





CFR 47 FCC PART 15 SUBPART C TEST REPORT

For

DIMMER

MODEL NUMBER: HDA11FWB

FCC ID: 2AB2QHDA11FWB

REPORT NUMBER: 4789572667-3

ISSUE DATE: August 28, 2020

LEEDARSON LIGHTING CO.,Ltd.
XINGDA RD, XINGTAI INDUSTRIAL ZONE, CHANGTAI COUNTY, ZHANGZHOU,
FUJIAN, 363900, CHINA

Prepared by

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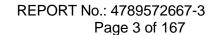
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Rev.	Issue Date	Revisions	Revised By
V0	08/28/2020	Initial Issue	





Summary of Test Results Clause **Test Items FCC Rules Test Results** 6dB Bandwidth and 99% 1 FCC Part 15.247 (a) (2) Pass Occupied Bandwidth 2 Conducted Output Power FCC Part 15.247 (b) (3) Pass 3 Power Spectral Density Pass FCC Part 15.247 (e) Conducted Bandedge and 4 FCC Part 15.247 (d) Pass Spurious Emission FCC Part 15.247 (d) Radiated Bandedge and 5 FCC Part 15.209 Pass Spurious Emission FCC Part 15.205 Conducted Emission Test For 6 FCC Part 15.207 Pass **AC Power Port** 7 Antenna Requirement FCC Part 15.203 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 >when <Accuracy Method> decision rule is applied.



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1. ATTESTATION OF TEST RESULTS

Applicant Info	rmation
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Company Name: LEEDARSON LIGHTING CO.,Ltd.

Address: XINGDA RD, XINGTAI INDUSTRIAL ZONE, CHANGTAI COUNTY,

ZHANGZHOU, FUJIAN, 363900, CHINA

Manufacturer Information

Company Name: LEEDARSON LIGHTING CO.,Ltd.

Address: XINGDA RD, XINGTAI INDUSTRIAL ZONE, CHANGTAI COUNTY,

ZHANGZHOU, FUJIAN, 363900, CHINA

EUT Information

Laboratory Manager

EUT Name: DIMMER
Model: HDA11FWB
Sample Status: Normal
Sample ID: 3220784
Sample Received Date: July 29, 2020

Date of Tested: July 29, 2020~ August 7, 2020

APPLICABLE STANDARDS				
STANDARD	TEST RESULTS			
CFR 47 FCC PART 15 SUBPART C	PASS			

CFR 47 FCC PART	15 SUBPART C	PASS
Prepared By:	Checked E	•
Kebo . zhang . Kebo Zhang Project Engineer	Shawn Wer	า
Approved By:	Laboratory	
Aephenous Stephen Guo		



2. TEST METHODOLOGY

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

3. FACILITIES AND ACCREDITATION

Accreditation Certificate	A2LA (Certificate No.: 4102.01) UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. has been assessed and proved to be in compliance with A2LA. FCC (FCC Designation No.: CN1187) UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. Has been recognized to perform compliance testing on equipment subject to the Commission's Delcaration of Conformity (DoC) and Certification rules ISED(Company No.: 21320) UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. 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.
	has been assessed and proved to be in compliance with VCCI, the
	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 30MHz, lab had performed measurements at test anechoic chamber and comparing to measurements obtained on an open field site. And these measurements below 30MHz had been correlated to measurements performed on an OFS.



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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	3.62dB	
Radiation Emission test(include Fundamental emission) (9KHz-30MHz)	2.2dB	
Radiation Emission test(include Fundamental emission) (30MHz-1GHz)	4.00dB	
Radiation Emission test (1GHz to 26GHz)(include Fundamental emission)	5.78dB (1GHz-18GHz)	
(1.5.12 to 2551.2)(missaso i anadmoniai omiosion)	5.23dB (18GHz-26GHz)	

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

Equipment	DIMMER
Model Name	HDA11FWB
Radio Technology	IEEE802.11b/g/n HT20/n HT40
Operation frequency	IEEE 802.11b: 2412MHz—2462MHz IEEE 802.11g: 2412MHz—2462MHz IEEE 802.11n HT20: 2412MHz—2462MHz IEEE 802.11n HT40: 2422MHz—2452MHz
Modulation	IEEE 802.11b: DSSS(CCK) IEEE 802.11g: OFDM(64QAM, 16QAM, QPSK, BPSK) IEEE 802.11n HT20: OFDM (64QAM, 16QAM, QPSK,BPSK) IEEE 802.11n HT40: OFDM (64QAM, 16QAM, QPSK,BPSK)
Rated Input	AC120V,60Hz

5.2. MAXIMUM OUTPUT POWER

Number of Transmit Chains (NTX)	IEE Std. 802.11	Frequency (MHz)	Channel Number	Max AV Conducted Power (dBm)
1	IEEE 802.11b	2412-2462	1-11[11]	17.74
1	IEEE 802.11g	2412-2462	1-11[11]	14.98
1	IEEE 802.11nHT20	2412-2462	1-11[11]	13.23
1	IEEE 802.11nHT40	2422-2452	3-9[7]	10.24

5.3. 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	/	/

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



5.4. TEST CHANNEL CONFIGURATION

Test Mode Test Channel		Frequency
WiFi TX(802.11b)	CH 1, CH 6, CH 11/ Low, Middle, High	2412MHz, 2437MHz, 2462MHz
WiFi TX(802.11g)	CH 1, CH 6, CH 11/ Low, Middle, High	2412MHz, 2437MHz, 2462MHz
WiFi TX(802.11n HT20)	CH 1, CH 6, CH 11/ Low, Middle, High	2412MHz, 2437MHz, 2462MHz
WiFi TX(802.11n HT40)	CH 3, CH 6, CH 9/ Low, Middle, High	2422MHz, 2437MHz, 2452MHz

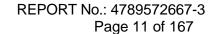
5.5. THE WORSE CASE POWER SETTING PARAMETER

The Worse Case Power Setting Parameter under 2400 ~ 2483.5MHz Band								
Test Software ESP_RF_te				ESP_RF_tes	st_tool_v1.1.0			
	Transmit		Test Software setting value					
Modulation Mode	Antenna	١	NCB: 20MHz			NCB: 40MHz		
Wiode	Number	CH 1	CH 6	CH 11	CH 3	CH 6	CH 9	
802.11b	1	Default	Default	Default				
802.11g	1	9 9 9 /						
802.11n HT20	1	16 16 16						
802.11n HT40	1		/		28	28	28	

5.6. THE WORSE CASE CONFIGURATIONS

Worst-case data rates as provided by the client were:

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

Antenna	Frequency (MHz)	Antenna Type	MAX Antenna Gain (dBi)
1	2412-2462	PCB antenna	-1.7

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

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

5.8. TEST ENVIRONMENT

Environment Parameter	Selected Values During Tests				
Relative Humidity	45 ~ 70%				
Atmospheric Pressure:	1025Pa				
Temperature	TN	22 ~ 28°C			
	VL	N/A			
Voltage :	VN	AC120V,60Hz			
	VH	N/A			

Note: VL= Lower Extreme Test Voltage

VN= Nominal Voltage

VH= Upper Extreme Test Voltage

TN= Normal Temperature

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5.9. DESCRIPTION OF TEST SETUP

SUPPORT EQUIPMENT

Item	Equipment	Brand Name	Model Name	Remarks
1	Laptop	ThinkPad	X230i	/
2	USB TO UART	/	/	/
3	LED Lamp	/	/	100W

I/O CABLES

Item	Port	Connector Type	Cable Type	Cable Length(m)	Remarks
1	USB	NA	NA	1	/

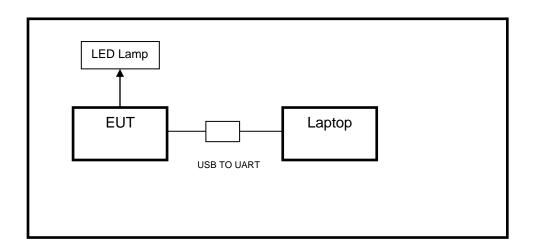
ACCESSORY

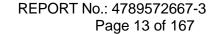
Item	Accessory	Brand Name	Model Name	Description
/	/	/	/	/

TEST SETUP

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

SETUP DIAGRAM FOR TEST

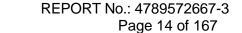






6. MEASURING INSTRUMENT AND SOFTWARE USED

<u> </u>	o. MEAGONING INGTROMENT AND GOT TWARE GOED									
Conducted Emissions										
				Insti	rument					
Used	Equipment	Manufacturer		Model No.			Seria	l No.	Last Cal.	Next Cal.
V	EMI Test Receiver	R&S		ES	R3		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
V	Artificial Mains Networks	Schwarzbeck		NSLK	8126		8126	3465	Dec.05,2019	Dec.05,2020
	Software									
Used		Description	ı				Manufa	acturer	Name	Version
V	Test Softwa	re for Conduct	ted dis	turba	nce		Far	ad	EZ-EMC	Ver. UL-3A1
			Rad	liated	Emiss	ions				
				Insti	rument					
Used	Equipment	Manufacturer		Mode	el No.		Seria	l No.	Last Cal.	Next Cal.
V	MXE EMI Receiver	KESIGHT		N90	38A		MY56400036		Dec.06,2019	Dec.05,2020
V	Hybrid Log Periodic Antenna	TDK	l	HLP-3003C			130960		Sep.17,2018	Sep.17,2021
V	Preamplifier	HP		844	47D		2944A09099		Dec.05,2019	Dec.05,2020
V	EMI Measurement Receiver	R&S		ES	R26		101	377	Dec.05,2019	Dec.05,2020
V	Horn Antenna	TDK		HRN	-0118		130	939	Sep.17,2018	Sep.17,2021
V	High Gain Horn Antenna	Schwarzbeck	I	BBHA	\-9170		69		Aug.11,2018	Aug.11,2021
V	Preamplifier	TDK	I	PA-02	2-0118		TRS-)67	Dec.05,2019	Dec.05,2020
V	Preamplifier	TDK		PA-	02-2		TRS- 000		Dec.05,2019	Dec.05,2020
V	Loop antenna	Schwarzbeck		15 ⁻	19B		000	800	Jan.07,2019	Jan.07,2022
V	Band Reject Filter	Wainwright			2350-24 33.5-40		4	1	Dec.05,2019	Dec.05,2020
V	High Pass Filter	Wi			2700-30)-40SS	00-	2	3	Dec.05,2019	Dec.05,2020
				Sof	tware					
Used	ed Description Manufact					turer		Name	Version	
V	✓ Test Software for Radiated disturbance Fara					arac	t	i	EZ-EMC	Ver. UL-3A1
			Oth	ner in	strume	nts				
Used	Equipment	Manufac	cturer Mod		lel No.	S	erial No).	Last Cal.	Next Cal.
V	Spectrum Analyz	zer Keysiç	ght	N9	030A	MY	554105	12 D	ec.06,2019	Dec.05,2020
V	Power sensor, Power Meter	wer R&S	}	os	P120		100921	С	Dec.06,2019	Dec.06,2020





7. ANTENNA PORT TEST RESULTS

7.1. ON TIME AND DUTY CYCLE

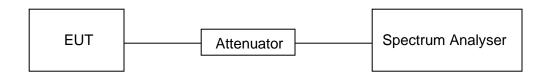
LIMITS

None; for reporting purposes only

PROCEDURE

KDB 558074 Zero-Span Spectrum Analyzer Method

TEST SETUP



TEST ENVIRONMENT

Temperature	24.9 °C	Relative Humidity	61.4 %
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 Bandwid		≥ 500KHz	2400-2483.5			
ISED RSS-Gen Clause 6.7	99% Occupied Bandwidth	For reporting purposes only.	2400-2483.5			

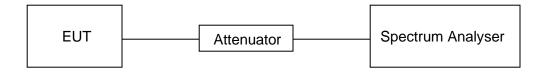
TEST PROCEDURE

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

Center Frequency	The centre frequency of the channel under test
Detector	Peak
IRRW	For 6dB Bandwidth :100kHz For 99% Occupied Bandwidth :1% to 5% of the occupied bandwidth
IV/BW/	For 6dB Bandwidth : ≥3 × RBW For 99% Occupied Bandwidth : ≥3×RBW
Trace	Max hold
Sweep	Auto couple

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 and 99% relative to the maximum level measured in the fundamental emission.

TEST SETUP





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TEST ENVIRONMENT

Temperature	24.9 °C	Relative Humidity	61.4 %
Atmosphere Pressure	101 kPa	Test Voltage	AC 120 V, 60 Hz

RESULTS

Please refer to appendix B and C.



7.3. CONDUCTED OUTPUT POWER

LIMITS

CFR 47 FCC Part15 (15.247) Subpart C					
Section Test Item Limit Frequency Range (MHz)					
CFR 47 FCC 15.247(b)(3)	Output Power	1 watt or 30dBm	2400-2483.5		

TEST PROCEDURE

Place the EUT on the table and set it in the transmitting mode.

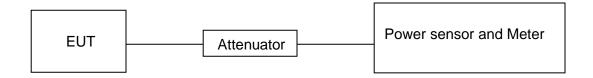
Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the Power sensor.

Measure peak power each channel.

Peak Detector use for Peak result.

AVG Detector use for AVG result.

TEST SETUP



TEST ENVIRONMENT

Temperature	24.9 °C	Relative Humidity	61.4 %
Atmosphere Pressure	101 kPa	Test Voltage	AC 120 V, 60 Hz



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RESULTS

Please refer to appendix D.



7.4. POWER SPECTRAL DENSITY

LIMITS

CFR 47 FCC Part15 (15.247) Subpart C				
Section Test Item Limit Frequency Rar (MHz)				
CFR 47 FCC §15.247 (e)	Power Spectral Density	8 dBm/3 kHz	2400-2483.5	

TEST PROCEDURE

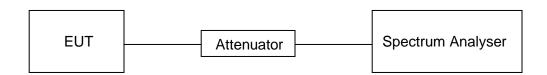
Connect the UUT to the spectrum analyser and use the following settings:

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

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

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

TEST SETUP



TEST ENVIRONMENT

Temperature	24.9 °C	Relative Humidity	61.4 %
Atmosphere Pressure	101 kPa	Test Voltage	AC 120 V, 60 Hz

RESULTS

Please refer to appendix E.



7.5. CONDUCTED BANDEDGE AND SPURIOUS EMISSIONS

LIMITS

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

TEST PROCEDURE

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

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

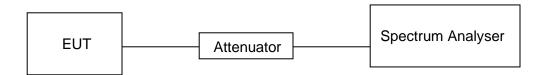
Use the peak marker function to determine the maximum PSD level.

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

Use the peak marker function to determine the maximum amplitude level.



TEST SETUP



TEST ENVIRONMENT

Temperature	24.9 °C	Relative Humidity	61.4 %
Atmosphere Pressure	101 kPa	Test Voltage	AC 120 V, 60 Hz

RESULTS

Please refer to appendix F and G.



8. RADIATED TEST RESULTS

LIMITS

Please refer to CFR 47 FCC §15.205 and §15.209

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

Emissions radiated outside of the specified frequency bands above 30MHz				
Frequency Range	Frequency Range Field Strength Limit		gth Limit	
(MHz)	(uV/m) at 3 m	(dBuV/m) at 3 m		
		Quasi-Peak		
30 - 88	100	40		
88 - 216	150	43.5		
216 - 960	200	46		
Above 960	500	54		
Above 1000	500	Peak	Average	
Above 1000	500	74	54	

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



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

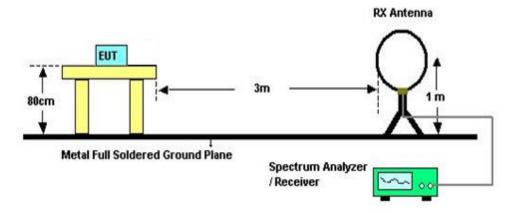
MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
¹ 0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	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 30MHz



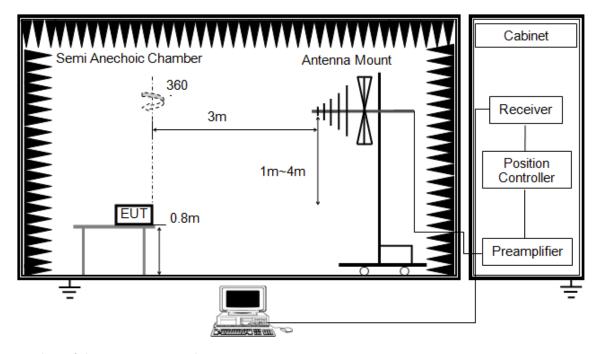
The setting of the spectrum analyser

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

- 1. The testing follows the guidelines in ANSI C63.10-2013
- 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 0.8 meter above ground.
- 4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of 1 meter height antenna tower.
- 5. For measurement below 1GHz, 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.
- 6. For the actual test configuration, please refer to the related item in this test report (Photographs of the Test Configuration)
- 7. Although these tests were performed other than open field site, adequate comparison measurements were confirmed against 30m open field site. Therefore sufficient tests were made to demonstrate that the alternative site produces results that correlate with the ones of tests made in an open field site based on KDB 414788.



Below 1G



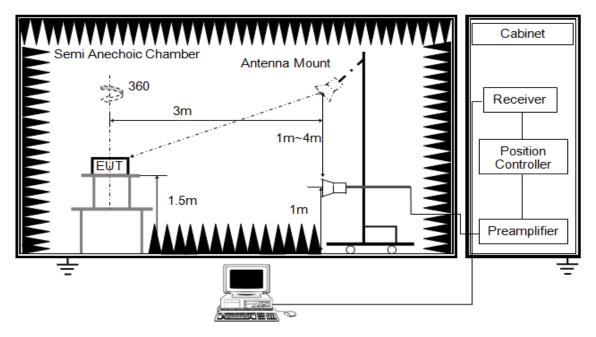
The setting of the spectrum analyser

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.
- 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 0.8 meter 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 1GHz, 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 1G



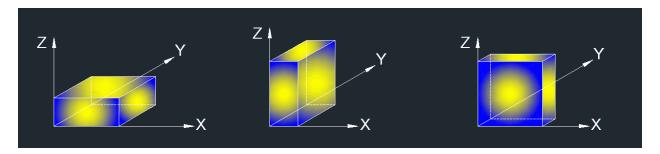
The setting of the spectrum analyser

RBW	1 MHz
IVEW	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.
- 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 1.5m 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 1GHz, 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.

