

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

TEST REPORT

For

Outdoor Smart Plug

MODEL NUMBER: CPLGOD2BLG1

FCC ID: PUU-CPLGOD2BLG1 IC: 10798A-CPLGOD2BLG1

REPORT NUMBER: 4789516666-2

ISSUE DATE: June 22, 2020

Prepared for

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Consumer Lighting Canada Company, dba GE Lighting, a Savant Company(ISED) 1975 Noble Road Cleveland OH 44112 United States Of America

Prepared by

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Revision History

Rev.	Issue Date	Revisions	Revised By
V0	06/22/2020	Initial Issue	



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

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

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



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1. ATTESTATION OF TEST RESULTS

FCC Applicant Information Company Name: Address:	Consumer Lighting (U.S.) LLC dba GE Lighting, a Savant Company 1975 Noble Road Cleveland, Ohio 44112 United States
FCC Manufacturer Information Company Name: Address:	Consumer Lighting (U.S.) LLC dba GE Lighting, a Savant Company 1975 Noble Road Cleveland, Ohio 44112 United States
ISED Applicant Information Company Name: Address:	Consumer Lighting Canada Company, dba GE Lighting, a Savant Company 1975 Noble Road Cleveland OH 44112 United States Of America
ISED Manufacturer Information Company Name: Address:	Consumer Lighting Canada Company, dba GE Lighting, a Savant Company 1975 Noble Road Cleveland OH 44112 United States Of America

EUT Information

EUT Name:	Outdoor Smart Plug
Model:	CPLGOD2BLG1
Sample Status:	Normal
Sample ID:	3102161
Sample Received Date:	June 11, 2020
Date of Tested:	June 12~19, 2020

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



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2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with KDB 558074 D01 15.247 Meas Guidance v05r02, 414788 D01 Radiated Test Site v01r01, KDB 662911 D01 Multiple Transmitter Output v02r01, CFR 47 FCC Part 2, CFR 47 FCC Part 15, ANSI C63.10-2013, ISED RSS-247 Issue 2 and ISED RSS-GEN Issue 5.

3. FACILITIES AND ACCREDITATION

	A2LA (Certificate No.: 4102.01) UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. has been assessed and proved to be in compliance with A2LA.
	FCC (FCC Designation No.: CN1187) UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. Has been recognized to perform compliance testing on equipment subject to the Commission's Delcaration of Conformity (DoC) and Certification rules
Accreditation Certificate	 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.
	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.



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)		
	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	Outdoor Smart Plug		
Model Name	CPLGOD2BLG1		
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]	16.89	
1	IEEE 802.11g	2412-2462	1-11[11]	15.37	
1	IEEE 802.11nHT20	2412-2462	1-11[11]	14.39	
1	IEEE 802.11nHT40	2422-2452	3-9[7]	14.47	

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	nnel Frequenc y(MHz) Cha		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 Softw	vare		UI _mptool						
Transmit			Test Software setting value						
Modulation Mode	Antenna		NCB: 20MHz			NCB: 40MHz			
Mode	Number	CH 1	CH 6	CH 11	CH 3	CH 6	CH 9		
802.11b	1	37	36	36					
802.11g	1	41	41 40 40			/			
802.11n HT20	1	39 39 39							
802.11n HT40	1		/			39	39		

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	integral antenna	1.65

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



5.9. DESCRIPTION OF TEST SETUP

SUPPORT EQUIPMENT

Item	Equipment	Brand Name	Model Name	Remarks
1	Laptop	ThinkPad	X230i	/
2	USB TO UART	/	/	/

I/O CABLES

Cable No	Port	Connector Type	Cable Type	Cable Length(m)	Remarks
1	USB	/	/	1.0	/

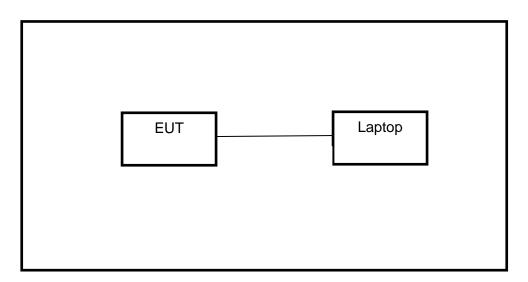
ACCESSORIES

Item	Accessory	Brand Name	Model Name	Description
1	/	/	/	/

TEST SETUP

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

SETUP DIAGRAM FOR TESTS



6. MEASURING INSTRUMENT AND SOFTWARE USED

			Cond	lucte	d Emis	sion	s			
				Instr	rument					
Used	Equipment	Manufacturer	Model No.			Seria	l No.	Last Cal.	Next Cal.	
	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	I	NSLK	8126		8126	6465	Dec.05,2019	Dec.05,2020
				Sof	tware				Γ	
Used		Description	l				Manufa	acturer	Name	Version
	Test Softwa	re for Conduct	ted dis	turba	nce		Fa	rad	EZ-EMC	Ver. UL-3A1
Radiated Emissions										
				Instr	ument		-			
Used	Equipment	Manufacturer		Mode	el No.		Seria	l No.	Last Cal.	Next Cal.
\checkmark	MXE EMI Receiver	KESIGHT		N90	38A		MY564	00036	Dec.06,2019	Dec.05,2020
V	Hybrid Log Periodic Antenna	TDK	HLP-3003C			130	960	Sep.17,2018	Sep.17,2021	
\checkmark	Preamplifier	HP		844	47D		2944A	09099	Dec.05,2019	Dec.05,2020
V	EMI Measurement Receiver	R&S		ES	R26		101	377	Dec.05,2019	Dec.05,2020
\checkmark	Horn Antenna	TDK		HRN	-0118		130	939	Sep.17,2018	Sep.17,2021
V	High Gain Horn Antenna	Schwarzbeck	E	BBHA	-9170		69		Aug.11,2018	Aug.11,2021
V	Preamplifier	TDK	F	PA-02	2-0118		TRS- 000)67	Dec.05,2019	Dec.05,2020
	Preamplifier	TDK		PA-	02-2		TRS- 000		Dec.05,2019	Dec.05,2020
	Loop antenna	Schwarzbeck			19B		000	800	Jan.07,2019	Jan.07,2022
V	Band Reject Filter	Wainwright	2483	.5-25	2350-24 33.5-40	SS	2	1	Dec.05,2019	Dec.05,2020
V	High Pass Filter	Wi	WHKX10-2700-3000- 18000-40SS			00-	2	3	Dec.05,2019	Dec.05,2020
				Sof	tware					
Used	De	scription			Man	ufact	turer		Name	Version
\checkmark	Test Software for	Radiated dist	urband	e		arac	db	I	EZ-EMC	Ver. UL-3A1
			Oth	ner in	strume	ents				
Usec	Equipment	Manufac	cturer Mod		lel No.	S	erial No) .	Last Cal.	Next Cal.
\checkmark	Spectrum Analyz		ght	N9	030A	MY	554105	512 D	ec.06,2019	Dec.05,2020
V	Power sensor, Po	wer R&S	5	OS	P120		100921	C	Dec.06,2019	Dec.06,2020

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7. ANTENNA PORT TEST RESULTS

7.1. ON TIME AND DUTY CYCLE

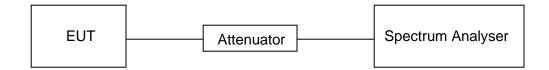
<u>LIMITS</u>

None; for reporting purposes only

PROCEDURE

KDB 558074 Zero-Span Spectrum Analyzer Method

TEST SETUP



TEST ENVIRONMENT

Temperature	25.5°C	Relative Humidity	62%
Atmosphere Pressure	101kPa	Test Voltage	AC 120V, 60Hz

RESULTS

Please refer to appendix G.

7.2. 6 dB DTS BANDWIDTH AND 99% OCCUPIED BANDWIDTH

<u>LIMITS</u>

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

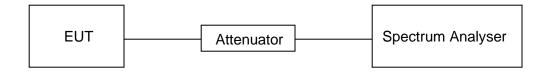
TEST PROCEDURE

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

Center Frequency	The centre frequency of the channel under test
Detector	Peak
RBW	For 6dB Bandwidth :100kHz For 99% Occupied Bandwidth :1% to 5% of the occupied bandwidth
VBW	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





TEST ENVIRONMENT

Temperature	25.5°C	Relative Humidity	62%
Atmosphere Pressure	101kPa	Test Voltage	AC 120V, 60Hz

RESULTS

Please refer to appendix A and B.

7.3. CONDUCTED OUTPUT POWER

LIMITS

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

TEST PROCEDURE

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

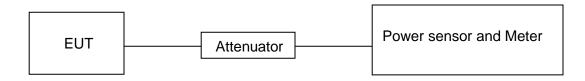
Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the Power sensor.

Measure peak power each channel.

Peak Detector use for Peak result.

AVG Detector use for AVG result.

TEST SETUP



TEST ENVIRONMENT

Temperature	25.5°C	Relative Humidity	62%
Atmosphere Pressure	101kPa	Test Voltage	AC 120V, 60Hz



RESULTS

Please refer to appendix C.

7.4. POWER SPECTRAL DENSITY

LIMITS

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

TEST PROCEDURE

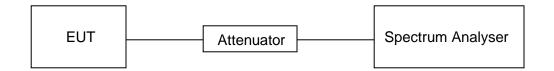
Connect the UUT to the spectrum analyser and use the following settings:

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	25.5°C	Relative Humidity	62%
Atmosphere Pressure	101kPa	Test Voltage	AC 120V, 60Hz

RESULTS

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Please refer to appendix C.

7.5. CONDUCTED BANDEDGE AND SPURIOUS EMISSIONS

LIMITS

CFR 47 FCC Part15 (15.247) Subpart C ISED RSS-247 ISSUE 2			
Section Test Item Limit			
CFR 47 FCC §15.247 (d) ISED RSS-247 5.5	Conducted Bandedge and Spurious Emissions	at least 20 dB below that in the 100 kHz bandwidth within the band that contains 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.

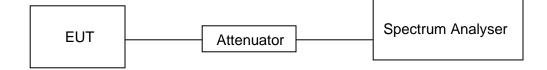
Use the peak marker function to determine the maximum PSD level.

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	25.5°C	Relative Humidity	62%
Atmosphere Pressure	101kPa	Test Voltage	AC 120V, 60Hz

RESULTS

Please refer to appendix E and F.



8. RADIATED TEST RESULTS

LIMITS

Please refer to CFR 47 FCC §15.205 and §15.209

Please refer to ISED RSS-GEN Clause 8.9 (Transmitter)

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

Emissions radiated outside of the specified frequency bands above 30MHz			
Frequency Range	Field Strength Limit	Field Strength Limit (dBuV/m) at 3 m Quasi-Peak	
(MHz)	(uV/m) at 3 m		
30 - 88	100	40	
88 - 216	150	43.5	
216 - 960	200	46	
Above 960	500	54	
Above 1000	500	Peak	Average
	300	74	54

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

ISED General field strength limits at frequencies below 30 MHz

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

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



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

z	MHz	GHz
90 - 0.110	149.9 - 150.05	9.0 - 9.2
5 - 0.505	158.52475 - 158.52525	9.3 - 9.5
735 - 2.1905	156.7 - 156.9	10.6 - 12.7
20 - 3.026	182.0125 - 187.17	13.25 - 13.4
25 - 4.128	167.72 - 173.2	14.47 - 14.5
725 - 4.17775	240 - 285	15.35 - 16.2
0725 - 4.20775	322 - 335.4	17.7 - 21.4
77 - 5.683	399.9 - 410	22.01 - 23.12
15 - 6.218	608 - 614	23.8 - 24.0
3775 - 6.26825	960 - 1427	31.2 - 31.8
1175 - 6.31225	1435 - 1626.5	36.43 - 36.5
91 - 8.294	1645.5 - 1648.5	Above 38.6
32 - 8.366	1660 - 1710	
7625 - 8.38675	1718.8 - 1722.2	
425 - 8.41475	2200 - 2300	
29 - 12.293	2310 - 2390	
51975 - 12.52025	2483.5 - 2500	
57675 - 12.57725	2655 - 2900	
36 - 13.41	3260 - 3267	
42 - 16.423	3332 - 3339	
39475 - 16.69525	3345.8 - 3358	
30425 - 16.80475	3500 - 4400	
5 - 25.67	4500 - 5150	
5 - 38.25	5350 - 5460	
74.6	7250 - 7750	
- 75.2	8025 - 8500	

Note 1: Certain frequency bands listed in table 7 and in bands above 38.6 GHz are designated for licence-exempt applications. These frequency bands and the requirements that apply to related devices are set out in the 200 and 300 series of RSSs.

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

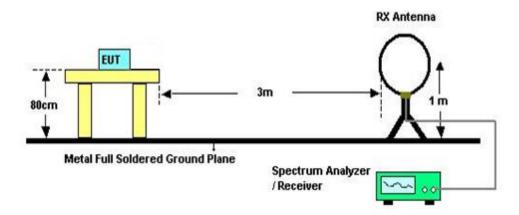
MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
¹ 0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218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

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TEST SETUP AND PROCEDURE

Below 30MHz



The setting of the spectrum analyser

RBW	200Hz (From 9kHz to 0.15MHz)/ 9kHz (From 0.15MHz to 30MHz)
VBW	200Hz (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.

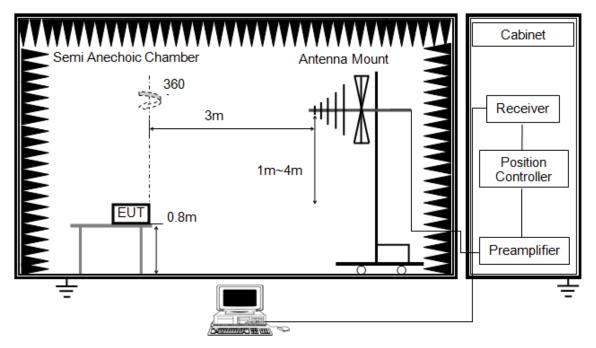
5. For measurement below 1GHz, the initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured. If the emission level of the EUT measured by the 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	120kHz
VBW	300kHz
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.

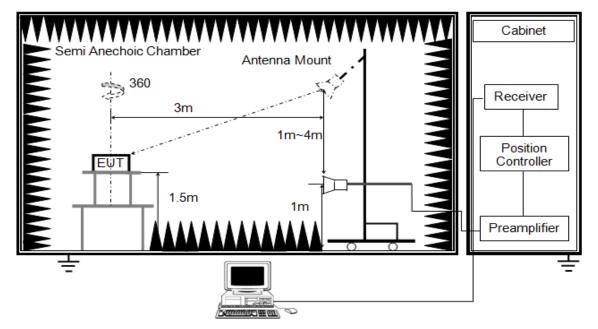
3. The EUT was placed on a turntable with 0.8 meter above ground.

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	1MHz
IV BVV	PEAK: 3MHz 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.

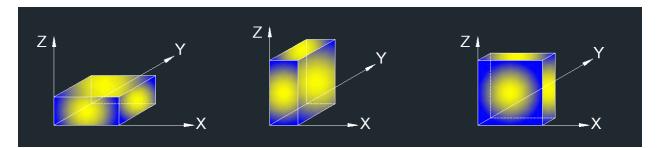
4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.

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

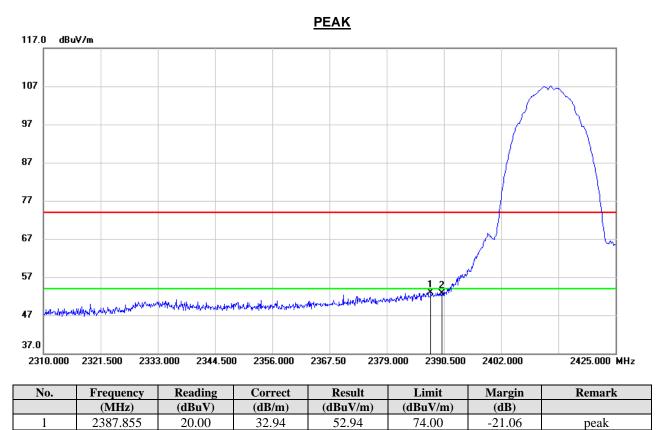
Temperature	23.2°C	Relative Humidity	58%
Atmosphere Pressure	101kPa	Test Voltage	AC 120V, 60Hz



8.1. RESTRICTED BANDEDGE

8.1.1. 802.11b MODE





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

19.75

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

52.69

74.00

-21.31

peak

3. Peak: Peak detector.

2390.000

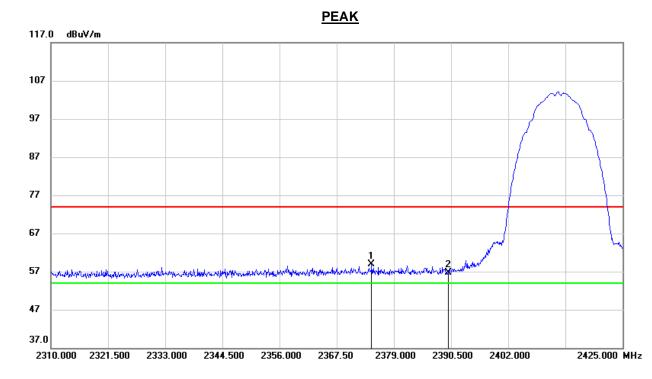
2

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

32.94



RESTRICTED BANDEDGE (LOW CHANNEL, VERTICAL)



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB / m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2374.515	26.09	32.89	58.98	74.00	-15.02	peak
2	2390.000	23.78	32.94	56.72	74.00	-17.28	peak

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

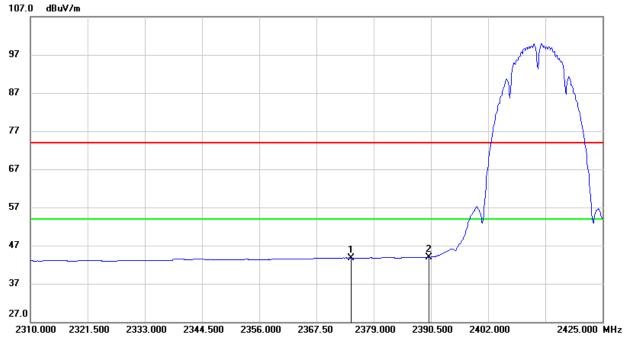
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Peak: Peak detector.

