



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

CERTIFICATION TEST REPORT

For

Room Scheduling Panel

MODEL NUMBER: RoomPanel

FCC ID: T2C-ROOMPANEL

IC: 10741A-ROOMPANEL

REPORT NUMBER: 4789992710.1-3

ISSUE DATE: August 27, 2021

Prepared for

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Revision History

Rev.	Issue Date	Revisions	Revised By
V0	08/27/2021	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 6.7	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:	Yealink (XIAMEN) Network Technology Co Ltd
Address:	Room 309, 3rd Floor, No.16, Yun Ding North Road, High Tech
	Park, Huli District, Xiamen, Fujian, China

Manufacturer Information

Company Name:	Yealink (XIAMEN) Network Technology Co Ltd
Address:	Room 309, 3rd Floor, No.16, Yun Ding North Road, High Tech
	Park, Huli District, Xiamen, Fujian, China

EUT Information

EUT Name:	Room Scheduling Panel
Model:	RoomPanel
Sample Received Date:	June 28, 2021
Sample Status:	Normal
Sample ID:	4026875
Date of Tested:	July 1, 2021 ~ August 27,

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

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2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with 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

Accreditation Certificate	A2LA (Certificate No.: 4102.01) UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. has been assessed and proved to be in compliance with A2LA. FCC (FCC Designation No.: CN1187) UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. Has been recognized to perform compliance testing on equipment subject to the Commission's Delcaration of Conformity (DoC) and Certification rules ISED (Company No.: 21320) UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. has been registered and fully described in a report filed with ISED. The Company Number is 21320 and the test lab Conformity Assessment Body Identifier (CABID) is CN0046. VCCI (Registration No.: C. 20012 and T. 20011)
	to the Commission's Delcaration of Conformity (DoC) and Certification
	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
	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
	5.78 dB (1 GHz-18 GHz)
Radiated Emission (Included Fundamental Emission) (1 GHz to 40 GHz)	5.23dB (18 GHz-26 GHz)
	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	Room Scheduling Panel
Model	RoomPanel
Radio Technology	WLAN (IEEE 802.11a 20/n HT20/n HT40/ac VHT20/VHT 40/VHT 80)
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 20: OFDM (64QAM, 16QAM, QPSK, BPSK) IEEE 802.11n HT20: OFDM (64QAM, 16QAM, QPSK, BPSK) IEEE 802.11n HT40: OFDM (64QAM, 16QAM, QPSK, BPSK) IEEE 802.11ac VHT20: OFDM (256QAM, 64QAM, 16QAM, QPSK, BPSK) IEEE 802.11ac VHT40: OFDM (256QAM, 64QAM, 16QAM, QPSK, BPSK) IEEE 802.11ac VHT80: OFDM (256QAM, 64QAM, 16QAM, QPSK, BPSK)
Power Supply	AC 120 V



5.2. MAXIMUM OUTPUT POWER

UNII-1 BAND(FCC&ISED)

IEEE Std. 802.11	Frequency (MHz)	Maximum Average Conducted Power (dBm)	Max Average EIRP (dBm)
a 20		14.25	17.25
n HT20		14.19	17.19
n HT40	5150 ~ 5250	14.46	17.46
ac VHT20	0100 - 0200	14.39	17.39
ac VHT40		16.96	19.96
ac VHT80		16.97	19.97

UNII-2A BAND(FCC&ISED)

IEEE Std. 802.11	Frequency (MHz)	Maximum Average Conducted Power (dBm)	
a 20		14.12	
n HT20		14.94	
n HT40	5250 ~ 5350	14.04	
ac VHT20	5256 ~ 5556	15.09	
ac VHT40		16.01	
ac VHT80		16.52	

UNII-2C BAND(FCC&ISED)

IEEE Std. 802.11	Frequency (MHz)	Maximum Average Conducted Power (dBm)		
a 20		14.80		
n HT20		16.01		
n HT40	5470 ~ 5725	14.86		
ac VHT20	3470 ~ 3723	16.09		
ac VHT40		16.69		
ac VHT80		18.09		

UNII-3 BAND(FCC&ISED)

IEEE Std. 802.11	Frequency (MHz)	Maximum Average Conducted Power (dBm)	
a 20		12.95	
n HT20		13.55	
n HT40	5725 ~ 5850	13.35	
ac VHT20	3723 ~ 3030	14.31	
ac VHT40		15.52	
ac VHT80		16.30	

5.3. CHANNEL LIST

UNII-1 (For Bandwidth=20MHz)		UNII-1 (For Bandwidth=40MHz)		UNII-1 (For Bondwidth, 20MHz)		
(FOI Bandwid	an=20ivinz)	(FOI Danuwi	an=40 MHZ)	(FOI Danuwi	(For Bandwidth=80MHz)	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	
36	5180	38	5190	42	5210	
40	5200	46	5230			
44	5220					
48	5240					

UNII-2A		UNII-2A		UNII-2A	
(For Bandwid	(For Bandwidth=20MHz)		(For Bandwidth=40MHz)		dth=80MHz)
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
52	5260	54	5270	58	5290
56	5280	62	5310		
60	5300				
64	5320				

UNII-2C		UNII-2C		UNII-2C	
(For Bandwid	th=20MHz)	(For Bandwi	dth=40MHz)	(For Bandwi	dth=80MHz)
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
100	5500	102	5510	106	5530
104	5520	110	5550	122	5610
108	5540	118	5590	138	5690
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		UNII-3	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
149	5745	151	5755	155	5775
153	5765	159	5795		
157	5785				
161	5805				
165	5825				

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5.4. DESCRIPTION OF AVAILABLE ANTENNAS
--

Antenna No.	Frequency Band	Antenna Type	Maximum Antenna Gain (dBi)
1	UNII1&UNII-2A& UNII-2C&UNII3	PIFA antenna	3
2	UNII1&UNII-2A& UNII-2C&UNII3	PIFA antenna	3

The EUT support Cyclic Shift Diversity (CDD) mode.

MIMO output power port and MIMO PSD port summing was performed in accordance with KDB 662911 D01. For the CDD results the Directional Gain was calculated in accordance with the following mothed.

For output power measurements: Directional gain= G_{ANT} + Array Gain = 3 dBi G_{ANT} : equal to the gain of the antenna having the highest gain Array Gain = 0 dB (i.e., no array gain) for $N_{ANT} \le 4$

For power spectral density (PSD) measurements:

Directional gain= G_{ANT} + Array Gain = 6.01 dBi

Array Gain = 10 log (N_{ANT}/N_{SS}) dB.

N_{ANT}: number of transmit antennas

 N_{SS} : number of spatial streams, the worst case directional gain will occur when $N_{SS} = 1$

IEEE Std. 802.11	Transmit and Receive Mode	Description
a 20	⊠2TX, 2RX	ANT 1, 2 can be used as transmitting/receiving antenna.
n HT20	⊠2TX, 2RX	ANT 1, 2 can be used as transmitting/receiving antenna.
n HT40	⊠2TX, 2RX	ANT 1, 2 can be used as transmitting/receiving antenna.
ac VHT20	⊠2TX, 2RX	ANT 1, 2 can be used as transmitting/receiving antenna.
ac VHT40	⊠2TX, 2RX	ANT 1, 2 can be used as transmitting/receiving antenna.
ac VHT80	⊠2TX, 2RX	ANT 1, 2 can be used as transmitting/receiving antenna.

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



5.5. THE WORSE CASE POWER SETTING PARAMETER

The Worse Case Power Setting Parameter							
Test Software	QRCT						
	UNII-1						
Mode	Rate	Channel	Software Se	tting Value			
WOUE	Nale	Channel	ANT 1	ANT 2			
		36	10	10			
11a 20	6M	40	10	10			
		48	10	10			
		36	10	10			
11n HT20	MCS0	40	10	10			
		48	10	10			
11n HT40	MCS0	38	10	10			
1111 H140	IVIC30	46	10	10			
		36	10	10			
11ac VHT20	MCS0	40	10	10			
		48	10	10			
11ac VHT40	MCS0	38	12	12			
		46	12	12			
11ac VHT80	MCS0	42	13	13			

UNII-2A

Mada	Dete		Software Se	etting Value
Mode	Rate	Channel	ANT 1	ANT 2
		52	10	10
11a 20	6M	56	10	10
		64	10	10
		52	11	11
11n HT20	MCS0	56	11	11
		64	11	11
11n HT40	MCS0	54	10	10
11111140	10030	62	10	10
		52	11	11
11ac VHT20	MCS0	56	11	11
		64	11	11
11ac VHT40	MCS0	54	12	12
		62	12	12
11ac VHT80	MCS0	58	13	13

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UNII-2C

Mode	Rate	Channel	Software Setting Value		
Mode	Rale	Channel	ANT 1	ANT 2	
		100	10	10	
11a 20	6M	116	10	10	
		140	10	10	
		100	11	11	
11n HT20	MCS0	116	11	11	
		140	11	11	
	MCS0	102	10	10	
11n HT40		118	10	10	
		134	10	10	
		100	11	11	
11ac VHT20	MCS0	116	11	11	
		140	11	11	
11ac VHT40	MCS0	102	12	12	
	IVICSU	118	12	12	
11ac VHT80	MCS0	106	13	13	
	10030	122	13	13	

UNII-3

Mada	Dete		Software Se	etting Value
Mode	Rate	Channel	ANT 1	ANT 2
		149	10	10
11a 20	6M	157	10	10
		165	10	10
		149	11	11
11n HT20	MCS0	157	11	11
		165	11	11
11n HT40	MCS0	151	10	10
11111140	NICSU	159	10	10
		149	11	11
11ac VHT20	MCS0	157	11	11
		165	11	11
11ac VHT40	MCS0	151	12	12
		159	12	12
11ac VHT80	MCS0	155	13	13



5.6. THE WORSE CASE CONFIGURATIONS

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

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

Test channels referring to section 5.3.

Maximum power setting referring to section 5.5.

Worst case Data Rates declared by the customer:

802.11a 20 mode: 6 Mbps 802.11n HT20 mode: MCS0 802.11n HT40 mode: MCS0 802.11ac VHT20 mode: MCS0 802.11ac VHT40 mode: MCS0 802.11ac VHT80 mode: MCS0

802.11ac VHT20 and VHT40 mode are different from 802.11n HT20 and HT40 only in control messages, so for these 4 modes, only 802.11ac VHT20 and 802.11ac VHT40 worst case power modes radiated emission test data are recorded in the report.

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

The EUT has 2 separate antennas which correspond to 2 separate antenna ports. Core 1 and Core 2 correspond to antenna 0 and antenna respectively.

Antenna 0 and Antenna 1 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.

The EUT support Cyclic Shift Diversity (CDD), Space Time Coding (STBC), Spartial Division Multiplexing (SDM) modes. They use the same conducted power per chain in any given mode, CDD mode have the maximum power setting, so we only chose the worst case mode CDD for final testing.



5.7. DESCRIPTION OF TEST SETUP

SUPPORT EQUIPMENT

I	ltem	Equipment	Brand Name	Model Name	Remarks
	1	PC	Lenovo	E480	/
	2	Router	TP-LINK	TL-WDR5620	/

I/O CABLES

Cable No	Port	Connector Type	Cable Type	Cable Length(m)	Remarks
1	DC	/	Unshielded	1.0	/
2	RJ45	/	Unshielded	1.0	/
3	USB	Туре С	Unshielded	1.0	/

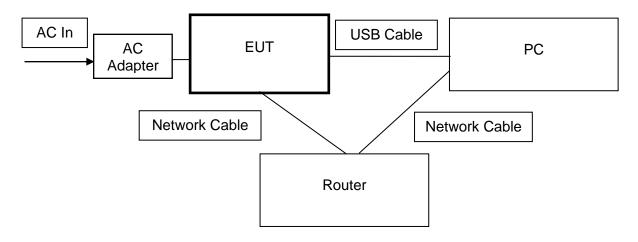
ACCESSORIES

Item	Accessory	Brand Name	Model Name	Description
1	AC Adapter	Yealink	YLPS121250C1-US	Input: AC 100-240 V, 50/60Hz, 0.5 A Output: DC 12 V, 1.5 A

TEST SETUP

The EUT can work in engineering mode with a software.

SETUP DIAGRAM FOR TESTS





6. MEASURING INSTRUMENT AND SOFTWARE USED

	Conducted Emissions							
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due Date			
EMI Test Receiver	R&S	ESR3	101961	Nov. 12, 2020	Nov. 11, 2021			
Two-Line V- Network	R&S	ENV216	101983	Nov. 12, 2020	Nov. 11, 2021			
	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. 2, 2021	Aug. 1, 2023		
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	Jul. 20, 2021	Jul. 20, 2023		
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	00008	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		

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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	Мо	odel No.	Serial No.	Last	Cal.	Due. Date
Wideband Radio Communication Tester	R&S	C	MW500	155523	Nov.2	0,2020	Nov.19,2021
PXA Signal Analyzer	Keysight	Ν	9030A	MY55410512	Nov.2	0,2020	Nov.19,2021
MXG Vector Signal Generator	Keysight	N	5182B	MY56200284	Nov.2	0,2020	Nov.19,2021
MXG Vector Signal Generator	Keysight	Ν	5172B	MY56200301	Nov.20	0,2020	Nov.19,2021
DC power supply	Keysight	E	3642A	MY55159130	Nov.24	4,2020	Nov.23,2021
Temperature & Humidity Chamber	SANMOOD	MOOD SG-80-CC-2		2088	Nov.2	0,2020	Nov.19,2021
	Software						
Description	Manufactu	Manufacturer		Name		,	Version
Tonsend SRD Test Syste	m Tonsend	ł	JS1120	120-3 RF Test System		2.6	6.77.0518

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



7. ANTENNA PORT TEST RESULTS

7.1. ON TIME AND DUTY CYCLE

LIMITS

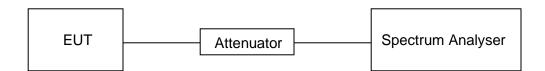
None; for reporting purposes only.

PROCEDURE

Refer to 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	26.0 °C	Relative Humidity	55.3 %
Atmosphere Pressure	101 kPa	Test Voltage	AC 120 V/60 Hz

RESULTS

Please refer to appendix D.



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

<u>LIMITS</u>

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

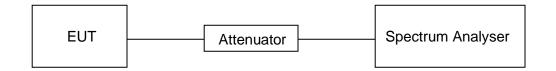
26 dB BW: 20.00 MHz FL: 5710.16 MHz FH: 5730.16 MHz Turning Frequency: 5725 MHz 26 dB Bandwidth of UNII-2C Band Portion = 5725-5710.16=14.84 MHz

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	26.0 °C	Relative Humidity	55.3 %
Atmosphere Pressure	101 kPa	Test Voltage	AC 120 V/60 Hz

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	
10 log B, where B is the 26	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 $\ge 2 \times \text{span} / \text{RBW}$. (This ensures that bin-to-bin spacing is $\le \text{RBW}/2$, 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 \ge 98 %, 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 %).

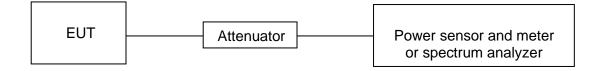
Method PM-G (Measurement using a gated RF average power meter):

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	26.0 °C	Relative Humidity	55.3 %
Atmosphere Pressure	101 kPa	Test Voltage	AC 120 V/60 Hz

RESULTS

Please refer to Appendix B.



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	
	11 dBm/MHz	5250 ~ 5350 5470 ~ 5725	
	30 dBm/500kHz	5725 ~ 5850	

ISED RSS-247 ISSUE 2			
Test Item	Limit	Frequency Range (MHz)	
Power Spectral Density	The e.i.r.p. spectral density shall not exceed 10 dBm in any 1.0 MHz band.	5150 ~ 5250	
	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:

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

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	26.0 °C	Relative Humidity	55.3 %
Atmosphere Pressure	101 kPa	Test Voltage	AC 120 V/60 Hz

RESULTS

Please refer to Appendix C.



8. RADIATED TEST RESULTS

<u>LIMITS</u>

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 Strength Limit	Field Strength Limit		
(MHz)	(uV/m) at 3 m	(dBuV/m) at 3 m		
		Quasi-Peak		
30 - 88	100	40		
88 - 216	150	43.5		
216 - 960	200	46		
Above 960	500	54		
Above 1000	500	Peak	Average	
	300	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

Hz	MHz	GHz	
090 - 0.110	149.9 - 150.05	9.0 - 9.2	
95 - 0.505	156.52475 - 156.52525	9.3 - 9.5	
735 - 2.1905	156.7 - 156.9	10.6 - 12.7	
120 - 3.028	162.0125 - 167.17	13.25 - 13.4	
25 - 4.128	167.72 - 173.2	14.47 - 14.5	
7725 - 4.17775	240 - 285	15.35 - 16.2	
20725 - 4.20775	322 - 335.4	17.7 - 21.4	
877 - 5.683	399.9 - 410	22.01 - 23.12	
215 - 6.218	608 - 614	23.6 - 24.0	
6775 - 6.26825	960 - 1427	31.2 - 31.8	
31175 - 6.31225	1435 - 1626.5	36.43 - 36.5	
291 - 8.294	1845.5 - 1848.5	Above 38.6	
62 - 8.366	1660 - 1710		
7625 - 8.38675	1718.8 - 1722.2		
1425 - 8.41475	2200 - 2300		
29 - 12.293	2310 - 2390		
.51975 - 12.52025	2483.5 - 2500		
57675 - 12.57725	2855 - 2900		
.36 - 13.41	3280 - 3287		
42 - 16.423	3332 - 3339		
69475 - 16.69525	3345.8 - 3358		
80425 - 16.80475	3500 - 4400		
5 - 25.67	4500 - 5150		
5 - 38.25	5350 - 5480		
- 74.6	7250 - 7750		
8 - 75.2	8025 - 8500		

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

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

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

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

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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)		(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				
5725~5650 WHZ	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.

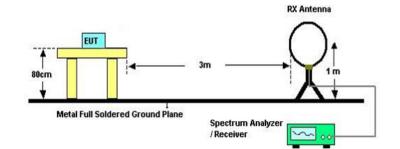
*3 below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above.

*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 & 11.12.

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 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 and average detector and reported.

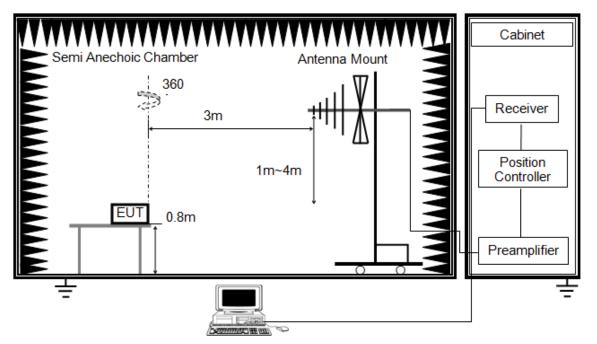
7. Although these tests were performed other than open field site, adequate comparison measurements were confirmed against 30 m open field site. Therefore sufficient tests were made to demonstrate that the alternative site produces results that correlate with the ones of tests made in an open field site based on KDB 414788.

8. The limits in CFR 47, Part 15, Subpart C, paragraph 15.209 (a), are identical to those in RSS-GEN Section 8.9, Table 6, since the measurements are performed in terms of magnetic field strength and converted to electric field strength levels (as reported in the table) using the free space impedance of 377 Ω . For example, the measurement frequency X kHz resulted in a level of Y dBuV/m, which is equivalent to Y-51.5 = Z dBuA/m, which has the same margin, W dB, to the corresponding RSS-GEN Table 6 limit as it has to be 15.209(a) limit.

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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.

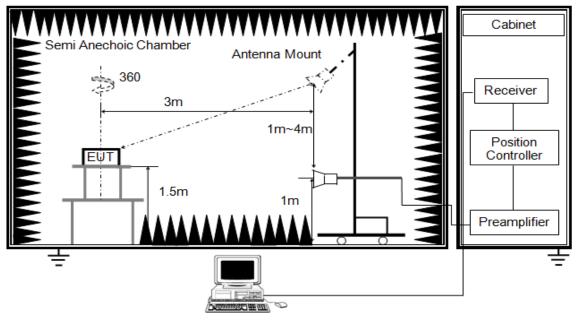
3. The EUT was placed on a turntable with 80 cm above ground.

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	IHz			
IVRW	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.



Note 1: 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.

Note 2: Co-Location had been evaluated with the 5 GHz WLAN / 2.4 GHz WLAN and BT / BLE transmitter and has no additional or worse emissions found. Only the worst data was recorded in the test report.

Note 3: For Co-Location about NFC and other transmitting, pre-scan had been done and no additional or worse emissions found, do not report.

