

FCC Test Report

Report No.: RF170731C10-1

FCC ID: QXO-AP3917E

Test Model: AP3917e

Series Model: AP7662 (refer to item 3.1 for more details)

Received Date: Jul. 31, 2017

Test Date: Aug. 15 ~ Oct. 26, 2017

Issued Date: Nov. 06, 2017

Applicant: Extreme Networks, Inc.

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FCC Registration / 788550 / TW0003

Designation Number:



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Release Control Record

Issue No.	Description	Date Issued
RF170731C10-1	Original release.	Nov. 06, 2017

1 Certificate of Conformity

Product: Wireless 802.11 a/ac+b/g/n Access Point

Brand: Extreme Networks

Test Model: AP3917e

Series Model: AP7662 (refer to item 3.1 for more details)

Sample Status: Engineering sample

Applicant: Extreme Networks, Inc.

Test Date: Aug. 15 ~ Oct. 26, 2017

Standards: 47 CFR FCC Part 15, Subpart E (Section 15.407)
ANSI C63.10:2013

The above equipment has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's EMC characteristics under the conditions specified in this report.

Prepared by : Sunt Lee , **Date:** Nov. 06, 2017
Sunt Lee / Specialist

Approved by : Ken Liu , **Date:** Nov. 06, 2017
Ken Liu / Senior Manager

2 Summary of Test Results

47 CFR FCC Part 15, Subpart E (Section 15.407)			
FCC Clause	Test Item	Result	Remarks
15.407(b)(6)	AC Power Conducted Emissions	Pass	Meet the requirement of limit. Minimum passing margin is -2.63dB at 0.48235MHz.
15.407(b) (1/2/3/4(i/ii)/6)	Radiated Emissions & Band Edge Measurement	Pass	Meet the requirement of limit. Minimum passing margin is -1.0dB at 5150.00MHz.
15.407(a)(1/2/3)	Max Average Transmit Power	Pass	Meet the requirement of limit.
---	Occupied Bandwidth Measurement	-	Reference only.
15.407(a)(1/2/3)	Peak Power Spectral Density	Pass	Meet the requirement of limit.
15.407(e)	6dB bandwidth	Pass	Meet the requirement of limit. (U-NII-3 Band only)
15.407(g)	Frequency Stability	Pass	Meet the requirement of limit.
15.203	Antenna Requirement	Pass	Antenna connector is IPEX not a standard connector.

*For U-NII-3 band compliance with rule part 15.407(b)(4)(i), the OOB test plots were recorded in Annex A.

2.1 Measurement Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

Measurement	Frequency	Expanded Uncertainty (k=2) (±)
Conducted Emissions at mains ports	150kHz ~ 30MHz	2.94 dB
Radiated Emissions up to 1 GHz	30MHz ~ 200MHz	3.86 dB
	200MHz ~ 1000MHz	3.87 dB
Radiated Emissions above 1 GHz	1GHz ~ 18GHz	2.29 dB
	18GHz ~ 40GHz	2.29 dB

2.2 Modification Record

There were no modifications required for compliance.

3 General Information

3.1 General Description of EUT

Product	Wireless 802.11 a/ac+b/g/n Access Point
Brand	Extreme Networks
Test Model	AP3917e
Series Model	AP7662
Model Difference	Refer to Note
Sample Status	Engineering sample
Power Supply Rating	54Vdc (POE)
Modulation Type	256QAM, 64QAM, 16QAM, QPSK, BPSK
Modulation Technology	OFDM
Transfer Rate	802.11a: 54/48/36/24/18/12/9/6Mbps 802.11n: up to 300Mbps 802.11ac: up to 867Mbps
Operating Frequency	5180~5240MHz, 5745~5825MHz
Number of Channel	5180~5240MHz: 802.11a, 802.11n (HT20), 802.11ac (VHT20): 4 802.11n (HT40), 802.11n (HT40): 2 802.11ac (VHT80): 1 5745~5825MHz: 802.11a, 802.11n (HT20), 802.11ac (VHT20): 5 802.11n (HT40), 802.11n (HT40): 2 802.11ac (VHT80): 1
Output Power	Refer to Note
Antenna Type	Refer to Note
Antenna Connector	Refer to Note
Accessory Device	NA
Cable Supplied	1.75m non-shielded ground cable without core

Note:

1. The EUT incorporates a MIMO function. Physically, the EUT provides 2 completed transmitters and 2 receivers.

Band	Modulation Mode	TX Function	Beamforming
2.4GHz	802.11b	2TX	Not Support
	802.11g	2TX	Not Support
	802.11n (HT20)	2TX	Support
	802.11n (HT40)	2TX	Support
5GHz	802.11a	2TX	Not Support
	802.11n (HT20)	2TX	Support
	802.11n (HT40)	2TX	Support
	802.11ac (VHT20)	2TX	Support
	802.11ac (VHT40)	2TX	Support
	802.11ac (VHT80)	2TX	Support

* The modulation and bandwidth are similar for 802.11n mode for HT20/HT40 and 802.11ac mode for VHT20/VHT40, therefore investigated worst case to representative mode in test report. (Final test mode refer section 3.2.1)

* CDD mode is the worst case for final tests after pretesting CDD mode and beamforming mode except output power test.

2. All models are listed as below. Model: AP3917e was chosen for final test.

Brand	Model	Difference
Extreme Networks	AP3917e	All models are electrically identical, only cover printing different.
	AP7662	

3. The EUT consumes power from following POE. (Support units only)

POE	
Brand	EnGenius
Model	EPA5006GP
Input Power	100-240Vac, 50-60Hz, 0.8A
Output Power	54Vdc, 0.6A
	Pin 4, 5: 54Vdc
	Pin 7, 8: Return

4. The EUT uses following antennas.

Item	Function	Antenna Type	Part No	Connector	Gain (dBi)		
					2.4G	4.9G	5G
1	WLAN	Dipole	ML-2452-HPAG5A8-01	N Male	5	7.5	8
2	WLAN	Dipole	ML-2452-HPAG4A6-01	N Male	4		7.3
3	WLAN	Dipole	ML-2452-HPA6X6-036	N Male	4		6
4	WLAN	Dipole	WS-AO-DQ04360N	4 N Male	5.5		6
5	WLAN	Dipole	ML-2499-HPA4-01	N Male	4.5		
6	WLAN	Dipole	ML-2452-HPA6-01	N Male	5.3	4.6	6.1
7	WLAN	Dipole	ML-5299-HPA5-01	N Male			5.6
8	WLAN & BT LE & Zigbee	Dipole	ML-2499-HPA8-01	N Male	8		
9	WLAN	Dipole	ML-2499-FHPA5-01R	N Male	7.7		
10	WLAN	Dipole	ML-5299-FHPA6-01R	N Male		8.25	8.25
11	WLAN	Panel	ML-2452-PNA5-01R	N Male	4.5	5	5~4.5 MAX:5
12	WLAN & BT LE & Zigbee	Panel	ML-2452-PNA7-01R	N Male	7.8	7	10.7~7 MAX:10.7
13	WLAN	Polarized Panel	ML-2452-PNL6M4-N36	4 N Male	5.6	6.7	6.7
14	WLAN	Polarized Panel	ML-2452-SEC6M4-N36	4 N Male	6.92		7.23
15	WLAN	Polarized Panel	ML-2452-SEC6M4-N30	4 N Male	5.5		6
16	WLAN	Polarized Panel	ML-2452-PNL9M3-N36	N Male	11	7.3	10.7

For 2.4GHz band:

- * Antenna 8 with the maximum gain was chosen for final test among Antenna 1~10.
- * Antenna 11, 12 were chosen for final test.
- * Antenna 13 with the maximum gain was chosen for final test among Antenna 13 & 15.
- * Antenna 16 with the maximum gain was chosen for final test among Antenna 14 & 16.

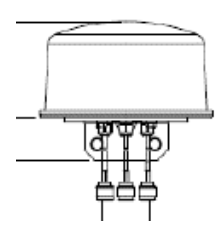
For 5GHz band:

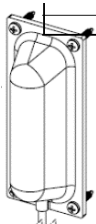
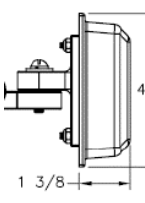
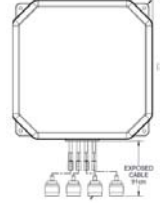
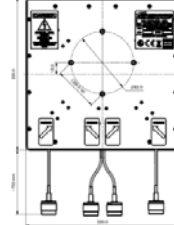
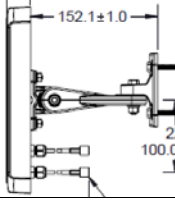
- * Antenna 10 with the maximum gain was chosen for final test among Antenna 1~10.
- * Antenna 11, 12 were chosen for final test.
- * Antenna 13 with the maximum gain was chosen for final test among Antenna 13 & 15.
- * Antenna 16 with the maximum gain was chosen for final test among Antenna 14 & 16.

For 4.9GHz band:

- * Antenna 10 with the maximum gain was chosen for final test among Antenna 1~10.
- * Antenna 11, 12 were chosen for final test.
- * Antenna 13 with the maximum gain was chosen for final test among Antenna 13 & 15.
- * Antenna 16 with the maximum gain was chosen for final test among Antenna 14 & 16.

5. The EUT will install at outdoor area, the highest antenna gain from the horizon above 30 degrees is as below, for more detail information please refer to antenna specification and user manual.

ML-2452-HPAG5A8-01		ML-2452-HPAG4A6-01	
Antenna gain (dBi)	Antenna install degree	Antenna gain (dBi)	Antenna install degree
-9.66		5.68	
the elevation gain from the pattern E90 (0 degree on top), should be 0-60 degree and 300-360 degree gain is -9.66 dBi		the elevation gain from the pattern E0 and E90 (0 degree on top), should be 0-60 degree and 300-360 degree gain is 5.68 dBi	
ML-2452-HPA6X6-036		WS-AO-DQ04360N	
Antenna gain (dBi)	Antenna install degree	Antenna gain (dBi)	Antenna install degree
-3.91		0.78	
the elevation gain from the pattern E0 and E90 (0 degree on top), should be 0-60 degree and 300-360 degree gain is -3.91 dBi		the elevation gain from the pattern 0EL and 90EL (0 degree on top), should be 0-60 degree and 300-360 degree gain is 0.78 dBi	
ML-2452-HPA6-01		ML-5299-HPA5-01	
Antenna gain (dBi)	Antenna install degree	Antenna gain (dBi)	Antenna install degree
4.09		-2.53	
the elevation gain from the pattern XZ and YZ (0 degree on top), should be 0-60 degree and 300-360 degree gain is 4.09 dBi		the elevation gain from the pattern XZ (0 degree on top), should be 0-60 degree and 300-360 degree gain is -2.53 dBi	

ML-5299-FHPA6-01R		ML-2452-PNA5-01R	
Antenna gain (dBi)	Antenna install degree	Antenna gain (dBi)	Antenna install degree
-5.39		5	
the elevation gain from the pattern E-Plane (0 degree on top), should be 0-60 degree and 300-360 degree gain is -5.39 dBi		the elevation gain are chosen max gain is 5 dBi	
ML-2452-PNA7-01R		ML-2452-PNL6M4-N36	
Antenna gain (dBi)	Antenna install degree	Antenna gain (dBi)	Antenna install degree
7.46		2.28	
the elevation gain from the pattern E-Plane (270 degree on top), should be 210~330 degree gain is 7.46 dBi		the elevation gain from the pattern E-Plane (270 degree on top), should be 210~330 degree gain is 2.28 dBi	
ML-2452-SEC6M4-N36		ML-2452-SEC6M4-N30	
Antenna gain (dBi)	Antenna install degree	Antenna gain (dBi)	Antenna install degree
5.18		0.8	
the elevation gain from the pattern PHI=90 (90 degree on top), should be 30~120 degree gain is 5.18dBi		the elevation gain from the pattern Elevation YZ (270 degree on top), should be 210~330 degree gain is 0.80 dBi	
ML-2452-PNL9M3-N36			
Antenna gain (dBi)	Antenna install degree		
7.34			
the elevation gain from the pattern E90 (0 degree on top), should be 210~330 degree gain is 7.34 dBi			

For horizon above 30 degrees:

- * Antenna 2 with the maximum gain was chosen for final test among Antenna 1~10.
- * Antenna 11, 12 were chosen for final test.
- * Antenna 13 with the maximum gain was chosen for final test among Antenna 13 & 15.
- * Antenna 16 with the maximum gain was chosen for final test among Antenna 14 & 16.

6. Indoor Access Point mode is the worst case for final radiated emission tests after pretesting Indoor Access Point mode and Outdoor Access Point mode.
7. 2.4GHz & 4.9GHz/5GHz & BT LE/Zigbee technologies can transmit at same time.
BT LE & Zigbee technologies cannot transmit at same time.
8. Spurious emission of the simultaneous operation (2.4GHz & 4.9GHz/5GHz & BT LE/Zigbee) has been evaluated and no non-compliance was found.
9. Output Power is listed as below.

For U-NII-1 Band (Outdoor Access Point)

ML-5299-FHPA6-01R			
Frequency Band (MHz)	Mode	Output Power (mW)	Output Power (dBm)
5180~5240	CDD Mode	33.538	15.26
	Beamforming Mode	16.770	12.25
ML-2452-PNA5-01R			
Frequency Band (MHz)	Mode	Output Power (mW)	Output Power (dBm)
5180~5240	CDD Mode	37.823	15.78
	Beamforming Mode	18.913	12.77
ML-2452-PNA7-01R			
Frequency Band (MHz)	Mode	Output Power (mW)	Output Power (dBm)
5180~5240	CDD Mode	22.478	13.52
	Beamforming Mode	11.240	10.51
ML-2452-PNL6M4-N36			
Frequency Band (MHz)	Mode	Output Power (mW)	Output Power (dBm)
5180~5240	CDD Mode	72.778	18.62
	Beamforming Mode	36.391	15.61
ML-2452-PNL9M3-N36			
Frequency Band (MHz)	Mode	Output Power (mW)	Output Power (dBm)
5180~5240	CDD Mode	22.478	13.52
	Beamforming Mode	11.240	10.51

For U-NII-1 Band (Indoor Access Point)

ML-5299-FHPA6-01R			
Frequency Band (MHz)	Mode	Output Power (mW)	Output Power (dBm)
5180~5240	CDD Mode	383.807	25.84
	Beamforming Mode	191.917	22.83
ML-2452-PNA5-01R			
Frequency Band (MHz)	Mode	Output Power (mW)	Output Power (dBm)
5180~5240	CDD Mode	410.361	26.13
	Beamforming Mode	200.234	23.02
ML-2452-PNA7-01R			
Frequency Band (MHz)	Mode	Output Power (mW)	Output Power (dBm)
5180~5240	CDD Mode	215.165	23.33
	Beamforming Mode	107.590	20.32
ML-2452-PNL6M4-N36			
Frequency Band (MHz)	Mode	Output Power (mW)	Output Power (dBm)
5180~5240	CDD Mode	410.361	26.13
	Beamforming Mode	200.234	23.02
ML-2452-PNL9M3-N36			
Frequency Band (MHz)	Mode	Output Power (mW)	Output Power (dBm)
5180~5240	CDD Mode	299.608	24.77
	Beamforming Mode	149.814	21.76

For U-NII-3 Band

ML-5299-FHPA6-01R			
Frequency Band (MHz)	Mode	Output Power (mW)	Output Power (dBm)
5745~5825	CDD Mode	424.208	26.28
	Beamforming Mode	209.453	23.21
ML-2452-PNA5-01R			
Frequency Band (MHz)	Mode	Output Power (mW)	Output Power (dBm)
5745~5825	CDD Mode	301.100	24.79
	Beamforming Mode	150.560	21.78
ML-2452-PNA7-01R			
Frequency Band (MHz)	Mode	Output Power (mW)	Output Power (dBm)
5745~5825	CDD Mode	331.869	25.21
	Beamforming Mode	165.946	22.20
ML-2452-PNL6M4-N36			
Frequency Band (MHz)	Mode	Output Power (mW)	Output Power (dBm)
5745~5825	CDD Mode	275.386	24.40
	Beamforming Mode	137.702	21.39
ML-2452-PNL9M3-N36			
Frequency Band (MHz)	Mode	Output Power (mW)	Output Power (dBm)
5745~5825	CDD Mode	328.889	25.17
	Beamforming Mode	164.456	22.16

10. Power Setting is listed as below.

For U-NII-1 Band (Outdoor Access Point) & U-NII-3 Band

ML-5299-FHPA6-01R							
& ML-2452-HPAG5A8-01, ML-2452-HPAG4A6-01, ML-2452-HPA6X6-036, WS-AO-DQ04360N, ML-2499-HPA4-01, ML-2452-HPA6-01, ML-5299-HPA5-01, ML-2499-HPA8-01, ML-2499-FHPA5-01R							
		802.11a	802.11n (HT20)		802.11n (HT40)		802.11ac (VHT80)
CDD Mode	CH 36	11.5	11.5	CH 38	11.5	CH 42	11.5
	CH 40	11.5	11.5	CH 46	11.5	CH 155	19
	CH 48	11.5	11.5	CH 151	22.5		
	CH 149	23	23	CH 159	23		
	CH 157	23	23				
	CH 165	23	23				
		802.11n (HT20)			802.11n (HT40)		802.11ac (VHT80)
Beamforming Mode	CH 36	11.5		CH 38	11.5	CH 42	11.5
	CH 40	11.5		CH 46	11.5	CH 155	19
	CH 48	11.5		CH 151	22.5		
	CH 149	23		CH 159	23		
	CH 157	23					
	CH 165	23					
ML-2452-PNA5-01R							
		802.11a	802.11n (HT20)		802.11n (HT40)		802.11ac (VHT80)
CDD Mode	CH 36	12	12	CH 38	12	CH 42	12
	CH 40	12	12	CH 46	12	CH 155	19
	CH 48	12	12	CH 151	21.5		
	CH 149	19.5	20	CH 159	21.5		
	CH 157	19.5	20				
	CH 165	21	21				
		802.11n (HT20)			802.11n (HT40)		802.11ac (VHT80)
Beamforming Mode	CH 36	12		CH 38	12	CH 42	12
	CH 40	12		CH 46	12	CH 155	19
	CH 48	12		CH 151	21.5		
	CH 149	20		CH 159	21.5		
	CH 157	20					
	CH 165	21					

ML-2452-PNA7-01R							
		802.11a	802.11n (HT20)		802.11n (HT40)		802.11ac (VHT80)
CDD Mode	CH 36	10	10	CH 38	10	CH 42	10
	CH 40	10	10	CH 46	10	CH 155	17.5
	CH 48	10	10	CH 151	22		
	CH 149	22.5	22.5	CH 159	22.5		
	CH 157	22.5	22.5				
	CH 165	22.5	22.5				
		802.11n (HT20)			802.11n (HT40)		802.11ac (VHT80)
Beamforming Mode	CH 36	10		CH 38	10	CH 42	10
	CH 40	10		CH 46	10	CH 155	17.5
	CH 48	10		CH 151	22		
	CH 149	22.5		CH 159	22.5		
	CH 157	22.5					
	CH 165	22.5					
ML-2452-PNL6M4-N36							
		802.11a	802.11n (HT20)		802.11n (HT40)		802.11ac (VHT80)
CDD Mode	CH 36	15	15	CH 38	15	CH 42	15
	CH 40	15	15	CH 46	15	CH 155	20
	CH 48	15	15	CH 151	20		
	CH 149	19	19.5	CH 159	21.5		
	CH 157	18.5	19				
	CH 165	19.5	20				
		802.11n (HT20)			802.11n (HT40)		802.11ac (VHT80)
Beamforming Mode	CH 36	15		CH 38	15	CH 42	15
	CH 40	15		CH 46	15	CH 155	20
	CH 48	15		CH 151	20		
	CH 149	19.5		CH 159	21.5		
	CH 157	19					
	CH 165	20					

ML-2452-PNL9M3-N36 & ML-2452-SEC6M4-N30, ML-2452-PNL9M3-N36							
		802.11a	802.11n (HT20)		802.11n (HT40)		802.11ac (VHT80)
CDD Mode	CH 36	10	10	CH 38	10	CH 42	10
	CH 40	10	10	CH 46	10	CH 155	19.5
	CH 48	10	10	CH 151	22		
	CH 149	21.5	22	CH 159	22.5		
	CH 157	21	22				
	CH 165	21	22				
		802.11n (HT20)			802.11n (HT40)		802.11ac (VHT80)
Beamforming Mode	CH 36	10		CH 38	10	CH 42	10
	CH 40	10		CH 46	10	CH 155	19.5
	CH 48	10		CH 151	22		
	CH 149	22		CH 159	22.5		
	CH 157	22					
	CH 165	22					

For U-NII-1 Band (Indoor Access Point)

ML-5299-FHPA6-01R & ML-2452-HPAG5A8-01, ML-2452-HPAG4A6-01, ML-2452-HPA6X6-036, WS-AO-DQ04360N, ML-2499-HPA4-01, ML-2452-HPA6-01, ML-5299-HPA5-01, ML-2499-HPA8-01, ML-2499-FHPA5-01R							
		802.11a	802.11n (HT20)		802.11n (HT40)		802.11ac (VHT80)
CDD Mode	CH 36	18	17	CH 38	15	CH 42	14.5
	CH 40	22	22.5	CH 46	21.5		
	CH 48	22	22.5				
		802.11n (HT20)			802.11n (HT40)		802.11ac (VHT80)
Beamforming Mode	CH 36	17		CH 38	15	CH 42	14.5
	CH 40	22.5		CH 46	21.5		
	CH 48	22.5					
ML-2452-PNA5-01R							
		802.11a	802.11n (HT20)		802.11n (HT40)		802.11ac (VHT80)
CDD Mode	CH 36	18	17.5	CH 38	15	CH 42	14.5
	CH 40	23	22.5	CH 46	21.5		
	CH 48	23	23				
		802.11n (HT20)			802.11n (HT40)		802.11ac (VHT80)
Beamforming Mode	CH 36	17.5		CH 38	15	CH 42	14.5
	CH 40	22.5		CH 46	21.5		
	CH 48	23					

ML-2452-PNA7-01R							
		802.11a	802.11n (HT20)		802.11n (HT40)		802.11ac (VHT80)
CDD Mode	CH 36	17	16.5	CH 38	13.5	CH 42	13
	CH 40	18	18.5	CH 46	20		
	CH 48	18	18.5				
		802.11n (HT20)			802.11n (HT40)		802.11ac (VHT80)
Beamforming Mode	CH 36	16.5		CH 38	13.5	CH 42	13
	CH 40	18.5		CH 46	20		
	CH 48	18.5					
ML-2452-PNL6M4-N36							
		802.11a	802.11n (HT20)		802.11n (HT40)		802.11ac (VHT80)
CDD Mode	CH 36	18.5	18.5	CH 38	16	CH 42	16.5
	CH 40	22.5	23	CH 46	22		
	CH 48	23	23				
		802.11n (HT20)			802.11n (HT40)		802.11ac (VHT80)
Beamforming Mode	CH 36	18.5		CH 38	16	CH 42	16.5
	CH 40	23		CH 46	22		
	CH 48	23					
ML-2452-PNL9M3-N36 & ML-2452-SEC6M4-N30, ML-2452-PNL9M3-N36							
		802.11a	802.11n (HT20)		802.11n (HT40)		802.11ac (VHT80)
CDD Mode	CH 36	18	18	CH 38	15.5	CH 42	15.5
	CH 40	18	18.5	CH 46	21.5		
	CH 48	18	18.5				
		802.11n (HT20)			802.11n (HT40)		802.11ac (VHT80)
Beamforming Mode	CH 36	18		CH 38	15.5	CH 42	15.5
	CH 40	18.5		CH 46	21.5		
	CH 48	18.5					

3.2 Description of Test Modes

5180~5240MHz:

4 channels are provided for 802.11a, 802.11n (HT20), 802.11ac (VHT20):

Channel	Frequency	Channel	Frequency
36	5180 MHz	44	5220 MHz
40	5200 MHz	48	5240 MHz

2 channels are provided for 802.11n (HT40), 802.11ac (VHT40):

Channel	Frequency	Channel	Frequency
38	5190 MHz	46	5230 MHz

1 channel is provided for 802.11ac (VHT80):

Channel	Frequency
42	5210MHz

5745~5825MHz:

5 channels are provided for 802.11a, 802.11n (HT20), 802.11ac (VHT20):

Channel	Frequency	Channel	Frequency
149	5745MHz	161	5805MHz
153	5765MHz	165	5825MHz
157	5785MHz		

2 channels are provided for 802.11n (HT40), 802.11ac (VHT40):

Channel	Frequency	Channel	Frequency
151	5755MHz	159	5795MHz

1 channel is provided for 802.11ac (VHT80):

Channel	Frequency
155	5775MHz

3.2.1 Test Mode Applicability and Tested Channel Detail

EUT Configure Mode	Applicable to				Description
	RE $\geq$ 1G	RE<1G	PLC	APCM	
A	√	√	√	√	ML-5299-FHPA6-01R (ML-2452-HPAG4A6-01 for horizon above 30 degrees only)
B	√	√	√	√	ML-2452-PNA5-01R
C	√	√	√	√	ML-2452-PNA7-01R
D	√	√	√	√	ML-2452-PNL6M4-N36
E	√	√	√	√	ML-2452-PNL9M3-N36

Where RE $\geq$ 1G: Radiated Emission above 1GHz & Bandedge Measurement

RE<1G: Radiated Emission below 1GHz

PLC: Power Line Conducted Emission

APCM: Antenna Port Conducted Measurement

Note:

- The EUT had been pre-tested on the positioned of each 3 axis. The worst case was found when positioned on Y-plane for mode A (RE $\geq$ 1G), C and Z-plane for mode A (RE<1G), B, D, E.