4. 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	2374.515	10.89	32.89	43.78	54.00	-10.22	AVG
2	2390.000	11.04	32.94	43.98	54.00	-10.02	AVG

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

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

3. Peak: Peak detector.

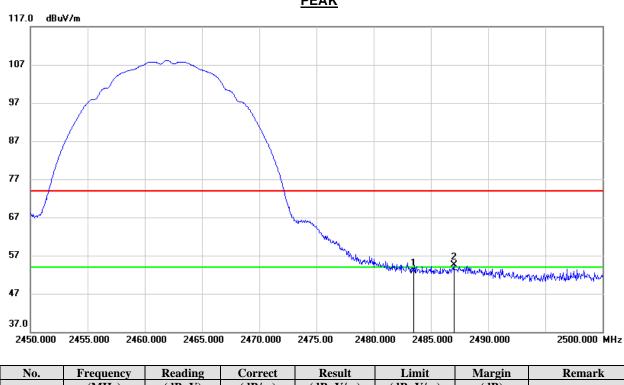
4. AVG: VBW=1/Ton, where: Ton is the transmitting duration.

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	19.41	33.58	52.99	74.00	-21.01	peak
2	2487.000	20.88	33.61	54.49	74.00	-19.51	peak

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

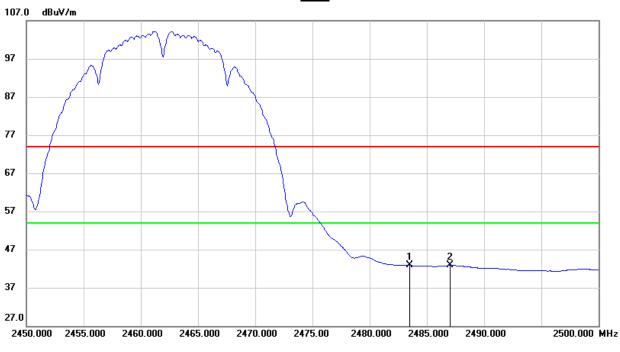
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Peak: Peak detector.

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

<u>PEAK</u>





No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB / m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2483.500	9.30	33.58	42.88	54.00	-11.12	AVG
2	2487.000	9.25	33.61	42.86	54.00	-11.14	AVG

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

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

3. Peak: Peak detector.

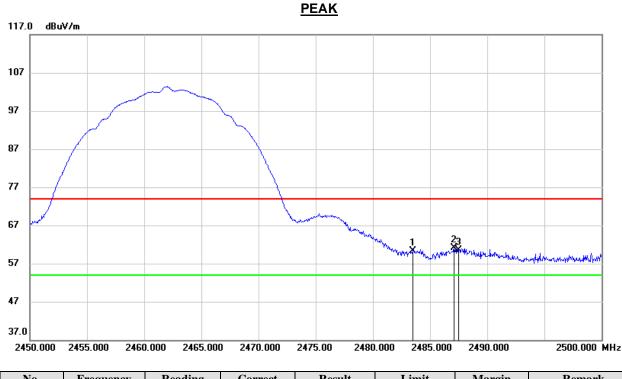
4. AVG: VBW=1/Ton, where: Ton is the transmitting duration.

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.

AVG

RESTRICTED BANDEDGE (HIGH CHANNEL, VERTICAL)



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB / m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2483.500	26.64	33.58	60.22	74.00	-13.78	peak
2	2487.100	27.54	33.61	61.15	74.00	-12.85	peak
3	2487.500	26.83	33.61	60.44	74.00	-13.56	peak

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

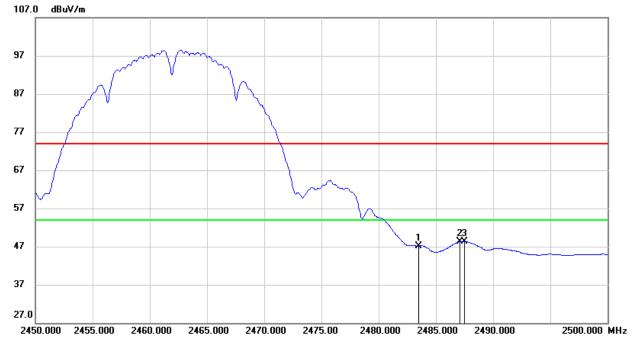
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Peak: Peak detector.

4. 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	13.61	33.58	47.19	54.00	-6.81	AVG
2	2487.100	14.61	33.61	48.22	54.00	-5.78	AVG
3	2487.500	14.75	33.61	48.36	54.00	-5.64	AVG

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

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

3. Peak: Peak detector.

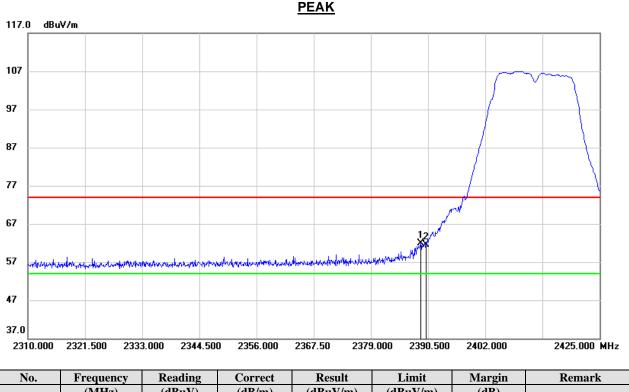
4. AVG: VBW=1/Ton, where: Ton is the transmitting duration.

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)

	(MHz)	(dBuV)	(dB / m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2389.005	28.90	32.94	61.84	74.00	-12.16	peak
2	2390.000	28.63	32.94	61.57	74.00	-12.43	peak

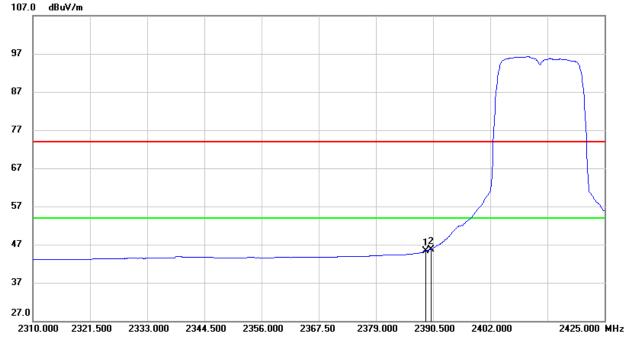
Note: 1. Measurement = Reading Level + Correct Factor.

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

3. Peak: Peak detector.



AVG



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB / m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2389.005	12.34	32.94	45.28	54.00	-8.72	AVG
2	2390.000	12.85	32.94	45.79	54.00	-8.21	AVG

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

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

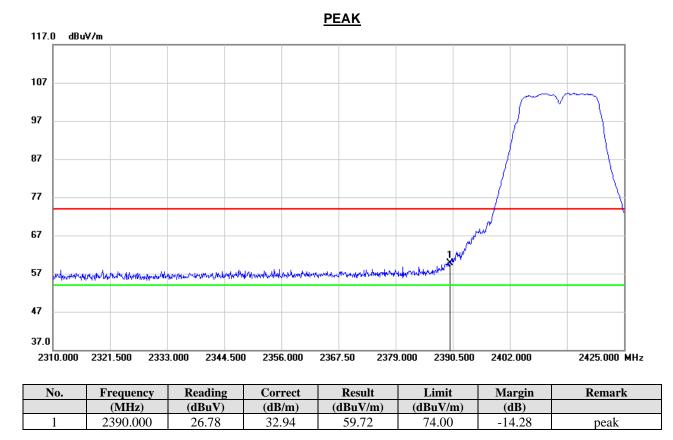
3. Peak: Peak detector.

4. AVG: VBW=1/Ton, where: Ton is the transmitting duration.

5. For the transmitting duration, please refer to clause 7.1.



RESTRICTED BANDEDGE (LOW CHANNEL, VERTICAL)



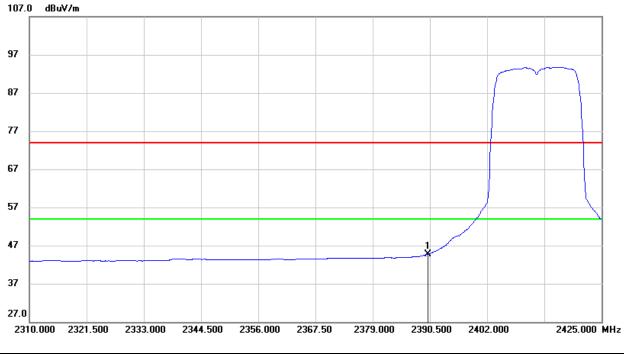
Note: 1. Measurement = Reading Level + Correct Factor.

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

3. Peak: Peak detector.



<u>AVG</u>



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB / m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2390.000	11.76	32.94	44.70	54.00	-9.30	AVG

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

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

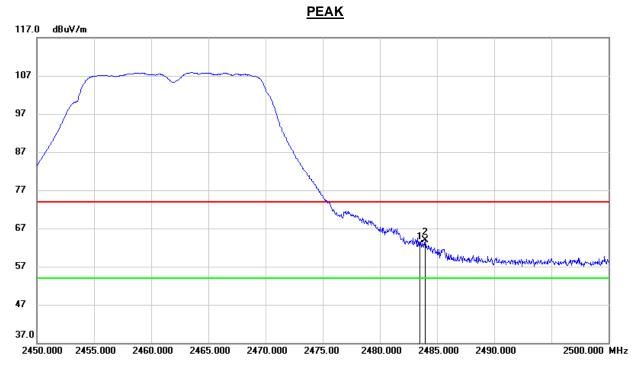
3. Peak: Peak detector.

4. AVG: VBW=1/Ton, where: Ton is the transmitting duration.

5. For the transmitting duration, please refer to clause 7.1.



RESTRICTED BANDEDGE (HIGH CHANNEL, HORIZONTAL)

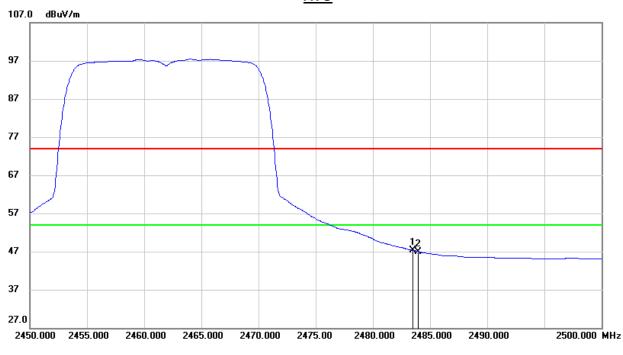


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB / m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2483.500	29.17	33.58	62.75	74.00	-11.25	peak
2	2483.950	30.40	33.58	63.98	74.00	-10.02	peak

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.



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB / m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2483.500	13.72	33.58	47.30	54.00	-6.70	AVG
2	2483.950	13.42	33.58	47.00	54.00	-7.00	AVG

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

3. Peak: Peak detector.

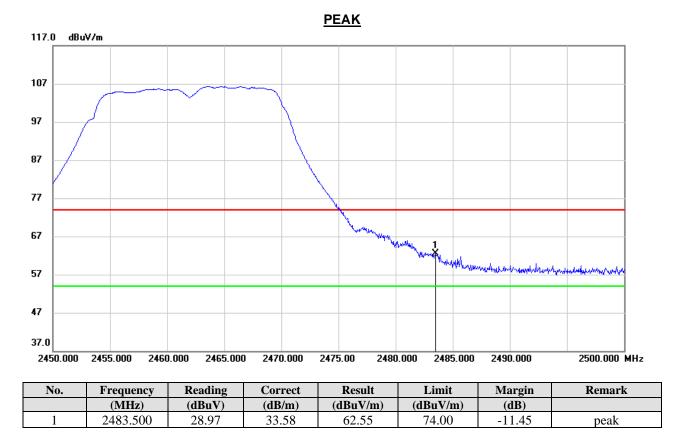
4. AVG: VBW=1/Ton, where: Ton is the transmitting duration.

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.

AVG

RESTRICTED BANDEDGE (HIGH CHANNEL, VERTICAL)



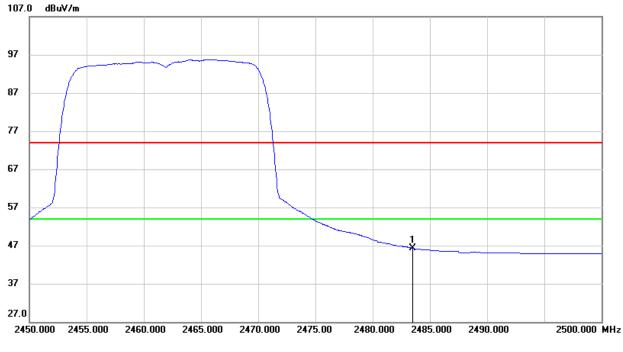
Note: 1. Measurement = Reading Level + Correct Factor.

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

3. Peak: Peak detector.



AVG



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB / m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2483.500	12.76	33.58	46.34	54.00	-7.66	AVG

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

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

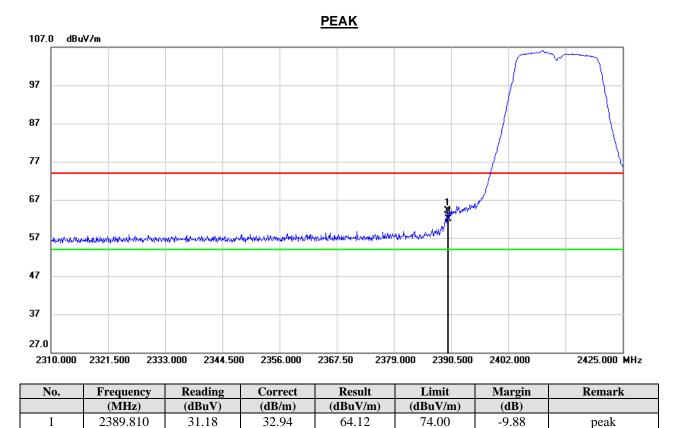
3. Peak: Peak detector.

4. AVG: VBW=1/Ton, where: Ton is the transmitting duration.

5. For the transmitting duration, please refer to clause 7.1.



8.1.3. 802.11n HT20 MODE



RESTRICTED BANDEDGE (LOW CHANNEL, HORIZONTAL)

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

28.93

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

61.87

74.00

-12.13

peak

3. Peak: Peak detector.

2390.000

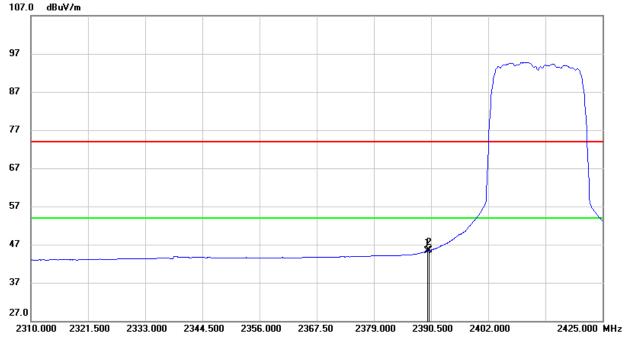
2

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

32.94



AVG



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB / m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2389.810	12.37	32.94	45.31	54.00	-8.69	AVG
2	2390.000	12.49	32.94	45.43	54.00	-8.57	AVG

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

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

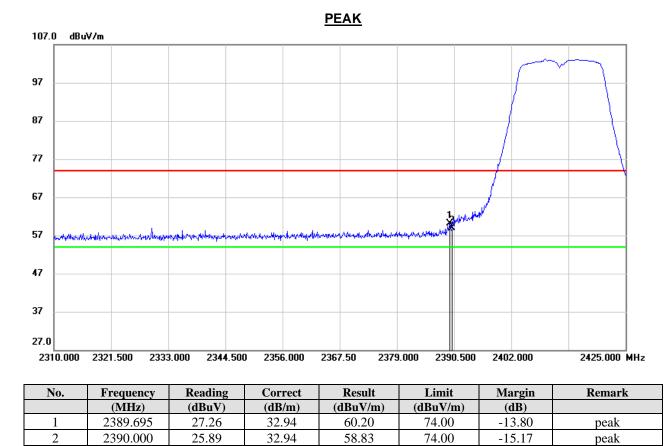
3. Peak: Peak detector.

4. AVG: VBW=1/Ton, where: Ton is the transmitting duration.

5. For the transmitting duration, please refer to clause 7.1.



RESTRICTED BANDEDGE (LOW CHANNEL, VERTICAL)



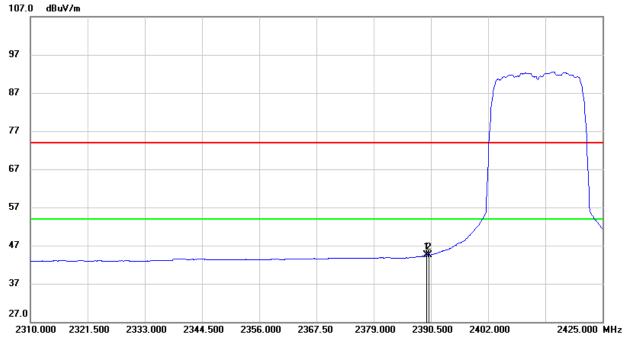
Note: 1. Measurement = Reading Level + Correct Factor.

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

3. Peak: Peak detector.



<u>AVG</u>



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB / m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2389.695	11.51	32.94	44.45	54.00	-9.55	AVG
2	2390.000	11.62	32.94	44.56	54.00	-9.44	AVG

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

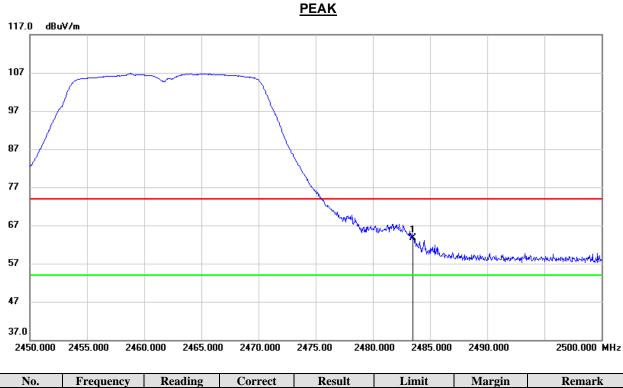
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. 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.