TEST ENVIRONMENT

Temperature	26.1 °C	Relative Humidity	45 %
Atmosphere Pressure	101 kPa	Test Voltage	AC 120 V/60 Hz

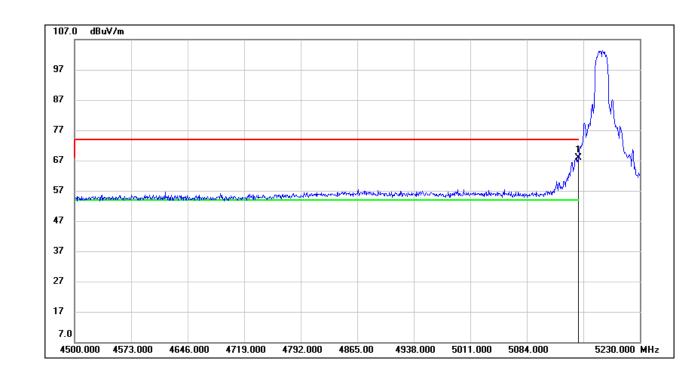
RESULTS

8.1. RESTRICTED BANDEDGE

8.1.1. 802.11a 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	26.79	41.19	67.98	74.00	-6.02	peak

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

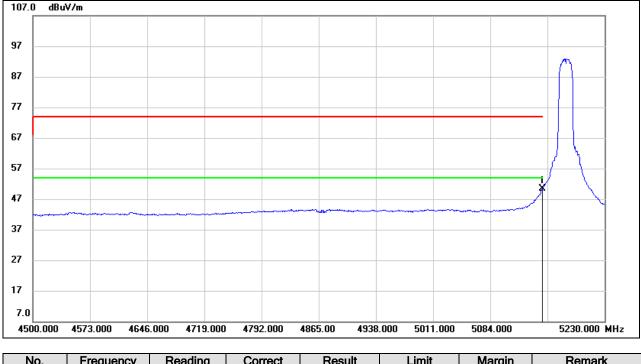
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Peak: Peak detector.

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	5150.000	9.08	41.19	50.27	54.00	-3.73	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.

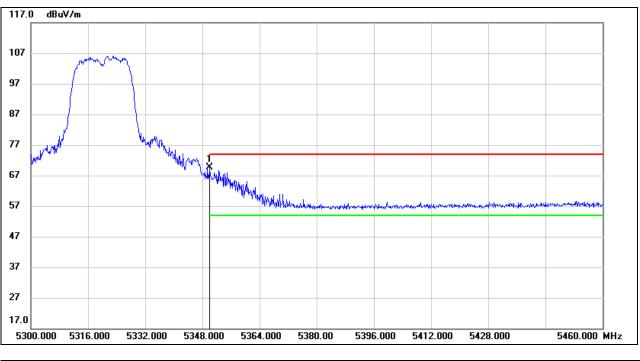
4. For the transmitting duration, please refer to clause 7.1.

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

RESTRICTED BANDEDGE (HIGH CHANNEL, VERTICAL)



<u>PEAK</u>

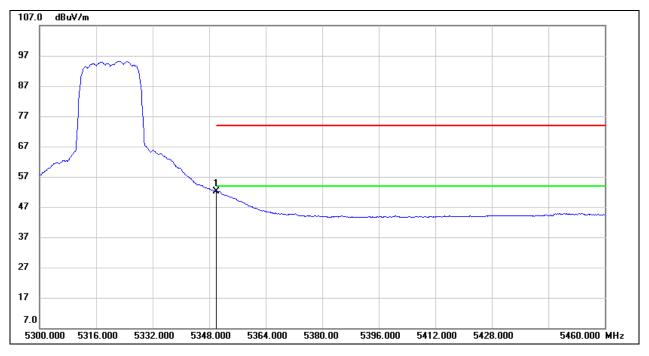
Γ	No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
		(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
	1	5350.000	28.45	41.20	69.65	74.00	-4.35	peak

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

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

3. Peak: Peak detector.





Γ	No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
ſ		(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
	1	5350.000	10.92	41.20	52.12	54.00	-1.88	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.

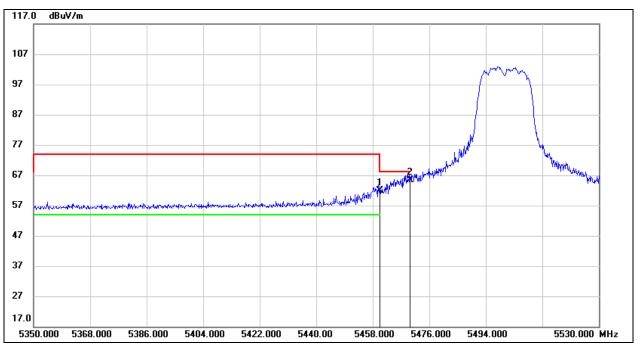
3. AVG: VBW=1/Ton, where: Ton is the transmitting duration.

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



UNII-2C BAND

RESTRICTED BANDEDGE (LOW CHANNEL, VERTICAL)



PEAK

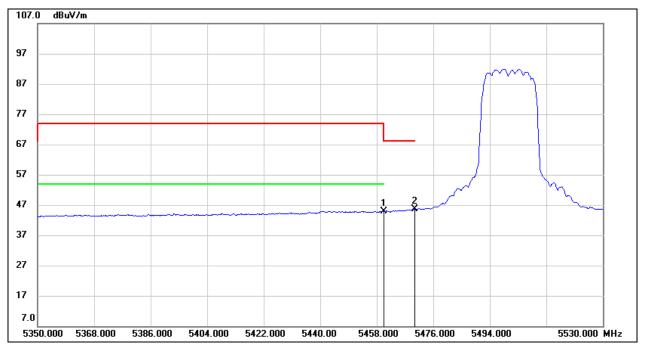
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5460.000	20.15	41.82	61.97	68.20	-6.23	peak
2	5470.000	23.42	41.87	65.29	68.20	-2.91	peak

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

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

3. Peak: Peak detector.





No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5460.000	2.94	41.82	44.76	54.00	-9.24	AVG
2	5470.000	3.67	41.87	45.54	1	/	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.

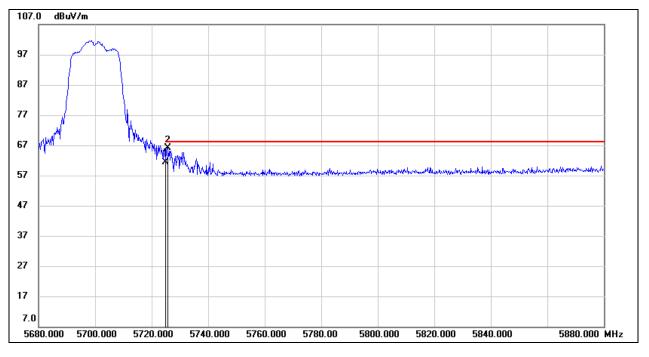
5. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

6. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) 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	5725.000	19.69	41.67	61.36	68.20	-6.84	peak
2	5725.600	24.44	41.67	66.11	68.20	-2.09	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.



UNII-3 BAND

RESTRICTED BANDEDGE (LOW CHANNEL, VERTICAL)

dBuV/m 117.0 107 97 87 77 M. Murthur maler run 67 57 47 37 27 17.0 5600.000 5616.000 5632.000 5648.000 5664.000 5680.00 5696.000 5712.000 5728.000 5760.000 MHz

PEAK

No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5643.840	17.99	41.65	59.64	68.20	-8.56	peak
2	5725.000	32.26	41.67	73.93	122.20	-48.27	peak
3	5746.400	65.11	41.77	106.88	/	/	Fundamental

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

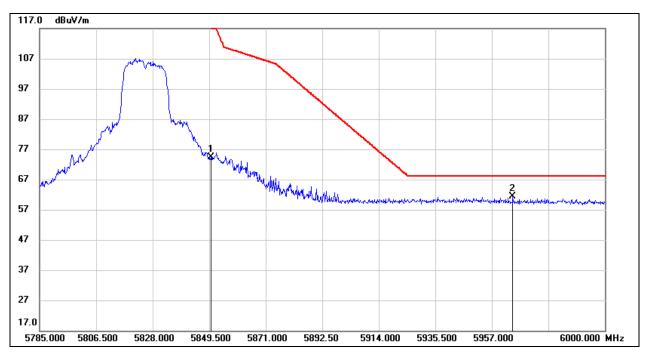
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Peak: Peak detector.



RESTRICTED BANDEDGE (HIGH CHANNEL, VERTICAL)





No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5850.000	31.76	42.52	74.28	122.20	-47.92	peak
2	5964.955	18.73	42.73	61.46	68.20	-6.74	peak

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

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

3. Peak: Peak detector.

4. 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.

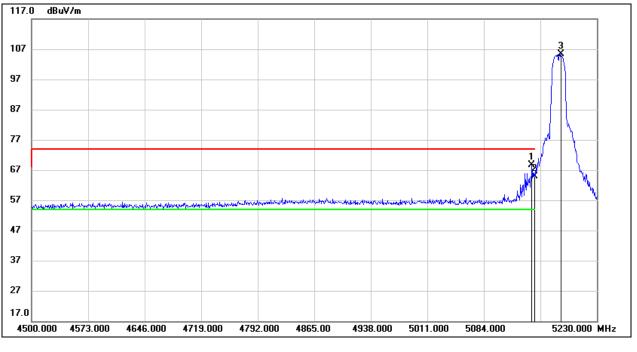


8.1.2. 802.11ac VHT20 MIMO MODE

UNII-1 BAND

RESTRICTED BANDEDGE (LOW CHANNEL, VERTICAL)

<u>PEAK</u>



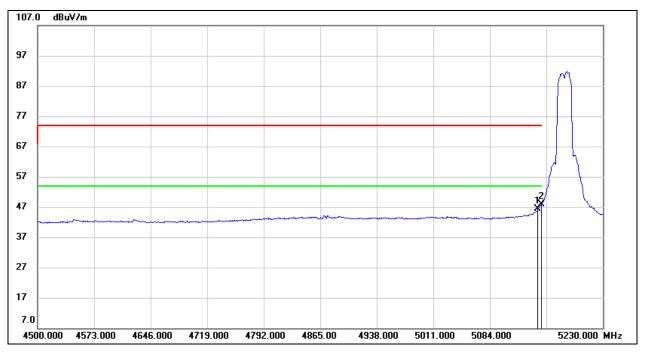
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5146.050	27.45	41.16	68.61	74.00	-5.39	peak
2	5150.000	23.59	41.19	64.78	74.00	-9.22	peak
3	5183.280	64.03	41.47	105.50	/	/	Fundamental

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

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

3. Peak: Peak detector.





No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5146.050	5.17	41.16	46.33	54.00	-7.67	AVG
2	5150.000	6.78	41.19	47.97	54.00	-6.03	AVG

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

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

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

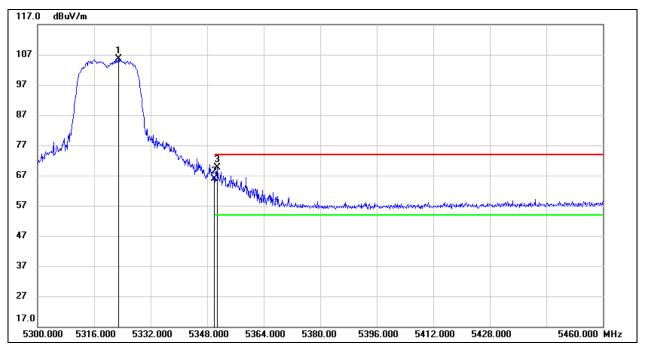
4. For the transmitting duration, please refer to clause 7.1.



UNII-2A BAND

RESTRICTED BANDEDGE (HIGH CHANNEL, VERTICAL)

<u>PEAK</u>



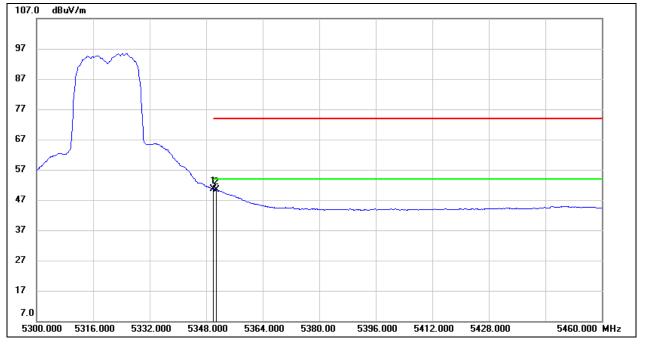
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5322.880	64.60	41.06	105.66	/	/	Fundamental
2	5350.000	24.80	41.20	66.00	74.00	-8.00	peak
3	5350.880	28.48	41.21	69.69	74.00	-4.31	peak

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.





No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5350.000	9.40	41.20	50.60	54.00	-3.40	AVG
2	5350.880	9.10	41.21	50.31	54.00	-3.69	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.

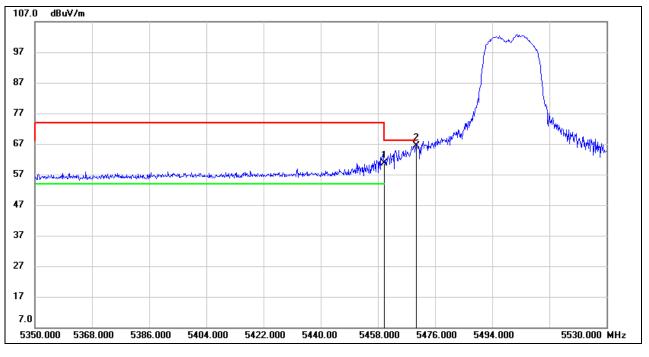
4. For the transmitting duration, please refer to clause 7.1.



UNII-2C BAND

RESTRICTED BANDEDGE (LOW CHANNEL, VERTICAL)

<u>PEAK</u>



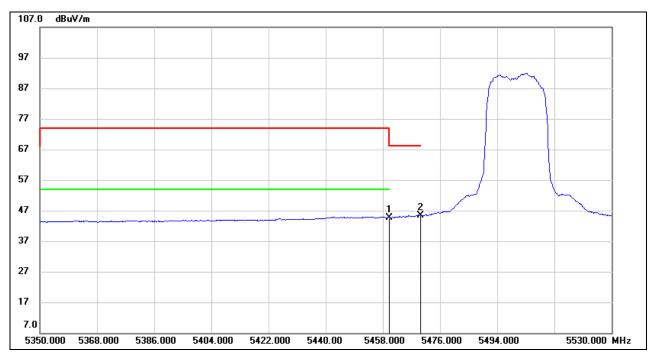
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5460.000	18.87	41.82	60.69	68.20	-7.51	peak
2	5470.000	24.43	41.87	66.30	68.20	-1.90	peak

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

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

3. Peak: Peak detector.





No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5460.000	2.90	41.82	44.72	54.00	-9.28	AVG
2	5470.000	3.55	41.87	45.42	/	/	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.

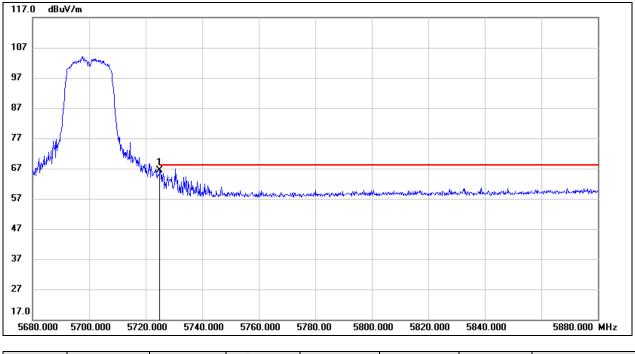
5. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

6. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) 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	5725.000	24.80	41.67	66.47	68.20	-1.73	peak

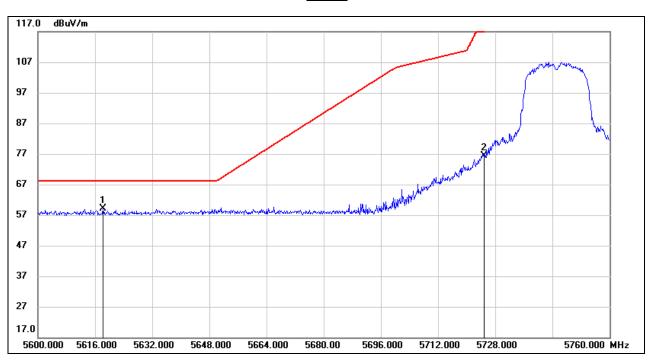
Note: 1. Measurement = Reading Level + Correct Factor.

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

3. Peak: Peak detector.



UNII-3 BAND



RESTRICTED BANDEDGE (LOW CHANNEL, VERTICAL)

No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5618.240	17.55	41.70	59.25	68.20	-8.95	peak
2	5725.000	34.61	41.67	76.28	122.20	-45.92	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.

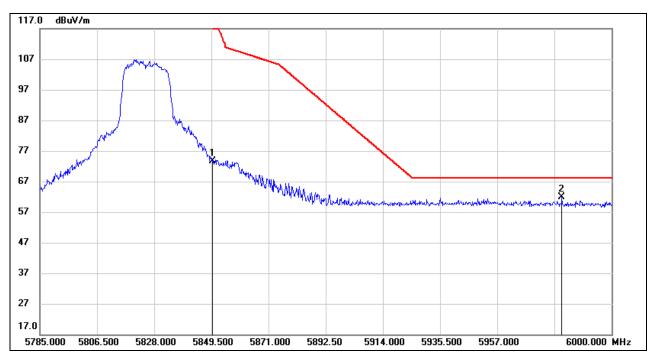
4. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

PEAK



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	31.07	42.52	73.59	122.20	-48.61	peak
2	5981.295	19.20	42.65	61.85	68.20	-6.35	peak

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

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

3. Peak: Peak detector.

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.

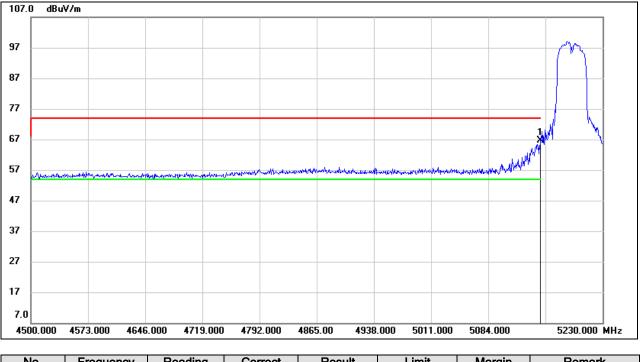


8.1.3. 802.11ac HT40 MIMO MODE

UNII-1 BAND

RESTRICTED BANDEDGE (LOW CHANNEL, VERTICAL)

<u>PEAK</u>



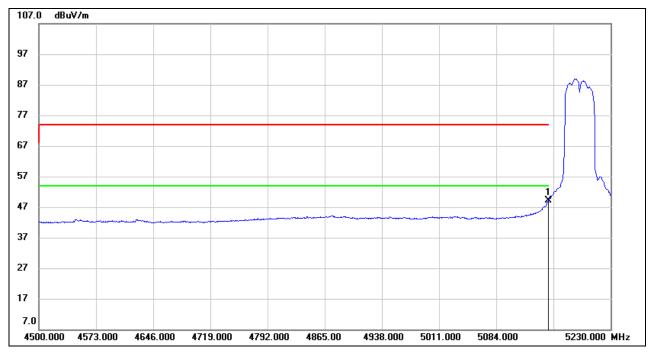
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5150.000	25.34	41.19	66.53	74.00	-7.47	peak

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

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

3. Peak: Peak detector.





1	No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
		(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
	1	5150.000	7.86	41.19	49.05	54.00	-4.95	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.

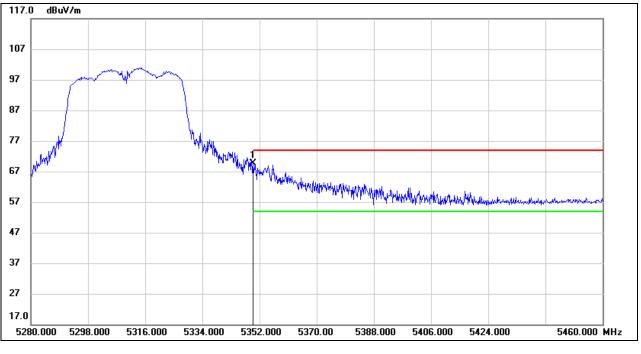
4. For the transmitting duration, please refer to clause 7.1.



UNII-2A BAND

RESTRICTED BANDEDGE (HIGH CHANNEL, VERTICAL)

<u>PEAK</u>



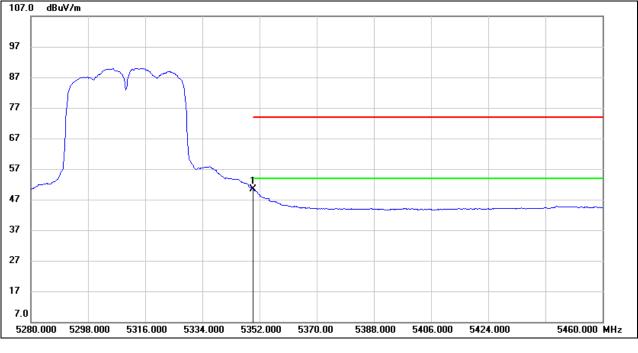
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5350.000	28.50	41.20	69.70	74.00	-4.30	peak

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

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

3. Peak: Peak detector.





No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5350.000	9.19	41.20	50.39	54.00	-3.61	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.