Radiated Emission Test (Above 1GHz):

- ☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
- ☒ Following channel(s) was (were) selected for the final test as listed below.

EUT Configure Mode	Mode	Frequency Band (MHz)	Available Channel	Tested Channel	Modulation Technology	Data Rate (Mbps)	Remark
A, B, C, D, E	802.11a	5180-5240	36 to 48	36, 40, 48	OFDM	6.0	-
	802.11n (HT20)		36 to 48	36, 40, 48	OFDM	6.5	-
	802.11n (HT40)		38 to 46	38, 46	OFDM	13.5	-
	802.11ac (VHT80)		42	42	OFDM	29.3	-
	802.11a	5745-5825	149 to 165	149, 157, 165	OFDM	6.0	-
	802.11n (HT20)		144 to 165	149, 157, 165	OFDM	6.5	-
	802.11n (HT40)		142 to 159	151, 159	OFDM	13.5	-
	802.11ac (VHT80)		138 to 155	155	OFDM	29.3	-

Radiated Emission Test (Below 1GHz):

- ☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
- ☒ Following channel(s) was (were) selected for the final test as listed below.

EUT Configure Mode	Mode	Frequency Band (MHz)	Available Channel	Tested Channel	Modulation Technology	Data Rate (Mbps)	Remark
A, B	802.11a	5180-5240	36 to 48	165	OFDM	6.0	-
	802.11a	5745-5825	149 to 165		OFDM	6.0	-
C, D, E	802.11a	5180-5240	36 to 48	149	OFDM	6.0	-
	802.11a	5745-5825	149 to 165		OFDM	6.0	-

Power Line Conducted Emission Test:

- ☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
- ☒ Following channel(s) was (were) selected for the final test as listed below.

EUT Configure Mode	Mode	Frequency Band (MHz)	Available Channel	Tested Channel	Modulation Technology	Data Rate (Mbps)	Remark
A, B	802.11a	5180-5240	36 to 48	165	OFDM	6.0	-
	802.11a	5745-5825	149 to 165		OFDM	6.0	-
C, D, E	802.11a	5180-5240	36 to 48	149	OFDM	6.0	-
	802.11a	5745-5825	149 to 165		OFDM	6.0	-

Antenna Port Conducted Measurement:

- ☒ This item includes all test value of each mode, but only includes spectrum plot of worst value of each mode.
- ☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
- ☒ Following channel(s) was (were) selected for the final test as listed below.

EUT Configure Mode	Mode	Frequency Band (MHz)	Available Channel	Tested Channel	Modulation Technology	Data Rate (Mbps)	Remark
A, B, C, D, E	802.11a	5180-5240	36 to 48	36, 40, 48	OFDM	6.0	-
	802.11n (HT20)		36 to 48	36, 40, 48	OFDM	6.5	-
	802.11n (HT40)		38 to 46	38, 46	OFDM	13.5	-
	802.11ac (VHT80)		42	42	OFDM	29.3	-
	802.11a	5745-5825	149 to 165	149, 157, 165	OFDM	6.0	-
	802.11n (HT20)		144 to 165	149, 157, 165	OFDM	6.5	-
	802.11n (HT40)		142 to 159	151, 159	OFDM	13.5	-
	802.11ac (VHT80)		138 to 155	155	OFDM	29.3	-

Test Condition:

Applicable to	Environmental Conditions	Input Power (system)	Tested by
RE $\geq$ 1G	23 deg. C, 69% RH 23 deg. C, 68% RH 24 deg. C, 68% RH 22 deg. C, 64% RH	120Vac, 60Hz	Willy Cheng Jones Chang
RE<1G	22 deg. C, 64% RH 23 deg. C, 68% RH 23 deg. C, 69% RH	120Vac, 60Hz	Willy Cheng
PLC	25 deg. C, 68% RH	120Vac, 60Hz	Jones Chang
APCM	25 deg. C, 60% RH	120Vac, 60Hz	Han Wu Leo Tsai

3.3 Duty Cycle of Test Signal

Duty cycle of test signal is $\geq 98\%$, duty factor is not required.

Duty cycle of test signal is $< 98\%$, duty factor is required.

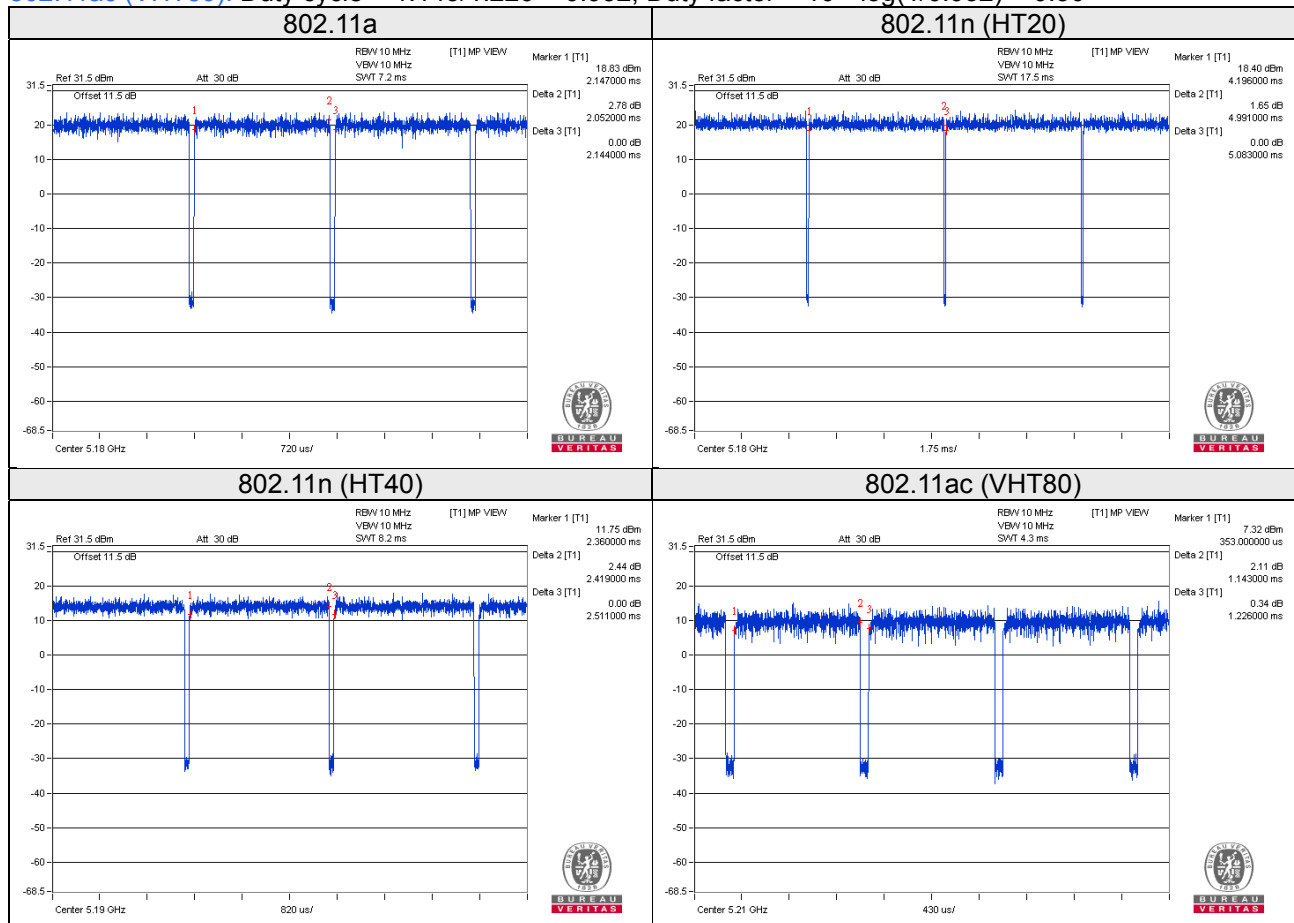
Outdoor Access Point

802.11a: Duty cycle = $2.052/2.144 = 0.957$, Duty factor = $10 * \log(1/0.957) = 0.19$

802.11n (HT20): Duty cycle = $4.991/5.083 = 0.982$

802.11n (HT40): Duty cycle = $2.419/2.511 = 0.963$, Duty factor = $10 * \log(1/0.963) = 0.16$

802.11ac (VHT80): Duty cycle = $1.143/1.226 = 0.932$, Duty factor = $10 * \log(1/0.932) = 0.30$



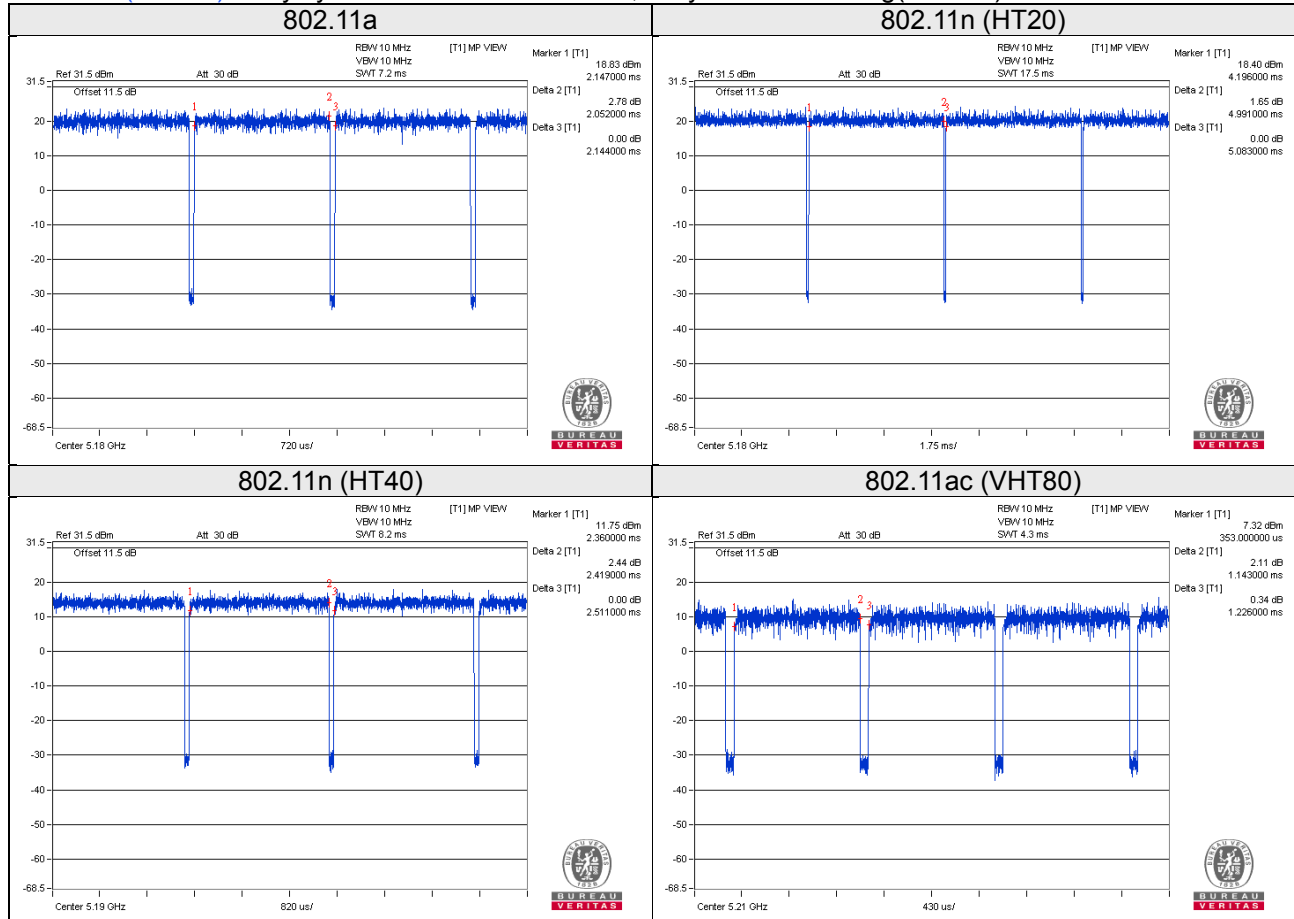
Indoor Access Point

802.11a: Duty cycle = $2.052/2.144 = 0.957$, Duty factor = $10 * \log(1/0.957) = 0.19$

802.11n (HT20): Duty cycle = $4.991/5.083 = 0.982$

802.11n (HT40): Duty cycle = $2.419/2.511 = 0.963$, Duty factor = $10 * \log(1/0.963) = 0.16$

802.11ac (VHT80): Duty cycle = $1.143/1.226 = 0.932$, Duty factor = $10 * \log(1/0.932) = 0.30$



3.4 Description of Support Units

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

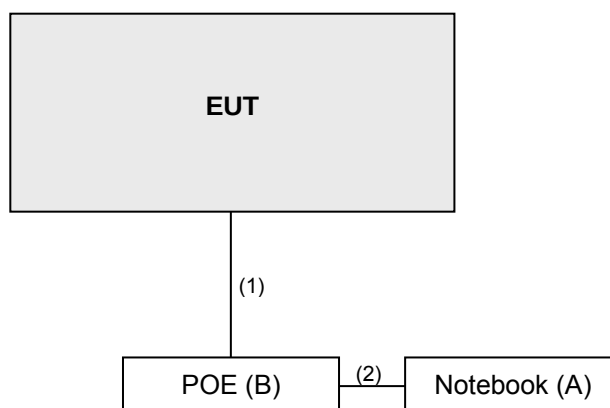
ID	Product	Brand	Model No.	Serial No.	FCC ID	Remarks
A.	Notebook	DELL	E5420	BPQ7MQ1	FCC DoC Approved	-
B.	POE	EnGenius	EPA5006GP	NA	NA	Supplied by the manufacturer

Note:

1. All power cords of the above support units are non-shielded (1.8m).
2. Item A acted as a communication partner to transfer data.

ID	Descriptions	Qty.	Length (m)	Shielding (Yes/No)	Cores (Qty.)	Remarks
1.	RJ45, Cat5e	1	10	N	0	-
2.	RJ45, Cat5e	1	1.5	N	0	-

3.4.1 Configuration of System under Test



3.5 General Description of Applied Standards

The EUT is a RF Product. According to the specifications of the manufacturer, it must comply with the requirements of the following standards:

FCC Part 15, Subpart E (15.407)

KDB 789033 D02 General UNII Test Procedure New Rules v01r04

KDB 662911 D01 Multiple Transmitter Output v02r01

ANSI C63.10:2013

All test items have been performed and recorded as per the above standards.

Note: The EUT has been verified to comply with the requirements of FCC Part 15, Subpart B, Class B (DoC). The test report has been issued separately.

4 Test Types and Results

4.1 Radiated Emission and Bandedge Measurement

4.1.1 Limits of Radiated Emission and Bandedge Measurement

Radiated emissions which fall in the restricted bands must comply with the radiated emission limits specified as below table.

Frequencies (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
30 ~ 88	100	3
88 ~ 216	150	3
216 ~ 960	200	3
Above 960	500	3

NOTE:

1. The lower limit shall apply at the transition frequencies.
2. Emission level (dBuV/m) = 20 log Emission level (uV/m).
3. For frequencies above 1000MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20dB under any condition of modulation.

Limits of unwanted emission out of the restricted bands

Applicable To			Limit	
789033 D02 General UNII Test Procedure New Rules v01r04			Field Strength at 3m	
			PK: 74 (dBµV/m)	AV: 54 (dBµV/m)
Frequency Band	Applicable To		EIRP Limit	Equivalent Field Strength at 3m
5150~5250 MHz	15.407(b)(1)		PK: -27 (dBm/MHz)	PK: 68.2(dBµV/m)
5250~5350 MHz	15.407(b)(2)			
5470~5725 MHz	15.407(b)(3)			
5725~5850 MHz	☒	15.407(b)(4)(i)	PK: -27 (dBm/MHz) ^{*1} PK: 10 (dBm/MHz) ^{*2} PK: 15.6 (dBm/MHz) ^{*3} PK: 27 (dBm/MHz) ^{*4}	PK: 68.2(dBµV/m) ^{*1} PK: 105.2 (dBµV/m) ^{*2} PK: 110.8(dBµV/m) ^{*3} PK: 122.2 (dBµV/m) ^{*4}
	☐	15.407(b)(4)(ii)	Emission limits in section 15.247(d)	
^{*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.	

Note: The following formula is used to convert the equipment isotropic radiated power (eirp) to field strength:

$$E = \frac{1000000 \sqrt{30 P}}{3} \text{ } \mu\text{V/m, where P is the eirp (Watts).}$$

4.1.2 Test Instruments

Description & Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Due
Test Receiver ROHDE & SCHWARZ	ESIB7	100187	May 02, 2017	May 01, 2018
Spectrum Analyzer ROHDE & SCHWARZ	FSP40	100041	Nov. 16, 2016	Nov. 15, 2017
BILOG Antenna SCHWARZBECK	VULB9168	9168-171	Dec. 28, 2016	Dec. 27, 2017
HORN Antenna SCHWARZBECK	9120D	209	Dec. 27, 2016	Dec. 26, 2017
HORN Antenna SCHWARZBECK	BBHA 9170	BBHA9170241	Dec. 14, 2016	Dec. 13, 2017
Loop Antenna	EM-6879	269	Aug. 11, 2017	Aug. 10, 2018
Preamplifier Agilent	8447D	2944A10738	Aug. 22, 2016 Aug. 21, 2017	Aug. 21, 2017 Aug. 20, 2018
Preamplifier Agilent	8449B	3008A02465	Apr. 05, 2017	Apr. 04, 2018
RF signal cable HUBER+SUHNER	SUCOFLEX 104	Cable-CH3-03 (223653/4)	Aug. 22, 2016 Aug. 21, 2017	Aug. 21, 2017 Aug. 20, 2018
RF signal cable HUBER+SUHNER& EMCI	SUCOFLEX 106	Cable-CH3-03 (309224+12738)	Aug. 22, 2016 Aug. 21, 2017	Aug. 21, 2017 Aug. 20, 2018
Software BV ADT	ADT_Radiated_ V7.6.15.9.4	NA	NA	NA
Antenna Tower inn-co GmbH	MA 4000	013303	NA	NA
Antenna Tower Controller BV ADT	AT100	AT93021702	NA	NA
Turn Table BV ADT	TT100	TT93021702	NA	NA
Turn Table Controller BV ADT	SC100	SC93021702	NA	NA
High Speed Peak Power Meter	ML2495A	1145013	Mar. 07, 2017	Mar. 06, 2018
Power Sensor	MA2411B	1126085	Mar. 07, 2017	Mar. 06, 2018
WIT Standard Temperature And Humidity Chamber	TH-4S-C	W981030	Jun. 08, 2017	Jun. 07, 2018
26GHz ~ 40GHz Amplifier Agilent	8449B	3008A1960	Aug. 08, 2017	Aug. 07, 2018

- Note:
1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
 2. The test was performed in HwaYa Chamber 3.
 3. The horn antenna and preamplifier (model: 8449B) are used only for the measurement of emission frequency above 1GHz if tested.
 4. The FCC Designation Number is TW0003. The number will be varied with the Lab location and scope as attached.
 5. The IC Site Registration No. is IC 7450F-3.

4.1.3 Test Procedures

For Radiated emission below 30MHz

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter chamber room. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. Both X and Y axes of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Quasi-Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

Note:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 9kHz at frequency below 30MHz.

For Radiated emission above 30MHz

- a. The EUT was placed on the top of a rotating table 0.8 meters (for 30MHz ~ 1GHz) / 1.5 meters (for above 1GHz) above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1 GHz.
- f. The test-receiver system was set to peak and average detect function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz. If the peak reading value also meets average limit, measurement with the average detector is unnecessary.

Note:

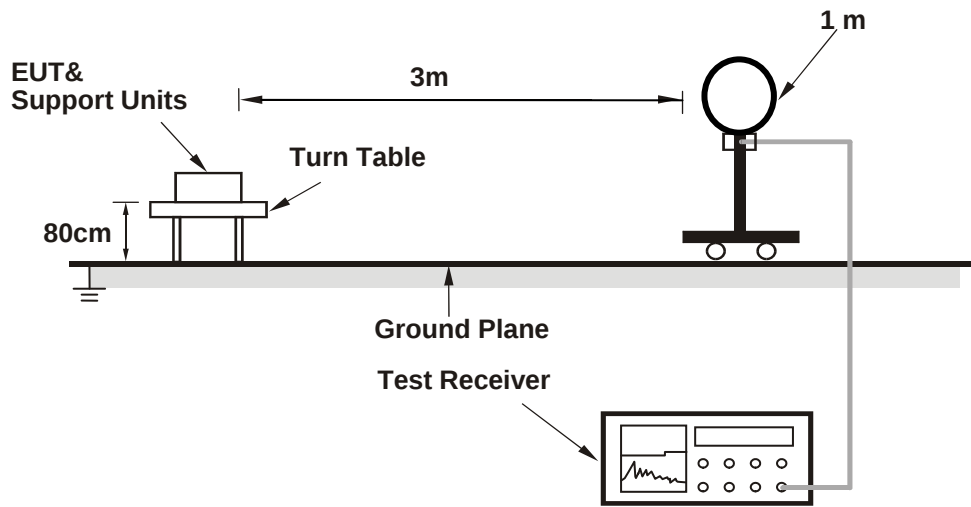
1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection (QP) at frequency below 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) at frequency above 1GHz.
3. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is $\geq 1/T$ (Duty cycle < 98%) or 10Hz (Duty cycle $\geq 98\%$) for Average detection (AV) at frequency above 1GHz.
4. All modes of operation were investigated and the worst-case emissions are reported.