RESTRICTED BANDEDGE (HIGH CHANNEL, HORIZONTAL)

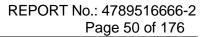


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB / m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2483.500	30.07	33.58	63.65	74.00	-10.35	peak

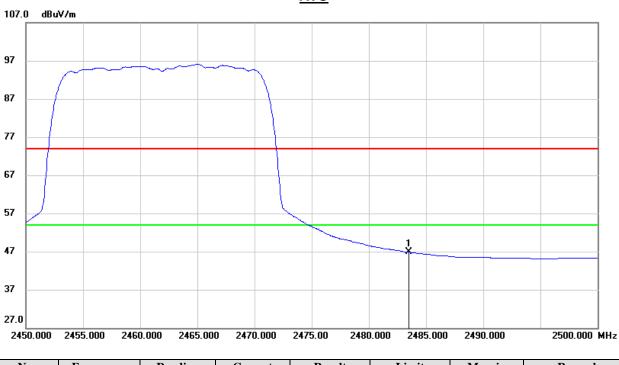
Note: 1. Measurement = Reading Level + Correct Factor.

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

3. Peak: Peak detector.







No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB / m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2483.500	13.31	33.58	46.89	54.00	-7.11	AVG

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

3. Peak: Peak detector.

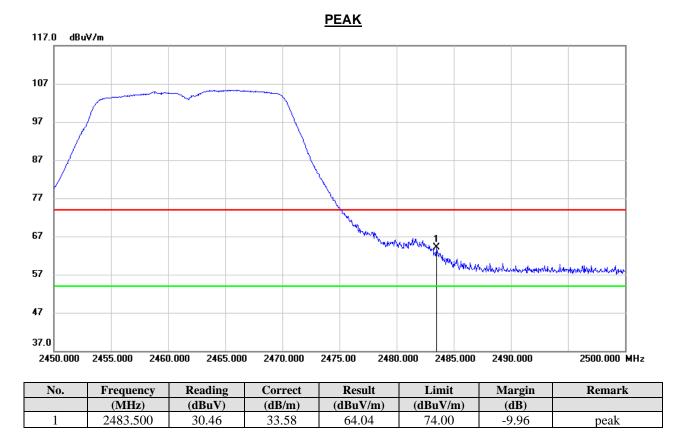
4. AVG: VBW=1/Ton, where: Ton is the transmitting duration.

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.

AVG

RESTRICTED BANDEDGE (HIGH CHANNEL, VERTICAL)



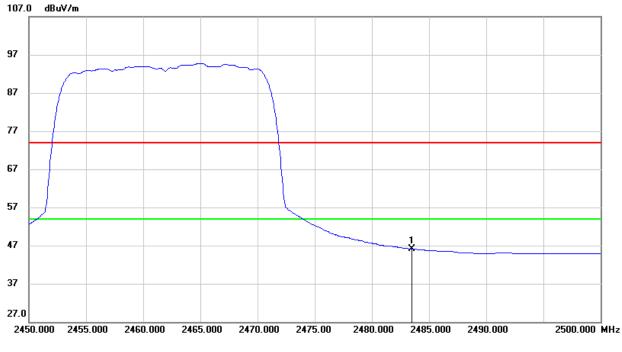
Note: 1. Measurement = Reading Level + Correct Factor.

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

3. Peak: Peak detector.



AVG



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB / m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2483.500	12.56	33.58	46.14	54.00	-7.86	AVG

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

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

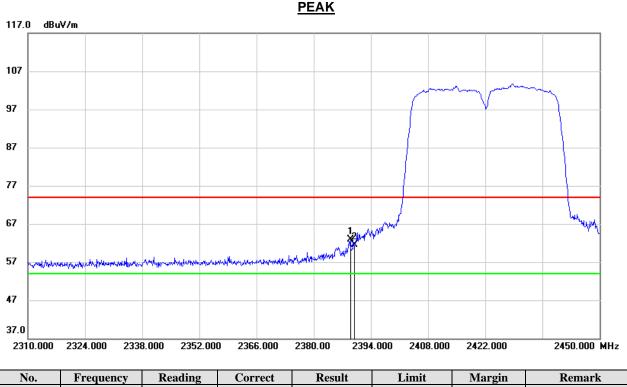
3. Peak: Peak detector.

4. AVG: VBW=1/Ton, where: Ton is the transmitting duration.

5. For the transmitting duration, please refer to clause 7.1.



8.1.4. 802.11n HT40 MODE



RESTRICTED BANDEDGE (LOW CHANNEL, HORIZONTAL)

No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB / m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2388.960	29.97	32.94	62.91	74.00	-11.09	peak
2	2390.000	28.59	32.94	61.53	74.00	-12.47	peak

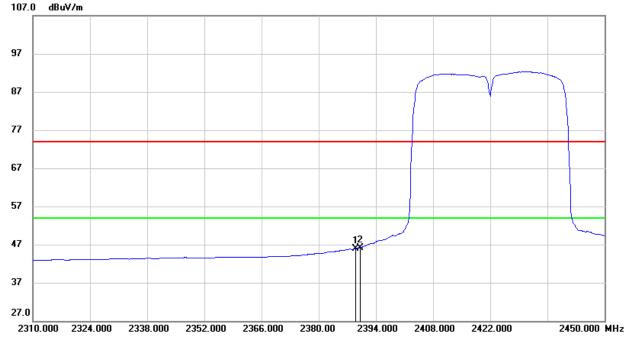
Note: 1. Measurement = Reading Level + Correct Factor.

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

3. Peak: Peak detector.







No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB / m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2388.960	13.04	32.94	45.98	54.00	-8.02	AVG
2	2390.000	13.24	32.94	46.18	54.00	-7.82	AVG

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

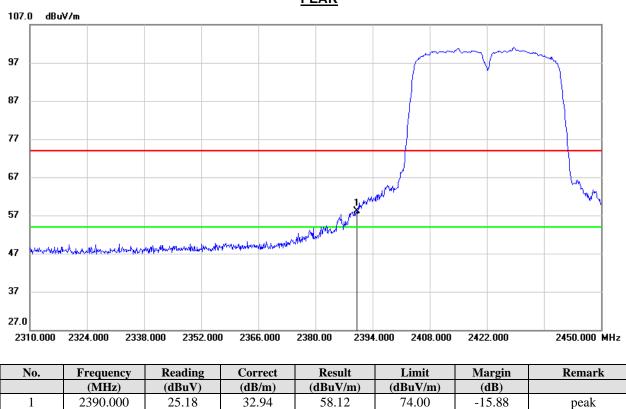
3. Peak: Peak detector.

4. AVG: VBW=1/Ton, where: Ton is the transmitting duration.

5. For the transmitting duration, please refer to clause 7.1.



RESTRICTED BANDEDGE (LOW CHANNEL, VERTICAL)



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

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

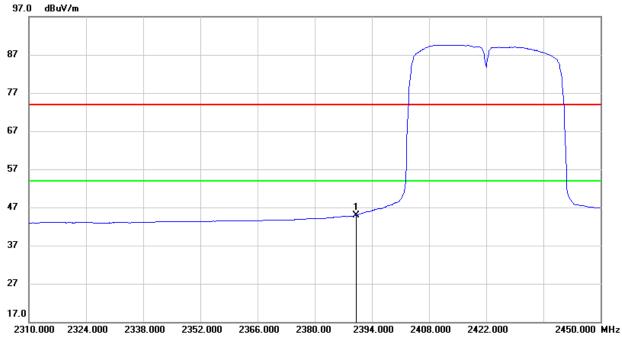
3. Peak: Peak detector.

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

<u>PEAK</u>



AVG



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB / m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2390.000	12.03	32.94	44.97	54.00	-9.03	AVG

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

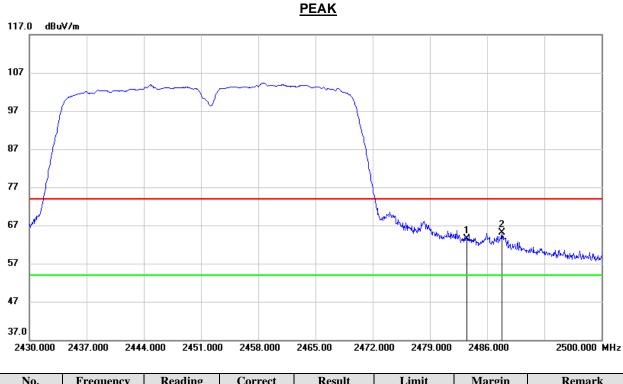
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. 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.

RESTRICTED BANDEDGE (HIGH CHANNEL, HORIZONTAL)

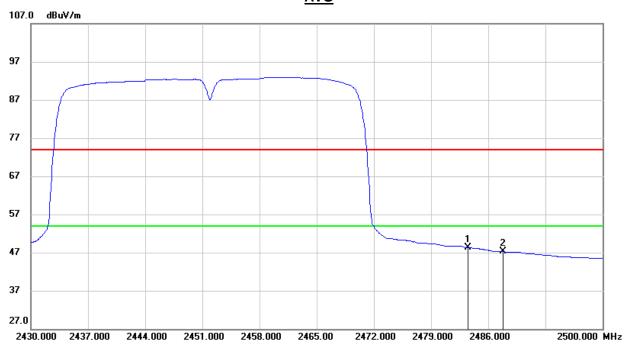


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB / m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2483.500	29.85	33.58	63.43	74.00	-10.57	peak
2	2487.820	31.41	33.61	65.02	74.00	-8.98	peak

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.



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB / m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2483.500	14.78	33.58	48.36	54.00	-5.64	AVG
2	2487.820	13.64	33.61	47.25	54.00	-6.75	AVG

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

3. Peak: Peak detector.

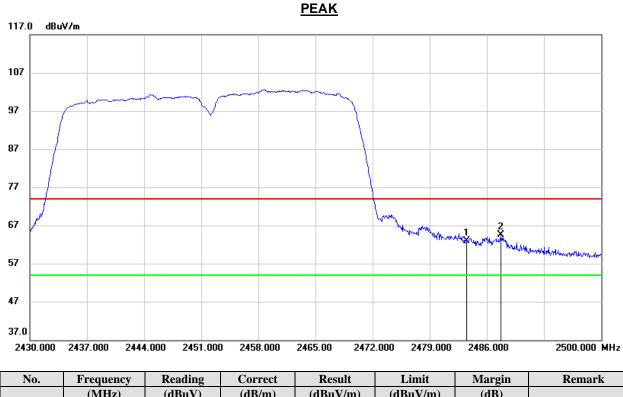
4. AVG: VBW=1/Ton, where: Ton is the transmitting duration.

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.

AVG

RESTRICTED BANDEDGE (HIGH CHANNEL, VERTICAL)



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB / m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2483.500	29.27	33.58	62.85	74.00	-11.15	peak
2	2487.680	30.89	33.61	64.50	74.00	-9.50	peak

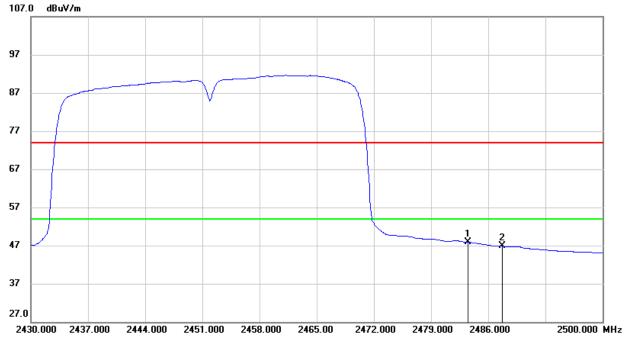
Note: 1. Measurement = Reading Level + Correct Factor.

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

3. Peak: Peak detector.



AVG



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB / m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2483.500	14.23	33.58	47.81	54.00	-6.19	AVG
2	2487.680	13.23	33.61	46.84	54.00	-7.16	AVG

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

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

3. Peak: Peak detector.

4. AVG: VBW=1/Ton, where: Ton is the transmitting duration.

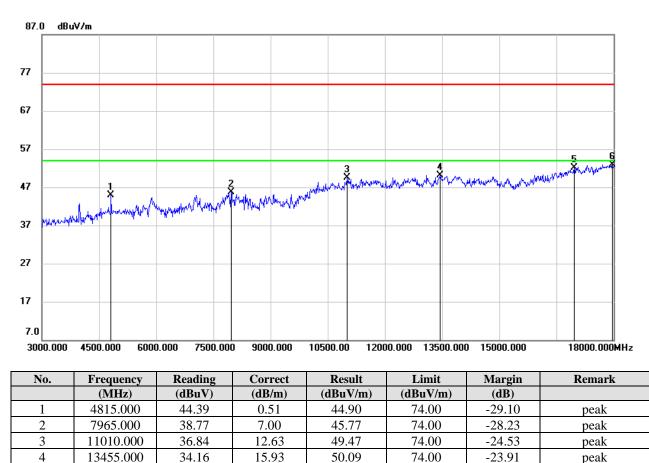
5. For the transmitting duration, please refer to clause 7.1.



8.2. SPURIOUS EMISSIONS (3~18GHz)

8.2.1. 802.11b MODE

HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, HORIZONTAL)



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

31.81

29.51

20.25

23.42

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

52.06

52.93

74.00

74.00

-21.94

-21.07

peak

peak

3. Peak: Peak detector.

16965.000

17970.000

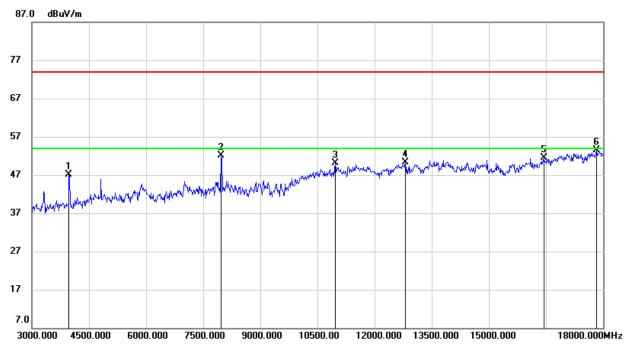
5

6

4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.







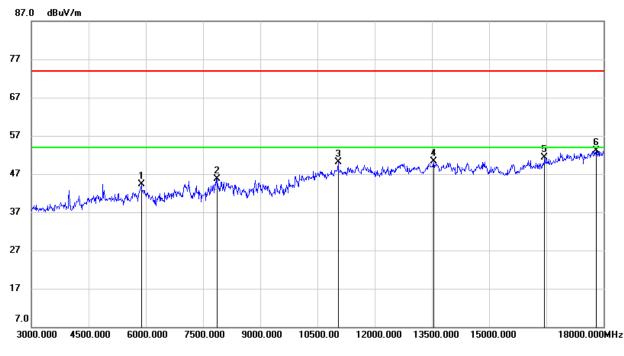
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB / m)	(dBuV/m)	(dBuV/m)	(dB)	
1	3975.000	49.97	-2.90	47.07	74.00	-26.93	peak
2	7965.000	45.12	7.00	52.12	74.00	-21.88	peak
3	10965.000	37.72	12.32	50.04	74.00	-23.96	peak
4	12810.000	34.73	15.59	50.32	74.00	-23.68	peak
5	16440.000	32.66	18.94	51.60	74.00	-22.40	peak
6	17835.000	30.13	23.31	53.44	74.00	-20.56	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.





No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB / m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5880.000	39.77	4.59	44.36	74.00	-29.64	peak
2	7875.000	38.30	7.40	45.70	74.00	-28.30	peak
3	11040.000	37.47	12.61	50.08	74.00	-23.92	peak
4	13545.000	34.39	15.89	50.28	74.00	-23.72	peak
5	16455.000	32.36	19.00	51.36	74.00	-22.64	peak
6	17805.000	29.87	23.31	53.18	74.00	-20.82	peak

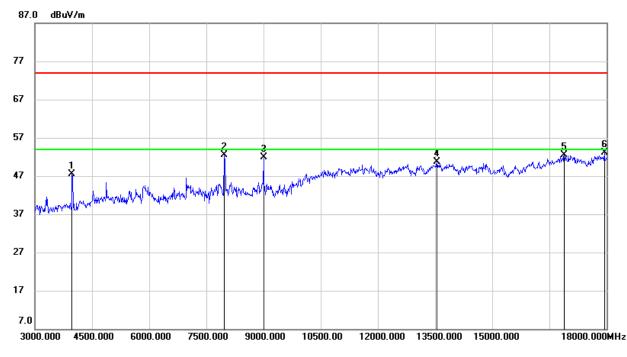
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

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.







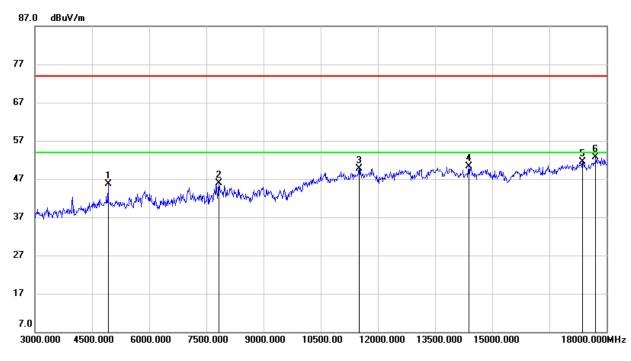
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB / m)	(dBuV/m)	(dBuV/m)	(dB)	
1	3975.000	50.42	-2.90	47.52	74.00	-26.48	peak
2	7965.000	45.59	7.00	52.59	74.00	-21.41	peak
3	9000.000	42.67	9.28	51.95	74.00	-22.05	peak
4	13545.000	34.90	15.89	50.79	74.00	-23.21	peak
5	16890.000	32.46	19.97	52.43	74.00	-21.57	peak
6	17940.000	29.66	23.39	53.05	74.00	-20.95	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 High Pass Filter losses.