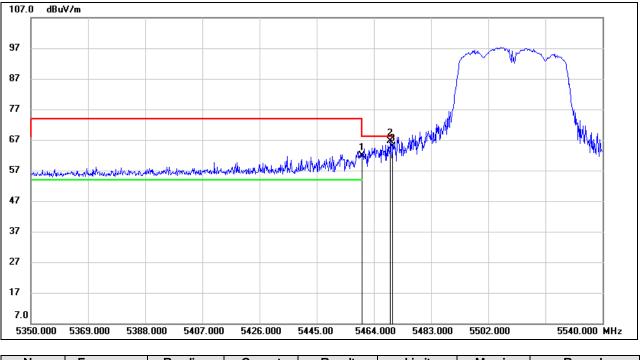
4. For the transmitting duration, please refer to clause 7.1.



UNII-2C BAND

RESTRICTED BANDEDGE (LOW CHANNEL, VERTICAL)

<u>PEAK</u>



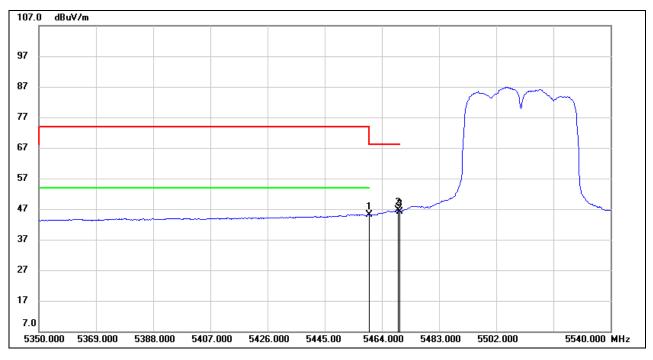
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5460.000	19.96	41.82	61.78	68.20	-6.42	peak
2	5469.510	24.88	41.87	66.75	68.20	-1.45	peak
3	5470.000	22.94	41.87	64.81	68.20	-3.39	peak

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

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

3. Peak: Peak detector.





No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5460.000	3.32	41.82	45.14	54.00	-8.86	AVG
2	5469.510	4.71	41.87	46.58	/	/	AVG
3	5470.000	4.37	41.87	46.24	/	/	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.

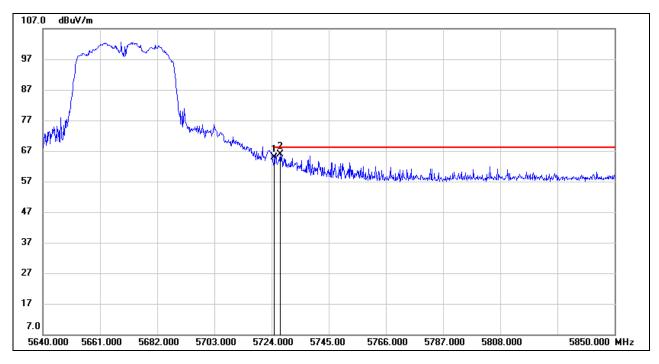
5. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

6. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) 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	5725.000	23.19	41.67	64.86	68.20	-3.34	peak
2	5727.150	24.16	41.67	65.83	68.20	-2.37	peak

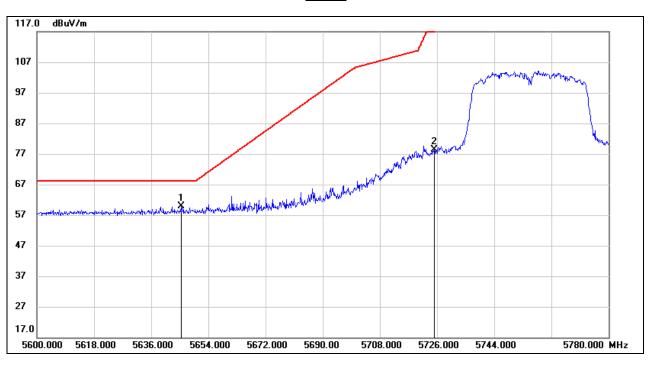
Note: 1. Measurement = Reading Level + Correct Factor.

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

3. Peak: Peak detector.



UNII-3 BAND



RESTRICTED BANDEDGE (LOW CHANNEL, VERTICAL)

No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5645.360	18.32	41.64	59.96	68.20	-8.24	peak
2	5725.000	36.75	41.67	78.42	122.20	-43.78	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.

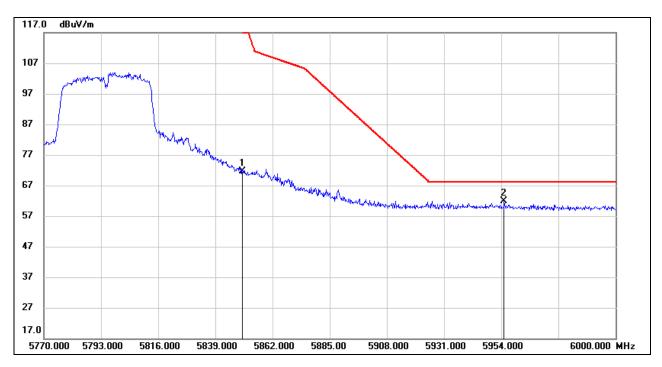
4. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

PEAK



RESTRICTED BANDEDGE (HIGH CHANNEL, VERTICAL)





No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5850.000	29.23	42.52	71.75	122.20	-50.45	peak
2	5955.150	19.07	42.77	61.84	68.20	-6.36	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.

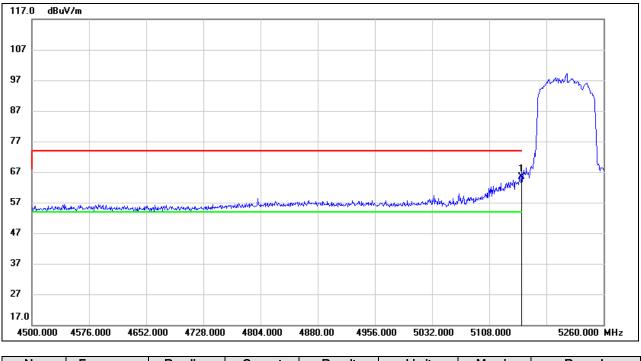


8.1.4. 802.11ac VHT80 MIMO MODE

UNII-1 BAND

RESTRICTED BANDEDGE (LOW CHANNEL, VERTICAL)

<u>PEAK</u>



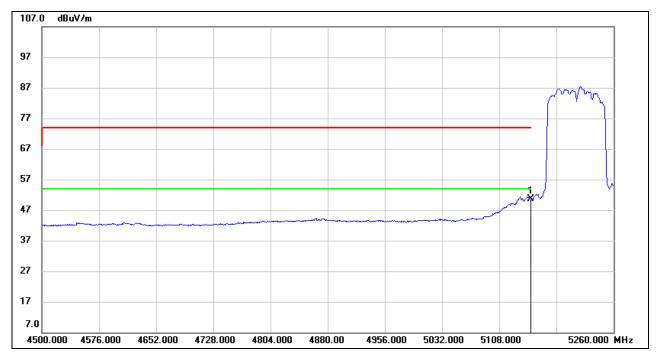
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5150.000	24.22	41.19	65.41	74.00	-8.59	peak

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

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

3. Peak: Peak detector.





No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5150.000	9.41	41.19	50.60	54.00	-3.40	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.

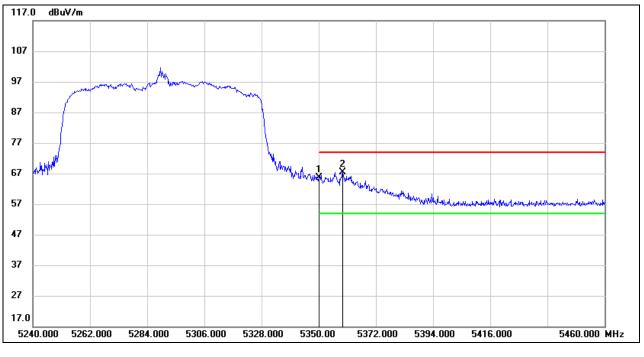
4. For the transmitting duration, please refer to clause 7.1.



UNII-2A BAND

RESTRICTED BANDEDGE (LOW CHANNEL, VERTICAL)

<u>PEAK</u>



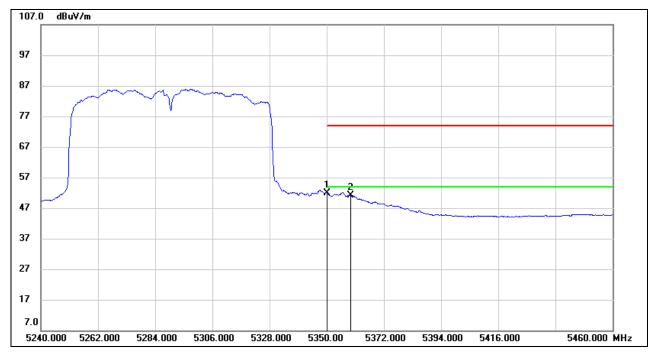
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5350.000	24.44	41.20	65.64	74.00	-8.36	peak
2	5359.240	26.25	41.25	67.50	74.00	-6.50	peak

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.





No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5350.000	10.78	41.20	51.98	54.00	-2.02	AVG
2	5359.240	9.78	41.25	51.03	54.00	-2.97	AVG

Note: 1. Measurement = Reading Level + Correct Factor

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

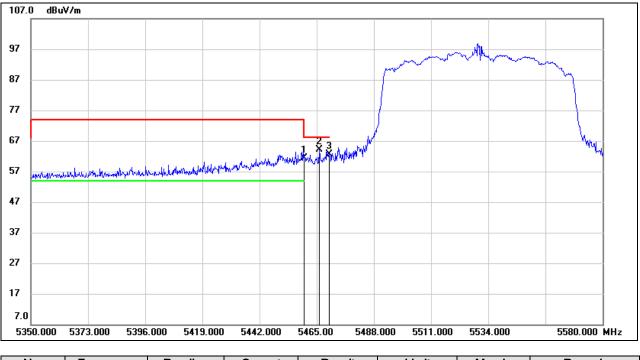
3. For duty cycle, please refer to clause 7.1.



UNII-2C BAND

RESTRICTED BANDEDGE (LOW CHANNEL, VERTICAL)

<u>PEAK</u>



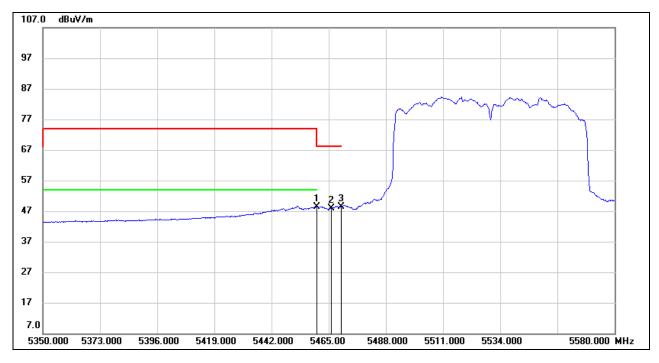
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5460.000	19.59	41.82	61.41	68.20	-6.79	peak
2	5466.150	22.20	41.86	64.06	68.20	-4.14	peak
3	5470.000	20.71	41.87	62.58	68.20	-5.62	peak

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

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

3. Peak: Peak detector.





No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5460.000	6.66	41.82	48.48	54.00	-5.52	AVG
2	5466.150	6.07	41.86	47.93	/	/	AVG
3	5470.000	6.62	41.87	48.49	/	1	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.

6. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

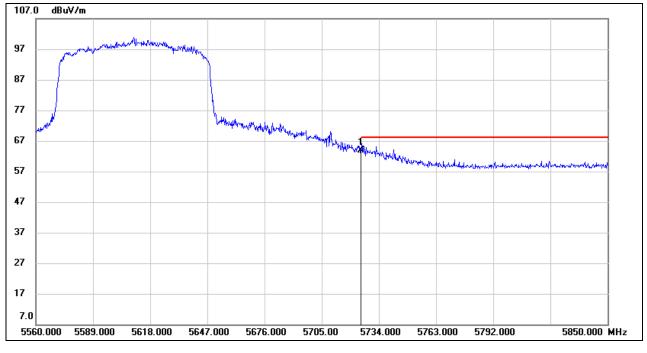


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RESTRICTED BANDEDGE (HIGH CHANNEL, VERTICAL)

<u>PEAK</u>



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5725.000	22.31	41.67	63.98	68.20	-4.22	peak

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

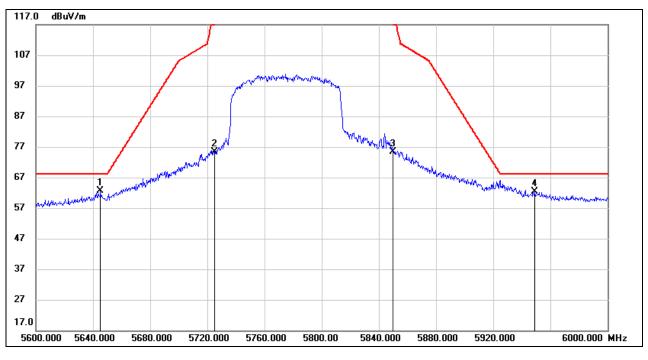
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Peak: Peak detector.



UNII-3 BAND





No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5645.200	20.97	41.64	62.61	68.20	-5.59	peak
2	5725.000	33.81	41.67	75.48	122.20	-46.72	peak
3	5850.000	32.74	42.52	75.26	122.20	-46.94	peak
4	5949.200	19.51	42.80	62.31	68.20	-5.89	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.

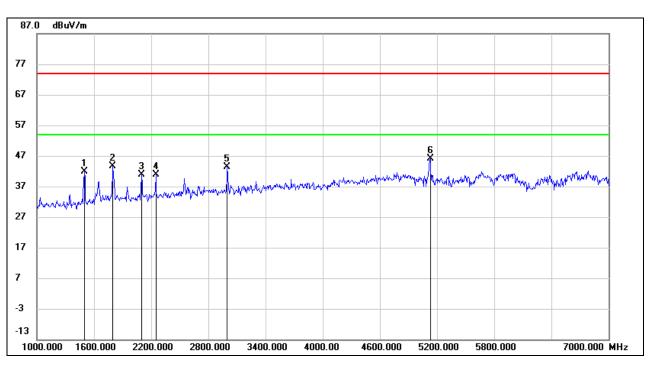
Note: All the polarities (Vertical & Horizontal) had been tested, only the worst data was recorded in the report.



8.2. SPURIOUS EMISSIONS (1 GHz ~ 7 GHz)

8.2.1. 802.11ac VHT20 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	1498.000	54.16	-12.23	41.93	74.00	-32.07	peak
2	1798.000	53.66	-10.07	43.59	74.00	-30.41	peak
3	2098.000	50.41	-9.63	40.78	74.00	-33.22	peak
4	2248.000	49.70	-8.89	40.81	74.00	-33.19	peak
5	2998.000	48.94	-5.60	43.34	74.00	-30.66	peak
6	5128.000	44.36	1.67	46.03	74.00	-27.97	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.

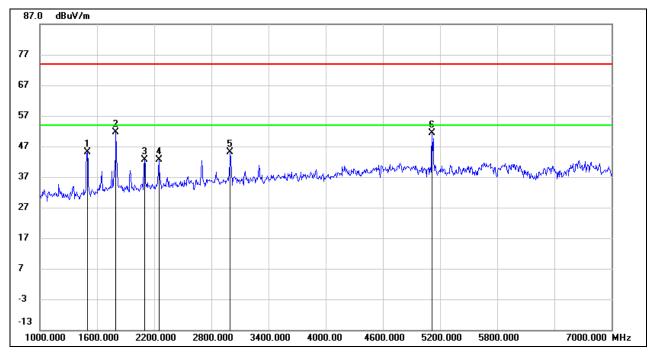
4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band reject filter losses.

5. Proper operation of the transmitter prior to adding the filter to the measurement chain.

6. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.



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	1498.000	57.32	-12.23	45.09	74.00	-28.91	peak
2	1798.000	61.67	-10.07	51.60	74.00	-22.40	peak
3	2098.000	52.23	-9.63	42.60	74.00	-31.40	peak
4	2248.000	51.43	-8.89	42.54	74.00	-31.46	peak
5	2998.000	50.68	-5.60	45.08	74.00	-28.92	peak
6	5116.000	49.69	1.60	51.29	74.00	-22.71	peak

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

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

3. Peak: Peak detector.

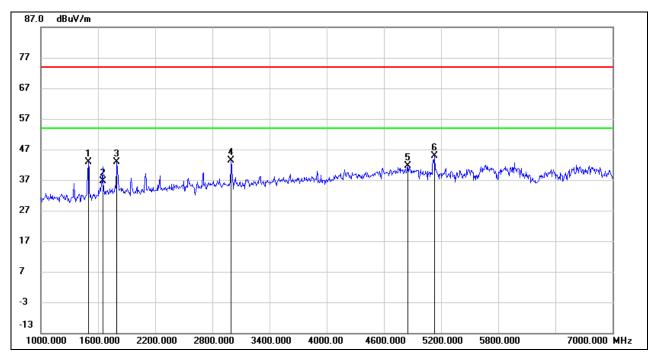
4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band reject filter losses.

5. Proper operation of the transmitter prior to adding the filter to the measurement chain.

6. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.



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	1498.000	55.20	-12.23	42.97	74.00	-31.03	peak
2	1654.000	47.86	-11.15	36.71	74.00	-37.29	peak
3	1798.000	52.90	-10.07	42.83	74.00	-31.17	peak
4	2998.000	48.97	-5.60	43.37	74.00	-30.63	peak
5	4852.000	40.90	0.67	41.57	74.00	-32.43	peak
6	5134.000	43.14	1.70	44.84	74.00	-29.16	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.

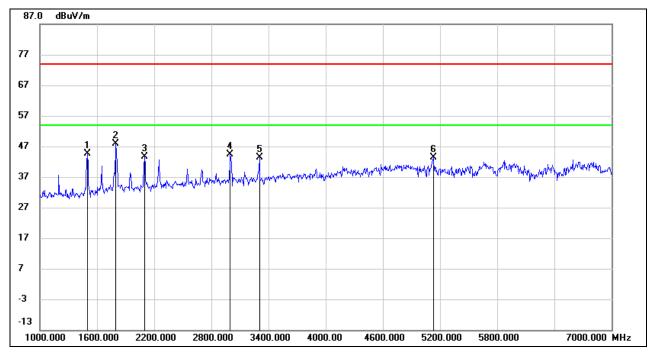
3. Peak: Peak detector.

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.



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	1498.000	56.89	-12.23	44.66	74.00	-29.34	peak
2	1798.000	57.94	-10.07	47.87	74.00	-26.13	peak
3	2098.000	53.26	-9.63	43.63	74.00	-30.37	peak
4	2998.000	49.95	-5.60	44.35	74.00	-29.65	peak
5	3304.000	48.59	-5.18	43.41	74.00	-30.59	peak
6	5128.000	41.63	1.67	43.30	74.00	-30.70	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.

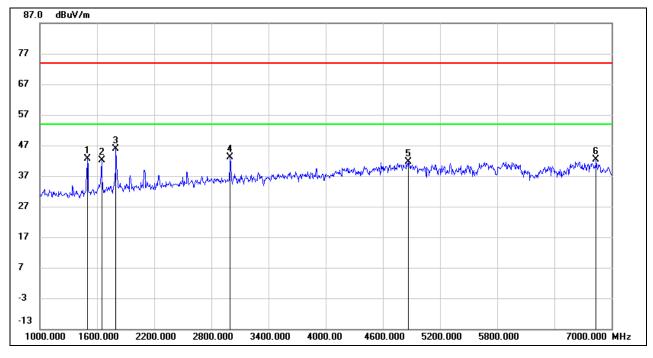
3. Peak: Peak detector.

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.



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	1498.000	54.87	-12.23	42.64	74.00	-31.36	peak
2	1648.000	53.34	-11.20	42.14	74.00	-31.86	peak
3	1798.000	55.92	-10.07	45.85	74.00	-28.15	peak
4	2998.000	48.72	-5.60	43.12	74.00	-30.88	peak
5	4864.000	40.84	0.69	41.53	74.00	-32.47	peak
6	6838.000	36.73	5.69	42.42	74.00	-31.58	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.

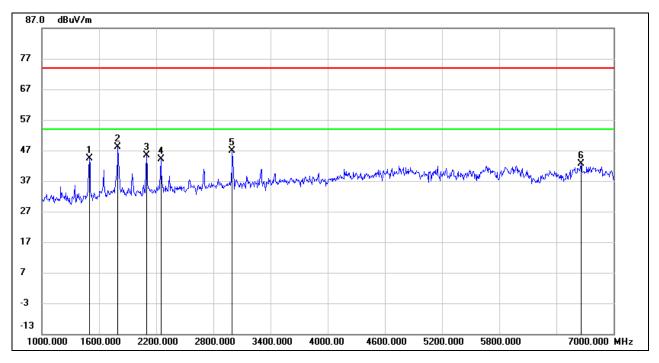
3. Peak: Peak detector.

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.



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	1498.000	56.65	-12.23	44.42	74.00	-29.58	peak
2	1798.000	58.09	-10.07	48.02	74.00	-25.98	peak
3	2098.000	55.01	-9.63	45.38	74.00	-28.62	peak
4	2248.000	52.92	-8.89	44.03	74.00	-29.97	peak
5	2998.000	52.50	-5.60	46.90	74.00	-27.10	peak
6	6658.000	37.01	5.51	42.52	74.00	-31.48	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.