4.1.4 Deviation from Test Standard

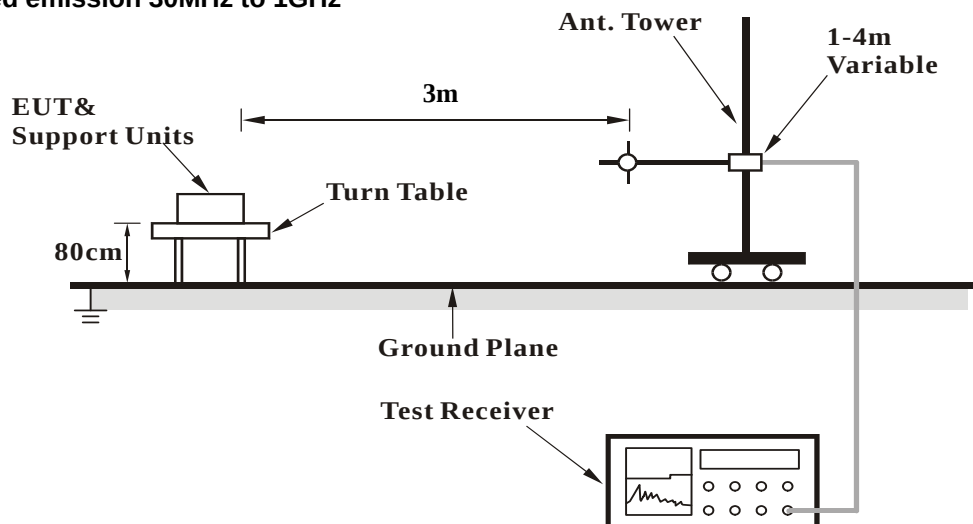
No deviation.

4.1.5 Test Setup

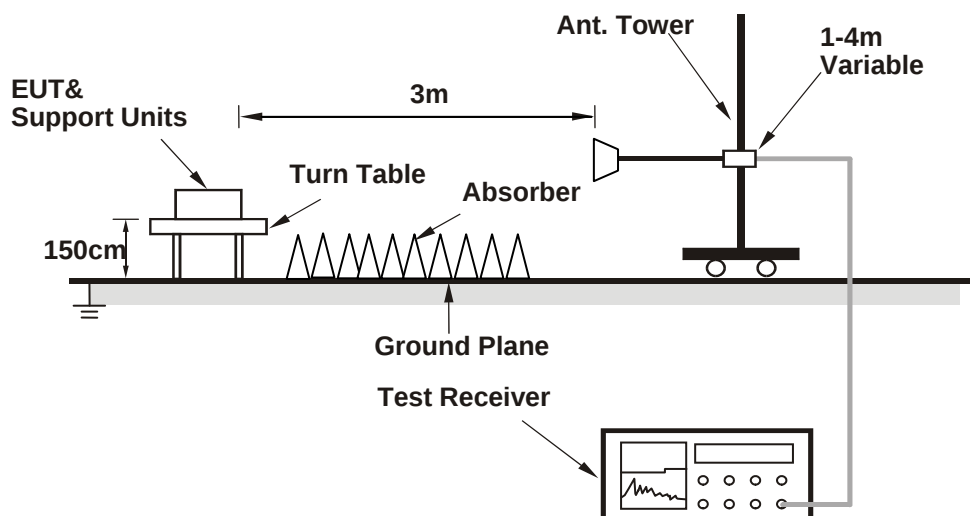
For Radiated emission below 30MHz



For Radiated emission 30MHz to 1GHz



For Radiated emission above 1GHz



For the actual test configuration, please refer to the attached file (Test Setup Photo).

4.1.6 EUT Operating Conditions

- Placed the EUT on the testing table.
- Prepared a notebook to act as a communication partner and placed it outside of testing area.
- The communication partner connected with EUT via a RJ45 cable and ran a test program (provided by manufacturer) to enable EUT under transmission condition continuously at specific channel frequency.
- The communication partner sent data to EUT by command "PING".

4.1.7 Test Results

Above 1GHz data:

Mode A

802.11a

CHANNEL	TX Channel 36	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	56.9 PK	74.0	-17.1	1.64 H	159	55.2	1.7
2	5150.00	43.8 AV	54.0	-10.2	1.64 H	159	42.1	1.7
3	*5180.00	104.1 PK			1.47 H	149	64.6	39.5
4	*5180.00	93.7 AV			1.47 H	149	54.2	39.5
5	#10360.00	59.0 PK	74.0	-15.0	1.77 H	209	46.1	12.9
6	#10360.00	45.9 AV	54.0	-8.1	1.77 H	209	33.0	12.9
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	67.0 PK	74.0	-7.0	1.46 V	316	65.3	1.7
2	5150.00	52.3 AV	54.0	-1.7	1.46 V	316	50.6	1.7
3	*5180.00	121.0 PK			1.56 V	179	81.5	39.5
4	*5180.00	110.8 AV			1.56 V	179	71.3	39.5
5	#10360.00	59.6 PK	74.0	-14.4	1.58 V	201	46.7	12.9
6	#10360.00	46.2 AV	54.0	-7.8	1.58 V	201	33.3	12.9

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 40	DETECTOR	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz	FUNCTION	Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5200.00	109.3 PK			1.61 H	355	69.8	39.5
2	*5200.00	98.5 AV			1.61 H	355	59.0	39.5
3	#10400.00	59.0 PK	74.0	-15.0	1.79 H	234	46.1	12.9
4	#10400.00	45.9 AV	54.0	-8.1	1.79 H	234	33.0	12.9
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5200.00	125.0 PK			1.54 V	219	85.5	39.5
2	*5200.00	114.5 AV			1.54 V	219	75.0	39.5
3	#10400.00	59.7 PK	74.0	-14.3	1.66 V	257	46.8	12.9
4	#10400.00	45.9 AV	54.0	-8.1	1.66 V	257	33.0	12.9

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 48	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5240.00	109.1 PK			1.57 H	148	69.5	39.6
2	*5240.00	98.4 AV			1.57 H	148	58.8	39.6
3	5350.00	58.1 PK	74.0	-15.9	1.72 H	183	56.2	1.9
4	5350.00	44.4 AV	54.0	-9.6	1.72 H	183	42.5	1.9
5	#10480.00	59.6 PK	74.0	-14.4	1.43 H	199	45.8	13.8
6	#10480.00	46.6 AV	54.0	-7.4	1.43 H	199	32.8	13.8
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5240.00	125.4 PK			1.57 V	220	85.8	39.6
2	*5240.00	115.1 AV			1.57 V	220	75.5	39.6
3	5350.00	59.4 PK	74.0	-14.6	1.77 V	201	57.5	1.9
4	5350.00	46.3 AV	54.0	-7.7	1.77 V	201	44.4	1.9
5	#10480.00	59.4 PK	74.0	-14.6	1.63 V	229	45.6	13.8
6	#10480.00	46.6 AV	54.0	-7.4	1.63 V	229	32.8	13.8

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 149	DETECTOR	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz	FUNCTION	Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5646.40	56.5 PK	68.2	-11.7	2.30 H	171	54.2	2.3
2	*5745.00	124.8 PK			2.30 H	171	84.9	39.9
3	*5745.00	114.2 AV			2.30 H	171	74.3	39.9
4	#5932.80	56.6 PK	68.2	-11.6	2.30 H	171	53.7	2.9
5	11490.00	62.9 PK	74.0	-11.1	1.75 H	339	48.4	14.5
6	11490.00	48.9 AV	54.0	-5.1	1.75 H	339	34.4	14.5
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5604.80	54.6 PK	68.2	-13.6	2.75 V	311	52.3	2.3
2	*5745.00	114.1 PK			2.75 V	311	74.2	39.9
3	*5745.00	104.2 AV			2.75 V	311	64.3	39.9
4	#5966.40	56.0 PK	68.2	-12.2	2.75 V	311	52.9	3.1
5	11490.00	63.1 PK	74.0	-10.9	3.29 V	154	48.6	14.5
6	11490.00	49.7 AV	54.0	-4.3	3.29 V	154	35.2	14.5

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 157	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5621.60	55.3 PK	68.2	-12.9	1.06 H	345	53.0	2.3
2	*5785.00	124.7 PK			1.06 H	345	84.6	40.1
3	*5785.00	114.4 AV			1.06 H	345	74.3	40.1
4	#5934.40	56.1 PK	68.2	-12.1	1.06 H	345	53.2	2.9
5	11570.00	59.7 PK	74.0	-14.3	2.26 H	20	45.4	14.3
6	11570.00	47.2 AV	54.0	-6.8	2.26 H	20	32.9	14.3
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5644.80	54.2 PK	68.2	-14.0	3.51 V	221	51.9	2.3
2	*5785.00	118.4 PK			3.51 V	221	78.3	40.1
3	*5785.00	107.1 AV			3.51 V	221	67.0	40.1
4	#5968.00	55.5 PK	68.2	-12.7	3.51 V	221	52.4	3.1
5	11570.00	63.8 PK	74.0	-10.2	3.14 V	14	49.5	14.3
6	11570.00	51.0 AV	54.0	-3.0	3.14 V	14	36.7	14.3

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 165	DETECTOR	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz	FUNCTION	Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5631.20	55.8 PK	68.2	-12.4	1.00 H	173	53.5	2.3
2	*5825.00	126.1 PK			1.00 H	173	85.9	40.2
3	*5825.00	115.4 AV			1.00 H	173	75.2	40.2
4	#5966.40	57.2 PK	68.2	-11.0	1.00 H	173	54.1	3.1
5	11650.00	61.6 PK	74.0	-12.4	1.09 H	271	47.2	14.4
6	11650.00	48.7 AV	54.0	-5.3	1.09 H	271	34.3	14.4
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5614.40	54.8 PK	68.2	-13.4	2.81 V	309	52.5	2.3
2	*5825.00	116.7 PK			2.81 V	309	76.5	40.2
3	*5825.00	106.2 AV			2.81 V	309	66.0	40.2
4	#5955.20	56.0 PK	68.2	-12.2	2.81 V	309	53.0	3.0
5	11650.00	62.1 PK	74.0	-11.9	1.54 V	356	47.7	14.4
6	11650.00	48.2 AV	54.0	-5.8	1.54 V	356	33.8	14.4

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

802.11n (HT20)

CHANNEL	TX Channel 36	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	55.3 PK	74.0	-18.7	1.98 H	0	53.6	1.7
2	5150.00	44.0 AV	54.0	-10.0	1.98 H	0	42.3	1.7
3	*5180.00	105.4 PK			2.78 H	297	65.9	39.5
4	*5180.00	94.3 AV			2.78 H	297	54.8	39.5
5	#10360.00	57.7 PK	74.0	-16.3	1.98 H	336	44.8	12.9
6	#10360.00	44.8 AV	54.0	-9.2	1.98 H	336	31.9	12.9
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	67.8 PK	74.0	-6.2	1.59 V	223	66.1	1.7
2	5150.00	52.7 AV	54.0	-1.3	1.59 V	223	51.0	1.7
3	*5180.00	120.4 PK			1.58 V	178	80.9	39.5
4	*5180.00	110.3 AV			1.58 V	178	70.8	39.5
5	#10360.00	59.2 PK	74.0	-14.8	1.83 V	333	46.3	12.9
6	#10360.00	46.2 AV	54.0	-7.8	1.83 V	333	33.3	12.9

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 40	DETECTOR	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz	FUNCTION	Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	56.2 PK	74.0	-17.8	2.38 H	172	54.5	1.7
2	5150.00	45.6 AV	54.0	-8.4	2.38 H	172	43.9	1.7
3	*5200.00	110.4 PK			2.78 H	301	70.9	39.5
4	*5200.00	99.5 AV			2.78 H	301	60.0	39.5
5	#10400.00	57.9 PK	74.0	-16.1	2.30 H	40	45.0	12.9
6	#10400.00	45.4 AV	54.0	-8.6	2.30 H	40	32.5	12.9
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	69.5 PK	74.0	-4.5	1.71 V	181	67.8	1.7
2	5150.00	52.4 AV	54.0	-1.6	1.71 V	181	50.7	1.7
3	*5200.00	124.9 PK			1.50 V	217	85.4	39.5
4	*5200.00	114.6 AV			1.50 V	217	75.1	39.5
5	#10400.00	60.4 PK	74.0	-13.6	1.98 V	201	47.5	12.9
6	#10400.00	47.2 AV	54.0	-6.8	1.98 V	201	34.3	12.9

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 48	DETECTOR	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz	FUNCTION	Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5240.00	112.2 PK			2.97 H	288	72.6	39.6
2	*5240.00	101.0 AV			2.97 H	288	61.4	39.6
3	5350.00	53.7 PK	74.0	-20.3	2.50 H	333	51.8	1.9
4	5350.00	42.5 AV	54.0	-11.5	2.50 H	333	40.6	1.9
5	5425.00	54.5 PK	74.0	-19.5	2.55 H	335	52.5	2.0
6	5425.00	43.8 AV	54.0	-10.2	2.55 H	335	41.8	2.0
7	#10480.00	57.7 PK	74.0	-16.3	2.11 H	29	43.9	13.8
8	#10480.00	44.6 AV	54.0	-9.4	2.11 H	29	30.8	13.8
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5240.00	125.4 PK			1.66 V	155	85.8	39.6
2	*5240.00	115.2 AV			1.66 V	155	75.6	39.6
3	5350.00	57.2 PK	74.0	-16.8	1.65 V	50	55.3	1.9
4	5350.00	46.3 AV	54.0	-7.7	1.65 V	50	44.4	1.9
5	5424.00	60.1 PK	74.0	-13.9	1.68 V	45	58.1	2.0
6	5424.00	49.7 AV	54.0	-4.3	1.68 V	45	47.7	2.0
7	#10480.00	60.9 PK	74.0	-13.1	1.89 V	110	47.1	13.8
8	#10480.00	48.4 AV	54.0	-5.6	1.89 V	110	34.6	13.8

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 149	DETECTOR	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz	FUNCTION	Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5608.00	55.4 PK	68.2	-12.8	1.12 H	342	53.1	2.3
2	*5745.00	124.2 PK			1.12 H	342	84.3	39.9
3	*5745.00	113.2 AV			1.12 H	342	73.3	39.9
4	#5957.60	57.2 PK	68.2	-11.0	1.12 H	342	54.2	3.0
5	11490.00	63.7 PK	74.0	-10.3	1.01 H	13	49.2	14.5
6	11490.00	50.7 AV	54.0	-3.3	1.01 H	13	36.2	14.5
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5600.80	55.0 PK	68.2	-13.2	3.34 V	219	52.8	2.2
2	*5745.00	114.9 PK			3.34 V	219	75.0	39.9
3	*5745.00	104.6 AV			3.34 V	219	64.7	39.9
4	#5975.20	56.3 PK	68.2	-11.9	3.34 V	219	53.1	3.2
5	11490.00	64.0 PK	74.0	-10.0	3.31 V	13	49.5	14.5
6	11490.00	50.5 AV	54.0	-3.5	3.31 V	13	36.0	14.5

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 157	DETECTOR	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz	FUNCTION	Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5636.80	55.8 PK	68.2	-12.4	2.18 H	169	53.5	2.3
2	*5785.00	125.6 PK			2.18 H	169	85.5	40.1
3	*5785.00	114.9 AV			2.18 H	169	74.8	40.1
4	#5984.00	56.7 PK	68.2	-11.5	2.18 H	169	53.5	3.2
5	11570.00	59.7 PK	74.0	-14.3	2.30 H	50	45.4	14.3
6	11570.00	46.6 AV	54.0	-7.4	2.30 H	50	32.3	14.3
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5618.40	54.4 PK	68.2	-13.8	3.34 V	219	52.1	2.3
2	*5785.00	117.2 PK			3.34 V	219	77.1	40.1
3	*5785.00	106.7 AV			3.34 V	219	66.6	40.1
4	#5980.00	56.1 PK	68.2	-12.1	3.34 V	219	52.9	3.2
5	11570.00	63.7 PK	74.0	-10.3	3.26 V	20	49.4	14.3
6	11570.00	50.4 AV	54.0	-3.6	3.26 V	20	36.1	14.3

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 165	DETECTOR	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz	FUNCTION	Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5628.80	54.5 PK	68.2	-13.7	2.89 H	342	52.2	2.3
2	*5825.00	125.9 PK			2.89 H	342	85.7	40.2
3	*5825.00	115.2 AV			2.89 H	342	75.0	40.2
4	#5926.40	56.4 PK	68.2	-11.8	2.89 H	342	53.5	2.9
5	11650.00	60.4 PK	74.0	-13.6	1.80 H	25	46.0	14.4
6	11650.00	47.9 AV	54.0	-6.1	1.80 H	25	33.5	14.4
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5624.80	54.1 PK	68.2	-14.1	3.35 V	217	51.8	2.3
2	*5825.00	117.8 PK			3.35 V	217	77.6	40.2
3	*5825.00	107.0 AV			3.35 V	217	66.8	40.2
4	#5970.40	55.8 PK	68.2	-12.4	3.35 V	217	52.7	3.1
5	11650.00	62.4 PK	74.0	-11.6	3.30 V	16	48.0	14.4
6	11650.00	49.0 AV	54.0	-5.0	3.30 V	16	34.6	14.4

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

802.11n (HT40)

CHANNEL	TX Channel 38	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	57.8 PK	74.0	-16.2	2.78 H	298	56.1	1.7
2	5150.00	45.8 AV	54.0	-8.2	2.78 H	298	44.1	1.7
3	*5190.00	99.3 PK			2.85 H	299	59.8	39.5
4	*5190.00	89.9 AV			2.85 H	299	50.4	39.5
5	#10380.00	57.2 PK	74.0	-16.8	1.55 H	277	44.2	13.0
6	#10380.00	44.3 AV	54.0	-9.7	1.55 H	277	31.3	13.0
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	65.2 PK	74.0	-8.8	1.66 V	318	63.5	1.7
2	5150.00	52.5 AV	54.0	-1.5	1.66 V	318	50.8	1.7
3	*5190.00	114.4 PK			1.60 V	216	74.9	39.5
4	*5190.00	105.0 AV			1.60 V	216	65.5	39.5
5	#10380.00	58.4 PK	74.0	-15.6	1.88 V	345	45.4	13.0
6	#10380.00	45.5 AV	54.0	-8.5	1.88 V	345	32.5	13.0

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 46	DETECTOR	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz	FUNCTION	Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	56.4 PK	74.0	-17.6	1.99 H	236	54.7	1.7
2	5150.00	45.6 AV	54.0	-8.4	1.99 H	236	43.9	1.7
3	*5230.00	105.5 PK			2.79 H	353	65.9	39.6
4	*5230.00	96.0 AV			2.79 H	353	56.4	39.6
5	5350.00	54.1 PK	74.0	-19.9	2.70 H	350	52.2	1.9
6	5350.00	43.4 AV	54.0	-10.6	2.70 H	350	41.5	1.9
7	5424.00	56.5 PK	74.0	-17.5	2.55 H	296	54.5	2.0
8	5424.00	45.6 AV	54.0	-8.4	2.55 H	296	43.6	2.0
9	#10460.00	58.8 PK	74.0	-15.2	1.78 H	55	45.2	13.6
10	#10460.00	45.6 AV	54.0	-8.4	1.78 H	55	32.0	13.6
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	66.8 PK	74.0	-7.2	1.61 V	319	65.1	1.7
2	5150.00	52.8 AV	54.0	-1.2	1.61 V	319	51.1	1.7
3	*5230.00	120.8 PK			1.59 V	218	81.2	39.6
4	*5230.00	111.7 AV			1.59 V	218	72.1	39.6
5	5350.00	56.1 PK	74.0	-17.9	1.60 V	328	54.2	1.9
6	5350.00	45.5 AV	54.0	-8.5	1.60 V	328	43.6	1.9
7	5424.00	60.0 PK	74.0	-14.0	1.60 V	337	58.0	2.0
8	5424.00	48.7 AV	54.0	-5.3	1.60 V	337	46.7	2.0
9	#10460.00	60.2 PK	74.0	-13.8	1.75 V	311	46.6	13.6
10	#10460.00	46.9 AV	54.0	-7.1	1.75 V	311	33.3	13.6

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 151	DETECTOR	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz	FUNCTION	Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5641.60	63.6 PK	68.2	-4.6	3.76 H	175	61.9	1.7
2	#5650.00	66.6 PK	68.2	-1.6	3.98 H	351	64.9	1.7
3	*5755.00	121.6 PK			3.76 H	175	81.7	39.9
4	*5755.00	111.8 AV			3.76 H	175	71.9	39.9
5	#5968.80	62.2 PK	68.2	-6.0	3.76 H	175	59.5	2.7
6	11510.00	61.8 PK	74.0	-12.2	1.96 H	294	47.3	14.5
7	11510.00	48.3 AV	54.0	-5.7	1.96 H	294	33.8	14.5
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5647.20	56.3 PK	68.2	-11.9	2.26 V	211	54.6	1.7
2	#5650.00	57.6 PK	68.2	-10.6	2.29 V	211	55.9	1.7
3	*5755.00	110.1 PK			2.26 V	211	70.2	39.9
4	*5755.00	100.4 AV			2.26 V	211	60.5	39.9
5	#5965.60	57.4 PK	68.2	-10.8	2.26 V	211	54.7	
6	11510.00	61.7 PK	74.0	-12.3	1.59 V	353	47.2	14.5
7	11510.00	48.9 AV	54.0	-5.1	1.59 V	353	34.4	14.5

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 159	DETECTOR	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz	FUNCTION	Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5645.60	61.5 PK	68.2	-6.7	1.54 H	350	59.8	1.7
2	*5795.00	122.2 PK			1.54 H	350	82.1	40.1
3	*5795.00	112.2 AV			1.54 H	350	72.1	40.1
4	#5925.00	66.5 PK	68.2	-1.7	1.10 H	348	63.9	2.6
5	#5936.80	64.1 PK	68.2	-4.1	1.54 H	350	61.5	2.6
6	11590.00	61.2 PK	74.0	-12.8	1.84 H	37	46.9	14.3
7	11590.00	48.1 AV	54.0	-5.9	1.84 H	37	33.8	14.3
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5606.40	56.3 PK	68.2	-11.9	1.02 V	262	54.6	1.7
2	*5795.00	112.3 PK			1.02 V	262	72.2	40.1
3	*5795.00	102.4 AV			1.02 V	262	62.3	40.1
4	#5925.00	58.0 PK	68.2	-10.2	2.08 V	246	55.4	2.6
5	#5926.40	59.2 PK	68.2	-9.0	1.02 V	262	56.6	2.6
6	11590.00	60.3 PK	74.0	-13.7	2.25 V	114	46.0	14.3
7	11590.00	47.0 AV	54.0	-7.0	2.25 V	114	32.7	14.3

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

802.11ac (VHT80)

CHANNEL	TX Channel 42	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	55.5 PK	74.0	-18.5	2.51 H	147	53.8	1.7
2	5150.00	44.4 AV	54.0	-9.6	2.51 H	147	42.7	1.7
3	*5210.00	96.6 PK			2.86 H	298	57.0	39.6
4	*5210.00	86.5 AV			2.86 H	298	46.9	39.6
5	5350.00	53.9 PK	74.0	-20.1	2.00 H	184	52.0	1.9
6	5350.00	43.0 AV	54.0	-11.0	2.00 H	184	41.1	1.9
7	5424.00	56.5 PK	74.0	-17.5	2.00 H	179	54.5	2.0
8	5424.00	45.7 AV	54.0	-8.3	2.00 H	179	43.7	2.0
9	#10420.00	57.5 PK	74.0	-16.5	1.55 H	37	44.4	13.1
10	#10420.00	44.9 AV	54.0	-9.1	1.55 H	37	31.8	13.1
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	66.4 PK	74.0	-7.6	1.65 V	178	64.7	1.7
2	5150.00	52.8 AV	54.0	-1.2	1.65 V	178	51.1	1.7
3	*5210.00	110.3 PK			1.67 V	177	70.7	39.6
4	*5210.00	100.9 AV			1.67 V	177	61.3	39.6
5	5350.00	56.3 PK	74.0	-17.7	1.66 V	180	54.4	1.9
6	5350.00	45.3 AV	54.0	-8.7	1.66 V	180	43.4	1.9
7	5424.00	60.4 PK	74.0	-13.6	1.66 V	321	58.4	2.0
8	5424.00	49.2 AV	54.0	-4.8	1.66 V	321	47.2	2.0
9	#10420.00	58.5 PK	74.0	-15.5	1.88 V	330	45.4	13.1
10	#10420.00	45.7 AV	54.0	-8.3	1.88 V	330	32.6	13.1