No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB / m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4920.000	44.71	0.96	45.67	74.00	-28.33	peak
2	7830.000	38.10	7.72	45.82	74.00	-28.18	peak
3	11505.000	36.38	13.42	49.80	74.00	-24.20	peak
4	14385.000	33.98	16.33	50.31	74.00	-23.69	peak
5	17370.000	30.04	21.52	51.56	74.00	-22.44	peak
6	17715.000	30.12	22.56	52.68	74.00	-21.32	peak

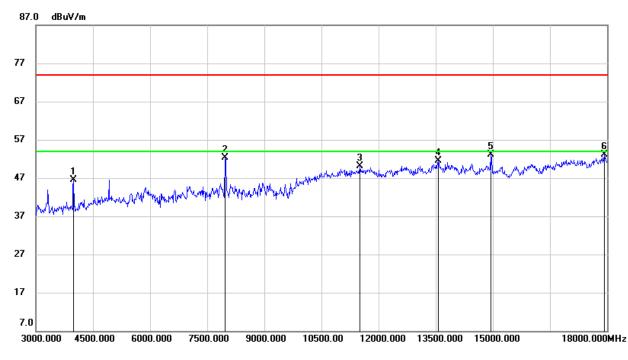
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Peak: Peak detector.

4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.







No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB / m)	(dBuV/m)	(dBuV/m)	(dB)	
1	3990.000	49.38	-2.89	46.49	74.00	-27.51	peak
2	7965.000	45.35	7.00	52.35	74.00	-21.65	peak
3	11505.000	36.64	13.42	50.06	74.00	-23.94	peak
4	13575.000	35.48	15.97	51.45	74.00	-22.55	peak
5	14940.000	37.03	16.00	53.03	74.00	-20.97	peak
6	17925.000	29.69	23.37	53.06	74.00	-20.94	peak

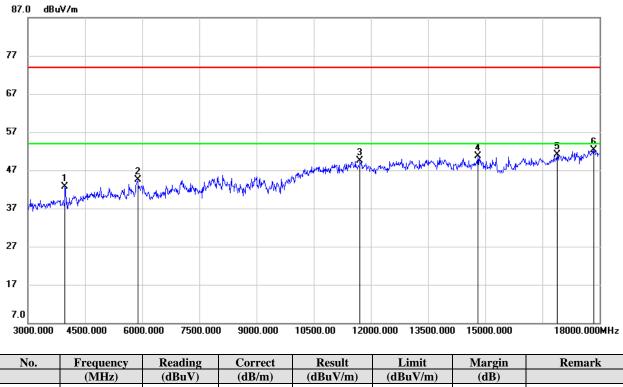
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Peak: Peak detector.

4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.



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	3975.000	45.51	-2.90	42.61	74.00	-31.39	peak
2	5880.000	39.88	4.59	44.47	74.00	-29.53	peak
3	11715.000	36.42	12.99	49.41	74.00	-24.59	peak
4	14805.000	34.72	15.92	50.64	74.00	-23.36	peak
5	16890.000	31.12	19.97	51.09	74.00	-22.91	peak
6	17850.000	28.97	23.32	52.29	74.00	-21.71	peak

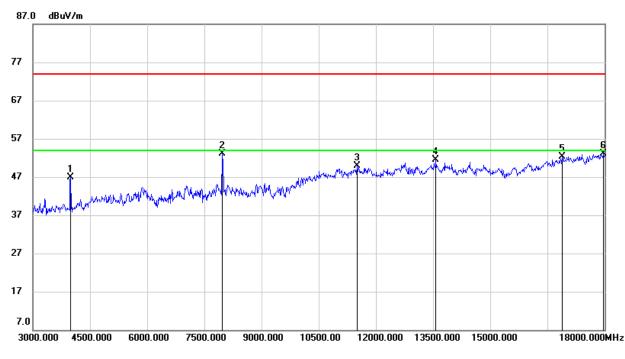
Note: 1. Measurement = Reading Level + Correct Factor.

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

3. Peak: Peak detector.

4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.





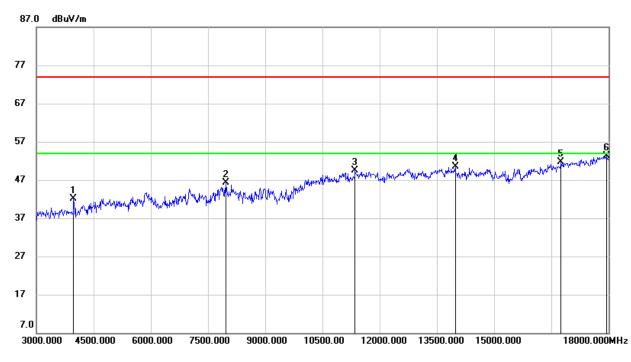
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	3990.000	49.73	-2.89	46.84	74.00	-27.16	peak
2	7965.000	46.08	7.00	53.08	74.00	-20.92	peak
3	11505.000	36.52	13.42	49.94	74.00	-24.06	peak
4	13575.000	35.58	15.97	51.55	74.00	-22.45	peak
5	16890.000	32.37	19.97	52.34	74.00	-21.66	peak
6	17970.000	29.75	23.42	53.17	74.00	-20.83	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.





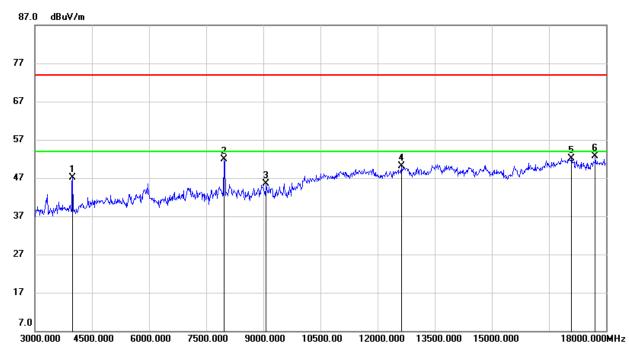
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB / m)	(dBuV/m)	(dBuV/m)	(dB)	
1	3975.000	44.96	-2.90	42.06	74.00	-31.94	peak
2	7965.000	39.31	7.00	46.31	74.00	-27.69	peak
3	11355.000	37.01	12.48	49.49	74.00	-24.51	peak
4	13980.000	34.46	16.07	50.53	74.00	-23.47	peak
5	16755.000	31.78	19.94	51.72	74.00	-22.28	peak
6	17940.000	29.84	23.39	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. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.





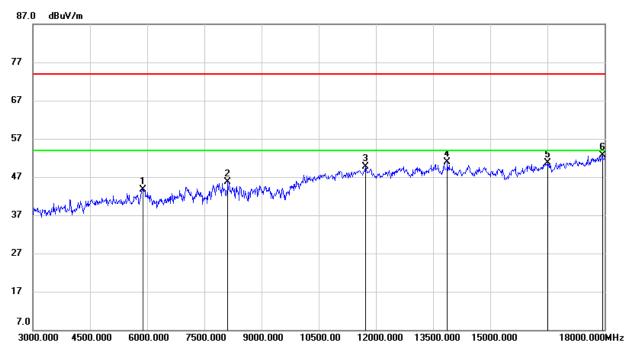
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB / m)	(dBuV/m)	(dBuV/m)	(dB)	
1	3990.000	50.08	-2.89	47.19	74.00	-26.81	peak
2	7965.000	44.84	7.00	51.84	74.00	-22.16	peak
3	9075.000	36.25	9.28	45.53	74.00	-28.47	peak
4	12630.000	35.95	14.08	50.03	74.00	-23.97	peak
5	17085.000	31.59	20.60	52.19	74.00	-21.81	peak
6	17715.000	30.13	22.56	52.69	74.00	-21.31	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.





No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB / m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5880.000	39.20	4.59	43.79	74.00	-30.21	peak
2	8115.000	37.75	7.90	45.65	74.00	-28.35	peak
3	11730.000	36.59	13.02	49.61	74.00	-24.39	peak
4	13875.000	34.46	16.44	50.90	74.00	-23.10	peak
5	16500.000	31.53	19.19	50.72	74.00	-23.28	peak
6	17940.000	29.35	23.39	52.74	74.00	-21.26	peak

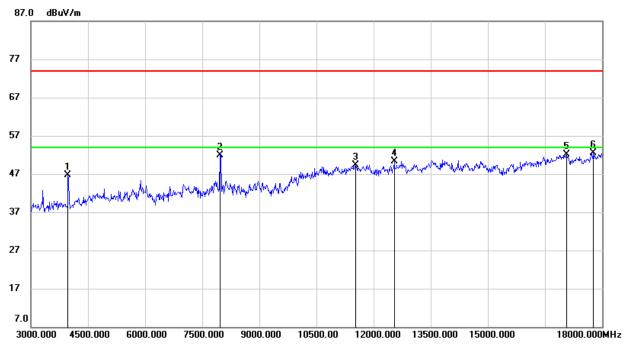
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Peak: Peak detector.

4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.







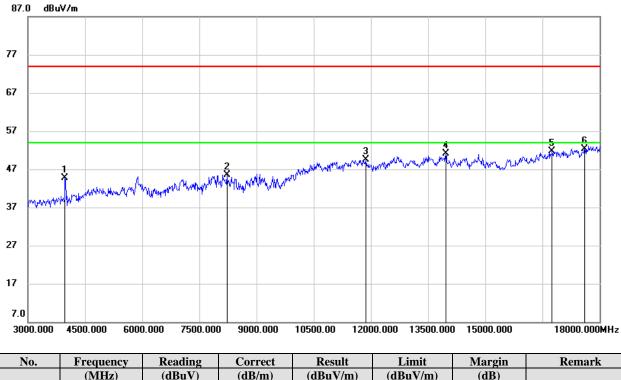
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB / m)	(dBuV/m)	(dBuV/m)	(dB)	
1	3975.000	49.63	-2.90	46.73	74.00	-27.27	peak
2	7965.000	44.96	7.00	51.96	74.00	-22.04	peak
3	11520.000	35.83	13.38	49.21	74.00	-24.79	peak
4	12540.000	35.96	14.33	50.29	74.00	-23.71	peak
5	17070.000	31.50	20.57	52.07	74.00	-21.93	peak
6	17775.000	29.34	23.09	52.43	74.00	-21.57	peak

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

3. Peak: Peak detector.

4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.

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	3975.000	47.53	-2.90	44.63	74.00	-29.37	peak
2	8220.000	37.25	8.22	45.47	74.00	-28.53	peak
3	11865.000	36.24	13.21	49.45	74.00	-24.55	peak
4	13965.000	35.10	16.09	51.19	74.00	-22.81	peak
5	16755.000	31.82	19.94	51.76	74.00	-22.24	peak
6	17610.000	30.53	21.86	52.39	74.00	-21.61	peak

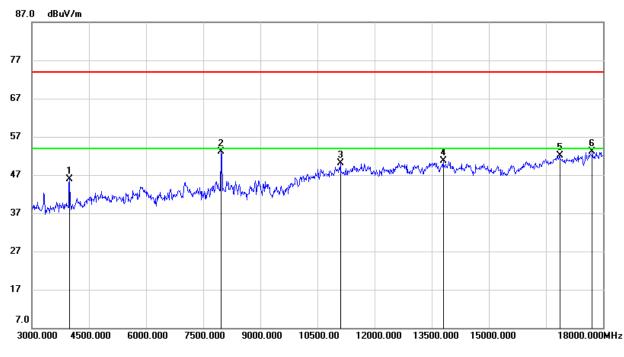
Note: 1. Measurement = Reading Level + Correct Factor.

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

3. Peak: Peak detector.

4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.





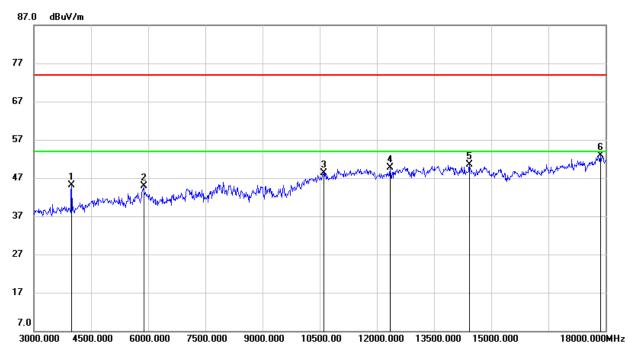
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	3990.000	48.84	-2.89	45.95	74.00	-28.05	peak
2	7965.000	46.18	7.00	53.18	74.00	-20.82	peak
3	11100.000	37.48	12.56	50.04	74.00	-23.96	peak
4	13800.000	33.53	17.10	50.63	74.00	-23.37	peak
5	16860.000	32.25	19.95	52.20	74.00	-21.80	peak
6	17715.000	30.52	22.56	53.08	74.00	-20.92	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.





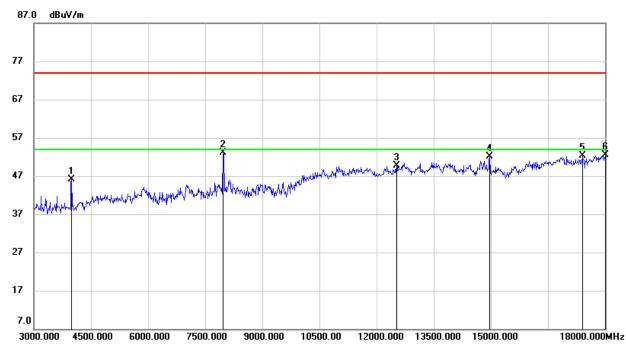
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB / m)	(dBuV/m)	(dBuV/m)	(dB)	
1	3990.000	48.05	-2.89	45.16	74.00	-28.84	peak
2	5880.000	40.31	4.59	44.90	74.00	-29.10	peak
3	10605.000	36.38	11.93	48.31	74.00	-25.69	peak
4	12345.000	35.69	14.05	49.74	74.00	-24.26	peak
5	14430.000	34.12	16.35	50.47	74.00	-23.53	peak
6	17865.000	29.67	23.33	53.00	74.00	-21.00	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.





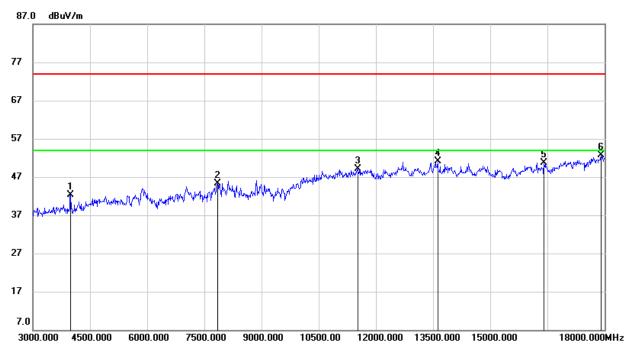
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB / m)	(dBuV/m)	(dBuV/m)	(dB)	
1	3990.000	48.98	-2.89	46.09	74.00	-27.91	peak
2	7965.000	46.04	7.00	53.04	74.00	-20.96	peak
3	12525.000	35.30	14.41	49.71	74.00	-24.29	peak
4	14970.000	36.18	15.98	52.16	74.00	-21.84	peak
5	17400.000	30.86	21.41	52.27	74.00	-21.73	peak
6	18000.000	29.14	23.46	52.60	74.00	-21.40	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.





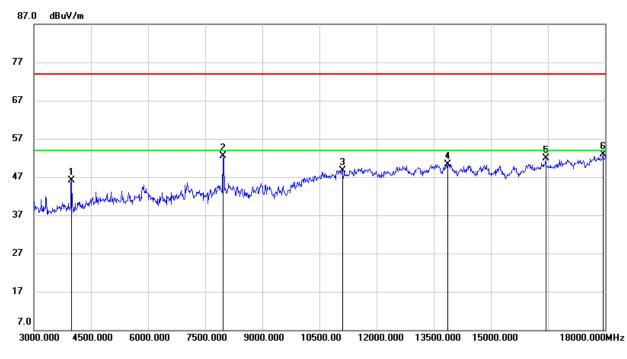
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB / m)	(dBuV/m)	(dBuV/m)	(dB)	
1	3990.000	45.23	-2.89	42.34	74.00	-31.66	peak
2	7845.000	37.75	7.62	45.37	74.00	-28.63	peak
3	11520.000	35.67	13.38	49.05	74.00	-24.95	peak
4	13620.000	35.04	15.99	51.03	74.00	-22.97	peak
5	16410.000	31.84	18.82	50.66	74.00	-23.34	peak
6	17910.000	29.37	23.35	52.72	74.00	-21.28	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 High Pass Filter losses.





No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	3990.000	49.02	-2.89	46.13	74.00	-27.87	peak
2	7965.000	45.54	7.00	52.54	74.00	-21.46	peak
3	11100.000	36.10	12.56	48.66	74.00	-25.34	peak
4	13875.000	33.91	16.44	50.35	74.00	-23.65	peak
5	16440.000	32.96	18.94	51.90	74.00	-22.10	peak
6	17940.000	29.50	23.39	52.89	74.00	-21.11	peak

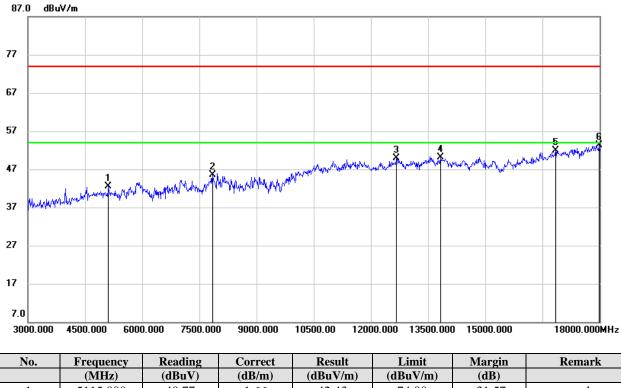
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

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.