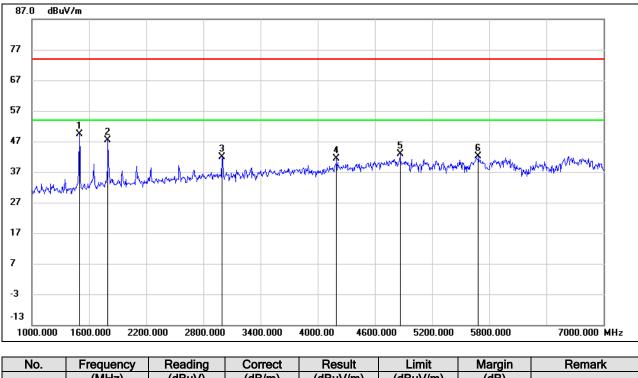
4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band reject filter losses.

5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



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	1498.000	61.66	-12.23	49.43	74.00	-24.57	peak
2	1798.000	57.47	-10.07	47.40	74.00	-26.60	peak
3	2998.000	47.49	-5.60	41.89	74.00	-32.11	peak
4	4198.000	43.15	-1.68	41.47	74.00	-32.53	peak
5	4864.000	42.30	0.69	42.99	74.00	-31.01	peak
6	5686.000	39.55	2.47	42.02	74.00	-31.98	peak

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

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

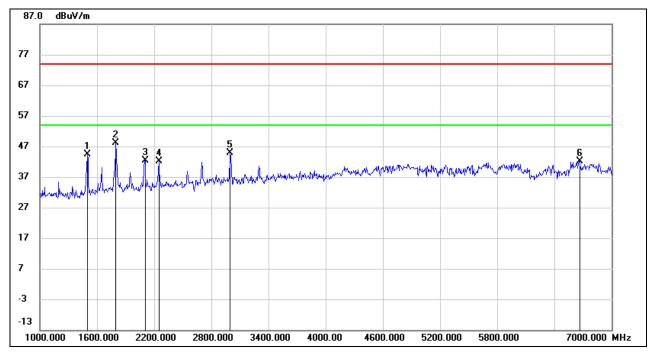
3. Peak: Peak detector.

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

5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, VERTICAL)



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1498.000	56.69	-12.23	44.46	74.00	-29.54	peak
2	1798.000	58.22	-10.07	48.15	74.00	-25.85	peak
3	2104.000	51.92	-9.59	42.33	74.00	-31.67	peak
4	2248.000	51.05	-8.89	42.16	74.00	-31.84	peak
5	2998.000	50.58	-5.60	44.98	74.00	-29.02	peak
6	6664.000	36.56	5.53	42.09	74.00	-31.91	peak

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

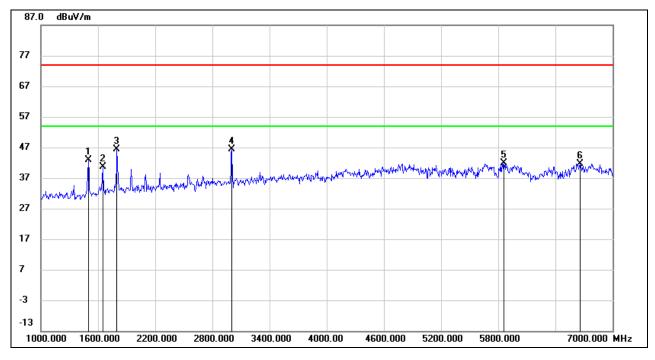
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

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.

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	1498.000	55.03	-12.23	42.80	74.00	-31.20	peak
2	1648.000	51.86	-11.20	40.66	74.00	-33.34	peak
3	1798.000	56.37	-10.07	46.30	74.00	-27.70	peak
4	3004.000	51.99	-5.59	46.40	74.00	-27.60	peak
5	5860.000	39.24	2.75	41.99	74.00	-32.01	peak
6	6658.000	36.08	5.51	41.59	74.00	-32.41	peak

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

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

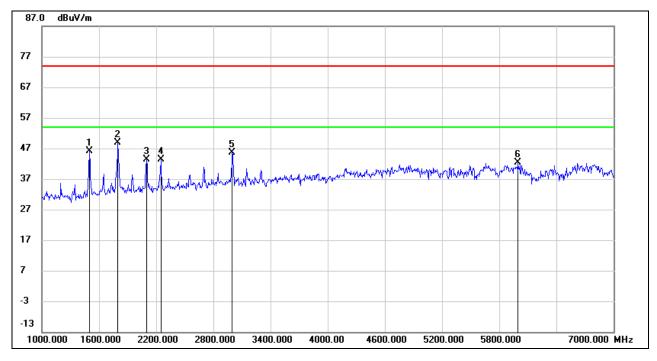
3. Peak: Peak detector.

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

5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, VERTICAL)



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1498.000	58.38	-12.23	46.15	74.00	-27.85	peak
2	1798.000	59.07	-10.07	49.00	74.00	-25.00	peak
3	2098.000	52.94	-9.63	43.31	74.00	-30.69	peak
4	2248.000	52.22	-8.89	43.33	74.00	-30.67	peak
5	2998.000	51.28	-5.60	45.68	74.00	-28.32	peak
6	5998.000	39.17	3.30	42.47	74.00	-31.53	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.

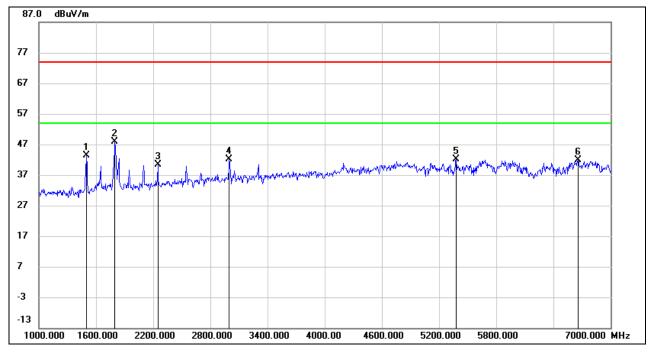
3. Peak: Peak detector.

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.



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	1498.000	55.72	-12.23	43.49	74.00	-30.51	peak
2	1798.000	57.87	-10.07	47.80	74.00	-26.20	peak
3	2248.000	49.24	-8.89	40.35	74.00	-33.65	peak
4	2998.000	47.81	-5.60	42.21	74.00	-31.79	peak
5	5380.000	40.26	1.90	42.16	74.00	-31.84	peak
6	6658.000	36.46	5.51	41.97	74.00	-32.03	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.

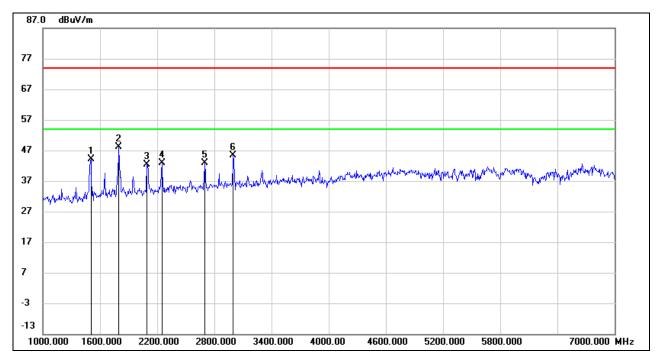
3. Peak: Peak detector.

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.



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	1504.000	56.37	-12.20	44.17	74.00	-29.83	peak
2	1798.000	58.23	-10.07	48.16	74.00	-25.84	peak
3	2092.000	51.98	-9.66	42.32	74.00	-31.68	peak
4	2248.000	51.88	-8.89	42.99	74.00	-31.01	peak
5	2698.000	50.17	-7.22	42.95	74.00	-31.05	peak
6	2998.000	51.07	-5.60	45.47	74.00	-28.53	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.

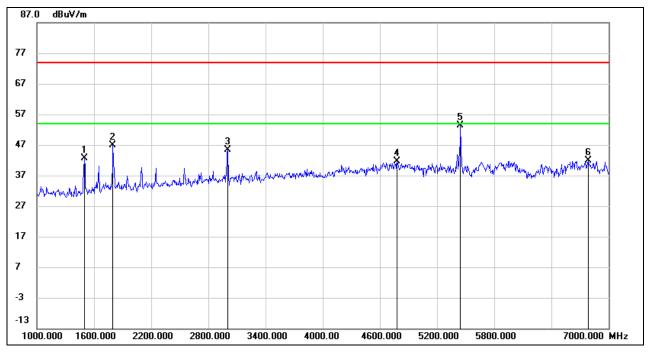
4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band reject filter losses.

5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



UNII-2C BAND





No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1498.000	54.98	-12.23	42.75	74.00	-31.25	peak
2	1798.000	57.02	-10.07	46.95	74.00	-27.05	peak
3	3004.000	50.86	-5.59	45.27	74.00	-28.73	peak
4	4780.000	41.10	0.48	41.58	74.00	-32.42	peak
5	5446.000	51.35	2.01	53.36	74.00	-20.64	peak
6	6784.000	36.38	5.56	41.94	74.00	-32.06	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.

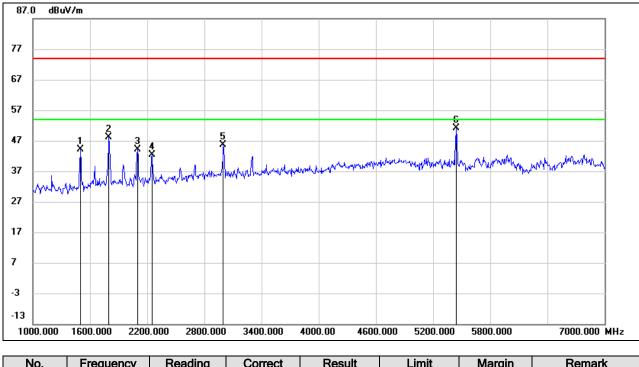
3. Peak: Peak detector.

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.



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	1498.000	56.41	-12.23	44.18	74.00	-29.82	peak
2	1798.000	58.16	-10.07	48.09	74.00	-25.91	peak
3	2098.000	53.85	-9.63	44.22	74.00	-29.78	peak
4	2248.000	51.32	-8.89	42.43	74.00	-31.57	peak
5	2998.000	51.15	-5.60	45.55	74.00	-28.45	peak
6	5446.000	49.05	2.01	51.06	74.00	-22.94	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.

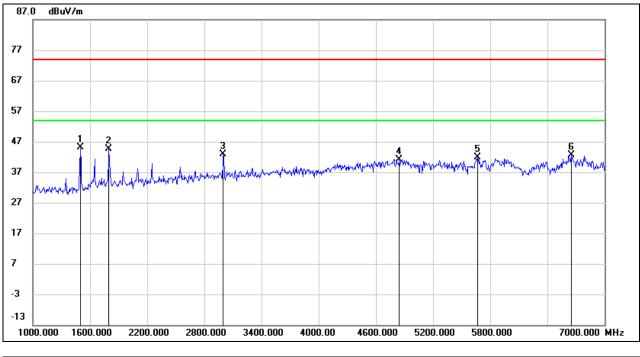
3. Peak: Peak detector.

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.



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	1498.000	57.43	-12.23	45.20	74.00	-28.80	peak
2	1798.000	54.75	-10.07	44.68	74.00	-29.32	peak
3	2998.000	48.43	-5.60	42.83	74.00	-31.17	peak
4	4846.000	40.58	0.66	41.24	74.00	-32.76	peak
5	5668.000	39.38	2.47	41.85	74.00	-32.15	peak
6	6652.000	37.10	5.52	42.62	74.00	-31.38	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.

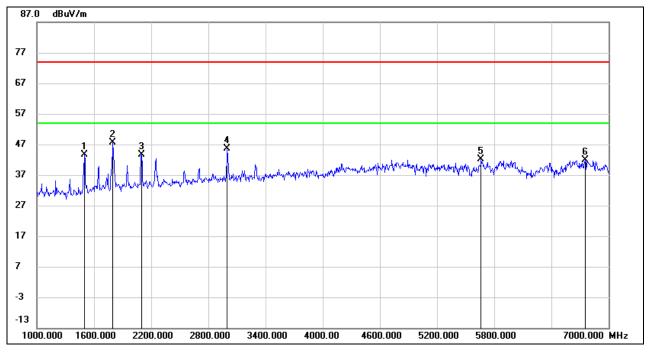
3. Peak: Peak detector.

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.



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	1498.000	55.98	-12.23	43.75	74.00	-30.25	peak
2	1798.000	57.79	-10.07	47.72	74.00	-26.28	peak
3	2098.000	53.29	-9.63	43.66	74.00	-30.34	peak
4	2998.000	51.26	-5.60	45.66	74.00	-28.34	peak
5	5662.000	39.58	2.47	42.05	74.00	-31.95	peak
6	6754.000	36.42	5.56	41.98	74.00	-32.02	peak

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

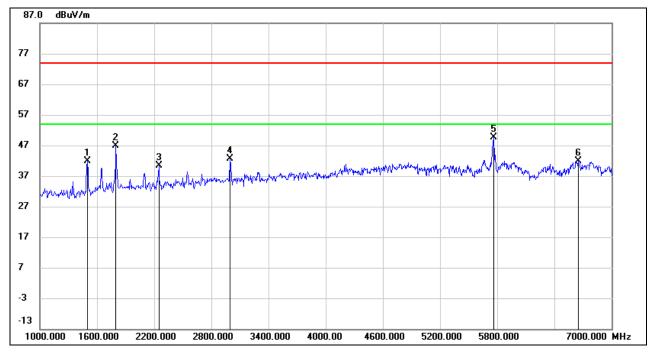
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Peak: Peak detector.

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

5. Proper operation of the transmitter prior to adding the filter to the measurement chain.

HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, HORIZONTAL)



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1498.000	54.15	-12.23	41.92	74.00	-32.08	peak
2	1798.000	56.87	-10.07	46.80	74.00	-27.20	peak
3	2248.000	49.17	-8.89	40.28	74.00	-33.72	peak
4	2992.000	48.27	-5.63	42.64	74.00	-31.36	peak
5	5764.000	47.16	2.50	49.66	74.00	-24.34	peak
6	6652.000	36.43	5.52	41.95	74.00	-32.05	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.

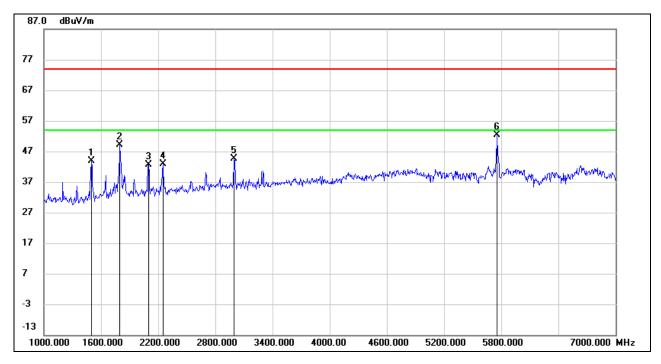
3. Peak: Peak detector.

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.



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	1498.000	56.15	-12.23	43.92	74.00	-30.08	peak
2	1798.000	59.19	-10.07	49.12	74.00	-24.88	peak
3	2098.000	52.27	-9.63	42.64	74.00	-31.36	peak
4	2248.000	51.70	-8.89	42.81	74.00	-31.19	peak
5	2998.000	50.16	-5.60	44.56	74.00	-29.44	peak
6	5758.000	49.91	2.50	52.41	74.00	-21.59	peak

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

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

3. Peak: Peak detector.

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

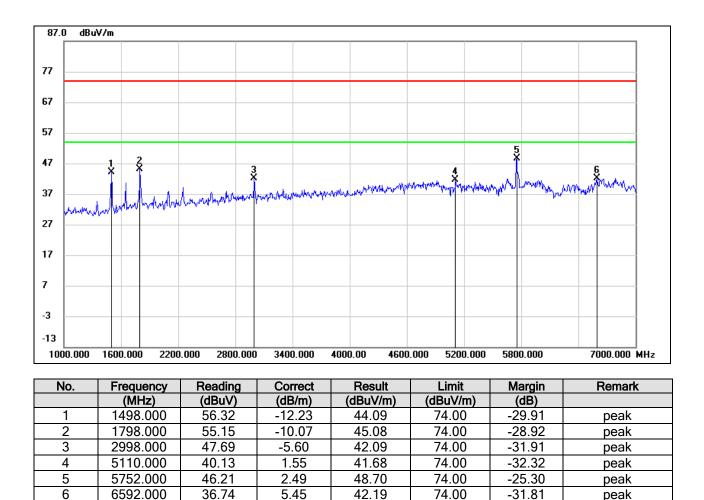
5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



STRADDLE CHANNEL 144

MIMO MODE TEST RESULTS (WORST CASE)

HARMONICS AND SPURIOUS EMISSIONS (HORIZONTAL)



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

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

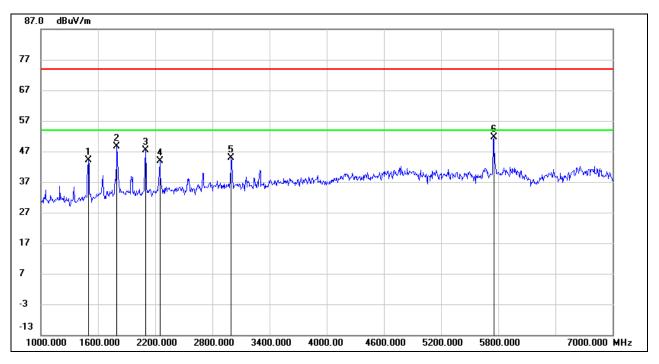
3. Peak: Peak detector.

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

5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



HARMONICS AND SPURIOUS EMISSIONS (VERTICAL)



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1498.000	56.25	-12.23	44.02	74.00	-29.98	peak
2	1798.000	58.68	-10.07	48.61	74.00	-25.39	peak
3	2098.000	57.01	-9.63	47.38	74.00	-26.62	peak
4	2248.000	52.70	-8.89	43.81	74.00	-30.19	peak
5	2998.000	50.45	-5.60	44.85	74.00	-29.15	peak
6	5752.000	49.15	2.49	51.64	74.00	-22.36	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.

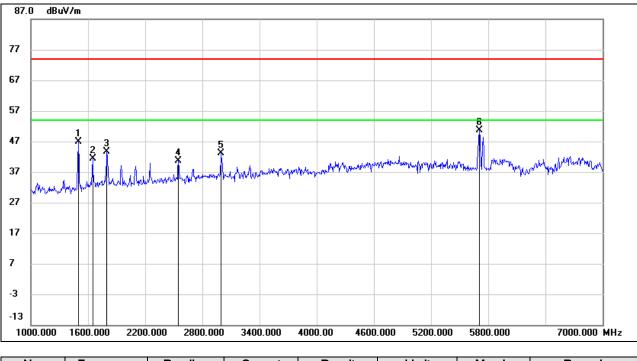
4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band reject filter losses.

5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



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	1498.000	59.10	-12.23	46.87	74.00	-27.13	peak
2	1648.000	52.55	-11.20	41.35	74.00	-32.65	peak
3	1798.000	53.81	-10.07	43.74	74.00	-30.26	peak
4	2548.000	48.66	-8.05	40.61	74.00	-33.39	peak
5	2998.000	48.77	-5.60	43.17	74.00	-30.83	peak
6	5710.000	48.19	2.48	50.67	74.00	-23.33	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.

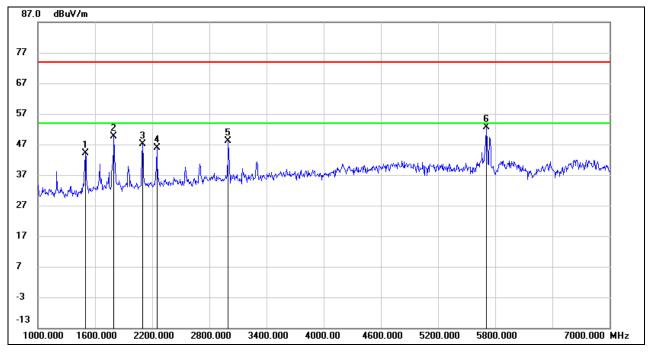
3. Peak: Peak detector.

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.



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	1498.000	56.35	-12.23	44.12	74.00	-29.88	peak
2	1798.000	59.62	-10.07	49.55	74.00	-24.45	peak
3	2098.000	56.78	-9.63	47.15	74.00	-26.85	peak
4	2248.000	54.88	-8.89	45.99	74.00	-28.01	peak
5	2998.000	53.65	-5.60	48.05	74.00	-25.95	peak
6	5704.000	50.05	2.48	52.53	74.00	-21.47	peak

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

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

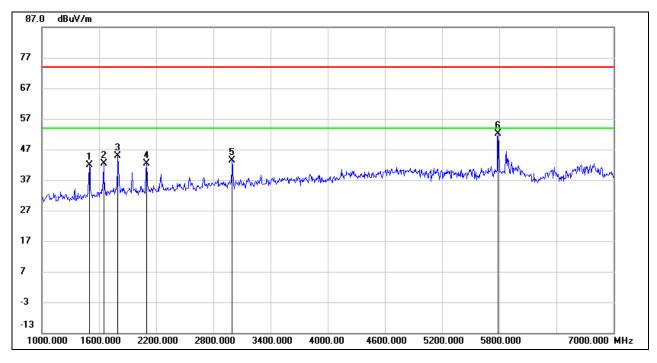
3. Peak: Peak detector.