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 155	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5644.80	62.0 PK	68.2	-6.2	1.37 H	350	60.3	1.7
2	#5650.00	66.6 PK	68.2	-1.6	4.00 H	351	64.9	1.7
3	*5775.00	115.0 PK			1.37 H	350	75.0	40.0
4	*5775.00	104.9 AV			1.37 H	350	64.9	40.0
5	#5925.00	64.9 PK	68.2	-3.3	1.06 H	347	62.3	2.6
6	#5926.40	62.9 PK	68.2	-5.3	1.37 H	350	60.3	2.6
7	11550.00	60.8 PK	74.0	-13.2	1.33 H	324	46.3	14.5
8	11550.00	46.9 AV	54.0	-7.1	1.33 H	324	32.4	14.5
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5640.00	57.1 PK	68.2	-11.1	1.18 V	264	55.4	1.7
2	#5650.00	56.6 PK	68.2	-11.6	1.37 V	208	54.9	1.7
3	*5775.00	105.0 PK			1.18 V	264	65.0	40.0
4	*5775.00	95.0 AV			1.18 V	264	55.0	40.0
5	#5925.00	58.5 PK	68.2	-9.7	1.19 V	252	55.9	2.6
6	#5946.40	58.0 PK	68.2	-10.2	1.18 V	264	55.4	2.6
7	11550.00	60.6 PK	74.0	-13.4	1.76 V	241	46.1	14.5
8	11550.00	46.7 AV	54.0	-7.3	1.76 V	241	32.2	14.5

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

Mode B

802.11a

CHANNEL	TX Channel 36	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	55.4 PK	74.0	-18.6	2.02 H	321	51.8	3.6
2	5150.00	44.2 AV	54.0	-9.8	2.02 H	321	40.6	3.6
3	*5180.00	106.6 PK			2.10 H	317	67.1	39.5
4	*5180.00	97.0 AV			2.10 H	317	57.5	39.5
5	#10360.00	57.8 PK	74.0	-16.2	1.81 H	349	42.1	15.7
6	#10360.00	44.9 AV	54.0	-9.1	1.81 H	349	29.2	15.7
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	67.3 PK	74.0	-6.7	1.81 V	338	63.7	3.6
2	5150.00	52.5 AV	54.0	-1.5	1.81 V	338	48.9	3.6
3	*5180.00	120.0 PK			1.84 V	345	80.5	39.5
4	*5180.00	110.2 AV			1.84 V	345	70.7	39.5
5	#10360.00	58.5 PK	74.0	-15.5	2.18 V	190	42.8	15.7
6	#10360.00	45.5 AV	54.0	-8.5	2.18 V	190	29.8	15.7

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 40	DETECTOR	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz	FUNCTION	Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	56.4 PK	74.0	-17.6	2.15 H	21	52.8	3.6
2	5150.00	45.4 AV	54.0	-8.6	2.15 H	21	41.8	3.6
3	*5200.00	110.9 PK			1.99 H	316	71.4	39.5
4	*5200.00	101.0 AV			1.99 H	316	61.5	39.5
5	#10400.00	58.4 PK	74.0	-15.6	1.65 H	23	42.8	15.6
6	#10400.00	45.4 AV	54.0	-8.6	1.65 H	23	29.8	15.6
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	65.7 PK	74.0	-8.3	1.77 V	359	62.1	3.6
2	5150.00	52.2 AV	54.0	-1.8	1.77 V	359	48.6	3.6
3	*5200.00	124.6 PK			1.77 V	345	85.1	39.5
4	*5200.00	114.7 AV			1.77 V	345	75.2	39.5
5	#10400.00	59.7 PK	74.0	-14.3	2.00 V	359	44.1	15.6
6	#10400.00	46.6 AV	54.0	-7.4	2.00 V	359	31.0	15.6

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 48	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5240.00	111.2 PK			2.07 H	317	71.7	39.5
2	*5240.00	101.8 AV			2.07 H	317	62.3	39.5
3	5350.00	56.2 PK	74.0	-17.8	2.00 H	321	52.3	3.9
4	5350.00	45.2 AV	54.0	-8.8	2.00 H	321	41.3	3.9
5	#10480.00	59.4 PK	74.0	-14.6	2.22 H	17	42.6	16.8
6	#10480.00	46.5 AV	54.0	-7.5	2.22 H	17	29.7	16.8
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5240.00	124.4 PK			1.75 V	344	84.9	39.5
2	*5240.00	114.8 AV			1.75 V	344	75.3	39.5
3	5350.00	60.1 PK	74.0	-13.9	1.84 V	318	56.2	3.9
4	5350.00	49.2 AV	54.0	-4.8	1.84 V	318	45.3	3.9
5	#10480.00	59.9 PK	74.0	-14.1	1.74 V	196	43.1	16.8
6	#10480.00	46.8 AV	54.0	-7.2	1.74 V	196	30.0	16.8

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 149	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5643.20	56.1 PK	68.2	-12.1	1.79 H	321	53.6	2.5
2	*5745.00	109.2 PK			1.79 H	321	69.3	39.9
3	*5745.00	98.6 AV			1.79 H	321	58.7	39.9
4	#5954.40	58.2 PK	68.2	-10.0	1.79 H	321	55.0	3.2
5	11490.00	60.8 PK	74.0	-13.2	1.84 H	200	45.8	15.0
6	11490.00	47.8 AV	54.0	-6.2	1.84 H	200	32.8	15.0
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5646.40	57.1 PK	68.2	-11.1	1.84 V	5	54.6	2.5
2	*5745.00	119.7 PK			1.84 V	5	79.8	39.9
3	*5745.00	111.8 AV			1.84 V	5	71.9	39.9
4	#5960.80	58.8 PK	68.2	-9.4	1.84 V	5	55.6	3.2
5	11490.00	66.2 PK	74.0	-7.8	2.28 V	266	51.2	15.0
6	11490.00	52.6 AV	54.0	-1.4	2.28 V	266	37.6	15.0

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 157	DETECTOR	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz	FUNCTION	Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5641.60	55.8 PK	68.2	-12.4	1.80 H	320	53.3	2.5
2	*5785.00	107.6 PK			1.80 H	320	66.8	40.8
3	*5785.00	97.7 AV			1.80 H	320	56.9	40.8
4	#5932.80	57.6 PK	68.2	-10.6	1.80 H	320	54.4	3.2
5	11570.00	60.4 PK	74.0	-13.6	2.20 H	263	45.5	14.9
6	11570.00	47.8 AV	54.0	-6.2	2.20 H	263	32.9	14.9
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5630.40	57.4 PK	68.2	-10.8	1.57 V	359	54.9	2.5
2	*5785.00	121.0 PK			1.57 V	359	80.2	40.8
3	*5785.00	110.9 AV			1.57 V	359	70.1	40.8
4	#5929.60	59.9 PK	68.2	-8.3	1.57 V	359	56.8	3.1
5	11570.00	65.3 PK	74.0	-8.7	2.28 V	255	50.4	14.9
6	11570.00	52.3 AV	54.0	-1.7	2.28 V	255	37.4	14.9

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 165	DETECTOR	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz	FUNCTION	Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5619.20	56.0 PK	68.2	-12.2	1.88 H	321	53.5	2.5
2	*5825.00	109.3 PK			1.88 H	321	68.4	40.9
3	*5825.00	98.7 AV			1.88 H	321	57.8	40.9
4	#5943.20	57.6 PK	68.2	-10.6	1.88 H	321	54.4	3.2
5	11650.00	60.7 PK	74.0	-13.3	2.22 H	263	45.8	14.9
6	11650.00	47.7 AV	54.0	-6.3	2.22 H	263	32.8	14.9
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5626.40	57.4 PK	68.2	-10.8	2.52 V	356	54.9	2.5
2	*5825.00	122.3 PK			2.52 V	356	81.4	40.9
3	*5825.00	112.3 AV			2.52 V	356	71.4	40.9
4	#5926.40	58.5 PK	68.2	-9.7	2.52 V	356	55.4	3.1
5	11650.00	65.5 PK	74.0	-8.5	2.42 V	257	50.6	14.9
6	11650.00	52.4 AV	54.0	-1.6	2.42 V	257	37.5	14.9

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

802.11n (HT20)

CHANNEL	TX Channel 36	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	55.4 PK	74.0	-18.6	2.33 H	303	51.8	3.6
2	5150.00	44.4 AV	54.0	-9.6	2.33 H	303	40.8	3.6
3	*5180.00	70.5 PK			2.61 H	302	66.9	3.6
4	*5180.00	60.2 AV			2.61 H	302	56.6	3.6
5	#10360.00	57.6 PK	74.0	-16.4	1.61 H	30	41.9	15.7
6	#10360.00	44.8 AV	54.0	-9.2	1.61 H	30	29.1	15.7
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	67.9 PK	74.0	-6.1	1.81 V	6	64.3	3.6
2	5150.00	52.3 AV	54.0	-1.7	1.81 V	6	48.7	3.6
3	*5180.00	119.7 PK			1.83 V	1	80.2	39.5
4	*5180.00	109.5 AV			1.83 V	1	70.0	39.5
5	#10360.00	58.1 PK	74.0	-15.9	2.19 V	193	42.4	15.7
6	#10360.00	45.1 AV	54.0	-8.9	2.19 V	193	29.4	15.7

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 40	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	56.8 PK	74.0	-17.2	2.47 H	340	53.2	3.6
2	5150.00	45.8 AV	54.0	-8.2	2.47 H	340	42.2	3.6
3	*5200.00	111.2 PK			2.49 H	304	71.7	39.5
4	*5200.00	100.8 AV			2.49 H	304	61.3	39.5
5	#10400.00	58.2 PK	74.0	-15.8	1.55 H	36	42.6	15.6
6	#10400.00	45.0 AV	54.0	-9.0	1.55 H	36	29.4	15.6
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	68.5 PK	74.0	-5.5	1.77 V	346	64.9	3.6
2	5150.00	52.3 AV	54.0	-1.7	1.77 V	346	48.7	3.6
3	*5200.00	124.2 PK			1.81 V	10	84.7	39.5
4	*5200.00	114.1 AV			1.81 V	10	74.6	39.5
5	#10400.00	59.1 PK	74.0	-14.9	2.05 V	184	43.5	15.6
6	#10400.00	46.2 AV	54.0	-7.8	2.05 V	184	30.6	15.6

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 48	DETECTOR	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz	FUNCTION	Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5240.00	110.6 PK			2.48 H	302	71.1	39.5
2	*5240.00	100.3 AV			2.48 H	302	60.8	39.5
3	5350.00	58.7 PK	74.0	-15.3	2.46 H	311	54.8	3.9
4	5350.00	47.7 AV	54.0	-6.3	2.46 H	311	43.8	3.9
5	#10480.00	59.9 PK	74.0	-14.1	1.58 H	52	43.1	16.8
6	#10480.00	46.9 AV	54.0	-7.1	1.58 H	52	30.1	16.8
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5240.00	124.4 PK			1.85 V	9	84.9	39.5
2	*5240.00	114.5 AV			1.85 V	9	75.0	39.5
3	5350.00	61.5 PK	74.0	-12.5	1.90 V	64	57.6	3.9
4	5350.00	50.0 AV	54.0	-4.0	1.90 V	64	46.1	3.9
5	#10480.00	60.7 PK	74.0	-13.3	1.99 V	201	43.9	16.8
6	#10480.00	48.0 AV	54.0	-6.0	1.99 V	201	31.2	16.8

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 149	DETECTOR	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz	FUNCTION	Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5610.40	56.1 PK	68.2	-12.1	3.03 H	295	53.6	2.5
2	*5745.00	105.1 PK			3.03 H	295	64.4	40.7
3	*5745.00	94.7 AV			3.03 H	295	54.0	40.7
4	#5932.00	57.5 PK	68.2	-10.7	3.03 H	295	54.3	3.2
5	11490.00	61.9 PK	74.0	-12.1	2.78 H	243	46.9	15.0
6	11490.00	47.9 AV	54.0	-6.1	2.78 H	243	32.9	15.0
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5634.40	61.5 PK	68.2	-6.7	2.31 V	354	59.0	2.5
2	*5745.00	121.8 PK			2.31 V	354	81.1	40.7
3	*5745.00	112.7 AV			2.31 V	354	72.0	40.7
4	#5934.40	62.2 PK	68.2	-6.0	2.31 V	354	59.0	3.2
5	11490.00	66.3 PK	74.0	-7.7	2.26 V	253	51.3	15.0
6	11490.00	52.3 AV	54.0	-1.7	2.26 V	253	37.3	15.0

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 157	DETECTOR	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz	FUNCTION	Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5624.00	56.4 PK	68.2	-11.8	3.85 H	263	53.9	2.5
2	*5785.00	101.8 PK			3.85 H	263	61.0	40.8
3	*5785.00	91.5 AV			3.85 H	263	50.7	40.8
4	#5954.40	57.3 PK	68.2	-10.9	3.85 H	263	54.1	3.2
5	11570.00	62.4 PK	74.0	-11.6	2.22 H	261	47.5	14.9
6	11570.00	47.6 AV	54.0	-6.4	2.22 H	261	32.7	14.9
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5619.20	61.2 PK	68.2	-7.0	1.71 V	334	58.7	2.5
2	*5785.00	121.6 PK			1.71 V	334	80.8	40.8
3	*5785.00	110.9 AV			1.71 V	334	70.1	40.8
4	#5932.80	62.6 PK	68.2	-5.6	1.71 V	334	59.4	3.2
5	11570.00	65.1 PK	74.0	-8.9	2.32 V	253	50.2	14.9
6	11570.00	52.2 AV	54.0	-1.8	2.32 V	253	37.3	14.9

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 165	DETECTOR	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz	FUNCTION	Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5639.20	56.5 PK	68.2	-11.7	3.52 H	109	54.0	2.5
2	*5825.00	106.4 PK			3.52 H	109	65.5	40.9
3	*5825.00	96.0 AV			3.52 H	109	55.1	40.9
4	#5956.00	57.4 PK	68.2	-10.8	3.52 H	109	54.2	3.2
5	11650.00	60.1 PK	74.0	-13.9	2.94 H	272	45.2	14.9
6	11650.00	47.2 AV	54.0	-6.8	2.94 H	272	32.3	14.9
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5616.80	56.5 PK	68.2	-11.7	2.36 V	357	54.0	2.5
2	*5825.00	122.0 PK			2.36 V	357	81.1	40.9
3	*5825.00	111.5 AV			2.36 V	357	70.6	40.9
4	#5947.20	57.8 PK	68.2	-10.4	2.36 V	357	54.6	3.2
5	11650.00	65.2 PK	74.0	-8.8	2.47 V	251	50.3	14.9
6	11650.00	52.3 AV	54.0	-1.7	2.47 V	251	37.4	14.9

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

802.11n (HT40)

CHANNEL	TX Channel 38	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	56.2 PK	74.0	-17.8	2.30 H	316	52.6	3.6
2	5150.00	45.3 AV	54.0	-8.7	2.30 H	316	41.7	3.6
3	*5190.00	101.3 PK			2.40 H	302	61.8	39.5
4	*5190.00	91.8 AV			2.40 H	302	52.3	39.5
5	#10380.00	57.5 PK	74.0	-16.5	1.56 H	80	41.8	15.7
6	#10380.00	44.5 AV	54.0	-9.5	1.56 H	80	28.8	15.7
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	64.9 PK	74.0	-9.1	1.82 V	355	61.3	3.6
2	5150.00	52.5 AV	54.0	-1.5	1.82 V	355	48.9	3.6
3	*5190.00	113.4 PK			1.90 V	3	73.9	39.5
4	*5190.00	104.1 AV			1.90 V	3	64.6	39.5
5	#10380.00	57.8 PK	74.0	-16.2	2.07 V	180	42.1	15.7
6	#10380.00	44.8 AV	54.0	-9.2	2.07 V	180	29.1	15.7

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 46	DETECTOR	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz	FUNCTION	Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	56.6 PK	74.0	-17.4	2.43 H	299	53.0	3.6
2	5150.00	46.2 AV	54.0	-7.8	2.43 H	299	42.6	3.6
3	*5230.00	107.4 PK			2.56 H	301	67.9	39.5
4	*5230.00	97.9 AV			2.56 H	301	58.4	39.5
5	5350.00	56.4 PK	74.0	-17.6	2.50 H	300	52.5	3.9
6	5350.00	45.8 AV	54.0	-8.2	2.50 H	300	41.9	3.9
7	#10460.00	59.1 PK	74.0	-14.9	1.56 H	74	42.7	16.4
8	#10460.00	46.0 AV	54.0	-8.0	1.56 H	74	29.6	16.4
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	65.9 PK	74.0	-8.1	1.91 V	357	62.3	3.6
2	5150.00	53.0 AV	54.0	-1.0	1.91 V	357	49.4	3.6
3	*5230.00	120.2 PK			1.80 V	344	80.7	39.5
4	*5230.00	110.6 AV			1.80 V	344	71.1	39.5
5	5350.00	59.0 PK	74.0	-15.0	1.91 V	357	55.1	3.9
6	5350.00	47.2 AV	54.0	-6.8	1.91 V	357	43.3	3.9
7	#10460.00	59.6 PK	74.0	-14.4	2.06 V	203	43.2	16.4
8	#10460.00	46.7 AV	54.0	-7.3	2.06 V	203	30.3	16.4

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 151	DETECTOR	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz	FUNCTION	Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5634.40	56.8 PK	68.2	-11.4	3.97 H	130	54.3	2.5
2	#5650.00	58.3 PK	68.2	-9.9	2.97 H	124	55.8	2.5
3	*5755.00	103.4 PK			3.97 H	130	62.7	40.7
4	*5755.00	94.0 AV			3.97 H	130	53.3	40.7
5	#5976.00	57.5 PK	68.2	-10.7	3.97 H	130	54.1	3.4
6	11510.00	61.1 PK	74.0	-12.9	2.83 H	264	46.0	15.1
7	11510.00	48.2 AV	54.0	-5.8	2.83 H	264	33.1	15.1
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5643.20	62.5 PK	68.2	-5.7	1.44 V	339	60.0	2.5
2	#5650.00	63.5 PK	68.2	-4.7	1.28 V	350	61.0	2.5
3	*5755.00	121.0 PK			1.44 V	339	80.3	40.7
4	*5755.00	111.4 AV			1.44 V	339	70.7	40.7
5	#5936.00	62.5 PK	68.2	-5.7	1.44 V	339	59.3	3.2
6	11510.00	65.0 PK	74.0	-9.0	2.26 V	256	49.9	15.1
7	11510.00	52.3 AV	54.0	-1.7	2.26 V	256	37.2	15.1

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 159	DETECTOR	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz	FUNCTION	Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5645.60	56.2 PK	68.2	-12.0	2.51 H	312	53.7	2.5
2	*5795.00	99.6 PK			2.51 H	312	58.8	40.8
3	*5795.00	90.0 AV			2.51 H	312	49.2	40.8
4	#5937.60	57.6 PK	68.2	-10.6	2.51 H	312	54.4	3.2
5	11590.00	60.5 PK	74.0	-13.5	2.79 H	263	45.6	14.9
6	11590.00	47.3 AV	54.0	-6.7	2.79 H	263	32.4	14.9
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5631.20	57.0 PK	68.2	-11.2	2.36 V	340	54.5	2.5
2	*5795.00	119.3 PK			2.36 V	340	78.5	40.8
3	*5795.00	109.4 AV			2.36 V	340	68.6	40.8
4	#5928.00	60.1 PK	68.2	-8.1	2.36 V	340	57.0	3.1
5	11590.00	64.5 PK	74.0	-9.5	2.26 V	256	49.6	14.9
6	11590.00	52.4 AV	54.0	-1.6	2.26 V	256	37.5	14.9

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

802.11ac (VHT80)

CHANNEL	TX Channel 42	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	56.7 PK	74.0	-17.3	1.79 H	19	53.1	3.6
2	5150.00	46.3 AV	54.0	-7.7	1.79 H	19	42.7	3.6
3	*5210.00	95.2 PK			1.78 H	321	55.7	39.5
4	*5210.00	85.2 AV			1.78 H	321	45.7	39.5
5	5350.00	57.2 PK	74.0	-16.8	1.78 H	20	53.3	3.9
6	5350.00	46.0 AV	54.0	-8.0	1.78 H	20	42.1	3.9
7	#10420.00	57.4 PK	74.0	-16.6	1.90 H	179	41.5	15.9
8	#10420.00	44.5 AV	54.0	-9.5	1.90 H	179	28.6	15.9
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	66.6 PK	74.0	-7.4	1.86 V	4	63.0	3.6
2	5150.00	52.6 AV	54.0	-1.4	1.86 V	4	49.0	3.6
3	*5210.00	109.4 PK			1.93 V	343	69.9	39.5
4	*5210.00	99.4 AV			1.93 V	343	59.9	39.5
5	5350.00	60.5 PK	74.0	-13.5	1.86 V	17	56.6	3.9
6	5350.00	49.1 AV	54.0	-4.9	1.86 V	17	45.2	3.9
7	#10420.00	57.7 PK	74.0	-16.3	2.15 V	340	41.8	15.9
8	#10420.00	44.9 AV	54.0	-9.1	2.15 V	340	29.0	15.9

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 155	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5613.60	56.2 PK	68.2	-12.0	2.45 H	313	53.7	2.5
2	#5650.00	58.4 PK	68.2	-9.8	3.24 H	299	55.9	2.5
3	*5775.00	96.8 PK			2.45 H	313	56.0	40.8
4	*5775.00	86.9 AV			2.45 H	313	46.1	40.8
5	#5925.00	58.0 PK	68.2	-10.2	3.04 H	343	54.9	3.1
6	#5932.80	58.0 PK	68.2	-10.2	2.45 H	313	54.8	3.2
7	11550.00	60.5 PK	74.0	-13.5	2.88 H	261	45.4	15.1
8	11550.00	47.3 AV	54.0	-6.7	2.88 H	261	32.2	15.1
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5644.00	63.8 PK	68.2	-4.4	2.02 V	339	61.3	2.5
2	#5650.00	66.5 PK	68.2	-1.7	1.98 V	5	64.0	2.5
3	*5775.00	114.6 PK			2.02 V	339	73.8	40.8
4	*5775.00	104.1 AV			2.02 V	339	63.3	40.8
5	#5925.00	64.3 PK	68.2	-3.9	2.29 V	342	61.2	3.1
6	#5926.40	63.0 PK	68.2	-5.2	2.02 V	339	59.9	3.1
7	11550.00	61.5 PK	74.0	-12.5	2.28 V	255	46.4	15.1
8	11550.00	49.0 AV	54.0	-5.0	2.28 V	255	33.9	15.1

