55.32	-7.71	47.61	/	/	fundamental
5	2572.000	46.68	-7.55	39.13	74.00	-34.87	peak
6	2640.000	46.29	-7.48	38.81	74.00	-35.19	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)

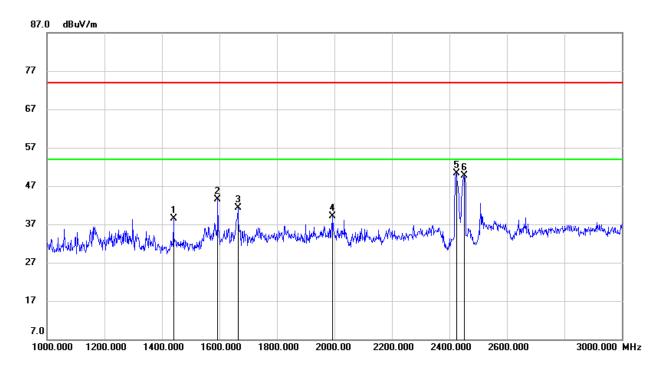


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1320.000	47.51	-12.35	35.16	74.00	-38.84	peak
2	1596.000	51.63	-11.44	40.19	74.00	-33.81	peak
3	2118.000	45.30	-9.07	36.23	74.00	-37.77	peak
4	2326.000	46.15	-8.10	38.05	74.00	-35.95	peak
5	2424.000	46.51	-7.70	38.81	74.00	-35.19	peak
6	2824.000	44.08	-5.92	38.16	74.00	-35.84	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)

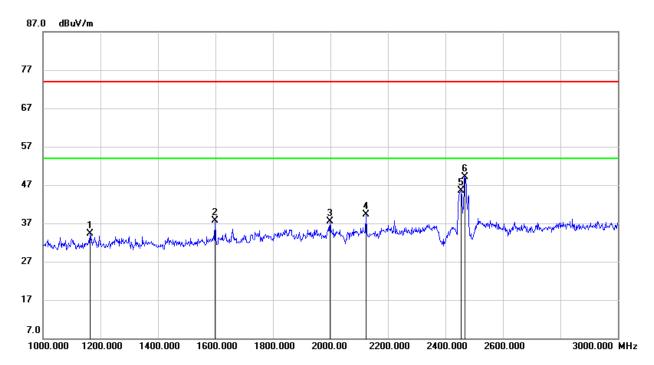


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1440.000	50.88	-12.32	38.56	74.00	-35.44	peak
2	1594.000	54.89	-11.45	43.44	74.00	-30.56	peak
3	1664.000	52.41	-11.09	41.32	74.00	-32.68	peak
4	1994.000	48.86	-9.83	39.03	74.00	-34.97	peak
5	2424.000	58.08	-7.70	50.38	74.00	-23.62	peak
6	2452.000	57.13	-7.50	49.63	74.00	-24.37	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)

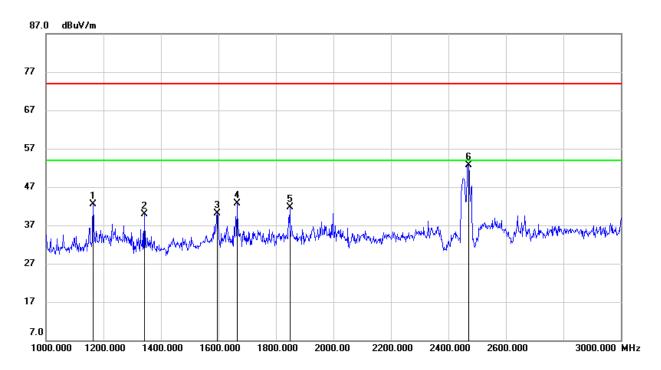


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1164.000	47.29	-12.97	34.32	74.00	-39.68	peak
2	1598.000	49.12	-11.42	37.70	74.00	-36.30	peak
3	1998.000	47.24	-9.83	37.41	74.00	-36.59	peak
4	2124.000	48.32	-9.04	39.28	74.00	-34.72	peak
5	2452.000	52.91	-7.48	45.43	/	/	fundamental
6	2468.000	56.42	-7.39	49.03	74.00	-24.97	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, VERTICAL)



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1164.000	55.40	-12.97	42.43	74.00	-31.57	peak
2	1342.000	52.20	-12.35	39.85	74.00	-34.15	peak
3	1596.000	51.53	-11.44	40.09	74.00	-33.91	peak
4	1664.000	53.81	-11.09	42.72	74.00	-31.28	peak
5	1848.000	51.59	-9.93	41.66	74.00	-32.34	peak
6	2470.000	60.14	-7.37	52.77	74.00	-21.23	peak

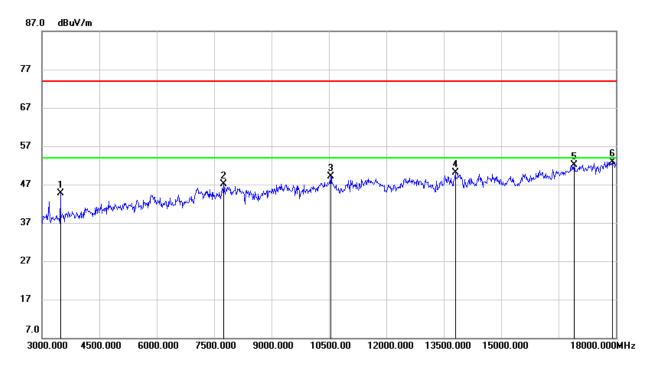
- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band reject filter losses.
 - 5. Proper operation of the transmitter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



8.3. SPURIOUS EMISSIONS (3 GHz ~ 18 GHz)

8.3.1. 802.11b SISO MODE

HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, HORIZONTAL)



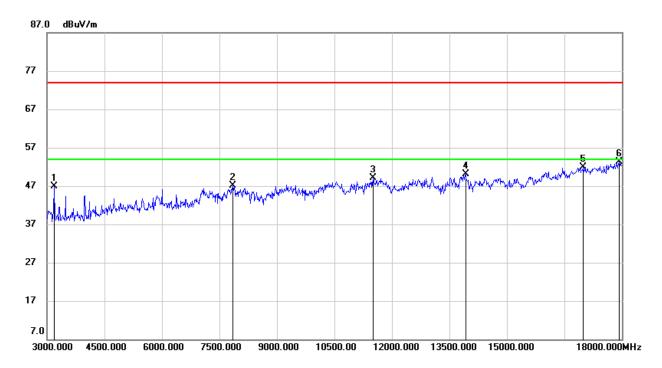
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	3480.000	48.85	-4.06	44.79	74.00	-29.21	peak
2	7755.000	39.83	7.29	47.12	74.00	-26.88	peak
3	10545.000	37.43	11.64	49.07	74.00	-24.93	peak
4	13800.000	32.95	17.10	50.05	74.00	-23.95	peak
5	16905.000	32.10	19.99	52.09	74.00	-21.91	peak
6	17910.000	29.54	23.35	52.89	74.00	-21.11	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 (LOW CHANNEL, VERTICAL)



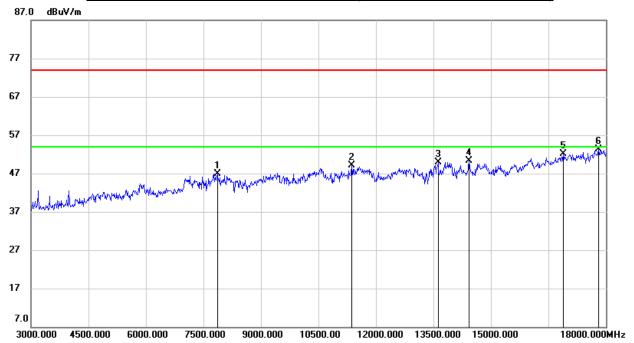
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	3180.000	51.30	-4.33	46.97	74.00	-27.03	peak
2	7845.000	39.48	7.62	47.10	74.00	-26.90	peak
3	11505.000	35.70	13.42	49.12	74.00	-24.88	peak
4	13920.000	33.87	16.17	50.04	74.00	-23.96	peak
5	16995.000	31.57	20.38	51.95	74.00	-22.05	peak
6	17925.000	29.99	23.37	53.36	74.00	-20.64	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 (MID CHANNEL, HORIZONTAL)

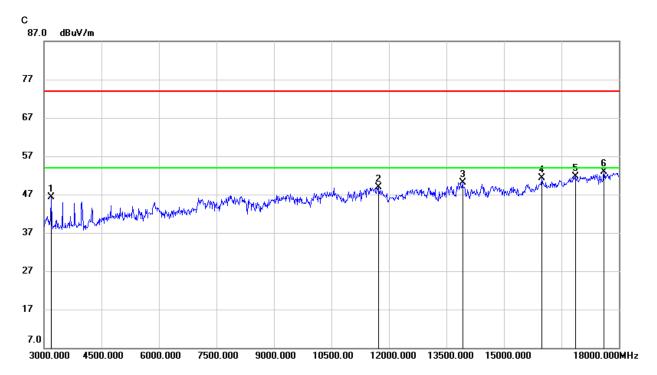


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	7860.000	39.33	7.51	46.84	74.00	-27.16	peak
2	11370.000	36.52	12.54	49.06	74.00	-24.94	peak
3	13620.000	33.97	15.99	49.96	74.00	-24.04	peak
4	14430.000	34.05	16.35	50.40	74.00	-23.60	peak
5	16890.000	32.04	19.97	52.01	74.00	-21.99	peak
6	17805.000	29.96	23.31	53.27	74.00	-20.73	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)

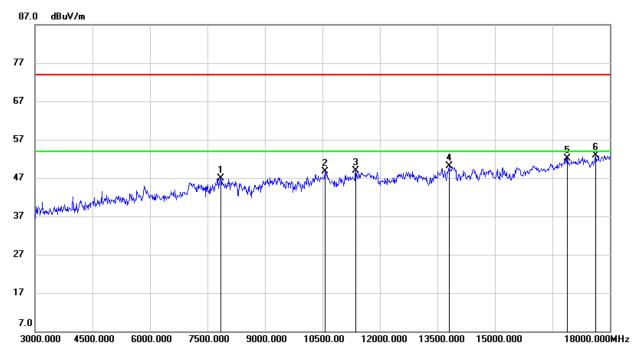


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	3180.000	50.61	-4.33	46.28	74.00	-27.72	peak
2	11730.000	35.88	13.02	48.90	74.00	-25.10	peak
3	13920.000	33.91	16.17	50.08	74.00	-23.92	peak
4	15990.000	33.66	17.68	51.34	74.00	-22.66	peak
5	16860.000	31.85	19.95	51.80	74.00	-22.20	peak
6	17610.000	30.96	21.86	52.82	74.00	-21.18	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)

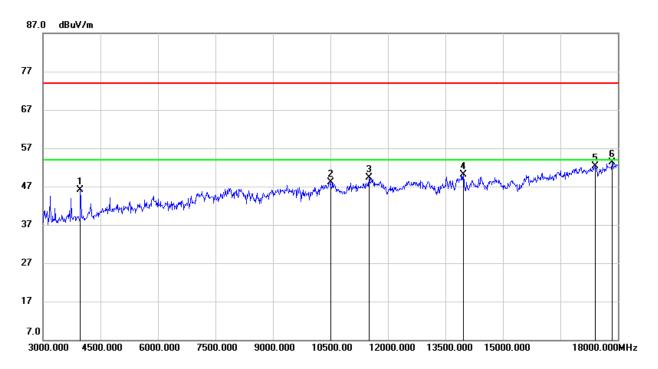


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	7845.000	39.35	7.62	46.97	74.00	-27.03	peak
2	10560.000	36.88	11.73	48.61	74.00	-25.39	peak
3	11370.000	36.40	12.54	48.94	74.00	-25.06	peak
4	13800.000	32.96	17.10	50.06	74.00	-23.94	peak
5	16890.000	32.23	19.97	52.20	74.00	-21.80	peak
6	17625.000	30.89	21.95	52.84	74.00	-21.16	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)



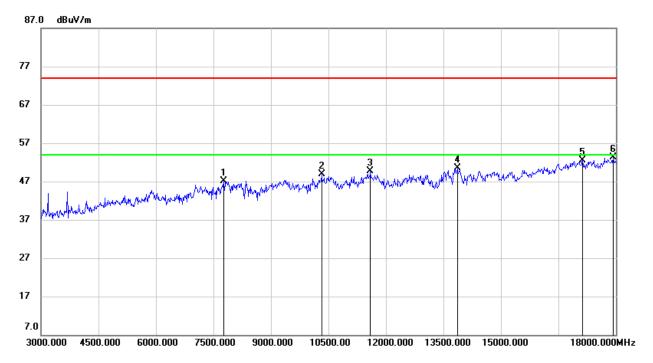
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	3975.000	48.98	-2.90	46.08	74.00	-27.92	peak
2	10500.000	36.72	11.38	48.10	74.00	-25.90	peak
3	11505.000	35.92	13.42	49.34	74.00	-24.66	peak
4	13965.000	33.97	16.09	50.06	74.00	-23.94	peak
5	17400.000	30.99	21.41	52.40	74.00	-21.60	peak
6	17850.000	29.93	23.32	53.25	74.00	-20.75	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 SISO MODE

HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, HORIZONTAL)