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

5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, HORIZONTAL)



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1498.000	54.18	-12.23	41.95	74.00	-32.05	peak
2	1648.000	53.68	-11.20	42.48	74.00	-31.52	peak
3	1798.000	54.89	-10.07	44.82	74.00	-29.18	peak
4	2098.000	52.13	-9.63	42.50	74.00	-31.50	peak
5	2998.000	48.96	-5.60	43.36	74.00	-30.64	peak
6	5785.000	49.63	2.50	52.13	74.00	-21.87	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.

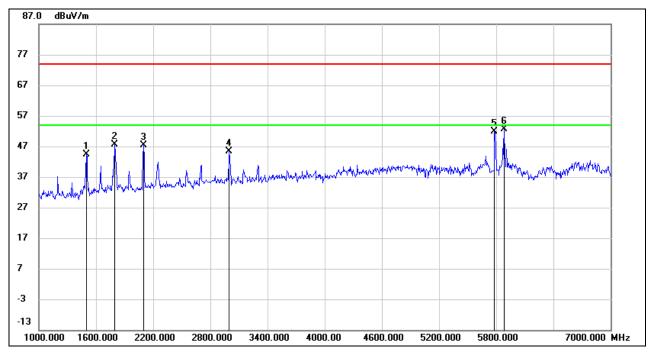
3. Peak: Peak detector.

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.



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	1498.000	56.56	-12.23	44.33	74.00	-29.67	peak
2	1798.000	57.78	-10.07	47.71	74.00	-26.29	peak
3	2098.000	57.13	-9.63	47.50	74.00	-26.50	peak
4	2998.000	50.89	-5.60	45.29	74.00	-28.71	peak
5	5785.000	49.41	2.50	51.91	74.00	-22.09	peak
6	5884.000	49.85	2.84	52.69	74.00	-21.31	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.

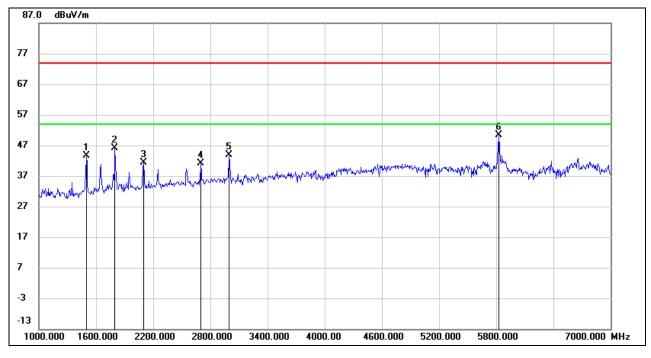
3. Peak: Peak detector.

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.



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	1498.000	55.80	-12.23	43.57	74.00	-30.43	peak
2	1798.000	56.24	-10.07	46.17	74.00	-27.83	peak
3	2098.000	51.10	-9.63	41.47	74.00	-32.53	peak
4	2698.000	48.28	-7.22	41.06	74.00	-32.94	peak
5	2998.000	49.58	-5.60	43.98	74.00	-30.02	peak
6	5830.000	47.86	2.63	50.49	74.00	-23.51	peak

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

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

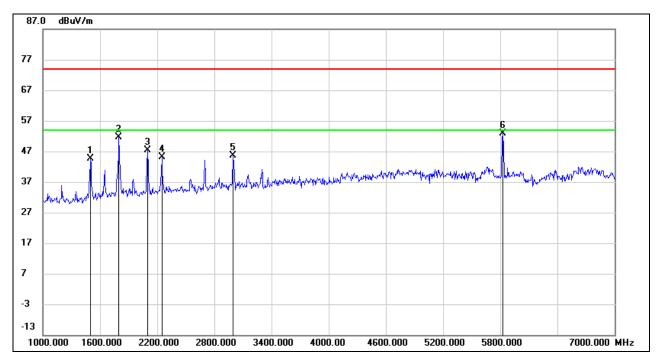
3. Peak: Peak detector.

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

5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, VERTICAL)



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1498.000	56.79	-12.23	44.56	74.00	-29.44	peak
2	1798.000	61.70	-10.07	51.63	74.00	-22.37	peak
3	2098.000	56.92	-9.63	47.29	74.00	-26.71	peak
4	2248.000	54.02	-8.89	45.13	74.00	-28.87	peak
5	2992.000	51.24	-5.63	45.61	74.00	-28.39	peak
6	5830.000	50.24	2.63	52.87	74.00	-21.13	peak

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

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

3. Peak: Peak detector.

4. 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. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

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

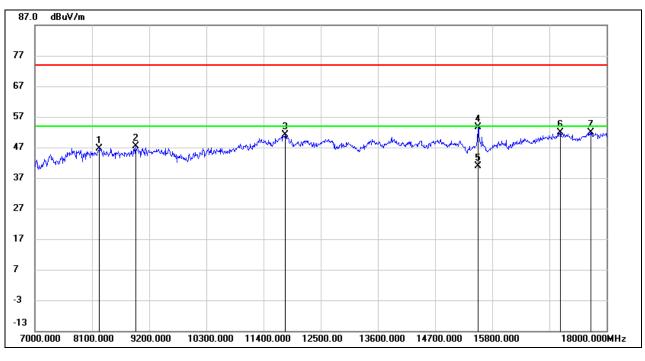


8.3. SPURIOUS EMISSIONS (7 GHz ~ 18 GHz)

8.3.1. 802.11a 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	8236.400	37.38	9.22	46.60	74.00	-27.40	peak
2	8943.700	37.30	10.03	47.33	74.00	-26.67	peak
3	11819.100	35.59	15.58	51.17	74.00	-22.83	peak
4	15529.400	37.20	16.53	53.73	74.00	-20.27	peak
5	15529.400	24.30	16.53	40.83	54.00	-13.17	AVG
6	17109.000	31.22	20.67	51.89	74.00	-22.11	peak
7	17709.600	29.97	22.01	51.98	74.00	-22.02	peak

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

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

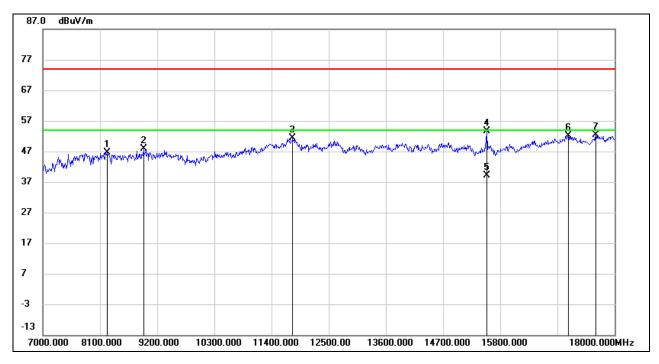
3. Peak: Peak detector.

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

5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, VERTICAL)



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	8235.300	37.35	9.22	46.57	74.00	-27.43	peak
2	8940.400	37.82	10.00	47.82	74.00	-26.18	peak
3	11814.700	35.75	15.58	51.33	74.00	-22.67	peak
4	15547.000	37.05	16.58	53.63	74.00	-20.37	peak
5	15547.000	22.55	16.58	39.13	54.00	-14.87	AVG
6	17113.400	31.48	20.69	52.17	74.00	-21.83	peak
7	17645.800	30.97	21.53	52.50	74.00	-21.50	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.

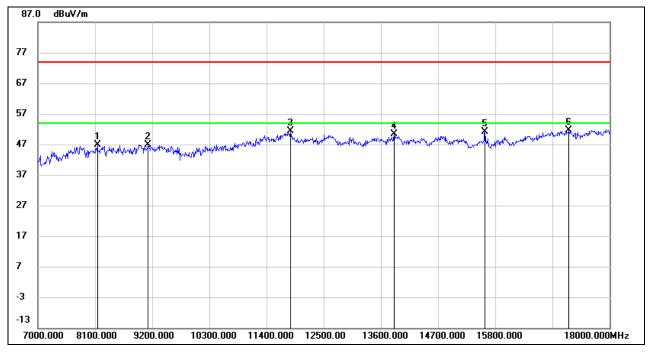
3. Peak: Peak detector.

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

5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, HORIZONTAL)



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	8146.200	37.93	8.90	46.83	74.00	-27.17	peak
2	9126.300	37.13	9.78	46.91	74.00	-27.09	peak
3	11868.600	35.98	15.52	51.50	74.00	-22.50	peak
4	13858.500	33.41	16.92	50.33	74.00	-23.67	peak
5	15607.500	34.45	16.70	51.15	74.00	-22.85	peak
6	17225.600	30.64	21.00	51.64	74.00	-22.36	peak

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

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

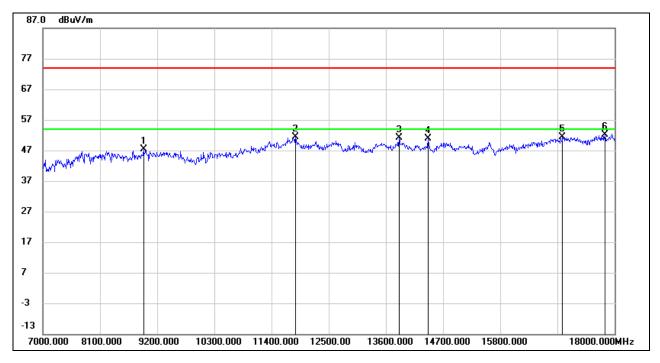
3. Peak: Peak detector.

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

5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, VERTICAL)



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	8941.500	37.25	10.01	47.26	74.00	-26.74	peak
2	11868.600	35.78	15.52	51.30	74.00	-22.70	peak
3	13861.800	34.24	16.92	51.16	74.00	-22.84	peak
4	14418.400	34.14	16.82	50.96	74.00	-23.04	peak
5	17000.100	31.13	20.23	51.36	74.00	-22.64	peak
6	17820.700	29.39	22.72	52.11	74.00	-21.89	peak

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

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

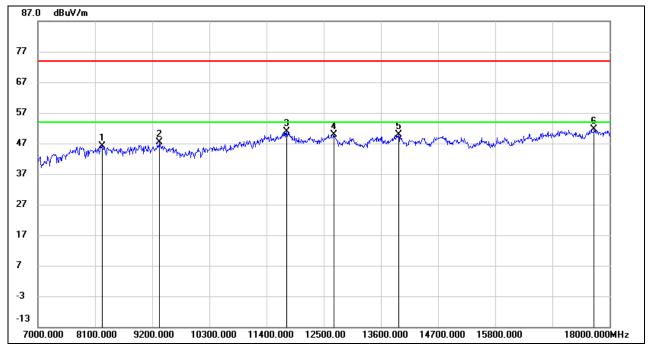
3. Peak: Peak detector.

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

5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, HORIZONTAL)



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	8238.600	37.03	9.21	46.24	74.00	-27.76	peak
2	9349.600	37.29	10.05	47.34	74.00	-26.66	peak
3	11788.300	35.35	15.54	50.89	74.00	-23.11	peak
4	12703.500	34.37	15.48	49.85	74.00	-24.15	peak
5	13942.100	32.94	16.89	49.83	74.00	-24.17	peak
6	17711.800	29.72	22.03	51.75	74.00	-22.25	peak

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

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

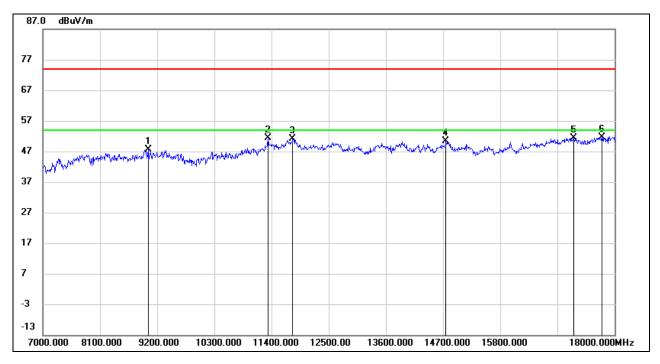
3. Peak: Peak detector.

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

5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, VERTICAL)



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	9026.200	37.22	10.46	47.68	74.00	-26.32	peak
2	11342.800	37.22	14.05	51.27	74.00	-22.73	peak
3	11812.500	35.60	15.59	51.19	74.00	-22.81	peak
4	14755.000	33.73	16.72	50.45	74.00	-23.55	peak
5	17213.500	30.42	21.02	51.44	74.00	-22.56	peak
6	17762.400	29.17	22.43	51.60	74.00	-22.40	peak

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

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

3. Peak: Peak detector.

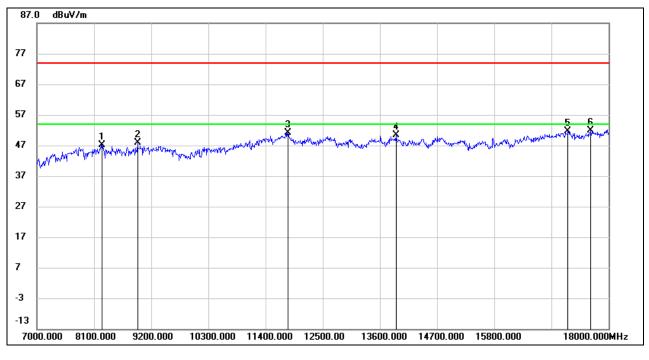
4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.

5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



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No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	8263.900	37.95	9.12	47.07	74.00	-26.93	peak
2	8941.500	37.91	10.01	47.92	74.00	-26.08	peak
3	11835.600	35.57	15.56	51.13	74.00	-22.87	peak
4	13912.400	33.51	16.90	50.41	74.00	-23.59	peak
5	17220.100	30.67	21.01	51.68	74.00	-22.32	peak
6	17665.600	30.24	21.68	51.92	74.00	-22.08	peak

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

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

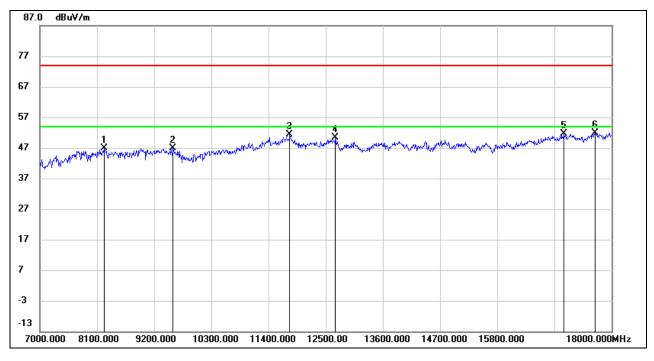
3. Peak: Peak detector.

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

5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, VERTICAL)



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	8238.600	37.60	9.21	46.81	74.00	-27.19	peak
2	9570.700	36.48	10.46	46.94	74.00	-27.06	peak
3	11812.500	35.74	15.59	51.33	74.00	-22.67	peak
4	12692.500	34.83	15.45	50.28	74.00	-23.72	peak
5	17090.300	31.13	20.59	51.72	74.00	-22.28	peak
6	17683.200	29.95	21.81	51.76	74.00	-22.24	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. AVG: VBW=1/Ton, where: Ton is the transmitting duration.

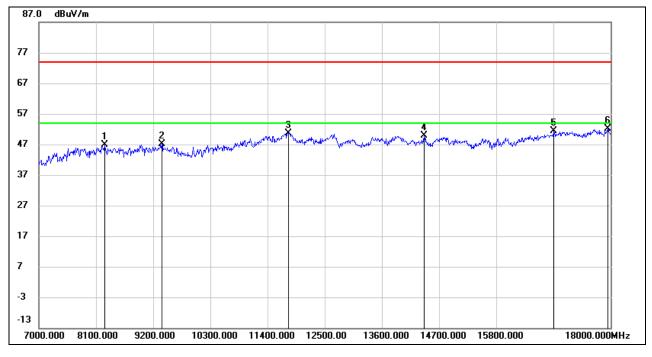
5. For the transmitting duration, please refer to clause 7.1.

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

7. Proper operation of the transmitter prior to adding the filter to the measurement chain.



HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, HORIZONTAL)



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	8270.500	37.78	9.09	46.87	74.00	-27.13	peak
2	9367.200	37.10	10.14	47.24	74.00	-26.76	peak
3	11811.400	35.11	15.59	50.70	74.00	-23.30	peak
4	14421.700	32.98	16.82	49.80	74.00	-24.20	peak
5	16903.300	31.36	20.00	51.36	74.00	-22.64	peak
6	17952.700	29.38	22.68	52.06	74.00	-21.94	peak

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

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

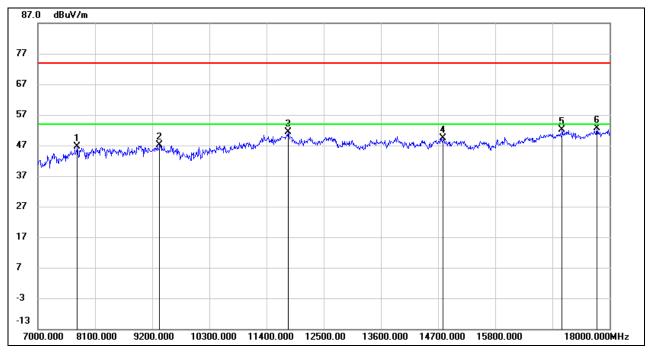
3. Peak: Peak detector.

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

5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, VERTICAL)



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	7768.900	38.49	8.14	46.63	74.00	-27.37	peak
2	9351.800	37.02	10.06	47.08	74.00	-26.92	peak
3	11822.400	35.73	15.58	51.31	74.00	-22.69	peak
4	14805.600	32.56	16.80	49.36	74.00	-24.64	peak
5	17092.500	31.44	20.60	52.04	74.00	-21.96	peak
6	17759.100	30.26	22.41	52.67	74.00	-21.33	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. AVG: VBW=1/Ton, where: Ton is the transmitting duration.

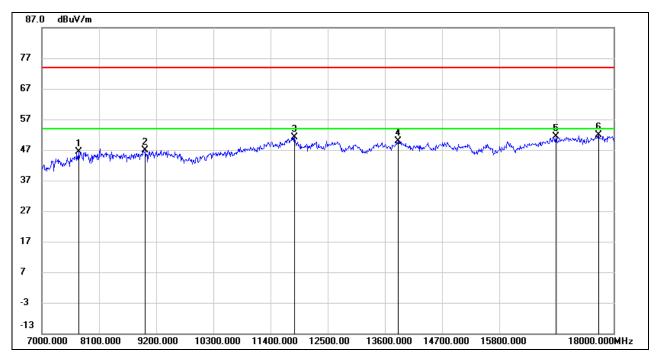
5. For the transmitting duration, please refer to clause 7.1.

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

7. Proper operation of the transmitter prior to adding the filter to the measurement chain.



HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, HORIZONTAL)



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	7711.700	38.48	7.90	46.38	74.00	-27.62	peak
2	8993.200	36.44	10.55	46.99	74.00	-27.01	peak
3	11868.600	35.69	15.52	51.21	74.00	-22.79	peak
4	13854.100	32.92	16.93	49.85	74.00	-24.15	peak
5	16890.100	31.41	19.96	51.37	74.00	-22.63	peak
6	17720.600	29.81	22.10	51.91	74.00	-22.09	peak

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

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

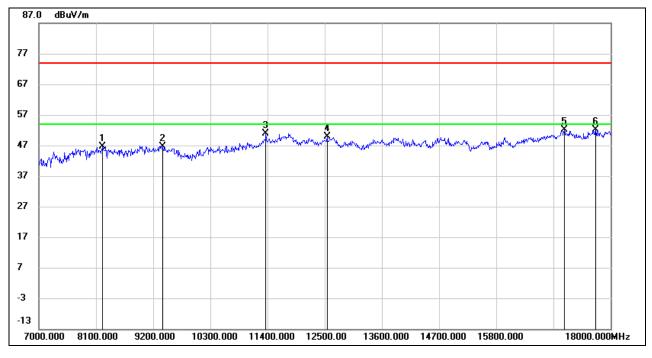
3. Peak: Peak detector.

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

5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, VERTICAL)



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	8225.400	37.37	9.26	46.63	74.00	-27.37	peak
2	9385.900	36.43	10.24	46.67	74.00	-27.33	peak
3	11373.600	36.79	14.14	50.93	74.00	-23.07	peak
4	12546.200	34.49	15.33	49.82	74.00	-24.18	peak
5	17113.400	31.33	20.69	52.02	74.00	-21.98	peak
6	17715.100	30.09	22.06	52.15	74.00	-21.85	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. AVG: VBW=1/Ton, where: Ton is the transmitting duration.