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

Mode C

802.11a

CHANNEL	TX Channel 36	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	68.3 PK	74.0	-5.7	1.64 H	346	64.7	3.6
2	5150.00	52.9 AV	54.0	-1.1	1.64 H	346	49.3	3.6
3	*5180.00	122.9 PK			1.67 H	341	83.4	39.5
4	*5180.00	112.6 AV			1.67 H	341	73.1	39.5
5	#10360.00	58.7 PK	74.0	-15.3	1.70 H	194	43.0	15.7
6	#10360.00	45.4 AV	54.0	-8.6	1.70 H	194	29.7	15.7
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	58.2 PK	74.0	-15.8	3.20 V	13	54.6	3.6
2	5150.00	45.4 AV	54.0	-8.6	3.20 V	13	41.8	3.6
3	*5180.00	109.9 PK			3.20 V	15	70.4	39.5
4	*5180.00	99.8 AV			3.20 V	15	60.3	39.5
5	#10360.00	57.4 PK	74.0	-16.6	1.00 V	348	41.7	15.7
6	#10360.00	44.3 AV	54.0	-9.7	1.00 V	348	28.6	15.7

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 40	DETECTOR	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz	FUNCTION	Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	69.5 PK	74.0	-4.5	1.60 H	343	65.9	3.6
2	5150.00	52.8 AV	54.0	-1.2	1.60 H	343	49.2	3.6
3	*5200.00	127.2 PK			1.59 H	343	87.7	39.5
4	*5200.00	116.9 AV			1.59 H	343	77.4	39.5
5	#10400.00	58.9 PK	74.0	-15.1	1.74 H	193	43.3	15.6
6	#10400.00	45.5 AV	54.0	-8.5	1.74 H	193	29.9	15.6
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	57.9 PK	74.0	-16.1	3.04 V	12	54.3	3.6
2	5150.00	45.0 AV	54.0	-9.0	3.04 V	12	41.4	3.6
3	*5200.00	114.3 PK			3.03 V	11	74.8	39.5
4	*5200.00	104.0 AV			3.03 V	11	64.5	39.5
5	#10400.00	57.7 PK	74.0	-16.3	1.00 V	352	42.1	15.6
6	#10400.00	44.4 AV	54.0	-9.6	1.00 V	352	28.8	15.6

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 48	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5240.00	127.4 PK			1.74 H	343	87.9	39.5
2	*5240.00	117.1 AV			1.74 H	343	77.6	39.5
3	5350.00	60.5 PK	74.0	-13.5	1.77 H	347	56.6	3.9
4	5350.00	50.2 AV	54.0	-3.8	1.77 H	347	46.3	3.9
5	#10480.00	59.1 PK	74.0	-14.9	1.70 H	190	42.3	16.8
6	#10480.00	46.4 AV	54.0	-7.6	1.70 H	190	29.6	16.8
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5240.00	113.5 PK			3.02 V	11	74.0	39.5
2	*5240.00	103.2 AV			3.02 V	11	63.7	39.5
3	5350.00	56.7 PK	74.0	-17.3	3.01 V	15	52.8	3.9
4	5350.00	43.3 AV	54.0	-10.7	3.01 V	15	39.4	3.9
5	#10480.00	58.6 PK	74.0	-15.4	1.00 V	354	41.8	16.8
6	#10480.00	45.2 AV	54.0	-8.8	1.00 V	354	28.4	16.8

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 149	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5631.20	59.5 PK	68.2	-8.7	2.01 H	351	57.0	2.5
2	*5745.00	126.4 PK			2.01 H	351	85.7	40.7
3	*5745.00	116.3 AV			2.01 H	351	75.6	40.7
4	#5958.40	59.6 PK	68.2	-8.6	2.01 H	351	56.4	3.2
5	11490.00	59.9 PK	74.0	-14.1	2.03 H	334	44.9	15.0
6	11490.00	46.7 AV	54.0	-7.3	2.03 H	334	31.7	15.0
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5604.80	56.1 PK	68.2	-12.1	2.96 V	317	53.6	2.5
2	*5745.00	112.9 PK			2.96 V	317	72.2	40.7
3	*5745.00	102.2 AV			2.96 V	317	61.5	40.7
4	#5992.00	58.1 PK	68.2	-10.1	2.96 V	317	54.7	3.4
5	11490.00	64.8 PK	74.0	-9.2	2.35 V	254	49.8	15.0
6	11490.00	52.1 AV	54.0	-1.9	2.35 V	254	37.1	15.0

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 157	DETECTOR	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz	FUNCTION	Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5616.00	58.8 PK	68.2	-9.4	1.56 H	350	56.3	2.5
2	*5785.00	127.2 PK			1.56 H	350	86.4	40.8
3	*5785.00	116.7 AV			1.56 H	350	75.9	40.8
4	#5956.00	59.5 PK	68.2	-8.7	1.56 H	350	56.3	3.2
5	11570.00	60.5 PK	74.0	-13.5	1.87 H	264	45.6	14.9
6	11570.00	47.8 AV	54.0	-6.2	1.87 H	264	32.9	14.9
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5627.20	55.3 PK	68.2	-12.9	2.72 V	314	52.8	2.5
2	*5785.00	112.6 PK			2.73 V	314	71.8	40.8
3	*5785.00	102.2 AV			2.73 V	314	61.4	40.8
4	#5952.00	57.7 PK	68.2	-10.5	2.72 V	314	54.5	3.2
5	11570.00	63.9 PK	74.0	-10.1	3.07 V	254	49.0	14.9
6	11570.00	51.1 AV	54.0	-2.9	3.07 V	254	36.2	14.9

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 165	DETECTOR	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz	FUNCTION	Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5633.60	57.9 PK	68.2	-10.3	1.54 H	352	55.4	2.5
2	*5825.00	127.0 PK			1.54 H	352	86.1	40.9
3	*5825.00	116.6 AV			1.54 H	352	75.7	40.9
4	#5950.40	60.2 PK	68.2	-8.0	1.54 H	352	57.0	3.2
5	11650.00	58.9 PK	74.0	-15.1	1.78 H	321	44.0	14.9
6	11650.00	45.8 AV	54.0	-8.2	1.78 H	321	30.9	14.9
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5640.00	54.9 PK	68.2	-13.3	2.64 V	318	52.4	2.5
2	*5825.00	111.7 PK			2.64 V	318	70.8	40.9
3	*5825.00	101.6 AV			2.64 V	318	60.7	40.9
4	#5932.00	56.1 PK	68.2	-12.1	2.64 V	318	52.9	3.2
5	11650.00	64.6 PK	74.0	-9.4	2.52 V	255	49.7	14.9
6	11650.00	51.7 AV	54.0	-2.3	2.52 V	255	36.8	14.9

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

802.11n (HT20)

CHANNEL	TX Channel 36	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	68.9 PK	74.0	-5.1	1.65 H	340	65.3	3.6
2	5150.00	52.7 AV	54.0	-1.3	1.65 H	340	49.1	3.6
3	*5180.00	122.0 PK			1.51 H	345	82.5	39.5
4	*5180.00	111.9 AV			1.51 H	345	72.4	39.5
5	#10360.00	58.5 PK	74.0	-15.5	1.73 H	195	42.8	15.7
6	#10360.00	45.3 AV	54.0	-8.7	1.73 H	195	29.6	15.7
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	58.7 PK	74.0	-15.3	3.32 V	17	55.1	3.6
2	5150.00	45.8 AV	54.0	-8.2	3.32 V	17	42.2	3.6
3	*5180.00	109.6 PK			3.39 V	15	70.1	39.5
4	*5180.00	99.4 AV			3.39 V	15	59.9	39.5
5	#10360.00	57.5 PK	74.0	-16.5	1.00 V	308	41.8	15.7
6	#10360.00	44.8 AV	54.0	-9.2	1.00 V	308	29.1	15.7

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 40	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	70.4 PK	74.0	-3.6	1.49 H	339	66.8	3.6
2	5150.00	53.0 AV	54.0	-1.0	1.49 H	339	49.4	3.6
3	*5200.00	127.5 PK			1.52 H	345	88.0	39.5
4	*5200.00	117.3 AV			1.52 H	345	77.8	39.5
5	#10400.00	59.2 PK	74.0	-14.8	2.01 H	181	43.6	15.6
6	#10400.00	46.0 AV	54.0	-8.0	2.01 H	181	30.4	15.6
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	58.2 PK	74.0	-15.8	3.30 V	17	54.6	3.6
2	5150.00	45.4 AV	54.0	-8.6	3.30 V	17	41.8	3.6
3	*5200.00	115.3 PK			3.37 V	16	75.8	39.5
4	*5200.00	104.8 AV			3.37 V	16	65.3	39.5
5	#10400.00	58.1 PK	74.0	-15.9	1.05 V	354	42.5	15.6
6	#10400.00	44.8 AV	54.0	-9.2	1.05 V	354	29.2	15.6

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 48	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5240.00	127.8 PK			1.72 H	344	88.3	39.5
2	*5240.00	117.3 AV			1.72 H	344	77.8	39.5
3	5350.00	59.6 PK	74.0	-14.4	1.76 H	348	55.7	3.9
4	5350.00	49.9 AV	54.0	-4.1	1.76 H	348	46.0	3.9
5	#10480.00	59.6 PK	74.0	-14.4	1.92 H	204	42.8	16.8
6	#10480.00	47.1 AV	54.0	-6.9	1.92 H	204	30.3	16.8
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5240.00	114.6 PK			3.01 V	11	75.1	39.5
2	*5240.00	104.1 AV			3.01 V	11	64.6	39.5
3	5350.00	57.1 PK	74.0	-16.9	3.02 V	19	53.2	3.9
4	5350.00	43.7 AV	54.0	-10.3	3.02 V	19	39.8	3.9
5	#10480.00	59.1 PK	74.0	-14.9	1.00 V	357	42.3	16.8
6	#10480.00	45.6 AV	54.0	-8.4	1.00 V	357	28.8	16.8

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 149	DETECTOR	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz	FUNCTION	Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5624.80	62.0 PK	68.2	-6.2	1.41 H	345	59.5	2.5
2	*5745.00	127.8 PK			1.41 H	345	87.1	40.7
3	*5745.00	117.1 AV			1.41 H	345	76.4	40.7
4	#5944.00	63.2 PK	68.2	-5.0	1.41 H	345	60.0	3.2
5	11490.00	60.0 PK	74.0	-14.0	1.57 H	269	45.0	15.0
6	11490.00	47.0 AV	54.0	-7.0	1.57 H	269	32.0	15.0
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5644.80	58.4 PK	68.2	-9.8	2.91 V	316	55.9	2.5
2	*5745.00	112.1 PK			2.91 V	316	71.4	40.7
3	*5745.00	101.5 AV			2.91 V	316	60.8	40.7
4	#5954.40	57.7 PK	68.2	-10.5	2.91 V	316	54.5	3.2
5	11490.00	67.0 PK	74.0	-7.0	2.22 V	252	52.0	15.0
6	11490.00	52.6 AV	54.0	-1.4	2.22 V	252	37.6	15.0

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 157	DETECTOR	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz	FUNCTION	Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5643.20	61.6 PK	68.2	-6.6	1.10 H	345	59.1	2.5
2	*5785.00	127.6 PK			1.10 H	345	86.8	40.8
3	*5785.00	117.0 AV			1.10 H	345	76.2	40.8
4	#5956.80	62.7 PK	68.2	-5.5	1.10 H	345	59.5	3.2
5	11570.00	59.3 PK	74.0	-14.7	1.74 H	204	44.4	14.9
6	11570.00	46.9 AV	54.0	-7.1	1.74 H	204	32.0	14.9
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5627.20	56.8 PK	68.2	-11.4	3.15 V	324	54.3	2.5
2	*5785.00	112.3 PK			3.15 V	324	71.5	40.8
3	*5785.00	101.0 AV			3.15 V	324	60.2	40.8
4	#5964.00	57.8 PK	68.2	-10.4	3.15 V	324	54.5	3.3
5	11570.00	66.2 PK	74.0	-7.8	2.23 V	259	51.3	14.9
6	11570.00	52.5 AV	54.0	-1.5	2.23 V	259	37.6	14.9

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 165	DETECTOR	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz	FUNCTION	Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5644.00	61.5 PK	68.2	-6.7	1.65 H	345	59.0	2.5
2	*5825.00	127.3 PK			1.65 H	345	86.4	40.9
3	*5825.00	117.0 AV			1.65 H	345	76.1	40.9
4	#5940.00	62.7 PK	68.2	-5.5	1.65 H	345	59.5	3.2
5	11650.00	59.8 PK	74.0	-14.2	1.64 H	293	44.9	14.9
6	11650.00	47.0 AV	54.0	-7.0	1.64 H	293	32.1	14.9
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5624.00	55.7 PK	68.2	-12.5	2.70 V	327	53.2	2.5
2	*5825.00	111.6 PK			2.70 V	327	70.7	40.9
3	*5825.00	100.7 AV			2.70 V	327	59.8	40.9
4	#5972.00	57.0 PK	68.2	-11.2	2.70 V	327	53.7	3.3
5	11650.00	64.9 PK	74.0	-9.1	2.22 V	254	50.0	14.9
6	11650.00	51.7 AV	54.0	-2.3	2.22 V	254	36.8	14.9

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

802.11n (HT40)

CHANNEL	TX Channel 38	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	67.4 PK	74.0	-6.6	1.42 H	345	63.8	3.6
2	5150.00	52.6 AV	54.0	-1.4	1.42 H	345	49.0	3.6
3	*5190.00	116.3 PK			1.42 H	345	76.8	39.5
4	*5190.00	106.3 AV			1.42 H	345	66.8	39.5
5	#10380.00	58.4 PK	74.0	-15.6	1.77 H	187	42.7	15.7
6	#10380.00	45.1 AV	54.0	-8.9	1.77 H	187	29.4	15.7
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	59.3 PK	74.0	-14.7	3.40 V	18	55.7	3.6
2	5150.00	46.3 AV	54.0	-7.7	3.40 V	18	42.7	3.6
3	*5190.00	103.5 PK			3.40 V	15	64.0	39.5
4	*5190.00	93.5 AV			3.40 V	15	54.0	39.5
5	#10380.00	57.4 PK	74.0	-16.6	1.51 V	88	41.7	15.7
6	#10380.00	44.5 AV	54.0	-9.5	1.51 V	88	28.8	15.7

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 46	DETECTOR	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz	FUNCTION	Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	66.5 PK	74.0	-7.5	1.88 H	345	62.9	3.6
2	5150.00	53.0 AV	54.0	-1.0	1.88 H	345	49.4	3.6
3	*5230.00	122.8 PK			1.83 H	343	83.3	39.5
4	*5230.00	112.6 AV			1.83 H	343	73.1	39.5
5	5350.00	60.3 PK	74.0	-13.7	1.85 H	348	56.4	3.9
6	5350.00	51.1 AV	54.0	-2.9	1.85 H	348	47.2	3.9
7	#10460.00	59.1 PK	74.0	-14.9	1.96 H	207	42.7	16.4
8	#10460.00	46.4 AV	54.0	-7.6	1.96 H	207	30.0	16.4
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	58.5 PK	74.0	-15.5	3.06 V	1	54.9	3.6
2	5150.00	46.0 AV	54.0	-8.0	3.06 V	1	42.4	3.6
3	*5230.00	108.7 PK			3.04 V	6	69.2	39.5
4	*5230.00	98.9 AV			3.04 V	6	59.4	39.5
5	5350.00	57.1 PK	74.0	-16.9	3.06 V	1	53.2	3.9
6	5350.00	45.1 AV	54.0	-8.9	3.06 V	1	41.2	3.9
7	#10460.00	58.9 PK	74.0	-15.1	1.54 V	76	42.5	16.4
8	#10460.00	45.3 AV	54.0	-8.7	1.54 V	76	28.9	16.4

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 151	DETECTOR	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz	FUNCTION	Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5644.00	64.3 PK	68.2	-3.9	1.68 H	347	61.8	2.5
2	#5650.00	66.6 PK	68.2	-1.6	1.54 H	354	64.1	2.5
3	*5755.00	124.5 PK			1.68 H	347	83.8	40.7
4	*5755.00	114.9 AV			1.68 H	347	74.2	40.7
5	#5960.00	62.8 PK	68.2	-5.4	1.68 H	347	59.6	3.2
6	11510.00	60.5 PK	74.0	-13.5	1.47 H	286	45.4	15.1
7	11510.00	46.6 AV	54.0	-7.4	1.47 H	286	31.5	15.1
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5632.00	55.7 PK	68.2	-12.5	2.74 V	320	53.2	2.5
2	#5650.00	57.3 PK	68.2	-10.9	3.04 V	299	54.8	2.5
3	*5755.00	108.6 PK			2.74 V	320	67.9	40.7
4	*5755.00	98.9 AV			2.74 V	320	58.2	40.7
5	#5956.00	56.9 PK	68.2	-11.3	2.74 V	320	53.7	3.2
6	11510.00	64.3 PK	74.0	-9.7	2.25 V	254	49.2	15.1
7	11510.00	51.8 AV	54.0	-2.2	2.25 V	254	36.7	15.1

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 159	DETECTOR	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz	FUNCTION	Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5649.60	62.1 PK	68.2	-6.1	1.45 H	344	59.6	2.5
2	*5795.00	124.4 PK			1.45 H	344	83.6	40.8
3	*5795.00	115.0 AV			1.45 H	344	74.2	40.8
4	#5932.00	65.7 PK	68.2	-2.5	1.45 H	344	62.5	3.2
5	11590.00	60.3 PK	74.0	-13.7	1.78 H	257	45.4	14.9
6	11590.00	46.4 AV	54.0	-7.6	1.78 H	257	31.5	14.9
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5606.40	56.0 PK	68.2	-12.2	2.83 V	327	53.5	2.5
2	*5795.00	108.9 PK			2.83 V	327	68.1	40.8
3	*5795.00	98.9 AV			2.83 V	327	58.1	40.8
4	#5952.80	57.5 PK	68.2	-10.7	2.83 V	327	54.3	3.2
5	11590.00	64.1 PK	74.0	-9.9	2.27 V	255	49.2	14.9
6	11590.00	51.6 AV	54.0	-2.4	2.27 V	255	36.7	14.9

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

802.11ac (VHT80)

CHANNEL	TX Channel 42	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	65.6 PK	74.0	-8.4	1.29 H	345	62.0	3.6
2	5150.00	53.0 AV	54.0	-1.0	1.29 H	345	49.4	3.6
3	*5210.00	112.0 PK			1.22 H	345	72.5	39.5
4	*5210.00	102.4 AV			1.22 H	345	62.9	39.5
5	5350.00	60.6 PK	74.0	-13.4	1.22 H	347	56.7	3.9
6	5350.00	49.8 AV	54.0	-4.2	1.22 H	347	45.9	3.9
7	#10420.00	58.2 PK	74.0	-15.8	1.75 H	190	42.3	15.9
8	#10420.00	44.6 AV	54.0	-9.4	1.75 H	190	28.7	15.9
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	58.3 PK	74.0	-15.7	3.38 V	10	54.7	3.6
2	5150.00	46.8 AV	54.0	-7.2	3.38 V	10	43.2	3.6
3	*5210.00	99.9 PK			3.34 V	15	60.4	39.5
4	*5210.00	90.2 AV			3.34 V	15	50.7	39.5
5	#10420.00	57.3 PK	74.0	-16.7	1.89 V	170	41.4	15.9
6	#10420.00	44.2 AV	54.0	-9.8	1.89 V	170	28.3	15.9

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 155	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5643.20	64.4 PK	68.2	-3.8	1.61 H	344	61.9	2.5
2	#5650.00	66.2 PK	68.2	-2.0	1.30 H	352	63.7	2.5
3	*5775.00	116.5 PK			1.61 H	344	75.7	40.8
4	*5775.00	106.7 AV			1.61 H	344	65.9	40.8
5	#5925.00	66.8 PK	68.2	-1.4	1.46 H	347	63.7	3.1
6	#5925.60	65.0 PK	68.2	-3.2	1.61 H	344	61.9	3.1
7	11550.00	60.1 PK	74.0	-13.9	1.44 H	273	45.0	15.1
8	11550.00	46.6 AV	54.0	-7.4	1.44 H	273	31.5	15.1
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5630.40	55.9 PK	68.2	-12.3	3.57 V	308	53.4	2.5
2	#5650.00	56.7 PK	68.2	-11.5	2.77 V	294	54.2	2.5
3	*5775.00	100.2 PK			3.57 V	308	59.4	40.8
4	*5775.00	89.9 AV			3.57 V	308	49.1	40.8
5	#5925.00	57.7 PK	68.2	-10.5	2.91 V	312	54.6	3.1
6	#5941.60	57.2 PK	68.2	-11.0	3.57 V	308	54.0	3.2
7	11550.00	60.5 PK	74.0	-13.5	2.26 V	253	45.4	15.1
8	11550.00	47.9 AV	54.0	-6.1	2.26 V	253	32.8	15.1

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

Mode D

802.11a

CHANNEL	TX Channel 36	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	65.9 PK	74.0	-8.1	1.39 H	314	62.3	3.6
2	5150.00	52.4 AV	54.0	-1.6	1.39 H	314	48.8	3.6
3	*5180.00	117.8 PK			1.80 H	316	78.3	39.5
4	*5180.00	108.1 AV			1.80 H	316	68.6	39.5
5	#10360.00	58.5 PK	74.0	-15.5	2.01 H	45	42.8	15.7
6	#10360.00	45.5 AV	54.0	-8.5	2.01 H	45	29.8	15.7
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	65.8 PK	74.0	-8.2	1.57 V	346	62.2	3.6
2	5150.00	51.1 AV	54.0	-2.9	1.57 V	346	47.5	3.6
3	*5180.00	119.0 PK			1.66 V	347	79.5	39.5
4	*5180.00	108.5 AV			1.66 V	347	69.0	39.5
5	#10360.00	58.8 PK	74.0	-15.2	1.96 V	34	43.1	15.7
6	#10360.00	45.9 AV	54.0	-8.1	1.96 V	34	30.2	15.7

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 40	DETECTOR	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz	FUNCTION	Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	69.2 PK	74.0	-4.8	1.38 H	313	65.6	3.6
2	5150.00	51.6 AV	54.0	-2.4	1.38 H	313	48.0	3.6
3	*5200.00	121.9 PK			1.69 H	311	82.4	39.5
4	*5200.00	111.9 AV			1.69 H	311	72.4	39.5
5	#10400.00	59.1 PK	74.0	-14.9	2.03 H	51	43.5	15.6
6	#10400.00	46.1 AV	54.0	-7.9	2.03 H	51	30.5	15.6
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	68.2 PK	74.0	-5.8	1.59 V	347	64.6	3.6
2	5150.00	50.4 AV	54.0	-3.6	1.59 V	347	46.8	3.6
3	*5200.00	122.1 PK			1.72 V	344	82.6	39.5
4	*5200.00	112.1 AV			1.72 V	344	72.6	39.5
5	#10400.00	59.3 PK	74.0	-14.7	1.84 V	288	43.7	15.6
6	#10400.00	46.3 AV	54.0	-7.7	1.84 V	288	30.7	15.6

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 48	DETECTOR	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz	FUNCTION	Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5240.00	122.3 PK			1.88 H	308	82.8	39.5
2	*5240.00	112.6 AV			1.88 H	308	73.1	39.5
3	5350.00	58.3 PK	74.0	-15.7	1.46 H	315	54.4	3.9
4	5350.00	48.3 AV	54.0	-5.7	1.46 H	315	44.4	3.9
5	#10480.00	60.5 PK	74.0	-13.5	2.09 H	37	43.7	16.8
6	#10480.00	47.5 AV	54.0	-6.5	2.09 H	37	30.7	16.8
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5240.00	122.6 PK			1.64 V	344	83.1	39.5
2	*5240.00	112.4 AV			1.64 V	344	72.9	39.5
3	5350.00	57.5 PK	74.0	-16.5	1.60 V	359	53.6	3.9
4	5350.00	46.2 AV	54.0	-7.8	1.60 V	359	42.3	3.9
5	#10480.00	60.7 PK	74.0	-13.3	1.89 V	299	43.9	16.8
6	#10480.00	47.8 AV	54.0	-6.2	1.89 V	299	31.0	16.8

