



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

CERTIFICATION TEST REPORT

For

IEEE 802.11a/b/g/n 2T2R USB Wi-Fi Module Integrated BT 2.1+EDR/4.2/5.0

MODEL NUMBER: SKO.W618U.1_638BUE

FCC ID: 2AR82- SKOW638U101

IC: 24728-SKOW638U101

REPORT NUMBER: 4789755222-4

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Prepared for

Guangzhou Shikun Electronics Co., Ltd NO.6 Liankun Road, Huangpu District, Guangzhou, China

Prepared by

UL Verification Services (Guangzhou) Co., Ltd, Song Shan Lake Branch

Building 10, Innovation Technology Park, No. 1, Li Bin Road, Song Shan Lake Hi-Tech Development Zone Dongguan, 523808, People's Republic of China

> Tel: +86 769 22038881 Fax: +86 769 33244054 Website: www.ul.com



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Revision History

Rev.	Issue Date	Revisions	Revised By
V0	01/11/2021	Initial Issue	



Summary of Test Results				
Clause	Test Items	FCC/IC Rules	Test Results	
1	6dB/26dB Bandwidth	FCC 15.407 (a)&(e) RSS-247 Clause 6.2	PASS	
2	99% Occupied Bandwidth	RSS-Gen Clause 6.6	PASS	
3	Conducted Output Power	FCC 15.407 (a) RSS-247 Clause 6.2	PASS	
4	Power Spectral Density	FCC 15.407 (a) RSS-247 Clause 6.2	PASS	
5	Radiated Bandedge and Spurious Emission	FCC 15.407 (b) FCC 15.209 FCC 15.205 RSS-247 Clause 6.2 RSS-GEN Clause 8.9	PASS	
6	Conducted Emission Test for AC Power Port	FCC 15.207 RSS-GEN Clause 8.8	PASS	
7	Frequency Stability	FCC 15.407 (g)	PASS	
8	Dynamic Frequency Selection	FCC 15.407 (h) RSS-247 Clause 6.3	PASS	
9	Antenna Requirement	FCC 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 E >< ISED RSS-247 > when <Accuracy Method> decision rule is applied.



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1. ATTESTATION OF TEST RESULTS

Applicant Information

Company Name: Guangzhou Shikun Electronics Co., Ltd

Address: NO.6 Liankun Road, Huangpu District, Guangzhou, China

Manufacturer Information

Company Name: Guangzhou Shikun Electronics Co., Ltd

Address: NO.6 Liankun Road, Huangpu District, Guangzhou, China

EUT Information

EUT Name: IEEE 802.11a/b/g/n 2T2R USB Wi-Fi Module Integrated BT

2.1+EDR/4.2/5.0

Model: SKO.W618U.1_638BUE Sample Received Date: December 14, 2020

Sample Status: Normal Sample ID: 3538000

Date of Tested: December 15, 2020~ January 07, 2021

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

Prepared By:	Checked By:
Mick. Zhong	Shemmalier
Mick Zhang Project Engineer	Shawn Wen Laboratory Leader

Approved By:

Stephen Guo Laboratory Manager

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2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with ANSI C63.10-2013, CFR 47 FCC Part 2, CFR 47 FCC Part 15, KDB 789033 D02 v02r01, RSS-GEN Issue 5, RSS-247 Issue 2, KDB414788 D01 Radiated Test Site v01, KDB 662911 D01 Multiple Transmitter Output v02r01, KDB 905462 D02 UNII DFS Compliance Procedures New Rules v02, KDB 905462 D03 UNII clients without radar detection New Rules v01r02, KDB 905462 D04 Operational Modes for DFS Testing New Rules v01 and KDB 905462 D06 802 11 Channel Plans New Rules v02.

3. FACILITIES AND ACCREDITATION

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

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

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

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



4. CALIBRATION AND UNCERTAINTY

4.1. MEASURING INSTRUMENT CALIBRATION

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

4.2. MEASUREMENT UNCERTAINTY

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

Test Item	Uncertainty
Conduction emission	3.62 dB
Radiated Emission (Included Fundamental Emission) (9 kHz ~ 30 MHz)	2.2 dB
Radiated Emission (Included Fundamental Emission) (30 MHz ~ 1 GHz)	4.00 dB
D # 4 15 1 1	5.78 dB (1 GHz-18 GHz)
Radiated Emission (Included Fundamental Emission) (1 GHz to 40 GHz	5.23dB (18 GHz-26 GHz)
Note: This was entainty assessment on a was also do not entain	5.64 dB (26 GHz-40 GHz)

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



5. EQUIPMENT UNDER TEST

5.1. DESCRIPTION OF EUT

EUT Name	IEEE 802.11a/b/g/n 2T2R USB Wi-Fi Module Integrated BT 2.1+EDR/4.2/5.0		
Model	SKO.W618U.1_638BUE		
Radio Technology	WLAN (IEEE 802.11a/n HT20/n HT40)		
Operation frequency	UNII-1: 5150 ~ 5250 MHz UNII-2A: 5250 ~ 5350 MHz UNII-2C: 5470 ~ 5725 MHz UNII-3: 5725 ~ 5850 MHz		
Modulation	IEEE 802.11a: OFDM (64QAM, 16QAM, QPSK, BPSK) IEEE 802.11n HT20: OFDM (64QAM, 16QAM, QPSK, BPSK) IEEE 802.11n HT40: OFDM (64QAM, 16QAM, QPSK, BPSK)		
Supply Voltage	Rate Input: DC 5 V		



5.2. MAXIMUM OUTPUT POWER

UNII-1 BAND

IEEE Std. 802.11	Frequency (MHz)	Maximum Average Conducted Power (dBm)	Max Average EIRP (dBm)
а		15.30	17.31
n HT20	5150 ~ 5250	16.29	21.32
n HT40		15.33	20.36

UNII-2A BAND

IEEE Std. 802.11	Frequency (MHz)	Maximum Average Conducted Power (dBm)
a		14.71
n HT20	5250 ~ 5350	16.70
n HT40		13.90

UNII-2C BAND

IEEE Std. 802.11	Frequency (MHz)	Maximum Average Conducted Power (dBm)
a		15.38
n HT20	5470 ~ 5725	17.46
n HT40		14.98

UNII-3 BAND

IEEE Std. 802.11	Frequency (MHz)	Maximum Average Conducted Power (dBm)
a		13.54
n HT20	5725 ~ 5850	15.42
n HT40		13.58

5.3. CHANNEL LIST

UNI	I-1	UNII-1		
(For Bandwidt	th = 20 MHz	(For Bandwid	dth = 40 MHz	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	
36	5180	38	5190	
40	5200	46	5230	
44	5220			
48	5240			



UNII	-2A	UNII-2A		
(For Bandwidt	th = 20 MHz)	(For Bandwic	Ith = 40 MHz)	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	
52	5260	54	5270	
56	5280	62	5310	
60	5300			
64	5320			

UNII-2C		UNII-2C		
(For Bandwidt	th = 20 MHz)	(For Bandwic	th = 40 MHz)	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	
100	5500	102	5510	
104	5520	110	5550	
108	5540	118	5590	
112	5560	126	5630	
116	5580	134	5670	
120	5600	142	5710	
124	5620			
128	5640			
132	5660			
136	5680			
140	5700			
144	5720			

	UNII-3		UNII-3		
(For Bandwid	th = 20 MHz	(For Bandwic	dth = 40 MHz		
Channel	Frequency (MHz)	Channel	Frequency (MHz)		
149	5745	151	5755		
153	5765	159	5795		
157	5785				
161	5805				
165	5825				

Note: All channels in the 5600-5650MHz band was not operational in Canada.



5.4. TEST CHANNEL CONFIGURATION

UNII-1 Test Channel Configuration				
IEEE Std.	Test Channel Number	Frequency		
802.11a	CH 36(Low Channel), CH 40(MID Channel), CH 48(High Channel)	5180 MHz, 5200 MHz, 5240 MHz		
802.11n HT20	CH 36(Low Channel), CH 40(MID Channel), CH 48(High Channel)	5180 MHz, 5200 MHz, 5240 MHz		
802.11n HT40	CH 38(Low Channel), CH 46(High Channel)	5190 MHz, 5230 MHz		

UNII-2A Test Channel Configuration				
IEEE Std.	Test Channel Number	Frequency		
802.11a	CH 52(Low Channel), CH 56(MID Channel), CH 64(High Channel)	5260 MHz, 5280 MHz, 5320 MHz		
802.11n HT20	CH 52(Low Channel), CH 56(MID Channel), CH 64(High Channel)	5260 MHz, 5280 MHz, 5320 MHz		
802.11n HT40	CH 54(Low Channel), CH 62(High Channel)	5270 MHz, 5310 MHz		

UNII-2C Test Channel Configuration					
IEEE Std.	IEEE Std. Test Channel Number				
802.11a	CH 100(Low Channel), CH 116(MID Channel), CH 140(High Channel)	5500 MHz, 5580 MHz, 5700 MHz			
802.11n VHT20	CH 100(Low Channel), CH 116(MID Channel), CH 140(High Channel)	5500 MHz, 5580 MHz, 5700 MHz			
802.11n VHT40	CH 102(Low Channel), CH 118(MID Channel), CH 134(High Channel)	5510 MHz, 5590 MHz, 5670 MHz			

Test Straddle Channel Configuration				
IEEE Std.	Test Channel Number	Frequency		
802.11a	CH 144(High Channel)	5720 MHz		
802.11n VHT20	CH 144(High Channel)	5720 MHz		
802.11n VHT40	CH 142(High Channel)	5710 MHz		

	UNII-3 Test Channel Configuration				
IEEE Std.	Test Channel Number	Frequency			
802.11a	CH 149(Low Channel), CH 157(MID Channel), CH 165(High Channel)	5745 MHz, 5785 MHz, 5825 MHz			
802.11n HT20	CH 149(Low Channel), CH 157(MID Channel), CH 165(High Channel)	5745 MHz, 5785 MHz, 5825 MHz			
802.11n HT40	CH 151(Low Channel), CH 159(High Channel)	5755MHz, 5795MHz			



5.5.

DESCRIPTION OF AVAILABLE ANTENNAS

Antenna No.	Frequency (MHz)	Antenna Type	Max Antenna Gain (dBi)
1	5150-5850	PCB antenna	2.01
2	5150-5850	PCB antenna	2.03

Note: Directional gain= $10 \log [(10^{G1/20} + 10^{G2/20})^2/N_{ANT}] = 5.03dBi$

G_{ANT}: Average of the Antenna Gain

N_{ANT}: Antenna numbers

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

IEE Std. 802.11	Transmit and Receive Mode	Description
802.11a	⊠2TX, 2RX	ANT 1,2 can be used as transmitting/receiving antenna.
802.11n HT20	⊠2TX, 2RX	ANT 1,2 can be used as transmitting/receiving antenna.
802.11n HT40	⊠2TX, 2RX	ANT 1,2 can be used as transmitting/receiving antenna.
Note:		

Note:

1.WLAN 2.4G & WLAN 5G can't transmit simultaneously. (declared by client)



5.6. THE WORSE CASE POWER SETTING PARAMETER

The Worse Case Power Setting Parameter					
Test Software	QATool_Dbg				
Frequency Band	mode channel setting				

UNII-1/ UNII-2A/ UNII-2C/ UNII-3

IEEE Std. 802.11	Rate	Channel	Test Software Setting Value		
ILLE Std. 802.11	Nate	Grianner	ANT 1	ANT 2	
а	6M		Default	Default	
n HT20	MCS0	All	Default	Default	
n HT40	MCS0		Default	Default	

5.7. THE WORSE CASE CONFIGURATIONS

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

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

Test channels referring to section 5.4.

Maximum power setting referring to section 5.6.

Worst case Data Rates declared by the customer:

IEEE 802.11a / SISO – BPSK / 6 Mbps IEEE 802.11n HT20 / MIMO – BPSK / MCS0 IEEE 802.11n HT40 / MIMO – BPSK / MCS0

802.11n SISO mode and MIMO mode have the same power setting, so only the worst case power mode(MIMO) will be record in the report.

Antenna 1 and Antenna 2 have the same power setting, but the power test data are different. (Declared by customer.)

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

Conducted output power, power spectral density tests separately on each port with all supported SISO & MIMO port combinations.

Radiated emissions tests were performed with the MIMO modes. These were found to be the worst modulation scheme with regards to emissions after preliminary investigations and, as this mode emits the highest conducted output power level, it was deemed to be the worst case.



5.8. DESCRIPTION OF TEST SETUP

SUPPORT EQUIPMENT

Item	Equipment	Brand Name	Model Name	Remarks
1	Laptop	ThinkPad	E480	/
2	USB TO UART	/	/	/

I/O CABLES

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

ACCESSORIES

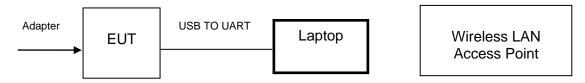
Item	Accessory	Brand Name	Model Name	Description
1	AC Adapter	/	HKA02412020-3K	Input: AC 100~240V, 50/60Hz, 0.8A Output: DC 12V, 2A

TEST SETUP

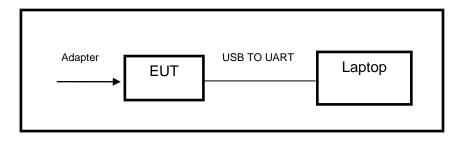
The EUT can work in engineering mode with a software through a Laptop.

SETUP DIAGRAM FOR TESTS

For DFS Test:



For the other RF Test:





6. MEASURING INSTRUMENT AND SOFTWARE USED

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

Radiated Emissions							
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due Date		
MXE EMI Receiver	KESIGHT	N9038A	MY56400036	Nov. 12, 2020	Nov. 11, 2021		
Hybrid Log Periodic Antenna	TDK	HLP-3003C	130960	Aug. 11, 2018	Aug. 10, 2021		
Preamplifier	HP	8447D	2944A09099	Nov. 12, 2020	Nov. 11, 2021		
EMI Measurement Receiver	R&S	ESR26	101377	Nov. 12, 2020	Nov. 11, 2021		
Horn Antenna	TDK	HRN-0118	130939	Sept. 17, 2018	Sept. 17, 2021		
Preamplifier	TDK	PA-02-0118	TRS-305- 00067	Nov. 20, 2020	Nov. 19, 2021		
Horn Antenna	Schwarzbeck	BBHA9170	#691	Aug. 11, 2018	Aug. 11, 2021		
Preamplifier	TDK	PA-02-2	TRS-307- 00003	Nov. 12, 2020	Nov. 11, 2021		
Preamplifier	TDK	PA-02-3	TRS-308- 00002	Nov. 12, 2020	Nov. 11, 2021		
Loop antenna	Schwarzbeck	1519B	80000	Jan.17, 2019	Jan.17,2022		
Preamplifier	TDK	PA-02-001- 3000	TRS-302- 00050	Nov. 12, 2020	Nov. 11, 2021		
Preamplifier	Mini-Circuits	ZX60-83LN- S+	SUP01201941	Nov. 20, 2020	Nov. 19, 2021		
Highpass Filter	Wainwright	WHKX10- 5850-6500- 1800-40SS	4	Nov. 12, 2020	Nov. 11, 2021		
Band Reject Filter	Wainwright	WRCJV12- 5695-5725- 5850-5880- 40SS	4	Nov. 12, 2020	Nov. 11, 2021		
Band Reject Filter	Wainwright	WRCJV20- 5120-5150- 5350-5380- 60SS	2	Nov. 12, 2020	Nov. 11, 2021		



Band Reject Filter	Wainwright	WRCJV20- 5440-5470- 5725-5755- 60SS	1	Nov. 12, 2020	Nov. 11, 2021			
	Software							
Description			Manufacturer	Name	Version			
Test Software for Radiated Emissions			Farad	EZ-EMC	Ver. UL-3A1			

Tonsend RF Test System							
Equipment	Manufacturer	М	odel No.	Serial No.	Last	Cal.	Due. Date
Wideband Radio Communication Tester	R&S	С	MW500	155523	Nov.20	0,2020	Nov.19,2021
PXA Signal Analyzer	Keysight	Ν	19030A	MY55410512	Nov.20	0,2020	Nov.19,2021
MXG Vector Signal Generator	Keysight	Ν	l5182B	MY56200284	Nov.20	0,2020	Nov.19,2021
MXG Vector Signal Generator	Keysight	Ζ	l5172B	MY56200301	Nov.20	0,2020	Nov.19,2021
DC power supply	Keysight	Е	3642A	MY55159130	Nov.2	4,2020	Nov.23,2021
Temperature & Humidity Chamber	SANMOOD	SG-80-CC-2		2088	Nov.20	0,2020	Nov.19,2021
Software							
Description	Manufactu	Manufacturer		Name		,	Version
Tonsend SRD Test System Tonsend			JS1120	-3 RF Test Sys	stem	2.6	6.77.0518

Other Instruments							
Equipment Manufacturer Model No. Serial No. Last Cal. Next Cal.							
Power sensor, Power Meter	R&S	OSP120	100921	Mar.13,2020	Mar.13,2021		



7. ANTENNA PORT TEST RESULTS

7.1. ON TIME AND DUTY CYCLE

LIMITS

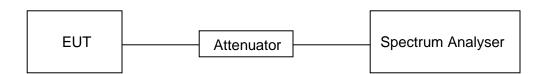
None; for reporting purposes only.

PROCEDURE

Refer to KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 section II.B.

The zero-span mode on a spectrum analyzer or EMI receiver, if the response time and spacing between bins on the sweep are sufficient to permit accurate measurements of the on and off times of the transmitted signal. Set the center frequency of the instrument to the center frequency of the transmission. Set RBW \geq EBW if possible; otherwise, set RBW to the largest available value. Set VBW \geq RBW. Set detector = peak or average. The zero-span measurement method shall not be used unless both RBW and VBW are > 50/T, where T is defined in II.B.1.a), and the number of sweep points across duration T exceeds 100. (For example, if VBW and/or RBW are limited to 3 MHz, then the zero-span method of measuring duty cycle shall not be used if T \leq 16.7 microseconds.)

TEST SETUP



TEST ENVIRONMENT

Temperature	24.4 °C	Relative Humidity	58 %
Atmosphere Pressure	101 kPa	Test Voltage	DC 5 V

RESULTS

Please refer to appendix E.



7.2. 6/26 dB EMISSION BANDWIDTH AND 99 % OCCUPIED BANDWIDTH

LIMITS

CFR 47 FCC Part15, Subpart E ISED RSS-247 ISSUE 2			
Test Item	Limit	Frequency Range (MHz)	
26 dB Emission Bandwidth	For reporting purposes only.	5150 ~ 5250	
26 dB Emission Bandwidth	For reporting purposes only.	5250 ~ 5350	
26 dB Emission Bandwidth	For reporting purposes only.	5470 ~ 5725 (For FCC) 5470 ~ 5600 (For ISED) 5650 ~ 5725 (For ISED)	
6 dB Emission Bandwidth	The minimum 6 dB emission bandwidth shall be 500 kHz.	5725 ~ 5850	
99 % Occupied Bandwidth	For reporting purposes only.	5150 ~ 5825 (For ISED)	

TEST PROCEDURE

Refer to KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 section II.C1. for 26 dB Emission Bandwidth; section II.C2. for 6 dB Emission Bandwidth; section II.D. for 99 % Occupied Bandwidth.

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

Center Frequency	The center frequency of the channel under test
Detector	Peak
RBW	For 6 dB Emission Bandwidth: RBW=100 kHz For 26 dB Emission bandwidth: approximately 1 % of the EBW. For 99 % Occupied Bandwidth: approximately 1 % ~ 5 % of the OBW.
VBW	For 6 dB Bandwidth: ≥ 3*RBW For 26 dB Bandwidth: >3*RBW For 99 % Bandwidth: >3*RBW
Trace	Max hold
Sweep	Auto couple

- a) Use the 99 % power bandwidth function of the instrument, allow the trace to stabilize and report the measured bandwidth.
- b) Allow the trace to stabilize and measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6/26 dB relative to the maximum level measured in the fundamental emission.

Calculation for 99 % Bandwidth of UNII-2C and UNII-3 Straddle Channel:

For Example: Fundamental Frequency: 5720 MHz

99 % OBW: 21.00 MHz

Turning Frequency: 5725 MHz

99 % Bandwidth of UNII-2C Band Portion = (5725-(5720-(21.00/2)) = 15.50 MHz

99 % Bandwidth of UNII-3 Band Portion = (5720+(21.00/2)-5725) = 5.50 MHz

Calculation for 26 dB Bandwidth of UNII-2C Straddle Channel:

For Example: Fundamental frequency: 5720 MHz

26 dB BW: 20.00 MHz

FL: 5710.16 MHz FH: 5730.16 MHz

Turning Frequency: 5725 MHz

26 dB Bandwidth of UNII-2C Band Portion = 5725-5710.16=14.84 MHz

Calculation for 6dB Bandwidth of UNII-3 Straddle Channel:

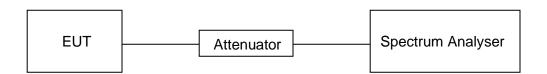
For Example: Fundamental frequency: 5720 MHz

6 dB BW: 16.44 MHz FL: 5711.76 MHz FH: 5728.2 MHz

Turning Frequency: 5725 MHz

6 dB Bandwidth of UNII-3 band Portion = 5728,2-5725=3.2 MHz

TEST SETUP



TEST ENVIRONMENT

Temperature	24.4 °C	Relative Humidity	58 %
Atmosphere Pressure	101 kPa	Test Voltage	DC 5 V

RESULTS

Please refer to Appendix A1&A2&A3.



7.3. CONDUCTED OUTPUT POWER

LIMITS

CFR 47 FCC Part15, Subpart E			
Test Item	Limit	Frequency Range (MHz)	
Conducted	☐ Outdoor Access Point: 1 W (30 dBm) ☐ Indoor Access Point: 1 W (30 dBm) ☐ Fixed Point-To-Point Access Points: 1 W (30 dBm) ☐ Client Devices: 250 mW (24 dBm)	5150 ~ 5250	
Output Power	Shall not exceed the lesser of 250 mW (24dBm) or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in megahertz.	5250 ~ 5350 5470 ~ 5725	
	Shall not exceed 1 Watt (30 dBm).	5725 ~ 5850	

ISED RSS-247 ISSUE 2			
Test Item	Limit	Frequency Range (MHz)	
	The maximum e.i.r.p. shall not exceed 200 mW (23 dBm) or 10 + 10 log ₁₀ B, dBm, whichever power is less. B is the 99 % emission bandwidth in megahertz.	5150 ~ 5250	
Conducted Output Power or e.i.r.p.	 a. The maximum conducted output power shall not exceed 250 mW (24 dBm) or 11 + 10 log₁₀B dBm, whichever is less. b. The maximum e.i.r.p. shall not exceed 1.0 W (30 dBm) or 17 + 10 log₁₀B dBm, whichever is less. B is the 99 % emission bandwidth in megahertz. Note that devices with a maximum e.i.r.p. greater than 500 mW shall implement TPC in order to have the capability to operate at least 6 dB below the maximum permitted e.i.r.p. of 1 W. 	5250 ~ 5350 5470 ~ 5600 5650 ~ 5725	
	Shall not exceed 1 Watt (30 dBm). The e.i.r.p. shall not exceed 4 W	5725 ~ 5850	

Note

The above limits are based upon the maximum antenna gain does not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, the maximum conducted output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.



TEST PROCEDURE

Refer to KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 section II.E.

Method SA-1 (trace averaging with the EUT transmitting at full power throughout each sweep):

- (i) Set span to encompass the entire emission bandwidth (EBW) (or, alternatively, the entire 99% occupied bandwidth) of the signal.
- (ii) Set RBW = 1 MHz.
- (iii) Set VBW ≥ 3 MHz.
- (iv) Number of points in sweep $\geq 2 \times \text{span} / \text{RBW}$. (This ensures that bin-to-bin spacing is $\leq \text{RBW}/2$, so that narrowband signals are not lost between frequency bins.)
- (v) Sweep time = auto.
- (vi) Detector = power averaging (rms), if available. Otherwise, use sample detector mode.
- (vii) If transmit duty cycle < 98° %, use a video trigger with the trigger level set to enable triggering only on full power pulses. Transmitter must operate at maximum power control level for the entire duration of every sweep. If the EUT transmits continuously (i.e., with no off intervals) or at duty cycle $\geq 98^{\circ}$ %, and if each transmission is entirely at the maximum power control level, then the trigger shall be set to "free run."
- (viii) Trace average at least 100 traces in power averaging (rms) mode.
- (ix) Compute power by integrating the spectrum across the EBW (or, alternatively, the entire 99% occupied bandwidth) of the signal using the instrument's band power measurement function with band limits set equal to the EBW (or occupied bandwidth) band edges. If the instrument does not have a band power function, sum the spectrum levels (in power units) at 1 MHz intervals extending across the EBW (or, alternatively, the entire 99% occupied bandwidth) of the spectrum.

Method PM (Measurement using an RF average power meter):

- (i) Measurements may be performed using a wideband RF power meter with a thermocouple detector or equivalent if all of the following conditions are satisfied:
- a. The EUT is configured to transmit continuously or to transmit with a constant duty cycle.
- b. At all times when the EUT is transmitting, it must be transmitting at its maximum power control level.
- c. The integration period of the power meter exceeds the repetition period of the transmitted signal by at least a factor of five.
- (ii) If the transmitter does not transmit continuously, measure the duty cycle, x, of the transmitter output signal as described in II.B.
- (iii) Measure the average power of the transmitter. This measurement is an average over both the on and off periods of the transmitter.
- (iv) Adjust the measurement in dBm by adding 10 log (1/x) where x is the duty cycle (e.g., 10 log (1/0.25) if the duty cycle is 25 %).

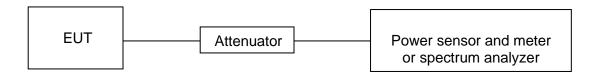
Method PM-G (Measurement using a gated RF average power meter):

Measurements may be performed using a wideband gated RF power meter provided that the gate parameters are adjusted such that the power is measured only when the EUT is transmitting at its maximum power control level. Since the measurement is made only during the ON time of the transmitter, no duty cycle correction factor is required.

Straddle channel power was measured using spectrum analyzer.



TEST SETUP



TEST ENVIRONMENT

Temperature	24.4 °C	Relative Humidity	58 %
Atmosphere Pressure	101 kPa	Test Voltage	DC 5 V

RESULTS

Please refer to Appendix B.

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7.4. POWER SPECTRAL DENSITY

LIMITS

CFR 47 FCC Part15, Subpart E			
Test Item	Limit	Frequency Range (MHz)	
Power Spectral Density	☐ Outdoor Access Point: 17 dBm/MHz ☐ Indoor Access Point: 17 dBm/MHz ☐ Fixed Point-To-Point Access Points: 17 dBm/MHz ☐ Client Devices: 11 dBm/MHz	5150 ~ 5250	
Density	11 dBm/MHz	5250 ~ 5350 5470 ~ 5725	
	30 dBm/500kHz	5725 ~ 5850	

ISED RSS-247 ISSUE 2			
Test Item	Limit	Frequency Range (MHz)	
	The e.i.r.p. spectral density shall not exceed 10 dBm in any 1.0 MHz band.	5150 ~ 5250	
Power Spectral Density	The power spectral density shall not exceed 11 dBm inany 1.0 MHz band.	5250 ~ 5350 5470 ~ 5600 5650 ~ 5725	
	30 dBm / 500 kHz	5725 ~ 5850	

Note:

The above limits are based upon the maximum antenna gain does not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

TEST PROCEDURE

Refer to KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 section II.F.



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

For U-NII-1, U-NII-2A and U-NII-2C band:

Center Frequency	The center frequency of the channel under test
Detector	RMS
RBW	1 MHz
VBW	≥3 × RBW
Span	Encompass the entire emissions bandwidth (EBW) of the signal
Trace	Max hold
Sweep time	Auto

For U-NII-3:

Center Frequency	The center frequency of the channel under test
Detector	RMS
RBW	500 kHz
VBW	≥3 × RBW
Span	Encompass the entire emissions bandwidth (EBW) of the signal
Trace	Max hold
Sweep time	Auto

Allow trace to fully stabilize and Use the peak search function on the instrument to find the peak of the spectrum and record its value.

Add 10 log (1/x), where x is the duty cycle, to the peak of the spectrum, the result is the Maximum PSD over 1 MHz / 500 kHz reference bandwidth.

TEST SETUP



TEST ENVIRONMENT

Temperature	24.4 °C	Relative Humidity	58 %
Atmosphere Pressure	101 kPa	Test Voltage	DC 5 V

RESULTS

Please refer to Appendix C.



8. RADIATED TEST RESULTS

LIMITS

Refer to CFR 47 FCC §15.205, §15.209 and §15.407 (b).

Refer to ISED RSS-GEN Clause 8.9, Clause 8.10 and ISED RSS-247 6.2.

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

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

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

ISED General field strength limits at frequencies below 30 MHz

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

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



ISED Restricted bands refer to ISED RSS-GEN Clause 8.10

MHz	MHz	GHz	
0.090 - 0.110	149.9 - 150.05	9.0 - 9.2	
0.495 - 0.505	158.52475 - 158.52525	9.3 - 9.5	
2.1735 - 2.1905	156.7 - 156.9	10.6 - 12.7	
3.020 - 3.028	162.0125 - 167.17	13.25 - 13.4	
4.125 - 4.128	167.72 - 173.2	14.47 - 14.5	
4.17725 - 4.17775	240 – 285	15.35 - 16.2	
4.20725 - 4.20775	322 - 335.4	17.7 - 21.4	
5.677 - 5.683	399.9 - 410	22.01 - 23.12	
3.215 - 6.218	608 - 614	23.6 - 24.0	
3.26775 - 6.26825	960 - 1427	31.2 - 31.8	
3.31175 - 6.31225	1435 - 1626.5	36.43 - 36.5	
3.291 - 8.294	1845.5 - 1848.5	Above 38.6	
3.362 - 8.366	1660 - 1710		
8.37625 - 8.38675	1718.8 - 1722.2		
8.41425 - 8.41475	2200 - 2300		
12.29 - 12.293	2310 - 2390		
12.51975 - 12.52025	2483.5 - 2500		
12.57675 - 12.57725	2655 - 2900		
13.36 - 13.41	3280 - 3287		
16.42 - 16.423	3332 - 3339		
16.69475 - 16.69525	3345.8 - 3358		
16.80425 - 16.80475	3500 - 4400		
25.5 - 25.67	4500 - 5150		
37.5 - 38.25	5350 - 5480		
73 - 74.6	7250 - 7750		
74.8 - 75.2	8025 - 8500		
108 – 138			

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

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

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

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Limits of unwanted/undesirable emission out of the restricted bands refer to CFR 47 FCC §15.407 (b) and ISED RSS-247 6.2.