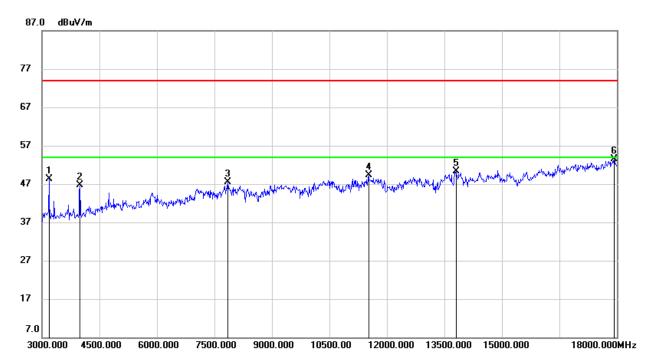


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	7770.000	39.68	7.50	47.18	74.00	-26.82	peak
2	10320.000	37.82	11.05	48.87	74.00	-25.13	peak
3	11595.000	36.42	13.19	49.61	74.00	-24.39	peak
4	13860.000	34.03	16.56	50.59	74.00	-23.41	peak
5	17130.000	31.86	20.72	52.58	74.00	-21.42	peak
6	17925.000	29.89	23.37	53.26	74.00	-20.74	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)

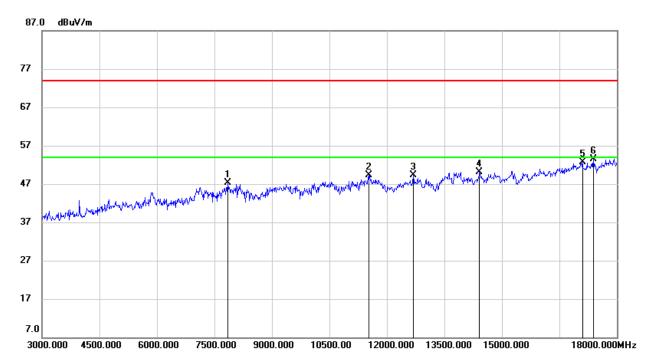


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	3180.000	52.67	-4.33	48.34	74.00	-25.66	peak
2	3990.000	49.66	-2.89	46.77	74.00	-27.23	peak
3	7845.000	39.80	7.62	47.42	74.00	-26.58	peak
4	11520.000	35.84	13.38	49.22	74.00	-24.78	peak
5	13800.000	33.12	17.10	50.22	74.00	-23.78	peak
6	17925.000	30.12	23.37	53.49	74.00	-20.51	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)

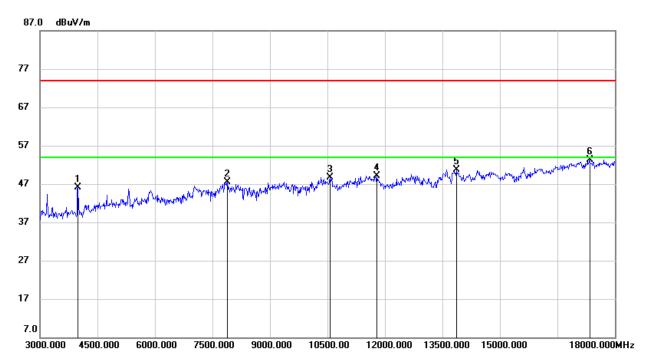


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	7845.000	39.68	7.62	47.30	74.00	-26.70	peak
2	11520.000	35.85	13.38	49.23	74.00	-24.77	peak
3	12690.000	35.12	14.25	49.37	74.00	-24.63	peak
4	14415.000	33.77	16.35	50.12	74.00	-23.88	peak
5	17100.000	31.99	20.64	52.63	74.00	-21.37	peak
6	17385.000	32.06	21.46	53.52	74.00	-20.48	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 (MID CHANNEL, VERTICAL)

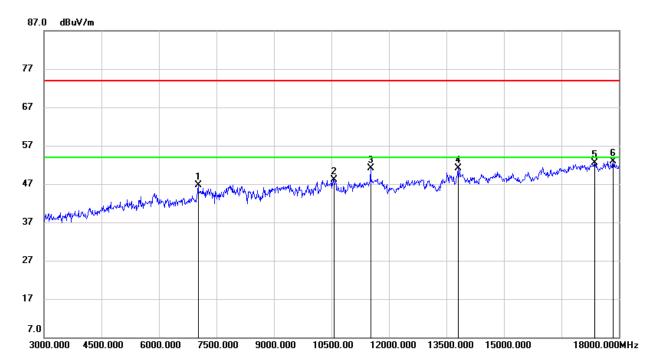


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	3990.000	48.95	-2.89	46.06	74.00	-27.94	peak
2	7890.000	40.27	7.30	47.57	74.00	-26.43	peak
3	10560.000	37.05	11.73	48.78	74.00	-25.22	peak
4	11790.000	35.88	13.17	49.05	74.00	-24.95	peak
5	13860.000	34.19	16.56	50.75	74.00	-23.25	peak
6	17340.000	31.63	21.61	53.24	74.00	-20.76	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)

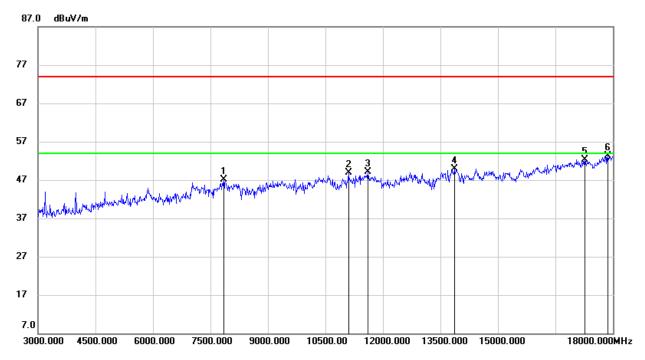


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	7020.000	40.86	5.78	46.64	74.00	-27.36	peak
2	10560.000	36.47	11.73	48.20	74.00	-25.80	peak
3	11520.000	37.66	13.38	51.04	74.00	-22.96	peak
4	13800.000	34.00	17.10	51.10	74.00	-22.90	peak
5	17370.000	30.98	21.52	52.50	74.00	-21.50	peak
6	17850.000	29.66	23.32	52.98	74.00	-21.02	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)



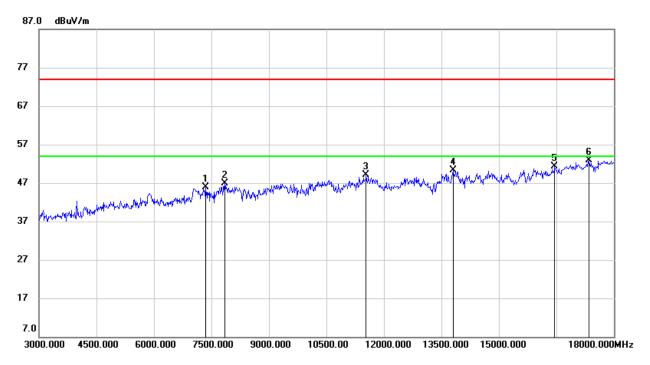
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	7845.000	39.44	7.62	47.06	74.00	-26.94	peak
2	11100.000	36.31	12.56	48.87	74.00	-25.13	peak
3	11610.000	35.86	13.15	49.01	74.00	-24.99	peak
4	13875.000	33.47	16.44	49.91	74.00	-24.09	peak
5	17265.000	30.87	21.46	52.33	74.00	-21.67	peak
6	17865.000	29.94	23.33	53.27	74.00	-20.73	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)

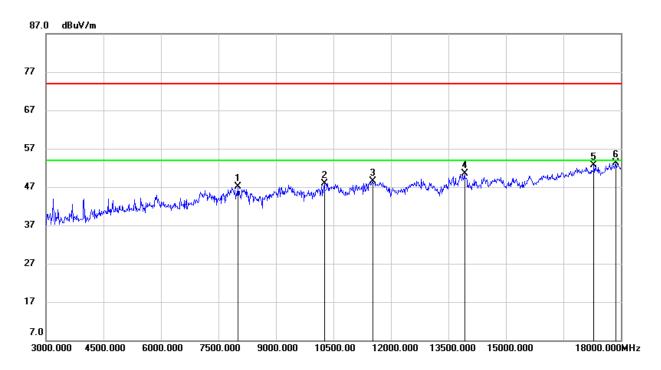


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	7350.000	39.53	6.28	45.81	74.00	-28.19	peak
2	7845.000	39.22	7.62	46.84	74.00	-27.16	peak
3	11535.000	35.82	13.33	49.15	74.00	-24.85	peak
4	13800.000	33.28	17.10	50.38	74.00	-23.62	peak
5	16455.000	32.22	19.00	51.22	74.00	-22.78	peak
6	17355.000	31.40	21.56	52.96	74.00	-21.04	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)

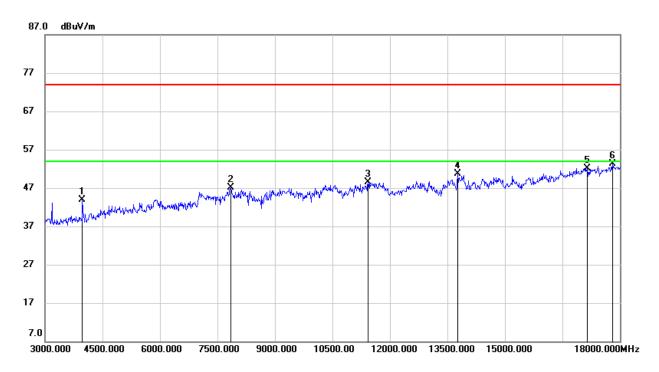


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	8010.000	40.22	6.97	47.19	74.00	-26.81	peak
2	10260.000	37.21	10.71	47.92	74.00	-26.08	peak
3	11520.000	35.03	13.38	48.41	74.00	-25.59	peak
4	13920.000	34.33	16.17	50.50	74.00	-23.50	peak
5	17295.000	30.94	21.71	52.65	74.00	-21.35	peak
6	17865.000	29.99	23.33	53.32	74.00	-20.68	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)

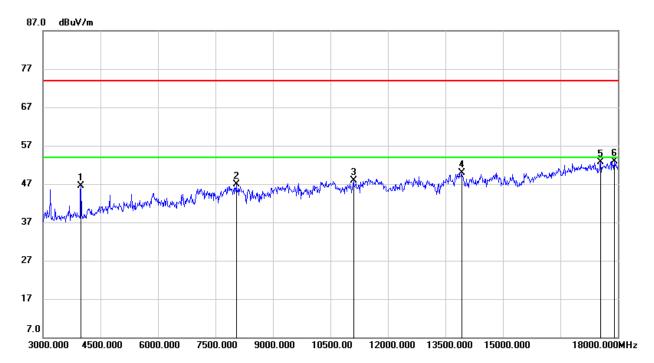


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	3975.000	46.71	-2.90	43.81	74.00	-30.19	peak
2	7845.000	39.41	7.62	47.03	74.00	-26.97	peak
3	11430.000	35.58	12.85	48.43	74.00	-25.57	peak
4	13770.000	33.98	16.72	50.70	74.00	-23.30	peak
5	17145.000	31.43	20.77	52.20	74.00	-21.80	peak
6	17805.000	29.91	23.31	53.22	74.00	-20.78	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)

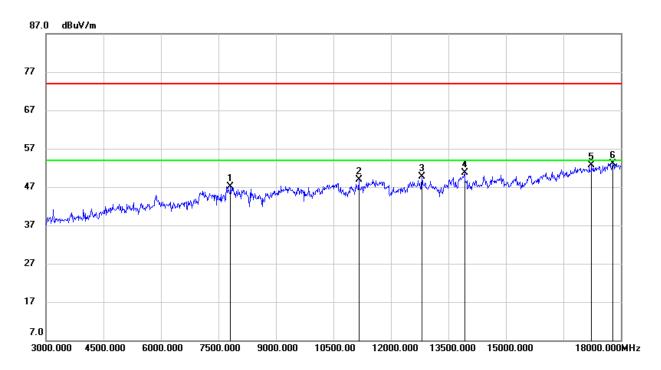


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	3990.000	49.33	-2.89	46.44	74.00	-27.56	peak
2	8040.000	39.73	7.24	46.97	74.00	-27.03	peak
3	11100.000	35.32	12.56	47.88	74.00	-26.12	peak
4	13920.000	33.78	16.17	49.95	74.00	-24.05	peak
5	17550.000	31.04	21.57	52.61	74.00	-21.39	peak
6	17910.000	29.56	23.35	52.91	74.00	-21.09	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)

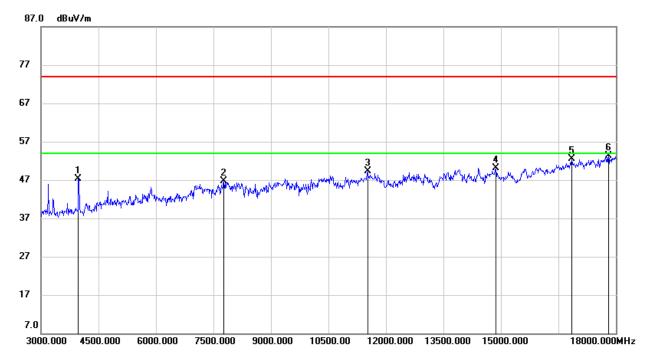


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	7815.000	39.26	7.83	47.09	74.00	-26.91	peak
2	11160.000	36.44	12.53	48.97	74.00	-25.03	peak
3	12810.000	34.09	15.59	49.68	74.00	-24.32	peak
4	13920.000	34.51	16.17	50.68	74.00	-23.32	peak
5	17235.000	31.50	21.21	52.71	74.00	-21.29	peak
6	17790.000	29.87	23.22	53.09	74.00	-20.91	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 (HIGH CHANNEL, VERTICAL)