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 149	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5647.20	56.6 PK	68.2	-11.6	1.80 H	312	52.3	4.3
2	*5745.00	118.2 PK			1.80 H	312	77.8	40.4
3	*5745.00	107.6 AV			1.80 H	312	67.2	40.4
4	#5959.20	58.0 PK	68.2	-10.2	1.80 H	312	52.9	5.1
5	11490.00	63.2 PK	74.0	-10.8	1.56 H	31	45.0	18.2
6	11490.00	50.3 AV	54.0	-3.7	1.56 H	31	32.1	18.2
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5611.20	46.7 PK	68.2	-21.5	2.79 V	342	42.4	4.3
2	*5745.00	120.1 PK			2.79 V	342	79.7	40.4
3	*5745.00	109.5 AV			2.79 V	342	69.1	40.4
4	#5980.00	49.0 PK	68.2	-19.2	2.79 V	342	43.8	5.2
5	11490.00	65.4 PK	74.0	-8.6	1.98 V	84	47.2	18.2
6	11490.00	52.8 AV	54.0	-1.2	1.98 V	84	34.6	18.2

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 157	DETECTOR	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz	FUNCTION	Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5636.80	56.0 PK	68.2	-12.2	1.82 H	310	51.7	4.3
2	*5785.00	117.4 PK			1.82 H	310	76.9	40.5
3	*5785.00	107.2 AV			1.82 H	310	66.7	40.5
4	#5964.80	58.1 PK	68.2	-10.1	1.82 H	310	52.9	5.2
5	11570.00	63.6 PK	74.0	-10.4	1.67 H	44	45.3	18.3
6	11570.00	50.6 AV	54.0	-3.4	1.67 H	44	32.3	18.3
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5623.20	56.3 PK	68.2	-11.9	2.53 V	342	52.0	4.3
2	*5785.00	119.7 PK			2.53 V	342	79.2	40.5
3	*5785.00	109.1 AV			2.53 V	342	68.6	40.5
4	#5933.60	58.4 PK	68.2	-9.8	2.53 V	342	53.4	5.0
5	11570.00	65.7 PK	74.0	-8.3	2.14 V	83	47.4	18.3
6	11570.00	52.9 AV	54.0	-1.1	2.14 V	83	34.6	18.3

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 165	DETECTOR	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz	FUNCTION	Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5614.40	56.5 PK	68.2	-11.7	1.81 H	311	52.2	4.3
2	*5825.00	117.1 PK			1.81 H	311	76.5	40.6
3	*5825.00	106.7 AV			1.81 H	311	66.1	40.6
4	#5939.20	57.9 PK	68.2	-10.3	1.81 H	311	52.9	5.0
5	11650.00	62.9 PK	74.0	-11.1	1.93 H	78	44.8	18.1
6	11650.00	50.3 AV	54.0	-3.7	1.93 H	78	32.2	18.1
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5632.00	57.3 PK	68.2	-10.9	2.51 V	327	53.0	4.3
2	*5825.00	119.4 PK			2.51 V	327	78.8	40.6
3	*5825.00	108.9 AV			2.51 V	327	68.3	40.6
4	#5964.00	59.4 PK	68.2	-8.8	2.51 V	327	54.2	5.2
5	11650.00	65.9 PK	74.0	-8.1	2.16 V	82	47.8	18.1
6	11650.00	52.3 AV	54.0	-1.7	2.16 V	82	34.2	18.1

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

802.11n (HT20)

CHANNEL	TX Channel 36	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	66.9 PK	74.0	-7.1	1.53 H	315	63.3	3.6
2	5150.00	52.4 AV	54.0	-1.6	1.53 H	315	48.8	3.6
3	*5180.00	118.8 PK			1.47 H	311	79.3	39.5
4	*5180.00	108.6 AV			1.47 H	311	69.1	39.5
5	#10360.00	59.1 PK	74.0	-14.9	2.05 H	39	43.4	15.7
6	#10360.00	46.1 AV	54.0	-7.9	2.05 H	39	30.4	15.7
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	68.0 PK	74.0	-6.0	1.48 V	347	64.4	3.6
2	5150.00	52.3 AV	54.0	-1.7	1.48 V	347	48.7	3.6
3	*5180.00	118.2 PK			1.74 V	343	78.7	39.5
4	*5180.00	107.9 AV			1.74 V	343	68.4	39.5
5	#10360.00	58.8 PK	74.0	-15.2	1.81 V	309	43.1	15.7
6	#10360.00	45.6 AV	54.0	-8.4	1.81 V	309	29.9	15.7

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 40	DETECTOR	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz	FUNCTION	Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5200.00	86.5 PK			1.55 H	155	82.9	3.6
2	*5200.00	76.2 AV			1.55 H	155	72.6	3.6
3	#10400.00	59.3 PK	74.0	-14.7	2.10 H	49	43.7	15.6
4	#10400.00	46.3 AV	54.0	-7.7	2.10 H	49	30.7	15.6
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5200.00	121.8 PK			1.70 V	349	82.3	39.5
2	*5200.00	111.4 AV			1.70 V	349	71.9	39.5
3	#10400.00	59.6 PK	74.0	-14.4	1.86 V	300	44.0	15.6
4	#10400.00	46.7 AV	54.0	-7.3	1.86 V	300	31.1	15.6

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 48	DETECTOR	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz	FUNCTION	Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5240.00	123.2 PK			1.51 H	312	83.7	39.5
2	*5240.00	113.4 AV			1.51 H	312	73.9	39.5
3	5350.00	57.6 PK	74.0	-16.4	1.60 H	355	53.7	3.9
4	5350.00	46.6 AV	54.0	-7.4	1.60 H	355	42.7	3.9
5	#10480.00	60.8 PK	74.0	-13.2	2.06 H	58	44.0	16.8
6	#10480.00	47.7 AV	54.0	-6.3	2.06 H	58	30.9	16.8
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5240.00	122.2 PK			1.67 V	345	82.7	39.5
2	*5240.00	111.8 AV			1.67 V	345	72.3	39.5
3	5350.00	58.1 PK	74.0	-15.9	1.70 V	345	54.2	3.9
4	5350.00	47.0 AV	54.0	-7.0	1.70 V	345	43.1	3.9
5	#10480.00	60.3 PK	74.0	-13.7	1.98 V	280	43.5	16.8
6	#10480.00	47.3 AV	54.0	-6.7	1.98 V	280	30.5	16.8

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 149	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5640.00	56.6 PK	68.2	-11.6	1.81 H	313	52.3	4.3
2	*5745.00	118.3 PK			1.81 H	313	77.9	40.4
3	*5745.00	107.9 AV			1.81 H	313	67.5	40.4
4	#5964.00	60.7 PK	68.2	-7.5	1.81 H	313	55.5	5.2
5	11490.00	61.6 PK	74.0	-12.4	1.58 H	222	43.4	18.2
6	11490.00	48.4 AV	54.0	-5.6	1.58 H	222	30.2	18.2
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5621.60	56.6 PK	68.2	-11.6	2.66 V	342	52.3	4.3
2	*5745.00	120.8 PK			2.66 V	342	80.4	40.4
3	*5745.00	109.9 AV			2.66 V	342	69.5	40.4
4	#5950.40	58.3 PK	68.2	-9.9	2.66 V	342	53.2	5.1
5	11490.00	66.8 PK	74.0	-7.2	2.01 V	83	48.6	18.2
6	11490.00	52.8 AV	54.0	-1.2	2.01 V	83	34.6	18.2

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 157	DETECTOR	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz	FUNCTION	Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5609.60	56.7 PK	68.2	-11.5	1.89 H	317	52.4	4.3
2	*5785.00	116.6 PK			1.89 H	317	76.1	40.5
3	*5785.00	106.2 AV			1.89 H	317	65.7	40.5
4	#5990.40	58.7 PK	68.2	-9.5	1.89 H	317	53.5	5.2
5	11570.00	61.2 PK	74.0	-12.8	2.16 H	76	42.9	18.3
6	11570.00	48.3 AV	54.0	-5.7	2.16 H	76	30.0	18.3
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5600.00	56.8 PK	68.2	-11.4	2.33 V	82	52.6	4.2
2	*5785.00	108.2 PK			2.33 V	82	67.7	40.5
3	*5785.00	97.2 AV			2.33 V	82	56.7	40.5
4	#5977.60	58.2 PK	68.2	-10.0	2.33 V	82	53.0	5.2
5	11570.00	66.5 PK	74.0	-7.5	2.12 V	81	48.2	18.3
6	11570.00	52.6 AV	54.0	-1.4	2.12 V	81	34.3	18.3

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 165	DETECTOR	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz	FUNCTION	Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5613.60	56.5 PK	68.2	-11.7	1.87 H	321	52.2	4.3
2	*5825.00	118.9 PK			1.87 H	321	78.3	40.6
3	*5825.00	108.3 AV			1.87 H	321	67.7	40.6
4	#5966.40	57.3 PK	68.2	-10.9	1.87 H	321	52.1	5.2
5	11650.00	61.6 PK	74.0	-12.4	2.21 H	345	43.5	18.1
6	11650.00	48.6 AV	54.0	-5.4	2.21 H	345	30.5	18.1
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5606.40	56.1 PK	68.2	-12.1	2.51 V	327	51.8	4.3
2	*5825.00	119.4 PK			2.51 V	327	78.8	40.6
3	*5825.00	108.9 AV			2.51 V	327	68.3	40.6
4	#5960.00	57.8 PK	68.2	-10.4	2.51 V	327	52.7	5.1
5	11650.00	65.9 PK	74.0	-8.1	2.16 V	82	47.8	18.1
6	11650.00	52.5 AV	54.0	-1.5	2.16 V	82	34.4	18.1

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

802.11n (HT40)

CHANNEL	TX Channel 38	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	65.2 PK	74.0	-8.8	1.91 H	307	61.6	3.6
2	5150.00	52.4 AV	54.0	-1.6	1.91 H	307	48.8	3.6
3	*5190.00	113.7 PK			1.94 H	306	74.2	39.5
4	*5190.00	104.2 AV			1.94 H	306	64.7	39.5
5	#10380.00	58.2 PK	74.0	-15.8	2.02 H	355	42.5	15.7
6	#10380.00	45.2 AV	54.0	-8.8	2.02 H	355	29.5	15.7
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	66.6 PK	74.0	-7.4	2.04 V	345	63.0	3.6
2	5150.00	52.5 AV	54.0	-1.5	2.04 V	345	48.9	3.6
3	*5190.00	112.7 PK			1.21 V	338	73.2	39.5
4	*5190.00	103.1 AV			1.21 V	338	63.6	39.5
5	#10380.00	58.3 PK	74.0	-15.7	2.22 V	322	42.6	15.7
6	#10380.00	45.1 AV	54.0	-8.9	2.22 V	322	29.4	15.7

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 46	DETECTOR	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz	FUNCTION	Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	65.4 PK	74.0	-8.6	1.93 H	303	61.8	3.6
2	5150.00	51.3 AV	54.0	-2.7	1.93 H	303	47.7	3.6
3	*5230.00	119.4 PK			1.94 H	303	79.9	39.5
4	*5230.00	109.8 AV			1.94 H	303	70.3	39.5
5	5350.00	59.4 PK	74.0	-14.6	2.22 H	323	55.5	3.9
6	5350.00	45.5 AV	54.0	-8.5	2.22 H	323	41.6	3.9
7	#10460.00	58.7 PK	74.0	-15.3	1.88 H	293	42.3	16.4
8	#10460.00	45.4 AV	54.0	-8.6	1.88 H	293	29.0	16.4
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	67.6 PK	74.0	-6.4	2.35 V	346	64.0	3.6
2	5150.00	52.3 AV	54.0	-1.7	2.35 V	346	48.7	3.6
3	*5230.00	118.7 PK			1.53 V	341	79.2	39.5
4	*5230.00	109.1 AV			1.53 V	341	69.6	39.5
5	5350.00	60.1 PK	74.0	-13.9	2.93 V	333	56.2	3.9
6	5350.00	45.6 AV	54.0	-8.4	2.93 V	333	41.7	3.9
7	#10460.00	58.6 PK	74.0	-15.4	2.22 V	293	42.2	16.4
8	#10460.00	45.2 AV	54.0	-8.8	2.22 V	293	28.8	16.4

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 151	DETECTOR	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz	FUNCTION	Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5646.40	57.1 PK	68.2	-11.1	2.11 H	322	52.8	4.3
2	#5650.00	58.7 PK	68.2	-9.5	2.10 H	355	54.4	4.3
3	*5755.00	115.9 PK			2.11 H	322	75.5	40.4
4	*5755.00	106.1 AV			2.11 H	322	65.7	40.4
5	#5948.80	57.6 PK	68.2	-10.6	2.11 H	322	52.5	5.1
6	11510.00	61.4 PK	74.0	-12.6	1.79 H	301	43.2	18.2
7	11510.00	48.7 AV	54.0	-5.3	1.79 H	301	30.5	18.2
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5617.60	57.5 PK	68.2	-10.7	2.13 V	353	53.2	4.3
2	#5650.00	59.6 PK	68.2	-8.6	2.10 V	352	55.3	4.3
3	*5755.00	117.2 PK			2.13 V	353	76.8	40.4
4	*5755.00	108.1 AV			2.13 V	353	67.7	40.4
5	#5966.40	57.7 PK	68.2	-10.5	2.13 V	353	52.5	5.2
6	11510.00	65.8 PK	74.0	-8.2	2.18 V	78	47.6	18.2
7	11510.00	52.7 AV	54.0	-1.3	2.18 V	78	34.5	18.2

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 159	DETECTOR	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz	FUNCTION	Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5635.20	55.6 PK	68.2	-12.6	1.96 H	311	51.3	4.3
2	*5795.00	117.2 PK			1.96 H	311	76.7	40.5
3	*5795.00	107.6 AV			1.96 H	311	67.1	40.5
4	#5925.00	58.7 PK	68.2	-9.5	2.10 H	304	53.8	4.9
5	#5939.20	59.5 PK	68.2	-8.7	1.96 H	311	54.5	5.0
6	11590.00	62.1 PK	74.0	-11.9	1.66 H	0	43.9	18.2
7	11590.00	49.3 AV	54.0	-4.7	1.66 H	0	31.1	18.2
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5644.80	55.5 PK	68.2	-12.7	2.07 V	353	51.2	4.3
2	*5795.00	116.9 PK			2.07 V	353	76.4	40.5
3	*5795.00	107.3 AV			2.07 V	353	66.8	40.5
4	#5925.00	59.4 PK	68.2	-8.8	1.90 V	346	54.5	4.9
5	#5948.00	58.7 PK	68.2	-9.5	2.07 V	353	53.6	5.1
6	11590.00	64.6 PK	74.0	-9.4	2.13 V	80	46.4	18.2
7	11590.00	52.5 AV	54.0	-1.5	2.13 V	80	34.3	18.2

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

802.11ac (VHT80)

CHANNEL	TX Channel 42	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	65.6 PK	74.0	-8.4	1.83 H	303	62.0	3.6
2	5150.00	52.3 AV	54.0	-1.7	1.83 H	303	48.7	3.6
3	*5210.00	111.1 PK			1.96 H	302	71.6	39.5
4	*5210.00	100.9 AV			1.96 H	302	61.4	39.5
5	5350.00	59.9 PK	74.0	-14.1	2.03 H	331	56.0	3.9
6	5350.00	47.0 AV	54.0	-7.0	2.03 H	331	43.1	3.9
7	#10420.00	58.3 PK	74.0	-15.7	1.78 H	311	42.4	15.9
8	#10420.00	45.2 AV	54.0	-8.8	1.78 H	311	29.3	15.9
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	66.0 PK	74.0	-8.0	1.96 V	338	62.4	3.6
2	5150.00	52.8 AV	54.0	-1.2	1.96 V	338	49.2	3.6
3	*5210.00	109.7 PK			1.95 V	339	70.2	39.5
4	*5210.00	99.9 AV			1.95 V	339	60.4	39.5
5	5350.00	59.2 PK	74.0	-14.8	2.22 V	319	55.3	3.9
6	5350.00	46.2 AV	54.0	-7.8	2.22 V	319	42.3	3.9
7	#10420.00	59.3 PK	74.0	-14.7	2.43 V	293	43.4	15.9
8	#10420.00	45.3 AV	54.0	-8.7	2.43 V	293	29.4	15.9

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 155	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5647.20	64.5 PK	68.2	-3.7	2.09 H	312	60.2	4.3
2	#5650.00	66.6 PK	68.2	-1.6	2.15 H	318	62.3	4.3
3	*5775.00	112.9 PK			2.09 H	313	72.4	40.5
4	*5775.00	103.2 AV			2.09 H	313	62.7	40.5
5	#5925.00	65.4 PK	68.2	-2.8	2.25 H	0	60.5	4.9
6	#5928.00	62.3 PK	68.2	-5.9	2.09 H	312	57.4	4.9
7	11550.00	61.0 PK	74.0	-13.0	1.90 H	96	42.7	18.3
8	11550.00	48.1 AV	54.0	-5.9	1.90 H	96	29.8	18.3
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5620.80	61.1 PK	68.2	-7.1	2.04 V	346	56.8	4.3
2	#5650.00	66.6 PK	68.2	-1.6	2.63 V	338	62.3	4.3
3	*5775.00	112.6 PK			2.04 V	346	72.1	40.5
4	*5775.00	103.0 AV			2.04 V	346	62.5	40.5
5	#5925.00	66.1 PK	68.2	-2.1	2.32 V	354	61.2	4.9
6	#5938.40	62.2 PK	68.2	-6.0	2.04 V	346	57.2	5.0
7	11550.00	62.2 PK	74.0	-11.8	2.24 V	80	43.9	18.3
8	11550.00	49.5 AV	54.0	-4.5	2.24 V	80	31.2	18.3

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

Mode E

802.11a

CHANNEL	TX Channel 36	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	66.6 PK	74.0	-7.4	1.76 H	357	63.0	3.6
2	5150.00	52.4 AV	54.0	-1.6	1.76 H	357	48.8	3.6
3	*5180.00	118.9 PK			1.62 H	352	79.4	39.5
4	*5180.00	107.5 AV			1.62 H	352	68.0	39.5
5	#10360.00	59.9 PK	74.0	-14.1	1.89 H	323	44.2	15.7
6	#10360.00	46.6 AV	54.0	-7.4	1.89 H	323	30.9	15.7
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	64.2 PK	74.0	-9.8	1.29 V	352	60.6	3.6
2	5150.00	50.8 AV	54.0	-3.2	1.29 V	352	47.2	3.6
3	*5180.00	118.2 PK			1.58 V	350	78.7	39.5
4	*5180.00	107.3 AV			1.58 V	350	67.8	39.5
5	#10360.00	59.1 PK	74.0	-14.9	1.66 V	293	43.4	15.7
6	#10360.00	46.7 AV	54.0	-7.3	1.66 V	293	31.0	15.7

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 40	DETECTOR	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz	FUNCTION	Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	63.8 PK	74.0	-10.2	1.70 H	349	60.2	3.6
2	5150.00	48.2 AV	54.0	-5.8	1.70 H	349	44.6	3.6
3	*5200.00	122.6 PK			1.63 H	349	83.1	39.5
4	*5200.00	111.5 AV			1.63 H	349	72.0	39.5
5	#10400.00	58.1 PK	74.0	-15.9	1.99 H	321	42.5	15.6
6	#10400.00	44.9 AV	54.0	-9.1	1.99 H	321	29.3	15.6
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	63.2 PK	74.0	-10.8	1.37 V	357	59.6	3.6
2	5150.00	48.1 AV	54.0	-5.9	1.37 V	357	44.5	3.6
3	*5200.00	120.9 PK			1.19 V	6	81.4	39.5
4	*5200.00	110.2 AV			1.19 V	6	70.7	39.5
5	#10400.00	58.2 PK	74.0	-15.8	1.66 V	333	42.6	15.6
6	#10400.00	44.7 AV	54.0	-9.3	1.66 V	333	29.1	15.6

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 48	DETECTOR	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz	FUNCTION	Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5240.00	122.3 PK			1.93 H	350	82.8	39.5
2	*5240.00	111.5 AV			1.93 H	350	72.0	39.5
3	5350.00	58.5 PK	74.0	-15.5	1.73 H	333	54.6	3.9
4	5350.00	46.1 AV	54.0	-7.9	1.73 H	333	42.2	3.9
5	#10480.00	58.6 PK	74.0	-15.4	1.76 H	355	41.8	16.8
6	#10480.00	45.6 AV	54.0	-8.4	1.76 H	355	28.8	16.8
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5240.00	122.4 PK			1.56 V	354	82.9	39.5
2	*5240.00	111.4 AV			1.56 V	354	71.9	39.5
3	5350.00	58.8 PK	74.0	-15.2	1.46 V	349	54.9	3.9
4	5350.00	45.4 AV	54.0	-8.6	1.46 V	349	41.5	3.9
5	#10480.00	58.9 PK	74.0	-15.1	1.77 V	324	42.1	16.8
6	#10480.00	45.6 AV	54.0	-8.4	1.77 V	324	28.8	16.8

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 149	DETECTOR	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz	FUNCTION	Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5621.60	63.0 PK	68.2	-5.2	2.11 H	358	60.5	2.5
2	*5745.00	120.3 PK			2.11 H	358	79.6	40.7
3	*5745.00	110.1 AV			2.11 H	358	69.4	40.7
4	#5945.60	64.5 PK	68.2	-3.7	2.11 H	358	61.3	3.2
5	11490.00	60.7 PK	74.0	-13.3	2.08 H	82	45.7	15.0
6	11490.00	47.3 AV	54.0	-6.7	2.08 H	82	32.3	15.0
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5621.60	63.1 PK	68.2	-5.1	2.35 V	333	60.6	2.5
2	*5745.00	120.1 PK			2.35 V	333	79.4	40.7
3	*5745.00	109.5 AV			2.35 V	333	68.8	40.7
4	#5932.00	62.5 PK	68.2	-5.7	2.35 V	333	59.3	3.2
5	11490.00	64.7 PK	74.0	-9.3	2.26 V	91	49.7	15.0
6	11490.00	52.3 AV	54.0	-1.7	2.26 V	91	37.3	15.0

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 157	DETECTOR	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz	FUNCTION	Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5627.20	57.1 PK	68.2	-11.1	2.18 H	12	54.6	2.5
2	*5785.00	119.8 PK			2.18 H	12	79.0	40.8
3	*5785.00	109.5 AV			2.18 H	12	68.7	40.8
4	#5928.80	58.1 PK	68.2	-10.1	2.18 H	12	55.0	3.1
5	11570.00	59.8 PK	74.0	-14.2	2.23 H	86	44.9	14.9
6	11570.00	47.1 AV	54.0	-6.9	2.23 H	86	32.2	14.9
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5631.20	62.0 PK	68.2	-6.2	2.10 V	332	59.5	2.5
2	*5785.00	118.7 PK			2.10 V	332	77.9	40.8
3	*5785.00	108.9 AV			2.10 V	332	68.1	40.8
4	#5936.00	63.5 PK	68.2	-4.7	2.10 V	332	60.3	3.2
5	11570.00	65.0 PK	74.0	-9.0	2.26 V	84	50.1	14.9
6	11570.00	52.7 AV	54.0	-1.3	2.26 V	84	37.8	14.9