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

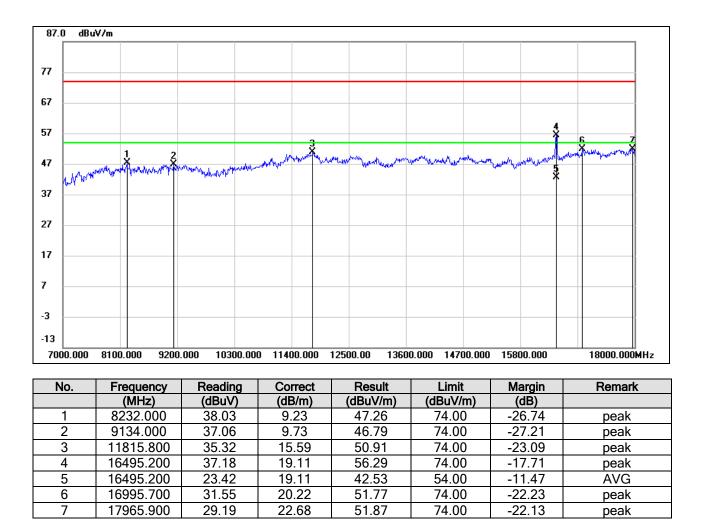
6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.

7. Proper operation of the transmitter prior to adding the filter to the measurement chain.



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HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, HORIZONTAL)



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

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

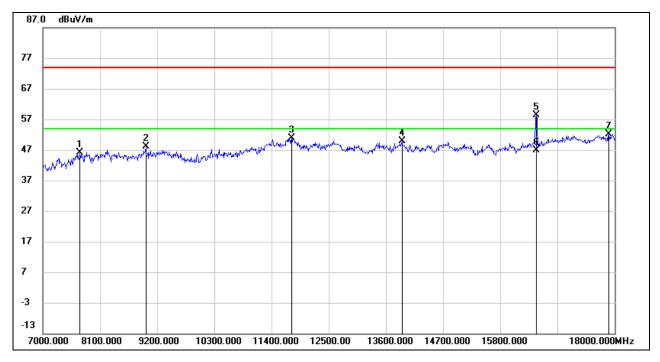
3. Peak: Peak detector.

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

5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, VERTICAL)



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	7715.000	38.17	7.92	46.09	74.00	-27.91	peak
2	8983.300	37.76	10.46	48.22	74.00	-25.78	peak
3	11794.900	35.33	15.58	50.91	74.00	-23.09	peak
4	13917.900	32.87	16.89	49.76	74.00	-24.24	peak
5	16493.000	39.30	19.09	58.39	74.00	-15.61	peak
6	16493.000	27.74	19.09	46.83	54.00	-7.17	AVG
7	17898.800	29.47	22.70	52.17	74.00	-21.83	peak

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

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

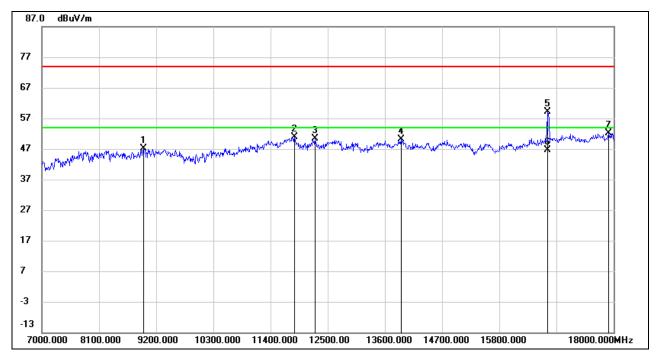
3. Peak: Peak detector.

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

5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, HORIZONTAL)



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	8967.900	36.86	10.29	47.15	74.00	-26.85	peak
2	11869.700	35.31	15.51	50.82	74.00	-23.18	peak
3	12266.800	35.23	15.23	50.46	74.00	-23.54	peak
4	13913.500	33.12	16.90	50.02	74.00	-23.98	peak
5	16739.400	39.49	19.66	59.15	74.00	-14.85	peak
6	16739.400	26.86	19.66	46.52	54.00	-7.48	AVG
7	17907.600	29.54	22.69	52.23	74.00	-21.77	peak

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

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

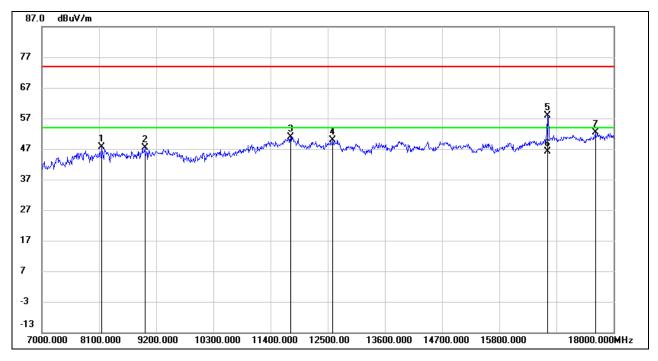
3. Peak: Peak detector.

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

5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, VERTICAL)



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	8160.500	38.58	9.03	47.61	74.00	-26.39	peak
2	8988.800	36.85	10.51	47.36	74.00	-26.64	peak
3	11790.500	35.27	15.56	50.83	74.00	-23.17	peak
4	12603.400	34.58	15.29	49.87	74.00	-24.13	peak
5	16740.500	38.23	19.67	57.90	74.00	-16.10	peak
6	16740.500	26.52	19.67	46.19	54.00	-7.81	AVG
7	17649.100	30.87	21.55	52.42	74.00	-21.58	peak

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

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

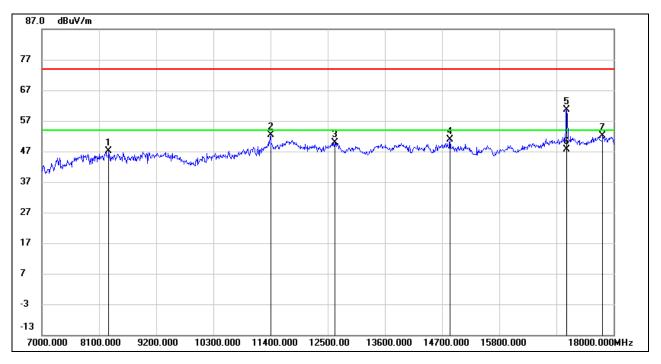
3. Peak: Peak detector.

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

5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, HORIZONTAL)



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	8287.000	38.07	9.02	47.09	74.00	-26.91	peak
2	11401.100	38.26	14.22	52.48	74.00	-21.52	peak
3	12632.000	34.53	15.35	49.88	74.00	-24.12	peak
4	14859.500	34.03	16.83	50.86	74.00	-23.14	peak
5	17099.100	39.95	20.63	60.58	74.00	-13.42	peak
6	17099.100	26.90	20.63	47.53	54.00	-6.47	AVG
7	17795.400	29.42	22.69	52.11	74.00	-21.89	peak

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

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

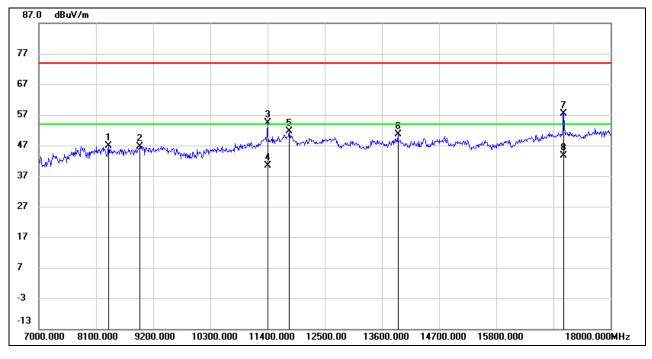
3. Peak: Peak detector.

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

5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, VERTICAL)



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	8345.300	38.12	8.80	46.92	74.00	-27.08	peak
2	8949.200	36.66	10.09	46.75	74.00	-27.25	peak
3	11401.100	40.27	14.22	54.49	74.00	-19.51	peak
4	11401.100	26.13	14.22	40.35	54.00	-13.65	AVG
5	11826.800	36.03	15.58	51.61	74.00	-22.39	peak
6	13915.700	33.62	16.89	50.51	74.00	-23.49	peak
7	17100.200	36.85	20.64	57.49	74.00	-16.51	peak
8	17100.200	23.04	20.64	43.68	54.00	-10.32	AVG

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

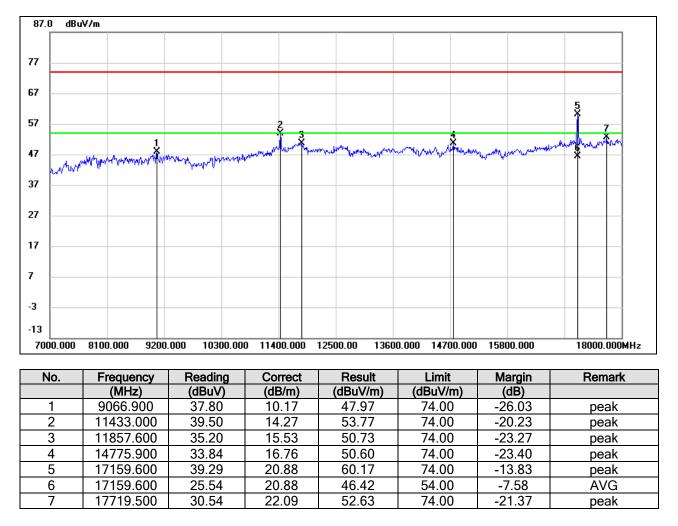
- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
- 5. For the transmitting duration, please refer to clause 7.1.

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

7. Proper operation of the transmitter prior to adding the filter to the measurement chain.



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HARMONICS AND SPURIOUS EMISSIONS (HORIZONTAL)

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

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

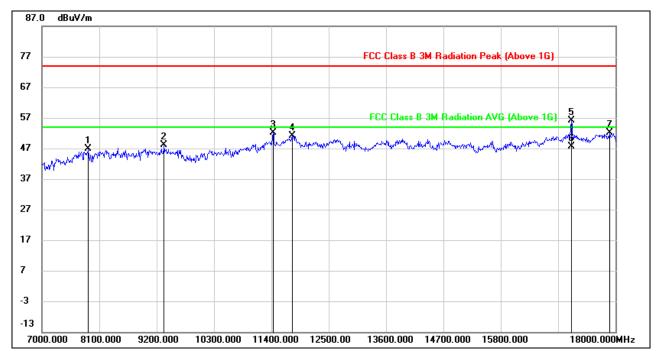
3. Peak: Peak detector.

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

5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



HARMONICS AND SPURIOUS EMISSIONS (VERTICAL)



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	7896.500	38.90	7.97	46.87	74.00	-27.13	peak
2	9345.200	37.97	10.04	48.01	74.00	-25.99	peak
3	11434.100	37.75	14.27	52.02	74.00	-21.98	peak
4	11802.600	35.56	15.60	51.16	74.00	-22.84	peak
5	17159.600	35.17	20.88	56.05	74.00	-17.95	peak
6	17159.600	26.64	20.88	47.52	54.00	-6.48	AVG
7	17893.300	29.38	22.70	52.08	74.00	-21.92	peak

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

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

3. Peak: Peak detector.

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

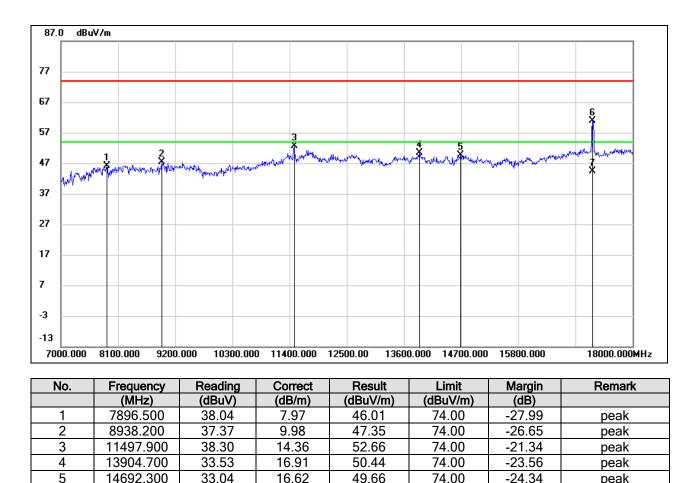
5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



peak peak AVG

UNII-3 BAND

HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, HORIZONTAL)



-							
6	17231.100	39.93	20.99	60.92	74.00	-13.08	
7	17231.100	23.47	20.99	44.46	54.00	-9.54	

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

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

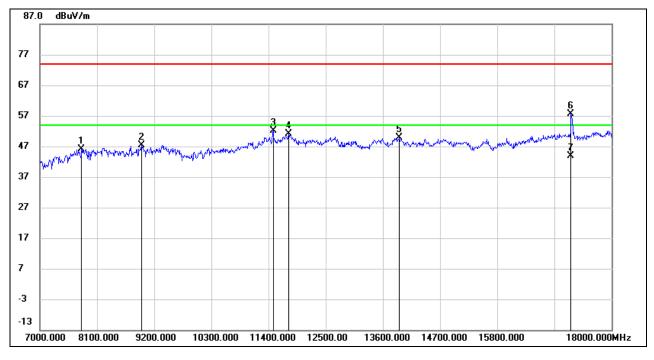
3. Peak: Peak detector.

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

5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, VERTICAL)



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	7809.600	38.01	8.22	46.23	74.00	-27.77	peak
2	8967.900	37.19	10.29	47.48	74.00	-26.52	peak
3	11492.400	37.66	14.35	52.01	74.00	-21.99	peak
4	11786.100	35.66	15.54	51.20	74.00	-22.80	peak
5	13924.500	32.94	16.89	49.83	74.00	-24.17	peak
6	17226.700	36.55	21.00	57.55	74.00	-16.45	peak
7	17226.700	22.76	21.00	43.76	54.00	-10.24	AVG

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

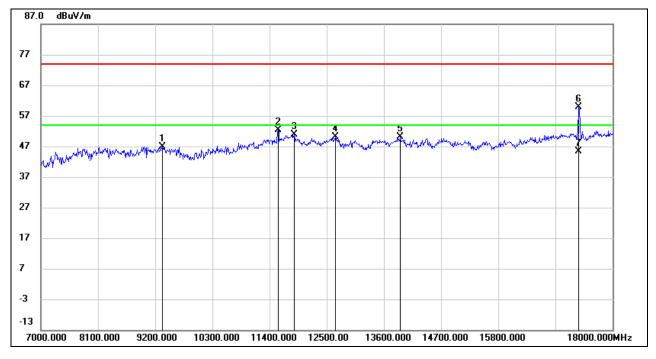
- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
- 5. For the transmitting duration, please refer to clause 7.1.

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

7. Proper operation of the transmitter prior to adding the filter to the measurement chain.



HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, HORIZONTAL)



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	9352.900	36.72	10.07	46.79	74.00	-27.21	peak
2	11566.100	37.99	14.46	52.45	74.00	-21.55	peak
3	11880.700	35.46	15.49	50.95	74.00	-23.05	peak
4	12670.500	34.79	15.42	50.21	74.00	-23.79	peak
5	13921.200	33.19	16.89	50.08	74.00	-23.92	peak
6	17355.400	39.02	20.80	59.82	74.00	-14.18	peak
7	17355.400	24.46	20.80	45.26	54.00	-8.74	AVG

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

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

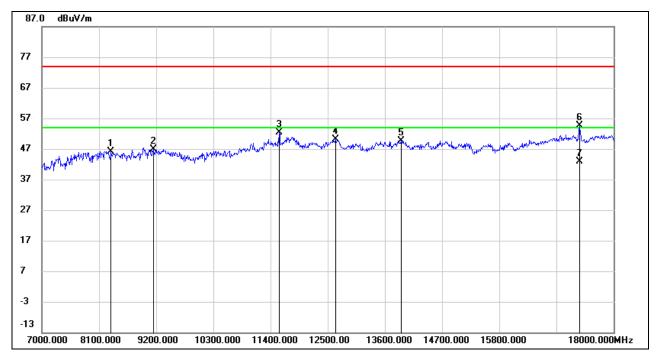
3. Peak: Peak detector.

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

5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, VERTICAL)



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	8335.400	37.33	8.84	46.17	74.00	-27.83	peak
2	9149.400	37.22	9.62	46.84	74.00	-27.16	peak
3	11566.100	37.82	14.46	52.28	74.00	-21.72	peak
4	12655.100	34.74	15.38	50.12	74.00	-23.88	peak
5	13913.500	32.71	16.90	49.61	74.00	-24.39	peak
6	17343.300	33.76	20.82	54.58	74.00	-19.42	peak
7	17343.300	22.12	20.82	42.94	54.00	-11.06	AVG

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

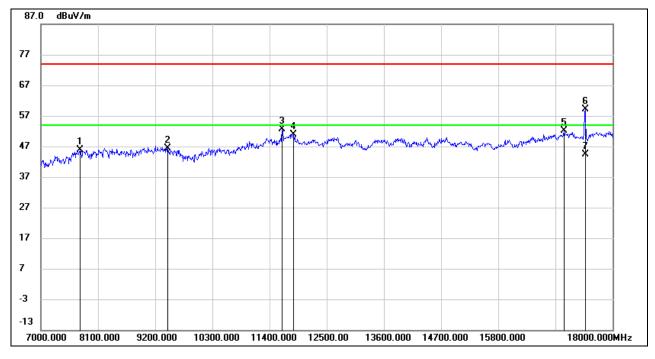
- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
- 5. For the transmitting duration, please refer to clause 7.1.

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

7. Proper operation of the transmitter prior to adding the filter to the measurement chain.



HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, HORIZONTAL)



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	7766.700	37.85	8.12	45.97	74.00	-28.03	peak
2	9443.100	36.03	10.37	46.40	74.00	-27.60	peak
3	11643.100	37.90	14.75	52.65	74.00	-21.35	peak
4	11867.500	35.42	15.52	50.94	74.00	-23.06	peak
5	17067.200	31.74	20.50	52.24	74.00	-21.76	peak
6	17481.900	38.40	20.82	59.22	74.00	-14.78	peak
7	17481.900	23.44	20.82	44.26	54.00	-9.74	AVG

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

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

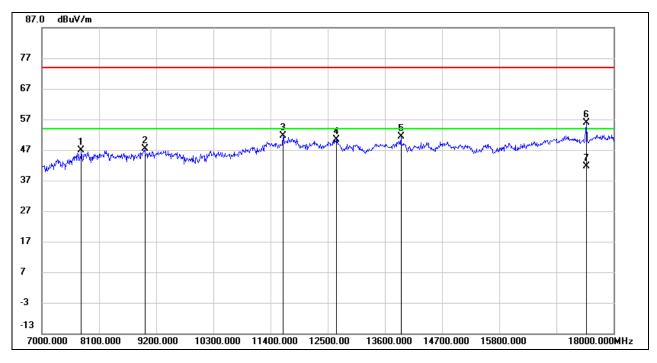
3. Peak: Peak detector.

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

5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, VERTICAL)



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	7766.700	38.69	8.12	46.81	74.00	-27.19	peak
2	8981.100	36.84	10.43	47.27	74.00	-26.73	peak
3	11648.600	36.75	14.79	51.54	74.00	-22.46	peak
4	12674.900	34.94	15.42	50.36	74.00	-23.64	peak
5	13913.500	34.56	16.90	51.46	74.00	-22.54	peak
6	17484.100	34.96	20.82	55.78	74.00	-18.22	peak
7	17484.100	20.70	20.82	41.52	54.00	-12.48	AVG

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

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

3. Peak: Peak detector.

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

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

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

7. Proper operation of the transmitter prior to adding the filter to the measurement chain.



8.3.2. 802.11ac VHT20 MIMO MODE

UNII-1 BAND

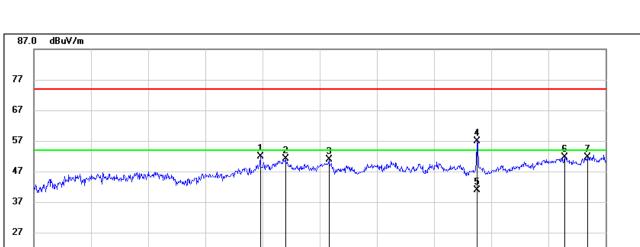
17

7

-3 -13

7000.000

8100.000



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	11365.900	37.82	14.11	51.93	74.00	-22.07	peak
2	11844.400	35.59	15.54	51.13	74.00	-22.87	peak
3	12677.100	35.50	15.43	50.93	74.00	-23.07	peak
4	15527.200	40.46	16.53	56.99	74.00	-17.01	peak
5	15527.200	24.46	16.53	40.99	54.00	-13.01	AVG
6	17217.900	30.57	21.01	51.58	74.00	-22.42	peak
7	17665.600	29.91	21.68	51.59	74.00	-22.41	peak

12500.00

13600.000 14700.000 15800.000

18000.000MHz

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

10300.000

11400.000

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

3. Peak: Peak detector.

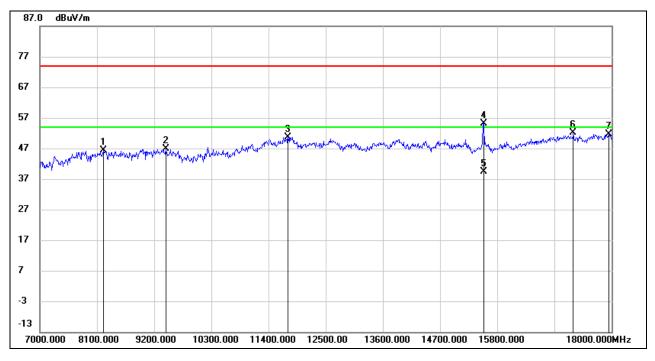
9200.000

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

5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, VERTICAL)



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	8223.200	36.99	9.28	46.27	74.00	-27.73	peak
2	9429.900	36.53	10.35	46.88	74.00	-27.12	peak
3	11783.900	35.10	15.52	50.62	74.00	-23.38	peak
4	15545.900	38.54	16.57	55.11	74.00	-18.89	peak
5	15545.900	22.84	16.57	39.41	54.00	-14.59	AVG
6	17268.500	31.31	20.94	52.25	74.00	-21.75	peak
7	17953.800	28.98	22.68	51.66	74.00	-22.34	peak

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

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

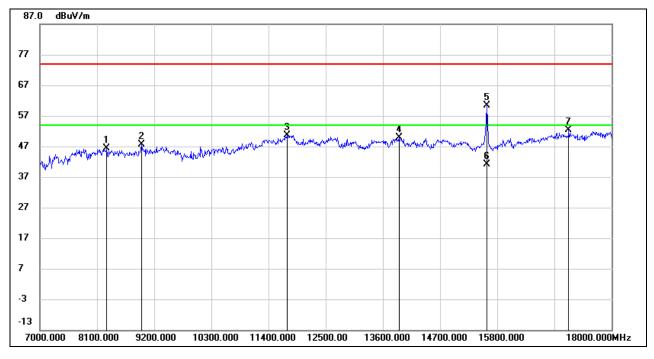
3. Peak: Peak detector.