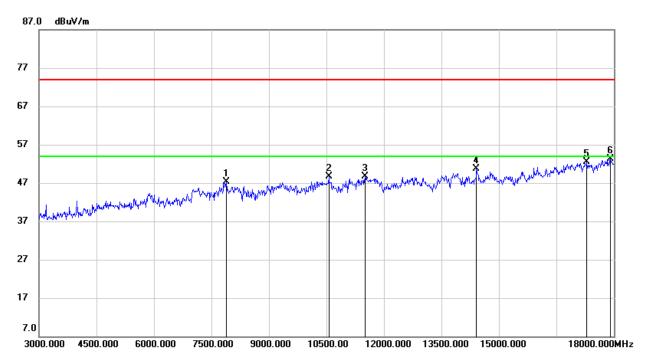
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	3975.000	50.24	-2.90	47.34	74.00	-26.66	peak
2	7770.000	39.21	7.50	46.71	74.00	-27.29	peak
3	11520.000	35.94	13.38	49.32	74.00	-24.68	peak
4	14865.000	34.10	15.98	50.08	74.00	-23.92	peak
5	16845.000	32.63	19.96	52.59	74.00	-21.41	peak
6	17805.000	30.05	23.31	53.36	74.00	-20.64	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)

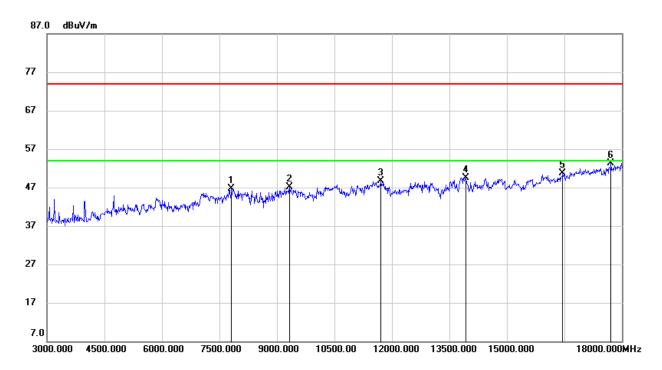


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	7890.000	39.93	7.30	47.23	74.00	-26.77	peak
2	10560.000	36.89	11.73	48.62	74.00	-25.38	peak
3	11505.000	35.35	13.42	48.77	74.00	-25.23	peak
4	14415.000	34.29	16.35	50.64	74.00	-23.36	peak
5	17295.000	30.72	21.71	52.43	74.00	-21.57	peak
6	17910.000	30.00	23.35	53.35	74.00	-20.65	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)

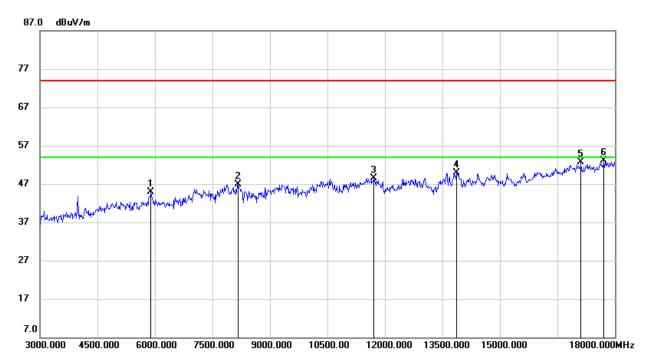


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	7815.000	38.79	7.83	46.62	74.00	-27.38	peak
2	9330.000	37.89	9.16	47.05	74.00	-26.95	peak
3	11715.000	35.79	12.99	48.78	74.00	-25.22	peak
4	13935.000	33.37	16.15	49.52	74.00	-24.48	peak
5	16455.000	31.78	19.00	50.78	74.00	-23.22	peak
6	17715.000	30.69	22.56	53.25	74.00	-20.75	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)

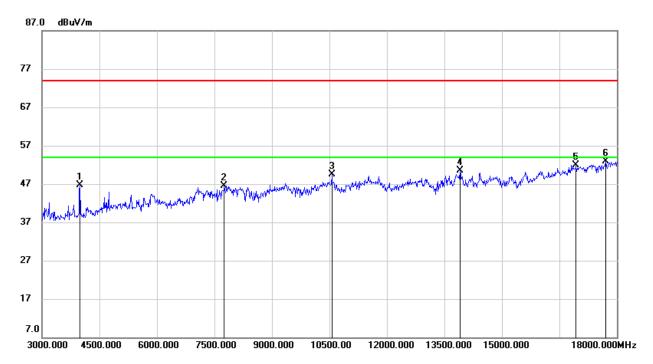


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5895.000	40.04	4.86	44.90	74.00	-29.10	peak
2	8160.000	38.63	8.18	46.81	74.00	-27.19	peak
3	11715.000	35.58	12.99	48.57	74.00	-25.43	peak
4	13875.000	33.55	16.44	49.99	74.00	-24.01	peak
5	17115.000	32.10	20.68	52.78	74.00	-21.22	peak
6	17715.000	30.46	22.56	53.02	74.00	-20.98	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)

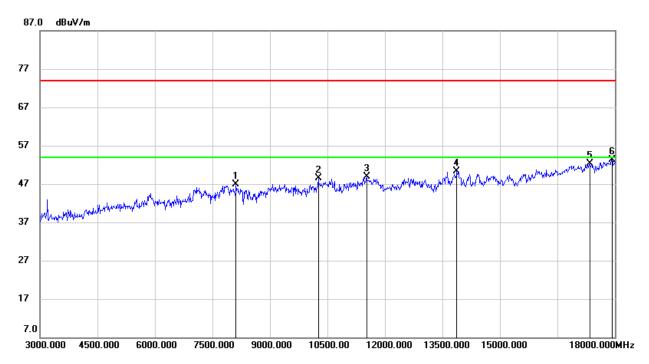


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	3990.000	49.63	-2.89	46.74	74.00	-27.26	peak
2	7755.000	39.13	7.29	46.42	74.00	-27.58	peak
3	10560.000	37.72	11.73	49.45	74.00	-24.55	peak
4	13905.000	34.38	16.20	50.58	74.00	-23.42	peak
5	16935.000	31.82	20.12	51.94	74.00	-22.06	peak
6	17700.000	30.42	22.43	52.85	74.00	-21.15	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)

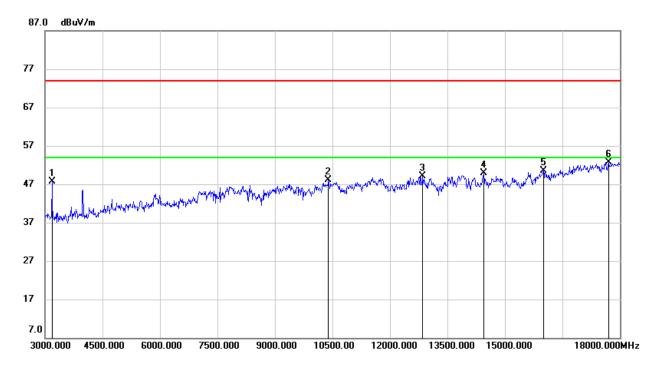


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	8115.000	38.96	7.90	46.86	74.00	-27.14	peak
2	10260.000	37.74	10.71	48.45	74.00	-25.55	peak
3	11520.000	35.59	13.38	48.97	74.00	-25.03	peak
4	13875.000	33.84	16.44	50.28	74.00	-23.72	peak
5	17340.000	30.73	21.61	52.34	74.00	-21.66	peak
6	17925.000	29.97	23.37	53.34	74.00	-20.66	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	3180.000	52.13	-4.33	47.80	74.00	-26.20	peak
2	10395.000	37.09	10.98	48.07	74.00	-25.93	peak
3	12855.000	33.90	15.23	49.13	74.00	-24.87	peak
4	14445.000	33.61	16.36	49.97	74.00	-24.03	peak
5	16005.000	32.76	17.71	50.47	74.00	-23.53	peak
6	17700.000	30.34	22.43	52.77	74.00	-21.23	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.

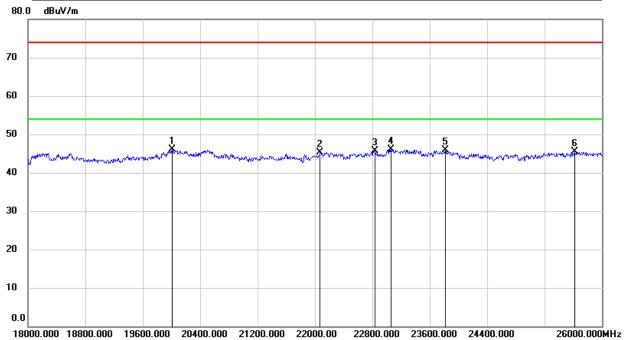
Note: All the modes had been tested, but only the worst data was recorded in the report.



8.5. SPURIOUS EMISSIONS (18 GHz ~ 26 GHz)

8.5.1. 802.11b MODE

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



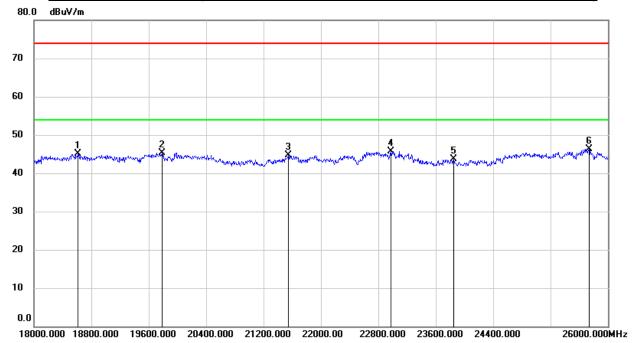
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	20008.000	51.53	-5.46	46.07	74.00	-27.93	peak
2	22072.000	49.77	-4.41	45.36	74.00	-28.64	peak
3	22840.000	49.26	-3.60	45.66	74.00	-28.34	peak
4	23064.000	49.49	-3.42	46.07	74.00	-27.93	peak
5	23816.000	48.89	-3.08	45.81	74.00	-28.19	peak
6	25616.000	46.68	-1.24	45.44	74.00	-28.56	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	18616.000	50.39	-5.34	45.05	74.00	-28.95	peak
2	19784.000	50.57	-5.28	45.29	74.00	-28.71	peak
3	21544.000	49.26	-4.63	44.63	74.00	-29.37	peak
4	22976.000	49.26	-3.46	45.80	74.00	-28.20	peak
5	23848.000	46.68	-3.03	43.65	74.00	-30.35	peak
6	25736.000	46.94	-0.68	46.26	74.00	-27.74	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.

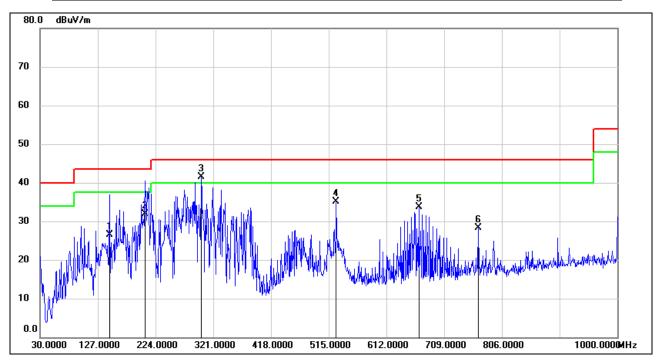
Note: All the modes had been tested, but only the worst data was recorded in the report.



8.6. SPURIOUS EMISSIONS (30 MHz ~ 1 GHz)

8.6.1. 802.11b MODE

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



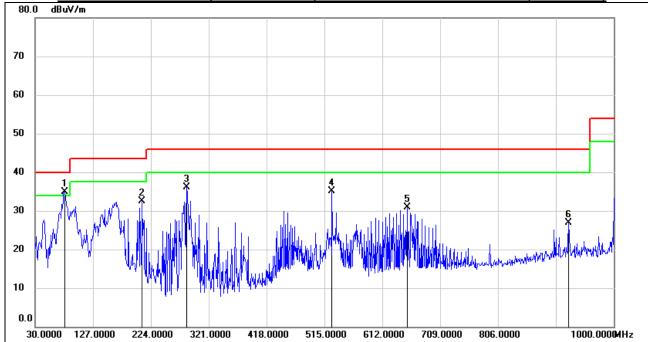
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	146.4000	45.13	-18.70	26.43	43.50	-17.07	QP
2	206.5399	49.01	-17.11	31.90	43.50	-11.60	QP
3	300.6300	57.10	-15.57	41.53	46.00	-4.47	QP
4	527.6100	46.20	-11.13	35.07	46.00	-10.93	QP
5	666.3200	42.84	-9.18	33.66	46.00	-12.34	QP
6	766.2300	36.56	-8.16	28.40	46.00	-17.60	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.







No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	79.4700	56.33	-21.45	34.88	40.00	-5.12	QP
2	209.4500	49.89	-17.47	32.42	43.50	-11.08	QP
3	284.1400	52.89	-16.78	36.11	46.00	-9.89	QP
4	527.6100	46.26	-11.13	35.13	46.00	-10.87	QP
5	653.7100	40.27	-9.38	30.89	46.00	-15.11	QP
6	924.3400	32.35	-5.49	26.86	46.00	-19.14	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 had been tested, but only the worst data was recorded in the report.