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 165	DETECTOR	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz	FUNCTION	Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5617.60	62.5 PK	68.2	-5.7	1.62 H	2	60.0	2.5
2	*5825.00	120.6 PK			1.62 H	2	79.7	40.9
3	*5825.00	109.8 AV			1.62 H	2	68.9	40.9
4	#5928.80	64.9 PK	68.2	-3.3	1.62 H	2	61.8	3.1
5	11650.00	60.3 PK	74.0	-13.7	1.63 H	208	45.4	14.9
6	11650.00	46.9 AV	54.0	-7.1	1.63 H	208	32.0	14.9
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5634.40	62.5 PK	68.2	-5.7	2.14 V	333	60.0	2.5
2	*5825.00	119.6 PK			2.14 V	333	78.7	40.9
3	*5825.00	109.4 AV			2.14 V	333	68.5	40.9
4	#5956.80	63.2 PK	68.2	-5.0	2.14 V	333	60.0	3.2
5	11650.00	65.0 PK	74.0	-9.0	2.25 V	85	50.1	14.9
6	11650.00	52.4 AV	54.0	-1.6	2.25 V	85	37.5	14.9

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

802.11n (HT20)

CHANNEL	TX Channel 36	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	67.2 PK	74.0	-6.8	1.93 H	347	63.6	3.6
2	5150.00	52.3 AV	54.0	-1.7	1.93 H	347	48.7	3.6
3	*5180.00	119.0 PK			1.61 H	351	79.5	39.5
4	*5180.00	107.7 AV			1.61 H	351	68.2	39.5
5	#10360.00	59.2 PK	74.0	-14.8	2.02 H	334	43.5	15.7
6	#10360.00	46.6 AV	54.0	-7.4	2.02 H	334	30.9	15.7
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	64.0 PK	74.0	-10.0	1.29 V	353	60.4	3.6
2	5150.00	49.2 AV	54.0	-4.8	1.29 V	353	45.6	3.6
3	*5180.00	118.3 PK			1.12 V	346	78.8	39.5
4	*5180.00	107.1 AV			1.12 V	346	67.6	39.5
5	#10360.00	58.3 PK	74.0	-15.7	1.67 V	311	42.6	15.7
6	#10360.00	44.7 AV	54.0	-9.3	1.67 V	311	29.0	15.7

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 40	DETECTOR	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz	FUNCTION	Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	64.3 PK	74.0	-9.7	1.60 H	344	60.7	3.6
2	5150.00	48.4 AV	54.0	-5.6	1.60 H	344	44.8	3.6
3	*5200.00	122.4 PK			1.75 H	352	82.9	39.5
4	*5200.00	111.2 AV			1.75 H	352	71.7	39.5
5	#10400.00	58.0 PK	74.0	-16.0	1.77 H	331	42.4	15.6
6	#10400.00	44.8 AV	54.0	-9.2	1.77 H	331	29.2	15.6
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	65.6 PK	74.0	-8.4	1.52 V	347	62.0	3.6
2	5150.00	49.1 AV	54.0	-4.9	1.52 V	347	45.5	3.6
3	*5200.00	121.6 PK			1.38 V	345	82.1	39.5
4	*5200.00	110.7 AV			1.38 V	345	71.2	39.5
5	#10400.00	58.3 PK	74.0	-15.7	1.61 V	339	42.7	15.6
6	#10400.00	44.8 AV	54.0	-9.2	1.61 V	339	29.2	15.6

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 48	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5240.00	122.0 PK			1.70 H	347	82.5	39.5
2	*5240.00	111.4 AV			1.70 H	347	71.9	39.5
3	5350.00	59.0 PK	74.0	-15.0	1.59 H	345	55.1	3.9
4	5350.00	46.1 AV	54.0	-7.9	1.59 H	345	42.2	3.9
5	#10480.00	58.3 PK	74.0	-15.7	1.66 H	332	41.5	16.8
6	#10480.00	45.5 AV	54.0	-8.5	1.66 H	332	28.7	16.8
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5240.00	121.7 PK			1.75 V	354	82.2	39.5
2	*5240.00	110.8 AV			1.75 V	354	71.3	39.5
3	5350.00	58.6 PK	74.0	-15.4	1.49 V	346	54.7	3.9
4	5350.00	44.9 AV	54.0	-9.1	1.49 V	346	41.0	3.9
5	#10480.00	58.4 PK	74.0	-15.6	1.88 V	299	41.6	16.8
6	#10480.00	45.4 AV	54.0	-8.6	1.88 V	299	28.6	16.8

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 149	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5615.20	58.4 PK	68.2	-9.8	1.74 H	342	55.9	2.5
2	*5745.00	121.4 PK			1.74 H	342	80.7	40.7
3	*5745.00	110.7 AV			1.74 H	342	70.0	40.7
4	#5950.40	59.5 PK	68.2	-8.7	1.74 H	342	56.3	3.2
5	11490.00	60.1 PK	74.0	-13.9	1.52 H	211	45.1	15.0
6	11490.00	47.3 AV	54.0	-6.7	1.52 H	211	32.3	15.0
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5634.40	63.6 PK	68.2	-4.6	1.93 V	352	61.1	2.5
2	*5745.00	120.4 PK			1.93 V	352	79.7	40.7
3	*5745.00	109.6 AV			1.93 V	352	68.9	40.7
4	#5960.00	62.8 PK	68.2	-5.4	1.93 V	352	59.6	3.2
5	11490.00	65.2 PK	74.0	-8.8	2.72 V	84	50.2	15.0
6	11490.00	51.7 AV	54.0	-2.3	2.72 V	84	36.7	15.0

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 157	DETECTOR	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz	FUNCTION	Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5641.60	58.0 PK	68.2	-10.2	2.10 H	342	55.5	2.5
2	*5785.00	121.5 PK			2.10 H	342	80.7	40.8
3	*5785.00	110.2 AV			2.10 H	342	69.4	40.8
4	#5930.40	59.8 PK	68.2	-8.4	2.10 H	342	56.6	3.2
5	11570.00	60.2 PK	74.0	-13.8	1.63 H	201	45.3	14.9
6	11570.00	47.3 AV	54.0	-6.7	1.63 H	201	32.4	14.9
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5628.80	62.3 PK	68.2	-5.9	1.96 V	350	59.8	2.5
2	*5785.00	120.3 PK			1.96 V	350	79.5	40.8
3	*5785.00	109.2 AV			1.96 V	350	68.4	40.8
4	#5949.60	63.4 PK	68.2	-4.8	1.96 V	350	60.2	3.2
5	11570.00	65.4 PK	74.0	-8.6	2.19 V	86	50.5	14.9
6	11570.00	52.3 AV	54.0	-1.7	2.19 V	86	37.4	14.9

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 165	DETECTOR	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz	FUNCTION	Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5648.80	57.9 PK	68.2	-10.3	2.11 H	2	55.4	2.5
2	*5825.00	121.7 PK			2.11 H	2	80.8	40.9
3	*5825.00	110.7 AV			2.11 H	2	69.8	40.9
4	#5966.40	59.5 PK	68.2	-8.7	2.11 H	2	56.2	3.3
5	11650.00	60.8 PK	74.0	-13.2	1.87 H	232	45.9	14.9
6	11650.00	48.1 AV	54.0	-5.9	1.87 H	232	33.2	14.9
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5624.80	62.7 PK	68.2	-5.5	1.36 V	352	60.2	2.5
2	*5825.00	120.9 PK			1.36 V	352	80.0	40.9
3	*5825.00	109.9 AV			1.36 V	352	69.0	40.9
4	#5932.00	63.8 PK	68.2	-4.4	1.36 V	352	60.6	3.2
5	11650.00	66.1 PK	74.0	-7.9	2.33 V	93	51.2	14.9
6	11650.00	52.3 AV	54.0	-1.7	2.33 V	93	37.4	14.9

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

802.11n (HT40)

CHANNEL	TX Channel 38	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	65.0 PK	74.0	-9.0	1.73 H	359	61.4	3.6
2	5150.00	52.2 AV	54.0	-1.8	1.73 H	359	48.6	3.6
3	*5190.00	113.1 PK			1.46 H	350	73.6	39.5
4	*5190.00	102.7 AV			1.46 H	350	63.2	39.5
5	#10380.00	57.7 PK	74.0	-16.3	1.88 H	346	42.0	15.7
6	#10380.00	44.7 AV	54.0	-9.3	1.88 H	346	29.0	15.7
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	64.3 PK	74.0	-9.7	1.72 V	349	60.7	3.6
2	5150.00	51.1 AV	54.0	-2.9	1.72 V	349	47.5	3.6
3	*5190.00	112.1 PK			1.61 V	356	72.6	39.5
4	*5190.00	102.5 AV			1.61 V	356	63.0	39.5
5	#10380.00	58.8 PK	74.0	-15.2	1.69 V	319	43.1	15.7
6	#10380.00	45.0 AV	54.0	-9.0	1.69 V	319	29.3	15.7

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 46	DETECTOR	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz	FUNCTION	Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	66.2 PK	74.0	-7.8	1.70 H	352	62.6	3.6
2	5150.00	52.2 AV	54.0	-1.8	1.70 H	352	48.6	3.6
3	*5230.00	118.6 PK			1.91 H	350	79.1	39.5
4	*5230.00	108.7 AV			1.91 H	350	69.2	39.5
5	5350.00	55.2 PK	74.0	-18.8	1.90 H	310	51.3	3.9
6	5350.00	44.4 AV	54.0	-9.6	1.90 H	310	40.5	3.9
7	#10460.00	59.1 PK	74.0	-14.9	1.87 H	336	42.7	16.4
8	#10460.00	44.9 AV	54.0	-9.1	1.87 H	336	28.5	16.4
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	67.8 PK	74.0	-6.2	1.74 V	351	64.2	3.6
2	5150.00	51.8 AV	54.0	-2.2	1.74 V	351	48.2	3.6
3	*5230.00	117.8 PK			1.57 V	355	78.3	39.5
4	*5230.00	108.5 AV			1.57 V	355	69.0	39.5
5	5350.00	54.8 PK	74.0	-19.2	1.55 V	340	50.9	3.9
6	5350.00	44.0 AV	54.0	-10.0	1.55 V	340	40.1	3.9
7	#10460.00	58.5 PK	74.0	-15.5	1.79 V	328	42.1	16.4
8	#10460.00	45.3 AV	54.0	-8.7	1.79 V	328	28.9	16.4

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 151	DETECTOR	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz	FUNCTION	Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5649.60	59.7 PK	68.2	-8.5	1.97 H	343	57.2	2.5
2	#5650.00	60.0 PK	68.2	-8.2	1.88 H	355	57.5	2.5
3	*5755.00	117.9 PK			1.97 H	343	77.2	40.7
4	*5755.00	107.9 AV			1.97 H	343	67.2	40.7
5	#5969.60	59.6 PK	68.2	-8.6	1.97 H	343	56.3	3.3
6	11510.00	60.4 PK	74.0	-13.6	1.88 H	224	45.3	15.1
7	11510.00	47.0 AV	54.0	-7.0	1.88 H	224	31.9	15.1
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5645.60	58.5 PK	68.2	-9.7	1.19 V	346	56.0	2.5
2	#5650.00	59.5 PK	68.2	-8.7	1.25 V	354	57.0	2.5
3	*5755.00	117.3 PK			1.19 V	346	76.6	40.7
4	*5755.00	107.1 AV			1.19 V	346	66.4	40.7
5	#5931.20	56.9 PK	68.2	-11.3	1.19 V	346	53.7	3.2
6	11510.00	64.1 PK	74.0	-9.9	1.99 V	84	49.0	15.1
7	11510.00	51.4 AV	54.0	-2.6	1.99 V	84	36.3	15.1

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 159	DETECTOR	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz	FUNCTION	Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5632.00	58.4 PK	68.2	-9.8	2.02 H	3	55.9	2.5
2	*5795.00	117.3 PK			2.02 H	3	76.5	40.8
3	*5795.00	107.9 AV			2.02 H	3	67.1	40.8
4	#5925.00	58.4 PK	68.2	-9.8	1.99 H	5	55.3	3.1
5	#5931.20	61.2 PK	68.2	-7.0	2.02 H	3	58.0	3.2
6	11590.00	60.2 PK	74.0	-13.8	1.48 H	237	45.3	14.9
7	11590.00	47.2 AV	54.0	-6.8	1.48 H	237	32.3	14.9
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5642.40	60.2 PK	68.2	-8.0	1.97 V	342	57.7	2.5
2	*5795.00	117.0 PK			1.97 V	342	76.2	40.8
3	*5795.00	107.4 AV			1.97 V	342	66.6	40.8
4	#5925.00	61.5 PK	68.2	-6.7	1.22 V	346	58.4	3.1
5	#5943.20	62.4 PK	68.2	-5.8	1.97 V	342	59.2	3.2
6	11590.00	63.3 PK	74.0	-10.7	2.01 V	86	48.4	14.9
7	11590.00	50.7 AV	54.0	-3.3	2.01 V	86	35.8	14.9

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

802.11ac (VHT80)

CHANNEL	TX Channel 42	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	64.8 PK	74.0	-9.2	1.77 H	353	61.2	3.6
2	5150.00	52.4 AV	54.0	-1.6	1.77 H	353	48.8	3.6
3	*5210.00	109.7 PK			1.88 H	350	70.2	39.5
4	*5210.00	99.5 AV			1.88 H	350	60.0	39.5
5	5350.00	61.4 PK	74.0	-12.6	1.88 H	344	57.5	3.9
6	5350.00	48.4 AV	54.0	-5.6	1.88 H	344	44.5	3.9
7	#10420.00	58.4 PK	74.0	-15.6	1.92 H	339	42.5	15.9
8	#10420.00	45.1 AV	54.0	-8.9	1.92 H	339	29.2	15.9
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	65.0 PK	74.0	-9.0	1.58 V	348	61.4	3.6
2	5150.00	51.5 AV	54.0	-2.5	1.58 V	348	47.9	3.6
3	*5210.00	108.7 PK			1.17 V	2	69.2	39.5
4	*5210.00	98.7 AV			1.17 V	2	59.2	39.5
5	5350.00	61.1 PK	74.0	-12.9	1.77 V	356	57.2	3.9
6	5350.00	48.2 AV	54.0	-5.8	1.77 V	356	44.3	3.9
7	#10420.00	58.0 PK	74.0	-16.0	1.59 V	311	42.1	15.9
8	#10420.00	45.2 AV	54.0	-8.8	1.59 V	311	29.3	15.9

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 155	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5632.00	63.1 PK	68.2	-5.1	1.81 H	357	60.6	2.5
2	#5650.00	66.0 PK	68.2	-2.2	1.89 H	350	63.5	2.5
3	*5775.00	112.4 PK			1.81 H	357	71.6	40.8
4	*5775.00	102.5 AV			1.81 H	357	61.7	40.8
5	#5925.00	66.5 PK	68.2	-1.7	1.51 H	3	63.4	3.1
6	#5932.80	64.2 PK	68.2	-4.0	1.81 H	357	61.0	3.2
7	11550.00	61.0 PK	74.0	-13.0	1.63 H	227	45.9	15.1
8	11550.00	47.2 AV	54.0	-6.8	1.63 H	227	32.1	15.1
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5643.20	63.2 PK	68.2	-5.0	1.58 V	351	60.7	2.5
2	#5650.00	64.9 PK	68.2	-3.3	1.96 V	352	62.4	2.5
3	*5775.00	110.9 PK			1.58 V	351	70.1	40.8
4	*5775.00	100.9 AV			1.58 V	351	60.1	40.8
5	#5925.00	62.4 PK	68.2	-5.8	1.34 V	350	59.3	3.1
6	#5928.80	62.6 PK	68.2	-5.6	1.58 V	351	59.5	3.1
7	11550.00	61.1 PK	74.0	-12.9	2.35 V	80	46.0	15.1
8	11550.00	47.8 AV	54.0	-6.2	2.35 V	80	32.7	15.1

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

Below 1GHz Worst-Case Data: 802.11a

Mode A

CHANNEL	TX Channel 165	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	9kHz ~ 1GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	57.12	27.2 QP	40.0	-12.8	1.99 H	220	41.8	-14.6
2	97.95	28.1 QP	43.5	-15.4	1.99 H	192	46.9	-18.8
3	162.11	29.6 QP	43.5	-13.9	1.00 H	219	43.5	-13.9
4	278.77	19.4 QP	46.0	-26.6	1.00 H	97	32.5	-13.1
5	383.76	23.2 QP	46.0	-22.8	1.49 H	16	34.7	-11.5
6	729.84	30.4 QP	46.0	-15.6	1.49 H	110	35.8	-5.4
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	34.75	36.9 QP	40.0	-3.1	1.00 V	162	52.9	-16.0
2	61.01	30.5 QP	40.0	-9.5	1.00 V	4	45.5	-15.0
3	162.11	31.0 QP	43.5	-12.5	1.00 V	123	44.9	-13.9
4	383.76	21.8 QP	46.0	-24.2	1.00 V	207	33.3	-11.5
5	595.69	28.5 QP	46.0	-17.5	1.00 V	57	36.1	-7.6
6	706.51	25.4 QP	46.0	-20.6	1.00 V	23	31.4	-6.0

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value

Mode B

CHANNEL	TX Channel 165	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	9kHz ~ 1GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	57.12	27.8 QP	40.0	-12.2	1.99 H	223	42.4	-14.6
2	88.23	25.5 QP	43.5	-18.0	1.99 H	280	45.3	-19.8
3	173.78	26.9 QP	43.5	-16.6	1.49 H	270	41.3	-14.4
4	249.60	21.8 QP	46.0	-24.2	1.00 H	145	36.4	-14.6
5	383.76	24.5 QP	46.0	-21.5	1.00 H	192	36.0	-11.5
6	595.69	31.7 QP	46.0	-14.3	1.49 H	44	39.3	-7.6
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	35.35	37.4 QP	40.0	-2.6	1.00 V	167	53.3	-15.9
2	62.95	34.3 QP	40.0	-5.7	1.00 V	41	49.5	-15.2
3	142.67	25.6 QP	43.5	-17.9	1.00 V	184	39.8	-14.2
4	383.76	22.4 QP	46.0	-23.6	1.49 V	259	33.9	-11.5
5	591.80	32.1 QP	46.0	-13.9	1.49 V	180	39.8	-7.7
6	937.88	28.6 QP	46.0	-17.4	2.00 V	94	31.0	-2.4

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value

Mode C

CHANNEL	TX Channel 149	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	9kHz ~ 1GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	70.73	26.6 QP	40.0	-13.4	1.50 H	16	42.9	-16.3
2	125.17	24.5 QP	43.5	-19.0	1.50 H	50	40.3	-15.8
3	171.83	25.8 QP	43.5	-17.7	1.50 H	68	40.1	-14.3
4	278.77	20.9 QP	46.0	-25.1	1.00 H	87	34.0	-13.1
5	603.47	31.9 QP	46.0	-14.1	1.50 H	16	39.3	-7.4
6	679.29	28.8 QP	46.0	-17.2	1.00 H	14	35.2	-6.4
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	59.06	32.9 QP	40.0	-7.1	1.00 V	10	47.5	-14.6
2	125.17	26.5 QP	43.5	-17.0	1.00 V	132	42.3	-15.8
3	212.66	16.4 QP	43.5	-27.1	1.50 V	33	32.8	-16.4
4	383.76	22.9 QP	46.0	-23.1	1.50 V	205	34.3	-11.1
5	617.08	29.7 QP	46.0	-16.3	1.50 V	287	36.9	-7.2
6	832.89	25.9 QP	46.0	-20.1	1.50 V	33	29.8	-3.9

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value

Mode D

CHANNEL	TX Channel 149	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	9kHz ~ 1GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	57.12	25.8 QP	40.0	-14.2	1.50 H	115	40.3	-14.5
2	97.95	27.2 QP	43.5	-16.3	1.50 H	266	46.0	-18.8
3	154.33	29.5 QP	43.5	-14.0	1.50 H	134	43.4	-13.9
4	282.66	18.2 QP	46.0	-27.8	1.00 H	115	31.2	-13.0
5	383.76	24.5 QP	46.0	-21.5	1.00 H	209	36.0	-11.5
6	652.07	30.6 QP	46.0	-15.4	1.00 H	127	37.4	-6.8
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	59.06	35.8 QP	40.0	-4.2	1.00 V	40	50.5	-14.7
2	90.17	29.7 QP	43.5	-13.8	1.00 V	310	49.3	-19.6
3	152.39	24.9 QP	43.5	-18.6	1.00 V	150	38.9	-14.0
4	383.76	26.9 QP	46.0	-19.1	1.49 V	95	38.4	-11.5
5	609.30	32.4 QP	46.0	-13.6	1.50 V	82	39.8	-7.4
6	809.56	27.4 QP	46.0	-18.6	1.00 V	207	31.6	-4.2

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value

Mode E

CHANNEL	TX Channel 149	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	9kHz ~ 1GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	78.51	33.8 QP	40.0	-6.2	1.99 H	192	52.0	-18.2
2	138.78	27.5 QP	43.5	-16.0	1.99 H	124	42.0	-14.5
3	201.00	25.4 QP	43.5	-18.1	1.49 H	146	42.1	-16.7
4	265.16	20.2 QP	46.0	-25.8	1.00 H	111	34.1	-13.9
5	383.76	24.8 QP	46.0	-21.2	1.99 H	110	36.3	-11.5
6	617.08	32.6 QP	46.0	-13.4	1.00 H	114	39.7	-7.1
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	33.79	38.5 QP	40.0	-1.5	1.01 V	85	54.5	-16.0
2	61.01	34.3 QP	40.0	-5.7	1.51 V	280	49.3	-15.0
3	169.89	23.7 QP	43.5	-19.8	1.01 V	2	37.9	-14.2
4	214.61	23.0 QP	43.5	-20.5	1.01 V	122	39.2	-16.2
5	383.76	26.4 QP	46.0	-19.6	1.01 V	134	37.9	-11.5
6	617.08	32.3 QP	46.0	-13.7	1.51 V	117	39.4	-7.1

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value

4.2 Conducted Emission Measurement

4.2.1 Limits of Conducted Emission Measurement

Frequency (MHz)	Conducted Limit (dBuV)	
	Quasi-peak	Average
0.15 - 0.5	66 - 56	56 - 46
0.50 - 5.0	56	46
5.0 - 30.0	60	50

Note: 1. The lower limit shall apply at the transition frequencies.

2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

4.2.2 Test Instruments

Description & Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Due
Test Receiver ROHDE & SCHWARZ	ESCS 30	100288	Aug. 17, 2017	Aug. 16, 2018
RF signal cable (with 10dB PAD) Woken	5D-FB	Cable-cond2-01	Sep. 08, 2017	Sep. 07, 2018
LISN ROHDE & SCHWARZ (EUT)	ESH2-Z5	100100	Jan. 17, 2017	Jan. 16, 2018
LISN ROHDE & SCHWARZ (Peripheral)	ESH3-Z5	100312	Aug. 02, 2017	Aug. 01, 2018
Software ADT	BV ADT_Cond_ V7.3.7.3	NA	NA	NA

Note: 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

2. The test was performed in HwaYa Shielded Room 2.

3. The VCCI Site Registration No. is C-2047.

4.2.3 Test Procedures

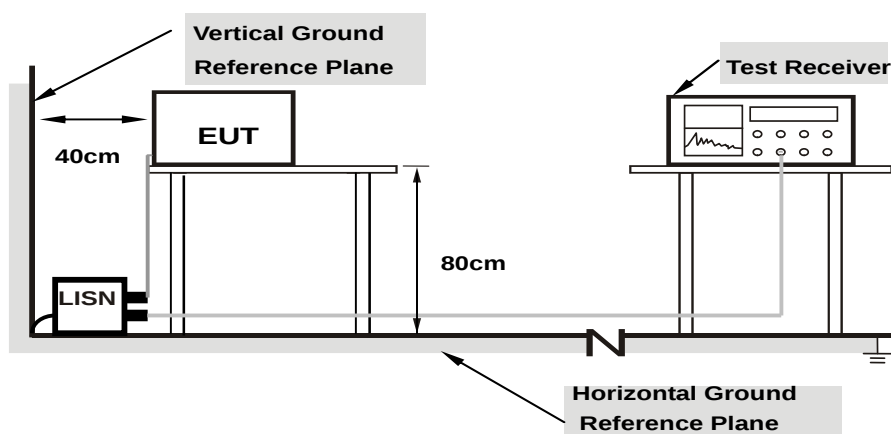
- The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling impedance for the measuring instrument.
- Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
- The frequency range from 150kHz to 30MHz was searched. Emission levels under (Limit - 20dB) was not recorded.