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	5115.000	40.77	1.66	42.43	74.00	-31.57	peak
2	7845.000	37.81	7.62	45.43	74.00	-28.57	peak
3	12675.000	35.78	14.21	49.99	74.00	-24.01	peak
4	13830.000	33.21	16.84	50.05	74.00	-23.95	peak
5	16845.000	31.88	19.96	51.84	74.00	-22.16	peak
6	17985.000	29.90	23.44	53.34	74.00	-20.66	peak

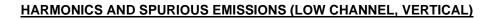
Note: 1. Measurement = Reading Level + Correct Factor.

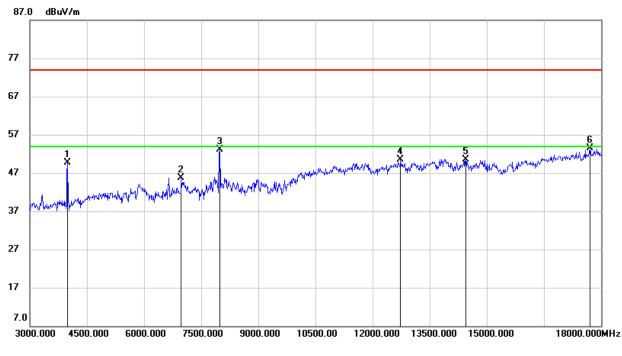
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Peak: Peak detector.

4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.







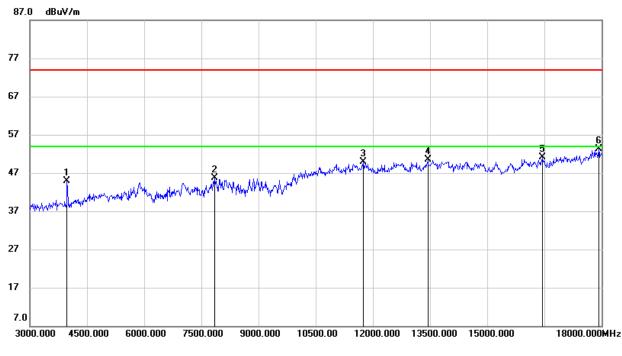
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB / m)	(dBuV/m)	(dBuV/m)	(dB)	
1	3990.000	52.64	-2.89	49.75	74.00	-24.25	peak
2	6975.000	39.97	5.79	45.76	74.00	-28.24	peak
3	7995.000	46.23	6.89	53.12	74.00	-20.88	peak
4	12735.000	35.79	14.77	50.56	74.00	-23.44	peak
5	14445.000	34.11	16.36	50.47	74.00	-23.53	peak
6	17700.000	31.01	22.43	53.44	74.00	-20.56	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.





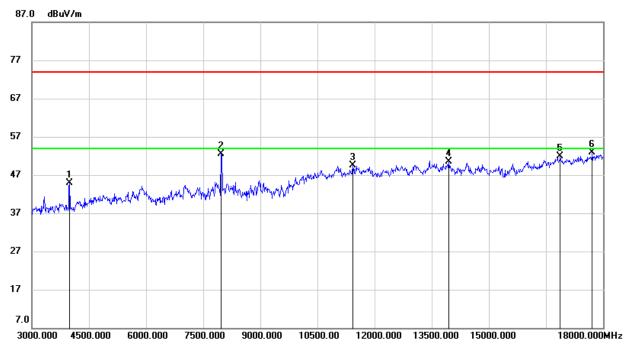
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB / m)	(dBuV/m)	(dBuV/m)	(dB)	
1	3975.000	47.88	-2.90	44.98	74.00	-29.02	peak
2	7845.000	38.04	7.62	45.66	74.00	-28.34	peak
3	11745.000	36.77	13.05	49.82	74.00	-24.18	peak
4	13440.000	34.55	15.98	50.53	74.00	-23.47	peak
5	16455.000	32.03	19.00	51.03	74.00	-22.97	peak
6	17925.000	29.97	23.37	53.34	74.00	-20.66	peak

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

3. Peak: Peak detector.

4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.





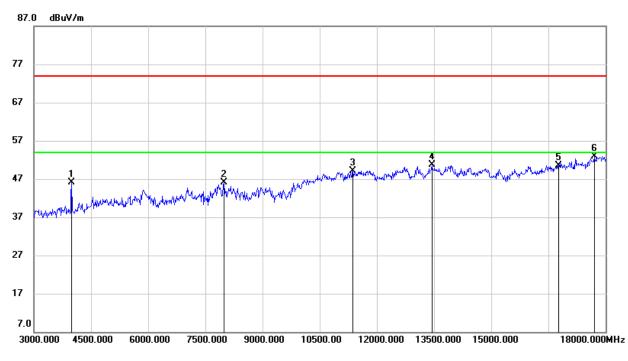
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB / m)	(dBuV/m)	(dBuV/m)	(dB)	
1	3990.000	47.87	-2.89	44.98	74.00	-29.02	peak
2	7965.000	45.53	7.00	52.53	74.00	-21.47	peak
3	11430.000	36.68	12.85	49.53	74.00	-24.47	peak
4	13950.000	34.41	16.11	50.52	74.00	-23.48	peak
5	16875.000	31.93	19.96	51.89	74.00	-22.11	peak
6	17715.000	30.40	22.56	52.96	74.00	-21.04	peak

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

3. Peak: Peak detector.

4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.





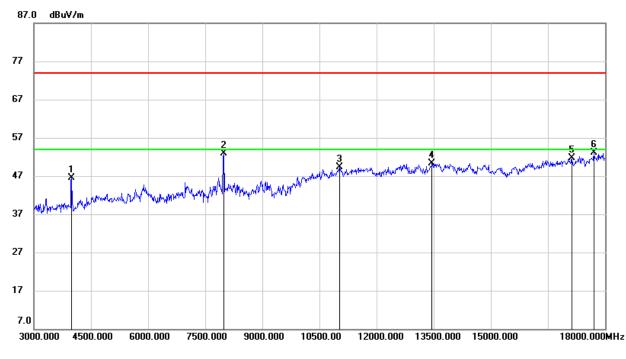
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB / m)	(dBuV/m)	(dBuV/m)	(dB)	
1	3990.000	48.94	-2.89	46.05	74.00	-27.95	peak
2	7995.000	39.14	6.89	46.03	74.00	-27.97	peak
3	11370.000	36.50	12.54	49.04	74.00	-24.96	peak
4	13440.000	34.66	15.98	50.64	74.00	-23.36	peak
5	16770.000	30.64	19.95	50.59	74.00	-23.41	peak
6	17700.000	30.40	22.43	52.83	74.00	-21.17	peak

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

3. Peak: Peak detector.

4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.





No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	3990.000	49.34	-2.89	46.45	74.00	-27.55	peak
2	7995.000	46.02	6.89	52.91	74.00	-21.09	peak
3	11025.000	36.68	12.61	49.29	74.00	-24.71	peak
4	13455.000	34.41	15.93	50.34	74.00	-23.66	peak
5	17130.000	30.98	20.72	51.70	74.00	-22.30	peak
6	17700.000	30.59	22.43	53.02	74.00	-20.98	peak

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

3. Peak: Peak detector.

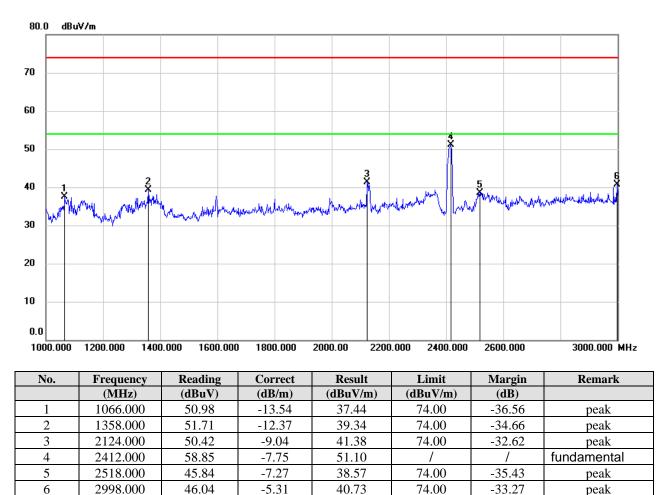
4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.



8.3. SPURIOUS EMISSIONS (1~3GHz)

8.3.1. 802.11b MODE

HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, HORIZONTAL)



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

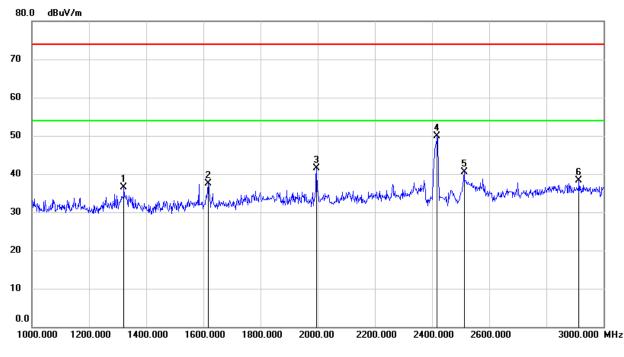
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Peak: Peak detector.

4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band Reject Filter losses.







No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1322.000	48.80	-12.35	36.45	74.00	-37.55	peak
2	1616.000	48.85	-11.32	37.53	74.00	-36.47	peak
3	1996.000	51.27	-9.83	41.44	74.00	-32.56	peak
4	2412.000	57.66	-7.74	49.92	/	/	fundamental
5	2512.000	47.81	-7.23	40.58	74.00	-33.42	peak
6	2914.000	43.72	-5.50	38.22	74.00	-35.78	peak

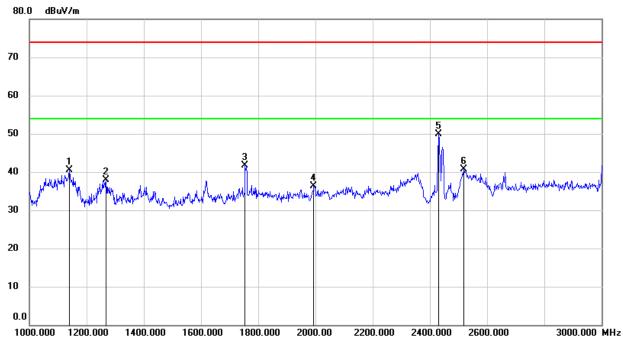
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Peak: Peak detector.

4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band Reject Filter losses.







No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB / m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1140.000	53.63	-13.19	40.44	74.00	-33.56	peak
2	1268.000	50.38	-12.45	37.93	74.00	-36.07	peak
3	1754.000	52.12	-10.37	41.75	74.00	-32.25	peak
4	1994.000	46.15	-9.83	36.32	74.00	-37.68	peak
5	2437.000	57.54	-7.65	49.89	/	/	fundamental
6	2518.000	47.94	-7.27	40.67	74.00	-33.33	peak

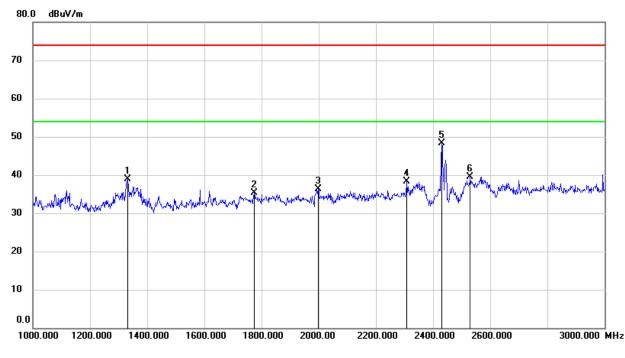
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

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.







No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1332.000	51.34	-12.35	38.99	74.00	-35.01	peak
2	1774.000	45.38	-10.17	35.21	74.00	-38.79	peak
3	1998.000	46.19	-9.83	36.36	74.00	-37.64	peak
4	2308.000	46.39	-8.17	38.22	74.00	-35.78	peak
5	2437.000	55.96	-7.65	48.31	/	/	fundamental
6	2530.000	46.87	-7.32	39.55	74.00	-34.45	peak

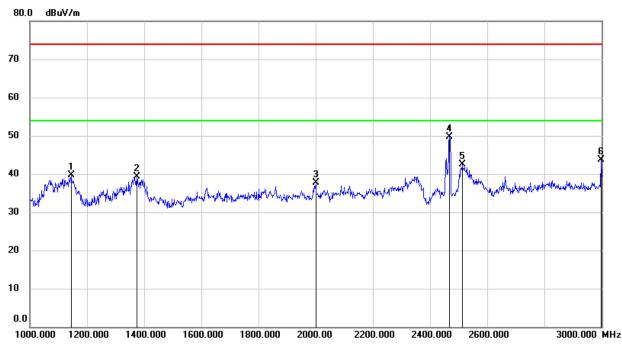
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Peak: Peak detector.

4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band Reject Filter losses.







No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB / m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1144.000	52.90	-13.15	39.75	74.00	-34.25	peak
2	1374.000	51.64	-12.38	39.26	74.00	-34.74	peak
3	2000.000	47.62	-9.82	37.80	74.00	-36.20	peak
4	2462.000	57.06	-7.39	49.67	/	/	fundamental
5	2512.000	49.66	-7.23	42.43	74.00	-31.57	peak
6	2998.000	49.04	-5.31	43.73	74.00	-30.27	peak

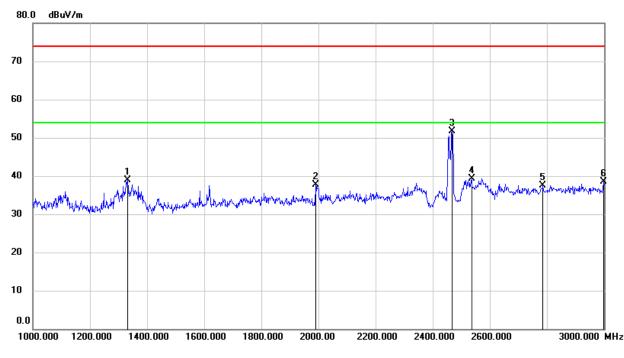
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

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.







No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB / m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1332.000	51.21	-12.35	38.86	74.00	-35.14	peak
2	1990.000	47.58	-9.84	37.74	74.00	-36.26	peak
3	2462.000	59.10	-7.39	51.71	/	/	fundamental
4	2536.000	46.73	-7.36	39.37	74.00	-34.63	peak
5	2786.000	43.79	-6.20	37.59	74.00	-36.41	peak
6	2998.000	43.88	-5.31	38.57	74.00	-35.43	peak

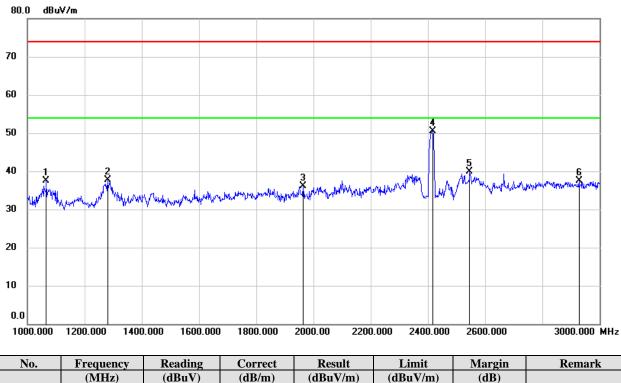
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Peak: Peak detector.

4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band Reject Filter losses.



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	1066.000	51.11	-13.54	37.57	74.00	-36.43	peak
2	1280.000	50.06	-12.41	37.65	74.00	-36.35	peak
3	1964.000	46.01	-9.87	36.14	74.00	-37.86	peak
4	2412.000	58.30	-7.75	50.55	/	/	fundamental
5	2546.000	47.38	-7.41	39.97	74.00	-34.03	peak
6	2928.000	42.87	-5.46	37.41	74.00	-36.59	peak

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

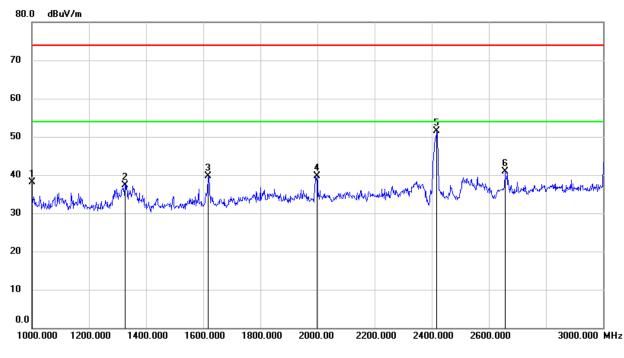
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Peak: Peak detector.

4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band Reject Filter losses.







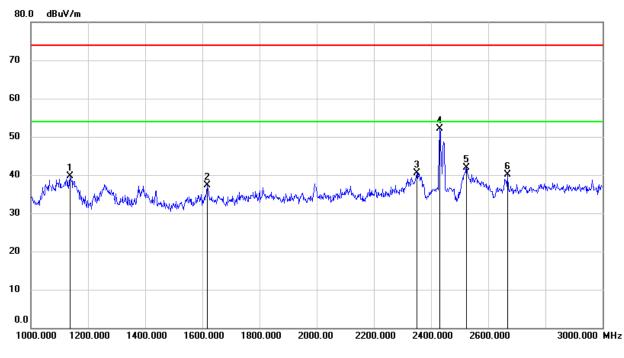
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB / m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1000.0000	51.63	-13.59	38.04	74.00	-35.96	peak
2	1326.000	49.69	-12.35	37.34	74.00	-36.66	peak
3	1616.000	50.98	-11.32	39.66	74.00	-34.34	peak
4	1998.000	49.57	-9.83	39.74	74.00	-34.26	peak
5	2412.000	59.19	-7.74	51.45	/	/	fundamental
6	2656.000	48.34	-7.38	40.96	74.00	-33.04	peak

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

3. Peak: Peak detector.

4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band Reject Filter losses.