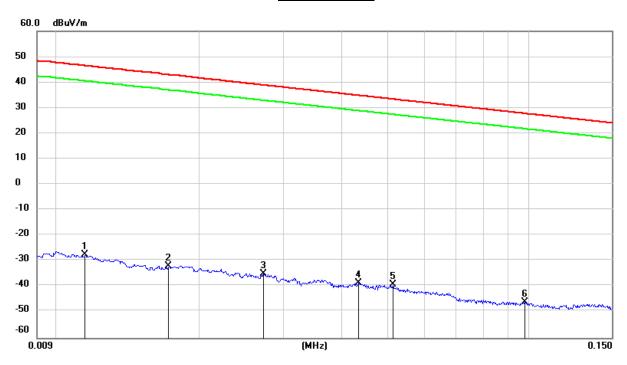


8.7. SPURIOUS EMISSIONS BELOW 30 MHz

8.7.1. 802.11b MODE

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

9 kHz~ 150 kHz



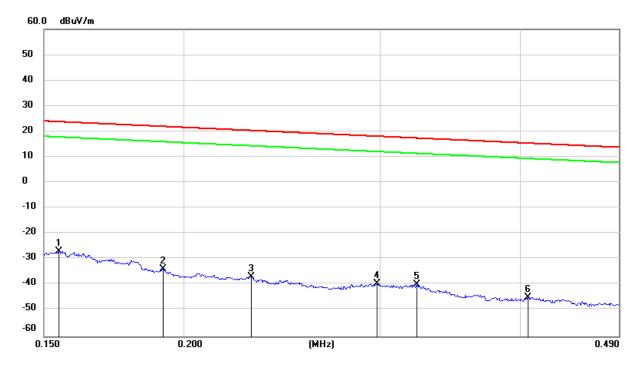
No.	Frequency	Reading	Correct	Result	Limit	ISED Result	ISED Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dBuA/m)	(dBuA/m)	(dB)	
1	0.0114	73.88	-101.40	-27.52	46.46	-79.02	-5.04	-73.98	peak
2	0.0171	69.38	-101.36	-31.98	42.94	-83.48	-8.56	-74.92	peak
3	0.0273	66.49	-101.38	-34.89	38.88	-86.39	-12.62	-73.77	peak
4	0.0434	63.04	-101.45	-38.41	34.85	-89.91	-16.65	-73.26	peak
5	0.0514	62.18	-101.48	-39.30	33.38	-90.80	-18.12	-72.68	peak
6	0.0981	55.77	-101.78	-46.01	27.77	-97.51	-23.73	-73.78	peak

Note: 1. Measurement = Reading Level + Correct Factor (dBuA/m= dBuV/m- 20Log10[120 π] = dBuV/m- 51.5).

- 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



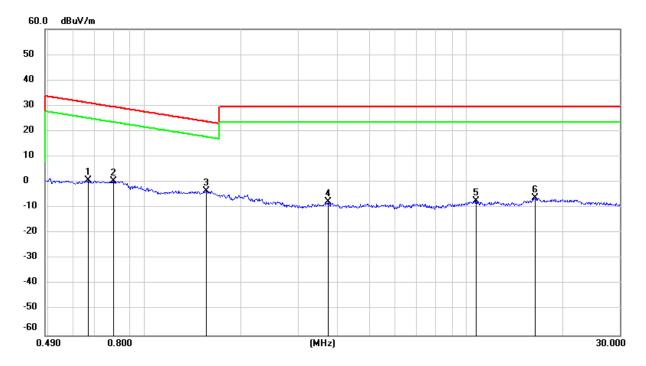
No.	Frequency	Reading	Correct	Result	Limit	ISED	ISED	Margin	Remark
						Result	Limit		
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dBuA/m)	(dBuA/m)	(dB)	
1	0.1547	74.81	-101.65	-26.84	23.81	-78.34	-27.69	-50.65	peak
2	0.1917	68.04	-101.70	-33.66	21.95	-85.16	-29.55	-55.61	peak
3	0.2298	65.05	-101.77	-36.72	20.37	-88.22	-31.13	-57.09	peak
4	0.2977	62.41	-101.85	-39.44	18.13	-90.94	-33.37	-57.57	peak
5	0.3234	61.98	-101.88	-39.90	17.41	-91.40	-34.09	-57.31	peak
6	0.4062	57.14	-101.96	-44.82	15.43	-96.32	-36.07	-60.25	peak

Note: 1. Measurement = Reading Level + Correct Factor (dBuA/m= dBuV/m- $20Log10[120\pi]$ = dBuV/m- 51.5).

- 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	Result	Limit	ISED	ISED	Margin	Remark
						Result	Limit		
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dBuA/m)	(dBuA/m)	(dB)	
1	0.6671	62.75	-62.10	0.65	31.12	-50.85	-20.38	-30.47	peak
2	0.7993	62.72	-62.15	0.57	29.55	-50.93	-21.95	-28.98	peak
3	1.5564	58.68	-62.02	-3.34	23.76	-54.84	-27.74	-27.10	peak
4	3.7100	53.70	-61.41	-7.71	29.54	-59.21	-21.96	-37.25	peak
5	10.7299	53.48	-60.83	-7.35	29.54	-58.85	-21.96	-36.89	peak
6	16.3959	54.67	-60.96	-6.29	29.54	-57.79	-21.96	-35.83	peak

Note: 1. Measurement = Reading Level + Correct Factor (dBuA/m= dBuV/m- $20Log10[120\pi]$ = dBuV/m- 51.5).

- 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

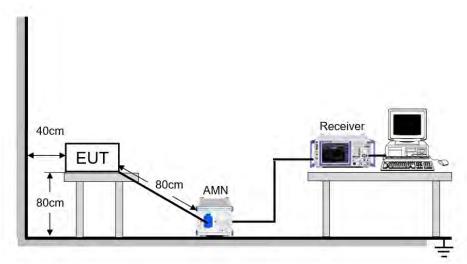
LIMITS

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 80 cm 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.

TEST ENVIRONMENT

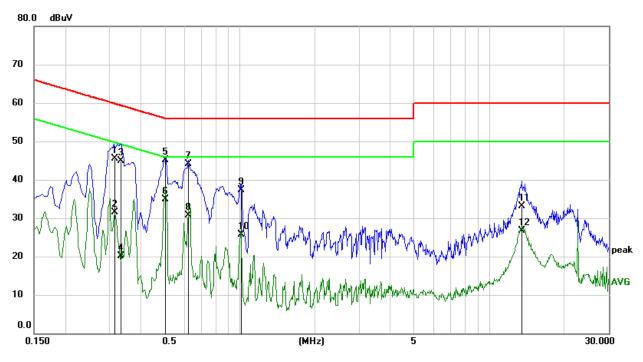
Temperature	23.4 °C	Relative Humidity	65.1 %
Atmosphere Pressure	101 kPa	Test Voltage	AC 120 V, 60 Hz



RESULTS

9.1. 802.11b MODE

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



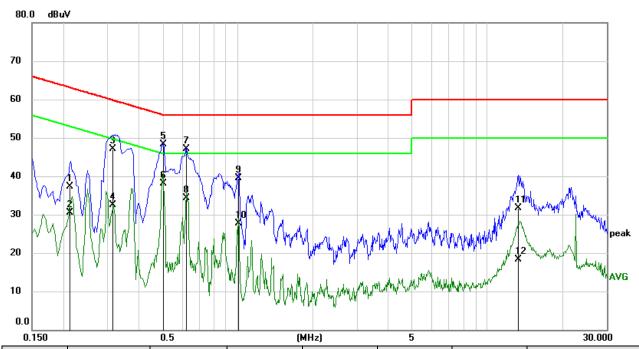
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dB)	
1	0.3175	35.86	9.60	45.46	59.77	-14.31	QP
2	0.3175	21.88	9.60	31.48	49.77	-18.29	AVG
3	0.3330	35.22	9.60	44.82	59.38	-14.56	QP
4	0.3330	10.43	9.60	20.03	49.38	-29.35	AVG
5	0.5081	35.54	9.60	45.14	56.00	-10.86	QP
6	0.5081	25.27	9.60	34.87	46.00	-11.13	AVG
7	0.6202	34.56	9.60	44.16	56.00	-11.84	QP
8	0.6202	21.14	9.60	30.74	46.00	-15.26	AVG
9	1.0131	27.69	9.61	37.30	56.00	-18.70	QP
10	1.0131	16.17	9.61	25.78	46.00	-20.22	AVG
11	13.4062	23.28	9.85	33.13	60.00	-26.87	QP
12	13.4062	16.88	9.85	26.73	50.00	-23.27	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	0.2118	27.79	9.60	37.39	63.13	-25.74	QP
2	0.2118	20.85	9.60	30.45	53.13	-22.68	AVG
3	0.3172	37.42	9.60	47.02	59.78	-12.76	QP
4	0.3172	22.89	9.60	32.49	49.78	-17.29	AVG
5	0.5066	38.67	9.60	48.27	56.00	-7.73	QP
6	0.5066	28.50	9.60	38.10	46.00	-7.90	AVG
7	0.6199	37.54	9.60	47.14	56.00	-8.86	QP
8	0.6199	24.70	9.60	34.30	46.00	-11.70	AVG
9	1.0105	29.85	9.61	39.46	56.00	-16.54	QP
10	1.0105	18.16	9.61	27.77	46.00	-18.23	AVG
11	13.2874	21.86	9.82	31.68	60.00	-28.32	QP
12	13.2874	8.43	9.82	18.25	50.00	-31.75	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.



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



APPENDIX A: DUTY CYCLE

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	12.41	12.47	0.9952	99.52	0.02	0.08	0.01
11g	2.065	2.20	0.9386	93.86	0.28	0.48	1
11n HT20	1.92	2.035	0.9435	94.35	0.25	0.52	1
11n HT40	0.945	1.068	0.8848	88.48	0.53	1.06	2

Note:

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

Where: x is Duty Cycle (Linear)

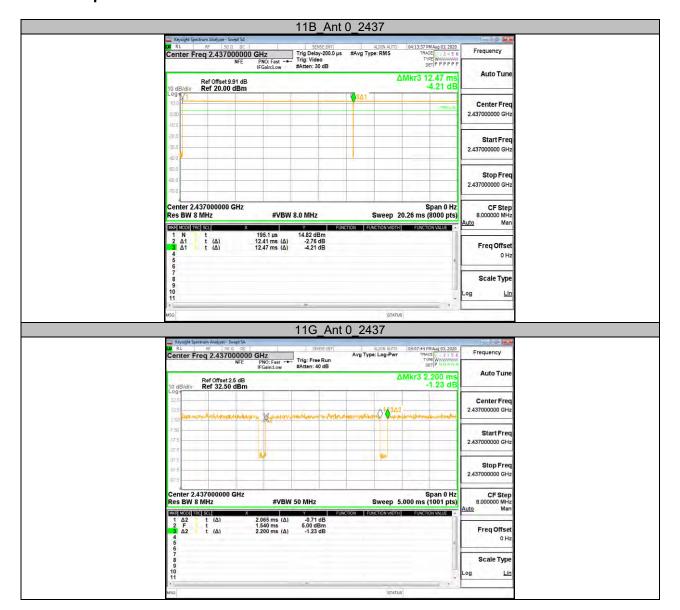
Where: T is On Time

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

used. And the duty cycle is greater than 98%, it can set VBW to 10Hz.



Test Graphs





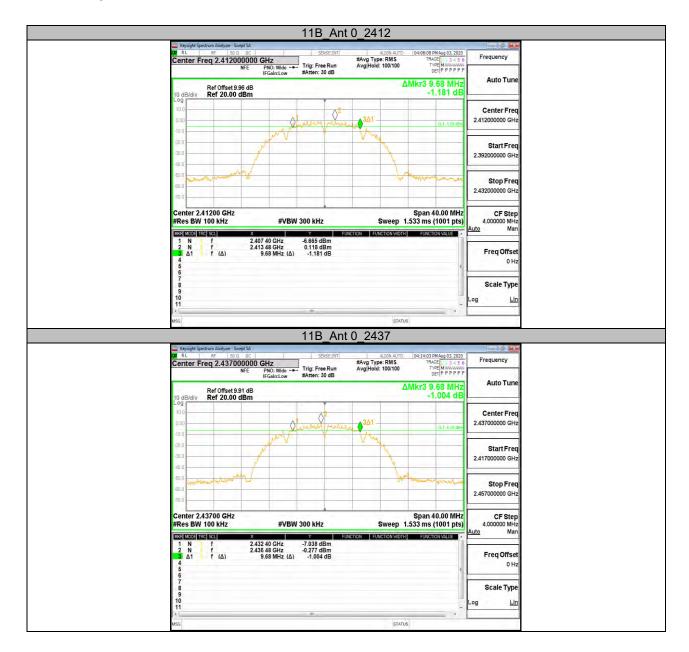




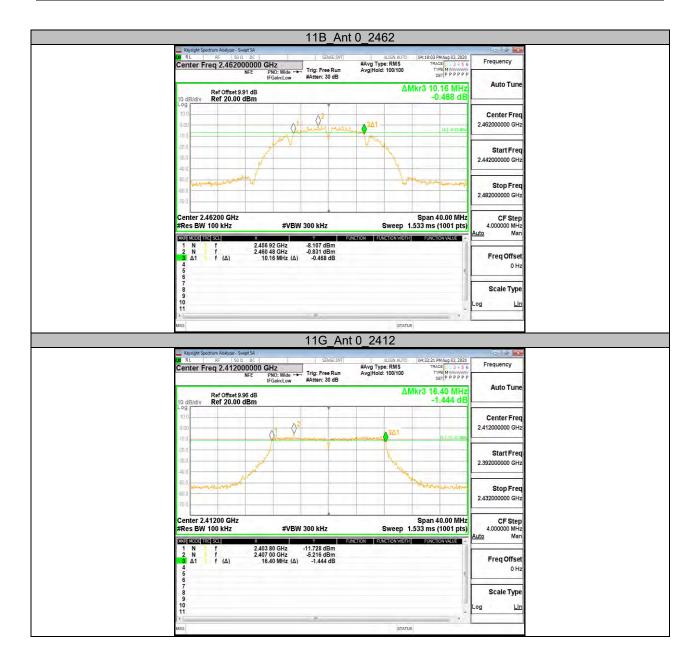
APPENDIX B: DTS BANDWIDTH

Test Mode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
		2412	9.680	2407.400	2417.080	0.5	PASS
11B	Ant 0	2437	9.680	2432.400	2442.080	0.5	PASS
		2462	10.160	2456.920	2467.080	0.5	PASS
		2412	16.400	2403.800	2420.200	0.5	PASS
11G	Ant 0	2437	16.400	2428.800	2445.200	0.5	PASS
		2462	16.400	2453.800	2470.200	0.5	PASS
		2412	17.600	2403.200	2420.800	0.5	PASS
11N20SISO	Ant 0	2437	17.000	2428.560	2445.560	0.5	PASS
		2462	17.600	2453.200	2470.800	0.5	PASS
		2422	35.600	2404.400	2440.000	0.5	PASS
11N40SISO	Ant 0	2437	35.600	2419.400	2455.000	0.5	PASS
		2452	34.960	2434.640	2469.600	0.5	PASS