TEST ENVIRONMENT

Temperature	24.9 °C	Relative Humidity	61.4 %
Atmosphere Pressure	101 kPa	Test Voltage	AC 120 V, 60 Hz

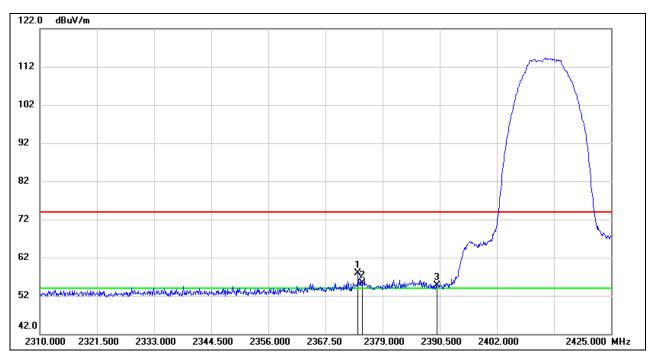


8.1. RESTRICTED BANDEDGE

8.1.1. 802.11b MODE

RESTRICTED BANDEDGE (LOW CHANNEL, HORIZONTAL)

PEAK

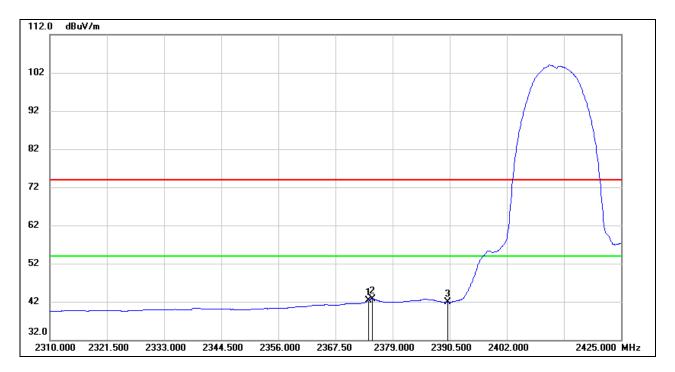


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2374.055	25.04	32.89	57.93	74.00	-16.07	peak
2	2374.860	22.44	32.89	55.33	74.00	-18.67	peak
3	2390.000	21.76	32.94	54.70	74.00	-19.30	peak

- 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 case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.



<u>AVG</u>



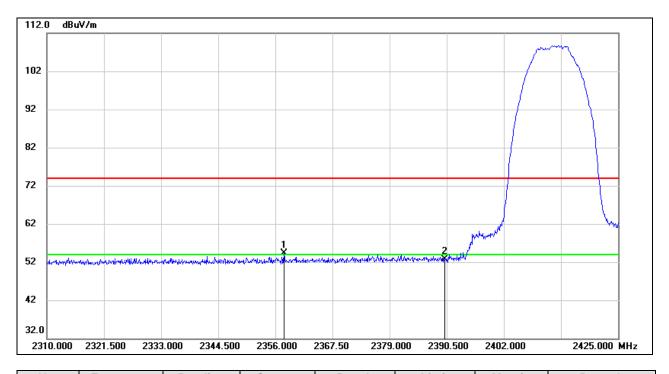
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2374.055	9.51	32.89	42.40	54.00	-11.60	AVG
2	2374.860	9.83	32.89	42.72	54.00	-11.28	AVG
3	2390.000	8.90	32.94	41.84	54.00	-12.16	AVG

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



RESTRICTED BANDEDGE (LOW CHANNEL, VERTICAL)

PEAK

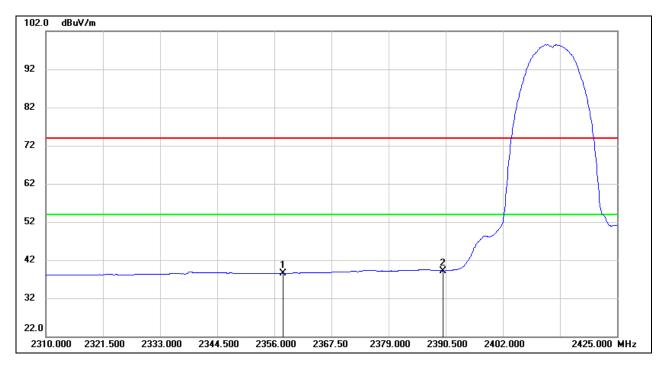


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2357.725	21.39	32.83	54.22	74.00	-19.78	peak
2	2390.000	19.74	32.94	52.68	74.00	-21.32	peak

- 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 case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.





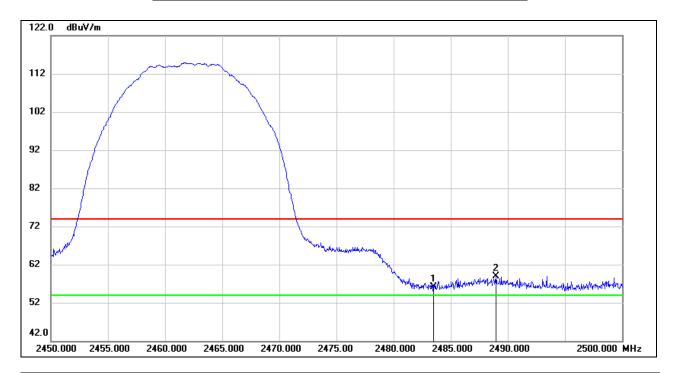


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2357.725	5.72	32.83	38.55	54.00	-15.45	AVG
2	2390.000	6.25	32.94	39.19	54.00	-14.81	AVG

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



RESTRICTED BANDEDGE (HIGH CHANNEL, HORIZONTAL)

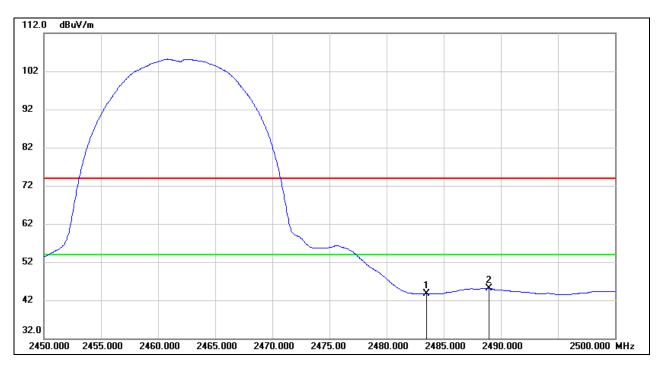


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2483.500	22.50	33.58	56.08	74.00	-17.92	peak
2	2488.950	25.34	33.62	58.96	74.00	-15.04	peak

- 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 case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.



AVG



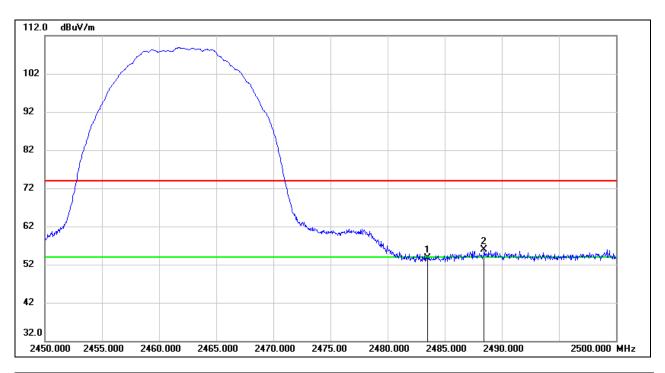
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2483.500	10.13	33.58	43.71	54.00	-10.29	AVG
2	2488.950	11.41	33.62	45.03	54.00	-8.97	AVG

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



RESTRICTED BANDEDGE (HIGH CHANNEL, VERTICAL)

PEAK

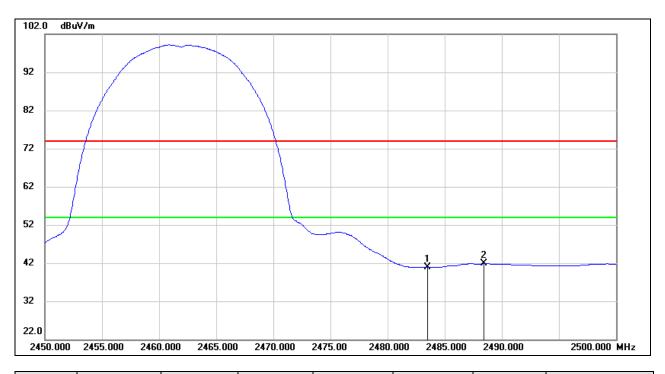


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2483.500	20.11	33.58	53.69	74.00	-20.31	peak
2	2488.450	22.26	33.62	55.88	74.00	-18.12	peak

- 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 case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.



<u>AVG</u>



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2483.500	7.36	33.58	40.94	54.00	-13.06	AVG
2	2488.450	8.22	33.62	41.84	54.00	-12.16	AVG

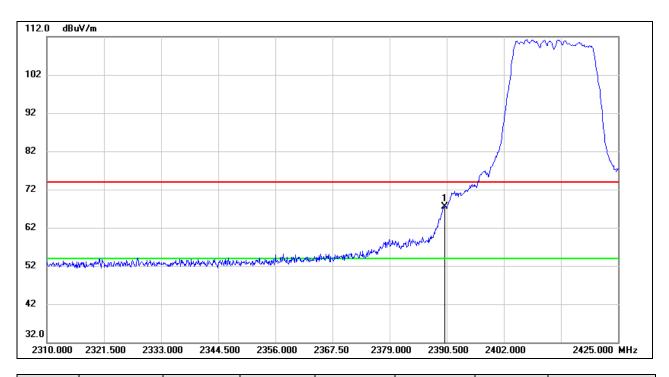
- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
- 5. For the transmitting duration, please refer to clause 7.1.
- 6. Only the worst case emission was recorded, if it complies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



8.1.2. 802.11g MODE

RESTRICTED BANDEDGE (LOW CHANNEL, HORIZONTAL)

PEAK

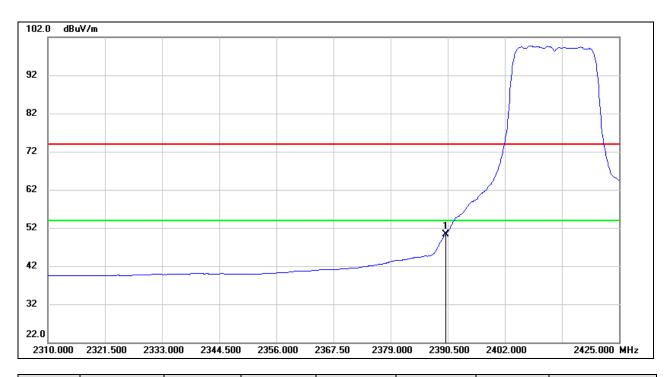


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2390.000	34.61	32.94	67.55	74.00	-6.45	peak

- 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 case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.



AVG



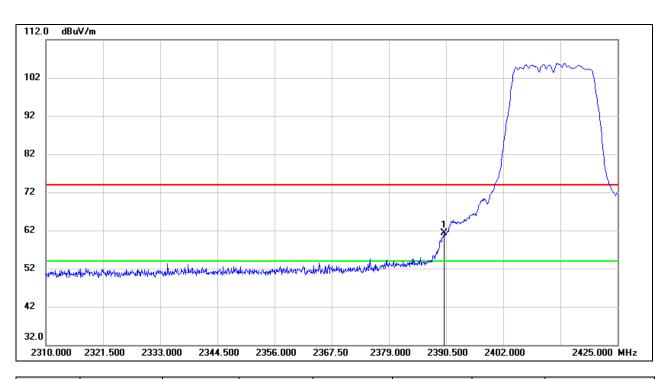
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2390.000	17.38	32.94	50.32	54.00	-3.68	AVG

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



RESTRICTED BANDEDGE (LOW CHANNEL, VERTICAL)

PEAK

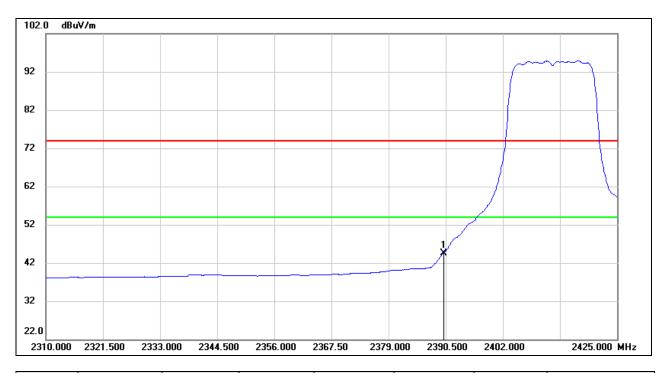


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2390.000	28.28	32.94	61.22	74.00	-12.78	peak

- 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 case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.



AVG



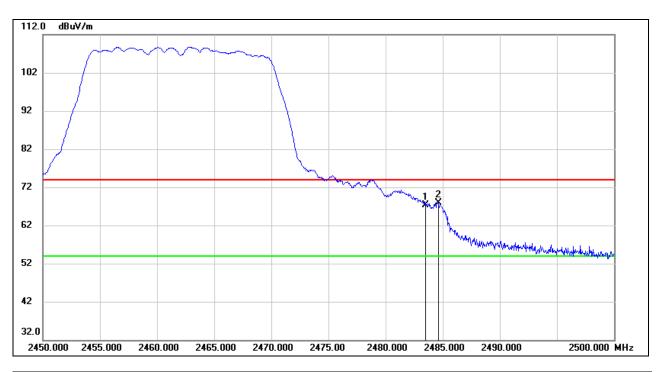
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2390.000	11.62	32.94	44.56	54.00	-9.44	AVG

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



RESTRICTED BANDEDGE (HIGH CHANNEL, HORIZONTAL)

PEAK

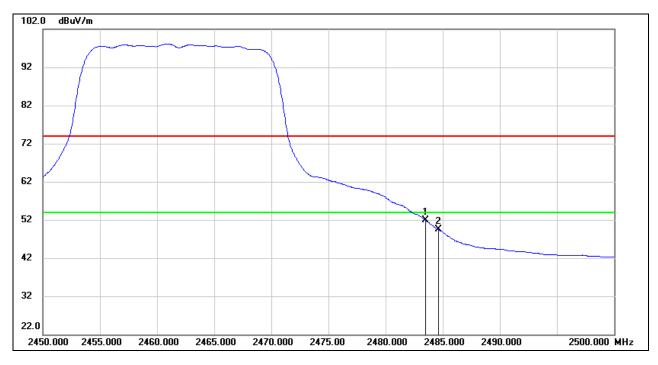


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2483.500	33.73	33.58	67.31	74.00	-6.69	peak
2	2484.600	34.36	33.59	67.95	74.00	-6.05	peak

- 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 case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.



AVG



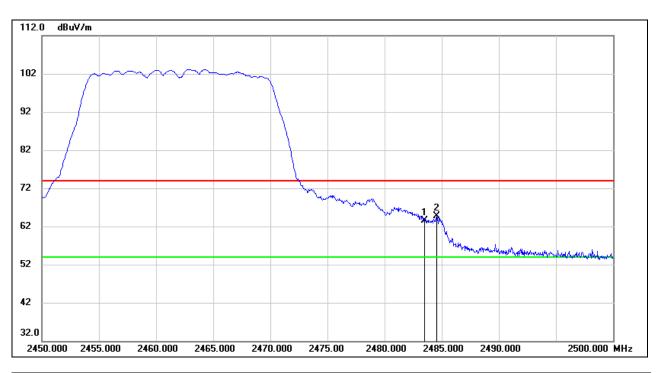
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2483.500	18.24	33.58	51.82	54.00	-2.18	AVG
2	2484.600	15.99	33.59	49.58	54.00	-4.42	AVG

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



RESTRICTED BANDEDGE (HIGH CHANNEL, VERTICAL)

PEAK

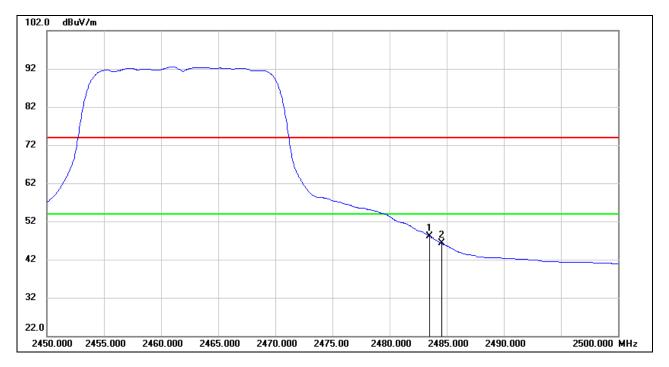


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2483.500	29.99	33.58	63.57	74.00	-10.43	peak
2	2484.550	31.07	33.59	64.66	74.00	-9.34	peak

- 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 case emission 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	14.58	33.58	48.16	54.00	-5.84	AVG
2	2484.550	12.67	33.59	46.26	54.00	-7.74	AVG

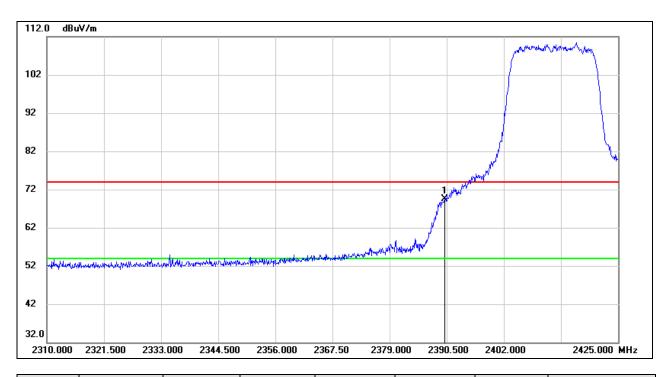
- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
- 5. For the transmitting duration, please refer to clause 7.1.
- 6. Only the worst case emission was recorded, if it complies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

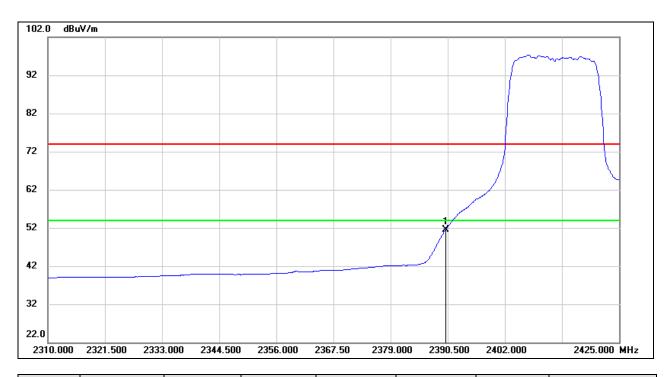


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2390.000	36.52	32.94	69.46	74.00	-4.54	peak

- 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 case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.