No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1136.000	52.95	-13.22	39.73	74.00	-34.27	peak
2	1616.000	48.64	-11.32	37.32	74.00	-36.68	peak
3	2350.000	48.45	-8.02	40.43	74.00	-33.57	peak
4	2437.000	59.73	-7.65	52.08	/	/	fundamental
5	2524.000	49.15	-7.29	41.86	74.00	-32.14	peak
6	2668.000	47.43	-7.32	40.11	74.00	-33.89	peak

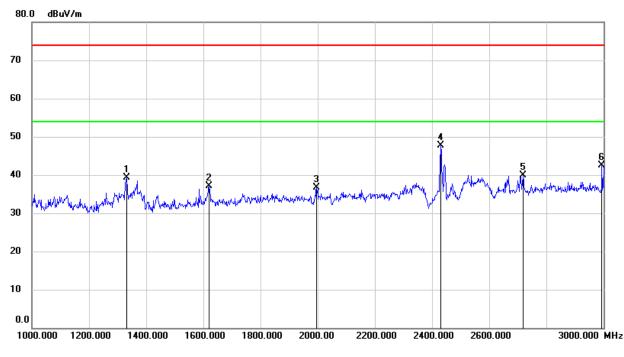
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

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.







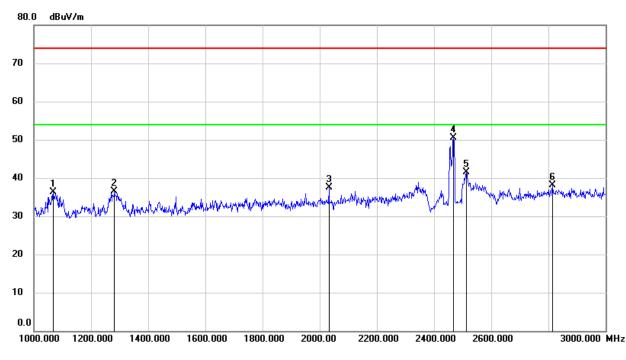
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1332.000	51.59	-12.35	39.24	74.00	-34.76	peak
2	1620.000	48.31	-11.29	37.02	74.00	-36.98	peak
3	1996.000	46.49	-9.83	36.66	74.00	-37.34	peak
4	2437.000	55.36	-7.65	47.71	/	/	fundamental
5	2718.000	46.90	-6.94	39.96	74.00	-34.04	peak
6	2994.000	47.76	-5.31	42.45	74.00	-31.55	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.





No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB / m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1068.000	49.77	-13.54	36.23	74.00	-37.77	peak
2	1282.000	48.91	-12.40	36.51	74.00	-37.49	peak
3	2032.000	47.09	-9.60	37.49	74.00	-36.51	peak
4	2462.000	57.99	-7.39	50.60	/	/	fundamental
5	2514.000	48.76	-7.24	41.52	74.00	-32.48	peak
6	2814.000	44.11	-5.98	38.13	74.00	-35.87	peak

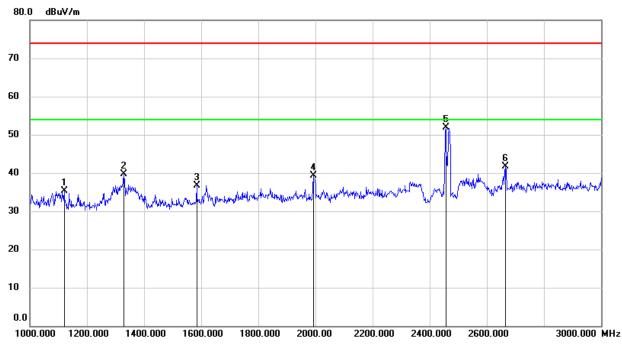
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

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.







No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1120.000	48.58	-13.34	35.24	74.00	-38.76	peak
2	1328.000	51.98	-12.36	39.62	74.00	-34.38	peak
3	1584.000	48.20	-11.53	36.67	74.00	-37.33	peak
4	1992.000	49.11	-9.83	39.28	74.00	-34.72	peak
5	2462.000	59.46	-7.47	51.99	/	/	fundamental
6	2664.000	49.02	-7.34	41.68	74.00	-32.32	peak

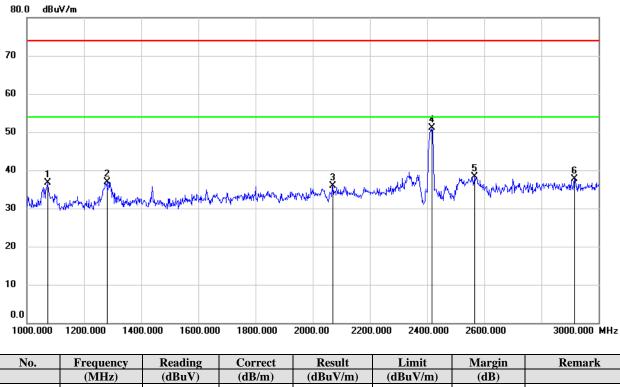
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Peak: Peak detector.

4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band Reject Filter losses.



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	1074.000	50.27	-13.54	36.73	74.00	-37.27	peak
2	1280.000	49.36	-12.41	36.95	74.00	-37.05	peak
3	2070.000	45.22	-9.35	35.87	74.00	-38.13	peak
4	2412.000	58.76	-7.75	51.01	/	/	fundamental
5	2566.000	45.91	-7.52	38.39	74.00	-35.61	peak
6	2916.000	43.27	-5.48	37.79	74.00	-36.21	peak

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

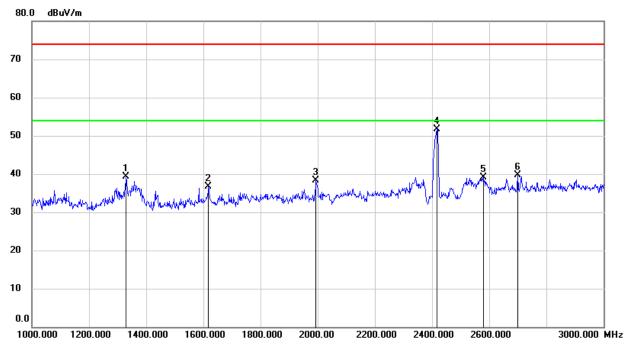
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Peak: Peak detector.

4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band Reject Filter losses.







No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1330.000	51.65	-12.36	39.29	74.00	-34.71	peak
2	1618.000	48.04	-11.31	36.73	74.00	-37.27	peak
3	1994.000	48.11	-9.83	38.28	74.00	-35.72	peak
4	2412.000	59.39	-7.74	51.65	/	/	fundamental
5	2580.000	46.60	-7.59	39.01	74.00	-34.99	peak
6	2700.000	46.92	-7.13	39.79	74.00	-34.21	peak

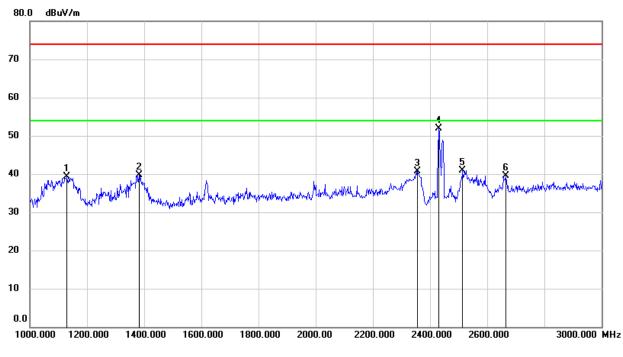
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

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.







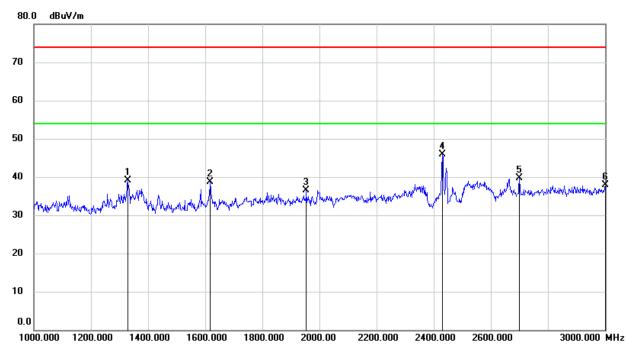
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1130.000	52.53	-13.27	39.26	74.00	-34.74	peak
2	1382.000	52.13	-12.37	39.76	74.00	-34.24	peak
3	2356.000	48.76	-8.00	40.76	74.00	-33.24	peak
4	2437.000	59.48	-7.65	51.83	/	/	fundamental
5	2514.000	48.24	-7.24	41.00	74.00	-33.00	peak
6	2664.000	46.84	-7.34	39.50	74.00	-34.50	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.





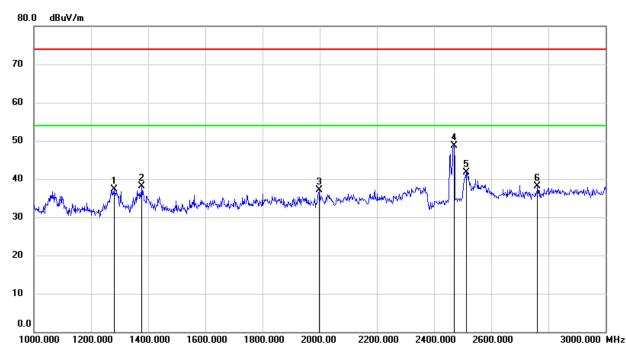
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1328.000	51.46	-12.36	39.10	74.00	-34.90	peak
2	1618.000	50.06	-11.31	38.75	74.00	-35.25	peak
3	1954.000	46.47	-9.87	36.60	74.00	-37.40	peak
4	2437.000	53.63	-7.65	45.98	/	/	fundamental
5	2700.000	46.91	-7.13	39.78	74.00	-34.22	peak
6	3000.000	43.16	-5.30	37.86	74.00	-36.14	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.





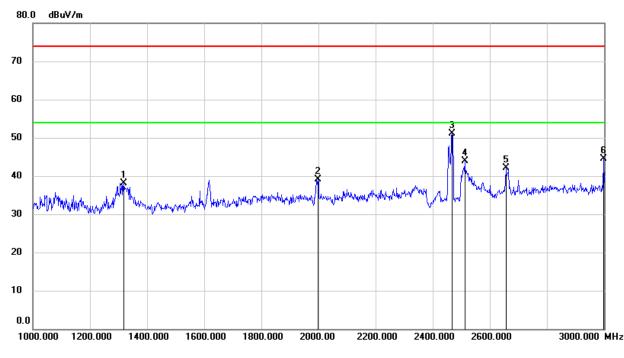
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1280.000	49.65	-12.41	37.24	74.00	-36.76	peak
2	1376.000	50.47	-12.37	38.10	74.00	-35.90	peak
3	1998.000	46.87	-9.83	37.04	74.00	-36.96	peak
4	2462.000	55.99	-7.37	48.62	/	/	fundamental
5	2512.000	49.00	-7.23	41.77	74.00	-32.23	peak
6	2762.000	44.63	-6.47	38.16	74.00	-35.84	peak

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

3. Peak: Peak detector.

4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band Reject Filter losses.





No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1318.000	50.55	-12.36	38.19	74.00	-35.81	peak
2	1998.000	48.84	-9.83	39.01	74.00	-34.99	peak
3	2462.000	58.52	-7.39	51.13	/	/	fundamental
4	2512.000	51.16	-7.23	43.93	74.00	-30.07	peak
5	2656.000	49.54	-7.38	42.16	74.00	-31.84	peak
6	2998.000	49.73	-5.31	44.42	74.00	-29.58	peak

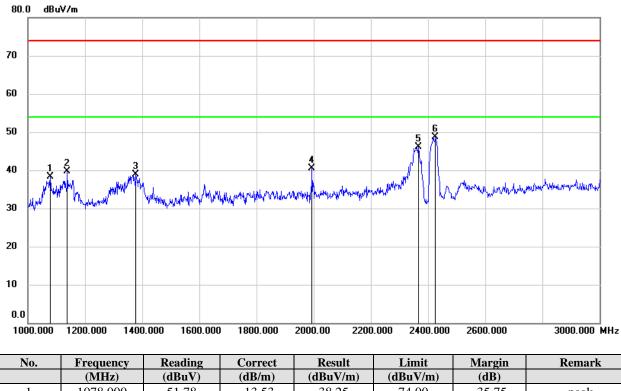
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Peak: Peak detector.

4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band Reject Filter losses.



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	1078.000	51.78	-13.53	38.25	74.00	-35.75	peak
2	1138.000	52.90	-13.19	39.71	74.00	-34.29	peak
3	1378.000	51.20	-12.38	38.82	74.00	-35.18	peak
4	1994.000	50.39	-9.83	40.56	74.00	-33.44	peak
5	2366.000	54.00	-7.97	46.03	74.00	-27.97	peak
6	2422.000	56.31	-7.67	48.64	/	/	fundamental

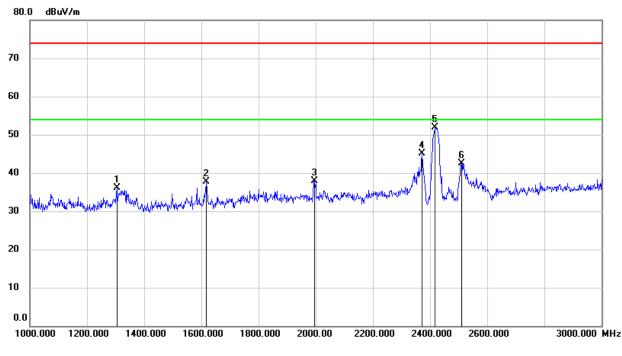
Note: 1. Measurement = Reading Level + Correct Factor.

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

3. Peak: Peak detector.

4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band Reject Filter losses.





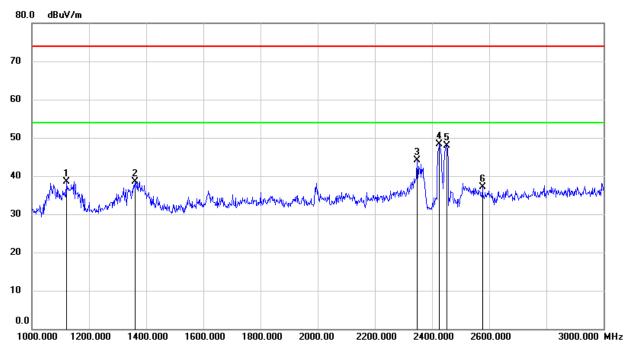
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB / m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1304.000	48.37	-12.34	36.03	74.00	-37.97	peak
2	1616.000	49.09	-11.32	37.77	74.00	-36.23	peak
3	1996.000	47.81	-9.83	37.98	74.00	-36.02	peak
4	2372.000	52.98	-7.95	45.03	74.00	-28.97	peak
5	2422.000	59.64	-7.74	51.90	/	/	fundamental
6	2510.000	49.75	-7.21	42.54	74.00	-31.46	peak

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

3. Peak: Peak detector.

4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band Reject Filter losses.





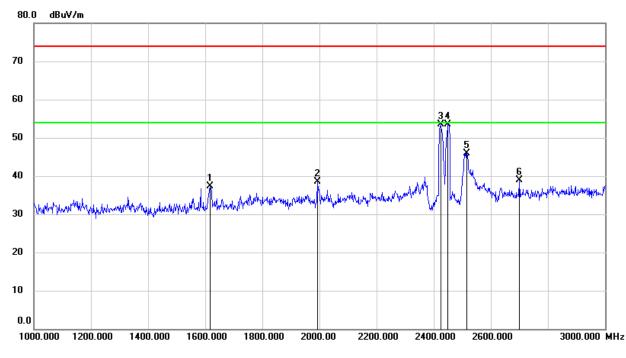
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB / m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1120.000	51.79	-13.34	38.45	74.00	-35.55	peak
2	1362.000	50.95	-12.37	38.58	74.00	-35.42	peak
3	2348.000	52.23	-8.03	44.20	74.00	-29.80	peak
4	2437.000	55.99	-7.67	48.32	/	/	fundamental
5	2456.210	55.47	-7.50	47.97	74.00	-26.03	peak
6	2576.000	44.75	-7.57	37.18	74.00	-36.82	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.





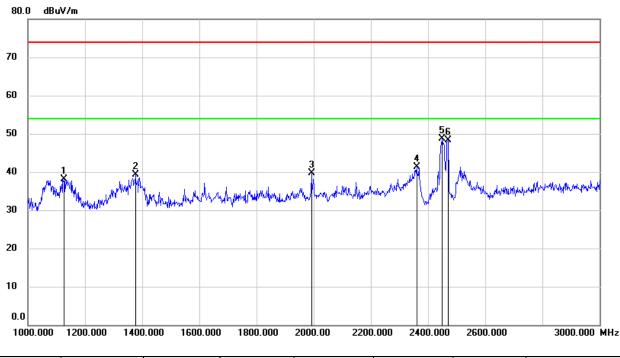
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB / m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1616.000	48.71	-11.32	37.39	74.00	-36.61	peak
2	1992.000	48.31	-9.83	38.48	74.00	-35.52	peak
3	2437.000	61.16	-7.70	53.46	/	/	fundamental
4	2456.145	60.98	-7.51	53.47	74.00	-20.53	peak
5	2516.000	53.10	-7.25	45.85	74.00	-28.15	peak
6	2700.000	45.96	-7.13	38.83	74.00	-35.17	peak

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

3. Peak: Peak detector.

4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band Reject Filter losses.





No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB / m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1126.000	51.37	-13.29	38.08	74.00	-35.92	peak
2	1376.000	51.66	-12.37	39.29	74.00	-34.71	peak
3	1992.000	49.50	-9.83	39.67	74.00	-34.33	peak
4	2360.000	49.21	-7.99	41.22	74.00	-32.78	peak
5	2452.000	56.28	-7.52	48.76	/	/	fundamental
6	2470.000	55.61	-7.37	48.24	74.00	-25.76	peak

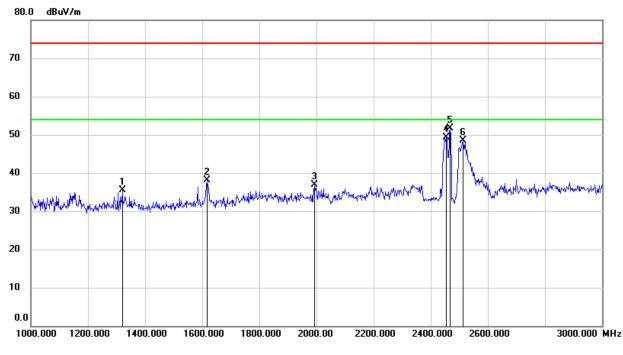
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Peak: Peak detector.