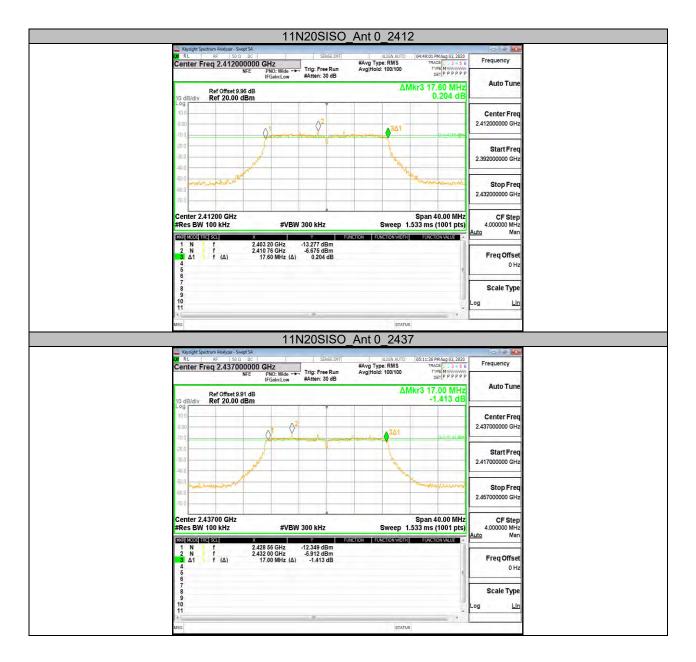




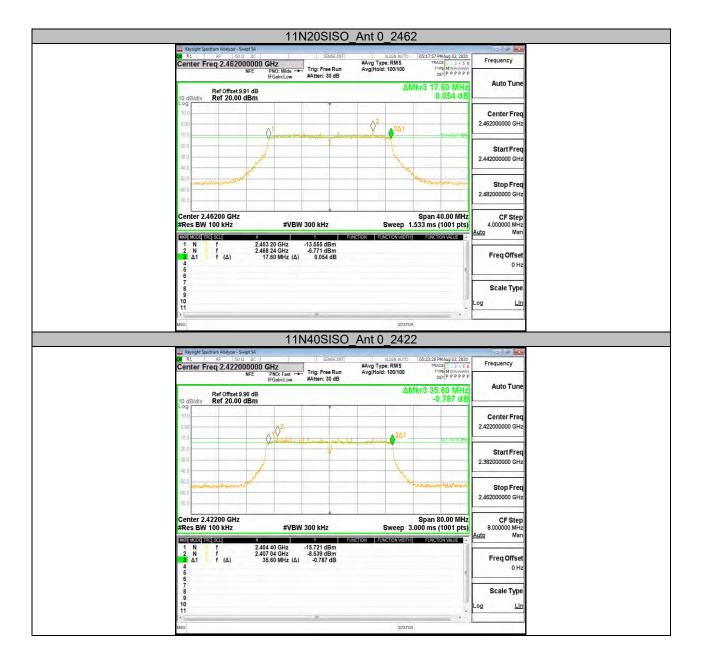




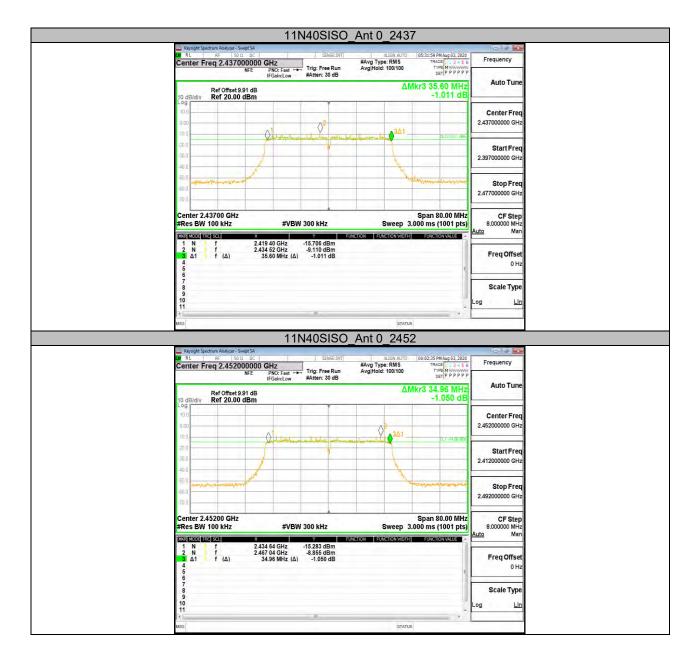










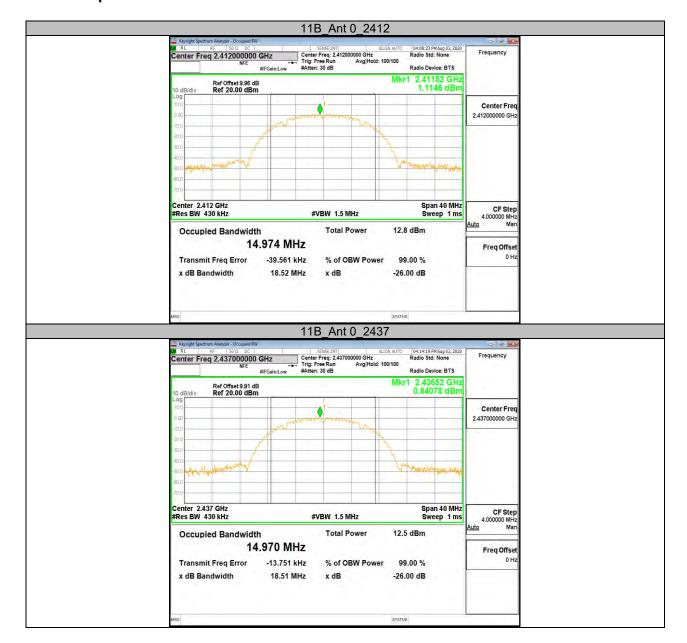




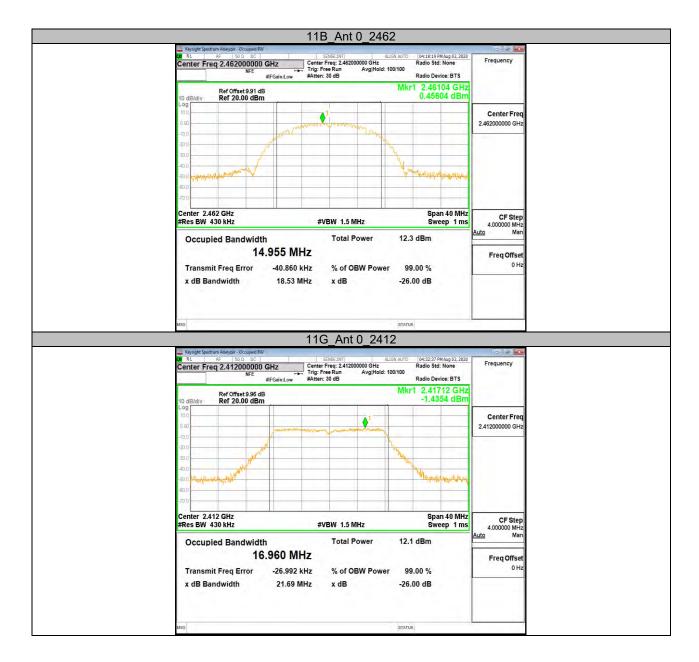
APPENDIX C: OCCUPIED CHANNEL BANDWIDTH

Test Mode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Verdict
		2412	14.974	2404.473	2419.447	PASS
11B	Ant 0	2437	14.970	2429.501	2444.471	PASS
		2462	14.955	2454.482	2469.437	PASS
		2412	16.960	2403.493	2420.453	PASS
11G	Ant 0	2437	16.962	2428.486	2445.448	PASS
		2462	16.914	2453.506	2470.420	PASS
		2412	17.916	2403.046	2420.962	PASS
11N20SISO	Ant 0	2437	17.972	2427.998	2445.970	PASS
		2462	17.892	2453.015	2470.907	PASS
11N40SISO		2422 36.364 2403.846	2440.210	PASS		
	Ant 0	2437	36.390	2418.824	2455.214	PASS
		2452	36.451	2433.764	2470.215	PASS