AVG



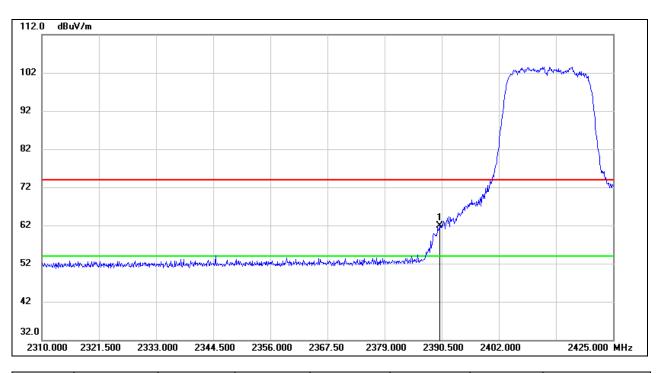
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2390.000	18.58	32.94	51.52	54.00	-2.48	AVG

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



RESTRICTED BANDEDGE (LOW CHANNEL, VERTICAL)

PEAK

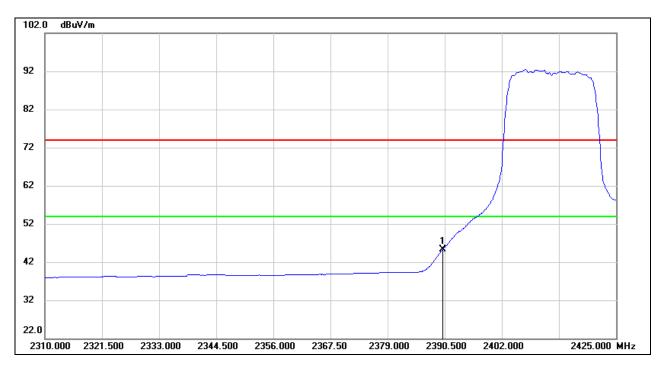


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2390.000	28.88	32.94	61.82	74.00	-12.18	peak

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



<u>AVG</u>



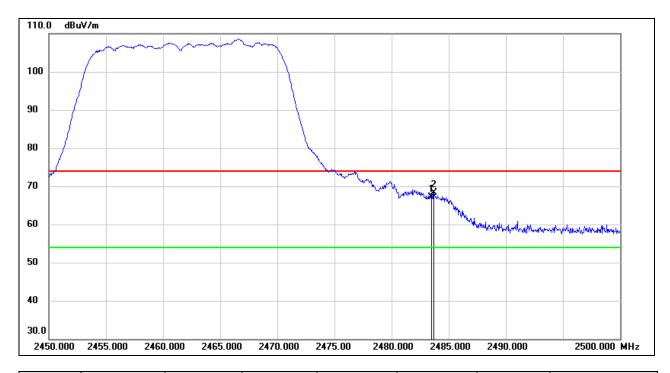
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2390.000	12.33	32.94	45.27	54.00	-8.73	AVG

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



RESTRICTED BANDEDGE (HIGH CHANNEL, HORIZONTAL)

PEAK

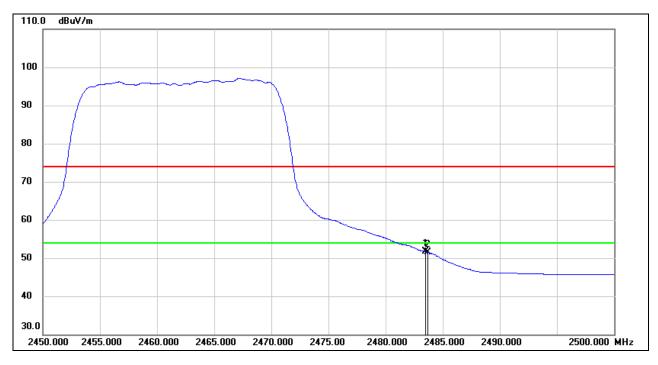


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2483.500	54.76	12.38	67.14	74.00	-6.86	peak
2	2483.700	55.98	12.38	68.36	74.00	-5.64	peak

- 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 case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.



AVG



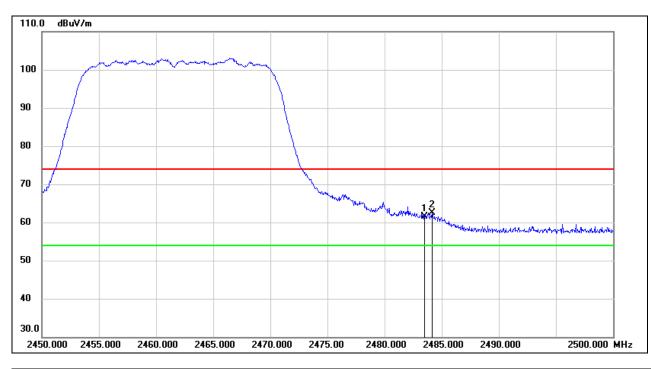
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2483.500	39.26	12.38	51.64	54.00	-2.36	AVG
2	2483.700	39.17	12.38	51.55	54.00	-2.45	AVG

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



RESTRICTED BANDEDGE (HIGH CHANNEL, VERTICAL)

PEAK

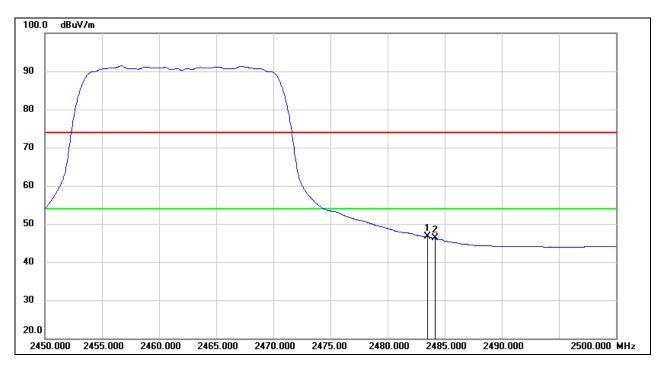


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2483.500	49.08	12.38	61.46	74.00	-12.54	peak
2	2484.150	50.11	12.38	62.49	74.00	-11.51	peak

- 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 case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.



<u>AVG</u>



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2483.500	34.24	12.38	46.62	54.00	-7.38	AVG
2	2484.150	33.85	12.38	46.23	54.00	-7.77	AVG

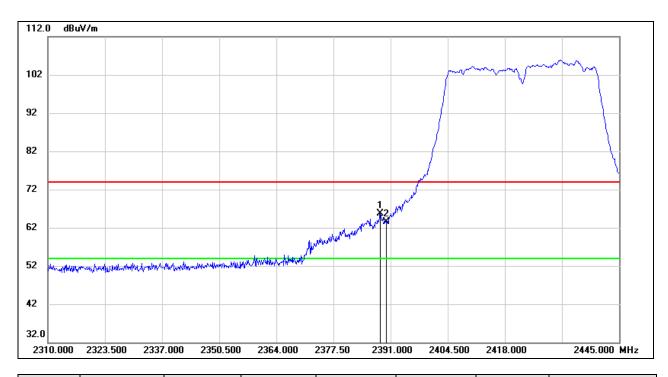
- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
- 5. For the transmitting duration, please refer to clause 7.1.
- 6. Only the worst case emission was recorded, if it complies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



8.1.4. 802.11n HT40 MODE

RESTRICTED BANDEDGE (LOW CHANNEL, HORIZONTAL)

PEAK

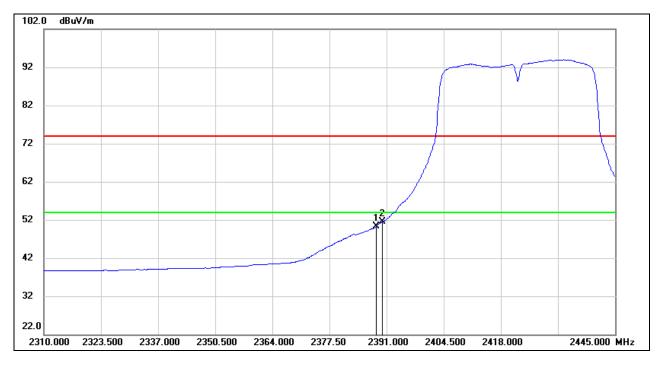


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2388.570	32.79	32.94	65.73	74.00	-8.27	peak
2	2390.000	30.54	32.94	63.48	74.00	-10.52	peak

- 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 case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.



AVG



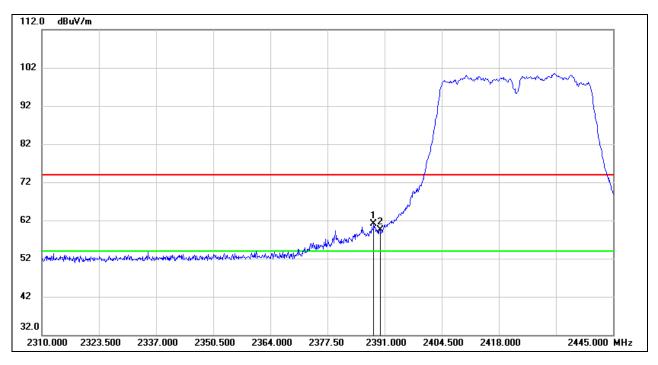
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2388.570	17.36	32.94	50.30	54.00	-3.70	AVG
2	2390.000	18.61	32.94	51.55	54.00	-2.45	AVG

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



RESTRICTED BANDEDGE (LOW CHANNEL, VERTICAL)

PEAK

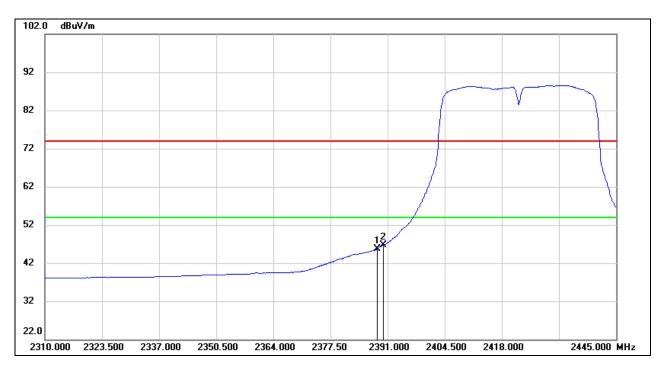


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2388.435	28.10	32.94	61.04	74.00	-12.96	peak
2	2390,000	26.49	32.94	59.43	74.00	-14.57	peak

- 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 case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.



<u>AVG</u>



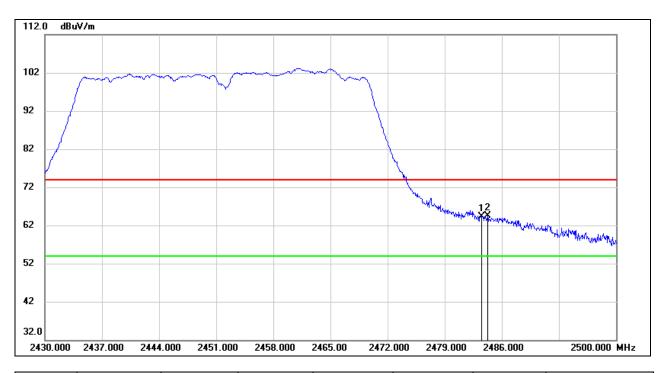
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2388.435	12.86	32.94	45.80	54.00	-8.20	AVG
2	2390.000	13.83	32.94	46.77	54.00	-7.23	AVG

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



RESTRICTED BANDEDGE (HIGH CHANNEL, HORIZONTAL)

PEAK

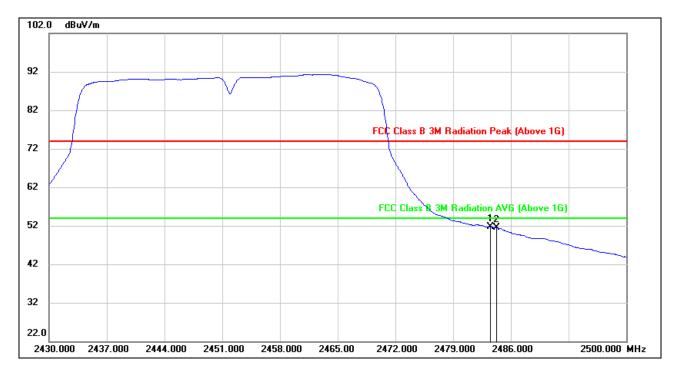


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2483.500	30.74	33.58	64.32	74.00	-9.68	peak
2	2484.250	30.94	33.58	64.52	74.00	-9.48	peak

- 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 case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.



AVG



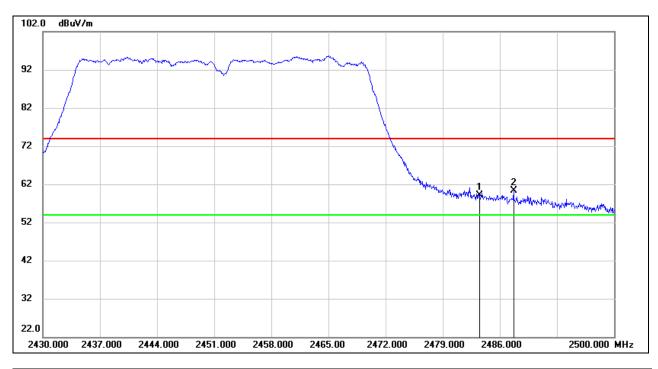
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2483.500	18.13	33.58	51.71	54.00	-2.29	AVG
2	2484.250	17.93	33.58	51.51	54.00	-2.49	AVG

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



RESTRICTED BANDEDGE (HIGH CHANNEL, VERTICAL)

PEAK

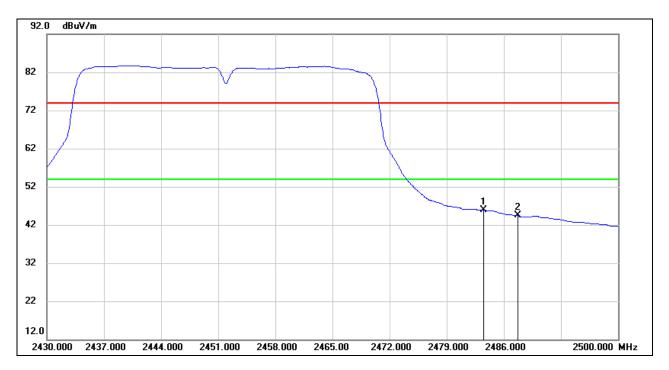


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2483.500	25.44	33.58	59.02	74.00	-14.98	peak
2	2487.680	26.61	33.61	60.22	74.00	-13.78	peak

- 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 case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.



<u>AVG</u>



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2483.500	12.26	33.58	45.84	54.00	-8.16	AVG
2	2487.680	10.80	33.61	44.41	54.00	-9.59	AVG

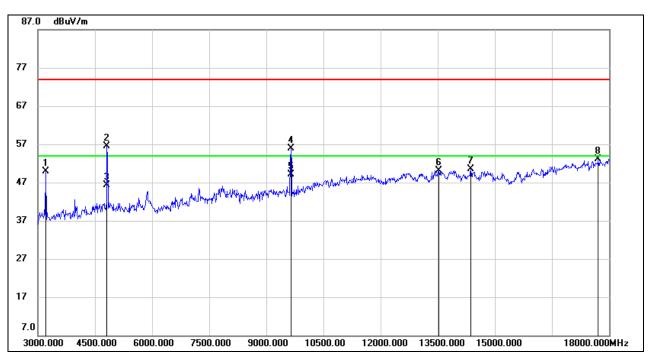
- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
- 5. For the transmitting duration, please refer to clause 7.1.
- 6. Only the worst case emission was recorded, if it complies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



8.2. SPURIOUS EMISSIONS (3~18GHz)

8.2.1. 802.11b MODE

HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, HORIZONTAL)

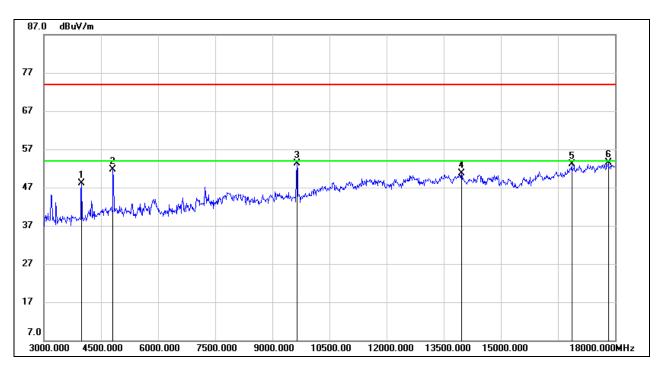


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	3210.000	54.38	-4.43	49.95	74.00	-24.05	peak
2	4815.000	56.02	0.51	56.53	74.00	-17.47	peak
3	4815.000	45.71	0.51	46.22	54.00	-7.78	AVG
4	9645.000	46.15	9.66	55.81	74.00	-18.19	peak
5	9645.000	39.54	9.66	49.20	54.00	-4.80	AVG
6	13530.000	34.34	15.86	50.20	74.00	-23.80	peak
7	14370.000	34.10	16.31	50.41	74.00	-23.59	peak
8	17715.000	30.50	22.56	53.06	74.00	-20.94	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
- 5. For the transmitting duration, please refer to clause 7.1.
- 6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
 - 7. Proper operation of the transmitter prior to adding the filter to the measurement chain.



HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, VERTICAL)

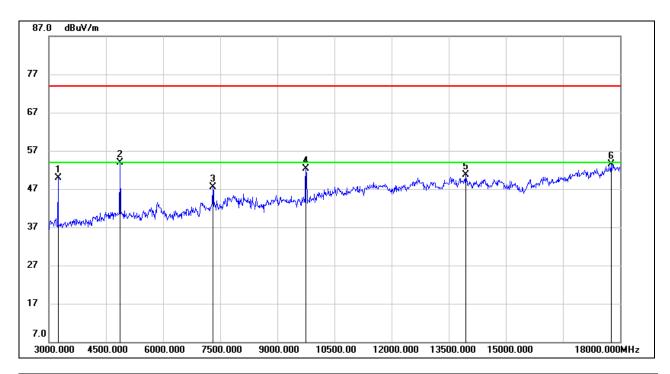


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	3990.000	50.90	-2.89	48.01	74.00	-25.99	peak
2	4815.000	51.29	0.51	51.80	74.00	-22.20	peak
3	9645.000	43.63	9.66	53.29	74.00	-20.71	peak
4	13965.000	34.70	16.09	50.79	74.00	-23.21	peak
5	16860.000	33.12	19.95	53.07	74.00	-20.93	peak
6	17820.000	30.15	23.30	53.45	74.00	-20.55	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)

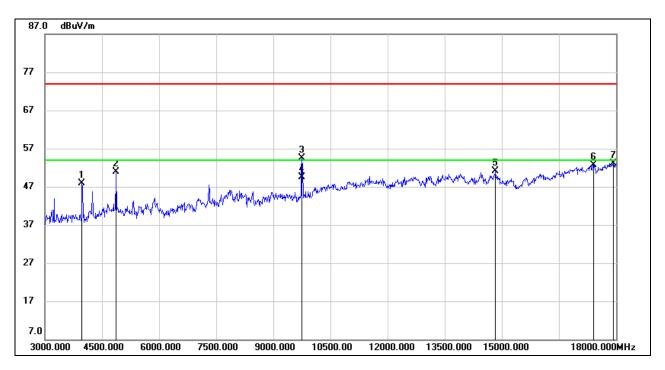


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	3240.000	54.31	-4.37	49.94	74.00	-24.06	peak
2	4875.000	53.20	0.76	53.96	74.00	-20.04	peak
3	7305.000	41.46	6.08	47.54	74.00	-26.46	peak
4	9750.000	42.70	9.68	52.38	74.00	-21.62	peak
5	13950.000	34.63	16.11	50.74	74.00	-23.26	peak
6	17760.000	30.62	22.95	53.57	74.00	-20.43	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)

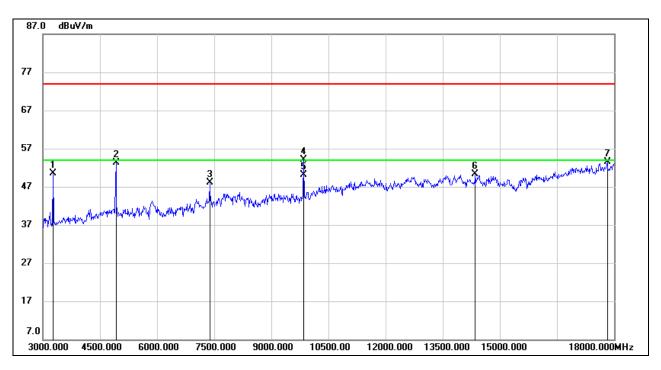


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	3975.000	50.87	-2.90	47.97	74.00	-26.03	peak
2	4875.000	50.24	0.76	51.00	74.00	-23.00	peak
3	9750.000	44.80	9.68	54.48	74.00	-19.52	peak
4	9750.000	39.92	9.68	49.60	54.00	-4.40	AVG
5	14835.000	35.22	15.95	51.17	74.00	-22.83	peak
6	17415.000	31.33	21.39	52.72	74.00	-21.28	peak
7	17925.000	29.77	23.37	53.14	74.00	-20.86	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
- 5. For the transmitting duration, please refer to clause 7.1.
- 6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
 - 7. Proper operation of the transmitter prior to adding the filter to the measurement chain.



HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, HORIZONTAL)

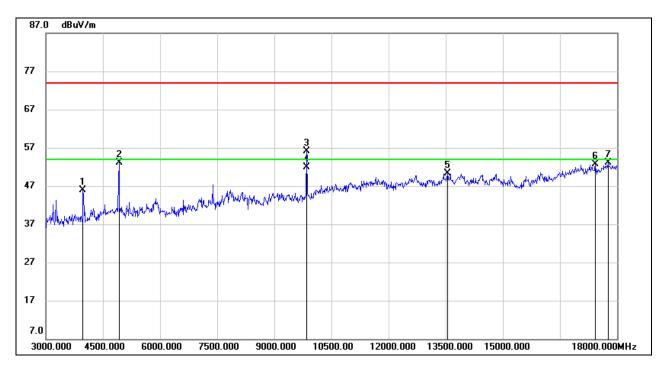


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	3270.000	54.74	-4.29	50.45	74.00	-23.55	peak
2	4920.000	52.29	0.96	53.25	74.00	-20.75	peak
3	7380.000	41.62	6.41	48.03	74.00	-25.97	peak
4	9840.000	44.22	9.86	54.08	74.00	-19.92	peak
5	9840.000	40.16	9.86	50.02	54.00	-3.98	AVG
6	14355.000	34.05	16.29	50.34	74.00	-23.66	peak
7	17820.000	30.15	23.30	53.45	74.00	-20.55	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
- 5. For the transmitting duration, please refer to clause 7.1.
- 6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
 - 7. Proper operation of the transmitter prior to adding the filter to the measurement chain.



HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, VERTICAL)



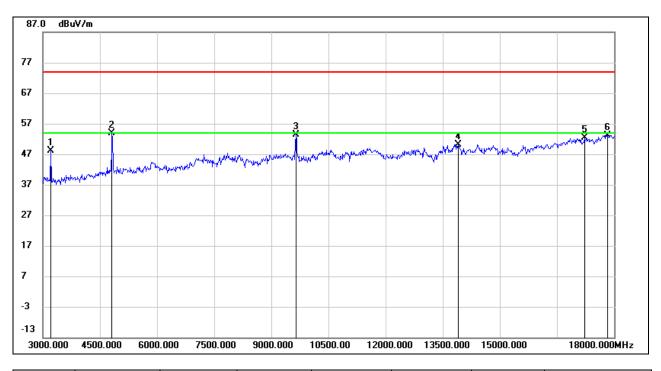
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	3975.000	48.78	-2.90	45.88	74.00	-28.12	peak
2	4920.000	52.21	0.96	53.17	74.00	-20.83	peak
3	9840.000	46.23	9.86	56.09	74.00	-17.91	peak
4	9840.000	42.09	9.86	51.95	54.00	-2.05	AVG
5	13545.000	34.41	15.89	50.30	74.00	-23.70	peak
6	17430.000	31.25	21.38	52.63	74.00	-21.37	peak
7	17760.000	30.09	22.95	53.04	74.00	-20.96	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
- 5. For the transmitting duration, please refer to clause 7.1.
- 6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
 - 7. Proper operation of the transmitter prior to adding the filter to the measurement chain.



8.2.2. 802.11g MODE

HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, HORIZONTAL)

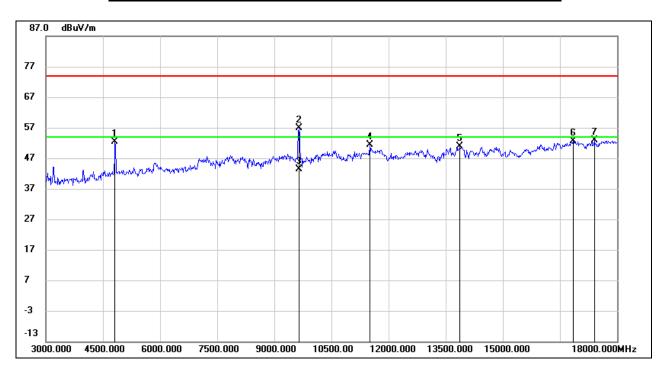


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	3210.000	52.62	-4.43	48.19	74.00	-25.81	peak
2	4815.000	53.27	0.51	53.78	74.00	-20.22	peak
3	9645.000	43.78	9.66	53.44	74.00	-20.56	peak
4	13905.000	34.00	16.20	50.20	74.00	-23.80	peak
5	17220.000	31.37	21.08	52.45	74.00	-21.55	peak
6	17835.000	29.93	23.31	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. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
- 5. For the transmitting duration, please refer to clause 7.1.
- 6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
 - 7. Proper operation of the transmitter prior to adding the filter to the measurement chain.



HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, VERTICAL)

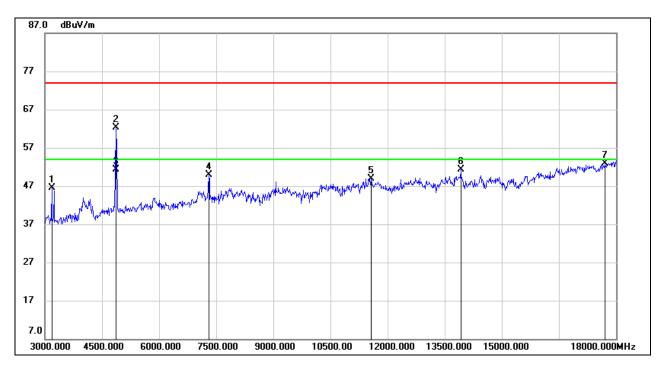


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4815.000	51.99	0.51	52.50	74.00	-21.50	peak
2	9645.000	47.26	9.66	56.92	74.00	-17.08	peak
3	9645.000	33.82	9.66	43.48	54.00	-10.52	AVG
4	11505.000	37.99	13.42	51.41	74.00	-22.59	peak
5	13875.000	34.36	16.44	50.80	74.00	-23.20	peak
6	16845.000	32.61	19.96	52.57	74.00	-21.43	peak
7	17400.000	31.53	21.41	52.94	74.00	-21.06	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
- 5. For the transmitting duration, please refer to clause 7.1.
- 6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
 - 7. Proper operation of the transmitter prior to adding the filter to the measurement chain.



HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, HORIZONTAL)

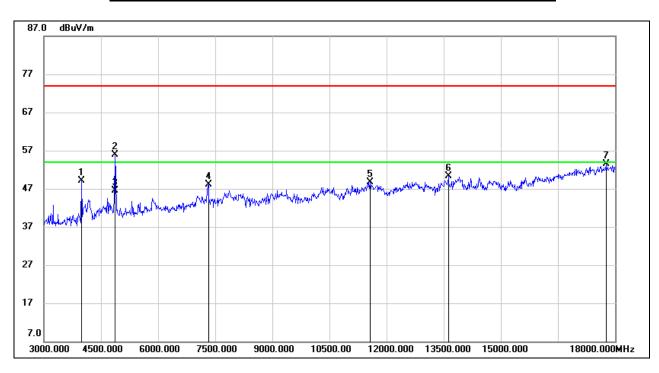


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	3180.000	50.91	-4.33	46.58	74.00	-27.42	peak
2	4860.000	61.68	0.70	62.38	74.00	-11.62	peak
3	4860.000	50.52	0.70	51.22	54.00	-2.78	AVG
4	7305.000	43.81	6.08	49.89	74.00	-24.11	peak
5	11565.000	35.64	13.26	48.90	74.00	-25.10	peak
6	13920.000	35.18	16.17	51.35	74.00	-22.65	peak
7	17715.000	30.38	22.56	52.94	74.00	-21.06	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
- 5. For the transmitting duration, please refer to clause 7.1.
- 6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
 - 7. Proper operation of the transmitter prior to adding the filter to the measurement chain.



HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, VERTICAL)

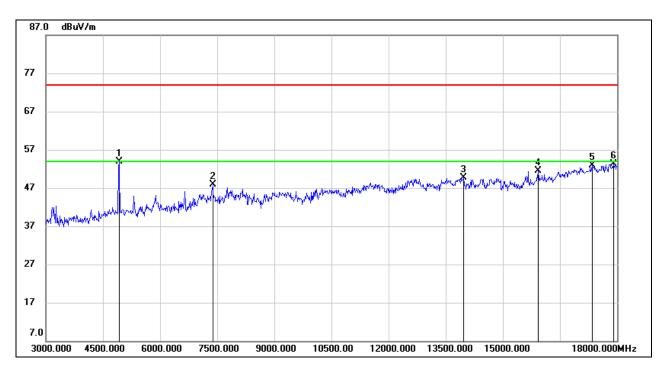


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	3990.000	52.09	-2.89	49.20	74.00	-24.80	peak
2	4875.000	55.24	0.76	56.00	74.00	-18.00	peak
3	4875.000	45.79	0.76	46.55	54.00	-7.45	AVG
4	7320.000	42.01	6.14	48.15	74.00	-25.85	peak
5	11565.000	35.37	13.26	48.63	74.00	-25.37	peak
6	13620.000	34.28	15.99	50.27	74.00	-23.73	peak
7	17760.000	30.64	22.95	53.59	74.00	-20.41	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
- 5. For the transmitting duration, please refer to clause 7.1.
- 6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
 - 7. Proper operation of the transmitter prior to adding the filter to the measurement chain.



HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, HORIZONTAL)

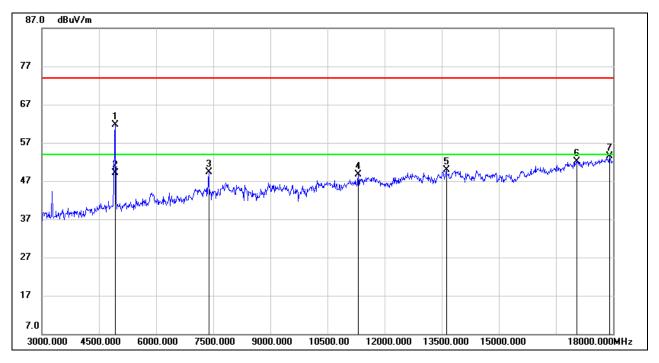


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4920.000	52.89	0.96	53.85	74.00	-20.15	peak
2	7380.000	41.52	6.41	47.93	74.00	-26.07	peak
3	13965.000	33.52	16.09	49.61	74.00	-24.39	peak
4	15930.000	33.81	17.60	51.41	74.00	-22.59	peak
5	17340.000	31.29	21.61	52.90	74.00	-21.10	peak
6	17910.000	29.86	23.35	53.21	74.00	-20.79	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
- 5. For the transmitting duration, please refer to clause 7.1.
- 6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
 - 7. Proper operation of the transmitter prior to adding the filter to the measurement chain.



HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, VERTICAL)



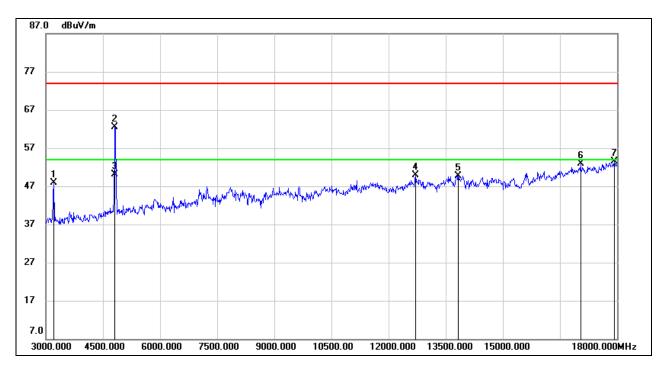
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4920.000	60.76	0.96	61.72	74.00	-12.28	peak
2	4920.000	48.15	0.96	49.11	54.00	-4.89	AVG
3	7380.000	42.93	6.41	49.34	74.00	-24.66	peak
4	11310.000	36.40	12.37	48.77	74.00	-25.23	peak
5	13620.000	33.87	15.99	49.86	74.00	-24.14	peak
6	17055.000	31.67	20.53	52.20	74.00	-21.80	peak
7	17910.000	30.17	23.35	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. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
- 5. For the transmitting duration, please refer to clause 7.1.
- 6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
 - 7. 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)

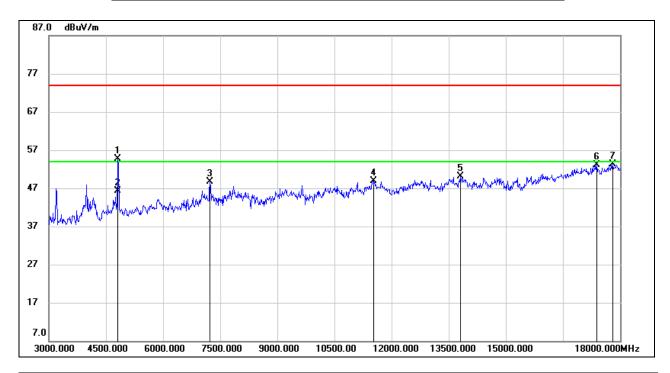


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	3210.000	52.42	-4.43	47.99	74.00	-26.01	peak
2	4815.000	61.92	0.51	62.43	74.00	-11.57	peak
3	4815.000	49.51	0.51	50.02	54.00	-3.98	AVG
4	12705.000	35.56	14.35	49.91	74.00	-24.09	peak
5	13830.000	32.90	16.84	49.74	74.00	-24.26	peak
6	17040.000	32.38	20.49	52.87	74.00	-21.13	peak
7	17925.000	30.20	23.37	53.57	74.00	-20.43	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
- 5. For the transmitting duration, please refer to clause 7.1.
- 6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
 - 7. Proper operation of the transmitter prior to adding the filter to the measurement chain.



HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, VERTICAL)

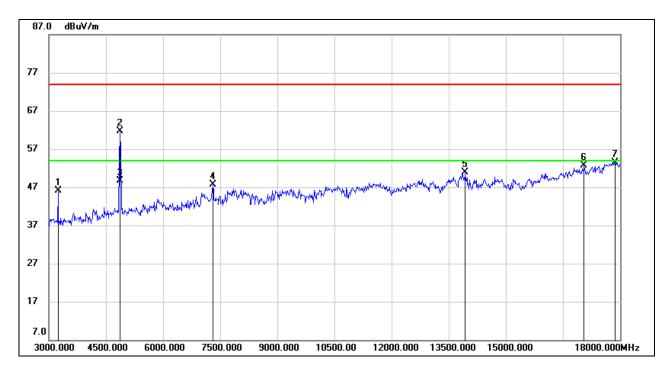


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4815.000	54.27	0.51	54.78	74.00	-19.22	peak
2	4815.000	45.70	0.51	46.21	54.00	-7.79	AVG
3	7230.000	42.83	5.89	48.72	74.00	-25.28	peak
4	11520.000	35.57	13.38	48.95	74.00	-25.05	peak
5	13800.000	33.01	17.10	50.11	74.00	-23.89	peak
6	17385.000	31.74	21.46	53.20	74.00	-20.80	peak
7	17805.000	29.92	23.31	53.23	74.00	-20.77	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
- 5. For the transmitting duration, please refer to clause 7.1.
- 6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
 - 7. Proper operation of the transmitter prior to adding the filter to the measurement chain.



HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, HORIZONTAL)

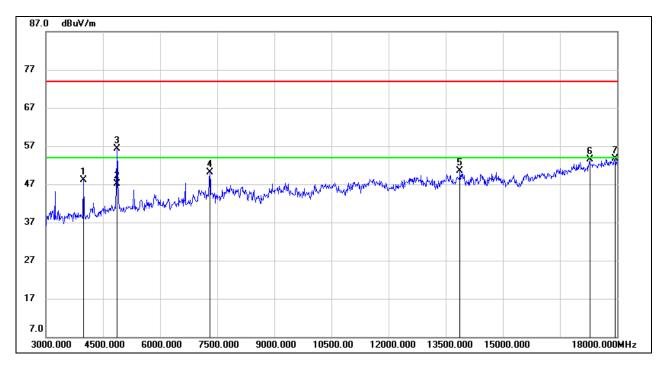


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	3240.000	50.57	-4.37	46.20	74.00	-27.80	peak
2	4875.000	61.00	0.76	61.76	74.00	-12.24	peak
3	4875.000	48.01	0.76	48.77	54.00	-5.23	AVG
4	7305.000	41.68	6.08	47.76	74.00	-26.24	peak
5	13935.000	34.69	16.15	50.84	74.00	-23.16	peak
6	17055.000	32.13	20.53	52.66	74.00	-21.34	peak
7	17865.000	30.12	23.33	53.45	74.00	-20.55	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
- 5. For the transmitting duration, please refer to clause 7.1.
- 6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
 - 7. Proper operation of the transmitter prior to adding the filter to the measurement chain.



HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, VERTICAL)

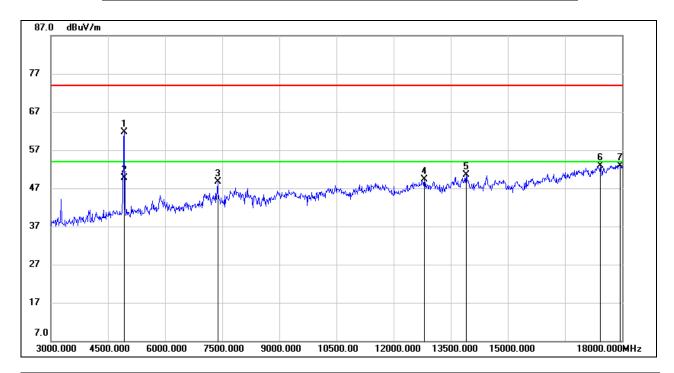


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	3990.000	50.95	-2.89	48.06	74.00	-25.94	peak
2	4875.000	46.34	0.76	47.10	54.00	-6.90	AVG
3	4875.000	55.60	0.76	56.36	74.00	-17.64	peak
4	7305.000	44.05	6.08	50.13	74.00	-23.87	peak
5	13875.000	34.02	16.44	50.46	74.00	-23.54	peak
6	17280.000	31.89	21.59	53.48	74.00	-20.52	peak
7	17955.000	30.34	23.41	53.75	74.00	-20.25	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)

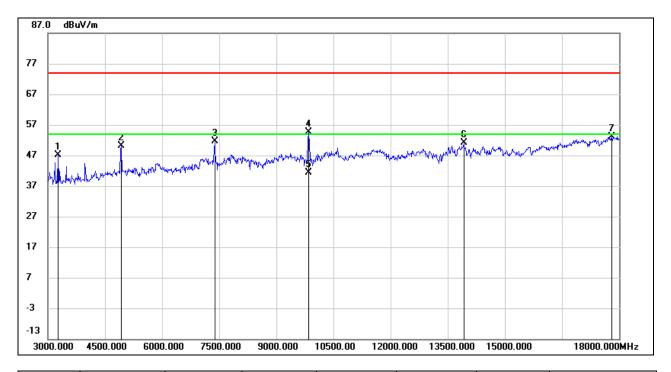


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4920.000	60.80	0.96	61.76	74.00	-12.24	peak
2	4920.000	48.70	0.96	49.66	54.00	-4.34	AVG
3	7380.000	42.25	6.41	48.66	74.00	-25.34	peak
4	12810.000	33.73	15.59	49.32	74.00	-24.68	peak
5	13905.000	34.23	16.20	50.43	74.00	-23.57	peak
6	17430.000	31.49	21.38	52.87	74.00	-21.13	peak
7	17940.000	29.54	23.39	52.93	74.00	-21.07	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
- 5. For the transmitting duration, please refer to clause 7.1.
- 6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
 - 7. Proper operation of the transmitter prior to adding the filter to the measurement chain.



HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, VERTICAL)



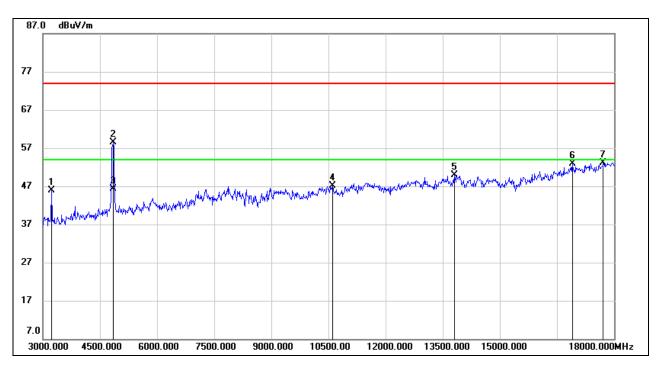
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	3270.000	51.46	-4.29	47.17	74.00	-26.83	peak
2	4920.000	49.28	0.96	50.24	74.00	-23.76	peak
3	7380.000	45.12	6.41	51.53	74.00	-22.47	peak
4	9840.000	44.68	9.86	54.54	74.00	-19.46	peak
5	9840.000	31.61	9.86	41.47	54.00	-12.53	AVG
6	13920.000	34.85	16.17	51.02	74.00	-22.98	peak
7	17805.000	29.70	23.31	53.01	74.00	-20.99	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
- 5. For the transmitting duration, please refer to clause 7.1.
- 6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
 - 7. 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)

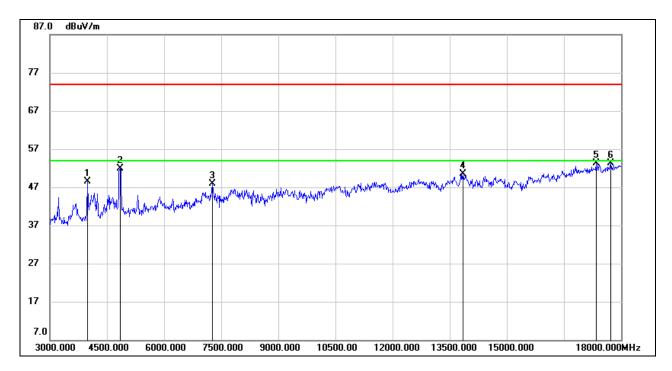


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	3225.000	50.40	-4.40	46.00	74.00	-28.00	peak
2	4845.000	57.91	0.64	58.55	74.00	-15.45	peak
3	4845.000	45.69	0.64	46.33	54.00	-7.67	AVG
4	10605.000	35.18	11.93	47.11	74.00	-26.89	peak
5	13800.000	32.85	17.10	49.95	74.00	-24.05	peak
6	16905.000	32.92	19.99	52.91	74.00	-21.09	peak
7	17715.000	30.48	22.56	53.04	74.00	-20.96	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
- 5. For the transmitting duration, please refer to clause 7.1.
- 6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
 - 7. Proper operation of the transmitter prior to adding the filter to the measurement chain.



HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, VERTICAL)

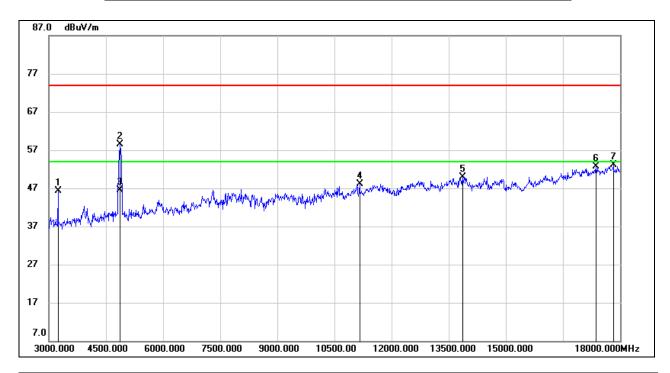


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	3990.000	51.32	-2.89	48.43	74.00	-25.57	peak
2	4845.000	51.28	0.64	51.92	74.00	-22.08	peak
3	7260.000	41.85	5.97	47.82	74.00	-26.18	peak
4	13845.000	33.86	16.70	50.56	74.00	-23.44	peak
5	17340.000	31.69	21.61	53.30	74.00	-20.70	peak
6	17730.000	30.57	22.70	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, HORIZONTAL)

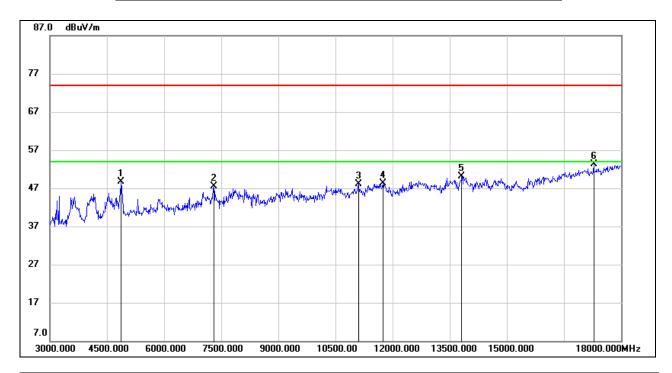


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	3240.000	50.65	-4.37	46.28	74.00	-27.72	peak
2	4875.000	57.74	0.76	58.50	74.00	-15.50	peak
3	4875.000	45.84	0.76	46.60	54.00	-7.40	AVG
4	11160.000	35.54	12.53	48.07	74.00	-25.93	peak
5	13860.000	33.39	16.56	49.95	74.00	-24.05	peak
6	17370.000	31.19	21.52	52.71	74.00	-21.29	peak
7	17820.000	29.86	23.30	53.16	74.00	-20.84	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
- 5. For the transmitting duration, please refer to clause 7.1.
- 6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
 - 7. Proper operation of the transmitter prior to adding the filter to the measurement chain.



HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, VERTICAL)

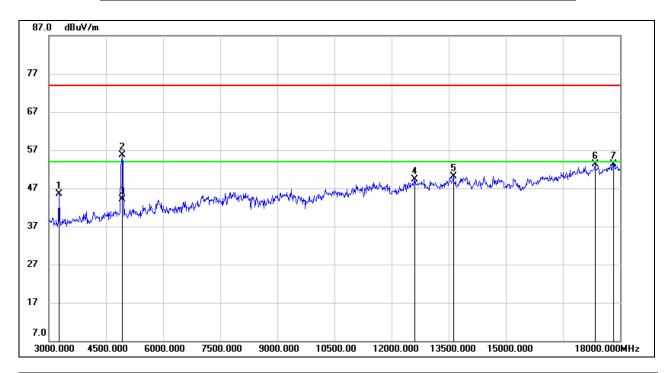


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4875.000	47.86	0.76	48.62	74.00	-25.38	peak
2	7305.000	41.37	6.08	47.45	74.00	-26.55	peak
3	11100.000	35.52	12.56	48.08	74.00	-25.92	peak
4	11745.000	35.25	13.05	48.30	74.00	-25.70	peak
5	13815.000	33.16	16.97	50.13	74.00	-23.87	peak
6	17280.000	31.75	21.59	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, HORIZONTAL)

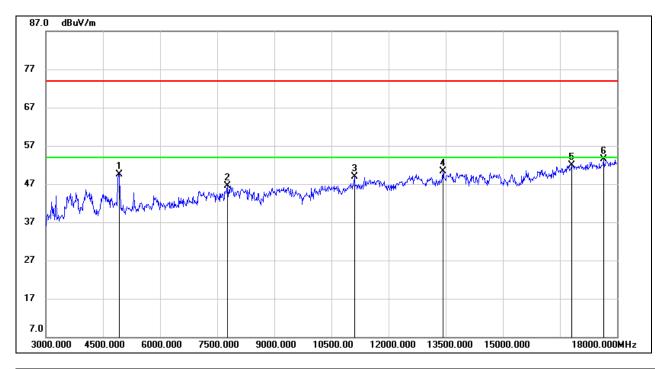


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	3270.000	49.73	-4.29	45.44	74.00	-28.56	peak
2	4920.000	54.74	0.96	55.70	74.00	-18.30	peak
3	4920.000	43.14	0.96	44.10	54.00	-9.90	AVG
4	12615.000	35.22	14.03	49.25	74.00	-24.75	peak
5	13620.000	34.18	15.99	50.17	74.00	-23.83	peak
6	17340.000	31.68	21.61	53.29	74.00	-20.71	peak
7	17820.000	30.04	23.30	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. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
- 5. For the transmitting duration, please refer to clause 7.1.
- 6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
 - 7. Proper operation of the transmitter prior to adding the filter to the measurement chain.



HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, VERTICAL)



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4920.000	48.54	0.96	49.50	74.00	-24.50	peak
2	7770.000	38.93	7.50	46.43	74.00	-27.57	peak
3	11100.000	36.37	12.56	48.93	74.00	-25.07	peak
4	13425.000	34.27	16.02	50.29	74.00	-23.71	peak
5	16815.000	31.95	19.96	51.91	74.00	-22.09	peak
6	17640.000	31.36	22.05	53.41	74.00	-20.59	peak

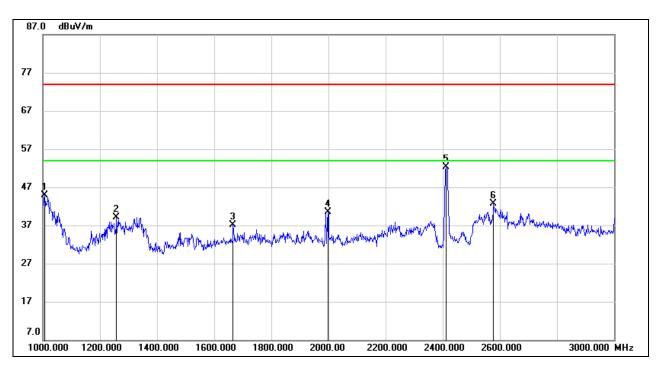
- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
 - 5. Proper operation of the transmitter prior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



8.3. SPURIOUS EMISSIONS (1~3GHz)

8.3.1. 802.11b MODE

HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, HORIZONTAL)

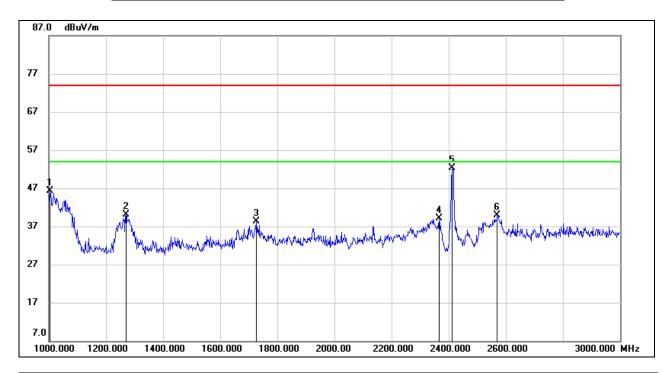


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1006.000	58.45	-13.59	44.86	74.00	-29.14	peak
2	1258.000	51.65	-12.49	39.16	74.00	-34.84	peak
3	1666.000	48.16	-11.07	37.09	74.00	-36.91	peak
4	1998.000	50.27	-9.83	40.44	74.00	-33.56	peak
5	2412.000	60.10	-7.77	52.33	/	/	fundamental
6	2578.000	50.30	-7.58	42.72	74.00	-31.28	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)

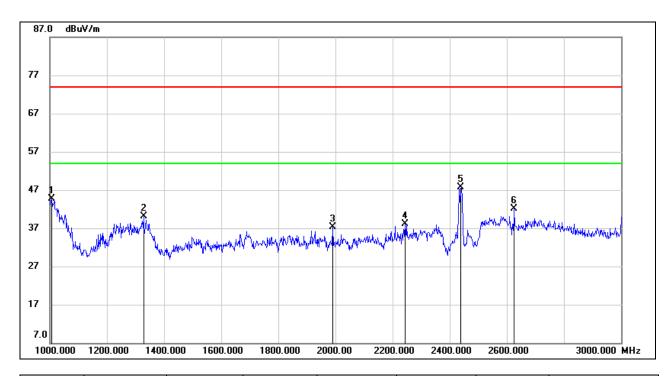


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1004.000	59.92	-13.58	46.34	74.00	-27.66	peak
2	1270.000	52.59	-12.44	40.15	74.00	-33.85	peak
3	1726.000	49.03	-10.65	38.38	74.00	-35.62	peak
4	2366.000	47.00	-7.97	39.03	74.00	-34.97	peak
5	2412.000	60.07	-7.77	52.30	/	/	fundamental
6	2570.000	47.47	-7.54	39.93	74.00	-34.07	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 (MID CHANNEL, HORIZONTAL)