4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band Reject Filter losses.





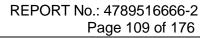


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1320.000	47.86	-12.35	35.51	74.00	-38.49	peak
2	1616.000	49.52	-11.32	38.20	74.00	-35.80	peak
3	1994.000	46.64	-9.83	36.81	74.00	-37.19	peak
4	2452.000	56.86	-7.48	49.38	/	/	fundamental
5	2468.000	59.04	-7.39	51.65	74.00	-22.35	peak
6	2512.000	55.69	-7.23	48.46	74.00	-25.54	peak

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

3. Peak: Peak detector.

4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band Reject Filter losses.

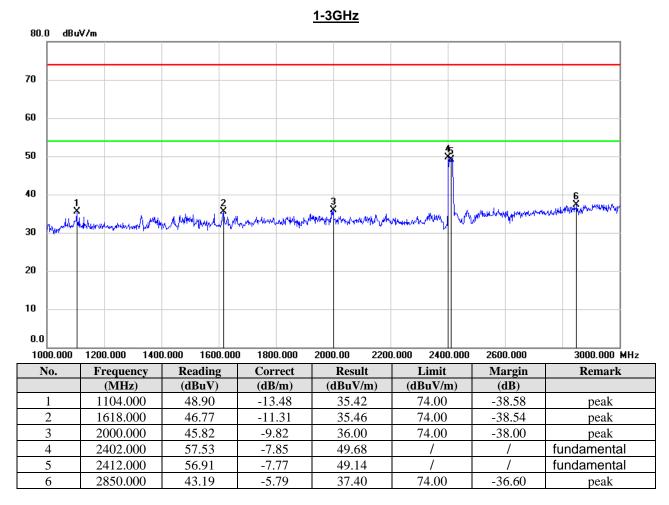




8.4. WORST-CASE CO-LOCATION

8.4.1. BLE MODE AND 802.11n HT20 MODE (TRANSMIT SIMULTANEOUSLY)

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



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

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

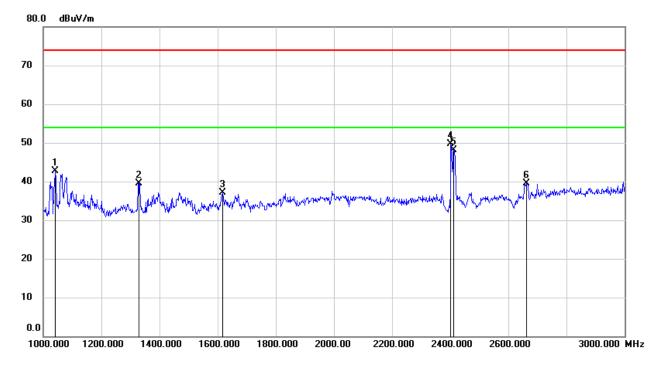
3. Peak: Peak detector.

4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band reject filter losses.



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

<u>1-3GHz</u>



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB / m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1042.000	56.23	-13.56	42.67	74.00	-31.33	peak
2	1330.000	51.86	-12.36	39.50	74.00	-34.50	peak
3	1618.000	48.37	-11.31	37.06	74.00	-36.94	peak
4	2402.000	57.62	-7.85	49.77	/	/	fundamental
5	2412.000	55.83	-7.77	48.06	/	/	fundamental
6	2662.000	46.86	-7.35	39.51	74.00	-34.49	peak

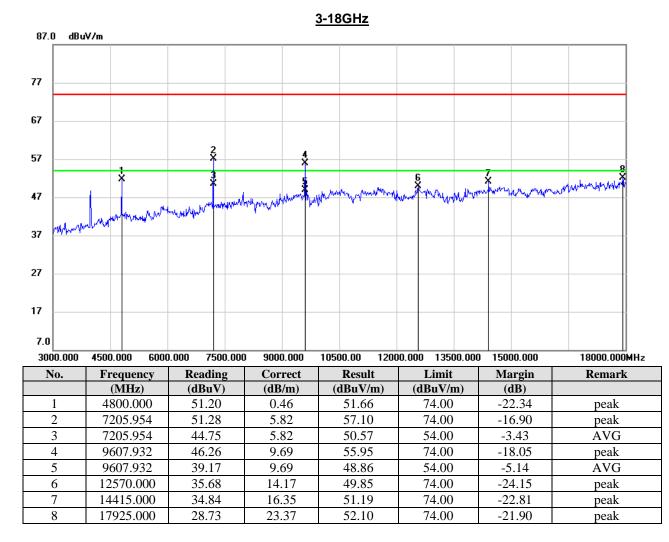
Note: 1. Peak Result = Reading Level + Correct Factor.

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

3. Peak: Peak detector.

4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band reject filter losses.

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



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

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

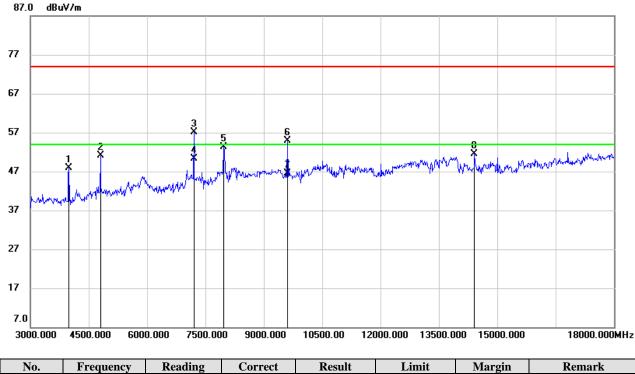
3. Peak: Peak detector.

4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for HPF losses.



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

<u>3-18GHz</u>



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB / m)	(dBuV/m)	(dBuV/m)	(dB)	
1	3990.000	50.88	-2.89	47.99	74.00	-26.01	peak
2	4800.000	50.59	0.46	51.05	74.00	-22.95	peak
3	7205.594	51.19	5.82	57.01	74.00	-16.99	peak
4	7205.954	44.51	5.82	50.33	54.00	-3.67	AVG
5	7965.000	46.31	7.00	53.31	74.00	-20.69	peak
6	9607.947	45.25	9.69	54.94	74.00	-19.06	peak
7	9607.947	36.90	9.69	46.59	54.00	-7.41	AVG
8	14415.000	35.25	16.35	51.60	74.00	-22.40	peak

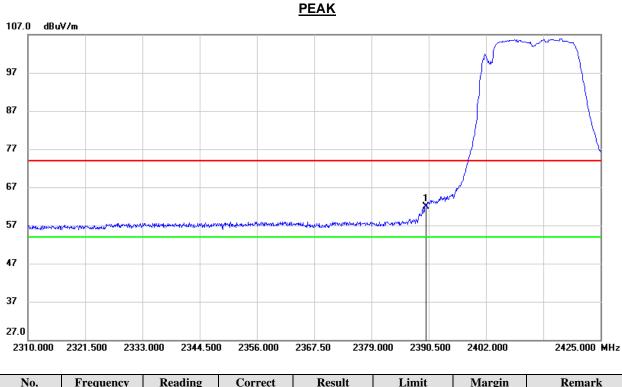
Note: 1. Peak Result = Reading Level + Correct Factor.

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

3. Peak: Peak detector.

4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for HPF losses.

RESTRICTED BANDEDGE (LOW CHANNEL, WORST-CASE CONFIGURATION, HORIZONTAL)



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB / m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2390.000	28.93	32.94	61.87	74.00	-12.13	peak

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

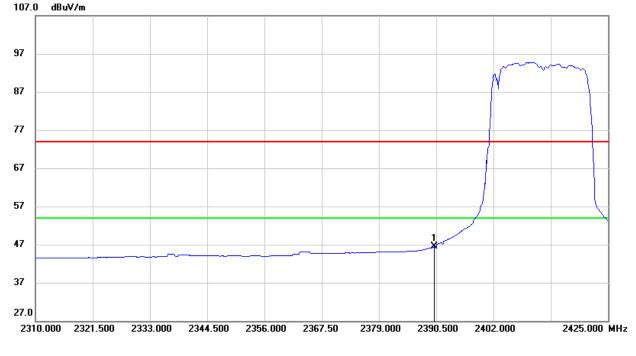
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Peak: Peak detector.

4. 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	13.49	32.94	46.43	54.00	-7.57	AVG

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

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

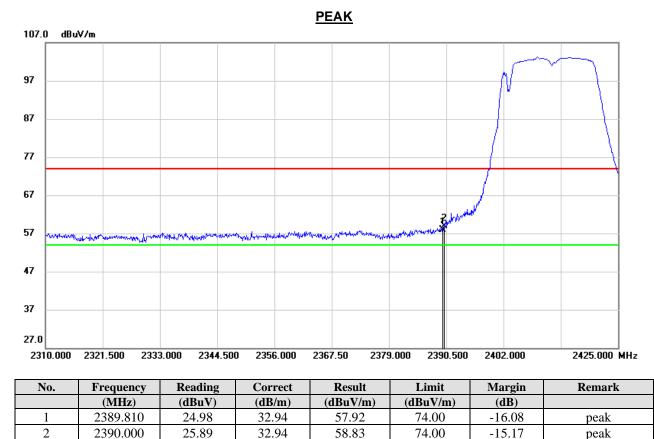
3. AVG: VBW=1/Ton where: ton is transmit duration.

4. For transmit duration, please refer to clause 7.1.

5. 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)



2	2390.000	25.89	32.94	58.85	74.00	-15.17	

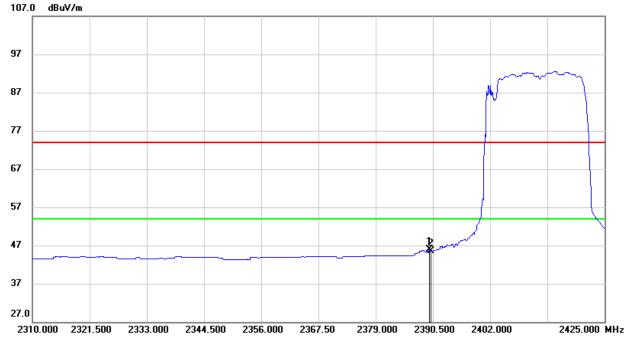
Note: 1. Measurement = Reading Level + Correct Factor.

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

3. Peak: Peak detector.

4. 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	2389.810	13.05	32.94	45.99	54.00	-8.01	AVG
2	2390.000	12.62	32.94	45.56	54.00	-8.44	AVG

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

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

3. AVG: VBW=1/Ton where: ton is transmit duration.

4. For transmit duration, please refer to clause 7.1.

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

Note: All the test modes and combination have been considered. Only the worst data record in the report.



8.5. SPURIOUS EMISSIONS (18~26GHz)

8.5.1. 802.11b MODE

86.9 dBuV/m 77 67 57 2 3 ţ 5 6 47 37 27 17 7 -3 -13 18000.000 18800.000 19600.000 20400.000 21200.000 22000.00 22800.000 23600.000 24400.000 26000.000MHz Reading Correct Limit Remark No. Frequency Result Margin (dBuV) (dB/m)(dBuV/m) (dBuV/m) (MHz) (**dB**) 1 18424.000 51.41 -4.38 47.03 74.00 -26.97 peak 2 20336.000 52.78 -4.91 47.87 74.00 -26.13 peak 3 21024.000 53.12 -5.30 47.82 74.00 -26.18 peak

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

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

51.54

48.27

47.73

23904.000

24824.000

25784.000

4

5

6

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

47.29

46.58

46.24

74.00

74.00

74.00

-26.71

-27.42

-27.76

peak

peak

peak

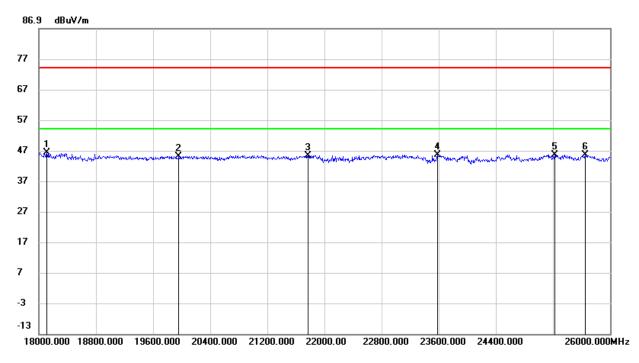
4. The preamplifier only effect to the above 18GHz signal and no filter added to the measurement chain.

-4.25

-1.69

-1.49





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	18112.000	50.35	-4.10	46.25	74.00	-27.75	peak
2	19960.000	49.52	-4.37	45.15	74.00	-28.85	peak
3	21768.000	51.17	-5.79	45.38	74.00	-28.62	peak
4	23584.000	50.15	-4.71	45.44	74.00	-28.56	peak
5	25224.000	46.65	-1.17	45.48	74.00	-28.52	peak
6	25648.000	47.12	-1.53	45.59	74.00	-28.41	peak

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

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

3. Peak: Peak detector.

4. The preamplifier only effect to the above 18GHz signal and no filter added to the measurement chain.

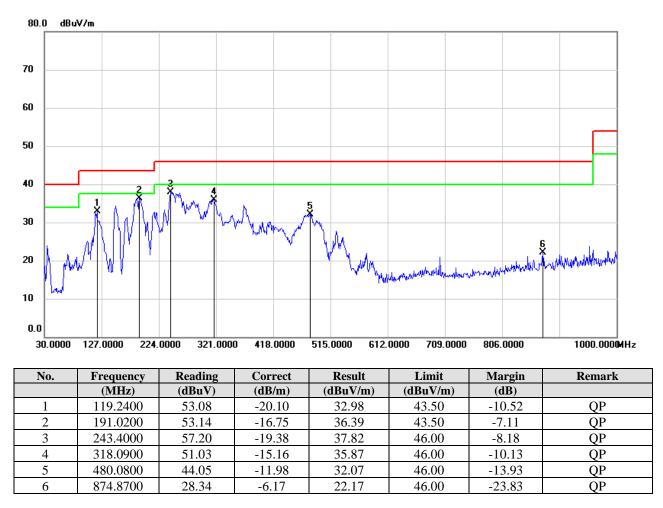
Note: All the test modes have been tested, only the worst data record in the report.



8.6. SPURIOUS EMISSIONS (0.03 ~ 1 GHz)

8.6.1. 802.11b MODE

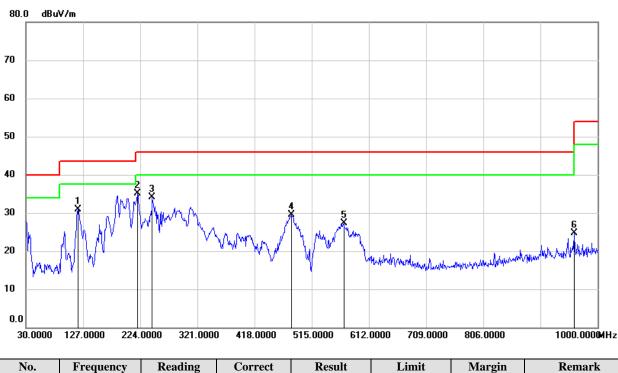
SPURIOUS EMISSIONS (LOW CHANNEL, WORST-CASE CONFIGURATION, HORIZONTAL)



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	118.2700	51.04	-20.15	30.89	43.50	-12.61	QP
2	219.1500	53.34	-18.32	35.02	46.00	-10.98	QP
3	244.3700	53.41	-19.39	34.02	46.00	-11.98	QP
4	480.0800	41.42	-11.98	29.44	46.00	-16.56	QP
5	569.3200	37.75	-10.39	27.36	46.00	-18.64	QP
6	960.2300	29.68	-5.02	24.66	54.00	-29.34	QP

Note: 1. Result Level = Read Level + Correct Factor. 2. Test setup: RBW: 120 kHz, VBW: 300 kHz, Sweep time: auto.

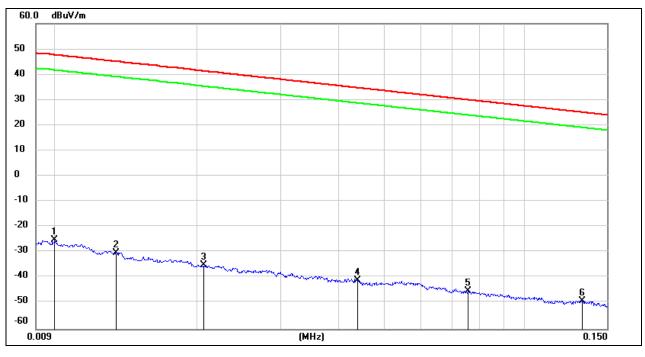
Note: All the test modes have been tested, only the worst data record in the report.



8.7. SPURIOUS EMISSIONS BELOW 30M

8.7.1. 802.11b MODE

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



<u>9kHz~ 150kHz</u>

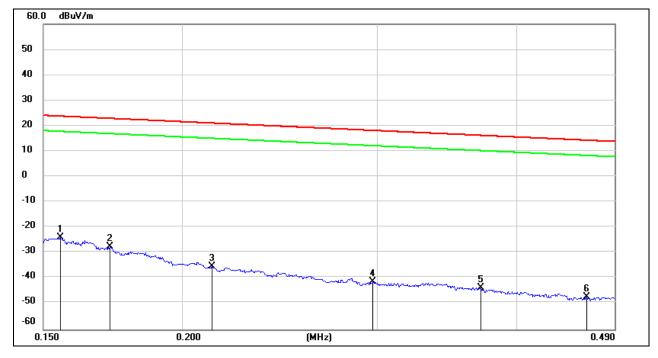
No.	Frequency	Reading	Correct	FCC	FCC	ISED	ISED	Margin	Remark
				Result	Limit	Result	Limit		
	(MHz)	(dBuV)	(dB / m)	(dBuV/m)	(dBuV/m)	(dBuA/m)	(dBuA/m)	(dB)	
1	0.0100	76.22	-101.40	-25.18	47.60	-76.68	-3.9	-72.78	peak
2	0.0134	71.23	-101.39	-30.16	45.06	-81.66	-6.44	-75.22	peak
3	0.0206	66.42	-101.35	-34.93	41.32	-86.43	-10.18	-76.25	peak
4	0.0439	60.39	-101.45	-41.06	34.75	-92.56	-16.75	-75.81	peak
5	0.0757	56.45	-101.59	-45.14	30.02	-96.64	-21.48	-75.16	peak
6	0.1324	52.67	-101.69	-49.02	25.17	-100.52	-26.33	-74.19	peak

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

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

3. All 3 polarizations(Horizontal, Face-on and Face-off) of the loop antenna had been tested, but only the worst data recorded in the report.