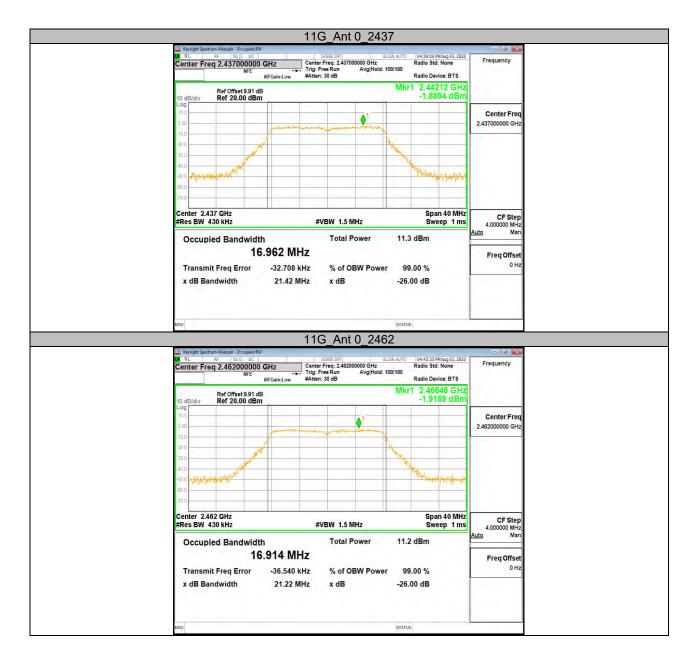




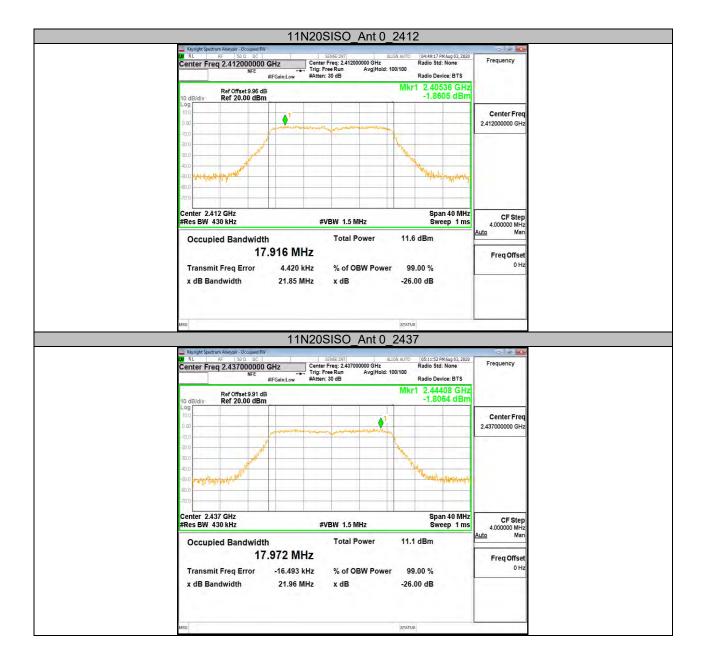




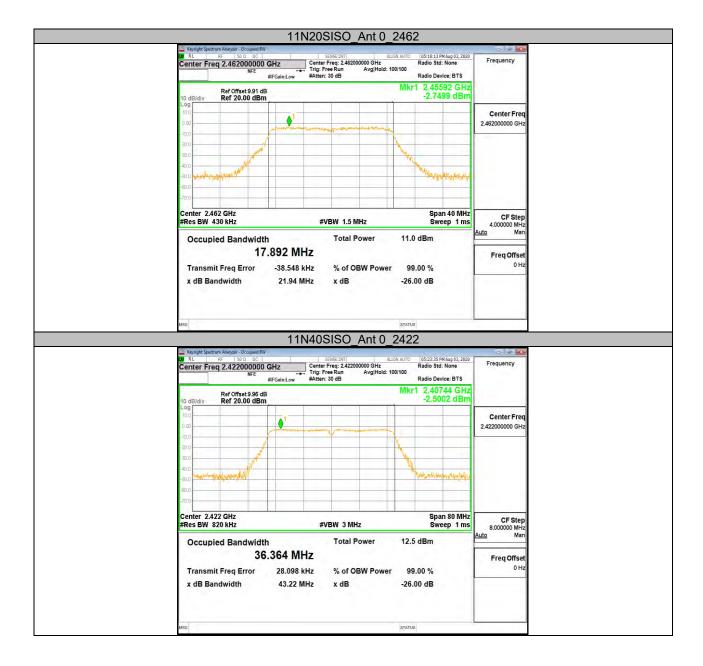




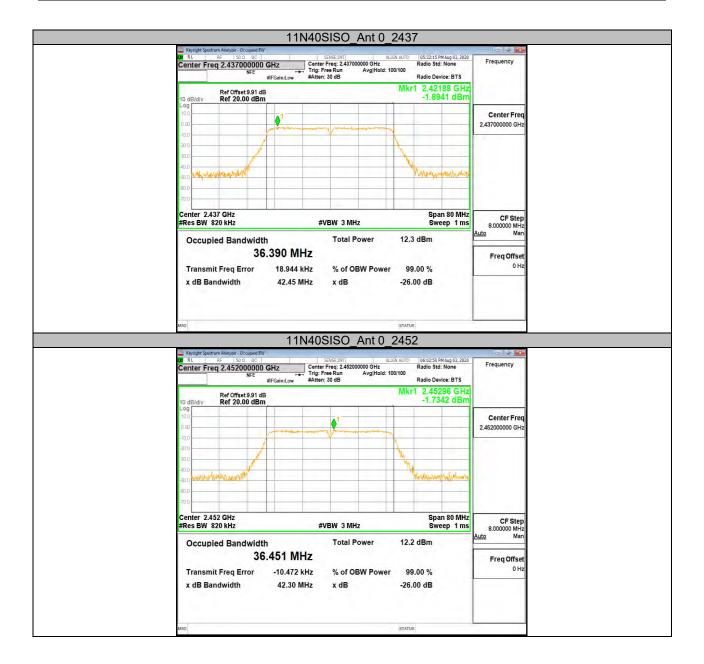














APPENDIX D: CONDUCTED AVERAEG OUTPUT POWER

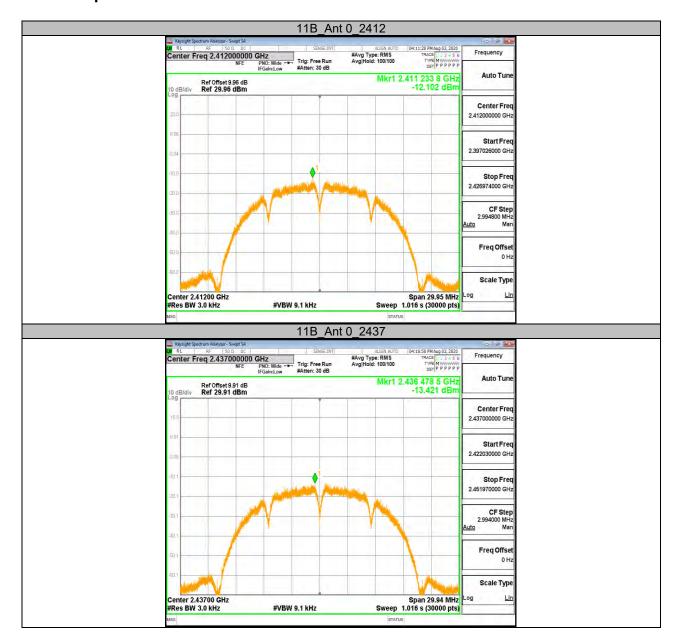
Test Mode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
		2412	9.69	<=30	PASS
11B	Ant 0	2437	9.24	<=30	PASS
		2462	9.20	<=30	PASS
		2412	5.86	<=30	PASS
11G	Ant 0	2437	5.07	<=30	PASS
		2462	5.22	<=30	PASS
11N20SISO		2412	5.61	<=30	PASS
	Ant 0	2437	5.05	<=30	PASS
		2462	4.96	<=30	PASS
11N40SISO		2422 5.61		<=30	PASS
	Ant 0	2437	5.59	<=30	PASS
		2452	5.31	<=30	PASS



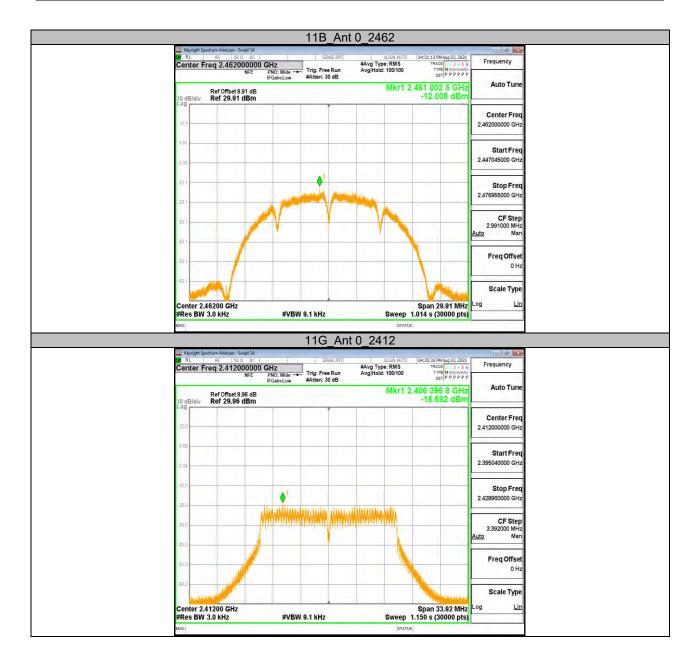
APPENDIX E: POWER AVERAGE SPECTRAL DENSITY

Test Mode	Antenna	Channel	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
		2412	-12.10	<=8	PASS
11B	Ant 0	2437	-13.42	<=8	PASS
		2462	-12.01	<=8	PASS
11G	Ant 0	2412	-18.68	<=8	PASS
		2437	-19.00	<=8	PASS
		2462	-19.23	<=8	PASS
11N20SISO	Ant 0	2412	-18.85	<=8	PASS
		2437	-19.68	<=8	PASS
		2462	-20.28	<=8	PASS
11N40SISO	Ant 0	2422	-22.42	<=8	PASS
		2437	-21.71	<=8	PASS
		2452	-21 52	<=8	PASS

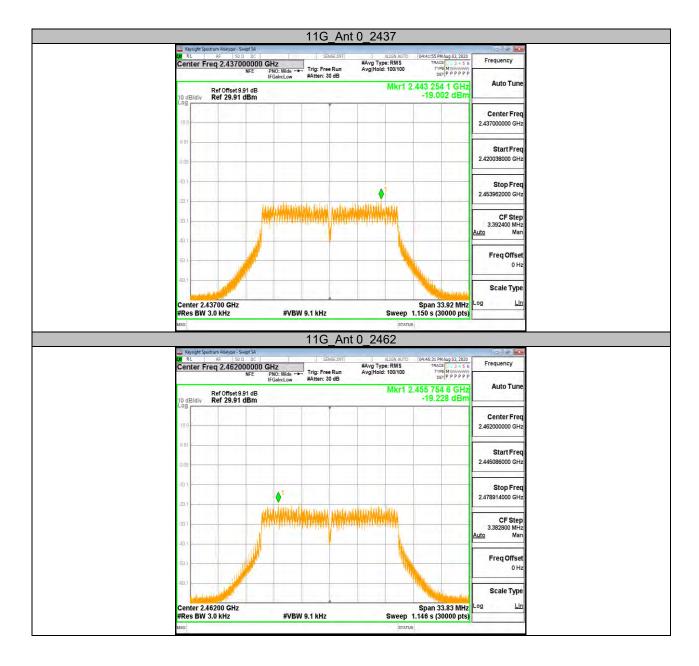




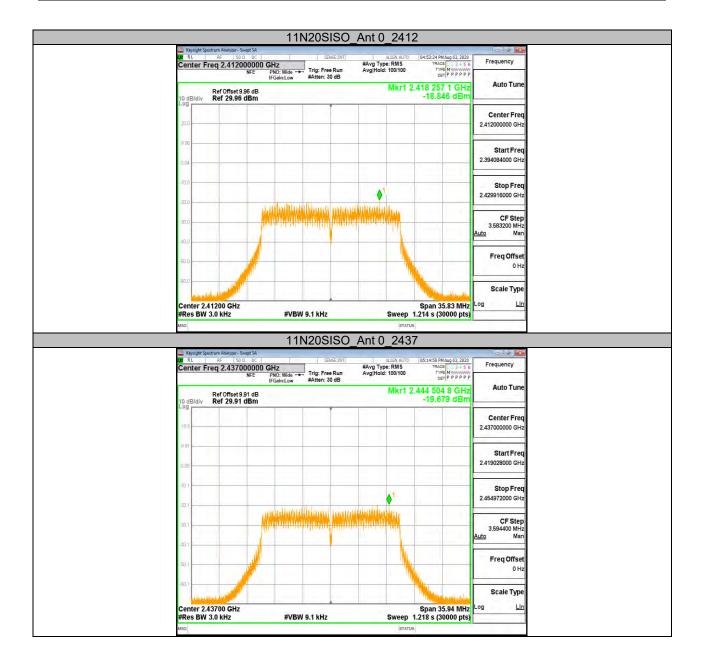




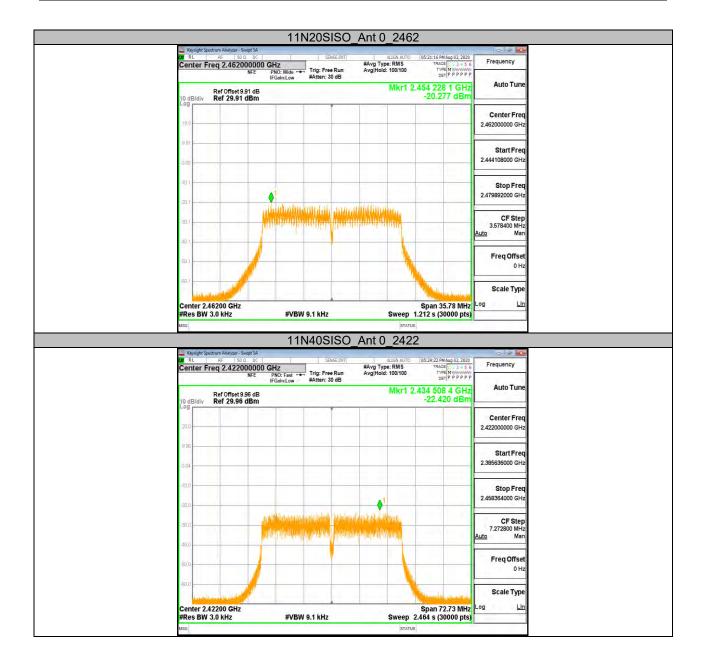




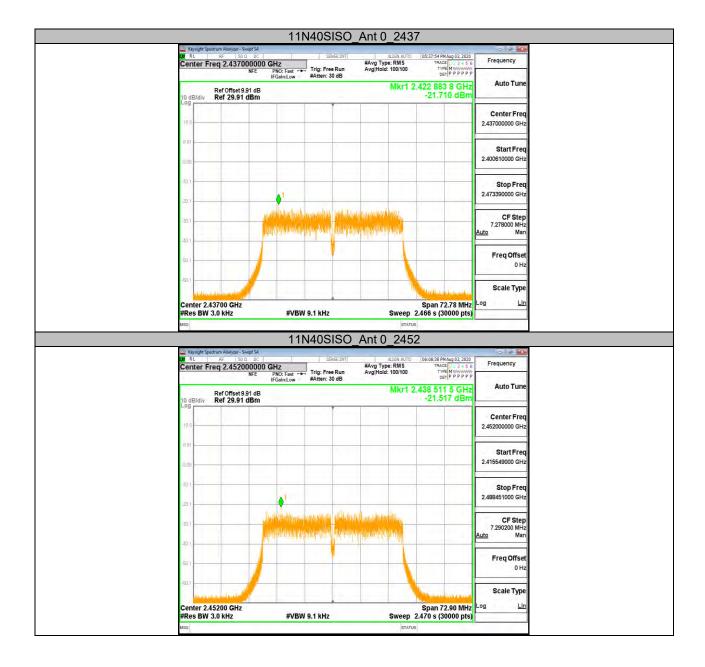














APPENDIX F: CONDUCTED BANDEDGE

Test Mode	Antenna	Ch Name	Channel	Ref Level[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	44D A-+ 0	Low	2412	0.52	-44.96	<=-29.48	PASS
IID AIII	Ant 0	High	2462	0.14	-50.61	<=-29.86	PASS
11G Ant	Ant O	Low	2412	-5.22	-43.66	<=-35.22	PASS
	Antu	High	2462	-6.03	-50.47	<=-36.03	PASS
11N20SISO Ant 0	Low	2412	-5.24	-45.37	<=-35.24	PASS	
	Antu	High	2462	-5.78	-50.21	<=-35.78	PASS
11N40SISO	Ant O	Low	2422	-8.43	-45.42	<=-38.43	PASS
	Ant 0	High	2452	-8.88	-49.68	<=-38.88	PASS



