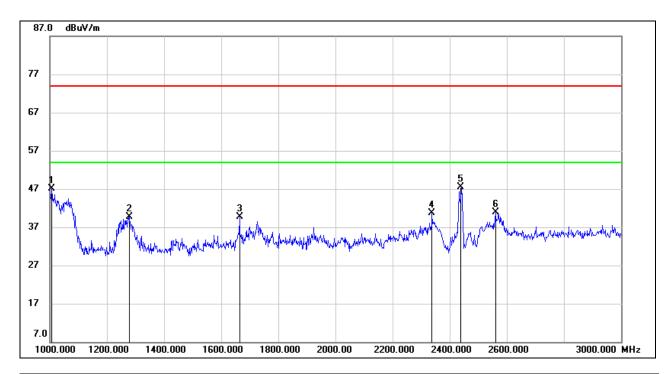


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1006.000	58.39	-13.59	44.80	74.00	-29.20	peak
2	1328.000	52.47	-12.36	40.11	74.00	-33.89	peak
3	1990.000	47.11	-9.84	37.27	74.00	-36.73	peak
4	2244.000	46.59	-8.45	38.14	74.00	-35.86	peak
5	2437.000	55.33	-7.60	47.73	/	/	fundamental
6	2626.000	49.62	-7.56	42.06	74.00	-31.94	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)

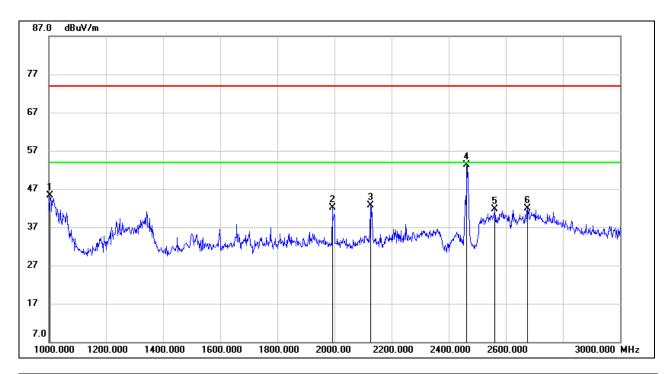


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1006.000	60.67	-13.59	47.08	74.00	-26.92	peak
2	1278.000	52.13	-12.42	39.71	74.00	-34.29	peak
3	1664.000	50.83	-11.09	39.74	74.00	-34.26	peak
4	2338.000	48.68	-8.06	40.62	74.00	-33.38	peak
5	2437.000	55.17	-7.60	47.57	/	/	fundamental
6	2560.000	48.42	-7.48	40.94	74.00	-33.06	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, HORIZONTAL)

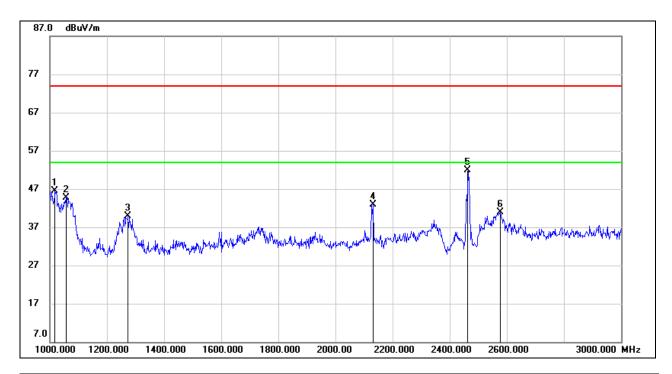


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1004.000	58.93	-13.58	45.35	74.00	-28.65	peak
2	1992.000	51.94	-9.83	42.11	74.00	-31.89	peak
3	2126.000	51.70	-9.02	42.68	74.00	-31.32	peak
4	2462.000	60.72	-7.43	53.29	/	/	fundamental
5	2562.000	49.23	-7.50	41.73	74.00	-32.27	peak
6	2676.000	49.26	-7.27	41.99	74.00	-32.01	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 (HIGH CHANNEL, VERTICAL)



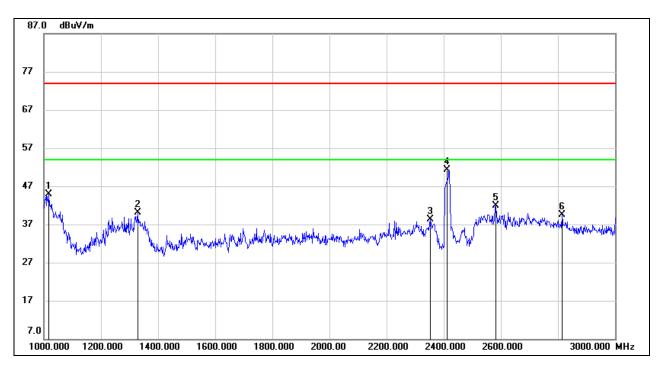
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1018.000	60.02	-13.58	46.44	74.00	-27.56	peak
2	1056.000	58.35	-13.55	44.80	74.00	-29.20	peak
3	1274.000	52.32	-12.43	39.89	74.00	-34.11	peak
4	2132.000	51.97	-9.00	42.97	74.00	-31.03	peak
5	2462.000	59.28	-7.43	51.85	/	/	fundamental
6	2578.000	48.45	-7.58	40.87	74.00	-33.13	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.



8.3.2. 802.11g MODE

HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, HORIZONTAL)

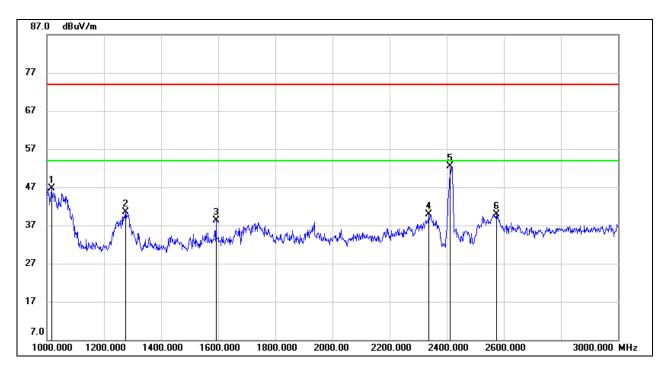


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1018.000	58.49	-13.58	44.91	74.00	-29.09	peak
2	1328.000	52.54	-12.36	40.18	74.00	-33.82	peak
3	2352.000	46.35	-8.02	38.33	74.00	-35.67	peak
4	2412.000	59.11	-7.77	51.34	/	/	fundamental
5	2582.000	49.55	-7.60	41.95	74.00	-32.05	peak
6	2814.000	45.45	-5.98	39.47	74.00	-34.53	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)

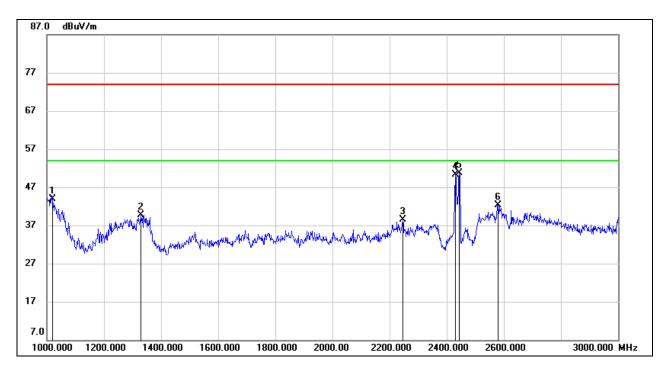


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1016.000	60.18	-13.57	46.61	74.00	-27.39	peak
2	1276.000	53.02	-12.42	40.60	74.00	-33.40	peak
3	1592.000	49.82	-11.47	38.35	74.00	-35.65	peak
4	2338.000	48.01	-8.06	39.95	74.00	-34.05	peak
5	2412.000	60.18	-7.77	52.41	/	/	fundamental
6	2574.000	47.54	-7.56	39.98	74.00	-34.02	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 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)

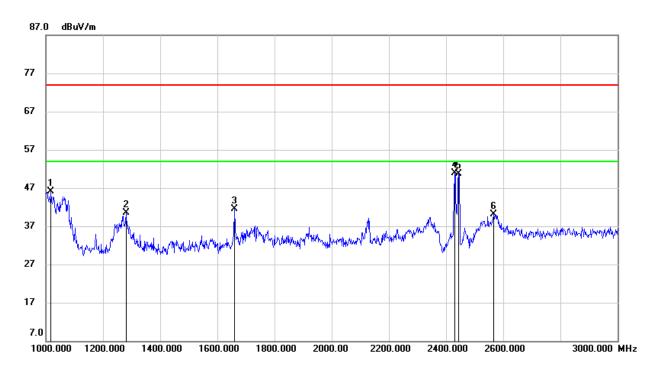


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1020.000	57.40	-13.57	43.83	74.00	-30.17	peak
2	1330.000	52.10	-12.36	39.74	74.00	-34.26	peak
3	2246.000	46.86	-8.45	38.41	74.00	-35.59	peak
4	2430.000	57.98	-7.65	50.33	74.00	-23.67	peak
5	2437.000	58.16	-7.55	50.61	/	/	fundamental
6	2580.000	49.82	-7.59	42.23	74.00	-31.77	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)

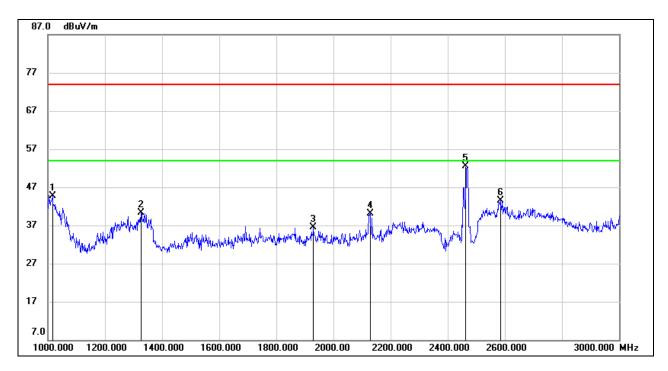


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1018.000	59.67	-13.58	46.09	74.00	-27.91	peak
2	1280.000	52.96	-12.41	40.55	74.00	-33.45	peak
3	1660.000	52.55	-11.10	41.45	74.00	-32.55	peak
4	2430.000	58.64	-7.65	50.99	74.00	-23.01	peak
5	2437.000	58.31	-7.55	50.76	/	/	fundamental
6	2566.000	47.57	-7.52	40.05	74.00	-33.95	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)

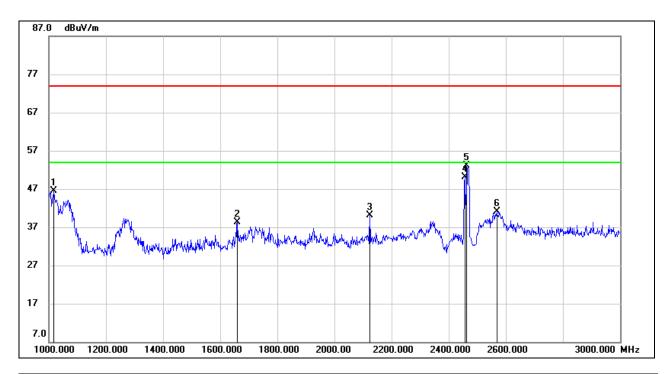


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1016.000	58.33	-13.57	44.76	74.00	-29.24	peak
2	1326.000	52.71	-12.35	40.36	74.00	-33.64	peak
3	1930.000	46.47	-9.92	36.55	74.00	-37.45	peak
4	2128.000	49.04	-9.02	40.02	74.00	-33.98	peak
5	2462.000	59.90	-7.43	52.47	/	/	fundamental
6	2584.000	51.07	-7.62	43.45	74.00	-30.55	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)



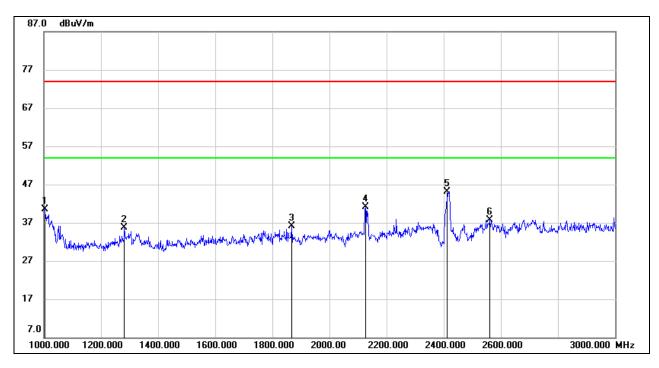
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1018.000	59.99	-13.58	46.41	74.00	-27.59	peak
2	1660.000	49.45	-11.10	38.35	74.00	-35.65	peak
3	2124.000	49.08	-9.04	40.04	74.00	-33.96	peak
4	2456.000	57.63	-7.47	50.16	74.00	-23.84	peak
5	2462.000	60.56	-7.43	53.13	/	/	fundamental
6	2568.000	48.67	-7.54	41.13	74.00	-32.87	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.



8.3.3. 802.11n HT20 MODE

HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, HORIZONTAL)

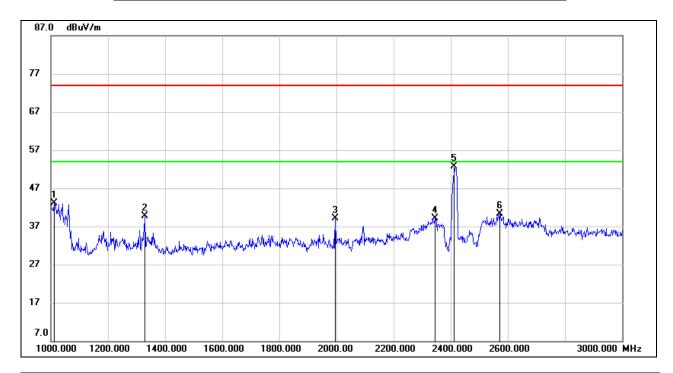


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1004.000	54.02	-13.58	40.44	74.00	-33.56	peak
2	1282.000	48.16	-12.40	35.76	74.00	-38.24	peak
3	1868.000	46.13	-9.94	36.19	74.00	-37.81	peak
4	2126.000	50.16	-9.02	41.14	74.00	-32.86	peak
5	2412.000	52.91	-7.77	45.14	/	/	fundamental
6	2562.000	45.25	-7.50	37.75	74.00	-36.25	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)

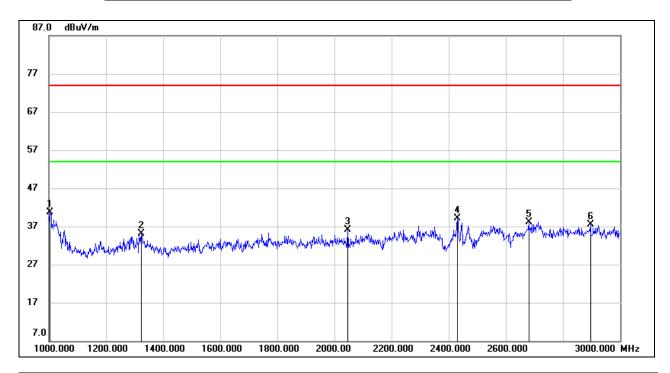


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1012.000	56.68	-13.58	43.10	74.00	-30.90	peak
2	1330.000	51.97	-12.36	39.61	74.00	-34.39	peak
3	1996.000	49.01	-9.83	39.18	74.00	-34.82	peak
4	2344.000	47.19	-8.05	39.14	74.00	-34.86	peak
5	2412.000	60.42	-7.77	52.65	/	/	fundamental
6	2572.000	47.90	-7.55	40.35	74.00	-33.65	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 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)

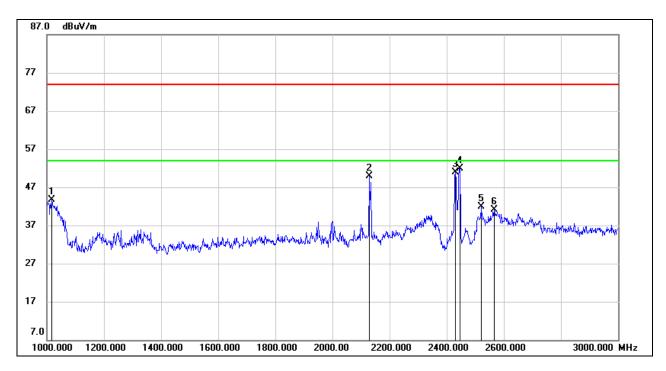


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1004.000	54.35	-13.58	40.77	74.00	-33.23	peak
2	1324.000	47.43	-12.36	35.07	74.00	-38.93	peak
3	2046.000	45.57	-9.52	36.05	74.00	-37.95	peak
4	2437.000	46.78	-7.65	39.13	/	/	fundamental
5	2680.000	45.43	-7.24	38.19	74.00	-35.81	peak
6	2896.000	43.01	-5.54	37.47	74.00	-36.53	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)

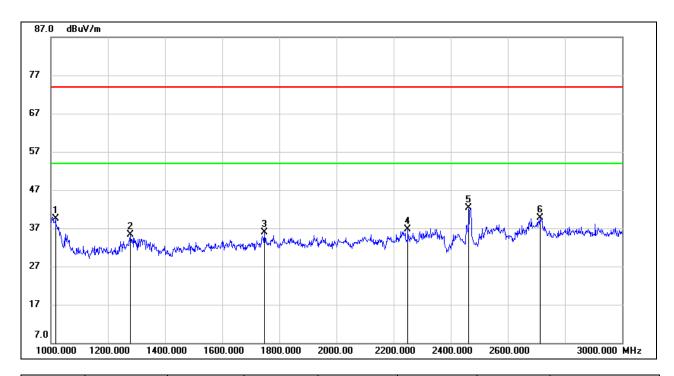


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1018.000	57.33	-13.58	43.75	74.00	-30.25	peak
2	2128.000	59.00	-9.02	49.98	74.00	-24.02	peak
3	2437.000	58.53	-7.65	50.88	/	/	fundamental
4	2446.000	59.50	-7.54	51.96	74.00	-22.04	peak
5	2520.000	49.21	-7.27	41.94	74.00	-32.06	peak
6	2566.000	48.53	-7.52	41.01	74.00	-32.99	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 (HIGH CHANNEL, HORIZONTAL)

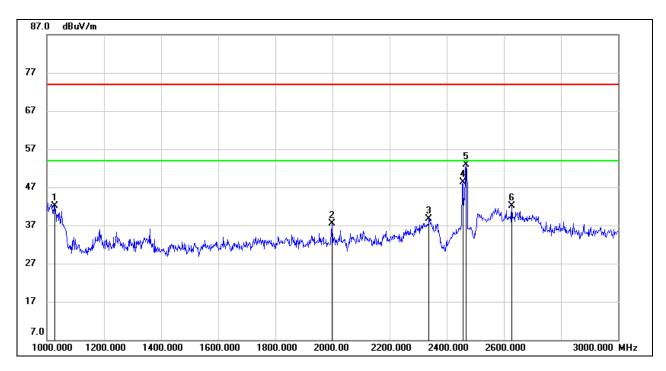


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1016.000	53.08	-13.57	39.51	74.00	-34.49	peak
2	1278.000	47.64	-12.42	35.22	74.00	-38.78	peak
3	1748.000	46.32	-10.43	35.89	74.00	-38.11	peak
4	2250.000	45.21	-8.43	36.78	74.00	-37.22	peak
5	2462.000	49.68	-7.43	42.25	/	/	fundamental
6	2712.000	46.62	-7.00	39.62	74.00	-34.38	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)



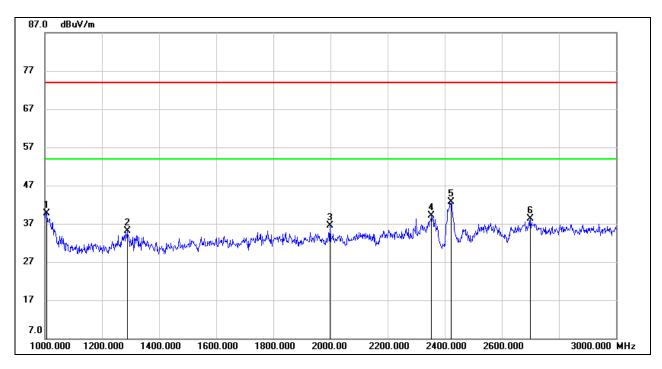
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1028.000	55.64	-13.58	42.06	74.00	-31.94	peak
2	1998.000	47.31	-9.83	37.48	74.00	-36.52	peak
3	2338.000	46.79	-8.06	38.73	74.00	-35.27	peak
4	2456.000	55.75	-7.47	48.28	74.00	-25.72	peak
5	2462.000	60.36	-7.39	52.97	/	/	fundamental
6	2628.000	49.56	-7.55	42.01	74.00	-31.99	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.