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1GHz)							
Frequency Range	EIRP Limit	Field Strength Limit					
(MHz)	EIRF LIIIIIL	(dBuV/m) at 3 m					
5150~5250 MHz							
5250~5350 MHz	PK: -27 (dBm/MHz)	PK:68.2(dBµV/m)					
5470~5725 MHz							
	PK: -27 (dBm/MHz) *1	PK: 68.2(dBµV/m) *1					
5725~5850 MHz	PK: 10 (dBm/MHz) *2	PK: 105.2 (dBµV/m) *2					
3725~5650 WITZ	PK: 15.6 (dBm/MHz) *3	PK: 110.8(dBµV/m) *3					
	PK: 27 (dBm/MHz) *4	PK: 122.2 (dBµV/m) *4					

Note:

^{*1} beyond 75 MHz or more above of the band edge.

^{*2} below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above.

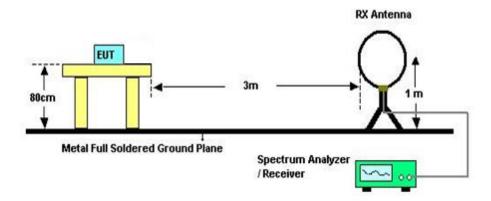
^{*3} below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above.

^{*4} from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.



TEST SETUP AND PROCEDURE

Below 30 MHz



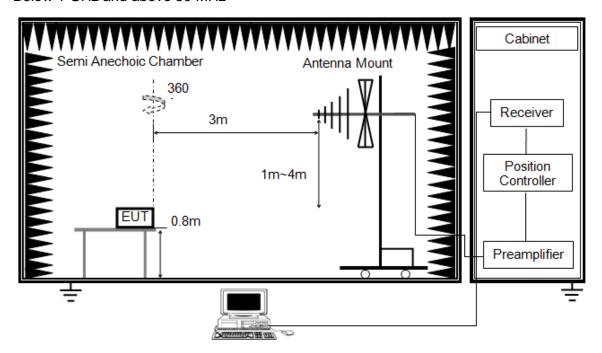
The setting of the spectrum analyser

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

- 1. The testing follows the guidelines in ANSI C63.10-2013 clause 11.11.
- 2. The EUT was arranged to its worst case and then turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level. Both Horizontal, Face-on and Face-off polarizations of the antenna are set to make the measurement.
- 3. The EUT was placed on a turntable with 80 cm above ground.
- 4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a 1 m height antenna tower.
- 5. The radiated emission limits are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.
- 6. For measurement below 1 GHz, the initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak and average detector mode remeasured. If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak and average detector and reported.
- 7. Although these tests were performed other than open field site, adequate comparison measurements were confirmed against 30 m open field site. Therefore sufficient tests were made to demonstrate that the alternative site produces results that correlate with the ones of tests made in an open field site based on KDB 414788.



Below 1 GHz and above 30 MHz



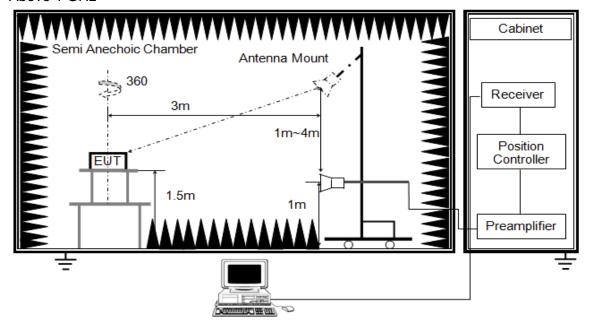
The setting of the spectrum analyser

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

- 1. The testing follows the guidelines in ANSI C63.10-2013 clause 11.11.
- 2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- 3. The EUT was placed on a turntable with 80 cm above ground.
- 4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
- 5. For measurement below 1 GHz, the initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured. If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.



Above 1 GHz



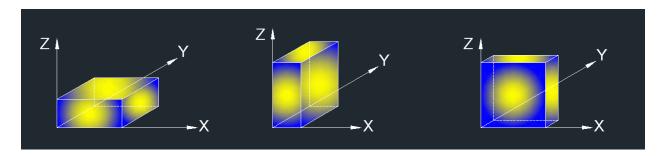
The setting of the spectrum analyser

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

- 1. The testing follows the guidelines in KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 section II.G.3 ~ II.G.6.
- 2. The EUT was arranged to its worst case and then tune the antenna tower (1.5 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- 3. The EUT was placed on a turntable with 1.5 m above ground.
- 4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
- 5. For measurement above 1 GHz, the emission measurement will be measured by the peak detector. This peak level, once corrected, must comply with the limit specified in Section 15.209.
- 6. For measurements above 1 GHz the resolution bandwidth is set to 1 MHz, then the video bandwidth is set to 3 MHz for peak measurements and 1 MHz resolution bandwidth with 1/T video bandwidth with peak detector for average measurements. For the Duty Cycle please refer to clause 7.1.ON TIME AND DUTY CYCLE.



X axis, Y axis, Z axis positions:



Note 1: For all radiated test, EUT in each of three orthogonal axis emissions had been tested, but only the worst case (X axis) data recorded in the report.

Note 2: The EUT was fully exercised with external accessories during the test. In the case of multiple accessory external ports, an external accessory shall be connected to one of each type of port.

TEST ENVIRONMENT

Temperature	22.3 °C	Relative Humidity	62.3 %
Atmosphere Pressure	101 kPa	Test Voltage	DC 5 V

RESULTS



8.1. RESTRICTED BANDEDGE

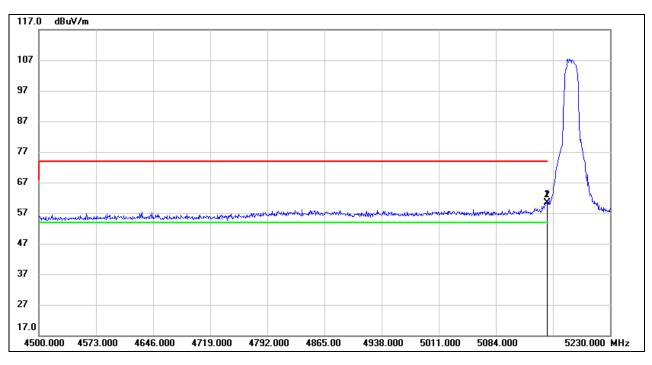
8.1.1. 802.11a SISO MODE

UNII-1 BAND

ANTENNA 1 TEST RESULTS (WORST CASE)

RESTRICTED BANDEDGE (LOW CHANNEL, VERTICAL)

PEAK



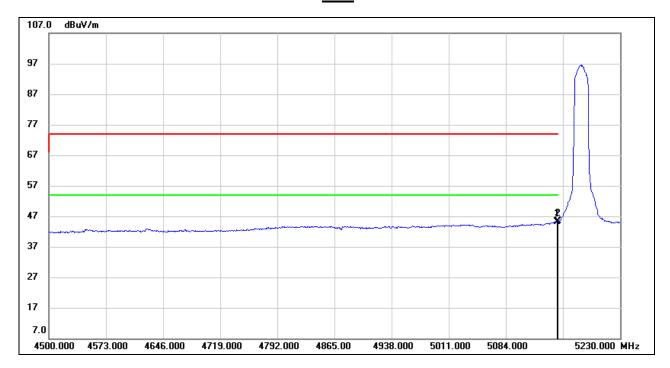
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5149.700	39.65	20.78	60.43	74.00	-13.57	peak
2	5150.000	39.56	20.79	60.35	74.00	-13.65	peak

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 data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.



AVG



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5149.700	24.32	20.78	45.10	54.00	-8.90	AVG
2	5150.000	24.59	20.79	45.38	54.00	-8.62	AVG

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

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

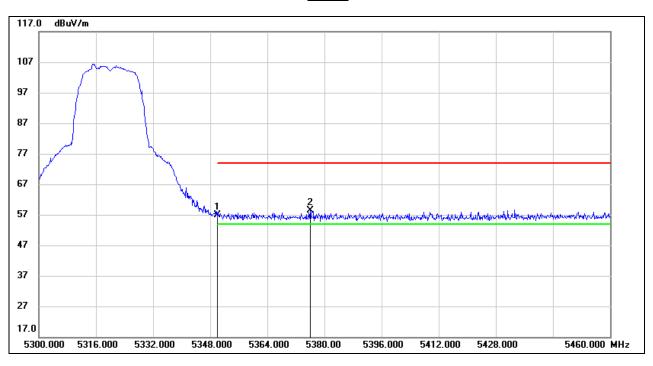


UNII-2A BAND

ANTENNA 1 TEST RESULTS (WORST CASE)

RESTRICTED BANDEDGE (HIGH CHANNEL, VERTICAL)

PEAK



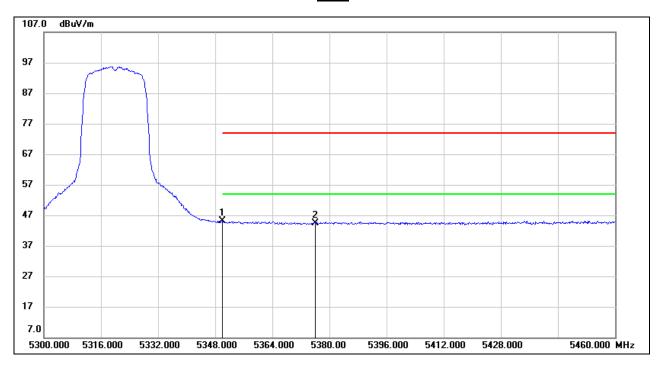
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5350.000	36.01	20.87	56.88	74.00	-17.12	peak
2	5376.000	37.48	21.02	58.50	74.00	-15.50	peak

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



AVG



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5350.000	24.15	20.87	45.02	54.00	-8.98	AVG
2	5376.000	23.40	21.02	44.42	54.00	-9.58	AVG

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

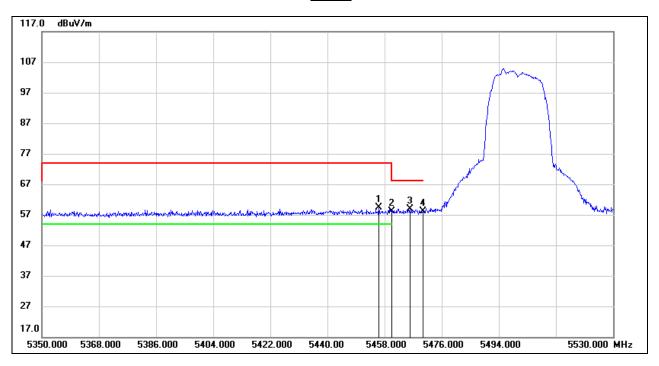


UNII-2C BAND

ANTENNA 1 TEST RESULTS (WORST CASE)

RESTRICTED BANDEDGE (LOW CHANNEL, VERTICAL)

PEAK

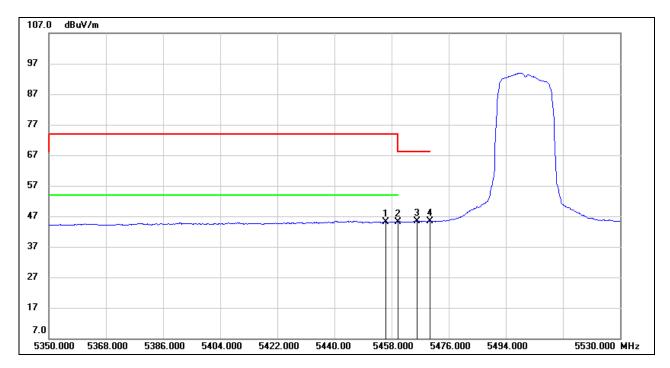


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5456.200	37.80	21.50	59.30	74.00	-14.70	peak
2	5460.000	36.62	21.52	58.14	68.20	-10.06	peak
3	5465.920	37.30	21.56	58.86	68.20	-9.34	peak
4	5470.000	36.43	21.58	58.01	68.20	-10.19	peak

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



AVG



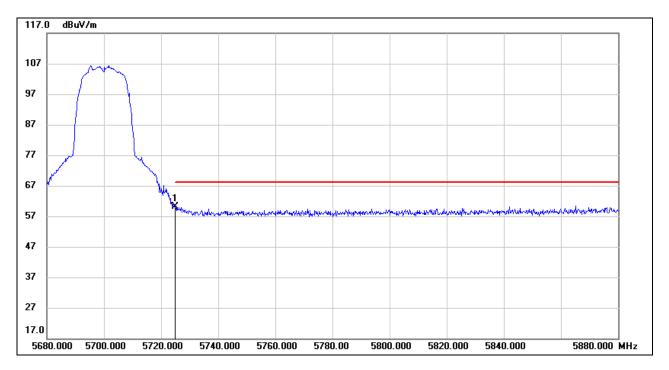
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5456.200	23.54	21.50	45.04	54.00	-8.96	AVG
2	5460.000	23.62	21.52	45.14	54.00	-8.86	AVG
3	5465.920	23.71	21.56	45.27	/	/	AVG
4	5470.000	23.72	21.58	45.30	/	/	AVG

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



RESTRICTED BANDEDGE (HIGH CHANNEL, VERTICAL)

PEAK



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5725.000	38.56	21.62	60.18	68.20	-8.02	peak

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

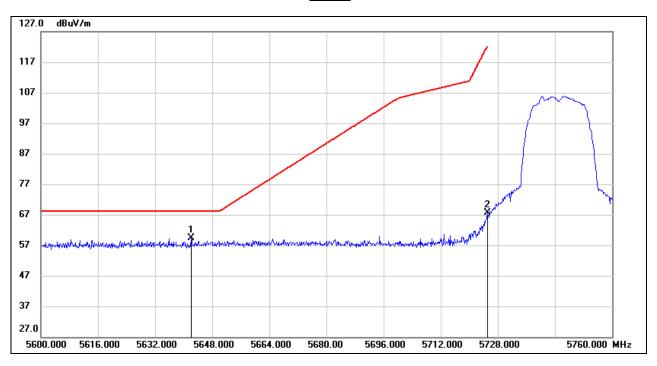


UNII-3 BAND

ANTENNA 1 TEST RESULTS (WORST CASE)

RESTRICTED BANDEDGE (LOW CHANNEL, VERTICAL)

PEAK



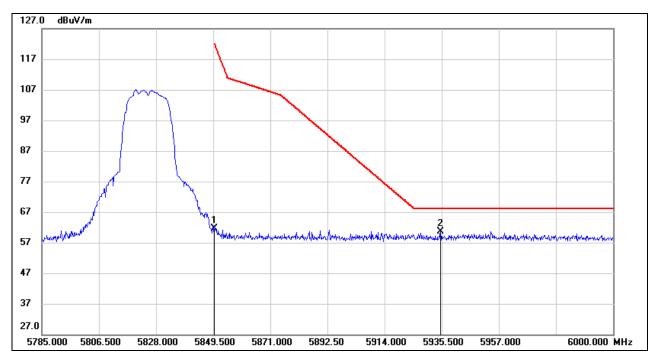
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5642.080	37.63	21.64	59.27	68.20	-8.93	peak
2	5725.000	45.93	21.62	67.55	122.20	-54.65	peak

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



RESTRICTED BANDEDGE (HIGH CHANNEL, VERTICAL)

<u>PEAK</u>



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5850.000	39.21	22.39	61.60	122.20	-60.60	peak
2	5935.070	37.87	22.69	60.56	68.20	-7.64	peak

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

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

Note: All the polarities (Vertical & Horizontal) and Antennas had been tested, only the worst data was recorded in the report.

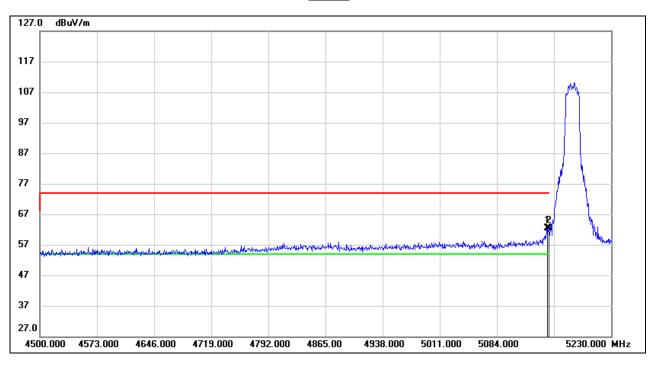


8.1.2. 802.11n HT20 MIMO MODE

UNII-1 BAND

RESTRICTED BANDEDGE (LOW CHANNEL, VERTICAL)

PEAK

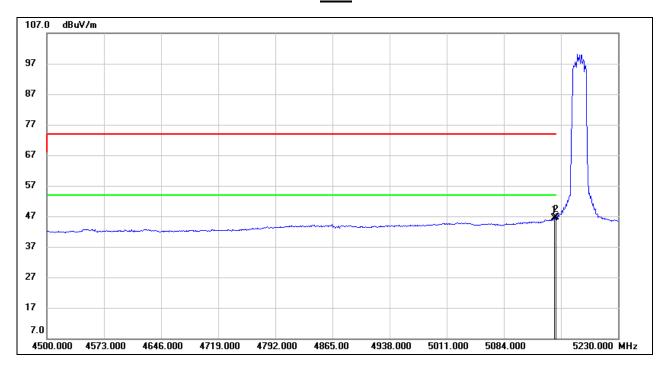


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5148.240	41.70	20.77	62.47	74.00	-11.53	peak
2	5150.000	41.64	20.79	62.43	74.00	-11.57	peak

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



AVG



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5148.240	25.56	20.77	46.33	54.00	-7.67	AVG
2	5150.000	25.82	20.79	46.61	54.00	-7.39	AVG

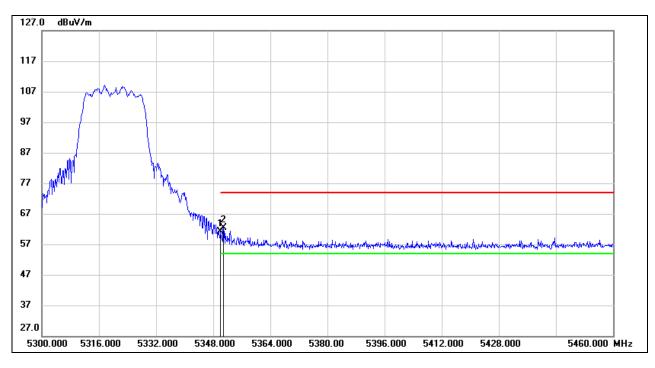
- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
- 4. For the transmitting duration, please refer to clause 7.1.
- 5. Only the worst data was recorded, if it complies with the limit, the other emissions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



UNII-2A BAND

RESTRICTED BANDEDGE (HIGH CHANNEL, VERTICAL)

PEAK

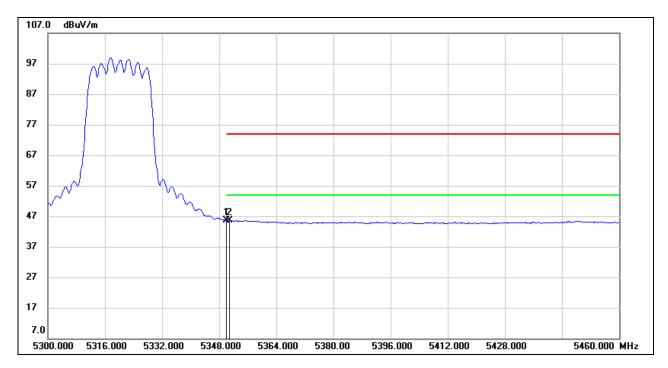


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5350.000	40.18	20.87	61.05	74.00	-12.95	peak
2	5350.880	41.45	20.88	62.33	74.00	-11.67	peak

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



AVG



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5350.000	24.86	20.87	45.73	54.00	-8.27	AVG
2	5350.880	24.70	20.88	45.58	54.00	-8.42	AVG

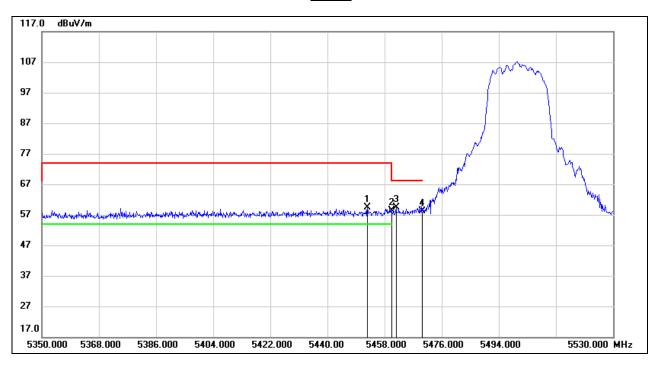
- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
- 4. For the transmitting duration, please refer to clause 7.1.
- 5. Only the worst data was recorded, if it complies with the limit, the other emissions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



UNII-2C BAND

RESTRICTED BANDEDGE (LOW CHANNEL, VERTICAL)

PEAK

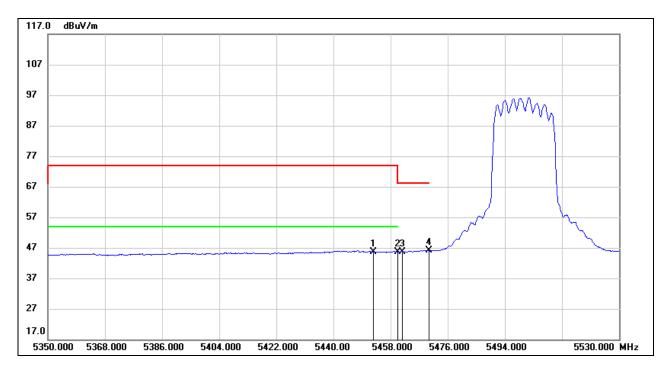


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5452.600	37.99	21.48	59.47	74.00	-14.53	peak
2	5460.000	36.80	21.52	58.32	68.20	-9.88	peak
3	5461.600	37.81	21.53	59.34	68.20	-8.86	peak
4	5470.000	36.43	21.58	58.01	68.20	-10.19	peak

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



AVG



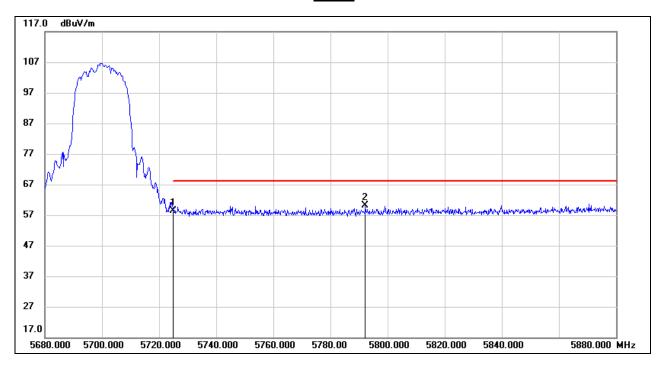
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5452.600	24.06	21.48	45.54	54.00	-8.46	AVG
2	5460.000	24.16	21.52	45.68	54.00	-8.32	AVG
3	5461.600	24.15	21.53	45.68	/	/	AVG
4	5470.000	24.58	21.58	46.16	/	/	AVG

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



RESTRICTED BANDEDGE (HIGH CHANNEL, VERTICAL)

PEAK



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5725.000	36.83	21.62	58.45	68.20	-9.75	peak
2	5792.200	38.26	21.95	60.21	68.20	-7.99	peak

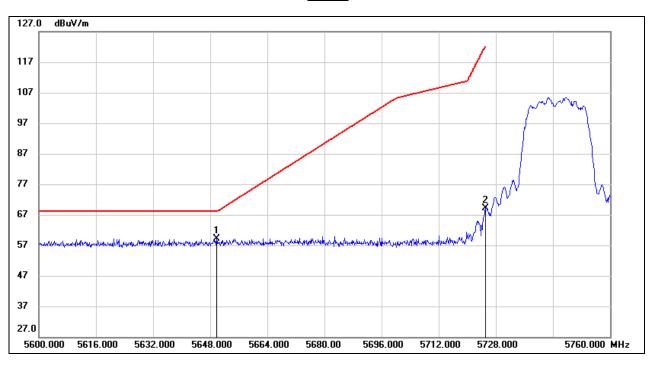
- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.



UNII-3 BAND

RESTRICTED BANDEDGE (LOW CHANNEL, VERTICAL)

PEAK



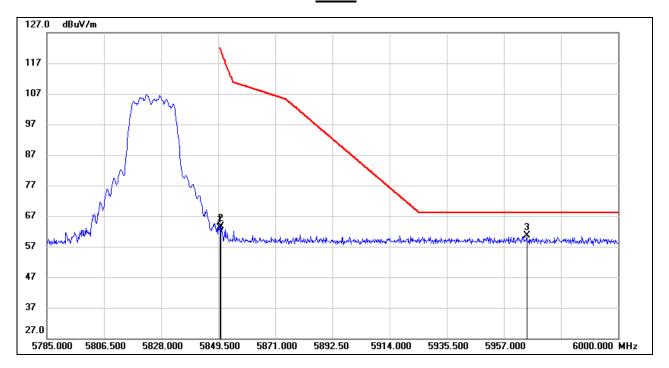
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5649.760	37.60	21.62	59.22	68.20	-8.98	peak
2	5725.000	47.42	21.62	69.04	122.20	-53.16	peak

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



RESTRICTED BANDEDGE (HIGH CHANNEL, VERTICAL)

PEAK



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5850.000	40.68	22.39	63.07	122.20	-59.13	peak
2	5850.360	41.12	22.40	63.52	121.38	-57.86	peak
3	5965.600	38.06	22.60	60.66	68.20	-7.54	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 data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

Note: All the polarities (Vertical & Horizontal) had been tested, only the worst data was recorded in the report.