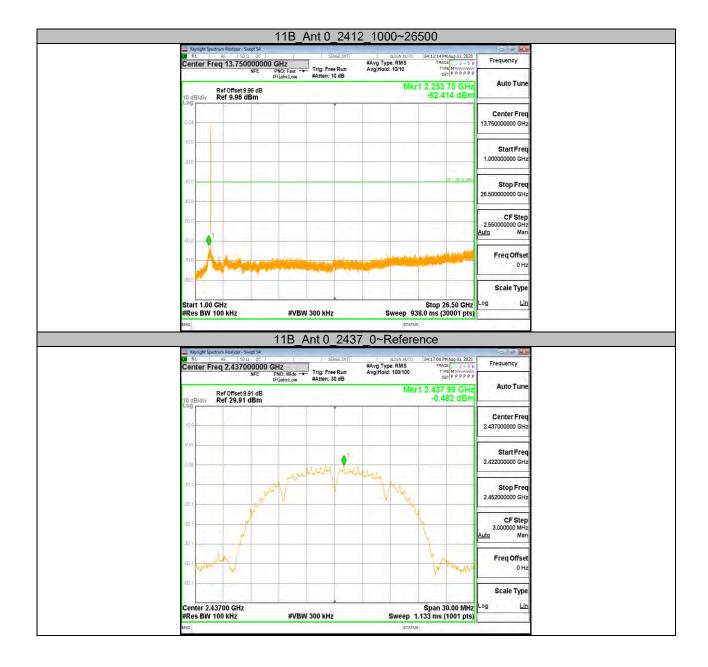
APPENDIX G: CONDUCTED SPURIOUS EMISSION

Test Mode	Antenna	Channel	FreqRange [Mhz]	Ref Level	Result [dBm]	Limit [dBm]	Verdict
11B		2412	Reference	-0.48	-0.48		PASS
			30~1000	30~1000	-73.17	<=-30.477	PASS
			1000~26500	1000~26500	-62.414	<=-30.477	PASS
		2437	Reference	-0.48	-0.48		PASS
	Ant 0		30~1000	30~1000	-72.909	<=-30.482	PASS
			1000~26500	1000~26500	-62.694	<=-30.482	PASS
			Reference	-0.69	-0.69		PASS
		2462	30~1000	30~1000	-72.612	<=-30.685	PASS
			1000~26500	1000~26500	-64.005	<=-30.685	PASS
			Reference	-8.15	-8.15		PASS
		2412	30~1000	30~1000	-73.345	<=-38.149	PASS
			1000~26500	1000~26500	-63.756	<=-38.149	PASS
		2437	Reference	-6.41	-6.41		PASS
11G	Ant 0		30~1000	30~1000	-73.027	<=-36.406	PASS
			1000~26500	1000~26500	-63.897	<=-36.406	PASS
		2462	Reference	-5.99	-5.99		PASS
			30~1000	30~1000	-72.716	<=-35.985	PASS
			1000~26500	1000~26500	-59.09	<=-35.985	PASS
	Ant 0	2412	Reference	-5.26	-5.26	-	PASS
			30~1000	30~1000	-72.498	<=-35.263	PASS
			1000~26500	1000~26500	-63.302	<=-35.263	PASS
		Ant 0 2437 2462	Reference	-7.28	-7.28	-	PASS
11N20SISO			30~1000	30~1000	-72.469	<=-37.279	PASS
			1000~26500	1000~26500	-64.487	<=-37.279	PASS
			Reference	-6.08	-6.08	-	PASS
			30~1000	30~1000	-72.021	<=-36.084	PASS
			1000~26500	1000~26500	-64.26	<=-36.084	PASS
		2422	Reference	-8.70	-8.70	-	PASS
			30~1000	30~1000	-72.806	<=-38.697	PASS
			1000~26500	1000~26500	-63.813	<=-38.697	PASS
	Ant 0	Ant 0 2437 2452	Reference	-8.73	-8.73		PASS
11N40SISO			30~1000	30~1000	-73.063	<=-38.726	PASS
			1000~26500	1000~26500	-64.018	<=-38.726	PASS
			Reference	-9.70	-9.70		PASS
			30~1000	30~1000	-72.98	<=-39.698	PASS
			1000~26500	1000~26500	-63.677	<=-39.698	PASS