8.3.4. 802.11n HT40 MODE

HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, HORIZONTAL)

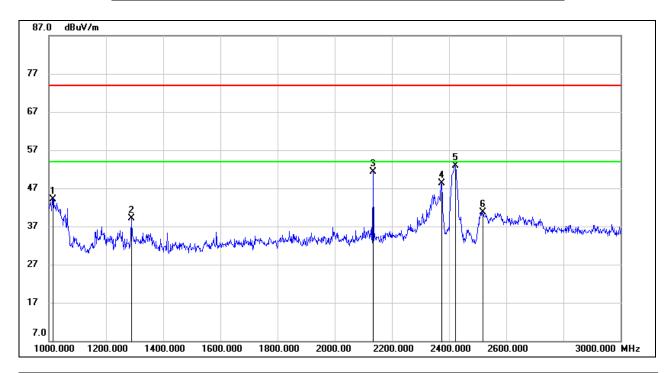


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1006.000	53.25	-13.59	39.66	74.00	-34.34	peak
2	1288.000	47.53	-12.38	35.15	74.00	-38.85	peak
3	1998.000	46.26	-9.83	36.43	74.00	-37.57	peak
4	2354.000	47.03	-8.01	39.02	74.00	-34.98	peak
5	2422.000	50.43	-7.71	42.72	/	/	fundamental
6	2700.000	45.41	-7.13	38.28	74.00	-35.72	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for 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)

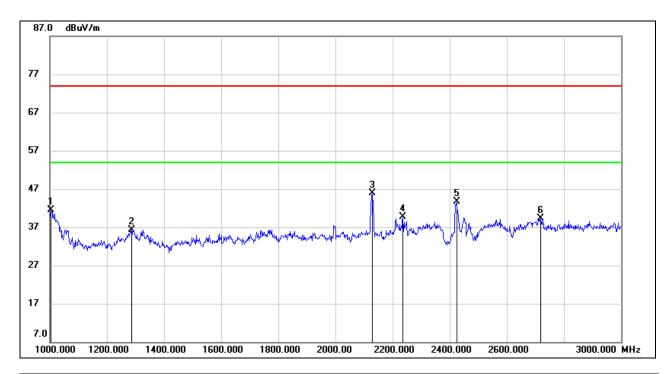


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1014.000	57.77	-13.57	44.20	74.00	-29.80	peak
2	1288.000	51.54	-12.38	39.16	74.00	-34.84	peak
3	2134.000	60.26	-8.99	51.27	74.00	-22.73	peak
4	2374.000	56.17	-7.95	48.22	74.00	-25.78	peak
5	2422.000	60.58	-7.71	52.87	/	/	fundamental
6	2518.000	47.90	-7.27	40.63	74.00	-33.37	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 (MID CHANNEL, HORIZONTAL)

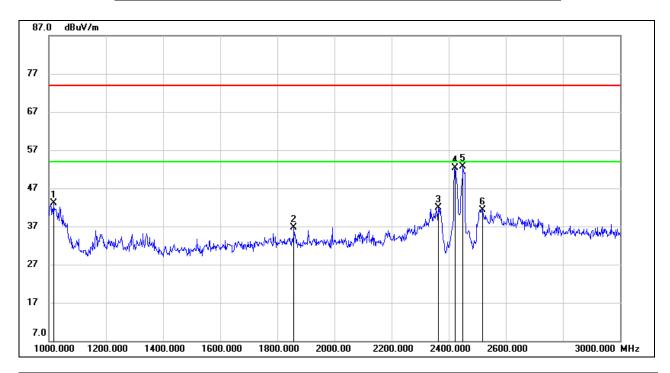


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1004.000	55.15	-13.58	41.57	74.00	-32.43	peak
2	1286.000	48.66	-12.39	36.27	74.00	-37.73	peak
3	2128.000	54.84	-9.02	45.82	74.00	-28.18	peak
4	2236.000	48.29	-8.49	39.80	74.00	-34.20	peak
5	2437.000	51.32	-7.70	43.62	/	/	fundamental
6	2718.000	46.29	-6.94	39.35	74.00	-34.65	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 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)

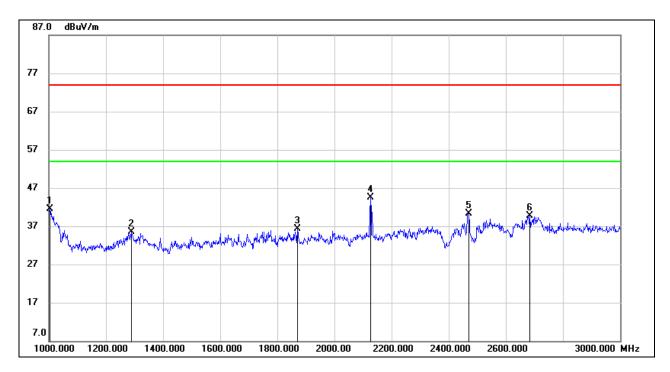


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1016.000	56.72	-13.57	43.15	74.00	-30.85	peak
2	1858.000	46.64	-9.93	36.71	74.00	-37.29	peak
3	2364.000	49.87	-7.98	41.89	74.00	-32.11	peak
4	2422.000	60.01	-7.71	52.30	74.00	-21.70	peak
5	2437.000	60.15	-7.51	52.64	/	/	fundamental
6	2518.000	48.61	-7.27	41.34	74.00	-32.66	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 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)

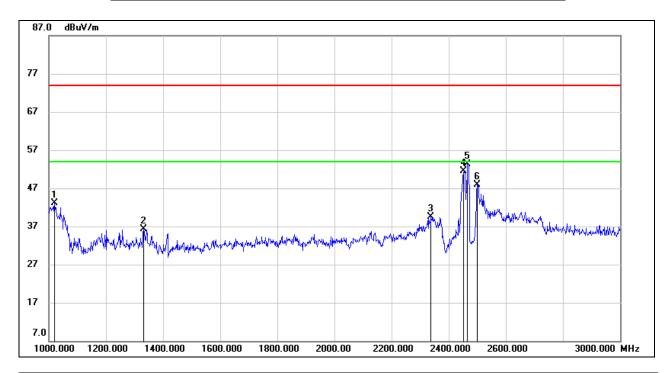


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1004.000	55.11	-13.58	41.53	74.00	-32.47	peak
2	1288.000	47.92	-12.38	35.54	74.00	-38.46	peak
3	1870.000	46.29	-9.94	36.35	74.00	-37.65	peak
4	2126.000	53.61	-9.02	44.59	74.00	-29.41	peak
5	2470.000	47.62	-7.37	40.25	74.00	-33.75	peak
6	2684.000	46.88	-7.23	39.65	74.00	-34.35	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	1020.000	56.70	-13.57	43.13	74.00	-30.87	peak
2	1332.000	48.64	-12.35	36.29	74.00	-37.71	peak
3	2338.000	47.65	-8.06	39.59	74.00	-34.41	peak
4	2452.000	59.01	-7.50	51.51	/	/	fundamental
5	2466.000	60.79	-7.40	53.39	74.00	-20.61	peak
6	2500.000	55.04	-7.17	47.87	74.00	-26.13	peak

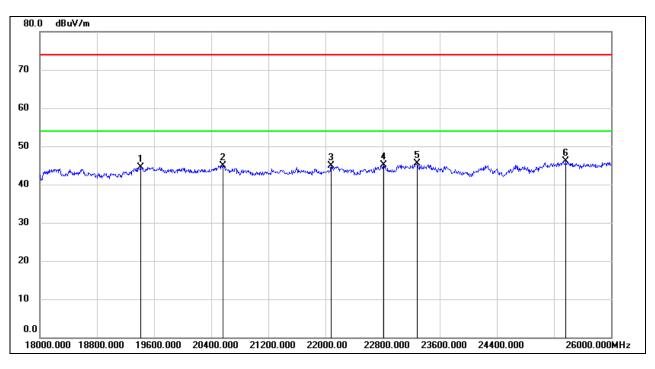
- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band Reject Filter losses.
 - 5. Proper operation of the transmitter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



8.4. SPURIOUS EMISSIONS (18~26GHz)

8.4.1. 802.11b MODE

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



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	19416.000	50.03	-5.55	44.48	74.00	-29.52	peak
2	20560.000	50.23	-5.30	44.93	74.00	-29.07	peak
3	22080.000	49.24	-4.39	44.85	74.00	-29.15	peak
4	22816.000	48.66	-3.63	45.03	74.00	-28.97	peak
5	23288.000	48.93	-3.33	45.60	74.00	-28.40	peak
6	25368.000	47.73	-1.72	46.01	74.00	-27.99	peak

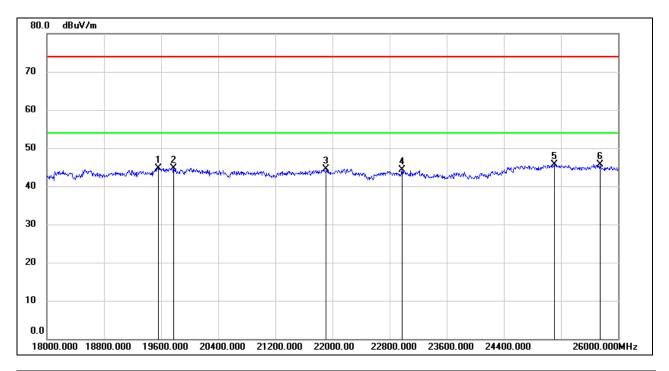
Note: 1. Measurement = Reading Level + Correct Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Peak: Peak detector.



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	19560.000	50.14	-5.48	44.66	74.00	-29.34	peak
2	19776.000	49.97	-5.28	44.69	74.00	-29.31	peak
3	21912.000	48.89	-4.43	44.46	74.00	-29.54	peak
4	22976.000	47.76	-3.46	44.30	74.00	-29.70	peak
5	25104.000	47.57	-1.92	45.65	74.00	-28.35	peak
6	25744.000	46.30	-0.64	45.66	74.00	-28.34	peak

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

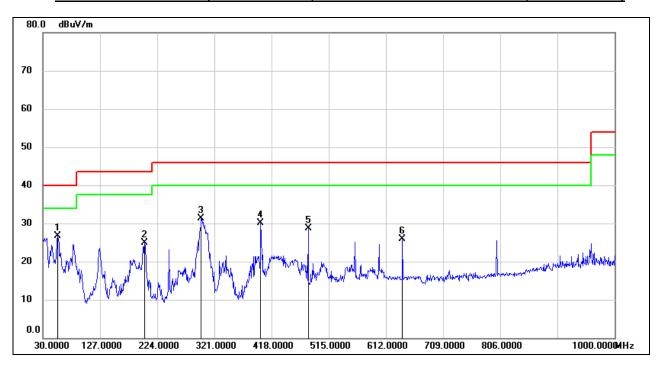
- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.



8.5. SPURIOUS EMISSIONS (0.03 ~ 1 GHz)

8.5.1. 802.11b MODE

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



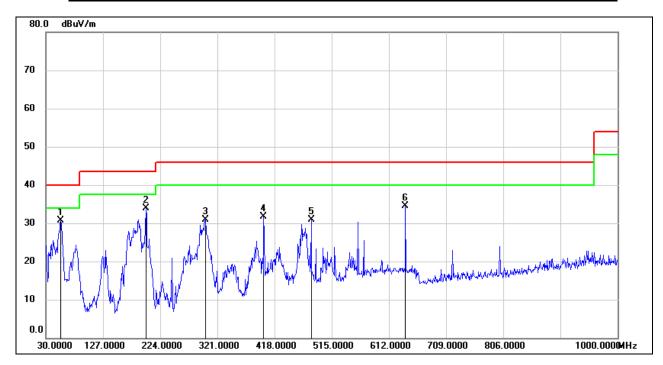
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	55.2200	47.54	-20.76	26.78	40.00	-13.22	QP
2	202.6600	41.68	-16.75	24.93	43.50	-18.57	QP
3	298.6900	47.03	-15.67	31.36	46.00	-14.64	QP
4	399.5700	43.71	-13.51	30.20	46.00	-15.80	QP
5	480.0800	40.61	-11.98	28.63	46.00	-17.37	QP
6	640.1300	35.43	-9.46	25.97	46.00	-20.03	QP

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

2. Test setup: RBW: 120 kHz, VBW: 300 kHz, Sweep time: auto.



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



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	55.2200	51.52	-20.76	30.76	40.00	-9.24	QP
2	199.7500	50.38	-16.57	33.81	43.50	-9.69	QP
3	300.6300	46.41	-15.57	30.84	46.00	-15.16	QP
4	399.5700	45.18	-13.51	31.67	46.00	-14.33	QP
5	480.0800	42.91	-11.98	30.93	46.00	-15.07	QP
6	640.1300	43.95	-9.46	34.49	46.00	-11.51	QP

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

2. Test setup: RBW: 120 kHz, VBW: 300 kHz, Sweep time: auto.

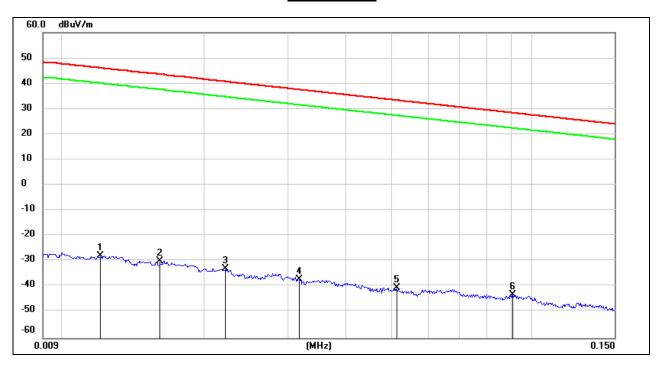


8.6. SPURIOUS EMISSIONS BELOW 30M

8.6.1. 802.11b MODE

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

9kHz~ 150kHz



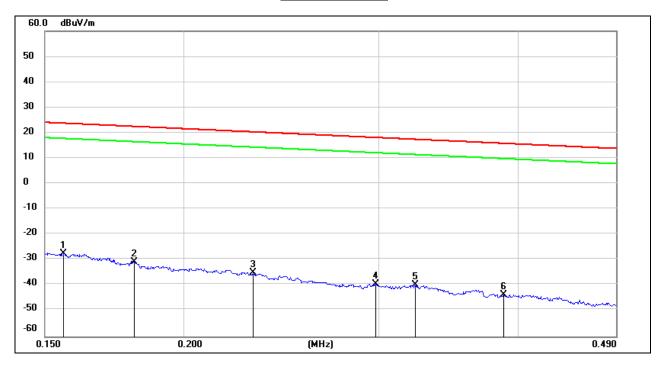
No.	Frequency	Reading	Correct	FCC Result	FCC Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	0.0120	73.66	-101.39	-27.73	46.02	-73.75	peak
2	0.0160	71.47	-101.37	-29.90	43.52	-73.42	peak
3	0.0221	68.63	-101.35	-32.72	40.71	-73.43	peak
4	0.0318	64.34	-101.40	-37.06	37.55	-74.61	peak
5	0.0514	61.18	-101.48	-40.30	33.38	-73.68	peak
6	0.0911	58.61	-101.72	-43.11	28.41	-71.52	peak

Note:

- 1. If Peak Result complies with AV and QP limit, AV and QP Result are deemed to comply with AV limit.
- 2. 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.