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

5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, HORIZONTAL)



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	8287.000	37.40	9.02	46.42	74.00	-27.58	peak
2	8966.800	37.44	10.28	47.72	74.00	-26.28	peak
3	11757.500	35.37	15.38	50.75	74.00	-23.25	peak
4	13914.600	33.05	16.90	49.95	74.00	-24.05	peak
5	15607.500	43.76	16.70	60.46	74.00	-13.54	peak
6	15607.500	24.43	16.70	41.13	54.00	-12.87	AVG
7	17180.500	31.46	20.96	52.42	74.00	-21.58	peak

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

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

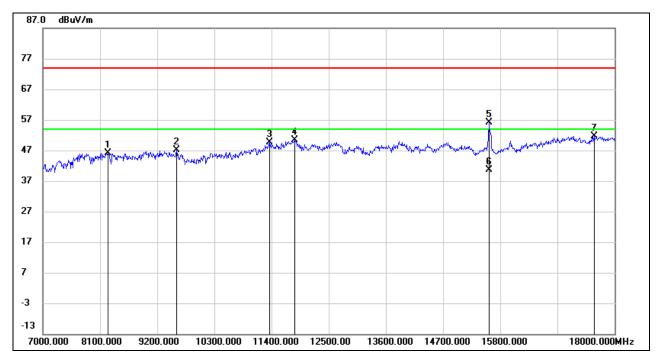
3. Peak: Peak detector.

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

5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, VERTICAL)



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	8257.300	37.09	9.14	46.23	74.00	-27.77	peak
2	9579.500	36.69	10.47	47.16	74.00	-26.84	peak
3	11363.700	35.64	14.11	49.75	74.00	-24.25	peak
4	11840.000	34.83	15.56	50.39	74.00	-23.61	peak
5	15589.900	39.34	16.68	56.02	74.00	-17.98	peak
6	15589.900	23.97	16.68	40.65	54.00	-13.35	AVG
7	17611.700	30.42	21.26	51.68	74.00	-22.32	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. AVG: VBW=1/Ton, where: Ton is the transmitting duration.

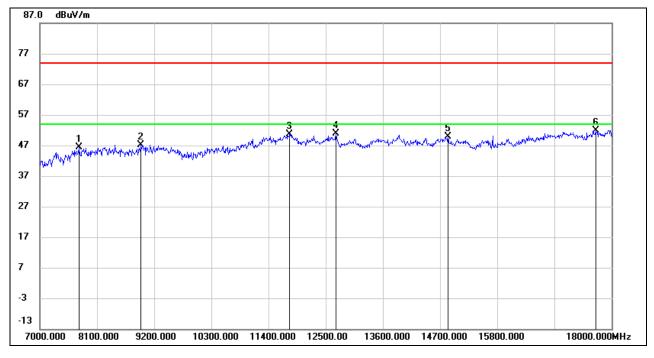
5. For the transmitting duration, please refer to clause 7.1.

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

7. Proper operation of the transmitter prior to adding the filter to the measurement chain.



HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, HORIZONTAL)



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	7756.800	38.23	8.08	46.31	74.00	-27.69	peak
2	8956.900	36.98	10.18	47.16	74.00	-26.84	peak
3	11814.700	35.14	15.58	50.72	74.00	-23.28	peak
4	12699.100	35.48	15.47	50.95	74.00	-23.05	peak
5	14861.700	32.98	16.83	49.81	74.00	-24.19	peak
6	17701.900	30.01	21.96	51.97	74.00	-22.03	peak

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

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

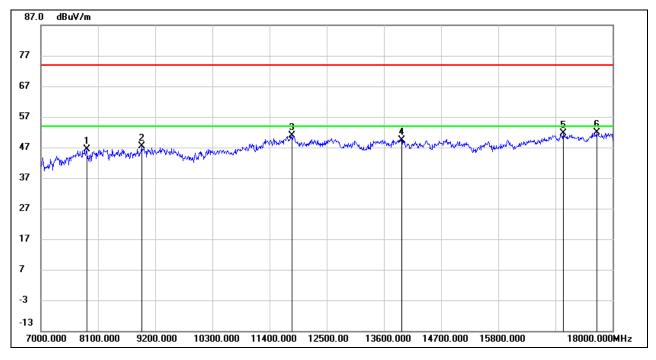
3. Peak: Peak detector.

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

5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, VERTICAL)



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	7883.300	38.41	8.00	46.41	74.00	-27.59	peak
2	8938.200	37.31	9.98	47.29	74.00	-26.71	peak
3	11837.800	35.30	15.56	50.86	74.00	-23.14	peak
4	13947.600	32.62	16.88	49.50	74.00	-24.50	peak
5	17061.700	31.10	20.48	51.58	74.00	-22.42	peak
6	17692.000	30.04	21.87	51.91	74.00	-22.09	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. AVG: VBW=1/Ton, where: Ton is the transmitting duration.

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

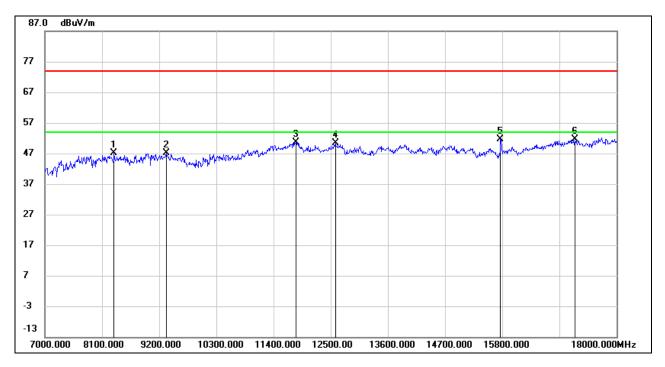
6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.

7. Proper operation of the transmitter prior to adding the filter to the measurement chain.



UNII-2A BAND





No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	8336.500	38.23	8.83	47.06	74.00	-26.94	peak
2	9333.100	37.10	9.97	47.07	74.00	-26.93	peak
3	11831.200	35.17	15.56	50.73	74.00	-23.27	peak
4	12593.500	35.04	15.29	50.33	74.00	-23.67	peak
5	15775.800	34.77	16.82	51.59	74.00	-22.41	peak
6	17205.800	30.60	21.03	51.63	74.00	-22.37	peak

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

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

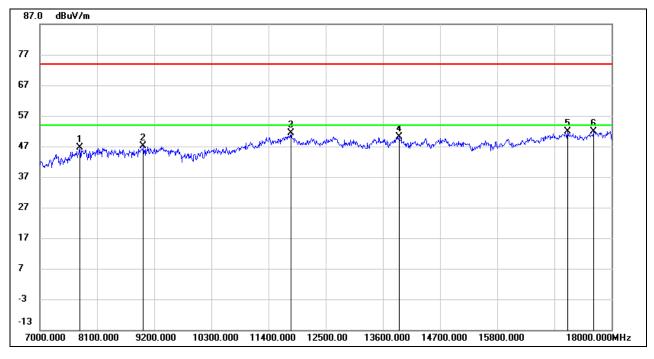
3. Peak: Peak detector.

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

5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, VERTICAL)



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	7773.300	38.56	8.15	46.71	74.00	-27.29	peak
2	8993.200	36.69	10.55	47.24	74.00	-26.76	peak
3	11835.600	35.83	15.56	51.39	74.00	-22.61	peak
4	13914.600	33.18	16.90	50.08	74.00	-23.92	peak
5	17161.800	31.05	20.89	51.94	74.00	-22.06	peak
6	17660.100	30.20	21.63	51.83	74.00	-22.17	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. AVG: VBW=1/Ton, where: Ton is the transmitting duration.

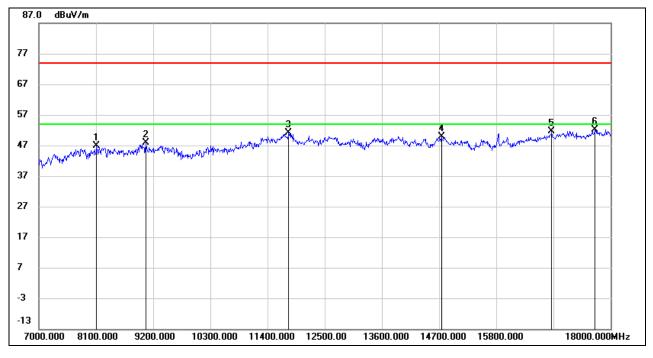
5. For the transmitting duration, please refer to clause 7.1.

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

7. Proper operation of the transmitter prior to adding the filter to the measurement chain.



HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, HORIZONTAL)



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	8115.400	38.13	8.64	46.77	74.00	-27.23	peak
2	9064.700	37.58	10.19	47.77	74.00	-26.23	peak
3	11811.400	35.66	15.59	51.25	74.00	-22.75	peak
4	14748.400	33.27	16.71	49.98	74.00	-24.02	peak
5	16870.300	31.64	19.91	51.55	74.00	-22.45	peak
6	17703.000	30.27	21.96	52.23	74.00	-21.77	peak

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

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

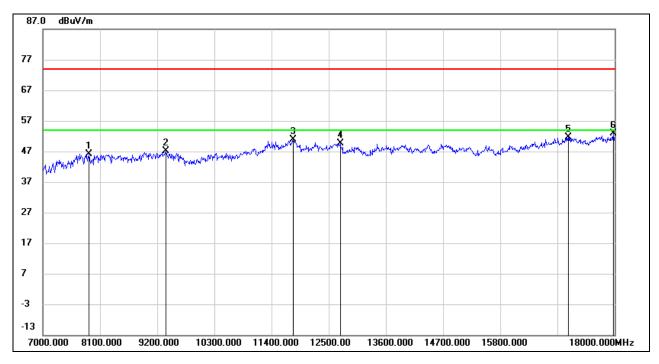
3. Peak: Peak detector.

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

5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, VERTICAL)



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	7892.100	38.25	7.98	46.23	74.00	-27.77	peak
2	9365.000	36.90	10.13	47.03	74.00	-26.97	peak
3	11827.900	35.30	15.57	50.87	74.00	-23.13	peak
4	12724.400	34.03	15.52	49.55	74.00	-24.45	peak
5	17110.100	30.99	20.68	51.67	74.00	-22.33	peak
6	17981.300	30.24	22.67	52.91	74.00	-21.09	peak

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

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

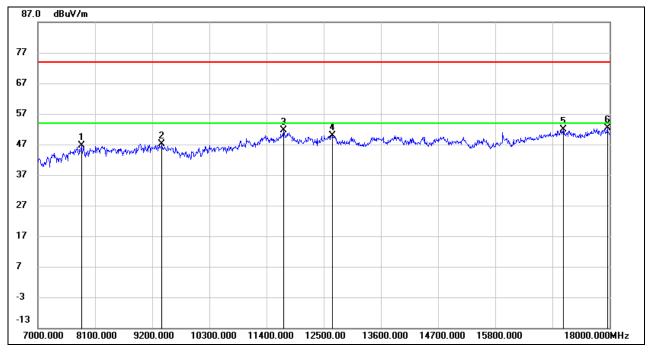
3. Peak: Peak detector.

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

5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, HORIZONTAL)



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	7843.700	38.57	8.13	46.70	74.00	-27.30	peak
2	9395.800	36.89	10.29	47.18	74.00	-26.82	peak
3	11732.200	36.29	15.24	51.53	74.00	-22.47	peak
4	12671.600	34.55	15.42	49.97	74.00	-24.03	peak
5	17109.000	31.24	20.67	51.91	74.00	-22.09	peak
6	17963.700	29.58	22.68	52.26	74.00	-21.74	peak

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

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

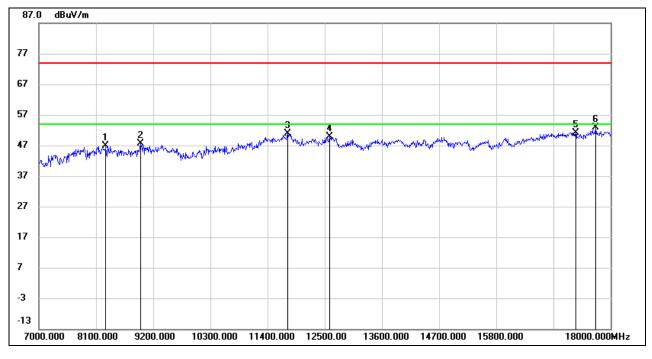
3. Peak: Peak detector.

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

5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, VERTICAL)



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	8296.900	37.87	8.99	46.86	74.00	-27.14	peak
2	8959.100	37.36	10.20	47.56	74.00	-26.44	peak
3	11790.500	35.44	15.56	51.00	74.00	-23.00	peak
4	12588.000	34.58	15.29	49.87	74.00	-24.13	peak
5	17337.800	30.39	20.83	51.22	74.00	-22.78	peak
6	17719.500	30.82	22.09	52.91	74.00	-21.09	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. AVG: VBW=1/Ton, where: Ton is the transmitting duration.

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

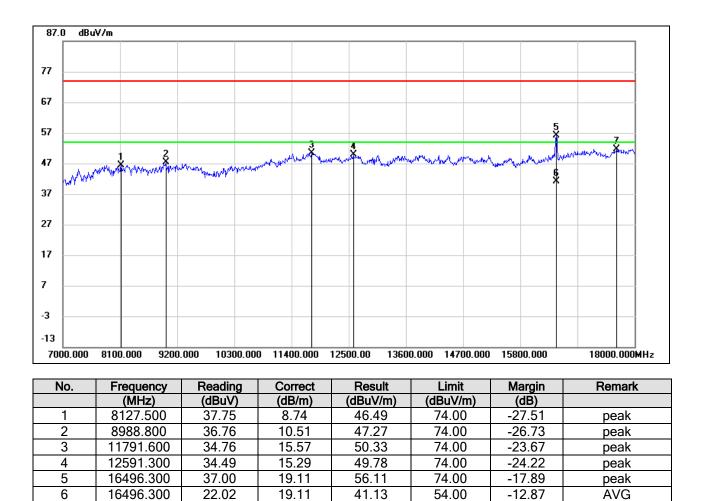
6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.

7. Proper operation of the transmitter prior to adding the filter to the measurement chain.



UNII-2C BAND

HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, HORIZONTAL)



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

30.05

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

51.73

74.00

-22.27

peak

3. Peak: Peak detector.

17666.700

7

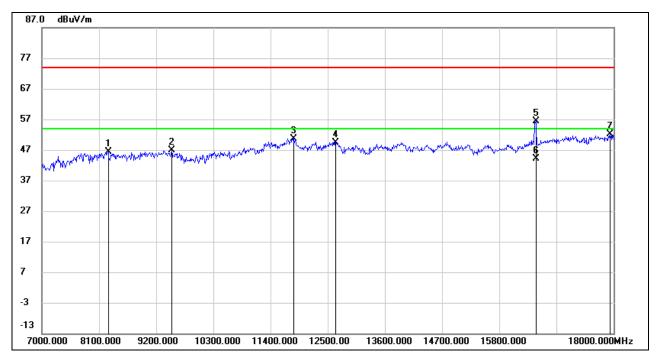
4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.

21.68

5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, VERTICAL)



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	8283.700	37.28	9.03	46.31	74.00	-27.69	peak
2	9505.800	36.50	10.45	46.95	74.00	-27.05	peak
3	11860.900	35.23	15.52	50.75	74.00	-23.25	peak
4	12656.200	34.11	15.38	49.49	74.00	-24.51	peak
5	16504.000	37.18	19.14	56.32	74.00	-17.68	peak
6	16504.000	24.99	19.14	44.13	54.00	-9.87	AVG
7	17943.900	29.45	22.68	52.13	74.00	-21.87	peak

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

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

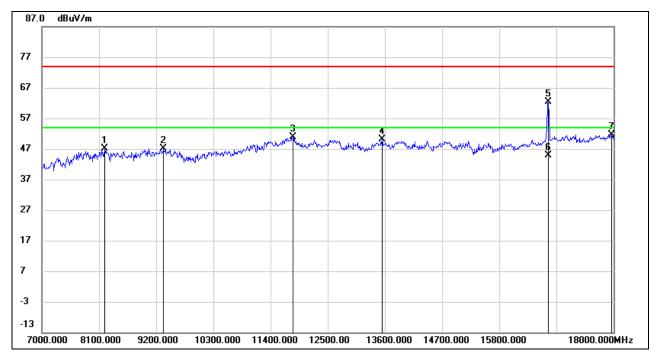
3. Peak: Peak detector.

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

5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, HORIZONTAL)



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	8219.900	37.75	9.29	47.04	74.00	-26.96	peak
2	9352.900	37.11	10.07	47.18	74.00	-26.82	peak
3	11836.700	35.30	15.57	50.87	74.00	-23.13	peak
4	13547.200	33.66	16.42	50.08	74.00	-23.92	peak
5	16747.100	42.64	19.67	62.31	74.00	-11.69	peak
6	16747.100	25.25	19.67	44.92	54.00	-9.08	AVG
7	17971.400	28.99	22.68	51.67	74.00	-22.33	peak

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

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

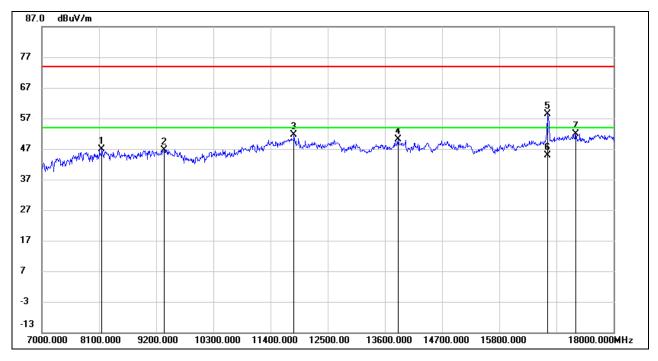
3. Peak: Peak detector.

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

5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, VERTICAL)



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	8161.600	37.93	9.04	46.97	74.00	-27.03	peak
2	9355.100	36.56	10.07	46.63	74.00	-27.37	peak
3	11857.600	36.04	15.53	51.57	74.00	-22.43	peak
4	13861.800	33.16	16.92	50.08	74.00	-23.92	peak
5	16730.600	38.70	19.66	58.36	74.00	-15.64	peak
6	16730.600	25.16	19.66	44.82	54.00	-9.18	AVG
7	17274.000	31.02	20.93	51.95	74.00	-22.05	peak

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

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

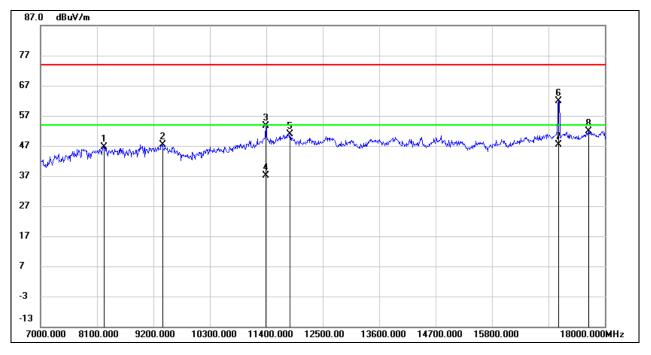
3. Peak: Peak detector.

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

5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, HORIZONTAL)



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	8245.200	37.57	9.18	46.75	74.00	-27.25	peak
2	9382.600	37.26	10.23	47.49	74.00	-26.51	peak
3	11389.000	39.38	14.18	53.56	74.00	-20.44	peak
4	11389.000	22.95	14.18	37.13	54.00	-16.87	AVG
5	11862.000	35.41	15.52	50.93	74.00	-23.07	peak
6	17107.900	41.25	20.67	61.92	74.00	-12.08	peak
7	17107.900	26.82	20.67	47.49	54.00	-6.51	AVG
8	17687.600	29.99	21.84	51.83	74.00	-22.17	peak

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

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

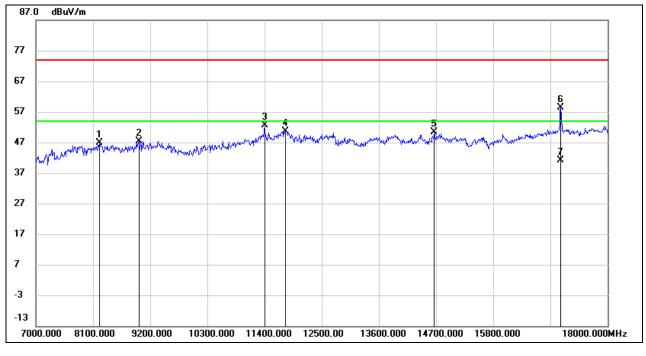
3. Peak: Peak detector.