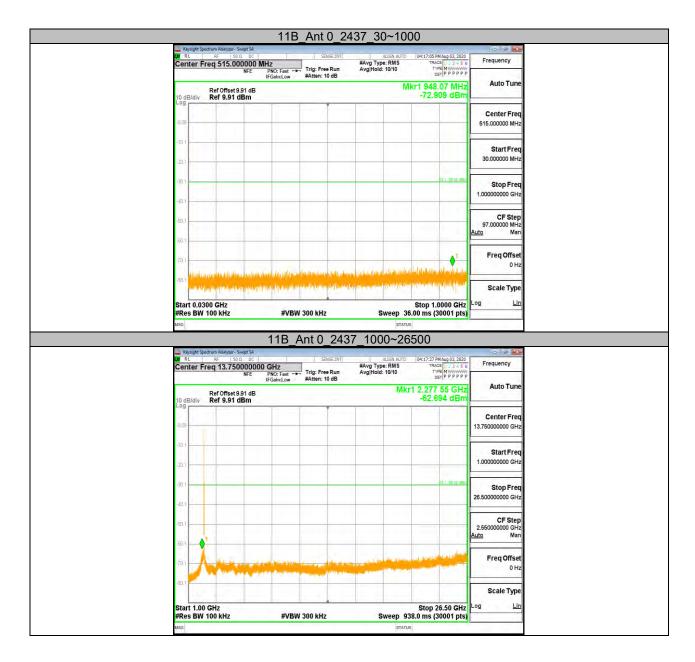




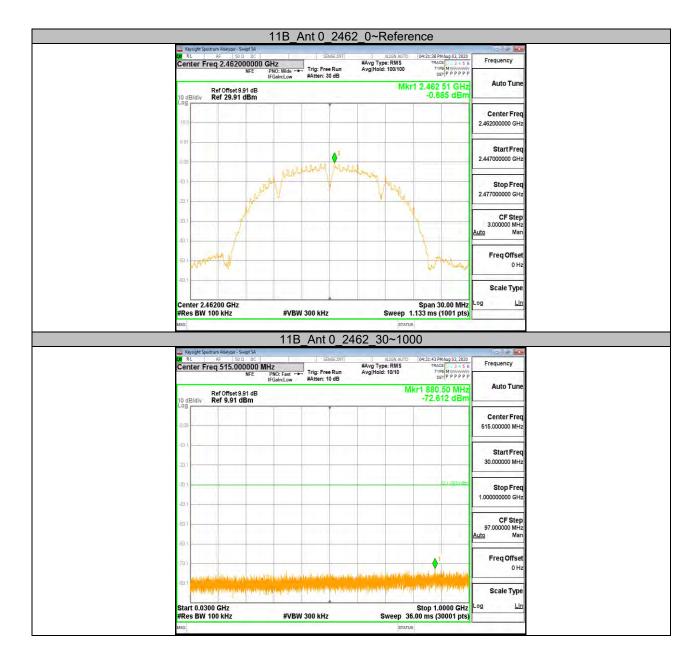




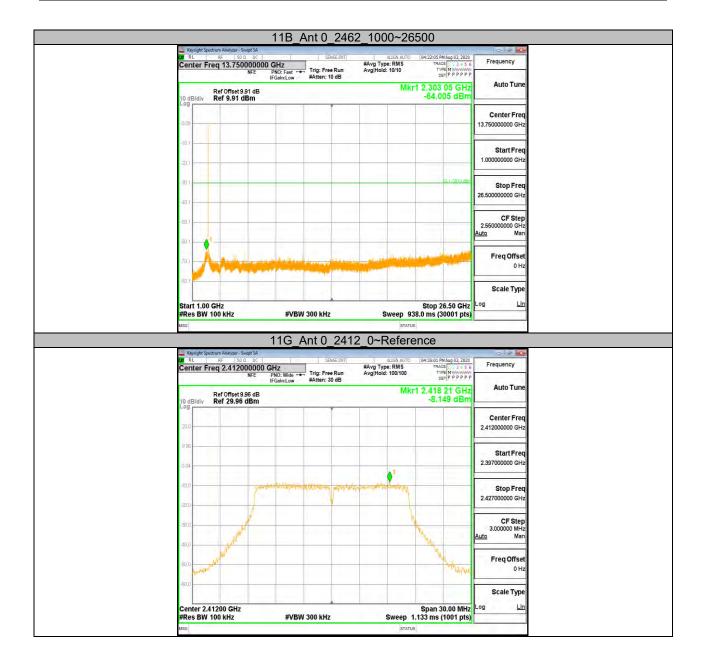




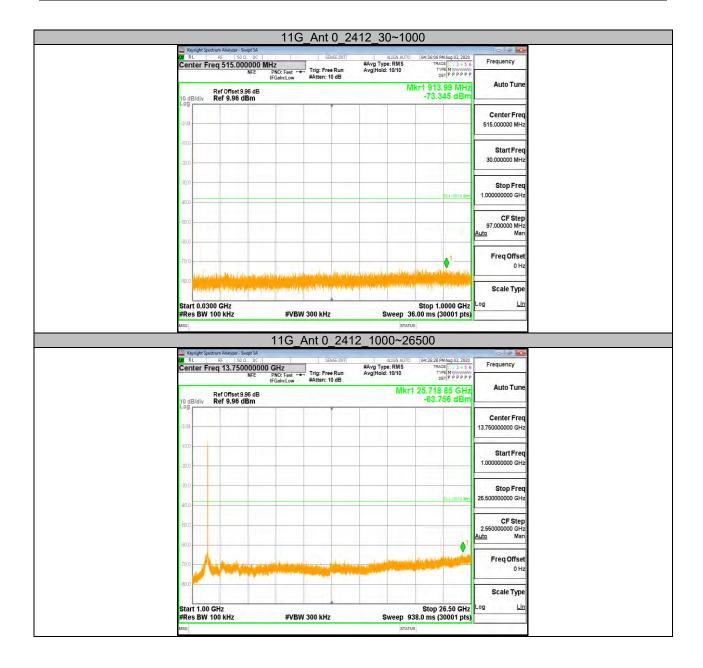




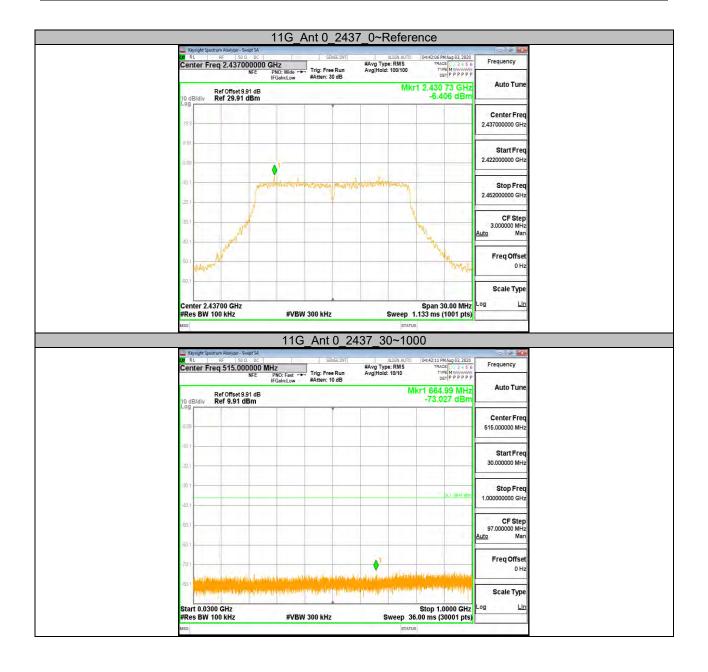




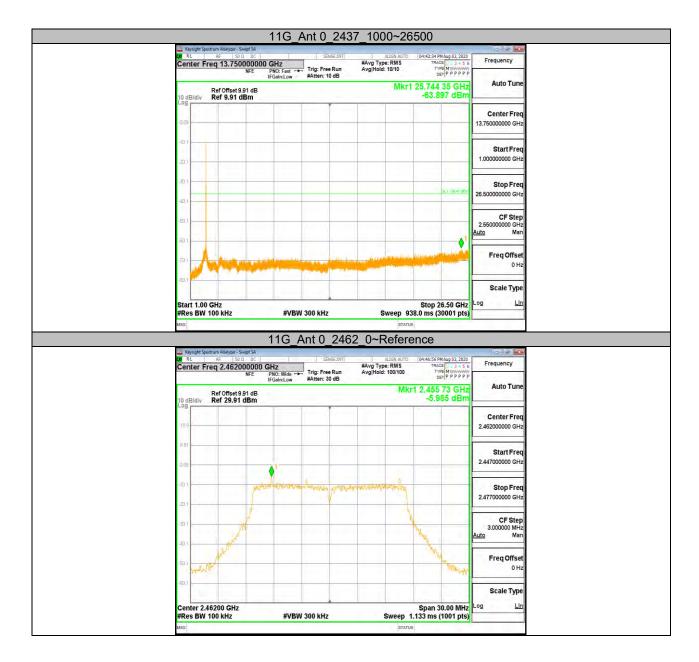




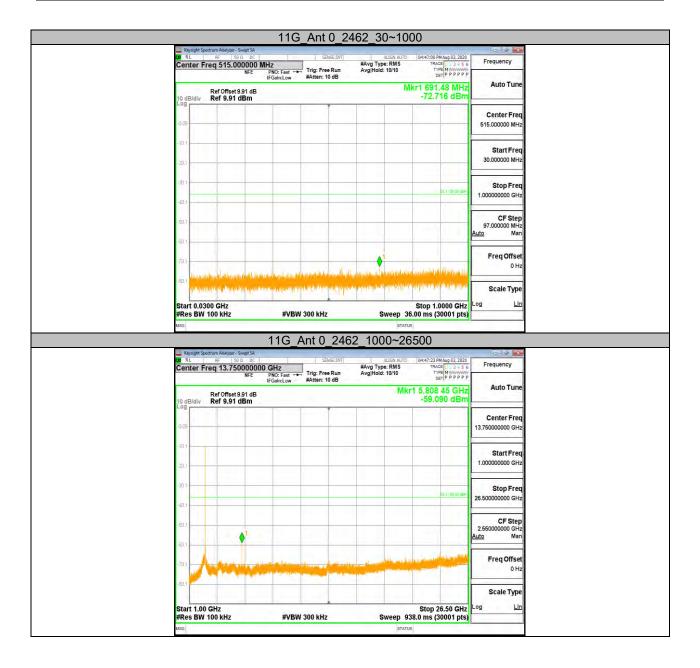




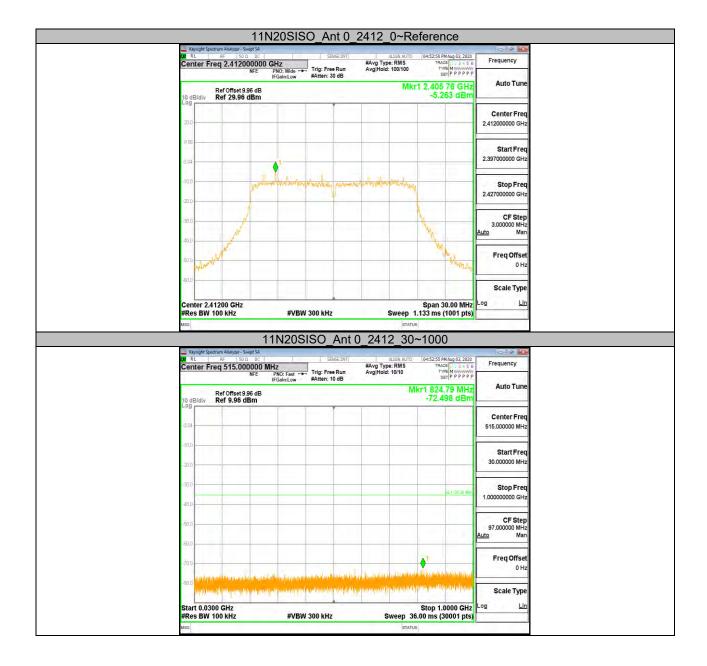




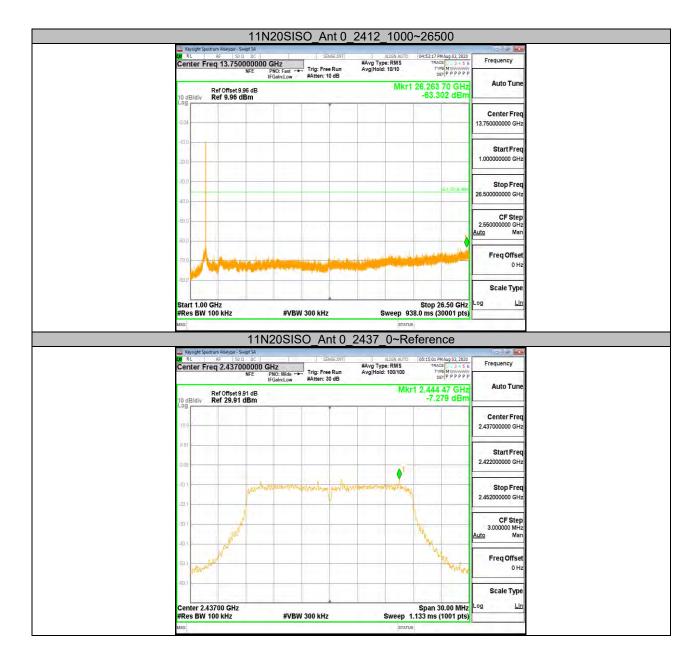








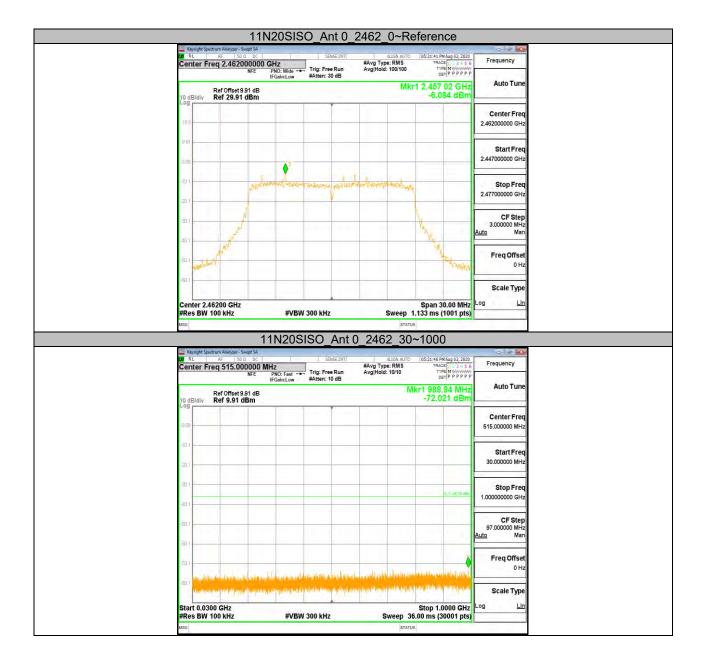




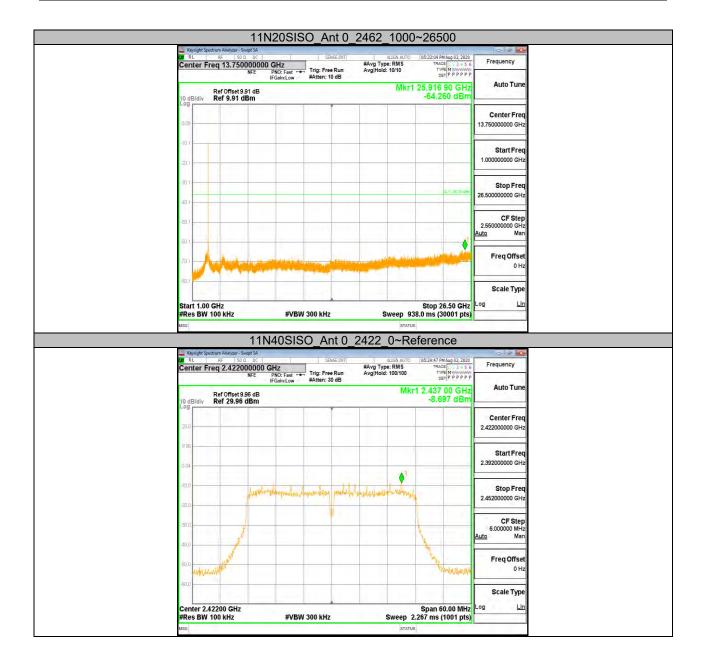




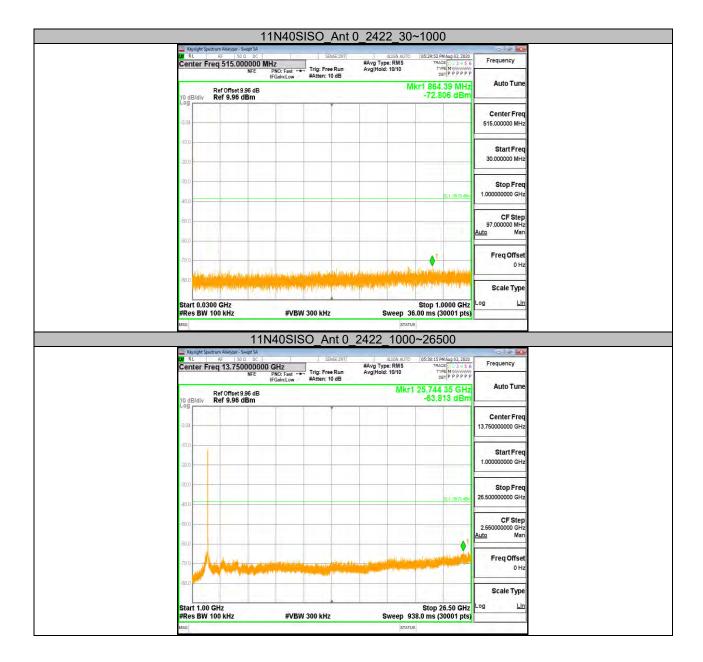




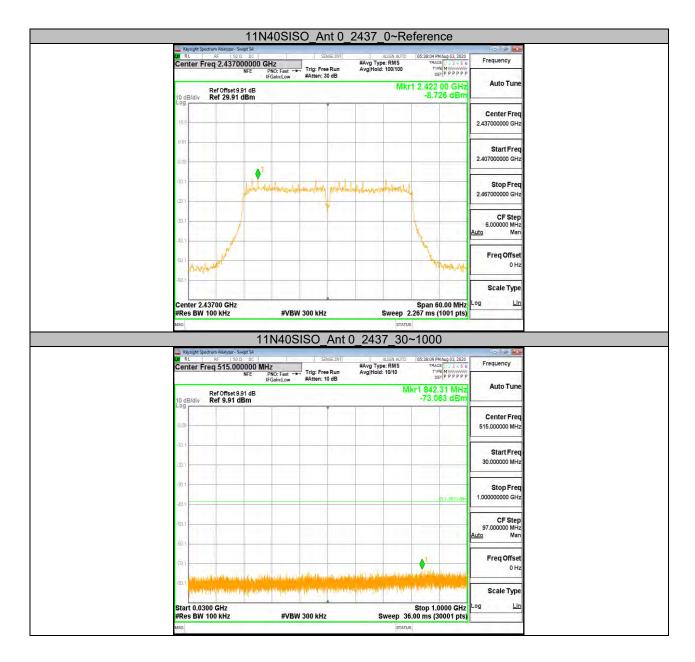




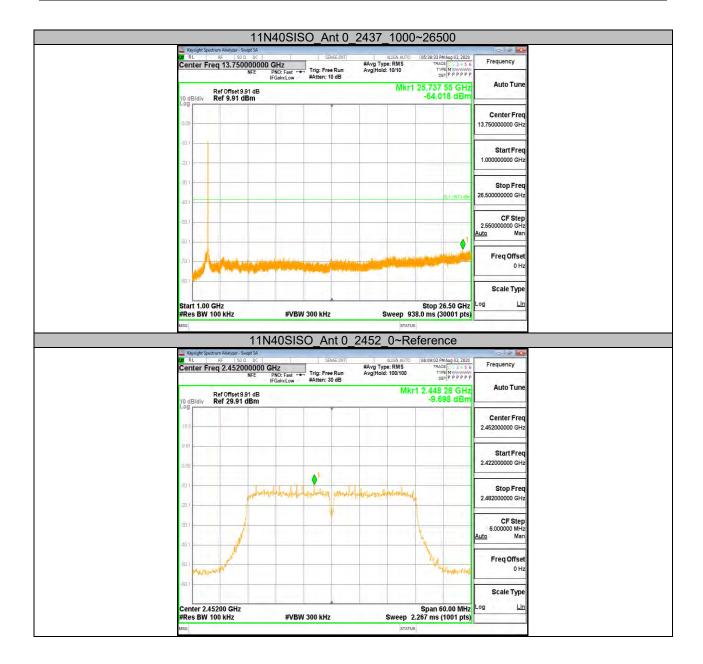




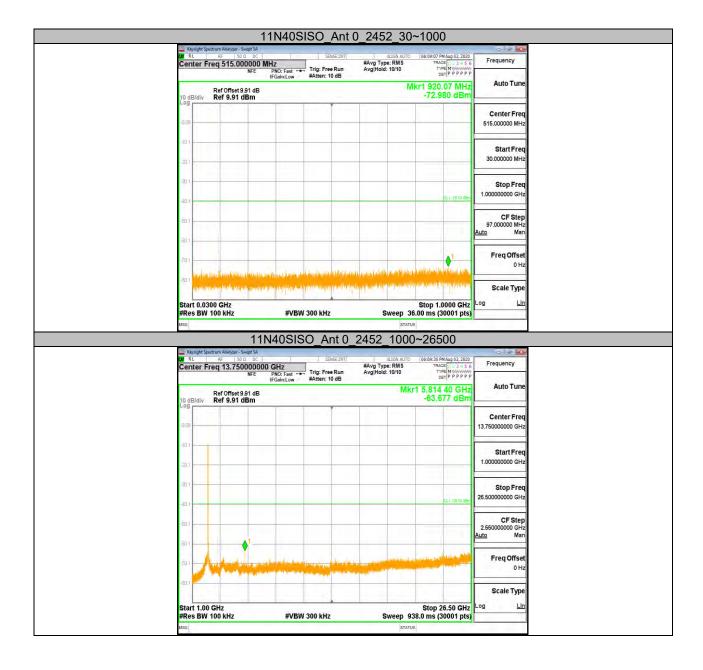












END OF REPORT