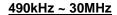


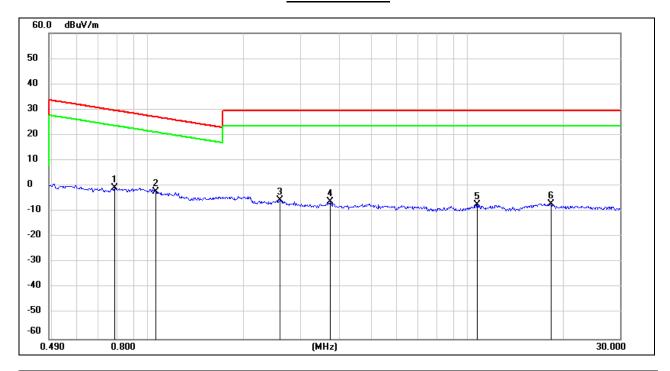
No.	Frequency	Reading	Correct	FCC Result	FCC Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	0.1559	74.15	-101.65	-27.50	23.74	-51.24	peak
2	0.1806	70.93	-101.68	-30.75	22.47	-53.22	peak
3	0.2308	66.83	-101.77	-34.94	20.34	-55.28	peak
4	0.2977	62.41	-101.85	-39.44	18.13	-57.57	peak
5	0.3234	61.98	-101.88	-39.90	17.41	-57.31	peak
6	0.3881	58.40	-101.95	-43.55	15.82	-59.37	peak

Note:

- 1. If Peak Result complies with AV and QP limit, AV and QP Result are deemed to comply with AV limit.
- 2. 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.







No.	Frequency	Reading	Correct	FCC Result	FCC Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	0.7861	61.33	-62.14	-0.81	29.69	-30.50	peak
2	1.0577	59.97	-62.24	-2.27	27.12	-29.39	peak
3	2.5935	56.11	-61.68	-5.57	29.54	-35.11	peak
4	3.7100	55.20	-61.41	-6.21	29.54	-35.75	peak
5	10.7299	53.48	-60.83	-7.35	29.54	-36.89	peak
6	18.2545	53.93	-60.90	-6.97	29.54	-36.51	peak

Note:

- 1. If Peak Result complies with AV and QP limit, AV and QP Result are deemed to comply with AV limit.
- 2. 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.



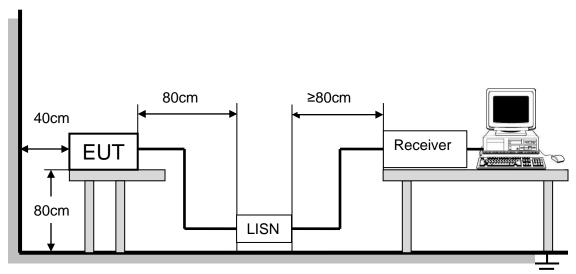
9. AC POWER LINE CONDUCTED EMISSIONS

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



The EUT is put on a table of non-conducting material that is 80cm high. The vertical conducting wall of shielding is located 40cm 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 30MHz using CISPR Quasi-Peak and average detector mode. The bandwidth of EMI test receiver is set at 9kHz.

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

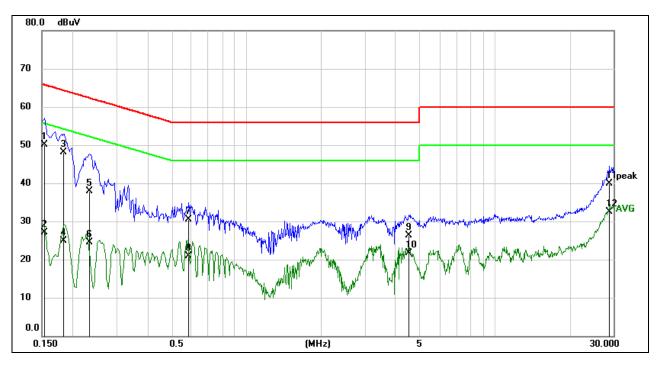
Temperature	24.7°C	Relative Humidity	59%
Atmosphere Pressure	101kPa	Test Voltage	AC 120V, 60Hz



TEST RESULTS

9.1. 802.11b MODE

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



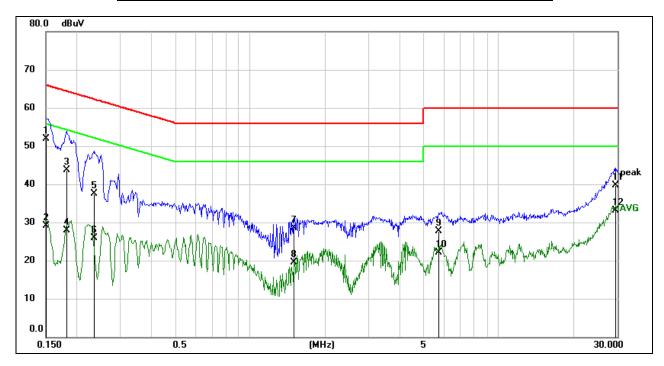
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dB)	
1	0.1539	40.40	9.61	50.01	65.79	-15.78	QP
2	0.1539	17.57	9.61	27.18	55.79	-28.61	AVG
3	0.1833	38.54	9.61	48.15	64.33	-16.18	QP
4	0.1833	15.26	9.61	24.87	54.33	-29.46	AVG
5	0.2340	28.38	9.60	37.98	62.31	-24.33	QP
6	0.2340	14.99	9.60	24.59	52.31	-27.72	AVG
7	0.5856	20.98	9.60	30.58	56.00	-25.42	QP
8	0.5856	11.28	9.60	20.88	46.00	-25.12	AVG
9	4.5100	16.72	9.67	26.39	56.00	-29.61	QP
10	4.5100	12.12	9.67	21.79	46.00	-24.21	AVG
11	28.9377	30.02	9.83	39.85	60.00	-20.15	QP
12	28.9377	22.66	9.83	32.49	50.00	-17.51	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: 80Hz (0.009MHz-0.15MHz), 4 kHz (0.15MHz-30MHz), 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	0.1500	42.26	9.61	51.87	66.00	-14.13	QP
2	0.1500	19.42	9.61	29.03	56.00	-26.97	AVG
3	0.1819	34.15	9.61	43.76	64.40	-20.64	QP
4	0.1819	18.35	9.61	27.96	54.40	-26.44	AVG
5	0.2353	27.89	9.60	37.49	62.26	-24.77	QP
6	0.2353	16.28	9.60	25.88	52.26	-26.38	AVG
7	1.5020	18.86	9.62	28.48	56.00	-27.52	QP
8	1.5020	9.94	9.62	19.56	46.00	-26.44	AVG
9	5.7300	17.99	9.69	27.68	60.00	-32.32	QP
10	5.7300	12.39	9.69	22.08	50.00	-27.92	AVG
11	29.6219	29.89	9.79	39.68	60.00	-20.32	QP
12	29.6219	23.26	9.79	33.05	50.00	-16.95	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: 80Hz (0.009MHz-0.15MHz), 4 kHz (0.15MHz-30MHz), Scan time: auto.



10. ANTENNA REQUIREMENTS

APPLICABLE REQUIREMENTS

Please refer to FCC §15.203

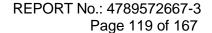
An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply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

Please refer to FCC §15.247(b)(4)

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

RESULTS

Complies





11. Appendix

11.1. Appendix A: Duty Cycle 11.1.1. Test Result

Mode	On Time (msec)	Period (msec)	Duty Cycle x (Linear)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	1/T Minimum VBW (KHz)	Final setting For VBW (KHz)
11b	100	100	1.0	100	0	0.01	0.02
11g	100	100	1.0	100	0	0.01	0.02
11n HT20	100	100	1.0	100	0	0.01	0.02
11n HT40	100	100	1.0	100	0	0.01	0.02

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.

For mode 11b, the duty cycle is greater than 98%, so it can set VBW to 10Hz.



11.1.2. Test Graphs









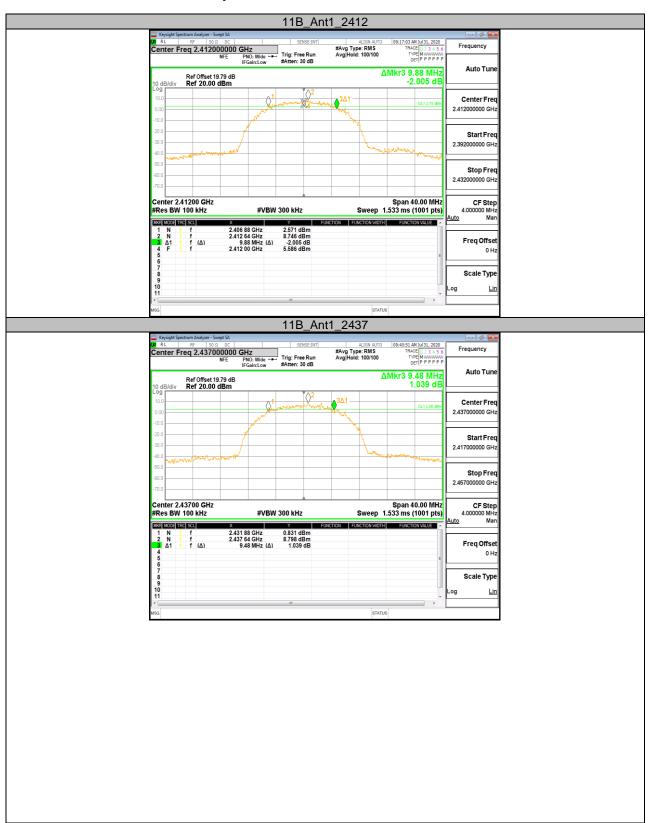
11.2. Appendix B: DTS Bandwidth

11.2.1. **Test** Result

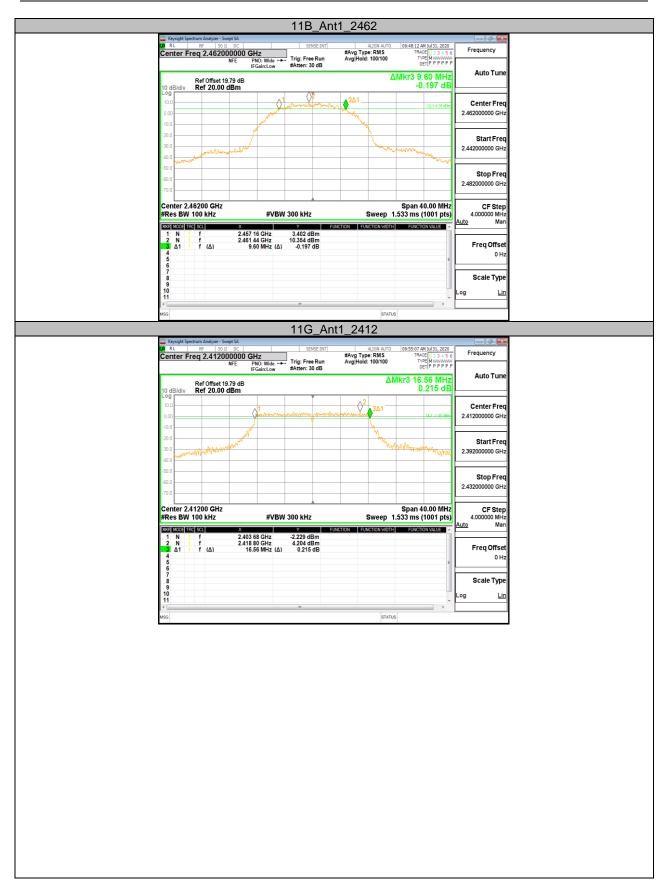
Test Mode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
		2412	9.880	2406.880	2416.760	0.5	PASS
11B	Ant1	2437	9.480	2431.880	2441.360	0.5	PASS
		2462	9.600	2457.160	2466.760	0.5	PASS
		2412	16.560	2403.680	2420.240	0.5	PASS
11G	Ant1	2437	16.560	2428.720	2445.280	0.5	PASS
		2462	16.560	2453.680	2470.240	0.5	PASS
		2412	17.760	2403.040	2420.800	0.5	PASS
11N20SISO	Ant1	2437	17.760	2428.120	2445.880	0.5	PASS
		2462	17.760	2453.120	2470.880	0.5	PASS
		2422	36.560	2403.680	2440.240	0.5	PASS
11N40SISO	Ant1	2437	36.560	2418.680	2455.240	0.5	PASS
		2452	36.560	2433.680	2470.240	0.5	PASS



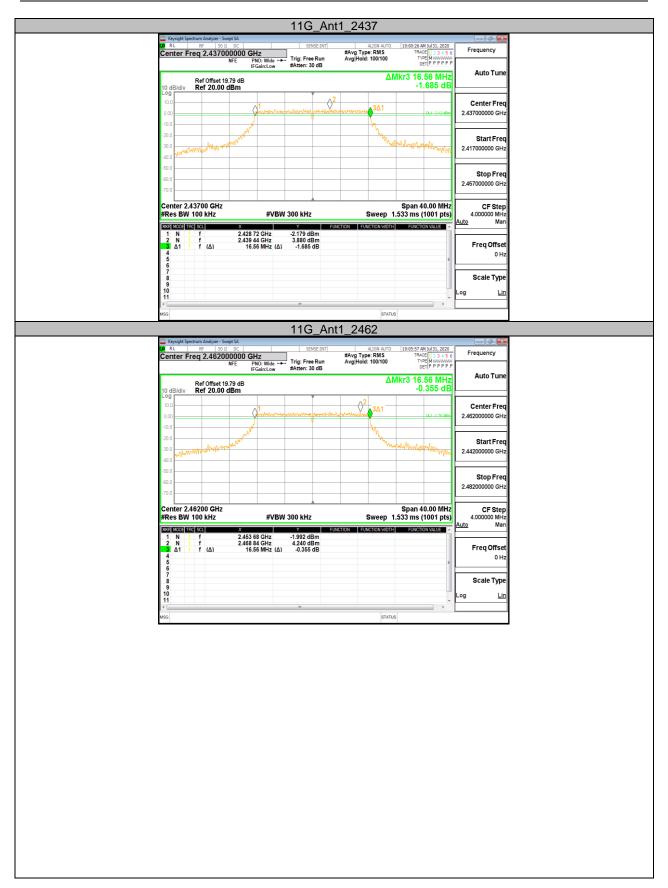
11.2.2. Test Graphs



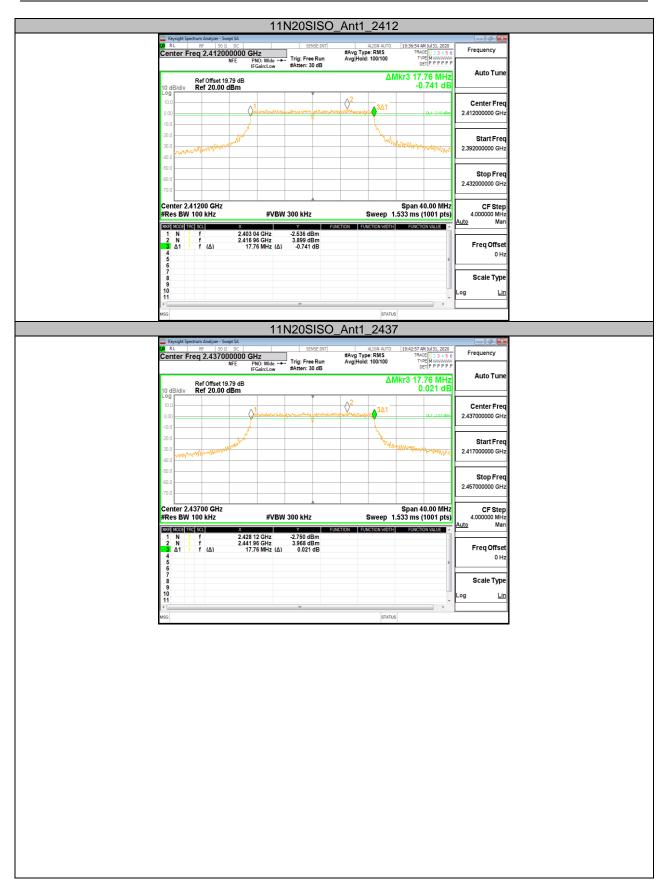




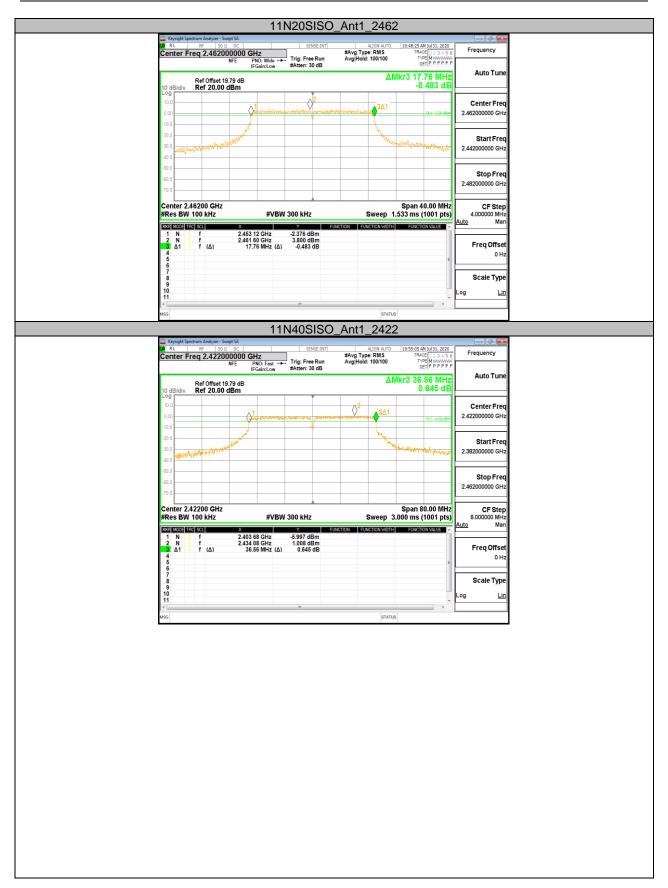


















11.3. Appendix C: Occupied Channel Bandwidth 11.3.1. Test Result

Test Mode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	13.167	2405.358	2418.525		PASS
		2437	13.130	2430.405	2443.535		PASS
		2462	13.267	2455.335	2468.602		PASS
11G	Ant1	2412	17.063	2403.467	2420.530		PASS
		2437	17.003	2428.490	2445.493		PASS
		2462	17.118	2453.430	2470.548		PASS
11N20SISO	Ant1	2412	17.802	2403.055	2420.857		PASS
		2437	17.791	2428.030	2445.821		PASS
		2462	17.847	2452.997	2470.844		PASS
11N40SISO	Ant1	2422	36.978	2403.506	2440.484		PASS
		2437	36.789	2418.656	2455.445		PASS
		2452	37.130	2433.455	2470.585		PASS



11.3.2. Test Graphs