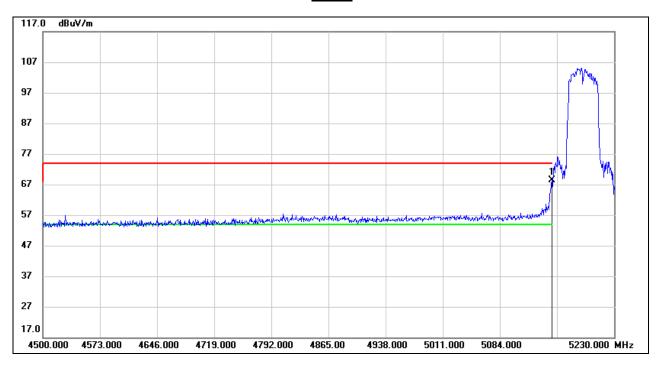


8.1.3. 802.11n HT40 MIMO MODE

UNII-1 BAND

RESTRICTED BANDEDGE (LOW CHANNEL, VERTICAL)

PEAK

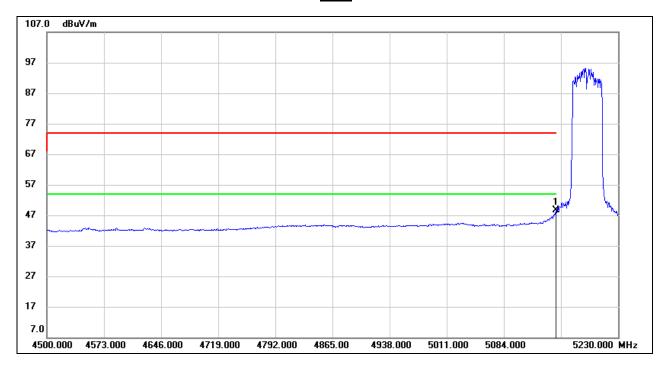


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5150.000	47.69	20.79	68.48	74.00	-5.52	peak

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







No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5150.000	27.79	20.79	48.58	54.00	-5.42	AVG

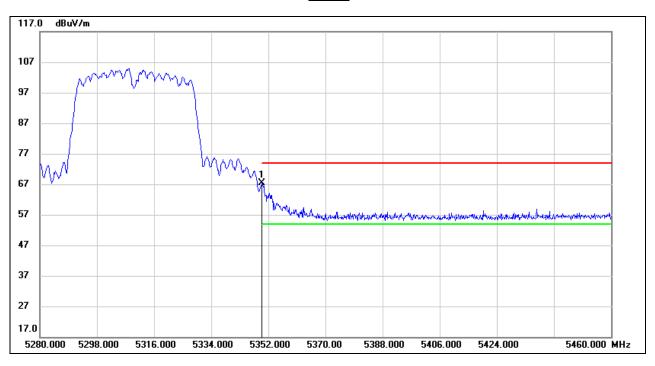
- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
- 4. For the transmitting duration, please refer to clause 7.1.
- 5. Only the worst data was recorded, if it complies with the limit, the other emissions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



UNII-2A BAND

RESTRICTED BANDEDGE (HIGH CHANNEL, VERTICAL)

PEAK

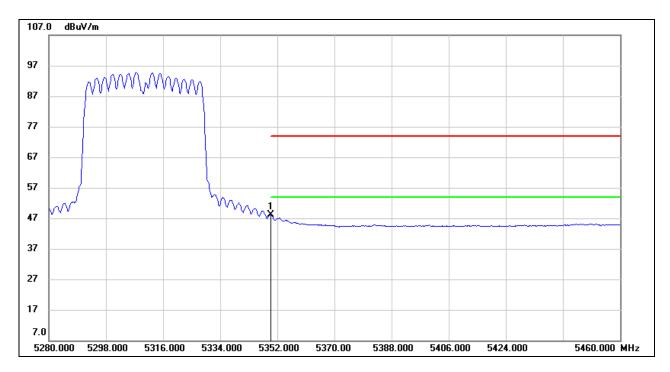


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5350.000	46.55	20.87	67.42	74.00	-6.58	peak

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



<u>AVG</u>



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5350.000	27.35	20.87	48.22	54.00	-5.78	AVG

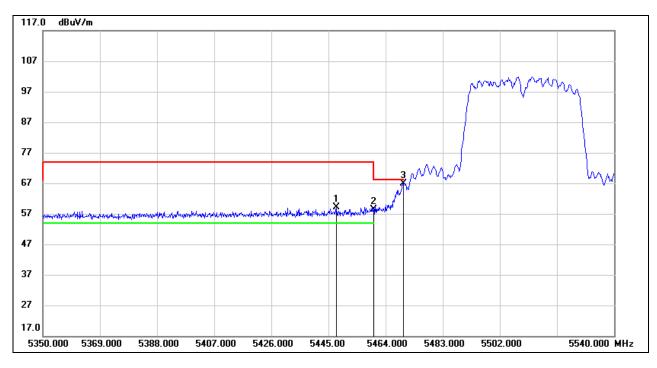
- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
- 4. For the transmitting duration, please refer to clause 7.1.
- 5. Only the worst data was recorded, if it complies with the limit, the other emissions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



UNII-2C BAND

RESTRICTED BANDEDGE (LOW CHANNEL, VERTICAL)

PEAK

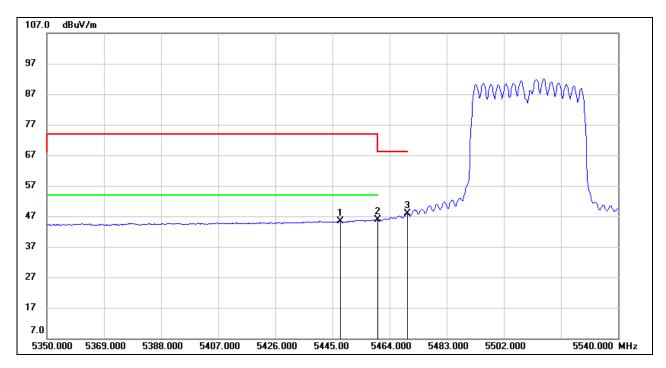


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5447.660	37.65	21.45	59.10	74.00	-14.90	peak
2	5460.000	36.79	21.52	58.31	68.20	-9.89	peak
3	5470.000	45.36	21.58	66.94	68.20	-1.26	peak

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



AVG



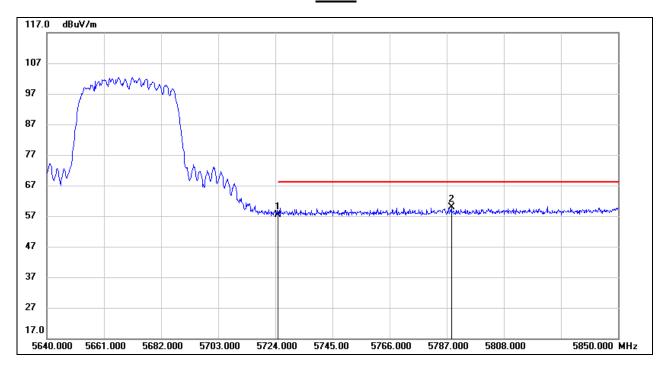
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5447.660	23.82	21.45	45.27	54.00	-8.73	AVG
2	5460.000	24.29	21.52	45.81	54.00	-8.19	AVG
3	5470.000	26.27	21.58	47.85	/	/	AVG

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



RESTRICTED BANDEDGE (HIGH CHANNEL, VERTICAL)

PEAK



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5725.000	35.71	21.62	57.33	68.20	-10.87	peak
2	5788.680	37.84	21.94	59.78	68.20	-8.42	peak

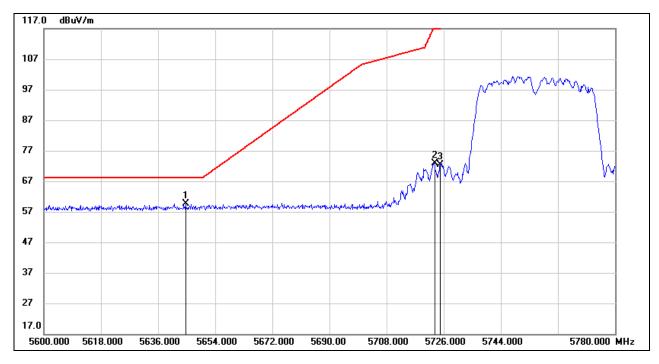
- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.



UNII-3 BAND

RESTRICTED BANDEDGE (LOW CHANNEL, VERTICAL)

PEAK



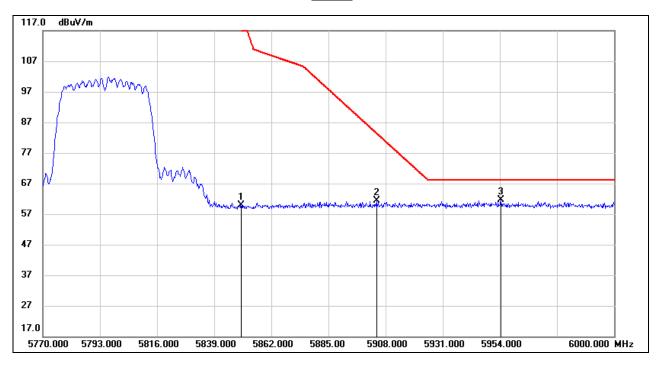
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5644.640	38.12	21.63	59.75	68.20	-8.45	peak
2	5723.120	51.22	21.61	72.83	117.91	-45.08	peak
3	5725.000	50.64	21.62	72.26	122.20	-49.94	peak

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



RESTRICTED BANDEDGE (HIGH CHANNEL, VERTICAL)

PEAK



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5850.000	37.60	22.39	59.99	122.20	-62.21	peak
2	5904.320	38.58	22.78	61.36	83.47	-22.11	peak
3	5954.460	38.95	22.64	61.59	68.20	-6.61	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. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

Note: All the polarities (Vertical & Horizontal) had been tested, only the worst data was recorded in the report.



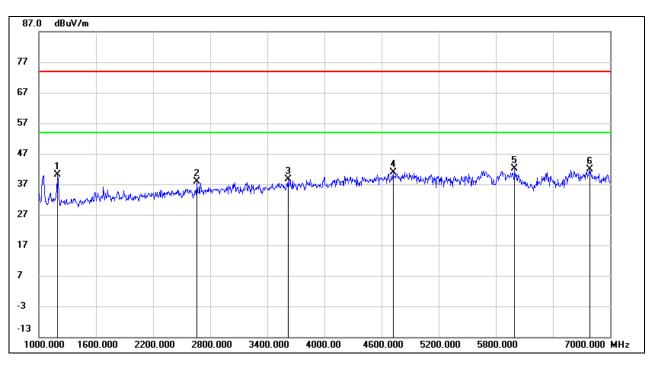
8.2. SPURIOUS EMISSIONS (1 GHz ~ 7 GHz)

8.2.1. 802.11a SISO MODE

UNII-1 BAND

ANTENNA 1 TEST RESULTS (WORST CASE)

HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, HORIZONTAL)

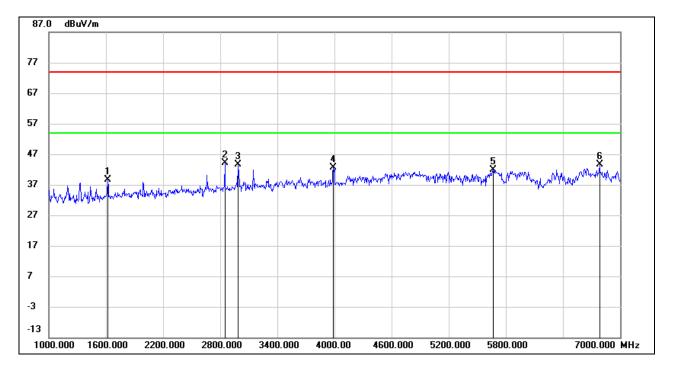


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1198.000	53.07	-13.00	40.07	74.00	-33.93	peak
2	2662.000	45.33	-7.46	37.87	74.00	-36.13	peak
3	3616.000	42.76	-4.12	38.64	74.00	-35.36	peak
4	4720.000	40.86	0.12	40.98	74.00	-33.02	peak
5	5998.000	38.79	3.30	42.09	74.00	-31.91	peak
6	6784.000	36.43	5.56	41.99	74.00	-32.01	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band reject filter losses.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.
- 6. Owing to the highest peak level of unwanted emission out of the restricted bands are lower than the line(54dBuV/m) in the graph, so all the peak test point was deemed to comply with the limits -27dBm/MHz (68.2dBuV/m) list in the standard CFR 47 FCC §15.407 (b) and ISED RSS-247 6.2.



HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, VERTICAL)

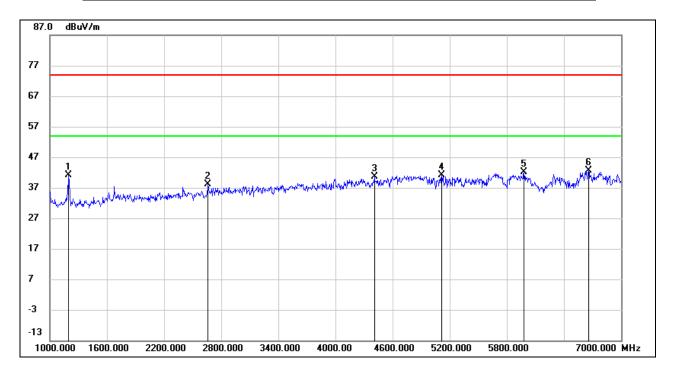


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1618.000	50.00	-11.42	38.58	74.00	-35.42	peak
2	2848.000	50.58	-6.33	44.25	74.00	-29.75	peak
3	2986.000	49.38	-5.65	43.73	74.00	-30.27	peak
4	3988.000	46.18	-3.59	42.59	74.00	-31.41	peak
5	5668.000	39.53	2.47	42.00	74.00	-32.00	peak
6	6784.000	37.95	5.56	43.51	74.00	-30.49	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band reject filter losses.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.
- 6. Owing to the highest peak level of unwanted emission out of the restricted bands are lower than the line(54dBuV/m) in the graph, so all the peak test point was deemed to comply with the limits -27dBm/MHz (68.2dBuV/m) list in the standard CFR 47 FCC §15.407 (b) and ISED RSS-247 6.2.



HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, HORIZONTAL)

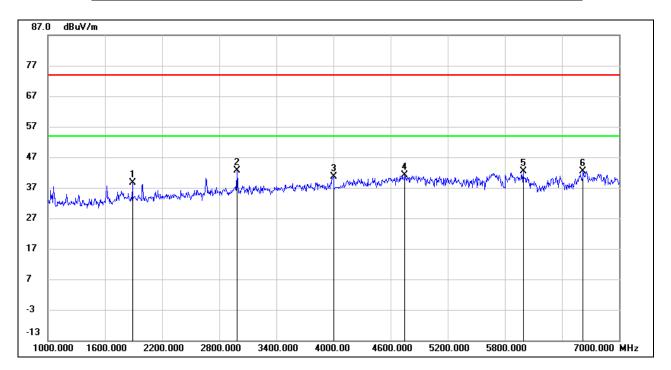


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1198.000	54.08	-13.00	41.08	74.00	-32.92	peak
2	2662.000	45.63	-7.46	38.17	74.00	-35.83	peak
3	4408.000	42.54	-1.82	40.72	74.00	-33.28	peak
4	5116.000	39.42	1.60	41.02	74.00	-32.98	peak
5	5980.000	38.81	3.22	42.03	74.00	-31.97	peak
6	6658.000	37.08	5.51	42.59	74.00	-31.41	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band reject filter losses.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.
- 6. Owing to the highest peak level of unwanted emission out of the restricted bands are lower than the line(54dBuV/m) in the graph, so all the peak test point was deemed to comply with the limits -27dBm/MHz (68.2dBuV/m) list in the standard CFR 47 FCC §15.407 (b) and ISED RSS-247 6.2.



HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, VERTICAL)

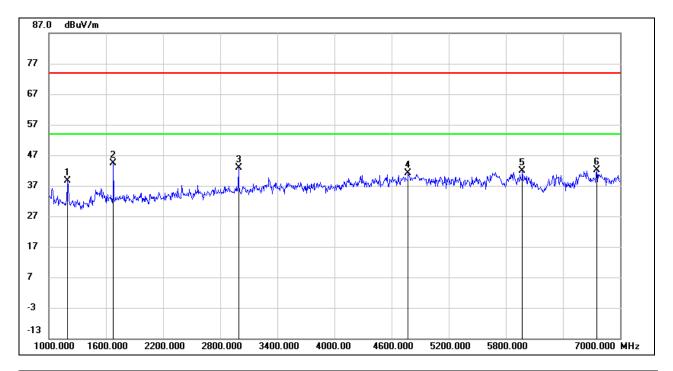


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1888.000	48.67	-10.12	38.55	74.00	-35.45	peak
2	2986.000	48.19	-5.65	42.54	74.00	-31.46	peak
3	4000.000	44.26	-3.61	40.65	74.00	-33.35	peak
4	4750.000	40.82	0.30	41.12	74.00	-32.88	peak
5	5992.000	39.01	3.27	42.28	74.00	-31.72	peak
6	6622.000	36.99	5.51	42.50	74.00	-31.50	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.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.
- 6. Owing to the highest peak level of unwanted emission out of the restricted bands are lower than the line(54dBuV/m) in the graph, so all the peak test point was deemed to comply with the limits -27dBm/MHz (68.2dBuV/m) list in the standard CFR 47 FCC §15.407 (b) and ISED RSS-247 6.2.



HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, HORIZONTAL)

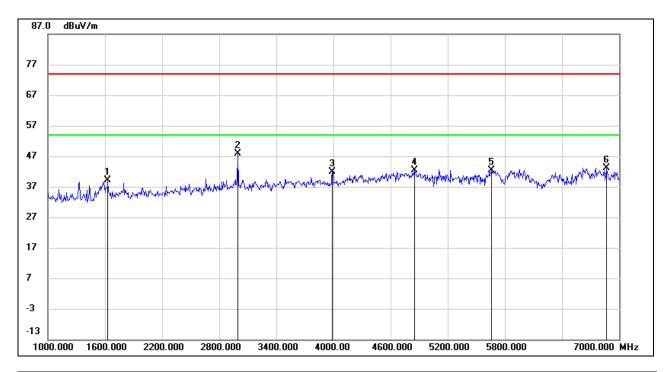


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1198.000	51.63	-13.00	38.63	74.00	-35.37	peak
2	1678.000	55.41	-10.96	44.45	74.00	-29.55	peak
3	2992.000	48.40	-5.63	42.77	74.00	-31.23	peak
4	4774.000	40.65	0.43	41.08	74.00	-32.92	peak
5	5974.000	38.65	3.20	41.85	74.00	-32.15	peak
6	6754.000	36.47	5.56	42.03	74.00	-31.97	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band reject filter losses.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.
- 6. Owing to the highest peak level of unwanted emission out of the restricted bands are lower than the line(54dBuV/m) in the graph, so all the peak test point was deemed to comply with the limits -27dBm/MHz (68.2dBuV/m) list in the standard CFR 47 FCC §15.407 (b) and ISED RSS-247 6.2.



HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, VERTICAL)



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1630.000	50.42	-11.33	39.09	74.00	-34.91	peak
2	2998.000	53.58	-5.60	47.98	74.00	-26.02	peak
3	3988.000	45.36	-3.59	41.77	74.00	-32.23	peak
4	4852.000	41.72	0.67	42.39	74.00	-31.61	peak
5	5662.000	39.89	2.47	42.36	74.00	-31.64	peak
6	6868.000	37.47	5.76	43.23	74.00	-30.77	peak

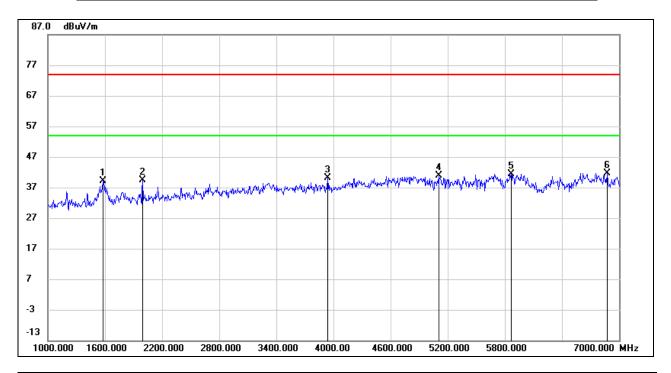
- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band reject filter losses.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.
- 6. Owing to the highest peak level of unwanted emission out of the restricted bands are lower than the line(54dBuV/m) in the graph, so all the peak test point was deemed to comply with the limits -27dBm/MHz (68.2dBuV/m) list in the standard CFR 47 FCC §15.407 (b) and ISED RSS-247 6.2.



UNII-2A BAND

ANTENNA 1 TEST RESULTS (WORST CASE)

HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, HORIZONTAL)

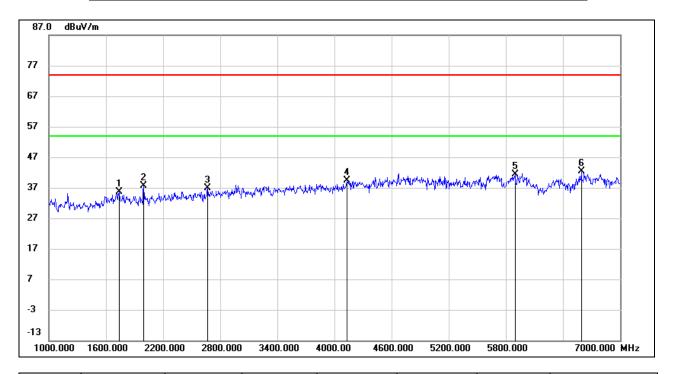


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1582.000	50.91	-11.68	39.23	74.00	-34.77	peak
2	1996.000	49.51	-10.19	39.32	74.00	-34.68	peak
3	3940.000	43.55	-3.51	40.04	74.00	-33.96	peak
4	5110.000	39.21	1.55	40.76	74.00	-33.24	peak
5	5866.000	38.70	2.77	41.47	74.00	-32.53	peak
6	6874.000	35.90	5.78	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.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.
- 6. Owing to the highest peak level of unwanted emission out of the restricted bands are lower than the line(54dBuV/m) in the graph, so all the peak test point was deemed to comply with the limits -27dBm/MHz (68.2dBuV/m) list in the standard CFR 47 FCC §15.407 (b) and ISED RSS-247 6.2.



HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, VERTICAL)

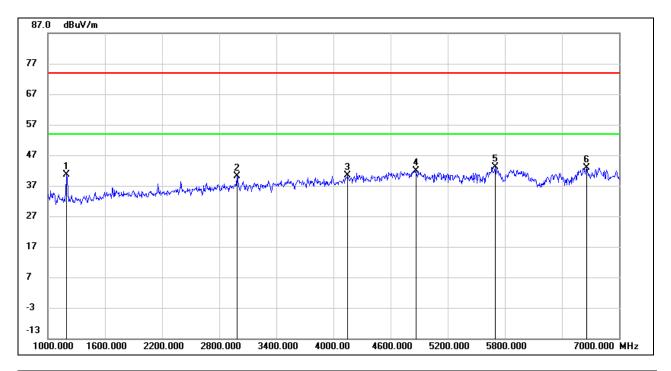


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1738.000	46.17	-10.51	35.66	74.00	-38.34	peak
2	1996.000	47.77	-10.19	37.58	74.00	-36.42	peak
3	2668.000	44.35	-7.42	36.93	74.00	-37.07	peak
4	4132.000	41.73	-2.33	39.40	74.00	-34.60	peak
5	5896.000	38.43	2.90	41.33	74.00	-32.67	peak
6	6592.000	36.82	5.45	42.27	74.00	-31.73	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band reject filter losses.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.
- 6. Owing to the highest peak level of unwanted emission out of the restricted bands are lower than the line(54dBuV/m) in the graph, so all the peak test point was deemed to comply with the limits -27dBm/MHz (68.2dBuV/m) list in the standard CFR 47 FCC §15.407 (b) and ISED RSS-247 6.2.



HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, HORIZONTAL)

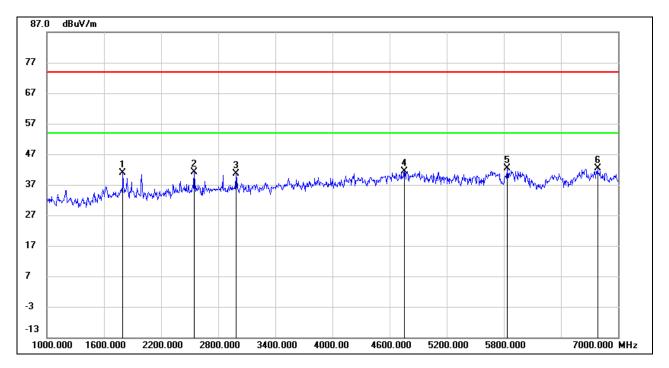


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1198.000	53.66	-13.00	40.66	74.00	-33.34	peak
2	2986.000	45.82	-5.65	40.17	74.00	-33.83	peak
3	4144.000	42.49	-2.21	40.28	74.00	-33.72	peak
4	4864.000	41.30	0.69	41.99	74.00	-32.01	peak
5	5698.000	40.76	2.49	43.25	74.00	-30.75	peak
6	6658.000	37.31	5.51	42.82	74.00	-31.18	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band reject filter losses.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.
- 6. Owing to the highest peak level of unwanted emission out of the restricted bands are lower than the line(54dBuV/m) in the graph, so all the peak test point was deemed to comply with the limits -27dBm/MHz (68.2dBuV/m) list in the standard CFR 47 FCC §15.407 (b) and ISED RSS-247 6.2.



HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, VERTICAL)

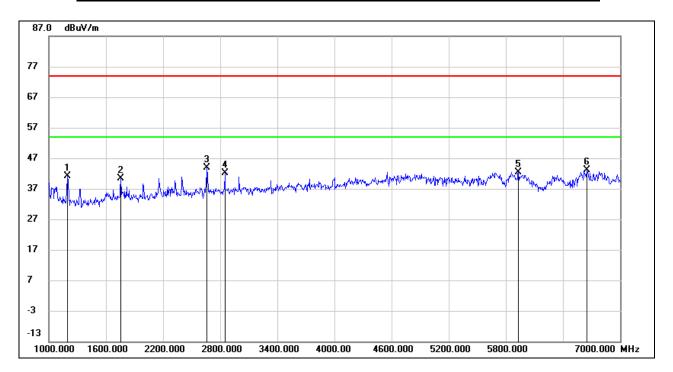


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1798.000	50.92	-10.07	40.85	74.00	-33.15	peak
2	2548.000	49.18	-8.05	41.13	74.00	-32.87	peak
3	2986.000	46.29	-5.65	40.64	74.00	-33.36	peak
4	4756.000	41.15	0.33	41.48	74.00	-32.52	peak
5	5836.000	39.65	2.65	42.30	74.00	-31.70	peak
6	6784.000	36.83	5.56	42.39	74.00	-31.61	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band reject filter losses.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.
- 6. Owing to the highest peak level of unwanted emission out of the restricted bands are lower than the line(54dBuV/m) in the graph, so all the peak test point was deemed to comply with the limits -27dBm/MHz (68.2dBuV/m) list in the standard CFR 47 FCC §15.407 (b) and ISED RSS-247 6.2.



HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, HORIZONTAL)

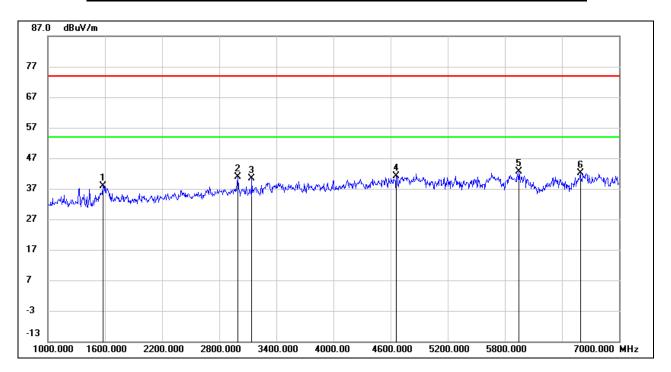


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1198.000	54.04	-13.00	41.04	74.00	-32.96	peak
2	1756.000	50.84	-10.38	40.46	74.00	-33.54	peak
3	2662.000	51.31	-7.46	43.85	74.00	-30.15	peak
4	2848.000	48.44	-6.33	42.11	74.00	-31.89	peak
5	5932.000	39.28	3.03	42.31	74.00	-31.69	peak
6	6652.000	37.64	5.52	43.16	74.00	-30.84	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band reject filter losses.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.
- 6. Owing to the highest peak level of unwanted emission out of the restricted bands are lower than the line(54dBuV/m) in the graph, so all the peak test point was deemed to comply with the limits -27dBm/MHz (68.2dBuV/m) list in the standard CFR 47 FCC §15.407 (b) and ISED RSS-247 6.2.



HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, VERTICAL)



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1582.000	49.50	-11.68	37.82	74.00	-36.18	peak
2	2998.000	46.45	-5.60	40.85	74.00	-33.15	peak
3	3142.000	45.69	-5.36	40.33	74.00	-33.67	peak
4	4660.000	41.42	-0.22	41.20	74.00	-32.80	peak
5	5950.000	39.60	3.10	42.70	74.00	-31.30	peak
6	6592.000	36.56	5.45	42.01	74.00	-31.99	peak

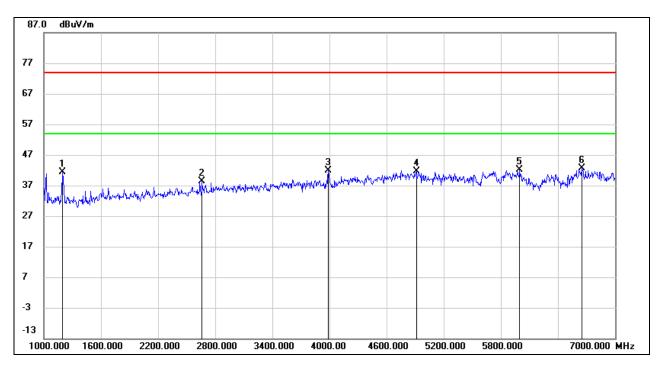
- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band reject filter losses.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.
- 6. Owing to the highest peak level of unwanted emission out of the restricted bands are lower than the line(54dBuV/m) in the graph, so all the peak test point was deemed to comply with the limits -27dBm/MHz (68.2dBuV/m) list in the standard CFR 47 FCC §15.407 (b) and ISED RSS-247 6.2.



UNII-2C BAND

<u>ANTENNA 1 TEST RESULTS (WORST CASE)</u>

HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, HORIZONTAL)

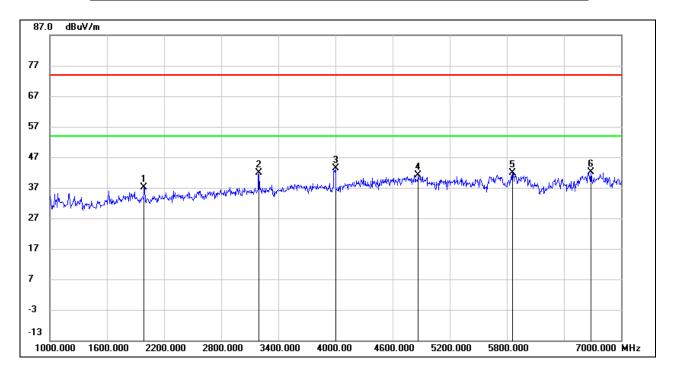


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1198.000	54.43	-13.00	41.43	74.00	-32.57	peak
2	2662.000	45.83	-7.46	38.37	74.00	-35.63	peak
3	3988.000	45.54	-3.59	41.95	74.00	-32.05	peak
4	4912.000	40.88	0.77	41.65	74.00	-32.35	peak
5	5998.000	38.92	3.30	42.22	74.00	-31.78	peak
6	6652.000	37.13	5.52	42.65	74.00	-31.35	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band reject filter losses.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.
- 6. Owing to the highest peak level of unwanted emission out of the restricted bands are lower than the line(54dBuV/m) in the graph, so all the peak test point was deemed to comply with the limits -27dBm/MHz (68.2dBuV/m) list in the standard CFR 47 FCC §15.407 (b) and ISED RSS-247 6.2.



HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, VERTICAL)

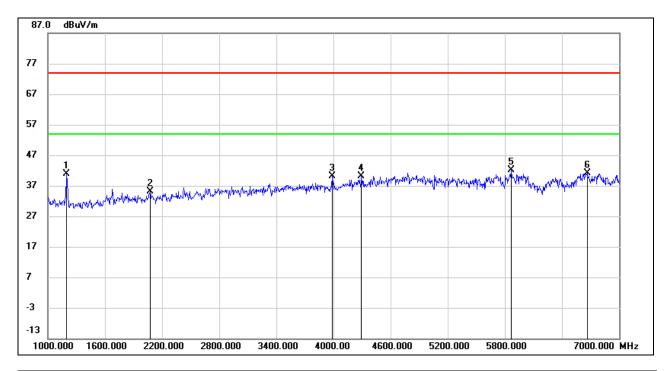


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1990.000	47.41	-10.19	37.22	74.00	-36.78	peak
2	3196.000	47.01	-5.25	41.76	74.00	-32.24	peak
3	4000.000	46.90	-3.61	43.29	74.00	-30.71	peak
4	4870.000	40.35	0.69	41.04	74.00	-32.96	peak
5	5860.000	39.21	2.75	41.96	74.00	-32.04	peak
6	6682.000	36.49	5.54	42.03	74.00	-31.97	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band reject filter losses.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.
- 6. Owing to the highest peak level of unwanted emission out of the restricted bands are lower than the line(54dBuV/m) in the graph, so all the peak test point was deemed to comply with the limits -27dBm/MHz (68.2dBuV/m) list in the standard CFR 47 FCC §15.407 (b) and ISED RSS-247 6.2.



HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, HORIZONTAL)

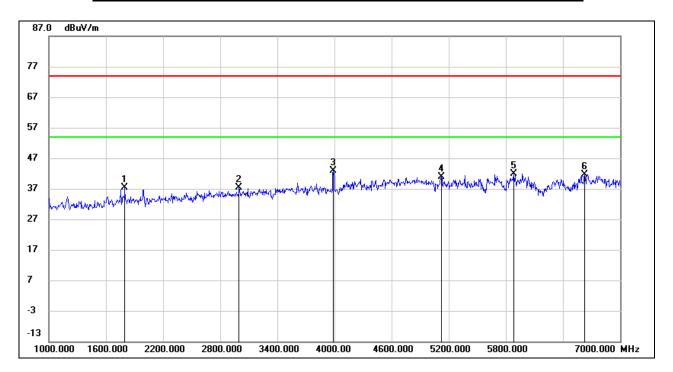


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1198.000	53.82	-13.00	40.82	74.00	-33.18	peak
2	2074.000	45.00	-9.77	35.23	74.00	-38.77	peak
3	3988.000	43.70	-3.59	40.11	74.00	-33.89	peak
4	4294.000	41.93	-1.76	40.17	74.00	-33.83	peak
5	5866.000	39.28	2.77	42.05	74.00	-31.95	peak
6	6664.000	35.55	5.53	41.08	74.00	-32.92	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 Band reject filter losses.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.
- 6. Owing to the highest peak level of unwanted emission out of the restricted bands are lower than the line(54dBuV/m) in the graph, so all the peak test point was deemed to comply with the limits -27dBm/MHz (68.2dBuV/m) list in the standard CFR 47 FCC §15.407 (b) and ISED RSS-247 6.2.



HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, VERTICAL)

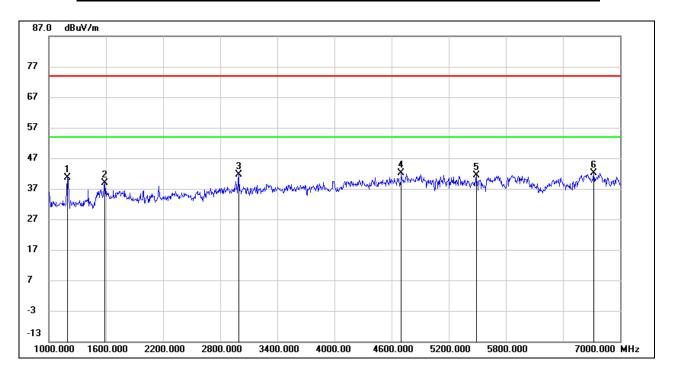


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1798.000	47.43	-10.07	37.36	74.00	-36.64	peak
2	2998.000	42.87	-5.60	37.27	74.00	-36.73	peak
3	3988.000	46.53	-3.59	42.94	74.00	-31.06	peak
4	5122.000	39.27	1.64	40.91	74.00	-33.09	peak
5	5884.000	39.10	2.84	41.94	74.00	-32.06	peak
6	6628.000	36.20	5.50	41.70	74.00	-32.30	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band reject filter losses.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.
- 6. Owing to the highest peak level of unwanted emission out of the restricted bands are lower than the line(54dBuV/m) in the graph, so all the peak test point was deemed to comply with the limits -27dBm/MHz (68.2dBuV/m) list in the standard CFR 47 FCC §15.407 (b) and ISED RSS-247 6.2.



HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, HORIZONTAL)

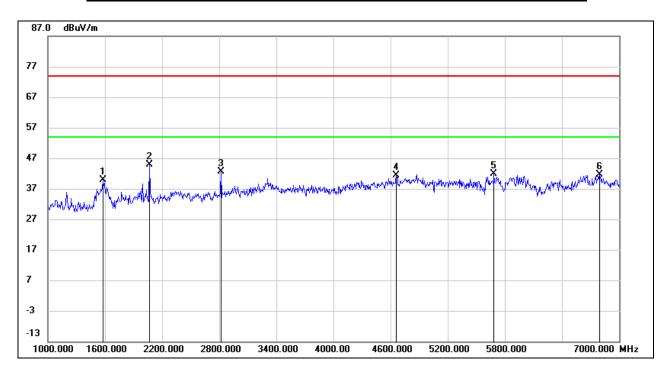


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1198.000	53.56	-13.00	40.56	74.00	-33.44	peak
2	1588.000	50.47	-11.64	38.83	74.00	-35.17	peak
3	2992.000	47.38	-5.63	41.75	74.00	-32.25	peak
4	4702.000	42.08	0.01	42.09	74.00	-31.91	peak
5	5488.000	39.16	2.13	41.29	74.00	-32.71	peak
6	6724.000	36.69	5.54	42.23	74.00	-31.77	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band reject filter losses.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.
- 6. Owing to the highest peak level of unwanted emission out of the restricted bands are lower than the line(54dBuV/m) in the graph, so all the peak test point was deemed to comply with the limits -27dBm/MHz (68.2dBuV/m) list in the standard CFR 47 FCC §15.407 (b) and ISED RSS-247 6.2.



HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, VERTICAL)



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1576.000	51.51	-11.72	39.79	74.00	-34.21	peak
2	2068.000	54.68	-9.80	44.88	74.00	-29.12	peak
3	2818.000	49.08	-6.47	42.61	74.00	-31.39	peak
4	4660.000	41.66	-0.22	41.44	74.00	-32.56	peak
5	5686.000	39.29	2.47	41.76	74.00	-32.24	peak
6	6796.000	36.10	5.57	41.67	74.00	-32.33	peak

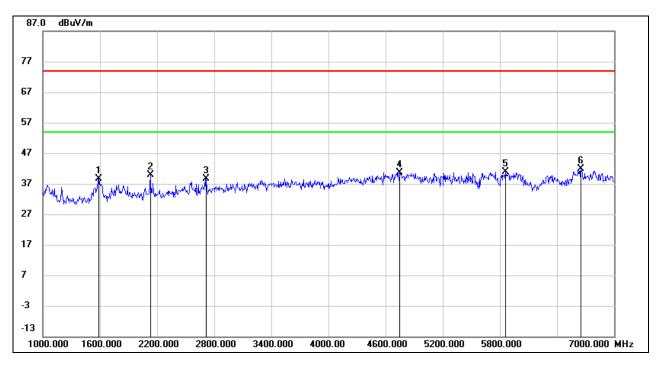
- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band reject filter losses.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.
- 6. Owing to the highest peak level of unwanted emission out of the restricted bands are lower than the line(54dBuV/m) in the graph, so all the peak test point was deemed to comply with the limits -27dBm/MHz (68.2dBuV/m) list in the standard CFR 47 FCC §15.407 (b) and ISED RSS-247 6.2.



STRADDLE CHANNEL 144

ANTENNA 1 TEST RESULTS (WORST CASE)

HARMONICS AND SPURIOUS EMISSIONS (HORIZONTAL)

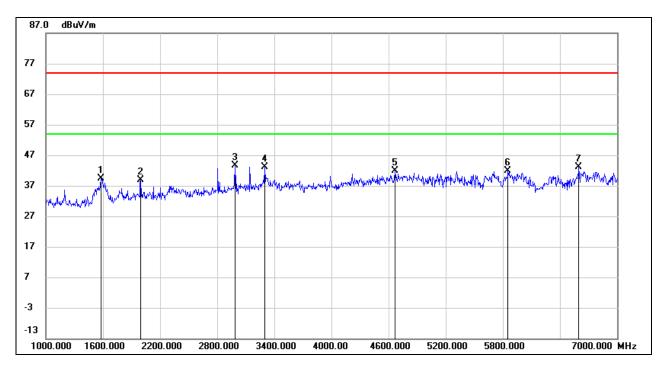


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1588.000	50.31	-11.64	38.67	74.00	-35.33	peak
2	2128.000	49.30	-9.46	39.84	74.00	-34.16	peak
3	2716.000	45.65	-7.10	38.55	74.00	-35.45	peak
4	4750.000	40.44	0.30	40.74	74.00	-33.26	peak
5	5860.000	38.18	2.75	40.93	74.00	-33.07	peak
6	6652.000	36.34	5.52	41.86	74.00	-32.14	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
- 5. For the transmitting duration, please refer to clause 7.1.
- 6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band reject filter losses.
 - 7. Proper operation of the transmitter prior to adding the filter to the measurement chain.
- 8. Owing to the highest peak level of unwanted emission out of the restricted bands are lower than the line(54dBuV/m) in the graph, so all the peak test point was deemed to comply with the limits -27dBm/MHz (68.2dBuV/m) list in the standard CFR 47 FCC §15.407 (b) and ISED RSS-247 6.2.



HARMONICS AND SPURIOUS EMISSIONS (VERTICAL)



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1576.000	51.10	-11.72	39.38	74.00	-34.62	peak
2	1996.000	49.10	-10.19	38.91	74.00	-35.09	peak
3	2986.000	49.33	-5.65	43.68	74.00	-30.32	peak
4	3298.000	48.38	-5.18	43.20	74.00	-30.80	peak
5	4666.000	41.94	-0.17	41.77	74.00	-32.23	peak
6	5854.000	39.06	2.71	41.77	74.00	-32.23	peak
7	6598.000	37.57	5.49	43.06	74.00	-30.94	peak

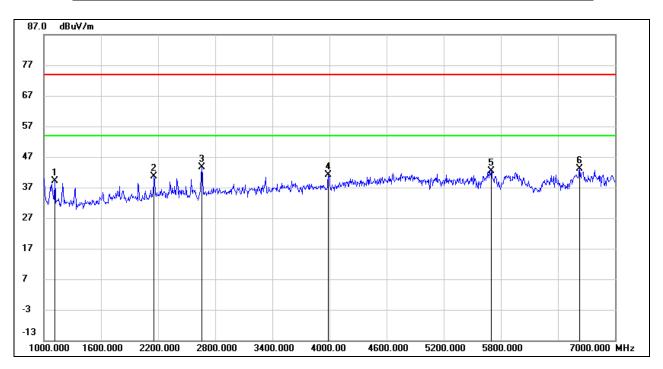
- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
- 5. For the transmitting duration, please refer to clause 7.1.
- 6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band reject filter losses.
 - 7. Proper operation of the transmitter prior to adding the filter to the measurement chain.
- 8. Owing to the highest peak level of unwanted emission out of the restricted bands are lower than the line(54dBuV/m) in the graph, so all the peak test point was deemed to comply with the limits -27dBm/MHz (68.2dBuV/m) list in the standard CFR 47 FCC §15.407 (b) and ISED RSS-247 6.2.



UNII-3 BAND

<u>ANTENNA 1 TEST RESULTS (WORST CASE)</u>

HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, HORIZONTAL)

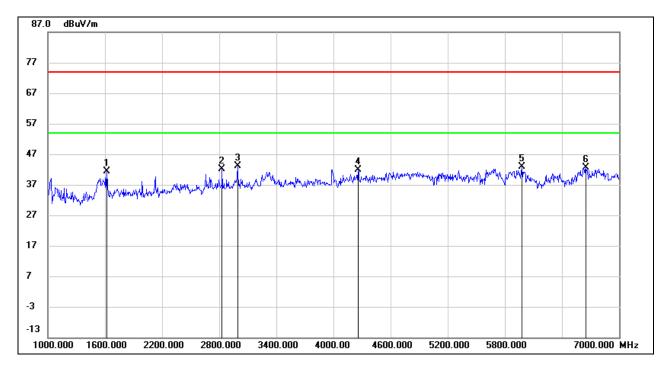


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1114.000	52.45	-13.41	39.04	74.00	-34.96	peak
2	2158.000	49.93	-9.29	40.64	74.00	-33.36	peak
3	2662.000	51.07	-7.46	43.61	74.00	-30.39	peak
4	3988.000	44.70	-3.59	41.11	74.00	-32.89	peak
5	5698.000	39.94	2.49	42.43	74.00	-31.57	peak
6	6628.000	37.61	5.50	43.11	74.00	-30.89	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.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.
- 6. Owing to the highest peak level of unwanted emission out of the restricted bands are lower than the line(54dBuV/m) in the graph, so all the peak test point was deemed to comply with the limits -27dBm/MHz (68.2dBuV/m) list in the standard CFR 47 FCC §15.407 (b) and ISED RSS-247 6.2.



HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, VERTICAL)

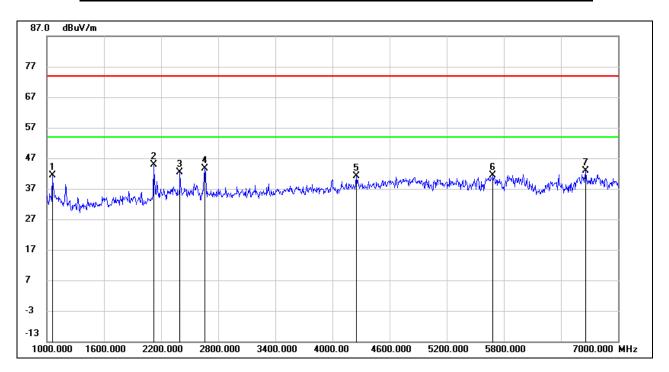


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1618.000	52.88	-11.42	41.46	74.00	-32.54	peak
2	2830.000	48.64	-6.40	42.24	74.00	-31.76	peak
3	2992.000	48.87	-5.63	43.24	74.00	-30.76	peak
4	4258.000	43.69	-1.73	41.96	74.00	-32.04	peak
5	5980.000	39.61	3.22	42.83	74.00	-31.17	peak
6	6652.000	37.06	5.52	42.58	74.00	-31.42	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band reject filter losses.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.
- 6. Owing to the highest peak level of unwanted emission out of the restricted bands are lower than the line(54dBuV/m) in the graph, so all the peak test point was deemed to comply with the limits -27dBm/MHz (68.2dBuV/m) list in the standard CFR 47 FCC §15.407 (b) and ISED RSS-247 6.2.



HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, HORIZONTAL)

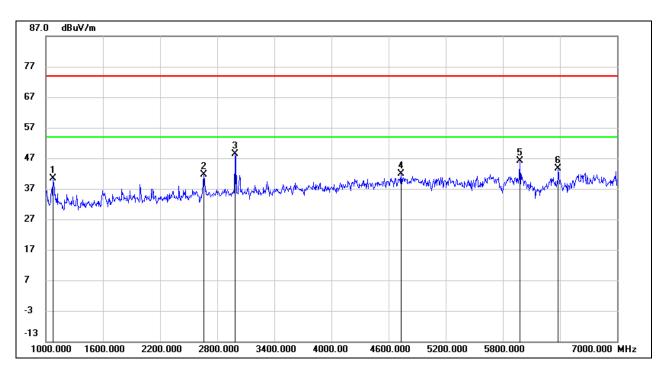


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1060.000	55.02	-13.68	41.34	74.00	-32.66	peak
2	2122.000	54.48	-9.49	44.99	74.00	-29.01	peak
3	2398.000	50.74	-8.40	42.34	74.00	-31.66	peak
4	2662.000	51.15	-7.46	43.69	74.00	-30.31	peak
5	4252.000	42.75	-1.73	41.02	74.00	-32.98	peak
6	5686.000	38.82	2.47	41.29	74.00	-32.71	peak
7	6658.000	37.40	5.51	42.91	74.00	-31.09	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band reject filter losses.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.
- 6. Owing to the highest peak level of unwanted emission out of the restricted bands are lower than the line(54dBuV/m) in the graph, so all the peak test point was deemed to comply with the limits -27dBm/MHz (68.2dBuV/m) list in the standard CFR 47 FCC §15.407 (b) and ISED RSS-247 6.2.



HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, VERTICAL)

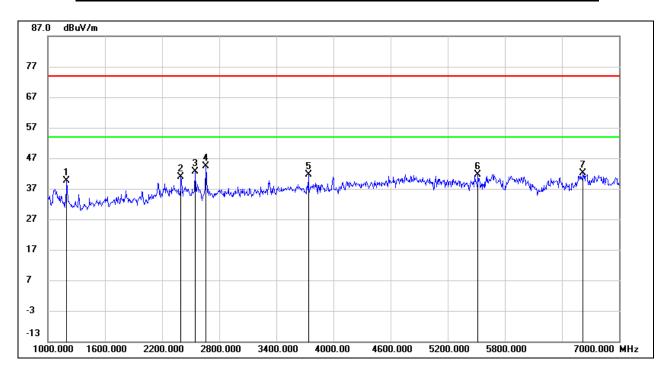


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1072.000	53.89	-13.63	40.26	74.00	-33.74	peak
2	2656.000	49.20	-7.50	41.70	74.00	-32.30	peak
3	2986.000	54.05	-5.65	48.40	74.00	-25.60	peak
4	4732.000	41.59	0.20	41.79	74.00	-32.21	peak
5	5980.000	43.02	3.22	46.24	74.00	-27.76	peak
6	6382.000	39.30	4.27	43.57	74.00	-30.43	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.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.
- 6. Owing to the highest peak level of unwanted emission out of the restricted bands are lower than the line(54dBuV/m) in the graph, so all the peak test point was deemed to comply with the limits -27dBm/MHz (68.2dBuV/m) list in the standard CFR 47 FCC §15.407 (b) and ISED RSS-247 6.2.



HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, HORIZONTAL)

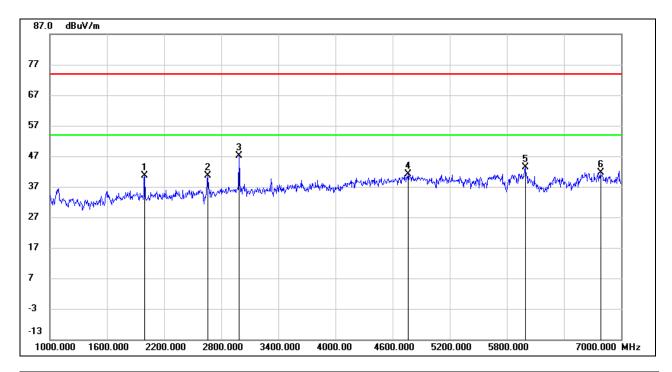


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1198.000	52.52	-13.00	39.52	74.00	-34.48	peak
2	2398.000	49.32	-8.40	40.92	74.00	-33.08	peak
3	2548.000	50.60	-8.05	42.55	74.00	-31.45	peak
4	2662.000	51.73	-7.46	44.27	74.00	-29.73	peak
5	3736.000	45.29	-3.56	41.73	74.00	-32.27	peak
6	5518.000	39.44	2.22	41.66	74.00	-32.34	peak
7	6622.000	36.58	5.51	42.09	74.00	-31.91	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band reject filter losses.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.
- 6. Owing to the highest peak level of unwanted emission out of the restricted bands are lower than the line(54dBuV/m) in the graph, so all the peak test point was deemed to comply with the limits -27dBm/MHz (68.2dBuV/m) list in the standard CFR 47 FCC §15.407 (b) and ISED RSS-247 6.2.



HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, VERTICAL)



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1996.000	50.75	-10.19	40.56	74.00	-33.44	peak
2	2662.000	48.21	-7.46	40.75	74.00	-33.25	peak
3	2986.000	52.83	-5.65	47.18	74.00	-26.82	peak
4	4762.000	40.82	0.38	41.20	74.00	-32.80	peak
5	5992.000	40.04	3.27	43.31	74.00	-30.69	peak
6	6784.000	36.13	5.56	41.69	74.00	-32.31	peak

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

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band reject filter losses.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.
- 6. Owing to the highest peak level of unwanted emission out of the restricted bands are lower than the line(54dBuV/m) in the graph, so all the peak test point was deemed to comply with the limits -27dBm/MHz (68.2dBuV/m) list in the standard CFR 47 FCC §15.407 (b) and ISED RSS-247 6.2.

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



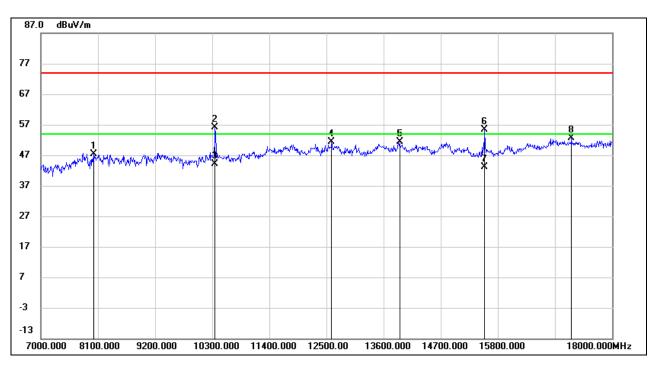
8.3. SPURIOUS EMISSIONS (7 GHz ~ 18 GHz)

8.3.1. 802.11a SISO MODE

UNII-1 BAND

ANTENNA 1 TEST RESULTS (WORST CASE)

HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, HORIZONTAL)

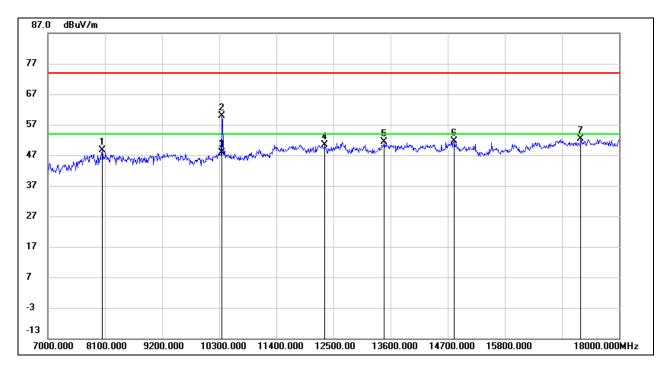


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	8012.000	38.49	8.82	47.31	74.00	-26.69	peak
2	10355.000	43.97	12.04	56.01	68.20	-12.19	peak
3	10355.000	32.12	12.04	44.16	/	/	AVG
4	12599.000	35.62	15.78	51.40	74.00	-22.60	peak
5	13908.000	33.73	17.54	51.27	74.00	-22.73	peak
6	15547.000	38.14	17.36	55.50	74.00	-18.50	peak
7	15547.000	25.86	17.36	43.22	54.00	-10.78	AVG
8	17219.000	30.49	22.11	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.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.
- 6. Owing to the highest peak level of unwanted emission out of the restricted bands are lower than the line(54dBuV/m) in the graph, so all the peak test point was deemed to comply with the limits -27dBm/MHz (68.2dBuV/m) list in the standard CFR 47 FCC §15.407 (b) and ISED RSS-247 6.2.



HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, VERTICAL)

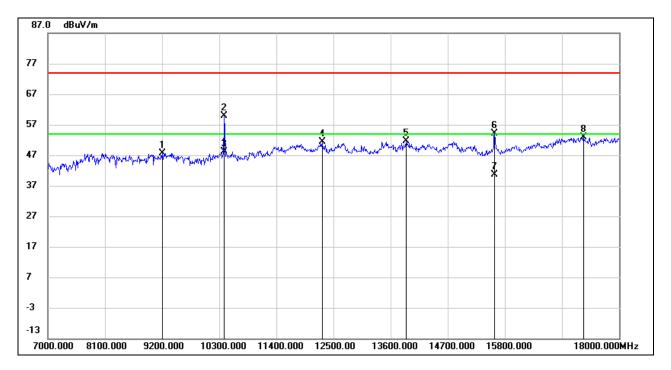


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	8045.000	39.20	9.33	48.53	74.00	-25.47	peak
2	10355.000	47.80	12.04	59.84	68.20	-8.36	peak
3	10355.000	35.93	12.04	47.97	/	/	AVG
4	12335.000	34.39	16.04	50.43	74.00	-23.57	peak
5	13479.000	34.16	17.17	51.33	74.00	-22.67	peak
6	14821.000	33.68	17.90	51.58	74.00	-22.42	peak
7	17263.000	30.09	22.38	52.47	74.00	-21.53	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.
- 6. Owing to the highest peak level of unwanted emission out of the restricted bands are lower than the line(54dBuV/m) in the graph, so all the peak test point was deemed to comply with the limits -27dBm/MHz (68.2dBuV/m) list in the standard CFR 47 FCC §15.407 (b) and ISED RSS-247 6.2.



HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, HORIZONTAL)

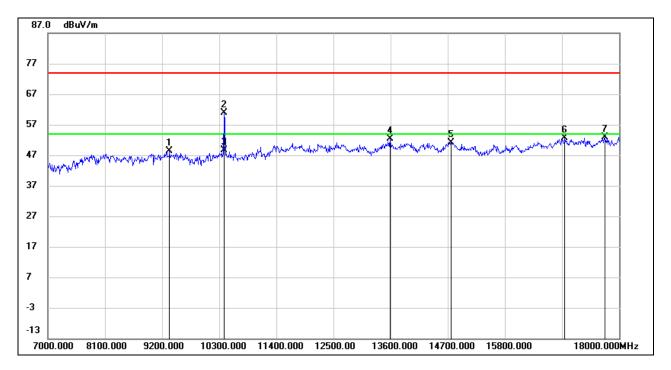


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	9200.000	37.70	9.91	47.61	74.00	-26.39	peak
2	10399.000	47.68	12.23	59.91	68.20	-8.29	peak
3	10399.000	35.93	12.23	48.16	/	/	AVG
4	12280.000	35.20	16.07	51.27	74.00	-22.73	peak
5	13897.000	34.04	17.52	51.56	74.00	-22.44	peak
6	15602.000	36.43	17.70	54.13	74.00	-19.87	peak
7	15602.000	22.96	17.70	40.66	54.00	-13.34	AVG
8	17318.000	30.30	22.47	52.77	74.00	-21.23	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.
- 6. Owing to the highest peak level of unwanted emission out of the restricted bands are lower than the line(54dBuV/m) in the graph, so all the peak test point was deemed to comply with the limits -27dBm/MHz (68.2dBuV/m) list in the standard CFR 47 FCC §15.407 (b) and ISED RSS-247 6.2.



HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, VERTICAL)

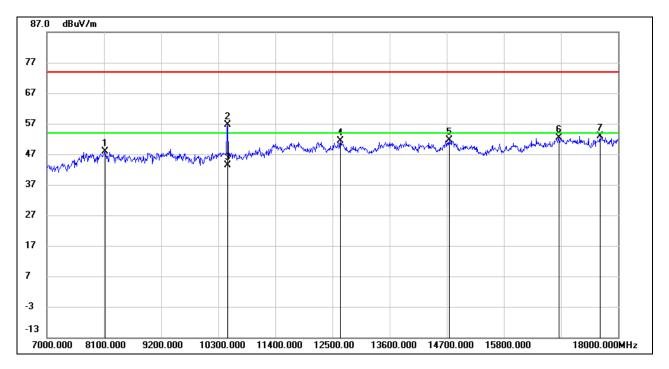


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	9343.000	37.62	10.64	48.26	74.00	-25.74	peak
2	10399.000	48.62	12.23	60.85	68.20	-7.35	peak
3	10399.000	36.33	12.23	48.56	/	/	AVG
4	13589.000	35.28	17.11	52.39	74.00	-21.61	peak
5	14766.000	33.31	17.92	51.23	74.00	-22.77	peak
6	16955.000	31.20	21.39	52.59	74.00	-21.41	peak
7	17725.000	29.23	23.61	52.84	74.00	-21.16	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.
- 6. Owing to the highest peak level of unwanted emission out of the restricted bands are lower than the line(54dBuV/m) in the graph, so all the peak test point was deemed to comply with the limits -27dBm/MHz (68.2dBuV/m) list in the standard CFR 47 FCC §15.407 (b) and ISED RSS-247 6.2.



HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, HORIZONTAL)

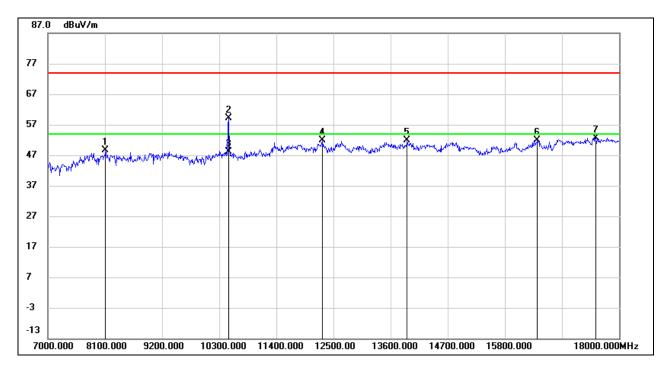


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	8122.000	37.85	10.10	47.95	74.00	-26.05	peak
2	10476.000	44.22	12.33	56.55	68.20	-11.65	peak
3	10476.000	31.00	12.33	43.33	/	/	AVG
4	12654.000	35.57	15.69	51.26	74.00	-22.74	peak
5	14744.000	33.67	17.84	51.51	74.00	-22.49	peak
6	16867.000	31.17	21.29	52.46	74.00	-21.54	peak
7	17648.000	29.92	23.08	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.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.
- 6. Owing to the highest peak level of unwanted emission out of the restricted bands are lower than the line(54dBuV/m) in the graph, so all the peak test point was deemed to comply with the limits -27dBm/MHz (68.2dBuV/m) list in the standard CFR 47 FCC §15.407 (b) and ISED RSS-247 6.2.



HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, VERTICAL)



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	8111.000	38.55	10.14	48.69	74.00	-25.31	peak
2	10476.000	46.80	12.33	59.13	68.20	-9.07	peak
3	10476.000	35.70	12.33	48.03	/	/	AVG
4	12291.000	35.76	16.08	51.84	74.00	-22.16	peak
5	13919.000	34.23	17.55	51.78	74.00	-22.22	peak
6	16427.000	32.25	19.68	51.93	74.00	-22.07	peak
7	17549.000	30.33	22.38	52.71	74.00	-21.29	peak

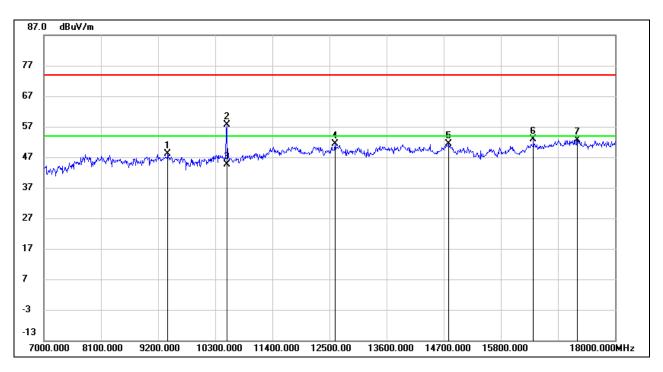
- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.
- 6. Owing to the highest peak level of unwanted emission out of the restricted bands are lower than the line(54dBuV/m) in the graph, so all the peak test point was deemed to comply with the limits -27dBm/MHz (68.2dBuV/m) list in the standard CFR 47 FCC §15.407 (b) and ISED RSS-247 6.2.