<u>150kHz ~ 490kHz</u>



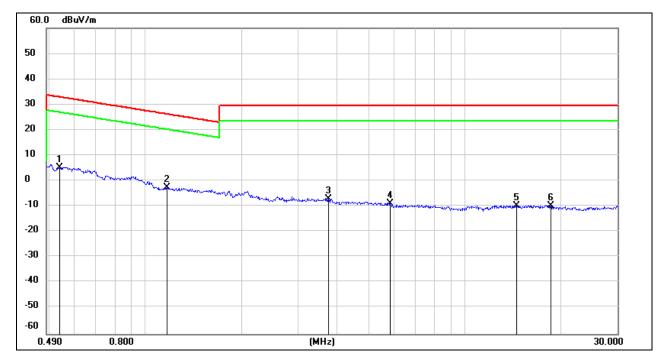
No.	Frequency	Reading	Correct	FCC Result	FCC Limit	ISED Result	ISED Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dBuA/m)	(dBuA/m)	(dB)	
1	0.1554	77.77	-101.65	-23.88	23.77	-75.38	-27.73	-47.65	peak
2	0.1720	74.19	-101.67	-27.48	22.90	-78.98	-28.6	-50.38	peak
3	0.2127	66.45	-101.74	-35.29	21.04	-86.79	-30.46	-56.33	peak
4	0.2972	60.66	-101.85	-41.19	18.14	-92.69	-33.36	-59.33	peak
5	0.3714	58.28	-101.93	-43.65	16.20	-95.15	-35.3	-59.85	peak
6	0.4627	54.72	-102.03	-47.31	14.30	-98.81	-37.2	-61.61	peak

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

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

3. All 3 polarizations(Horizontal, Face-on and Face-off) of the loop antenna had been tested, but only the worst data recorded in the report.

<u>490kHz ~ 30MHz</u>



No.	Frequency	Reading	Correct	FCC	FCC	ISED	ISED	Margin	Remark
	(MHz)	(dBuV)	(dB / m)	Result (dBuV/m)	Limit (dBuV/m)	Result (dBuA/m)	Limit (dBuA/m)	(dB)	
1	0.5383	67.44	-62.08	5.36	32.98	-46.14	-18.52	-27.62	peak
2	1.1687	59.72	-62.19	-2.47	26.25	-53.97	-25.25	-28.72	peak
3	3.7406	54.30	-61.40	-7.10	29.54	-58.6	-21.96	-36.64	peak
4	5.8334	52.63	-61.37	-8.74	29.54	-60.24	-21.96	-38.28	peak
5	14.5073	51.28	-60.99	-9.71	29.54	-61.21	-21.96	-39.25	peak
6	18.6091	51.14	-60.89	-9.75	29.54	-61.25	-21.96	-39.29	peak

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

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

3. All 3 polarizations(Horizontal, Face-on and Face-off) of the loop antenna had been tested, but only the worst data recorded in the report.

Note: All the test modes have been tested, only the worst data record in the report.



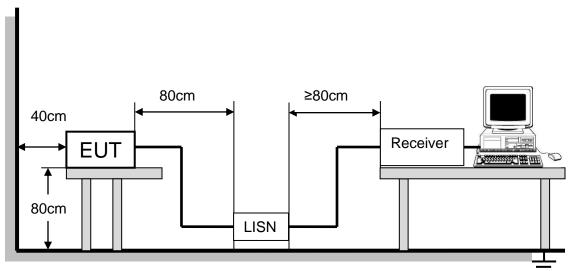
9. AC POWER LINE CONDUCTED EMISSIONS

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

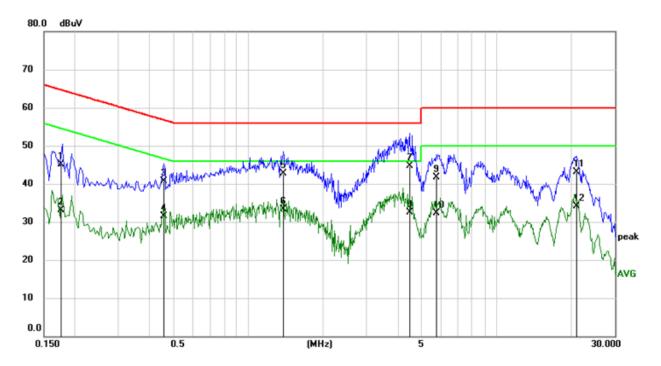
Temperature	24.1°C	Relative Humidity	50%
Atmosphere Pressure	101kPa	Test Voltage	AC 120V, 60Hz

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TEST RESULTS

9.1. 802.11b MODE



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

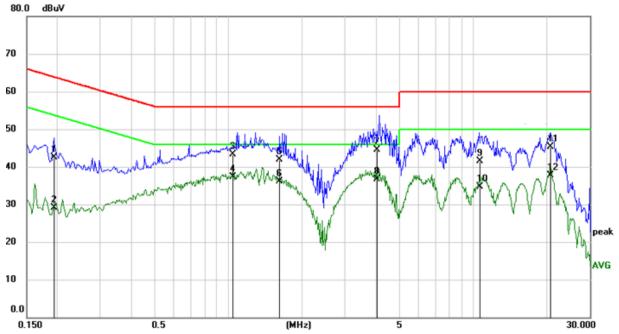
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dB)	
1	0.1757	35.44	9.60	45.04	64.69	-19.65	QP
2	0.1757	23.41	9.60	33.01	54.69	-21.68	AVG
3	0.4573	31.10	9.60	40.70	56.74	-16.04	QP
4	0.4573	21.86	9.60	31.46	46.74	-15.28	AVG
5	1.3767	33.19	9.61	42.80	56.00	-13.20	QP
6	1.3767	23.71	9.61	33.32	46.00	-12.68	AVG
7	4.4341	35.11	9.66	44.77	56.00	-11.23	QP
8	4.4341	22.79	9.66	32.45	46.00	-13.55	AVG
9	5.7318	32.04	9.69	41.73	60.00	-18.27	QP
10	5.7318	22.67	9.69	32.36	50.00	-17.64	AVG
11	21.0306	32.94	10.21	43.15	60.00	-16.85	QP
12	21.0306	23.85	10.21	34.06	50.00	-15.94	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.







No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dB)	
1	0.1924	32.90	9.60	42.50	63.93	-21.43	QP
2	0.1924	19.60	9.60	29.20	53.93	-24.73	AVG
3	1.0443	33.60	9.61	43.21	56.00	-12.79	QP
4	1.0443	27.70	9.61	37.31	46.00	-8.69	AVG
5	1.6226	32.29	9.62	41.91	56.00	-14.09	QP
6	1.6226	26.54	9.62	36.16	46.00	-9.84	AVG
7	4.0473	34.87	9.66	44.53	56.00	-11.47	QP
8	4.0473	27.07	9.66	36.73	46.00	-9.27	AVG
9	10.6359	31.68	9.75	41.43	60.00	-18.57	QP
10	10.6359	24.86	9.75	34.61	50.00	-15.39	AVG
11	20.8013	35.25	10.09	45.34	60.00	-14.66	QP
12	20.8013	27.70	10.09	37.79	50.00	-12.21	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.

Note: All the test modes have been tested, only the worst data record in the report.

10. ANTENNA REQUIREMENTS

APPLICABLE REQUIREMENTS

Please refer to FCC §15.203

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

Please refer to FCC §15.247(b)(4)

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

<u>RESULTS</u>

Complies



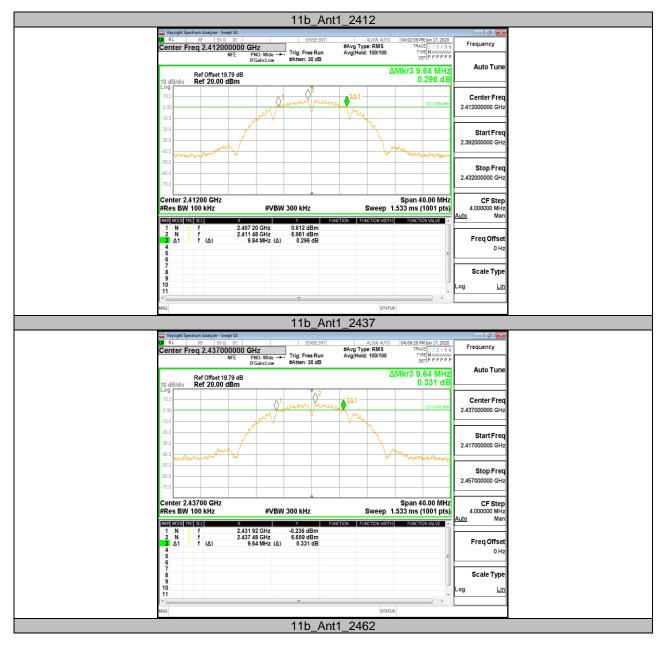
Test Mode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
		2412	9.840	2407.200	2417.040	0.5	PASS
11b Ant1	2437	9.640	2431.920	2441.560	0.5	PASS	
	2462	9.640	2456.920	2466.560	0.5	PASS	
11g Ant1	2412	16.440	2403.760	2420.200	0.5	PASS	
	2437	16.400	2428.800	2445.200	0.5	PASS	
		2462	16.400	2453.800	2470.200	0.5	PASS
11n20SISO Ant1		2412	17.360	2403.200	2420.560	0.5	PASS
	Ant1	2437	17.640	2428.160	2445.800	0.5	PASS
		2462	17.600	2453.160	2470.760	0.5	PASS
11n40SISO		2422	35.200	2404.320	2439.520	0.5	PASS
	Ant1	2437	35.280	2419.320	2454.600	0.5	PASS
		2452	34.720	2434.400	2469.120	0.5	PASS

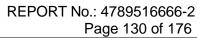
10.1. Appendix A: DTS Bandwidth 10.1.1. Test Result

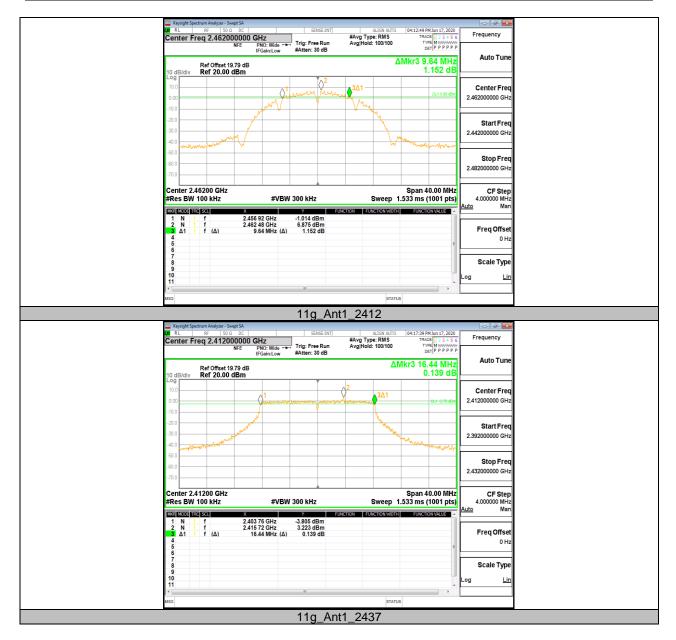
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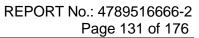


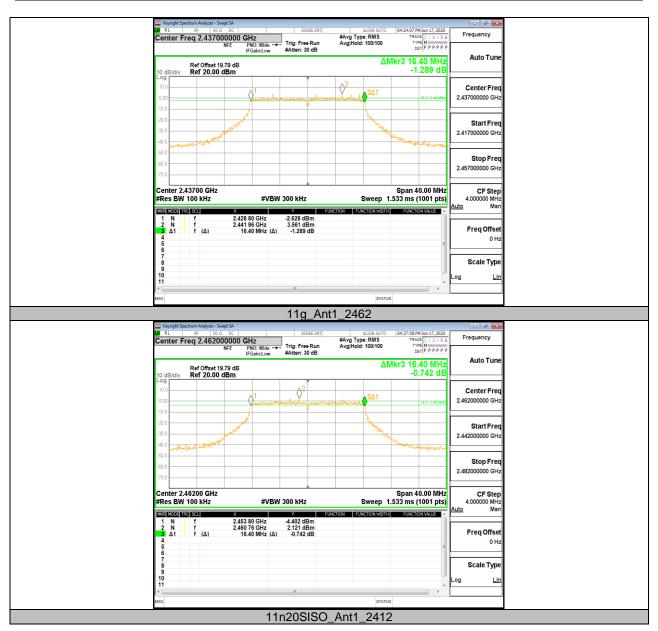
10.1.2. Test Graphs

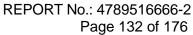


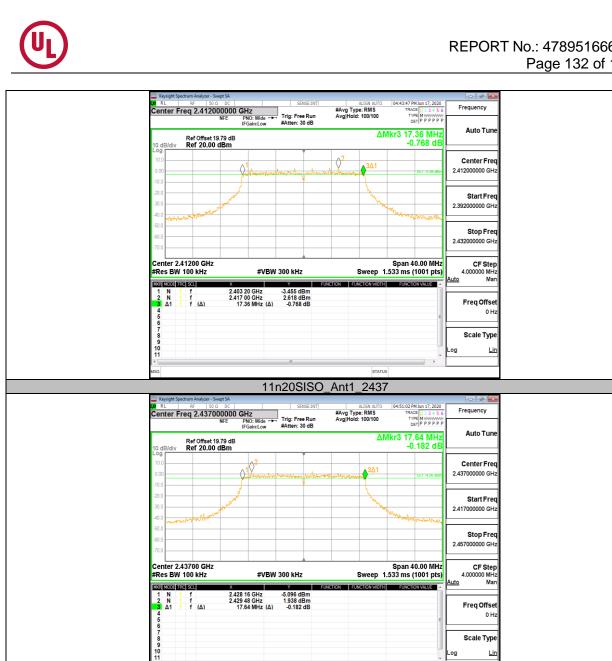








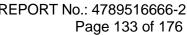


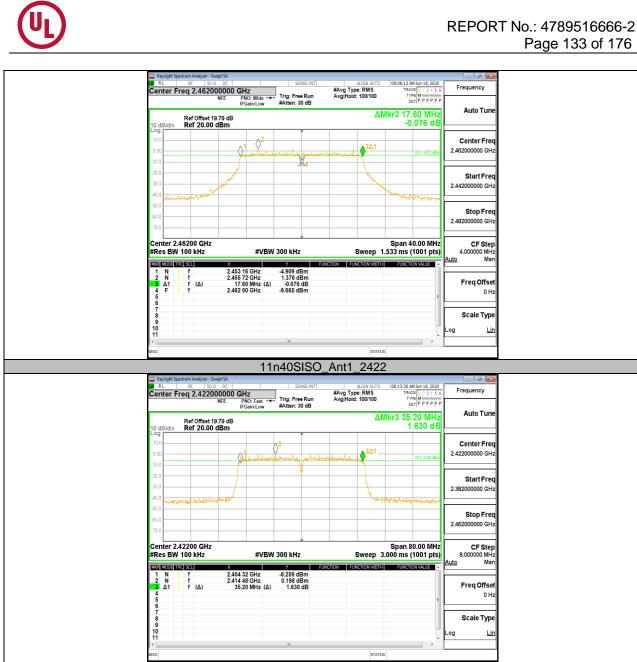


11n20SISO_Ant1_2462

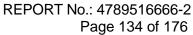
STATUS

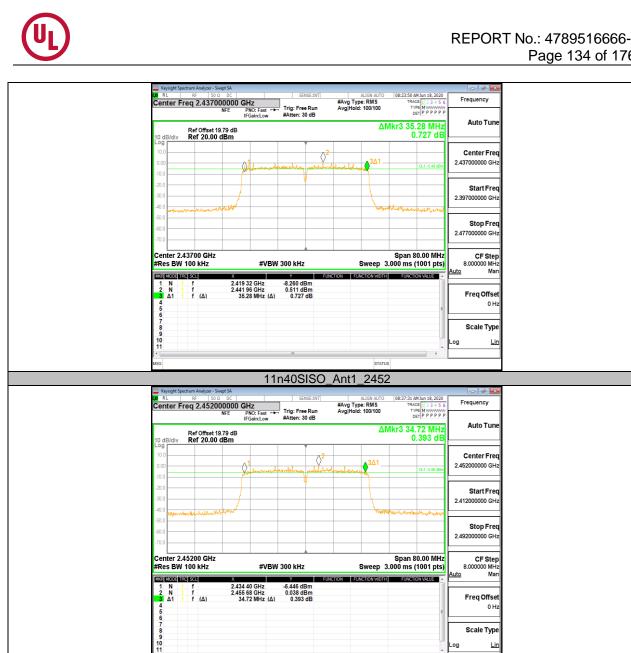
Li





11n40SISO_Ant1_2437





STATUS



Test Mode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11b Ant1		2412	14.880	2404.559	2419.439		PASS
	2437	14.888	2429.546	2444.434		PASS	
		2462	14.875	2454.540	2469.415		PASS
11g Ant1		2412	17.311	2403.321	2420.632		PASS
	Ant1	2437	17.168	2428.408	2445.576		PASS
		2462	17.269	2453.266	2470.535		PASS
11n20SISO Ar		2412	18.129	2402.971	2421.100		PASS
	Ant1	2437	18.116	2427.944	2446.060		PASS
		2462	18.129	2452.886	2471.015		PASS
11n40SISO		2422	35.787	2404.046	2439.833		PASS
	Ant1	2437	35.824	2419.019	2454.843		PASS
		2452	35.804	2434.041	2469.845		PASS

10.2. Appendix B: Occupied Channel Bandwidth 10.2.1. Test Result