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

5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, VERTICAL)



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	8226.500	37.75	9.25	47.00	74.00	-27.00	peak
2	8982.200	36.97	10.45	47.42	74.00	-26.58	peak
3	11401.100	38.53	14.22	52.75	74.00	-21.25	peak
4	11796.000	35.02	15.59	50.61	74.00	-23.39	peak
5	14671.400	33.69	16.59	50.28	74.00	-23.72	peak
6	17107.900	37.66	20.67	58.33	74.00	-15.67	peak
7	17107.900	20.46	20.67	41.13	54.00	-12.87	AVG

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

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

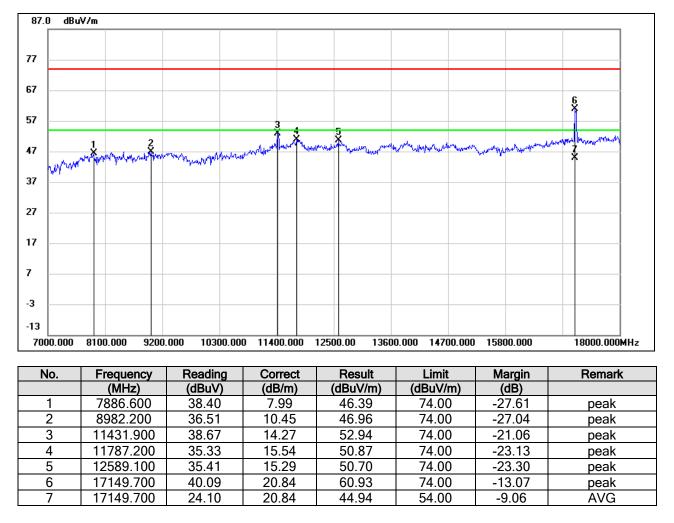
3. Peak: Peak detector.

4. 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.



STRADDLE CHANNEL 144



HARMONICS AND SPURIOUS EMISSIONS (HORIZONTAL)

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

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

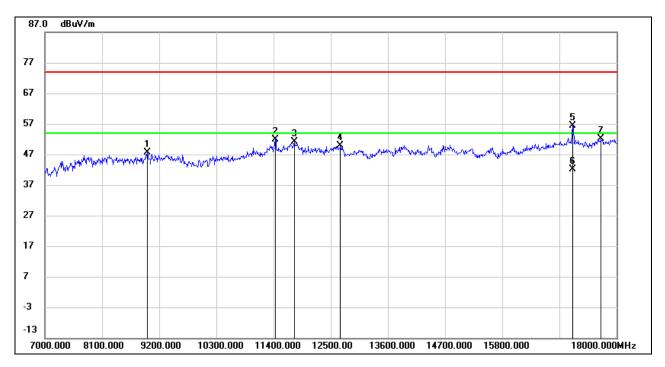
3. Peak: Peak detector.

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

5. Proper operation of the transmitter prior to adding the filter to the measurement chain.







No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	8970.100	37.35	10.32	47.67	74.00	-26.33	peak
2	11441.800	37.58	14.27	51.85	74.00	-22.15	peak
3	11797.100	35.41	15.60	51.01	74.00	-22.99	peak
4	12691.400	34.41	15.46	49.87	74.00	-24.13	peak
5	17156.300	35.55	20.86	56.41	74.00	-17.59	peak
6	17156.300	21.27	20.86	42.13	54.00	-11.87	AVG
7	17703.000	30.24	21.96	52.20	74.00	-21.80	peak

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

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

3. Peak: Peak detector.

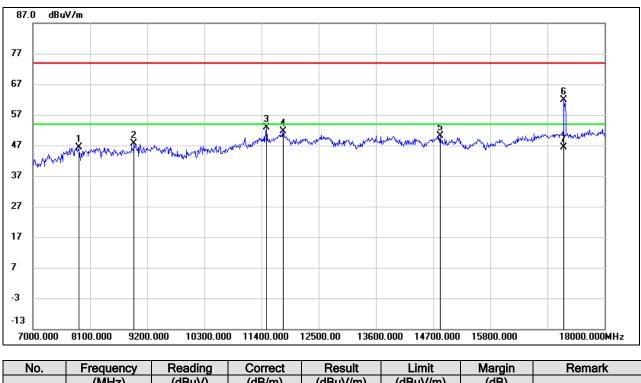
4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.

5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



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	7883.300	38.47	8.00	46.47	74.00	-27.53	peak
2	8948.100	37.50	10.08	47.58	74.00	-26.42	peak
3	11499.000	38.50	14.36	52.86	74.00	-21.14	peak
4	11822.400	35.96	15.58	51.54	74.00	-22.46	peak
5	14832.000	33.22	16.82	50.04	74.00	-23.96	peak
6	17226.700	40.98	21.00	61.98	74.00	-12.02	peak
7	17226.700	25.43	21.00	46.43	54.00	-7.57	AVG

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

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

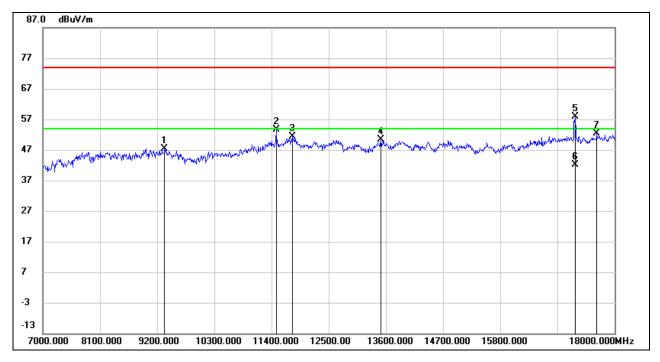
3. Peak: Peak detector.

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

5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, VERTICAL)



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	9350.700	37.41	10.06	47.47	74.00	-26.53	peak
2	11493.500	39.20	14.35	53.55	74.00	-20.45	peak
3	11805.900	35.66	15.61	51.27	74.00	-22.73	peak
4	13510.900	33.89	16.41	50.30	74.00	-23.70	peak
5	17243.200	36.89	20.97	57.86	74.00	-16.14	peak
6	17243.200	21.26	20.97	42.23	54.00	-11.77	AVG
7	17660.100	30.73	21.63	52.36	74.00	-21.64	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. AVG: VBW=1/Ton, where: Ton is the transmitting duration.

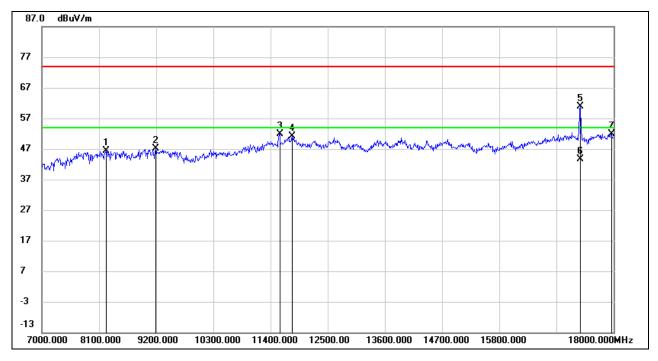
5. For the transmitting duration, please refer to clause 7.1.

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

7. Proper operation of the transmitter prior to adding the filter to the measurement chain.



HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, HORIZONTAL)



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	8235.300	37.23	9.22	46.45	74.00	-27.55	peak
2	9198.900	37.88	9.30	47.18	74.00	-26.82	peak
3	11576.000	37.52	14.48	52.00	74.00	-22.00	peak
4	11827.900	35.61	15.57	51.18	74.00	-22.82	peak
5	17362.000	40.18	20.79	60.97	74.00	-13.03	peak
6	17362.000	22.86	20.79	43.65	54.00	-10.35	AVG
7	17964.800	29.32	22.68	52.00	74.00	-22.00	peak

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

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

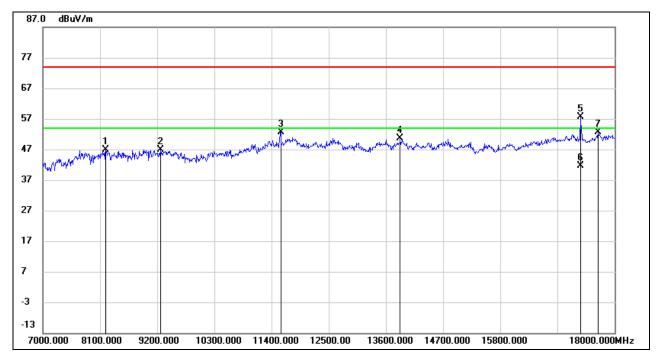
3. Peak: Peak detector.

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

5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, VERTICAL)



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	8215.500	37.48	9.30	46.78	74.00	-27.22	peak
2	9269.300	37.28	9.65	46.93	74.00	-27.07	peak
3	11577.100	38.08	14.48	52.56	74.00	-21.44	peak
4	13880.500	33.65	16.92	50.57	74.00	-23.43	peak
5	17344.400	36.89	20.82	57.71	74.00	-16.29	peak
6	17344.400	20.90	20.82	41.72	54.00	-12.28	AVG
7	17681.000	30.78	21.79	52.57	74.00	-21.43	peak

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

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

3. Peak: Peak detector.

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

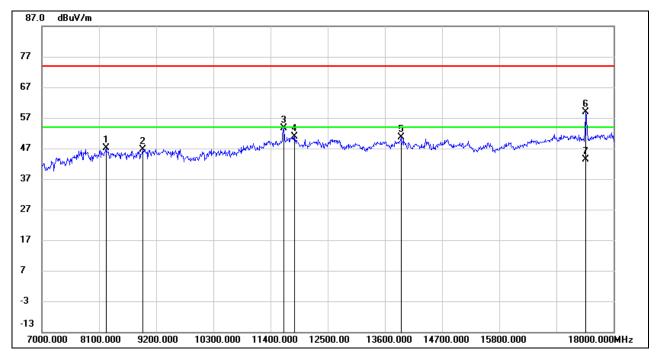
5. For the transmitting duration, please refer to clause 7.1.

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

7. Proper operation of the transmitter prior to adding the filter to the measurement chain.



HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, HORIZONTAL)



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	8233.100	38.00	9.23	47.23	74.00	-26.77	peak
2	8948.100	36.64	10.08	46.72	74.00	-27.28	peak
3	11659.600	38.75	14.84	53.59	74.00	-20.41	peak
4	11869.700	35.25	15.51	50.76	74.00	-23.24	peak
5	13917.900	33.66	16.89	50.55	74.00	-23.45	peak
6	17470.900	38.04	20.80	58.84	74.00	-15.16	peak
7	17470.900	22.55	20.80	43.35	54.00	-10.65	AVG

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

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

3. Peak: Peak detector.

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

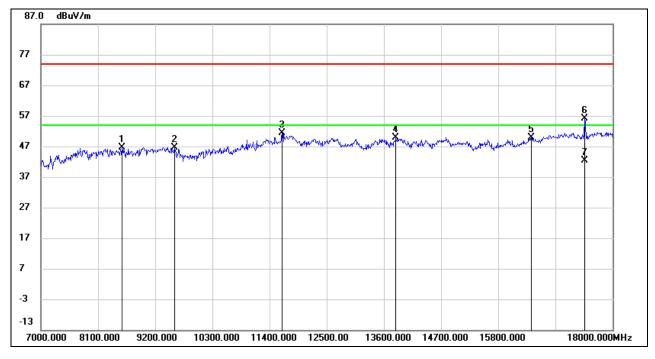
5. For the transmitting duration, please refer to clause 7.1.

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

7. Proper operation of the transmitter prior to adding the filter to the measurement chain.



HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, VERTICAL)



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	8571.900	38.00	8.55	46.55	74.00	-27.45	peak
2	9574.000	36.29	10.46	46.75	74.00	-27.25	peak
3	11649.700	36.50	14.79	51.29	74.00	-22.71	peak
4	13837.600	32.86	16.94	49.80	74.00	-24.20	peak
5	16438.000	31.13	18.86	49.99	74.00	-24.01	peak
6	17464.300	35.43	20.79	56.22	74.00	-17.78	peak
7	17464.300	21.47	20.79	42.26	54.00	-11.74	AVG

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

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

3. Peak: Peak detector.

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

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

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

7. Proper operation of the transmitter prior to adding the filter to the measurement chain.



8.3.3. 802.11ac VHT40 MIMO MODE

UNII-1 BAND

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	1	8260.6	500	38.1		9.	13		47.30	-	74.0	0	-	.70		eak
	2	9574.0		37.2			.46		47.71		74.0			.29		eak
	3	11831.		35.4			.56	_	50.99		74.0		-23			eak
	4	13909.		33.2			.90		50.16		74.0			.84		eak
	5 6	15554.		36.7			.59	_	53.31		74.0			.69		eak
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HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, HORIZONTAL)

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

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

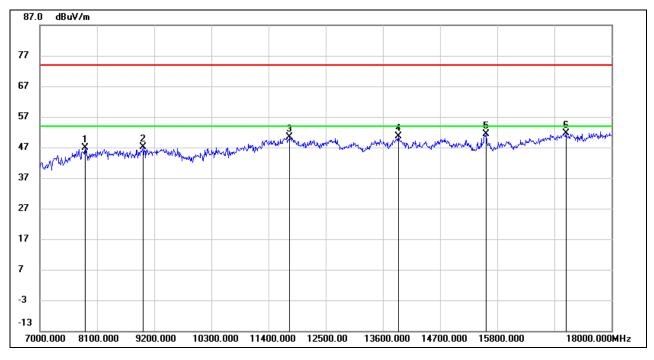
3. Peak: Peak detector.

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

5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, VERTICAL)



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	7878.900	38.95	8.01	46.96	74.00	-27.04	peak
2	8992.100	36.52	10.54	47.06	74.00	-26.94	peak
3	11814.700	34.90	15.58	50.48	74.00	-23.52	peak
4	13906.900	33.65	16.90	50.55	74.00	-23.45	peak
5	15592.100	34.72	16.68	51.40	74.00	-22.60	peak
6	17121.100	31.03	20.72	51.75	74.00	-22.25	peak

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

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

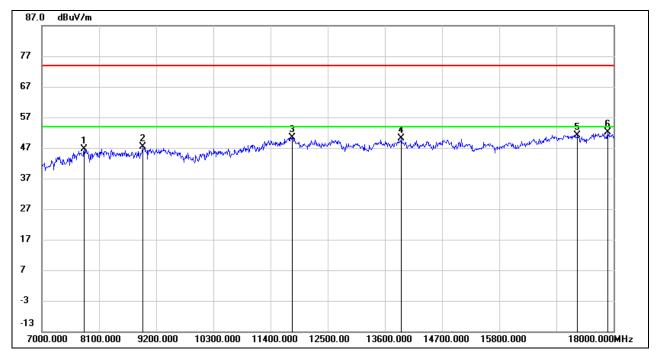
3. Peak: Peak detector.

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

5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, HORIZONTAL)



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	7817.300	38.49	8.20	46.69	74.00	-27.31	peak
2	8939.300	37.44	9.99	47.43	74.00	-26.57	peak
3	11825.700	34.89	15.58	50.47	74.00	-23.53	peak
4	13923.400	33.18	16.89	50.07	74.00	-23.93	peak
5	17309.200	30.36	20.88	51.24	74.00	-22.76	peak
6	17896.600	29.42	22.70	52.12	74.00	-21.88	peak

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

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

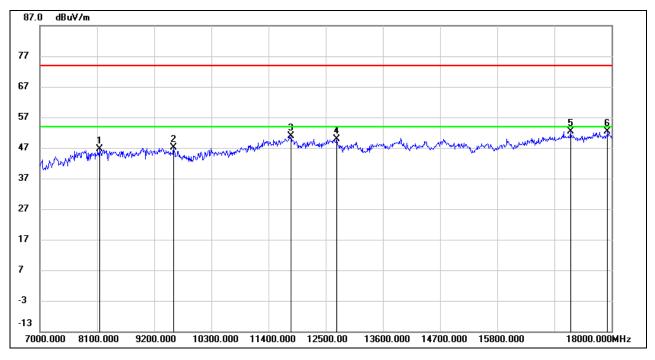
3. Peak: Peak detector.

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

5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, VERTICAL)



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	8146.200	37.70	8.90	46.60	74.00	-27.40	peak
2	9578.400	36.66	10.46	47.12	74.00	-26.88	peak
3	11838.900	35.30	15.56	50.86	74.00	-23.14	peak
4	12712.300	34.46	15.50	49.96	74.00	-24.04	peak
5	17215.700	31.49	21.01	52.50	74.00	-21.50	peak
6	17927.400	29.74	22.69	52.43	74.00	-21.57	peak

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

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

3. Peak: Peak detector.

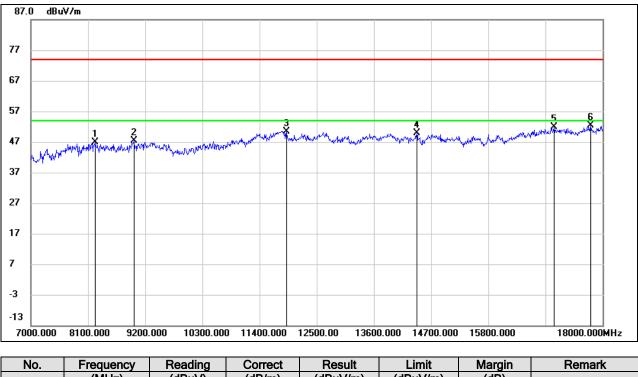
4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.

5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



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	8241.900	37.72	9.20	46.92	74.00	-27.08	peak
2	8985.500	36.79	10.48	47.27	74.00	-26.73	peak
3	11920.300	35.01	15.44	50.45	74.00	-23.55	peak
4	14430.500	32.99	16.80	49.79	74.00	-24.21	peak
5	17073.800	31.26	20.53	51.79	74.00	-22.21	peak
6	17771.200	29.78	22.50	52.28	74.00	-21.72	peak

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

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

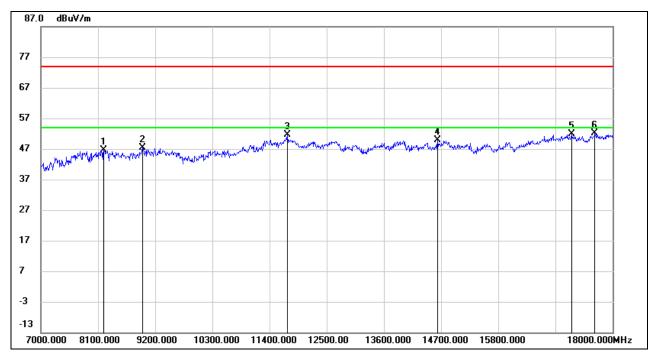
3. Peak: Peak detector.

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

5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, VERTICAL)



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	8213.300	37.33	9.31	46.64	74.00	-27.36	peak
2	8965.700	37.22	10.27	47.49	74.00	-26.51	peak
3	11741.000	36.47	15.28	51.75	74.00	-22.25	peak
4	14643.900	33.38	16.54	49.92	74.00	-24.08	peak
5	17215.700	30.81	21.01	51.82	74.00	-22.18	peak
6	17662.300	30.58	21.65	52.23	74.00	-21.77	peak

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

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

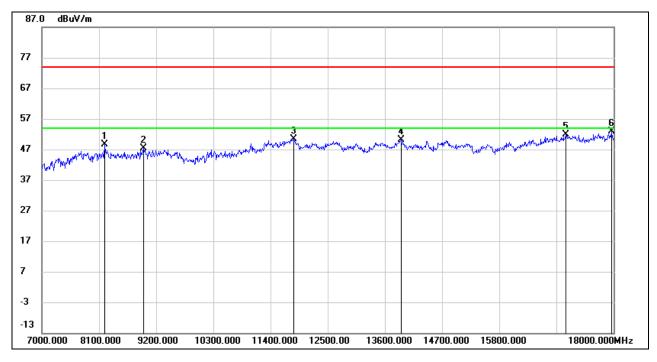
3. Peak: Peak detector.

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

5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, HORIZONTAL)



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	8216.600	39.28	9.30	48.58	74.00	-25.42	peak
2	8963.500	37.03	10.24	47.27	74.00	-26.73	peak
3	11840.000	34.94	15.56	50.50	74.00	-23.50	peak
4	13910.200	33.18	16.90	50.08	74.00	-23.92	peak
5	17076.000	31.35	20.54	51.89	74.00	-22.11	peak
6	17957.100	30.08	22.68	52.76	74.00	-21.24	peak

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

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

3. Peak: Peak detector.

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

5. Proper operation of the transmitter prior to adding the filter to the measurement chain.