UNII-2A BAND

ANTENNA 1 TEST RESULTS (WORST CASE)

HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, HORIZONTAL)

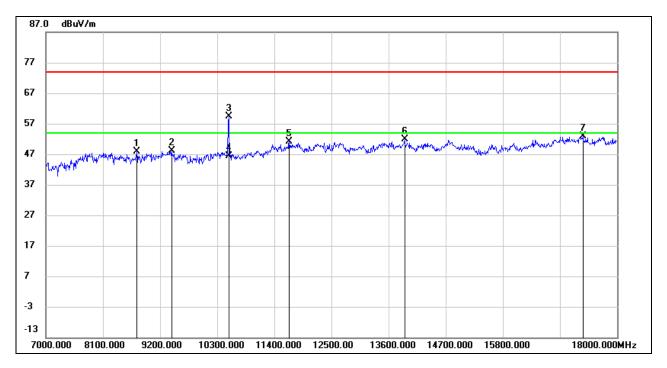


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	9387.000	37.30	10.89	48.19	74.00	-25.81	peak
2	10520.000	45.18	12.43	57.61	68.20	-10.59	peak
3	10520.000	32.30	12.43	44.73	/	/	AVG
4	12610.000	35.54	15.76	51.30	74.00	-22.70	peak
5	14788.000	33.41	18.00	51.41	74.00	-22.59	peak
6	16427.000	33.28	19.68	52.96	74.00	-21.04	peak
7	17274.000	30.30	22.45	52.75	74.00	-21.25	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.
- 6. Owing to the highest peak level of unwanted emission out of the restricted bands are lower than the line(54dBuV/m) in the graph, so all the peak test point was deemed to comply with the limits -27dBm/MHz (68.2dBuV/m) list in the standard CFR 47 FCC §15.407 (b) and ISED RSS-247 6.2.



HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, VERTICAL)

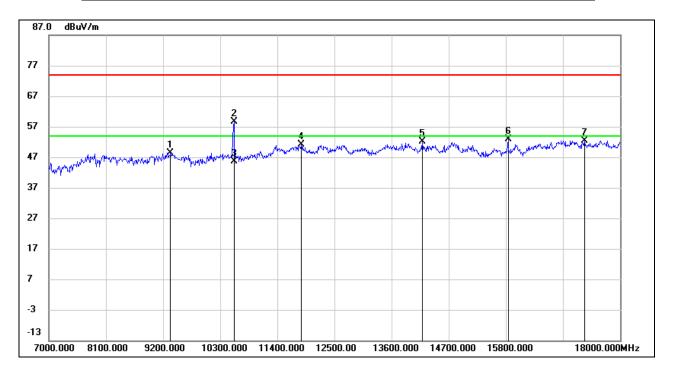


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	8749.000	38.63	9.14	47.77	74.00	-26.23	peak
2	9420.000	37.17	10.88	48.05	74.00	-25.95	peak
3	10520.000	46.85	12.43	59.28	68.20	-8.92	peak
4	10520.000	33.85	12.43	46.28	/	/	AVG
5	11686.000	35.74	15.27	51.01	74.00	-22.99	peak
6	13908.000	34.29	17.54	51.83	74.00	-22.17	peak
7	17340.000	30.64	22.31	52.95	74.00	-21.05	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.
- 6. Owing to the highest peak level of unwanted emission out of the restricted bands are lower than the line(54dBuV/m) in the graph, so all the peak test point was deemed to comply with the limits -27dBm/MHz (68.2dBuV/m) list in the standard CFR 47 FCC §15.407 (b) and ISED RSS-247 6.2.



HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, HORIZONTAL)

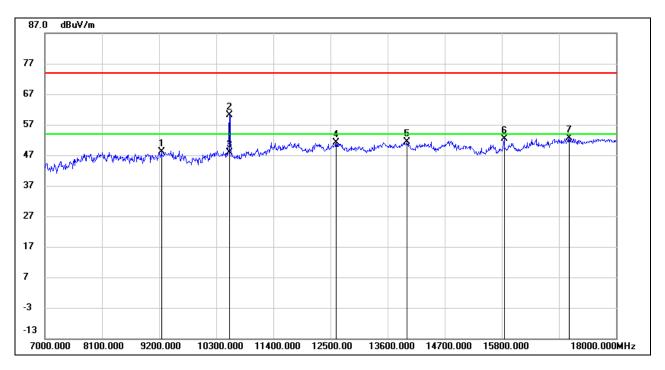


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	9343.000	37.76	10.64	48.40	74.00	-25.60	peak
2	10564.000	46.13	12.57	58.70	68.20	-9.50	peak
3	10564.000	33.06	12.57	45.63	/	/	AVG
4	11862.000	35.62	15.41	51.03	74.00	-22.97	peak
5	14194.000	34.26	17.77	52.03	74.00	-21.97	peak
6	15844.000	34.79	18.02	52.81	74.00	-21.19	peak
7	17318.000	30.02	22.47	52.49	74.00	-21.51	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.
- 6. Owing to the highest peak level of unwanted emission out of the restricted bands are lower than the line(54dBuV/m) in the graph, so all the peak test point was deemed to comply with the limits -27dBm/MHz (68.2dBuV/m) list in the standard CFR 47 FCC §15.407 (b) and ISED RSS-247 6.2.



HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, VERTICAL)

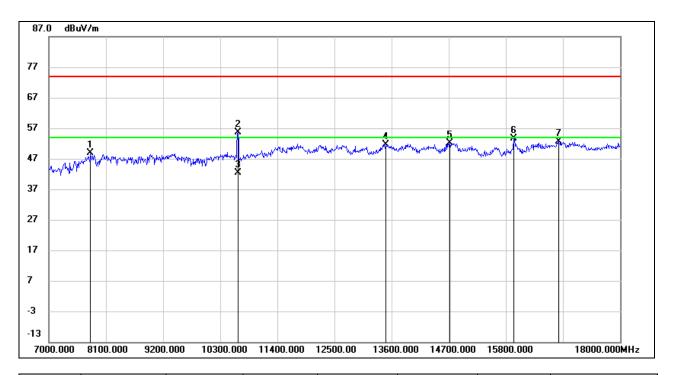


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	9244.000	38.00	10.12	48.12	74.00	-25.88	peak
2	10553.000	47.70	12.53	60.23	68.20	-7.97	peak
3	10553.000	35.33	12.53	47.86	/	/	AVG
4	12610.000	35.44	15.76	51.20	74.00	-22.80	peak
5	13974.000	33.72	17.62	51.34	74.00	-22.66	peak
6	15844.000	34.34	18.02	52.36	74.00	-21.64	peak
7	17098.000	30.75	21.89	52.64	74.00	-21.36	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.
- 6. Owing to the highest peak level of unwanted emission out of the restricted bands are lower than the line(54dBuV/m) in the graph, so all the peak test point was deemed to comply with the limits -27dBm/MHz (68.2dBuV/m) list in the standard CFR 47 FCC §15.407 (b) and ISED RSS-247 6.2.



HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, HORIZONTAL)

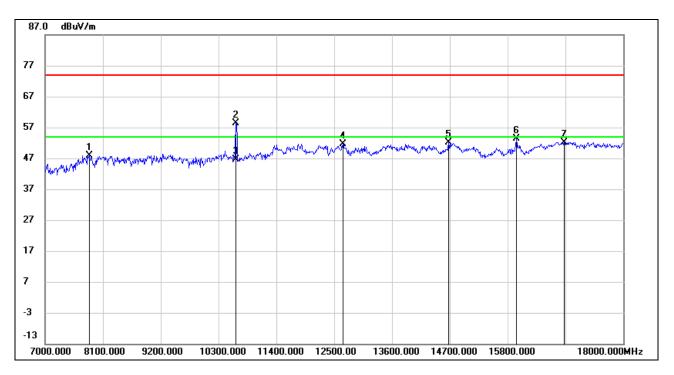


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	7803.000	39.53	9.33	48.86	74.00	-25.14	peak
2	10641.000	42.92	12.77	55.69	74.00	-18.31	peak
3	10641.000	29.59	12.77	42.36	54.00	-11.64	AVG
4	13490.000	34.50	17.20	51.70	74.00	-22.30	peak
5	14722.000	34.39	17.77	52.16	74.00	-21.84	peak
6	15954.000	35.37	18.26	53.63	74.00	-20.37	peak
7	16812.000	31.93	20.81	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.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.
- 6. Owing to the highest peak level of unwanted emission out of the restricted bands are lower than the line(54dBuV/m) in the graph, so all the peak test point was deemed to comply with the limits -27dBm/MHz (68.2dBuV/m) list in the standard CFR 47 FCC §15.407 (b) and ISED RSS-247 6.2.



HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, VERTICAL)



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	7847.000	38.86	9.12	47.98	74.00	-26.02	peak
2	10630.000	45.53	12.75	58.28	74.00	-15.72	peak
3	10630.000	33.84	12.75	46.59	54.00	-7.41	AVG
4	12665.000	35.91	15.68	51.59	74.00	-22.41	peak
5	14678.000	34.58	17.62	52.20	74.00	-21.80	peak
6	15965.000	35.05	18.29	53.34	74.00	-20.66	peak
7	16878.000	30.83	21.38	52.21	74.00	-21.79	peak

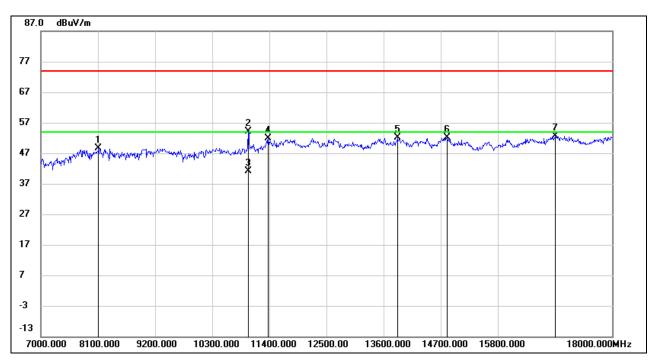
- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.
- 6. Owing to the highest peak level of unwanted emission out of the restricted bands are lower than the line(54dBuV/m) in the graph, so all the peak test point was deemed to comply with the limits -27dBm/MHz (68.2dBuV/m) list in the standard CFR 47 FCC §15.407 (b) and ISED RSS-247 6.2.



UNII-2C BAND

ANTENNA 1 TEST RESULTS (WORST CASE)

HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, HORIZONTAL)

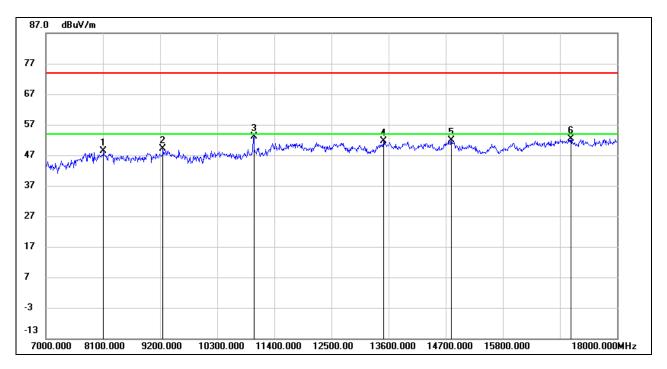


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	8111.000	38.59	10.14	48.73	74.00	-25.27	peak
2	10993.000	40.83	13.31	54.14	74.00	-19.86	peak
3	10993.000	27.80	13.31	41.11	54.00	-12.89	AVG
4	11378.000	37.34	14.55	51.89	74.00	-22.11	peak
5	13864.000	34.54	17.55	52.09	74.00	-21.91	peak
6	14821.000	34.14	17.90	52.04	74.00	-21.96	peak
7	16900.000	31.03	21.57	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.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.
- 6. Owing to the highest peak level of unwanted emission out of the restricted bands are lower than the line(54dBuV/m) in the graph, so all the peak test point was deemed to comply with the limits -27dBm/MHz (68.2dBuV/m) list in the standard CFR 47 FCC §15.407 (b) and ISED RSS-247 6.2.



HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, VERTICAL)

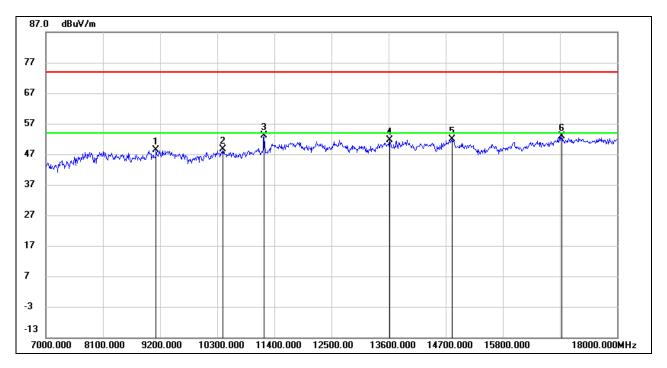


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	8111.000	38.20	10.14	48.34	74.00	-25.66	peak
2	9255.000	38.89	10.17	49.06	74.00	-24.94	peak
3	11004.000	39.79	13.32	53.11	74.00	-20.89	peak
4	13501.000	34.36	17.22	51.58	74.00	-22.42	peak
5	14810.000	33.93	17.97	51.90	74.00	-22.10	peak
6	17109.000	30.38	21.91	52.29	74.00	-21.71	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.
- 6. Owing to the highest peak level of unwanted emission out of the restricted bands are lower than the line(54dBuV/m) in the graph, so all the peak test point was deemed to comply with the limits -27dBm/MHz (68.2dBuV/m) list in the standard CFR 47 FCC §15.407 (b) and ISED RSS-247 6.2.



HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, HORIZONTAL)

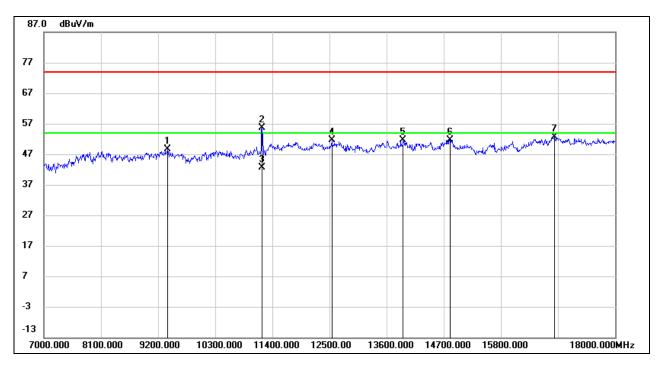


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	9123.000	38.32	10.09	48.41	74.00	-25.59	peak
2	10410.000	36.50	12.25	48.75	74.00	-25.25	peak
3	11202.000	39.30	13.79	53.09	74.00	-20.91	peak
4	13622.000	34.47	17.20	51.67	74.00	-22.33	peak
5	14821.000	34.04	17.90	51.94	74.00	-22.06	peak
6	16933.000	31.35	21.46	52.81	74.00	-21.19	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.
- 6. Owing to the highest peak level of unwanted emission out of the restricted bands are lower than the line(54dBuV/m) in the graph, so all the peak test point was deemed to comply with the limits -27dBm/MHz (68.2dBuV/m) list in the standard CFR 47 FCC §15.407 (b) and ISED RSS-247 6.2.



HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, VERTICAL)

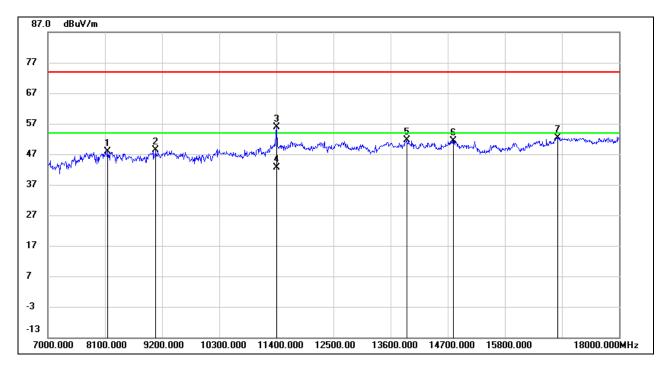


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	9387.000	37.73	10.89	48.62	74.00	-25.38	peak
2	11202.000	41.72	13.79	55.51	74.00	-18.49	peak
3	11202.000	28.82	13.79	42.61	54.00	-11.39	AVG
4	12544.000	35.86	15.72	51.58	74.00	-22.42	peak
5	13919.000	34.09	17.55	51.64	74.00	-22.36	peak
6	14821.000	33.85	17.90	51.75	74.00	-22.25	peak
7	16834.000	31.68	21.00	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.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.
- 6. Owing to the highest peak level of unwanted emission out of the restricted bands are lower than the line(54dBuV/m) in the graph, so all the peak test point was deemed to comply with the limits -27dBm/MHz (68.2dBuV/m) list in the standard CFR 47 FCC §15.407 (b) and ISED RSS-247 6.2.



HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, HORIZONTAL)

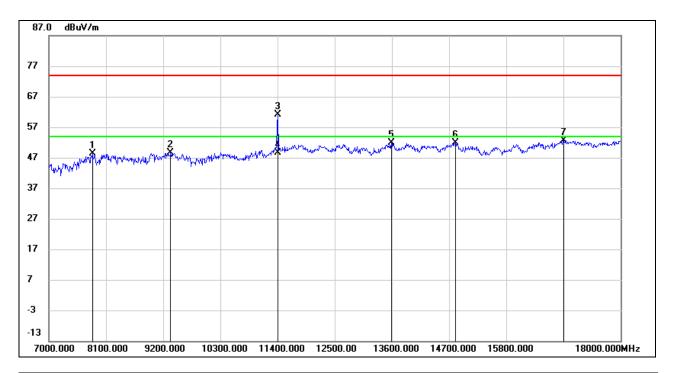


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	8155.000	37.94	9.98	47.92	74.00	-26.08	peak
2	9079.000	37.94	10.38	48.32	74.00	-25.68	peak
3	11400.000	41.19	14.76	55.95	74.00	-18.05	peak
4	11400.000	27.83	14.76	42.59	54.00	-11.41	AVG
5	13908.000	34.10	17.54	51.64	74.00	-22.36	peak
6	14810.000	33.53	17.97	51.50	74.00	-22.50	peak
7	16812.000	31.68	20.81	52.49	74.00	-21.51	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.
- 6. Owing to the highest peak level of unwanted emission out of the restricted bands are lower than the line(54dBuV/m) in the graph, so all the peak test point was deemed to comply with the limits -27dBm/MHz (68.2dBuV/m) list in the standard CFR 47 FCC §15.407 (b) and ISED RSS-247 6.2.



HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, VERTICAL)



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	7836.000	39.28	9.17	48.45	74.00	-25.55	peak
2	9343.000	38.09	10.64	48.73	74.00	-25.27	peak
3	11400.000	46.29	14.76	61.05	74.00	-12.95	peak
4	11400.000	33.76	14.76	48.52	54.00	-5.48	AVG
5	13589.000	34.68	17.11	51.79	74.00	-22.21	peak
6	14821.000	33.95	17.90	51.85	74.00	-22.15	peak
7	16911.000	31.18	21.54	52.72	74.00	-21.28	peak

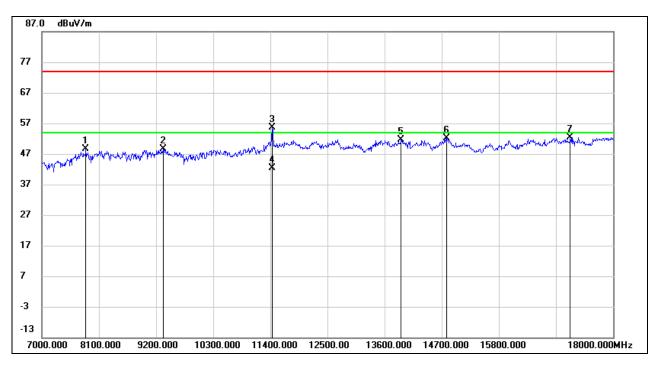
- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.
- 6. Owing to the highest peak level of unwanted emission out of the restricted bands are lower than the line(54dBuV/m) in the graph, so all the peak test point was deemed to comply with the limits -27dBm/MHz (68.2dBuV/m) list in the standard CFR 47 FCC §15.407 (b) and ISED RSS-247 6.2.



STRADDLE CHANNEL 144

ANTENNA 1 TEST RESULTS (WORST CASE)

HARMONICS AND SPURIOUS EMISSIONS (HORIZONTAL)

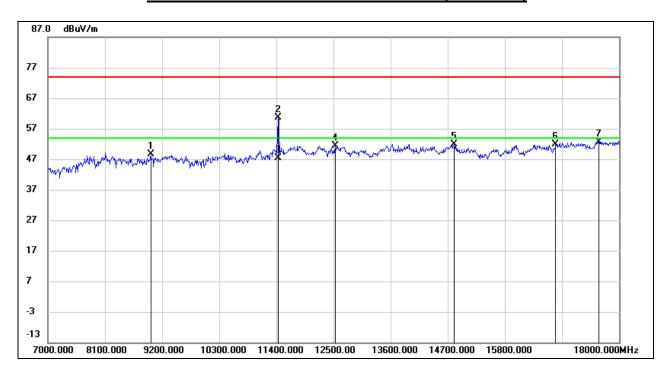


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	7847.000	39.44	9.12	48.56	74.00	-25.44	peak
2	9332.000	38.08	10.59	48.67	74.00	-25.33	peak
3	11433.000	40.87	14.73	55.60	74.00	-18.40	peak
4	11433.000	27.58	14.73	42.31	54.00	-11.69	AVG
5	13919.000	34.17	17.55	51.72	74.00	-22.28	peak
6	14799.000	34.08	18.04	52.12	74.00	-21.88	peak
7	17175.000	30.48	21.97	52.45	74.00	-21.55	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.
- 6. Owing to the highest peak level of unwanted emission out of the restricted bands are lower than the line(54dBuV/m) in the graph, so all the peak test point was deemed to comply with the limits -27dBm/MHz (68.2dBuV/m) list in the standard CFR 47 FCC §15.407 (b) and ISED RSS-247 6.2.



HARMONICS AND SPURIOUS EMISSIONS (VERTICAL)



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	8980.000	37.68	10.89	48.57	74.00	-25.43	peak
2	11433.000	46.01	14.73	60.74	74.00	-13.26	peak
3	11433.000	32.60	14.73	47.33	54.00	-6.67	AVG
4	12533.000	35.74	15.71	51.45	74.00	-22.55	peak
5	14821.000	34.05	17.90	51.95	74.00	-22.05	peak
6	16779.000	31.43	20.55	51.98	74.00	-22.02	peak
7	17604.000	29.99	22.76	52.75	74.00	-21.25	peak

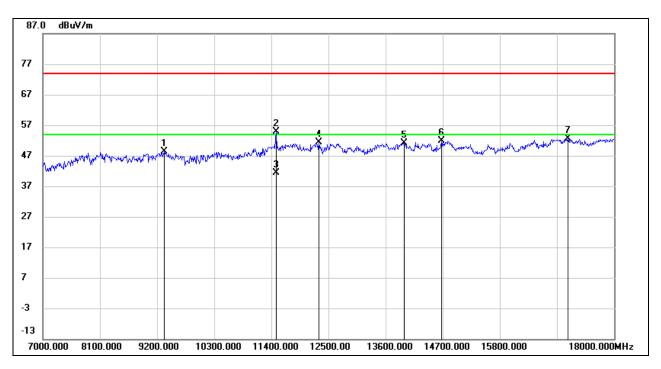
- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.
- 6. Owing to the highest peak level of unwanted emission out of the restricted bands are lower than the line(54dBuV/m) in the graph, so all the peak test point was deemed to comply with the limits -27dBm/MHz (68.2dBuV/m) list in the standard CFR 47 FCC §15.407 (b) and ISED RSS-247 6.2.



UNII-3 BAND

ANTENNA 1 TEST RESULTS (WORST CASE)

HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, HORIZONTAL)

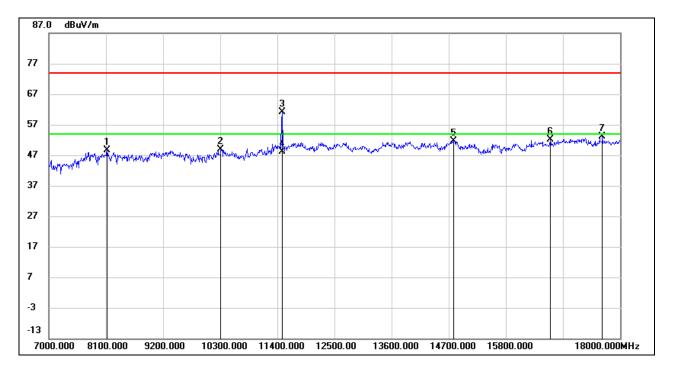


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	9343.000	37.73	10.64	48.37	74.00	-25.63	peak
2	11488.000	40.14	14.66	54.80	74.00	-19.20	peak
3	11488.000	26.63	14.66	41.29	54.00	-12.71	AVG
4	12313.000	35.21	16.07	51.28	74.00	-22.72	peak
5	13963.000	33.63	17.61	51.24	74.00	-22.76	peak
6	14678.000	34.36	17.62	51.98	74.00	-22.02	peak
7	17109.000	30.66	21.91	52.57	74.00	-21.43	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.
- 6. Owing to the highest peak level of unwanted emission out of the restricted bands are lower than the line(54dBuV/m) in the graph, so all the peak test point was deemed to comply with the limits -27dBm/MHz (68.2dBuV/m) list in the standard CFR 47 FCC §15.407 (b) and ISED RSS-247 6.2.



HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, VERTICAL)

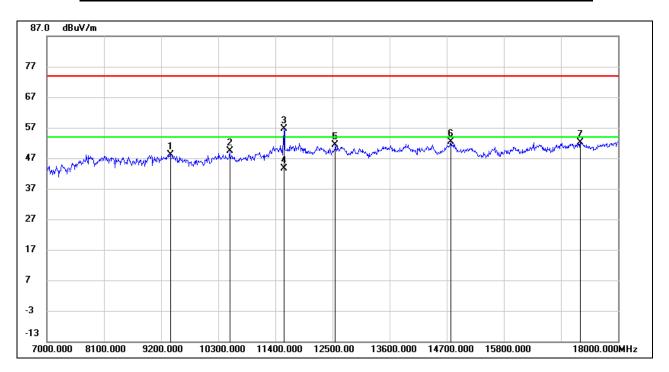


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	8122.000	38.48	10.10	48.58	74.00	-25.42	peak
2	10311.000	37.10	11.86	48.96	74.00	-25.04	peak
3	11488.000	46.53	14.66	61.19	74.00	-12.81	peak
4	11488.000	33.59	14.66	48.25	54.00	-5.75	AVG
5	14799.000	33.70	18.04	51.74	74.00	-22.26	peak
6	16658.000	32.16	19.98	52.14	74.00	-21.86	peak
7	17659.000	29.87	23.17	53.04	74.00	-20.96	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.
- 6. Owing to the highest peak level of unwanted emission out of the restricted bands are lower than the line(54dBuV/m) in the graph, so all the peak test point was deemed to comply with the limits -27dBm/MHz (68.2dBuV/m) list in the standard CFR 47 FCC §15.407 (b) and ISED RSS-247 6.2.



HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, HORIZONTAL)

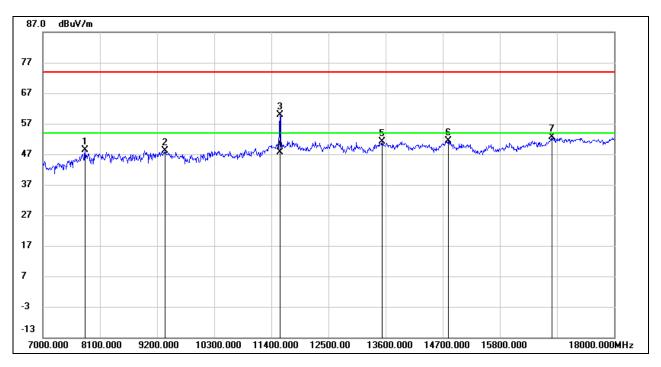


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	9376.000	37.37	10.84	48.21	74.00	-25.79	peak
2	10520.000	36.83	12.43	49.26	74.00	-24.74	peak
3	11565.000	42.06	14.69	56.75	74.00	-17.25	peak
4	11565.000	28.90	14.69	43.59	54.00	-10.41	AVG
5	12555.000	35.77	15.73	51.50	74.00	-22.50	peak
6	14777.000	34.31	17.96	52.27	74.00	-21.73	peak
7	17274.000	29.71	22.45	52.16	74.00	-21.84	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 High Pass Filter losses.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.
- 6. Owing to the highest peak level of unwanted emission out of the restricted bands are lower than the line(54dBuV/m) in the graph, so all the peak test point was deemed to comply with the limits -27dBm/MHz (68.2dBuV/m) list in the standard CFR 47 FCC §15.407 (b) and ISED RSS-247 6.2.



HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, VERTICAL)

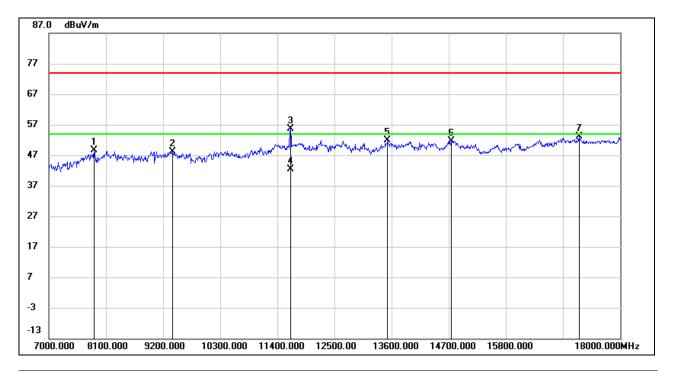


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	7814.000	39.05	9.28	48.33	74.00	-25.67	peak
2	9354.000	37.54	10.70	48.24	74.00	-25.76	peak
3	11565.000	45.17	14.69	59.86	74.00	-14.14	peak
4	11565.000	32.94	14.69	47.63	54.00	-6.37	AVG
5	13534.000	33.99	17.18	51.17	74.00	-22.83	peak
6	14810.000	33.38	17.97	51.35	74.00	-22.65	peak
7	16801.000	31.92	20.72	52.64	74.00	-21.36	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.
- 6. Owing to the highest peak level of unwanted emission out of the restricted bands are lower than the line(54dBuV/m) in the graph, so all the peak test point was deemed to comply with the limits -27dBm/MHz (68.2dBuV/m) list in the standard CFR 47 FCC §15.407 (b) and ISED RSS-247 6.2.



HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, HORIZONTAL)

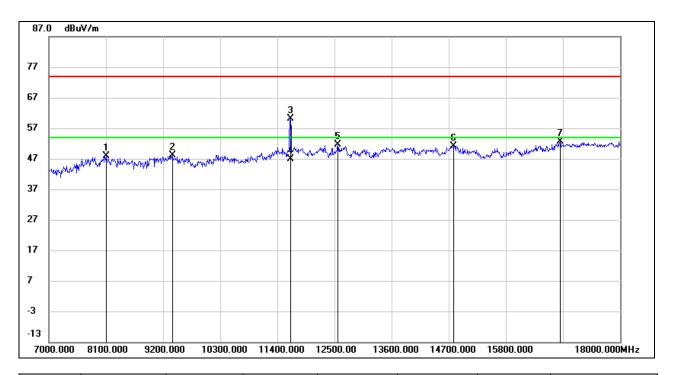


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	7869.000	39.62	9.02	48.64	74.00	-25.36	peak
2	9376.000	37.41	10.84	48.25	74.00	-25.75	peak
3	11653.000	40.47	15.05	55.52	74.00	-18.48	peak
4	11653.000	27.45	15.05	42.50	54.00	-11.50	AVG
5	13523.000	34.73	17.19	51.92	74.00	-22.08	peak
6	14744.000	33.83	17.84	51.67	74.00	-22.33	peak
7	17208.000	31.02	22.04	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.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.
- 6. Owing to the highest peak level of unwanted emission out of the restricted bands are lower than the line(54dBuV/m) in the graph, so all the peak test point was deemed to comply with the limits -27dBm/MHz (68.2dBuV/m) list in the standard CFR 47 FCC §15.407 (b) and ISED RSS-247 6.2.



HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, VERTICAL)



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	8100.000	37.72	10.18	47.90	74.00	-26.10	peak
2	9376.000	37.32	10.84	48.16	74.00	-25.84	peak
3	11653.000	45.15	15.05	60.20	74.00	-13.80	peak
4	11653.000	31.91	15.05	46.96	54.00	-7.04	AVG
5	12566.000	35.97	15.74	51.71	74.00	-22.29	peak
6	14799.000	33.09	18.04	51.13	74.00	-22.87	peak
7	16845.000	31.53	21.10	52.63	74.00	-21.37	peak

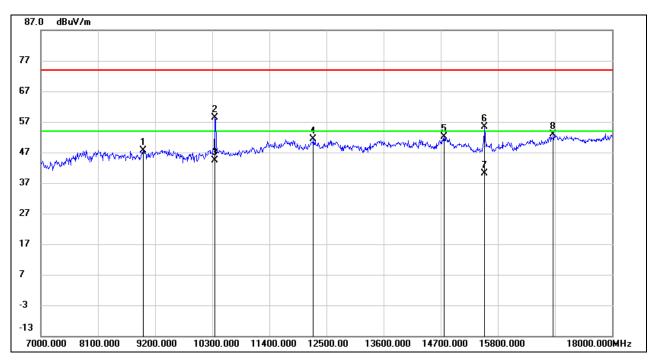
- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.
- 6. Owing to the highest peak level of unwanted emission out of the restricted bands are lower than the line(54dBuV/m) in the graph, so all the peak test point was deemed to comply with the limits -27dBm/MHz (68.2dBuV/m) list in the standard CFR 47 FCC §15.407 (b) and ISED RSS-247 6.2.



8.3.2. 802.11n HT20 MIMO MODE

UNII-1 BAND

HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, HORIZONTAL)

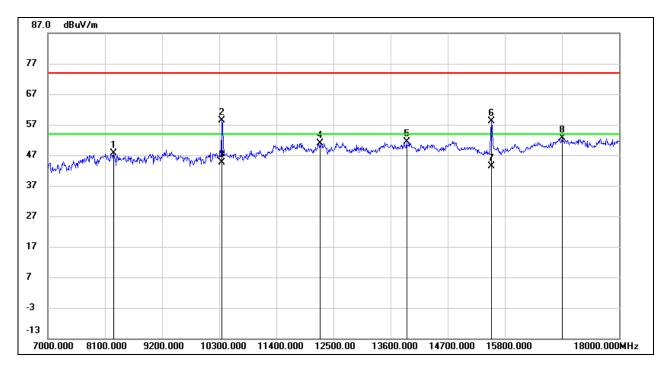


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	8969.000	37.04	10.69	47.73	74.00	-26.27	peak
2	10355.000	46.45	12.04	58.49	68.20	-9.71	peak
3	10355.000	32.22	12.04	44.26	/	/	AVG
4	12247.000	35.35	16.02	51.37	74.00	-22.63	peak
5	14766.000	34.21	17.92	52.13	74.00	-21.87	peak
6	15547.000	37.92	17.36	55.28	74.00	-18.72	peak
7	15547.000	22.87	17.36	40.23	54.00	-13.77	AVG
8	16867.000	31.59	21.29	52.88	74.00	-21.12	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.
- 6. Owing to the highest peak level of unwanted emission out of the restricted bands are lower than the line(54dBuV/m) in the graph, so all the peak test point was deemed to comply with the limits -27dBm/MHz (68.2dBuV/m) list in the standard CFR 47 FCC §15.407 (b) and ISED RSS-247 6.2.



HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, VERTICAL)

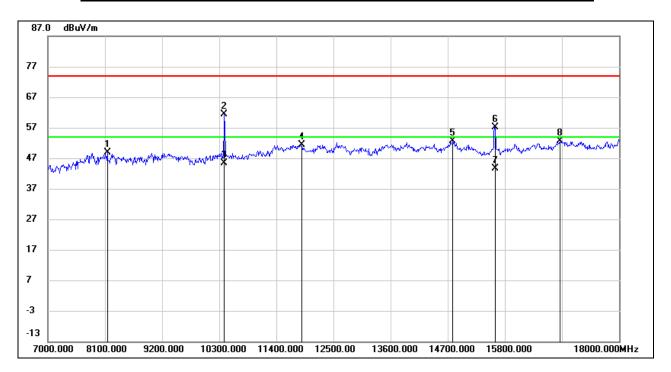


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	8265.000	37.94	9.73	47.67	74.00	-26.33	peak
2	10355.000	46.31	12.04	58.35	68.20	-9.85	peak
3	10355.000	32.65	12.04	44.69	/	/	AVG
4	12236.000	34.86	16.01	50.87	74.00	-23.13	peak
5	13908.000	33.84	17.54	51.38	74.00	-22.62	peak
6	15547.000	40.73	17.36	58.09	74.00	-15.91	peak
7	15547.000	25.97	17.36	43.33	54.00	-10.67	AVG
8	16900.000	30.94	21.57	52.51	74.00	-21.49	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.
- 6. Owing to the highest peak level of unwanted emission out of the restricted bands are lower than the line(54dBuV/m) in the graph, so all the peak test point was deemed to comply with the limits -27dBm/MHz (68.2dBuV/m) list in the standard CFR 47 FCC §15.407 (b) and ISED RSS-247 6.2.



HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, HORIZONTAL)

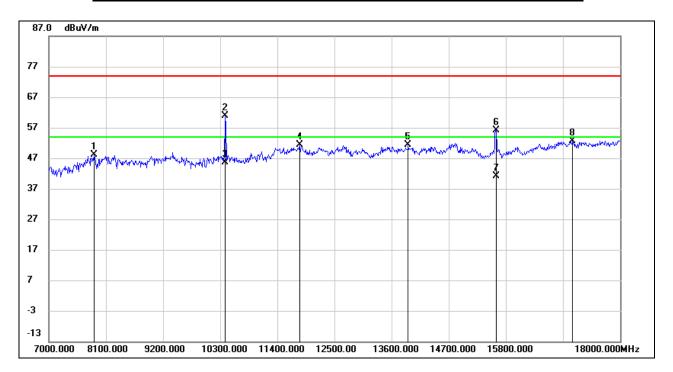


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	8144.000	38.98	10.02	49.00	74.00	-25.00	peak
2	10399.000	49.07	12.23	61.30	68.20	-6.90	peak
3	10399.000	33.07	12.23	45.30	/	/	AVG
4	11895.000	35.88	15.50	51.38	74.00	-22.62	peak
5	14799.000	34.64	18.04	52.68	74.00	-21.32	peak
6	15613.000	39.35	17.72	57.07	74.00	-16.93	peak
7	15613.000	25.97	17.72	43.69	54.00	-10.31	AVG
8	16856.000	31.47	21.19	52.66	74.00	-21.34	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.
- 6. Owing to the highest peak level of unwanted emission out of the restricted bands are lower than the line(54dBuV/m) in the graph, so all the peak test point was deemed to comply with the limits -27dBm/MHz (68.2dBuV/m) list in the standard CFR 47 FCC §15.407 (b) and ISED RSS-247 6.2.



HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, VERTICAL)

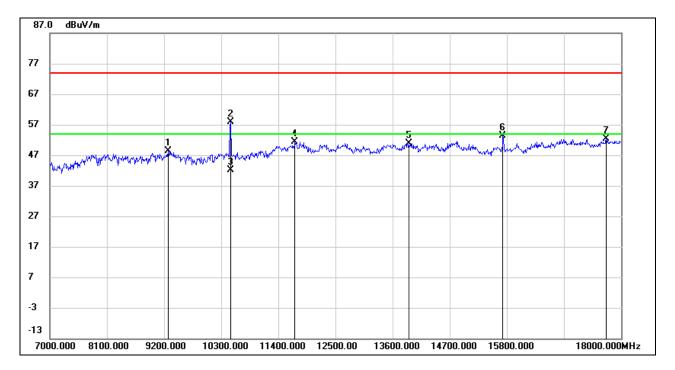


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	7869.000	39.12	9.02	48.14	74.00	-25.86	peak
2	10399.000	48.69	12.23	60.92	68.20	-7.28	peak
3	10399.000	33.48	12.23	45.71	/	/	AVG
4	11829.000	35.99	15.32	51.31	74.00	-22.69	peak
5	13919.000	33.74	17.55	51.29	74.00	-22.71	peak
6	15613.000	38.46	17.72	56.18	74.00	-17.82	peak
7	15613.000	23.44	17.72	41.16	54.00	-12.84	AVG
8	17087.000	30.83	21.81	52.64	74.00	-21.36	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.
- 6. Owing to the highest peak level of unwanted emission out of the restricted bands are lower than the line(54dBuV/m) in the graph, so all the peak test point was deemed to comply with the limits -27dBm/MHz (68.2dBuV/m) list in the standard CFR 47 FCC §15.407 (b) and ISED RSS-247 6.2.



HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, HORIZONTAL)

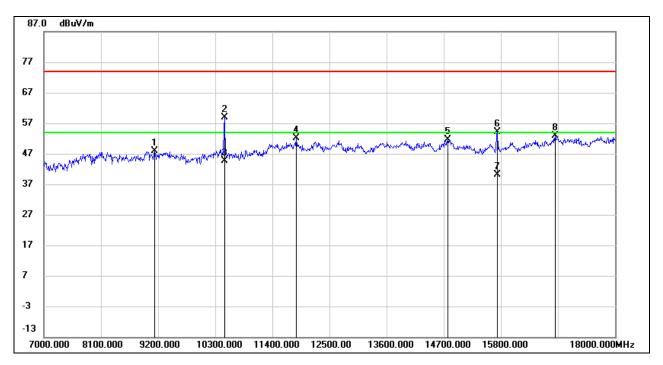


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	9277.000	38.19	10.28	48.47	74.00	-25.53	peak
2	10487.000	45.61	12.35	57.96	68.20	-10.24	peak
3	10487.000	29.85	12.35	42.20	/	/	AVG
4	11719.000	36.00	15.33	51.33	74.00	-22.67	peak
5	13919.000	33.43	17.55	50.98	74.00	-23.02	peak
6	15723.000	35.53	17.86	53.39	74.00	-20.61	peak
7	17714.000	28.91	23.55	52.46	74.00	-21.54	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 High Pass Filter losses.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.
- 6. Owing to the highest peak level of unwanted emission out of the restricted bands are lower than the line(54dBuV/m) in the graph, so all the peak test point was deemed to comply with the limits -27dBm/MHz (68.2dBuV/m) list in the standard CFR 47 FCC §15.407 (b) and ISED RSS-247 6.2.



HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, VERTICAL)



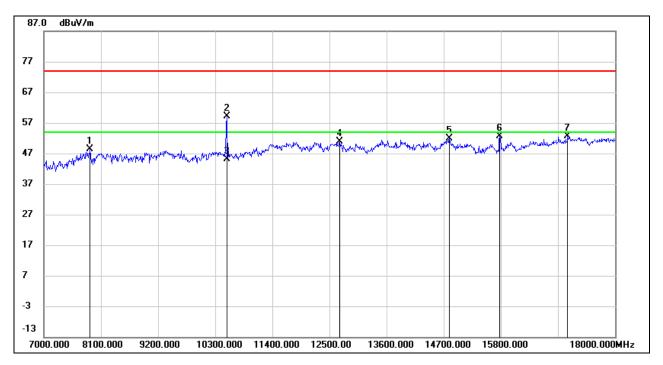
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	9134.000	37.89	10.06	47.95	74.00	-26.05	peak
2	10476.000	46.65	12.33	58.98	68.20	-9.22	peak
3	10476.000	32.27	12.33	44.60	/	/	AVG
4	11862.000	36.66	15.41	52.07	74.00	-21.93	peak
5	14777.000	33.71	17.96	51.67	74.00	-22.33	peak
6	15734.000	36.23	17.88	54.11	74.00	-19.89	peak
7	15734.000	22.35	17.88	40.23	54.00	-13.77	AVG
8	16845.000	31.85	21.10	52.95	74.00	-21.05	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.
- 6. Owing to the highest peak level of unwanted emission out of the restricted bands are lower than the line(54dBuV/m) in the graph, so all the peak test point was deemed to comply with the limits -27dBm/MHz (68.2dBuV/m) list in the standard CFR 47 FCC §15.407 (b) and ISED RSS-247 6.2.



UNII-2A BAND

HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, HORIZONTAL)

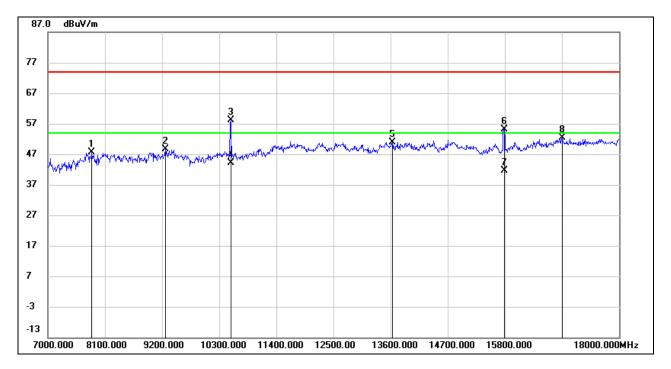


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	7891.000	39.37	8.90	48.27	74.00	-25.73	peak
2	10520.000	46.81	12.43	59.24	68.20	-8.96	peak
3	10520.000	32.73	12.43	45.16	/	/	AVG
4	12698.000	35.34	15.62	50.96	74.00	-23.04	peak
5	14810.000	33.80	17.97	51.77	74.00	-22.23	peak
6	15778.000	34.72	17.96	52.68	74.00	-21.32	peak
7	17087.000	30.74	21.81	52.55	74.00	-21.45	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.
- 6. Owing to the highest peak level of unwanted emission out of the restricted bands are lower than the line(54dBuV/m) in the graph, so all the peak test point was deemed to comply with the limits -27dBm/MHz (68.2dBuV/m) list in the standard CFR 47 FCC §15.407 (b) and ISED RSS-247 6.2.



HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, VERTICAL)

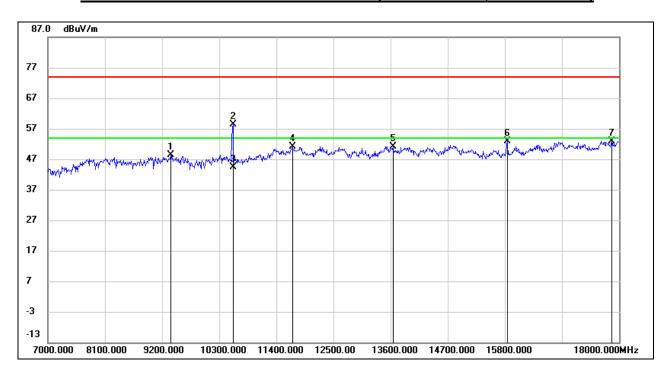


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	7847.000	38.40	9.12	47.52	74.00	-26.48	peak
2	9266.000	38.42	10.23	48.65	74.00	-25.35	peak
3	10520.000	45.68	12.43	58.11	68.20	-10.09	peak
4	10520.000	31.69	12.43	44.12	/	/	AVG
5	13633.000	33.73	17.27	51.00	74.00	-23.00	peak
6	15789.000	37.19	17.97	55.16	74.00	-18.84	peak
7	15789.000	23.73	17.97	41.70	54.00	-12.30	AVG
8	16900.000	30.72	21.57	52.29	74.00	-21.71	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.
- 6. Owing to the highest peak level of unwanted emission out of the restricted bands are lower than the line(54dBuV/m) in the graph, so all the peak test point was deemed to comply with the limits -27dBm/MHz (68.2dBuV/m) list in the standard CFR 47 FCC §15.407 (b) and ISED RSS-247 6.2.



HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, HORIZONTAL)

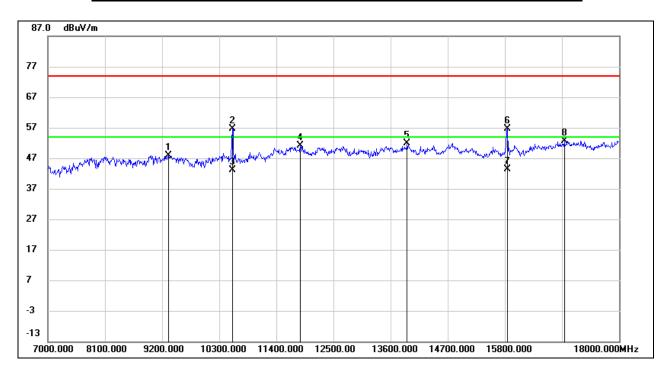


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	9365.000	37.59	10.77	48.36	74.00	-25.64	peak
2	10564.000	45.87	12.57	58.44	68.20	-9.76	peak
3	10564.000	31.87	12.57	44.44	/	/	AVG
4	11708.000	35.88	15.34	51.22	74.00	-22.78	peak
5	13644.000	33.90	17.33	51.23	74.00	-22.77	peak
6	15844.000	34.96	18.02	52.98	74.00	-21.02	peak
7	17857.000	29.03	23.96	52.99	74.00	-21.01	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.
- 6. Owing to the highest peak level of unwanted emission out of the restricted bands are lower than the line(54dBuV/m) in the graph, so all the peak test point was deemed to comply with the limits -27dBm/MHz (68.2dBuV/m) list in the standard CFR 47 FCC §15.407 (b) and ISED RSS-247 6.2.



HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, VERTICAL)

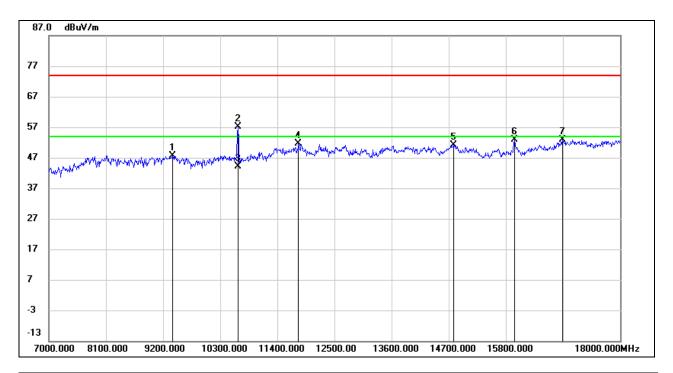


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	9321.000	37.41	10.52	47.93	74.00	-26.07	peak
2	10553.000	44.04	12.53	56.57	68.20	-11.63	peak
3	10553.000	30.58	12.53	43.11	/	/	AVG
4	11862.000	35.66	15.41	51.07	74.00	-22.93	peak
5	13919.000	34.23	17.55	51.78	74.00	-22.22	peak
6	15844.000	38.73	18.02	56.75	74.00	-17.25	peak
7	15844.000	25.28	18.02	43.30	54.00	-10.70	AVG
8	16944.000	31.26	21.43	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.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.
- 6. Owing to the highest peak level of unwanted emission out of the restricted bands are lower than the line(54dBuV/m) in the graph, so all the peak test point was deemed to comply with the limits -27dBm/MHz (68.2dBuV/m) list in the standard CFR 47 FCC §15.407 (b) and ISED RSS-247 6.2.



HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, HORIZONTAL)

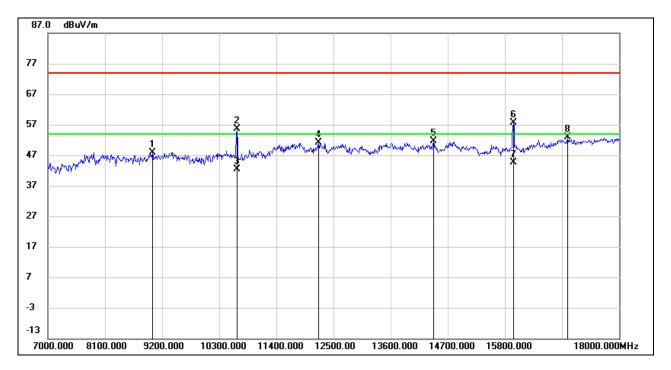


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	9376.000	36.68	10.84	47.52	74.00	-26.48	peak
2	10641.000	44.25	12.77	57.02	74.00	-16.98	peak
3	10641.000	31.31	12.77	44.08	54.00	-9.92	AVG
4	11807.000	36.43	15.27	51.70	74.00	-22.30	peak
5	14799.000	33.16	18.04	51.20	74.00	-22.80	peak
6	15965.000	34.70	18.29	52.99	74.00	-21.01	peak
7	16889.000	31.37	21.47	52.84	74.00	-21.16	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.
- 6. Owing to the highest peak level of unwanted emission out of the restricted bands are lower than the line(54dBuV/m) in the graph, so all the peak test point was deemed to comply with the limits -27dBm/MHz (68.2dBuV/m) list in the standard CFR 47 FCC §15.407 (b) and ISED RSS-247 6.2.



HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, VERTICAL)



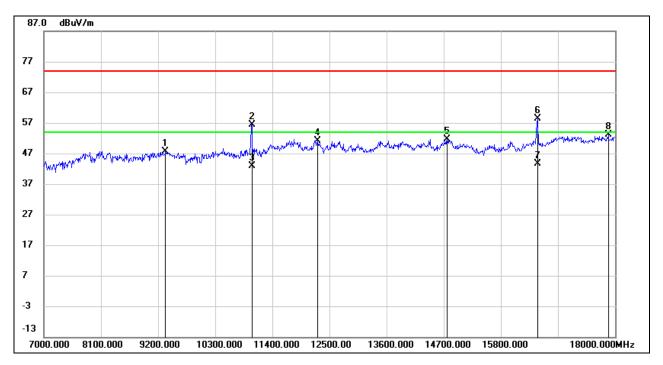
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	9013.000	36.77	11.12	47.89	74.00	-26.11	peak
2	10641.000	42.76	12.77	55.53	74.00	-18.47	peak
3	10641.000	29.49	12.77	42.26	54.00	-11.74	AVG
4	12214.000	35.19	15.97	51.16	74.00	-22.84	peak
5	14425.000	34.18	17.34	51.52	74.00	-22.48	peak
6	15965.000	39.33	18.29	57.62	74.00	-16.38	peak
7	15965.000	26.38	18.29	44.67	54.00	-9.33	AVG
8	17010.000	31.60	21.31	52.91	74.00	-21.09	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.
- 6. Owing to the highest peak level of unwanted emission out of the restricted bands are lower than the line(54dBuV/m) in the graph, so all the peak test point was deemed to comply with the limits -27dBm/MHz (68.2dBuV/m) list in the standard CFR 47 FCC §15.407 (b) and ISED RSS-247 6.2.



UNII-2C BAND

HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, HORIZONTAL)

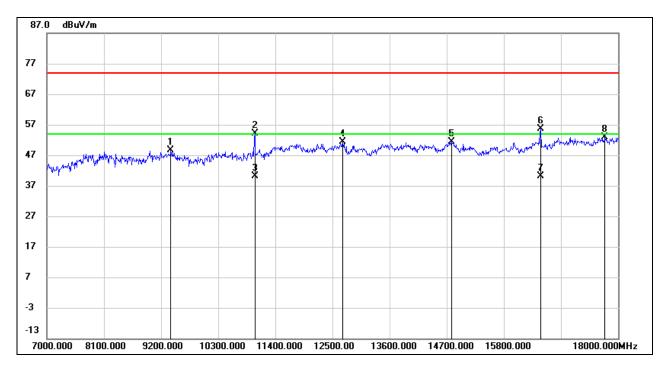


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	9343.000	36.99	10.64	47.63	74.00	-26.37	peak
2	11004.000	43.12	13.32	56.44	74.00	-17.56	peak
3	11004.000	29.55	13.32	42.87	54.00	-11.13	AVG
4	12269.000	35.17	16.04	51.21	74.00	-22.79	peak
5	14766.000	33.67	17.92	51.59	74.00	-22.41	peak
6	16504.000	38.63	19.70	58.33	68.20	-9.87	peak
7	16504.000	24.05	19.70	43.75	/	/	AVG
8	17868.000	29.09	23.94	53.03	74.00	-20.97	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.
- 6. Owing to the highest peak level of unwanted emission out of the restricted bands are lower than the line(54dBuV/m) in the graph, so all the peak test point was deemed to comply with the limits -27dBm/MHz (68.2dBuV/m) list in the standard CFR 47 FCC §15.407 (b) and ISED RSS-247 6.2.



HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, VERTICAL)

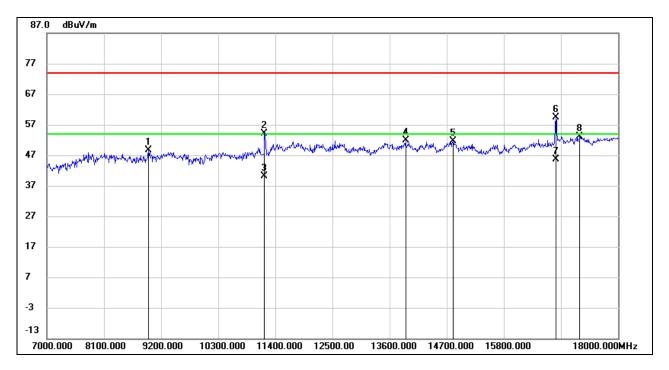


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	9387.000	37.65	10.89	48.54	74.00	-25.46	peak
2	11004.000	40.85	13.32	54.17	74.00	-19.83	peak
3	11004.000	26.81	13.32	40.13	54.00	-13.87	AVG
4	12698.000	35.69	15.62	51.31	74.00	-22.69	peak
5	14788.000	33.35	18.00	51.35	74.00	-22.65	peak
6	16504.000	35.90	19.70	55.60	68.20	-12.60	peak
7	16504.000	20.31	19.70	40.01	/	1	AVG
8	17747.000	29.14	23.75	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.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.
- 6. Owing to the highest peak level of unwanted emission out of the restricted bands are lower than the line(54dBuV/m) in the graph, so all the peak test point was deemed to comply with the limits -27dBm/MHz (68.2dBuV/m) list in the standard CFR 47 FCC §15.407 (b) and ISED RSS-247 6.2.



HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, HORIZONTAL)

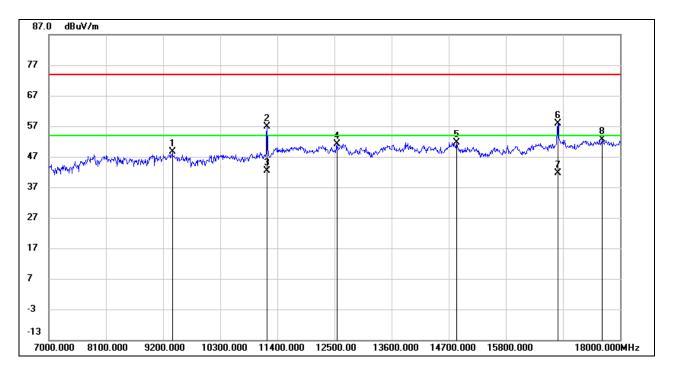


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	8958.000	38.13	10.48	48.61	74.00	-25.39	peak
2	11191.000	40.43	13.78	54.21	74.00	-19.79	peak
3	11191.000	26.42	13.78	40.20	54.00	-13.80	AVG
4	13908.000	34.35	17.54	51.89	74.00	-22.11	peak
5	14821.000	33.76	17.90	51.66	74.00	-22.34	peak
6	16801.000	38.64	20.72	59.36	68.20	-8.84	peak
7	16801.000	25.01	20.72	45.73	/	1	AVG
8	17263.000	30.64	22.38	53.02	74.00	-20.98	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.
- 6. Owing to the highest peak level of unwanted emission out of the restricted bands are lower than the line(54dBuV/m) in the graph, so all the peak test point was deemed to comply with the limits -27dBm/MHz (68.2dBuV/m) list in the standard CFR 47 FCC §15.407 (b) and ISED RSS-247 6.2.



HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, VERTICAL)

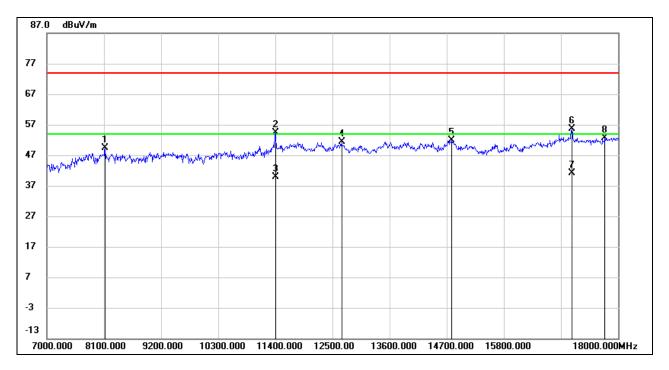


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	9376.000	37.71	10.84	48.55	74.00	-25.45	peak
2	11202.000	43.16	13.79	56.95	74.00	-17.05	peak
3	11202.000	28.51	13.79	42.30	54.00	-11.70	AVG
4	12544.000	35.48	15.72	51.20	74.00	-22.80	peak
5	14854.000	33.96	17.69	51.65	74.00	-22.35	peak
6	16801.000	37.26	20.72	57.98	68.20	-10.22	peak
7	16801.000	20.88	20.72	41.60	/	/	AVG
8	17648.000	29.59	23.08	52.67	74.00	-21.33	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 High Pass Filter losses.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.
- 6. Owing to the highest peak level of unwanted emission out of the restricted bands are lower than the line(54dBuV/m) in the graph, so all the peak test point was deemed to comply with the limits -27dBm/MHz (68.2dBuV/m) list in the standard CFR 47 FCC §15.407 (b) and ISED RSS-247 6.2.



HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, HORIZONTAL)

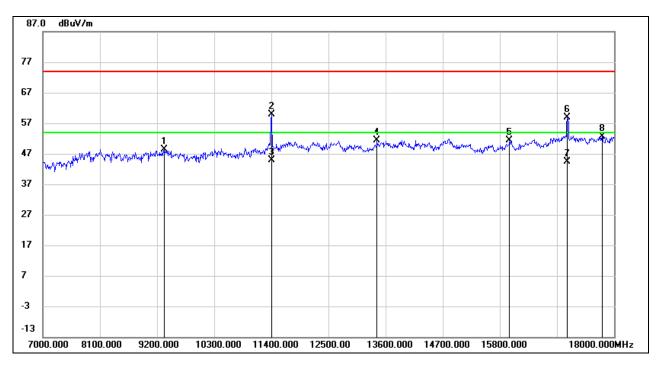


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	8122.000	39.37	10.10	49.47	74.00	-24.53	peak
2	11400.000	39.67	14.76	54.43	74.00	-19.57	peak
3	11400.000	25.23	14.76	39.99	54.00	-14.01	AVG
4	12676.000	35.77	15.66	51.43	74.00	-22.57	peak
5	14799.000	33.75	18.04	51.79	74.00	-22.21	peak
6	17109.000	33.65	21.91	55.56	68.20	-12.64	peak
7	17109.000	19.25	21.91	41.16	/	/	AVG
8	17747.000	28.79	23.75	52.54	74.00	-21.46	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.
- 6. Owing to the highest peak level of unwanted emission out of the restricted bands are lower than the line(54dBuV/m) in the graph, so all the peak test point was deemed to comply with the limits -27dBm/MHz (68.2dBuV/m) list in the standard CFR 47 FCC §15.407 (b) and ISED RSS-247 6.2.



HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, VERTICAL)



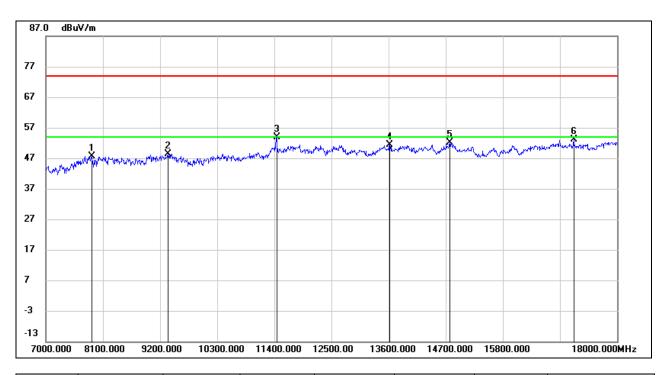
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	9343.000	37.75	10.64	48.39	74.00	-25.61	peak
2	11400.000	45.07	14.76	59.83	74.00	-14.17	peak
3	11400.000	30.20	14.76	44.96	54.00	-9.04	AVG
4	13435.000	34.28	17.09	51.37	74.00	-22.63	peak
5	15987.000	32.90	18.37	51.27	74.00	-22.73	peak
6	17098.000	36.90	21.89	58.79	68.20	-9.41	peak
7	17098.000	22.58	21.89	44.47	/	/	AVG
8	17769.000	28.84	23.87	52.71	74.00	-21.29	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.
- 6. Owing to the highest peak level of unwanted emission out of the restricted bands are lower than the line(54dBuV/m) in the graph, so all the peak test point was deemed to comply with the limits -27dBm/MHz (68.2dBuV/m) list in the standard CFR 47 FCC §15.407 (b) and ISED RSS-247 6.2.



STRADDLE CHANNEL 144

HARMONICS AND SPURIOUS EMISSIONS (HORIZONTAL)

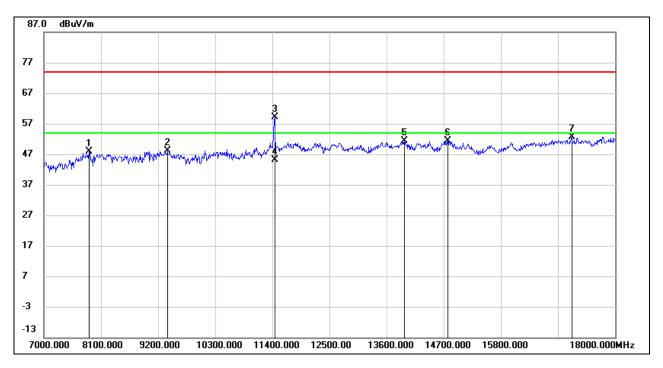


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	7880.000	38.71	8.95	47.66	74.00	-26.34	peak
2	9354.000	37.73	10.70	48.43	74.00	-25.57	peak
3	11444.000	39.13	14.71	53.84	74.00	-20.16	peak
4	13622.000	34.11	17.20	51.31	74.00	-22.69	peak
5	14777.000	34.23	17.96	52.19	74.00	-21.81	peak
6	17164.000	31.15	21.96	53.11	74.00	-20.89	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 High Pass Filter losses.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.
- 6. Owing to the highest peak level of unwanted emission out of the restricted bands are lower than the line(54dBuV/m) in the graph, so all the peak test point was deemed to comply with the limits -27dBm/MHz (68.2dBuV/m) list in the standard CFR 47 FCC §15.407 (b) and ISED RSS-247 6.2.



HARMONICS AND SPURIOUS EMISSIONS (VERTICAL)



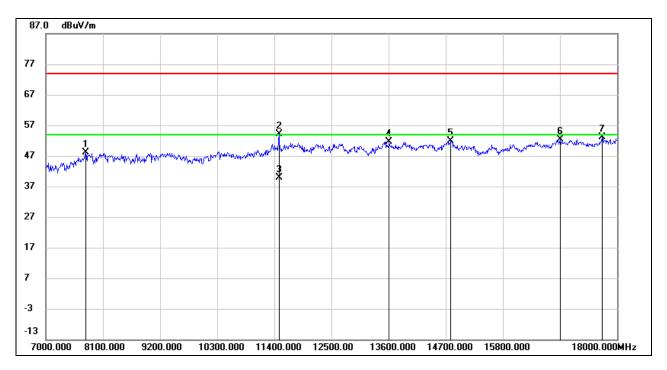
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	7869.000	38.80	9.02	47.82	74.00	-26.18	peak
2	9376.000	37.21	10.84	48.05	74.00	-25.95	peak
3	11444.000	44.54	14.71	59.25	74.00	-14.75	peak
4	11444.000	30.42	14.71	45.13	54.00	-8.87	AVG
5	13941.000	33.84	17.58	51.42	74.00	-22.58	peak
6	14777.000	33.45	17.96	51.41	74.00	-22.59	peak
7	17164.000	30.64	21.96	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.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.
- 6. Owing to the highest peak level of unwanted emission out of the restricted bands are lower than the line(54dBuV/m) in the graph, so all the peak test point was deemed to comply with the limits -27dBm/MHz (68.2dBuV/m) list in the standard CFR 47 FCC §15.407 (b) and ISED RSS-247 6.2.



UNII-3 BAND

HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, HORIZONTAL)

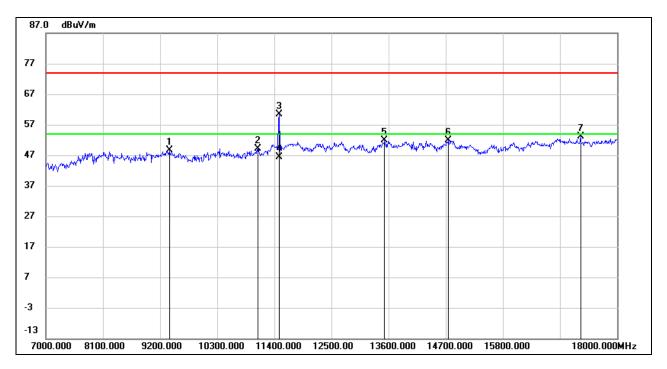


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	7770.000	38.99	9.09	48.08	74.00	-25.92	peak
2	11488.000	39.47	14.66	54.13	74.00	-19.87	peak
3	11488.000	25.30	14.66	39.96	54.00	-14.04	AVG
4	13611.000	34.55	17.15	51.70	74.00	-22.30	peak
5	14799.000	33.78	18.04	51.82	74.00	-22.18	peak
6	16911.000	30.92	21.54	52.46	74.00	-21.54	peak
7	17714.000	29.63	23.55	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.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.
- 6. Owing to the highest peak level of unwanted emission out of the restricted bands are lower than the line(54dBuV/m) in the graph, so all the peak test point was deemed to comply with the limits -27dBm/MHz (68.2dBuV/m) list in the standard CFR 47 FCC §15.407 (b) and ISED RSS-247 6.2.



HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, VERTICAL)

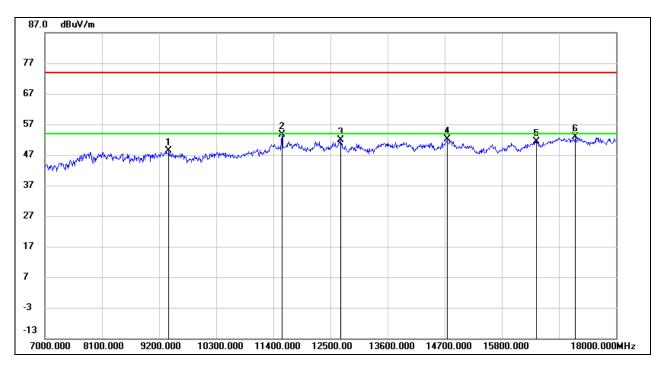


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	9376.000	37.67	10.84	48.51	74.00	-25.49	peak
2	11081.000	35.43	13.70	49.13	74.00	-24.87	peak
3	11488.000	45.65	14.66	60.31	74.00	-13.69	peak
4	11488.000	31.70	14.66	46.36	54.00	-7.64	AVG
5	13523.000	34.77	17.19	51.96	74.00	-22.04	peak
6	14744.000	33.94	17.84	51.78	74.00	-22.22	peak
7	17296.000	30.43	22.59	53.02	74.00	-20.98	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.
- 6. Owing to the highest peak level of unwanted emission out of the restricted bands are lower than the line(54dBuV/m) in the graph, so all the peak test point was deemed to comply with the limits -27dBm/MHz (68.2dBuV/m) list in the standard CFR 47 FCC §15.407 (b) and ISED RSS-247 6.2.



HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, HORIZONTAL)

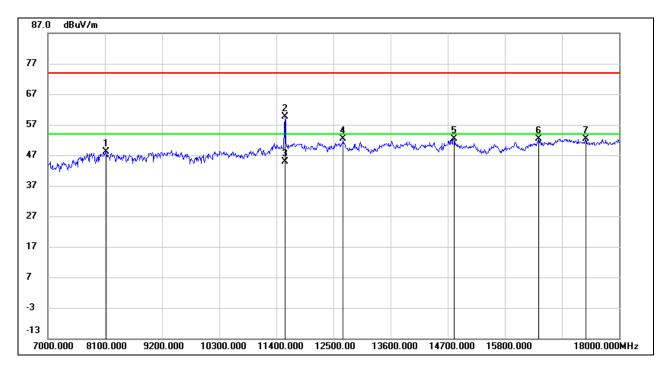


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	9387.000	37.43	10.89	48.32	74.00	-25.68	peak
2	11565.000	39.06	14.69	53.75	74.00	-20.25	peak
3	12698.000	36.14	15.62	51.76	74.00	-22.24	peak
4	14744.000	34.27	17.84	52.11	74.00	-21.89	peak
5	16471.000	31.77	19.68	51.45	74.00	-22.55	peak
6	17219.000	30.77	22.11	52.88	74.00	-21.12	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.
- 6. Owing to the highest peak level of unwanted emission out of the restricted bands are lower than the line(54dBuV/m) in the graph, so all the peak test point was deemed to comply with the limits -27dBm/MHz (68.2dBuV/m) list in the standard CFR 47 FCC §15.407 (b) and ISED RSS-247 6.2.



HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, VERTICAL)

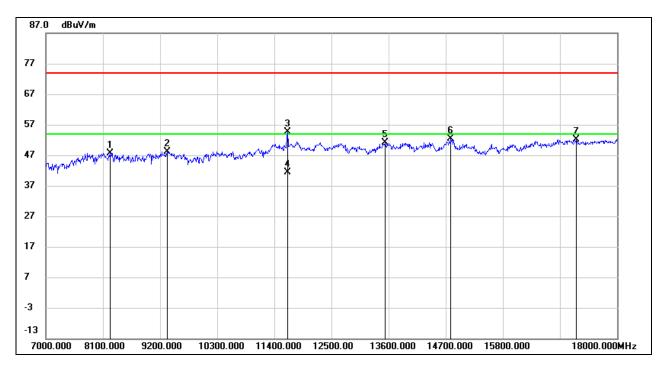


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	8122.000	37.97	10.10	48.07	74.00	-25.93	peak
2	11565.000	44.90	14.69	59.59	74.00	-14.41	peak
3	11565.000	30.10	14.69	44.79	54.00	-9.21	AVG
4	12687.000	36.82	15.64	52.46	74.00	-21.54	peak
5	14821.000	34.40	17.90	52.30	74.00	-21.70	peak
6	16449.000	32.66	19.69	52.35	74.00	-21.65	peak
7	17362.000	30.28	22.15	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.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.
- 6. Owing to the highest peak level of unwanted emission out of the restricted bands are lower than the line(54dBuV/m) in the graph, so all the peak test point was deemed to comply with the limits -27dBm/MHz (68.2dBuV/m) list in the standard CFR 47 FCC §15.407 (b) and ISED RSS-247 6.2.



HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, HORIZONTAL)

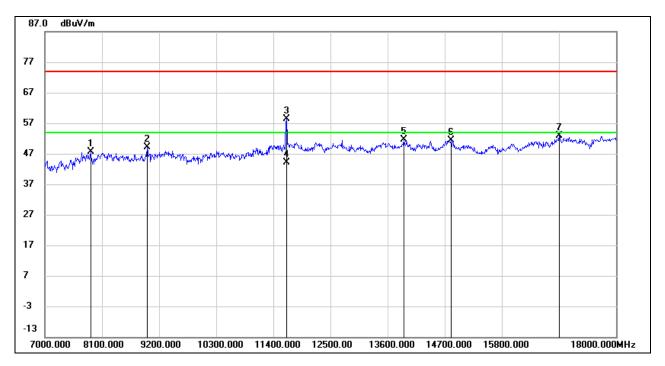


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	8232.000	37.98	9.77	47.75	74.00	-26.25	peak
2	9343.000	37.57	10.64	48.21	74.00	-25.79	peak
3	11653.000	39.63	15.05	54.68	74.00	-19.32	peak
4	11653.000	26.22	15.05	41.27	54.00	-12.73	AVG
5	13534.000	34.01	17.18	51.19	74.00	-22.81	peak
6	14799.000	34.39	18.04	52.43	74.00	-21.57	peak
7	17208.000	30.16	22.04	52.20	74.00	-21.80	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.
- 6. Owing to the highest peak level of unwanted emission out of the restricted bands are lower than the line(54dBuV/m) in the graph, so all the peak test point was deemed to comply with the limits -27dBm/MHz (68.2dBuV/m) list in the standard CFR 47 FCC §15.407 (b) and ISED RSS-247 6.2.



HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, VERTICAL)



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	7880.000	38.69	8.95	47.64	74.00	-26.36	peak
2	8969.000	38.52	10.69	49.21	74.00	-24.79	peak
3	11653.000	43.36	15.05	58.41	74.00	-15.59	peak
4	11653.000	29.07	15.05	44.12	54.00	-9.88	AVG
5	13908.000	33.99	17.54	51.53	74.00	-22.47	peak
6	14821.000	33.45	17.90	51.35	74.00	-22.65	peak
7	16911.000	31.32	21.54	52.86	74.00	-21.14	peak

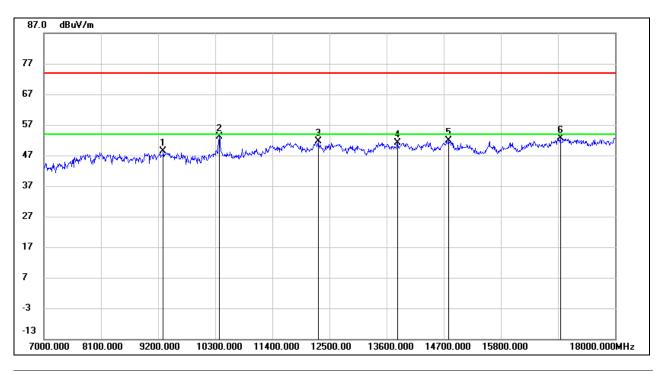
- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.
- 6. Owing to the highest peak level of unwanted emission out of the restricted bands are lower than the line(54dBuV/m) in the graph, so all the peak test point was deemed to comply with the limits -27dBm/MHz (68.2dBuV/m) list in the standard CFR 47 FCC §15.407 (b) and ISED RSS-247 6.2.



8.3.3. 802.11n HT40 MIMO MODE

UNII-1 BAND

HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, HORIZONTAL)

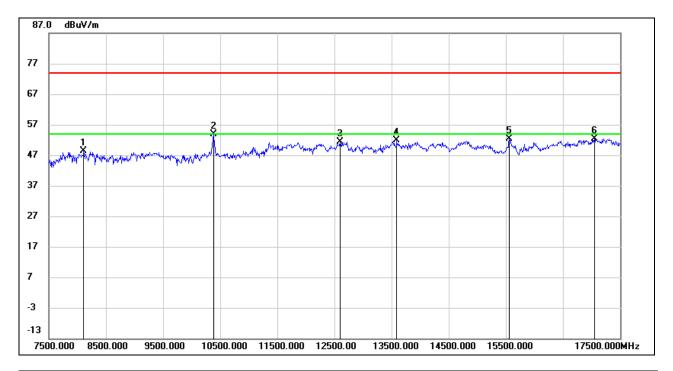


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	9299.000	38.05	10.40	48.45	74.00	-25.55	peak
2	10377.000	41.07	12.13	53.20	74.00	-20.80	peak
3	12280.000	35.49	16.07	51.56	74.00	-22.44	peak
4	13809.000	33.63	17.60	51.23	74.00	-22.77	peak
5	14799.000	33.76	18.04	51.80	74.00	-22.20	peak
6	16944.000	31.32	21.43	52.75	74.00	-21.25	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.
- 6. Owing to the highest peak level of unwanted emission out of the restricted bands are lower than the line(54dBuV/m) in the graph, so all the peak test point was deemed to comply with the limits -27dBm/MHz (68.2dBuV/m) list in the standard CFR 47 FCC §15.407 (b) and ISED RSS-247 6.2.



HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, VERTICAL)

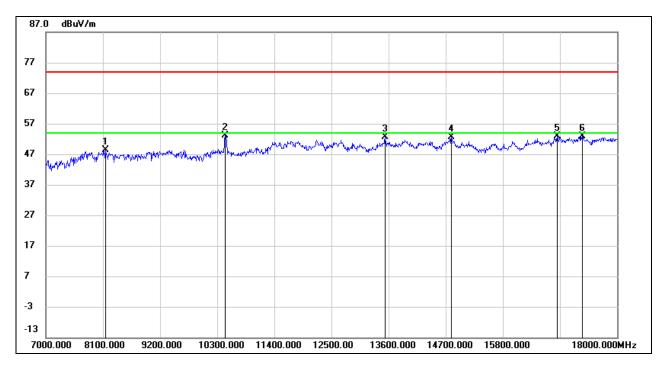


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	8110.000	38.34	10.15	48.49	74.00	-25.51	peak
2	10380.000	41.74	12.15	53.89	74.00	-20.11	peak
3	12600.000	35.48	15.78	51.26	74.00	-22.74	peak
4	13590.000	34.83	17.11	51.94	74.00	-22.06	peak
5	15560.000	34.82	17.44	52.26	74.00	-21.74	peak
6	17050.000	30.82	21.57	52.39	74.00	-21.61	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.
- 6. Owing to the highest peak level of unwanted emission out of the restricted bands are lower than the line(54dBuV/m) in the graph, so all the peak test point was deemed to comply with the limits -27dBm/MHz (68.2dBuV/m) list in the standard CFR 47 FCC §15.407 (b) and ISED RSS-247 6.2.



HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, HORIZONTAL)

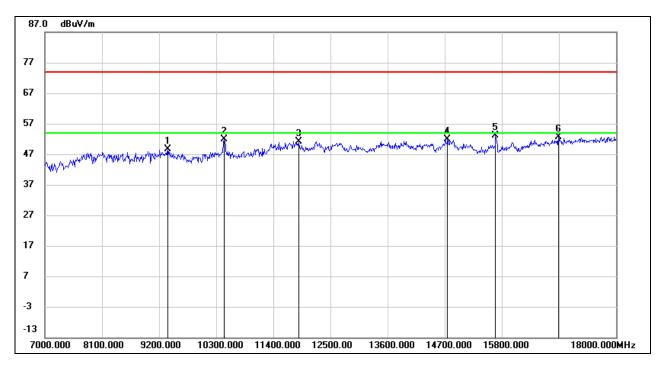


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	8144.000	38.28	10.02	48.30	74.00	-25.70	peak
2	10454.000	40.90	12.31	53.21	74.00	-20.79	peak
3	13534.000	35.35	17.18	52.53	74.00	-21.47	peak
4	14810.000	34.72	17.97	52.69	74.00	-21.31	peak
5	16845.000	31.73	21.10	52.83	74.00	-21.17	peak
6	17329.000	30.49	22.39	52.88	74.00	-21.12	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.
- 6. Owing to the highest peak level of unwanted emission out of the restricted bands are lower than the line(54dBuV/m) in the graph, so all the peak test point was deemed to comply with the limits -27dBm/MHz (68.2dBuV/m) list in the standard CFR 47 FCC §15.407 (b) and ISED RSS-247 6.2.



HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, VERTICAL)



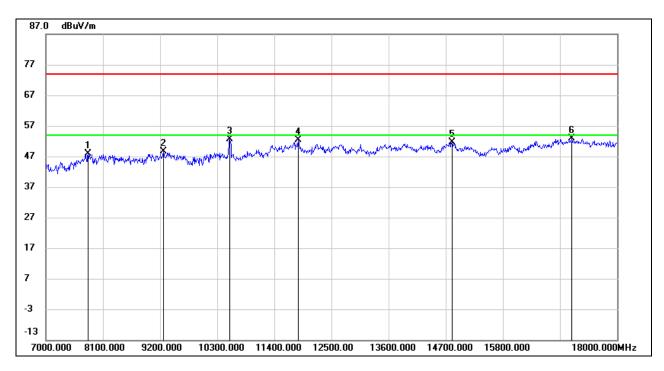
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	9365.000	37.98	10.77	48.75	74.00	-25.25	peak
2	10454.000	39.60	12.31	51.91	74.00	-22.09	peak
3	11884.000	35.66	15.47	51.13	74.00	-22.87	peak
4	14755.000	34.00	17.88	51.88	74.00	-22.12	peak
5	15679.000	35.32	17.80	53.12	74.00	-20.88	peak
6	16889.000	31.26	21.47	52.73	74.00	-21.27	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 High Pass Filter losses.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.
- 6. Owing to the highest peak level of unwanted emission out of the restricted bands are lower than the line(54dBuV/m) in the graph, so all the peak test point was deemed to comply with the limits -27dBm/MHz (68.2dBuV/m) list in the standard CFR 47 FCC §15.407 (b) and ISED RSS-247 6.2.



UNII-2A BAND

HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, HORIZONTAL)

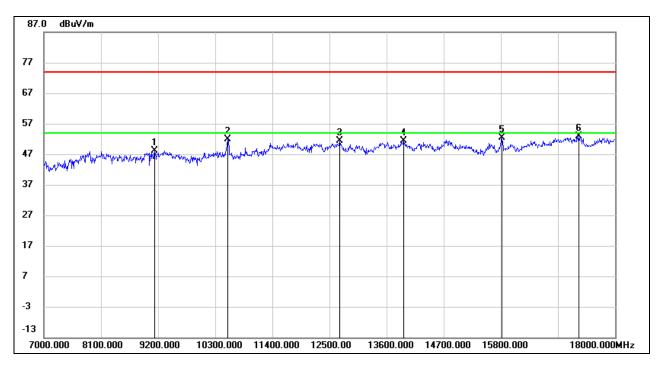


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	7814.000	38.72	9.28	48.00	74.00	-26.00	peak
2	9266.000	38.39	10.23	48.62	74.00	-25.38	peak
3	10542.000	40.20	12.50	52.70	74.00	-21.30	peak
4	11862.000	37.01	15.41	52.42	74.00	-21.58	peak
5	14821.000	33.80	17.90	51.70	74.00	-22.30	peak
6	17131.000	30.84	21.92	52.76	74.00	-21.24	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.
- 6. Owing to the highest peak level of unwanted emission out of the restricted bands are lower than the line(54dBuV/m) in the graph, so all the peak test point was deemed to comply with the limits -27dBm/MHz (68.2dBuV/m) list in the standard CFR 47 FCC §15.407 (b) and ISED RSS-247 6.2.



HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, VERTICAL)

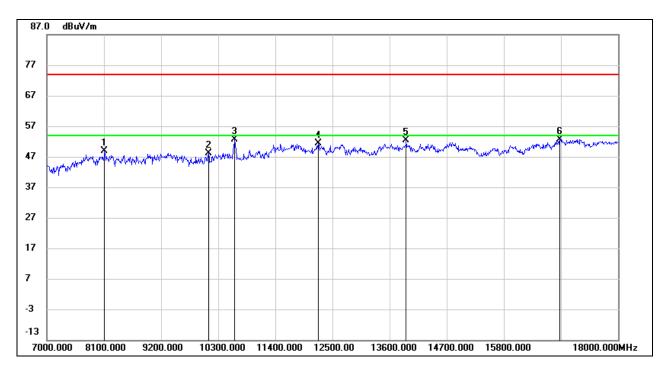


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	9134.000	38.08	10.06	48.14	74.00	-25.86	peak
2	10542.000	39.44	12.50	51.94	74.00	-22.06	peak
3	12698.000	35.71	15.62	51.33	74.00	-22.67	peak
4	13930.000	33.78	17.57	51.35	74.00	-22.65	peak
5	15822.000	34.30	18.00	52.30	74.00	-21.70	peak
6	17307.000	30.38	22.56	52.94	74.00	-21.06	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.
- 6. Owing to the highest peak level of unwanted emission out of the restricted bands are lower than the line(54dBuV/m) in the graph, so all the peak test point was deemed to comply with the limits -27dBm/MHz (68.2dBuV/m) list in the standard CFR 47 FCC §15.407 (b) and ISED RSS-247 6.2.



HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, HORIZONTAL)

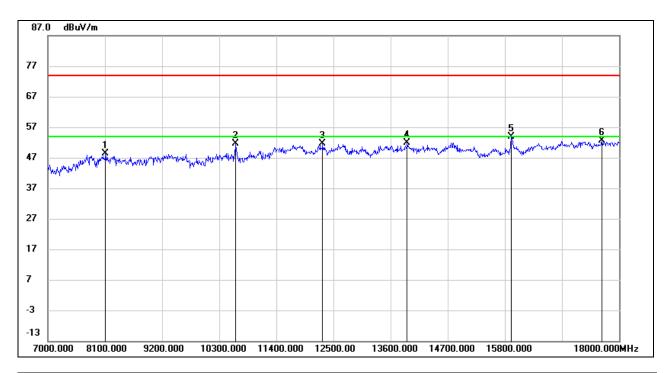


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	8111.000	38.72	10.14	48.86	74.00	-25.14	peak
2	10113.000	36.91	11.15	48.06	74.00	-25.94	peak
3	10619.000	40.02	12.72	52.74	74.00	-21.26	peak
4	12225.000	35.31	15.99	51.30	74.00	-22.70	peak
5	13919.000	34.76	17.55	52.31	74.00	-21.69	peak
6	16878.000	31.30	21.38	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.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.
- 6. Owing to the highest peak level of unwanted emission out of the restricted bands are lower than the line(54dBuV/m) in the graph, so all the peak test point was deemed to comply with the limits -27dBm/MHz (68.2dBuV/m) list in the standard CFR 47 FCC §15.407 (b) and ISED RSS-247 6.2.



HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, VERTICAL)



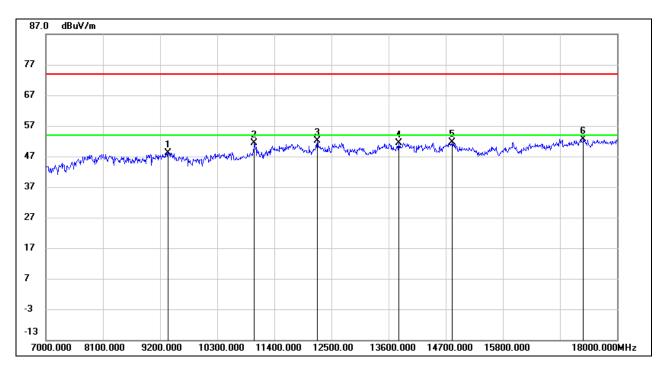
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	8111.000	38.30	10.14	48.44	74.00	-25.56	peak
2	10619.000	38.86	12.72	51.58	74.00	-22.42	peak
3	12291.000	35.53	16.08	51.61	74.00	-22.39	peak
4	13919.000	34.33	17.55	51.88	74.00	-22.12	peak
5	15921.000	35.76	18.14	53.90	74.00	-20.10	peak
6	17670.000	29.35	23.24	52.59	74.00	-21.41	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.
- 6. Owing to the highest peak level of unwanted emission out of the restricted bands are lower than the line(54dBuV/m) in the graph, so all the peak test point was deemed to comply with the limits -27dBm/MHz (68.2dBuV/m) list in the standard CFR 47 FCC §15.407 (b) and ISED RSS-247 6.2.



UNII-2C BAND

HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, HORIZONTAL)

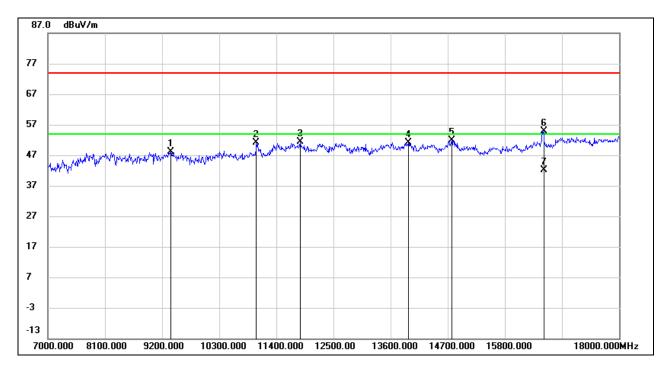


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	9354.000	37.53	10.70	48.23	74.00	-25.77	peak
2	11015.000	37.95	13.38	51.33	74.00	-22.67	peak
3	12225.000	36.07	15.99	52.06	74.00	-21.94	peak
4	13798.000	33.85	17.61	51.46	74.00	-22.54	peak
5	14821.000	33.76	17.90	51.66	74.00	-22.34	peak
6	17351.000	30.48	22.23	52.71	74.00	-21.29	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.
- 6. Owing to the highest peak level of unwanted emission out of the restricted bands are lower than the line(54dBuV/m) in the graph, so all the peak test point was deemed to comply with the limits -27dBm/MHz (68.2dBuV/m) list in the standard CFR 47 FCC §15.407 (b) and ISED RSS-247 6.2.



HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, VERTICAL)

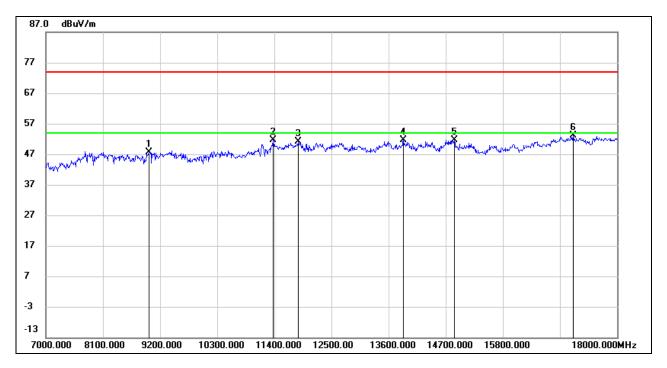


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	9365.000	37.35	10.77	48.12	74.00	-25.88	peak
2	11015.000	37.70	13.38	51.08	74.00	-22.92	peak
3	11862.000	35.90	15.41	51.31	74.00	-22.69	peak
4	13941.000	33.61	17.58	51.19	74.00	-22.81	peak
5	14777.000	33.83	17.96	51.79	74.00	-22.21	peak
6	16548.000	35.09	19.85	54.94	68.20	-13.26	peak
7	16548.000	22.38	19.85	42.23	/	/	AVG

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.
- 6. Owing to the highest peak level of unwanted emission out of the restricted bands are lower than the line(54dBuV/m) in the graph, so all the peak test point was deemed to comply with the limits -27dBm/MHz (68.2dBuV/m) list in the standard CFR 47 FCC §15.407 (b) and ISED RSS-247 6.2.



HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, HORIZONTAL)

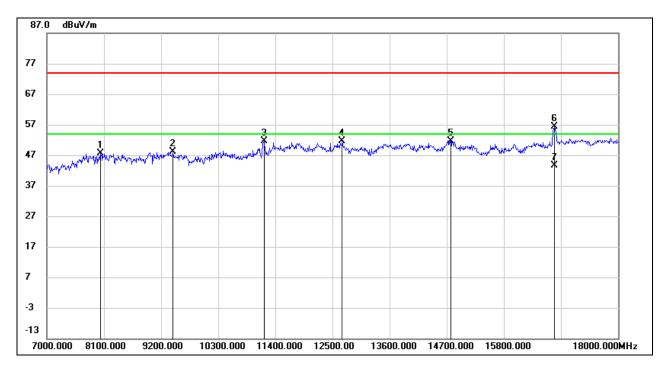


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	8991.000	36.62	11.10	47.72	74.00	-26.28	peak
2	11378.000	37.02	14.55	51.57	74.00	-22.43	peak
3	11862.000	35.81	15.41	51.22	74.00	-22.78	peak
4	13886.000	33.97	17.54	51.51	74.00	-22.49	peak
5	14865.000	34.01	17.61	51.62	74.00	-22.38	peak
6	17153.000	31.22	21.95	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.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.
- 6. Owing to the highest peak level of unwanted emission out of the restricted bands are lower than the line(54dBuV/m) in the graph, so all the peak test point was deemed to comply with the limits -27dBm/MHz (68.2dBuV/m) list in the standard CFR 47 FCC §15.407 (b) and ISED RSS-247 6.2.



HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, VERTICAL)

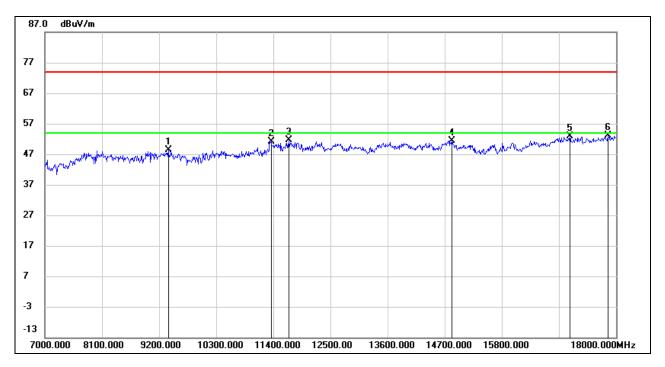


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	8034.000	38.54	9.15	47.69	74.00	-26.31	peak
2	9431.000	37.31	10.83	48.14	74.00	-25.86	peak
3	11180.000	37.86	13.79	51.65	74.00	-22.35	peak
4	12687.000	35.90	15.64	51.54	74.00	-22.46	peak
5	14777.000	33.79	17.96	51.75	74.00	-22.25	peak
6	16779.000	35.86	20.55	56.41	68.20	-11.79	peak
7	16779.000	23.11	20.55	43.66	/	/	AVG

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.
- 6. Owing to the highest peak level of unwanted emission out of the restricted bands are lower than the line(54dBuV/m) in the graph, so all the peak test point was deemed to comply with the limits -27dBm/MHz (68.2dBuV/m) list in the standard CFR 47 FCC §15.407 (b) and ISED RSS-247 6.2.



HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, HORIZONTAL)

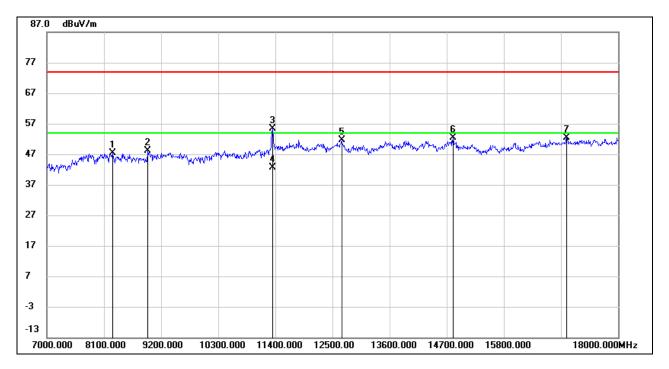


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	9376.000	37.61	10.84	48.45	74.00	-25.55	peak
2	11356.000	36.80	14.35	51.15	74.00	-22.85	peak
3	11697.000	36.17	15.34	51.51	74.00	-22.49	peak
4	14843.000	33.54	17.76	51.30	74.00	-22.70	peak
5	17109.000	30.99	21.91	52.90	74.00	-21.10	peak
6	17846.000	29.09	23.98	53.07	74.00	-20.93	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.
- 6. Owing to the highest peak level of unwanted emission out of the restricted bands are lower than the line(54dBuV/m) in the graph, so all the peak test point was deemed to comply with the limits -27dBm/MHz (68.2dBuV/m) list in the standard CFR 47 FCC §15.407 (b) and ISED RSS-247 6.2.



HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, VERTICAL)



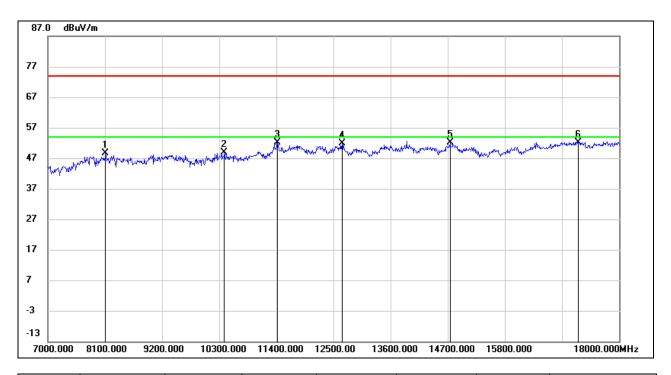
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	8265.000	37.55	9.73	47.28	74.00	-26.72	peak
2	8947.000	37.89	10.27	48.16	74.00	-25.84	peak
3	11345.000	41.14	14.26	55.40	74.00	-18.60	peak
4	11345.000	28.27	14.26	42.53	54.00	-11.47	AVG
5	12676.000	35.90	15.66	51.56	74.00	-22.44	peak
6	14821.000	34.48	17.90	52.38	74.00	-21.62	peak
7	17010.000	31.18	21.31	52.49	74.00	-21.51	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.
- 6. Owing to the highest peak level of unwanted emission out of the restricted bands are lower than the line(54dBuV/m) in the graph, so all the peak test point was deemed to comply with the limits -27dBm/MHz (68.2dBuV/m) list in the standard CFR 47 FCC §15.407 (b) and ISED RSS-247 6.2.



STRADDLE CHANNEL 142

HARMONICS AND SPURIOUS EMISSIONS (HORIZONTAL)

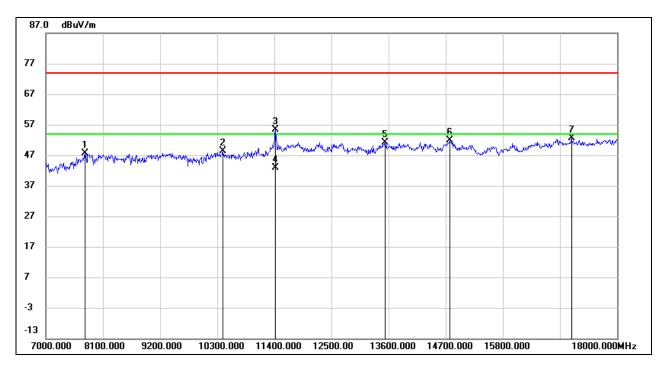


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	8111.000	38.51	10.14	48.65	74.00	-25.35	peak
2	10399.000	36.72	12.23	48.95	74.00	-25.05	peak
3	11422.000	37.40	14.73	52.13	74.00	-21.87	peak
4	12665.000	36.23	15.68	51.91	74.00	-22.09	peak
5	14744.000	34.39	17.84	52.23	74.00	-21.77	peak
6	17219.000	30.14	22.11	52.25	74.00	-21.75	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.
- 6. Owing to the highest peak level of unwanted emission out of the restricted bands are lower than the line(54dBuV/m) in the graph, so all the peak test point was deemed to comply with the limits -27dBm/MHz (68.2dBuV/m) list in the standard CFR 47 FCC §15.407 (b) and ISED RSS-247 6.2.



HARMONICS AND SPURIOUS EMISSIONS (VERTICAL)



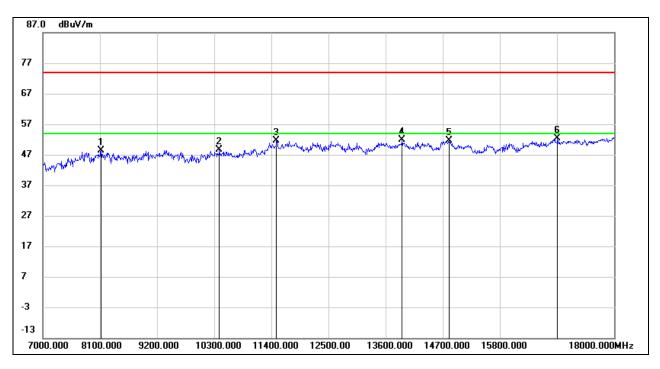
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	7748.000	38.83	8.88	47.71	74.00	-26.29	peak
2	10410.000	36.21	12.25	48.46	74.00	-25.54	peak
3	11422.000	40.75	14.73	55.48	74.00	-18.52	peak
4	11422.000	28.13	14.73	42.86	54.00	-11.14	AVG
5	13534.000	33.99	17.18	51.17	74.00	-22.83	peak
6	14777.000	33.81	17.96	51.77	74.00	-22.23	peak
7	17120.000	30.78	21.92	52.70	74.00	-21.30	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.
- 6. Owing to the highest peak level of unwanted emission out of the restricted bands are lower than the line(54dBuV/m) in the graph, so all the peak test point was deemed to comply with the limits -27dBm/MHz (68.2dBuV/m) list in the standard CFR 47 FCC §15.407 (b) and ISED RSS-247 6.2.



UNII-3 BAND

HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, HORIZONTAL)

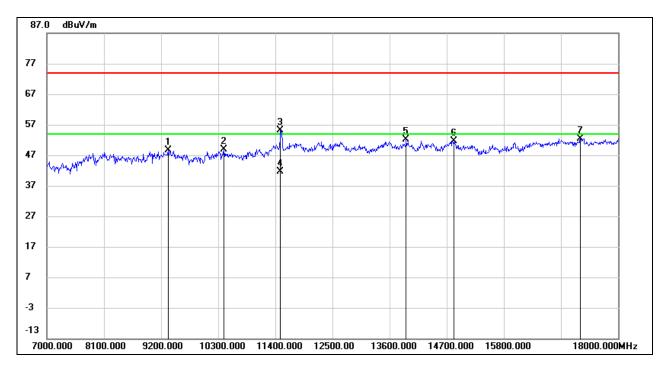


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	8122.000	38.17	10.10	48.27	74.00	-25.73	peak
2	10399.000	36.32	12.23	48.55	74.00	-25.45	peak
3	11499.000	37.09	14.65	51.74	74.00	-22.26	peak
4	13919.000	34.24	17.55	51.79	74.00	-22.21	peak
5	14821.000	33.64	17.90	51.54	74.00	-22.46	peak
6	16911.000	30.82	21.54	52.36	74.00	-21.64	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.
- 6. Owing to the highest peak level of unwanted emission out of the restricted bands are lower than the line(54dBuV/m) in the graph, so all the peak test point was deemed to comply with the limits -27dBm/MHz (68.2dBuV/m) list in the standard CFR 47 FCC §15.407 (b) and ISED RSS-247 6.2.



HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, VERTICAL)

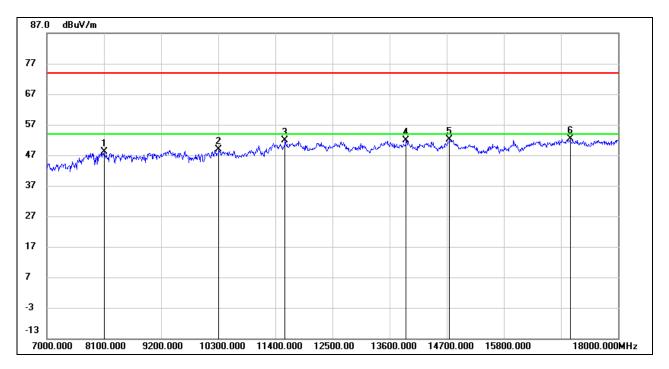


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	9332.000	37.99	10.59	48.58	74.00	-25.42	peak
2	10410.000	36.51	12.25	48.76	74.00	-25.24	peak
3	11499.000	40.45	14.65	55.10	74.00	-18.90	peak
4	11499.000	26.98	14.65	41.63	54.00	-12.37	AVG
5	13919.000	34.46	17.55	52.01	74.00	-21.99	peak
6	14843.000	33.92	17.76	51.68	74.00	-22.32	peak
7	17274.000	29.97	22.45	52.42	74.00	-21.58	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 High Pass Filter losses.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.
- 6. Owing to the highest peak level of unwanted emission out of the restricted bands are lower than the line(54dBuV/m) in the graph, so all the peak test point was deemed to comply with the limits -27dBm/MHz (68.2dBuV/m) list in the standard CFR 47 FCC §15.407 (b) and ISED RSS-247 6.2.



HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, HORIZONTAL)

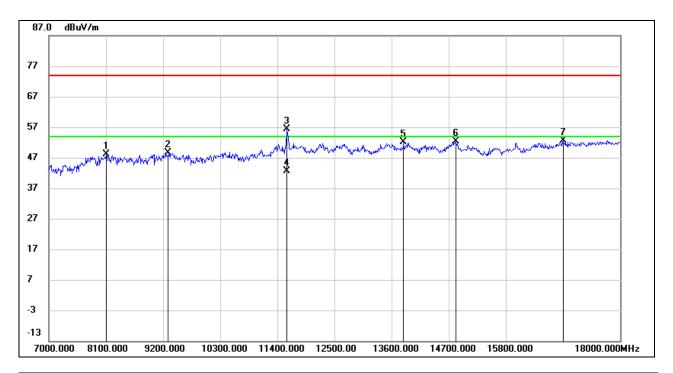


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	8100.000	38.07	10.18	48.25	74.00	-25.75	peak
2	10311.000	36.95	11.86	48.81	74.00	-25.19	peak
3	11587.000	37.05	14.72	51.77	74.00	-22.23	peak
4	13919.000	34.29	17.55	51.84	74.00	-22.16	peak
5	14755.000	34.37	17.88	52.25	74.00	-21.75	peak
6	17076.000	30.52	21.74	52.26	74.00	-21.74	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.
- 6. Owing to the highest peak level of unwanted emission out of the restricted bands are lower than the line(54dBuV/m) in the graph, so all the peak test point was deemed to comply with the limits -27dBm/MHz (68.2dBuV/m) list in the standard CFR 47 FCC §15.407 (b) and ISED RSS-247 6.2.



HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, VERTICAL)



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	8100.000	38.03	10.18	48.21	74.00	-25.79	peak
2	9299.000	38.13	10.40	48.53	74.00	-25.47	peak
3	11587.000	41.58	14.72	56.30	74.00	-17.70	peak
4	11587.000	27.90	14.72	42.62	54.00	-11.38	AVG
5	13831.000	34.49	17.59	52.08	74.00	-21.92	peak
6	14832.000	34.63	17.83	52.46	74.00	-21.54	peak
7	16900.000	31.02	21.57	52.59	74.00	-21.41	peak

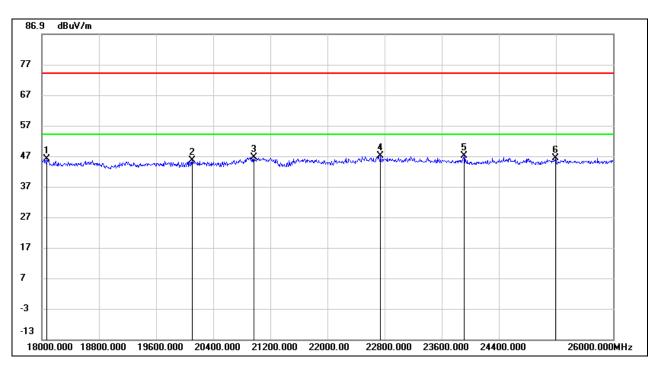
- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.
- 6. Owing to the highest peak level of unwanted emission out of the restricted bands are lower than the line(54dBuV/m) in the graph, so all the peak test point was deemed to comply with the limits -27dBm/MHz (68.2dBuV/m) list in the standard CFR 47 FCC §15.407 (b) and ISED RSS-247 6.2.



8.4. SPURIOUS EMISSIONS (18 GHz ~ 26 GHz)

8.4.1. 802.11n HT40 MODE

SPURIOUS EMISSIONS (UNII-2C BAND HIGH CHANNEL, HORIZONTAL, WORST-CASE CONFIGURATION)

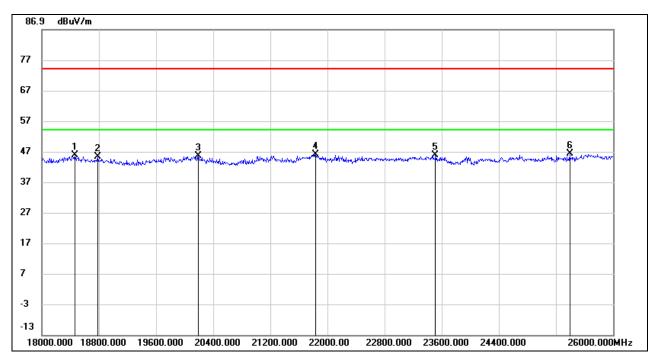


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	18072.000	50.05	-4.02	46.03	74.00	-27.97	peak
2	20104.000	50.09	-4.58	45.51	74.00	-28.49	peak
3	20968.000	51.83	-5.26	46.57	74.00	-27.43	peak
4	22744.000	52.68	-5.74	46.94	74.00	-27.06	peak
5	23912.000	51.32	-4.23	47.09	74.00	-26.91	peak
6	25192.000	47.49	-1.16	46.33	74.00	-27.67	peak

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



SPURIOUS EMISSIONS (UNII-2C BAND HIGH CHANNEL, VERTICAL, WORST-CASE CONFIGURATION)



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	18464.000	50.20	-4.39	45.81	74.00	-28.19	peak
2	18784.000	50.05	-4.84	45.21	74.00	-28.79	peak
3	20192.000	50.37	-4.76	45.61	74.00	-28.39	peak
4	21832.000	52.03	-5.92	46.11	74.00	-27.89	peak
5	23512.000	50.51	-4.76	45.75	74.00	-28.25	peak
6	25392.000	47.82	-1.55	46.27	74.00	-27.73	peak

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

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

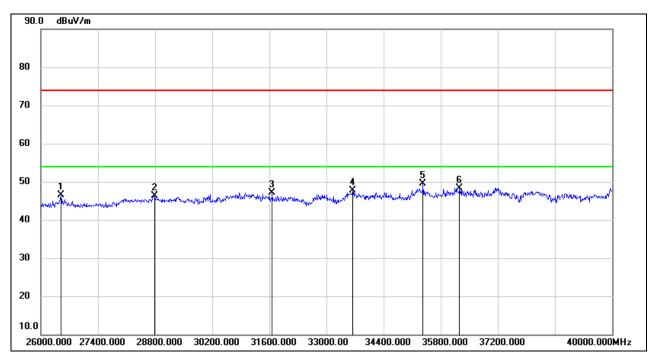
Note: All the modes and antennas had been tested, but only the worst data was recorded in the report.



8.5. SPURIOUS EMISSIONS (26 GHz ~ 40 GHz)

8.5.1. 802.11n HT40 MODE

SPURIOUS EMISSIONS (UNII-2C BAND HIGH CHANNEL, HORIZONTAL, WORST-CASE CONFIGURATION)

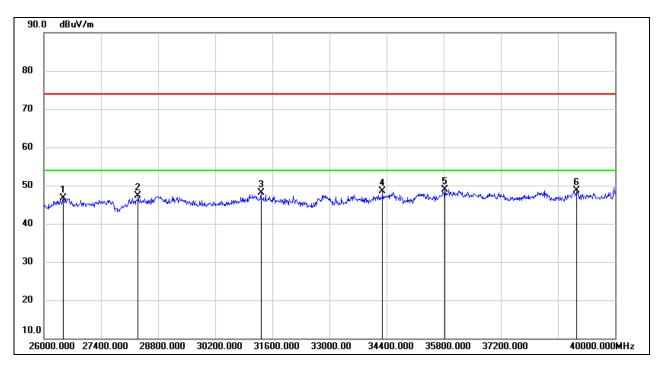


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	26490.000	51.29	-4.74	46.55	74.00	-27.45	peak
2	28786.000	46.99	-0.64	46.35	74.00	-27.65	peak
3	31670.000	48.36	-1.21	47.15	74.00	-26.85	peak
4	33644.000	47.31	0.42	47.73	74.00	-26.27	peak
5	35366.000	46.90	2.59	49.49	74.00	-24.51	peak
6	36262.000	45.10	3.28	48.38	74.00	-25.62	peak

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



SPURIOUS EMISSIONS (UNII-2C BAND HIGH CHANNEL, VERTICAL, WORST-CASE CONFIGURATION)



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	26476.000	51.53	-4.78	46.75	74.00	-27.25	peak
2	28310.000	49.67	-2.46	47.21	74.00	-26.79	peak
3	31320.000	49.11	-0.93	48.18	74.00	-25.82	peak
4	34302.000	47.45	1.10	48.55	74.00	-25.45	peak
5	35828.000	45.25	3.67	48.92	74.00	-25.08	peak
6	39062.000	44.48	4.30	48.78	74.00	-25.22	peak

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

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

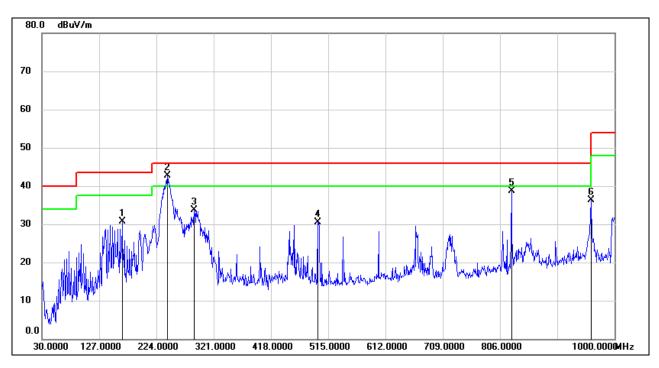
Note: All the modes and antennas had been tested, but only the worst data was recorded in the report.



8.6. SPURIOUS EMISSIONS (30 MHz ~ 1 GHz)

8.6.1. 802.11n HT40 MODE

SPURIOUS EMISSIONS (UNII-2C BAND HIGH CHANNEL, HORIZONTAL, WORST-CASE CONFIGURATION)



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	165.8000	48.13	-17.51	30.62	43.50	-12.88	QP
2	242.4300	61.76	-19.12	42.64	46.00	-3.36	QP
3	288.0200	49.83	-16.06	33.77	46.00	-12.23	QP
4	497.5400	42.08	-11.52	30.56	46.00	-15.44	QP
5	825.4000	45.53	-6.78	38.75	46.00	-7.25	QP
6	960.2300	40.85	-4.54	36.31	54.00	-17.69	QP

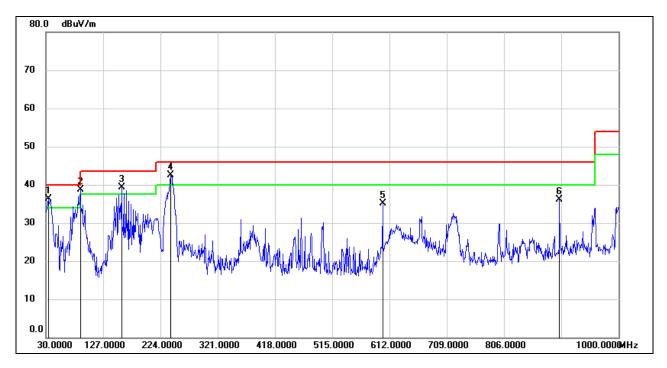
Note: 1. Result Level = Read Level + Correct Factor.

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

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



SPURIOUS EMISSIONS (UNII-1 BAND LOW CHANNEL, VERTICAL, WORST-CASE CONFIGURATION)



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	34.8500	55.71	-19.40	36.31	40.00	-3.69	QP
2	88.2000	60.60	-21.85	38.75	43.50	-4.75	QP
3	158.0399	57.16	-17.85	39.31	43.50	-4.19	QP
4	241.4600	61.71	-19.14	42.57	46.00	-3.43	QP
5	600.3600	44.72	-9.54	35.18	46.00	-10.82	QP
6	900.0900	41.39	-5.21	36.18	46.00	-9.82	QP

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

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

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