NOTE: The resolution bandwidth and video bandwidth of test receiver is 9kHz for quasi-peak detection (QP) and average detection (AV) at frequency 0.15MHz-30MHz.

4.2.4 Deviation from Test Standard

No deviation.

4.2.5 Test Setup



Note: 1.Support units were connected to second LISN.

For the actual test configuration, please refer to the attached file (Test Setup Photo).

4.2.6 EUT Operating Conditions

Same as 4.1.6.

4.2.7 Test Results

Worst-case data: 802.11a

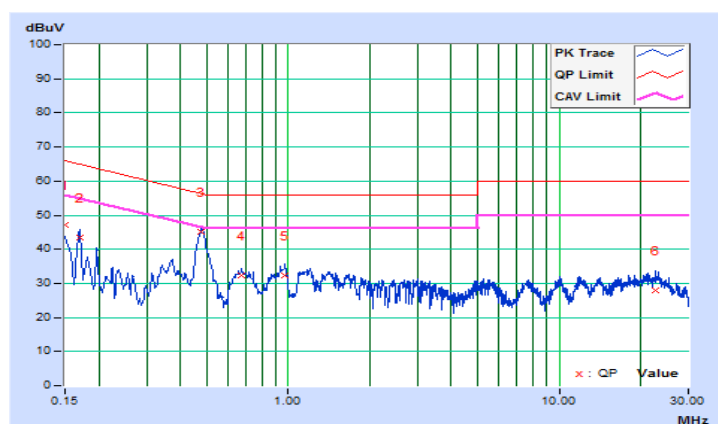
Mode A

Phase	Line (L)	Detector Function	Quasi-Peak (QP) / Average (AV)
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No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15000	10.45	36.68	24.00	47.13	34.45	66.00	56.00	-18.87	-21.55
2	0.16955	10.45	32.99	20.00	43.44	30.45	64.98	54.98	-21.54	-24.53
3	0.47915	10.51	34.69	30.38	45.20	40.89	56.35	46.35	-11.15	-5.46
4	0.67311	10.50	21.99	18.14	32.49	28.64	56.00	46.00	-23.51	-17.36
5	0.97501	10.48	21.95	17.86	32.43	28.34	56.00	46.00	-23.57	-17.66
6	22.71070	11.53	16.57	11.39	28.10	22.92	60.00	50.00	-31.90	-27.08

Remarks:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level - Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value.

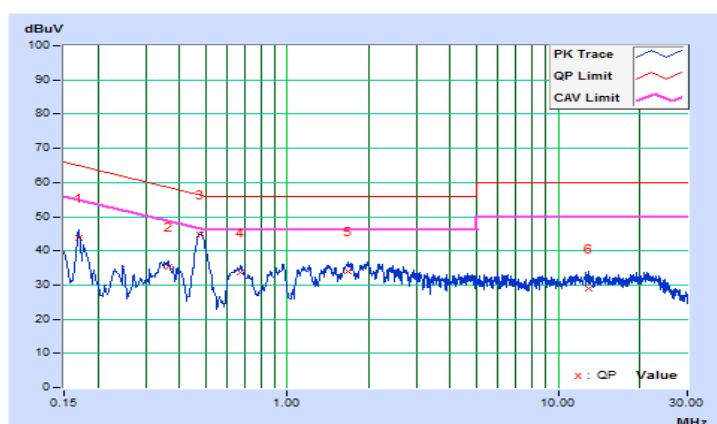


Phase	Neutral (N)	Detector Function	Quasi-Peak (QP) / Average (AV)
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No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.16955	10.21	33.57	21.35	43.78	31.56	64.98	54.98	-21.20	-23.42
2	0.36430	10.23	24.98	18.89	35.21	29.12	58.63	48.63	-23.42	-19.51
3	0.47412	10.24	34.51	29.33	44.75	39.57	56.44	46.44	-11.69	-6.87
4	0.67488	10.25	23.30	19.01	33.55	29.26	56.00	46.00	-22.45	-16.74
5	1.67881	10.30	23.55	19.67	33.85	29.97	56.00	46.00	-22.15	-16.03
6	12.89660	10.78	18.08	13.00	28.86	23.78	60.00	50.00	-31.14	-26.22

Remarks:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level - Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value.



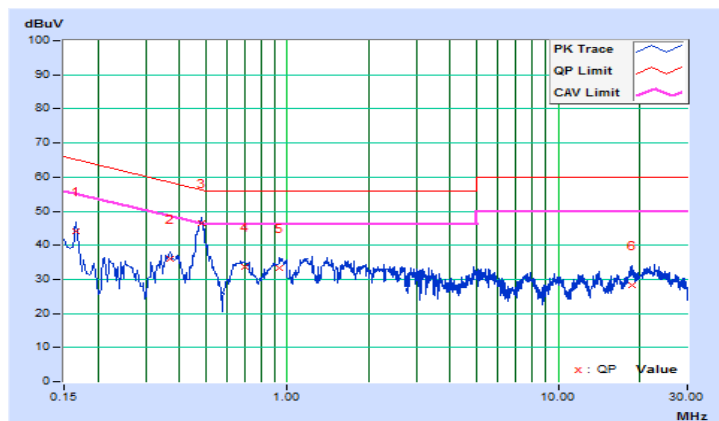
Mode B

Phase	Line (L)	Detector Function	Quasi-Peak (QP) / Average (AV)
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No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.16564	10.45	33.76	20.43	44.21	30.88	65.18	55.18	-20.97	-24.30
2	0.36913	10.51	25.44	19.44	35.95	29.95	58.52	48.52	-22.57	-18.57
3	0.48235	10.51	36.02	31.66	46.53	42.17	56.30	46.30	-9.77	-4.13
4	0.69473	10.50	23.19	19.44	33.69	29.94	56.00	46.00	-22.31	-16.06
5	0.93982	10.49	23.01	19.66	33.50	30.15	56.00	46.00	-22.50	-15.85
6	18.71859	11.36	16.78	11.73	28.14	23.09	60.00	50.00	-31.86	-26.91

Remarks:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level - Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value.

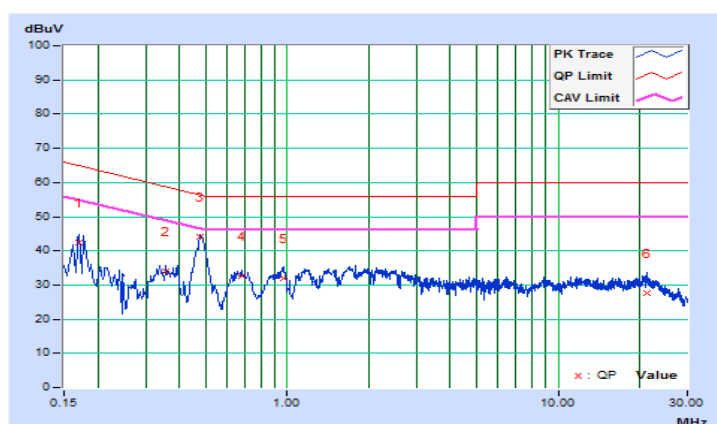


Phase	Neutral (N)	Detector Function	Quasi-Peak (QP) / Average (AV)
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No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.16955	10.21	32.37	19.95	42.58	30.16	64.98	54.98	-22.40	-24.82
2	0.35723	10.23	23.64	17.50	33.87	27.73	58.79	48.79	-24.92	-21.06
3	0.47663	10.24	33.70	29.05	43.94	39.29	56.40	46.40	-12.46	-7.11
4	0.67785	10.25	22.28	17.75	32.53	28.00	56.00	46.00	-23.47	-18.00
5	0.97084	10.26	21.81	18.11	32.07	28.37	56.00	46.00	-23.93	-17.63
6	21.22099	11.09	16.49	11.25	27.58	22.34	60.00	50.00	-32.42	-27.66

Remarks:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level - Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value.



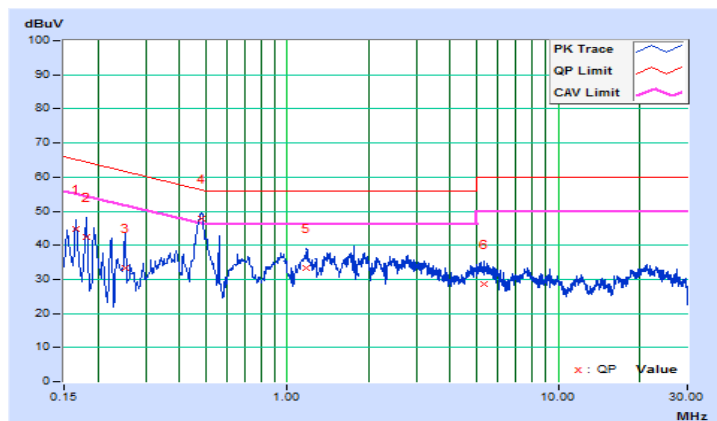
Mode C

Phase	Line (L)	Detector Function	Quasi-Peak (QP) / Average (AV)
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No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.16564	10.45	34.29	20.56	44.74	31.01	65.18	55.18	-20.44	-24.17
2	0.18128	10.45	31.87	19.56	42.32	30.01	64.43	54.43	-22.11	-24.42
3	0.25166	10.47	22.79	15.12	33.26	25.59	61.70	51.70	-28.44	-26.11
4	0.48235	10.51	37.44	33.16	47.95	43.67	56.30	46.30	-8.35	-2.63
5	1.18224	10.49	22.92	19.70	33.41	30.19	56.00	46.00	-22.59	-15.81
6	5.35030	10.71	17.91	11.52	28.62	22.23	60.00	50.00	-31.38	-27.77

Remarks:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level - Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value.

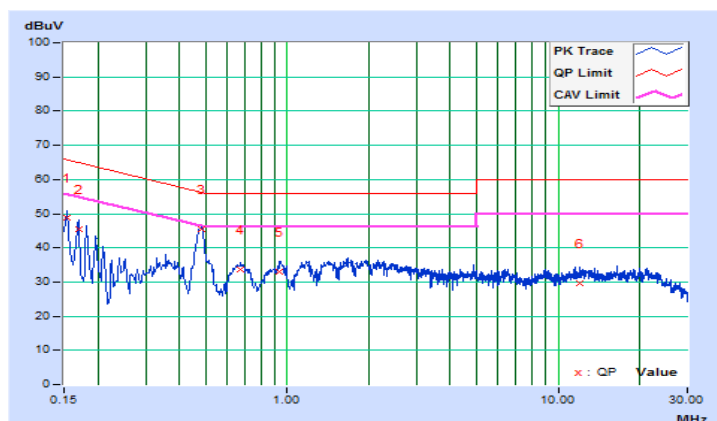


Phase	Neutral (N)	Detector Function	Quasi-Peak (QP) / Average (AV)
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No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15391	10.21	38.51	25.63	48.72	35.84	65.79	55.79	-17.07	-19.95
2	0.16955	10.21	35.11	22.31	45.32	32.52	64.98	54.98	-19.66	-22.46
3	0.48235	10.24	35.06	30.83	45.30	41.07	56.30	46.30	-11.00	-5.23
4	0.67394	10.25	23.43	19.52	33.68	29.77	56.00	46.00	-22.32	-16.23
5	0.93982	10.26	22.59	19.16	32.85	29.42	56.00	46.00	-23.15	-16.58
6	11.98948	10.75	18.89	13.58	29.64	24.33	60.00	50.00	-30.36	-25.67

Remarks:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level - Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value.



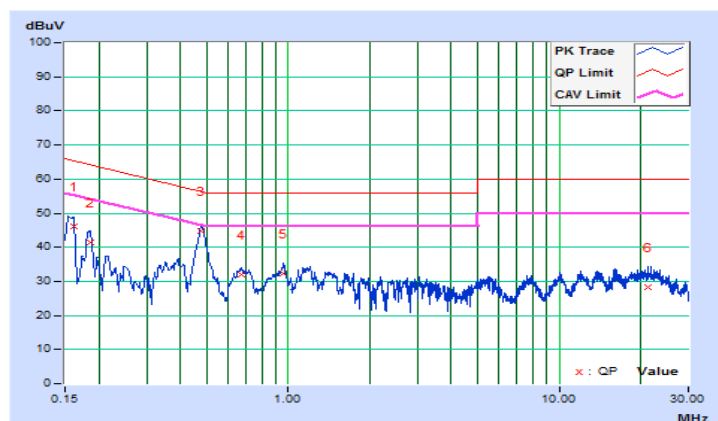
Mode D

Phase	Line (L)	Detector Function	Quasi-Peak (QP) / Average (AV)
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No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.16096	10.45	35.75	21.32	46.20	31.77	65.41	55.41	-19.21	-23.64
2	0.18508	10.45	31.10	17.90	41.55	28.35	64.25	54.25	-22.70	-25.90
3	0.47537	10.51	34.24	29.27	44.75	39.78	56.42	46.42	-11.67	-6.64
4	0.67311	10.50	21.60	17.65	32.10	28.15	56.00	46.00	-23.90	-17.85
5	0.96319	10.48	21.70	18.33	32.18	28.81	56.00	46.00	-23.82	-17.19
6	21.33047	11.48	16.85	11.65	28.33	23.13	60.00	50.00	-31.67	-26.87

Remarks:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level - Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value.

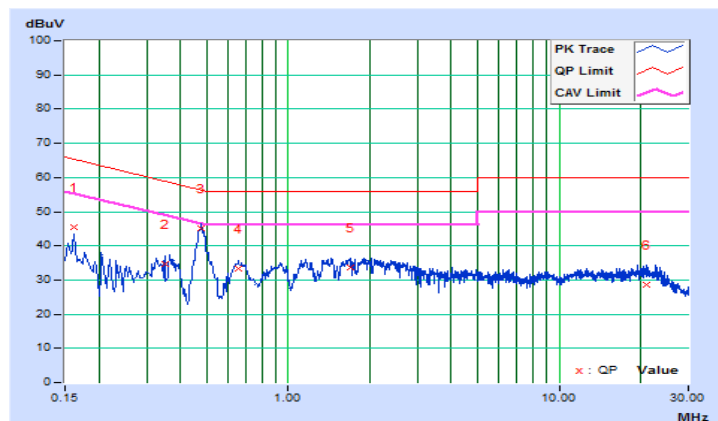


Phase	Neutral (N)	Detector Function	Quasi-Peak (QP) / Average (AV)
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No	Freq. [MHz]	Corr. Factor (dB)	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.16181	10.21	35.15	21.50	45.36	31.71	65.37	55.37	-20.01	-23.66
2	0.34941	10.23	24.51	17.91	34.74	28.14	58.98	48.98	-24.24	-20.84
3	0.47844	10.24	34.84	30.42	45.08	40.66	56.37	46.37	-11.29	-5.71
4	0.65388	10.25	23.17	18.49	33.42	28.74	56.00	46.00	-22.58	-17.26
5	1.69723	10.30	23.42	19.32	33.72	29.62	56.00	46.00	-22.28	-16.38
6	21.02549	11.08	17.55	12.32	28.63	23.40	60.00	50.00	-31.37	-26.60

Remarks:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level - Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value.



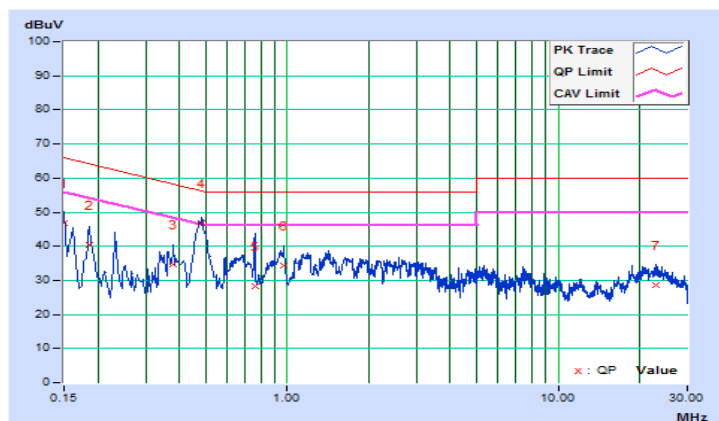
Mode E

Phase	Line (L)	Detector Function	Quasi-Peak (QP) / Average (AV)
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No	Freq. [MHz]	Corr. Factor (dB)	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15000	10.45	36.19	24.63	46.64	35.08	66.00	56.00	-19.36	-20.92
2	0.18519	10.45	29.86	18.15	40.31	28.60	64.25	54.25	-23.94	-25.65
3	0.38069	10.51	24.32	17.33	34.83	27.84	58.26	48.26	-23.43	-20.42
4	0.48295	10.51	36.45	31.91	46.96	42.42	56.29	46.29	-9.33	-3.87
5	0.75984	10.50	17.73	14.04	28.23	24.54	56.00	46.00	-27.77	-21.46
6	0.96719	10.48	23.82	20.28	34.30	30.76	56.00	46.00	-21.70	-15.24
7	23.07042	11.55	17.18	12.08	28.73	23.63	60.00	50.00	-31.27	-26.37

Remarks:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level - Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value.

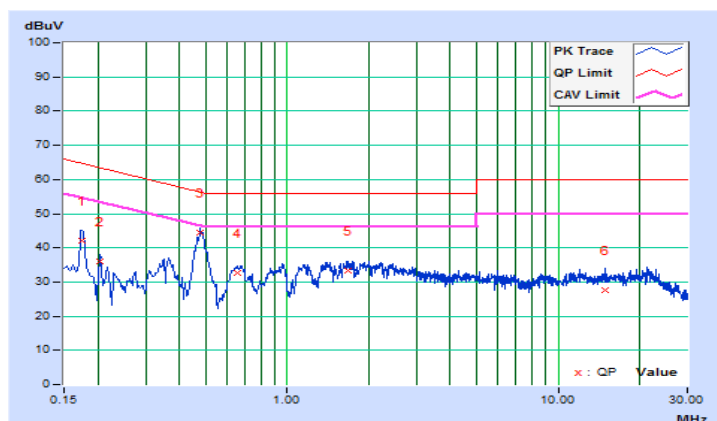


Phase	Neutral (N)	Detector Function	Quasi-Peak (QP) / Average (AV)
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No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.17374	10.21	32.02	20.26	42.23	30.47	64.78	54.78	-22.55	-24.31
2	0.20474	10.22	25.91	15.24	36.13	25.46	63.42	53.42	-27.29	-27.96
3	0.47844	10.24	34.34	29.91	44.58	40.15	56.37	46.37	-11.79	-6.22
4	0.65830	10.25	22.46	17.97	32.71	28.22	56.00	46.00	-23.29	-17.78
5	1.66708	10.30	23.03	19.35	33.33	29.65	56.00	46.00	-22.67	-16.35
6	14.95326	10.86	16.70	11.58	27.56	22.44	60.00	50.00	-32.44	-27.56

Remarks:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level - Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value.



4.3 Transmit Power Measurement

4.3.1 Limits of Transmit Power Measurement

Operation Band	EUT Category		Limit
U-NII-1	√	Outdoor Access Point	1 Watt (30 dBm) (Max. e.i.r.p $\leq$ 125 mW (21 dBm) at any elevation angle above 30 degrees as measured from the horizon)
		Fixed point-to-point Access Point	1 Watt (30 dBm)
	√	Indoor Access Point	1 Watt (30 dBm)
		Mobile and Portable client device	250 mW (24 dBm)
U-NII-2A			250 mW (24 dBm) or 11 dBm+10 log B*
U-NII-2C			250 mW (24 dBm) or 11 dBm+10 log B*
U-NII-3		√	1 Watt (30 dBm)

*B is the 26 dB emission bandwidth in megahertz

Per KDB 662911 Method of conducted output power measurement on IEEE 802.11 devices,

Array Gain = 0 dB (i.e., no array gain) for $N_{ANT} \leq 4$;

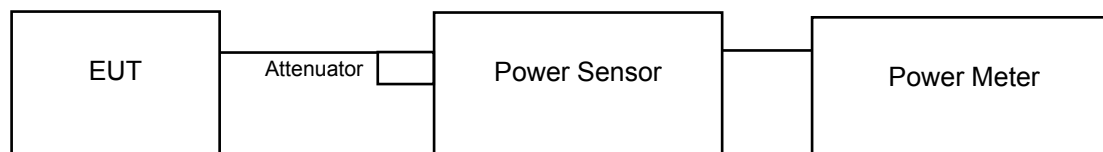
Array Gain = 0 dB (i.e., no array gain) for channel widths ≥ 40 MHz for any N_{ANT} ;

Array Gain = $5 \log(N_{ANT}/N_{SS})$ dB or 3 dB, whichever is less for 20-MHz channel widths with $N_{ANT} \geq 5$.

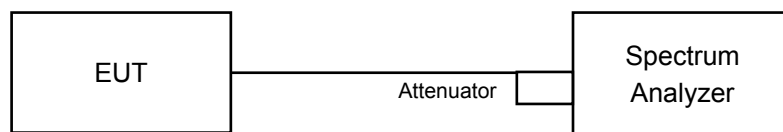
For power measurements on all other devices: Array Gain = $10 \log(N_{ANT}/N_{SS})$ dB.

4.3.2 Test Setup

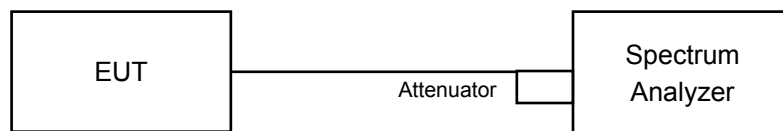
For Power Output
802.11n (HT20), 802.11n (HT40)



802.11ac (VHT80)



For Bandwidth



4.3.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

4.3.4 Test Procedure

For Average Power Measurement

802.11a, 802.11n (HT20), 802.11n (HT40)

Method PM is used to perform output power measurement, trigger and gating function of wide band power meter is enabled to measure max output power of TX on burst. Duty factor is not added to measured value.

802.11ac (VHT80)

- 1) Set span to encompass the entire 26 dB EBW (or, alternatively, the entire 99% occupied bandwidth) of the signal.
- 2) Set sweep trigger to "free run".
- 3) Set RBW = 1 MHz.
- 4) Set VBW $\geq$ 3 MHz.
- 5) Number of points in sweep $\geq$ 2 Span / RBW.
- 6) Sweep time $\leq$ (number of points in sweep) * T
- 7) Using emission bandwidth to determine the frequency span for integration the channel bandwidth.
- 8) Detector = RMS.
- 9) Trace mode = max hold.
- 10) Allow max hold to run for at least 60 seconds, or longer as needed to allow the trace to stabilize.
- 11) 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.

For 26dB Bandwidth

- 1) Set RBW = approximately 1% of the emission bandwidth.
- 2) Set the VBW > RBW.
- 3) Detector = Peak.
- 4) Trace mode = max hold.
- 5) Measure the maximum width of the emission that is 26 dB down from the peak of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.

4.3.5 Deviation from Test Standard

No deviation.

4.3.6 EUT Operating Conditions

The software provided by client to enable the EUT under transmission condition continuously at lowest, middle and highest channel frequencies individually.

4.3.7 Test Result

Power Output:

Mode A

For U-NII-1 Band (Outdoor Access Point)

CDD Mode

802.11a

Chan.	Freq. (MHz)	Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Pass / Fail
		Chain 0	Chain 1							
36	5180	11.92	12.31	32.582	15.13	27.75	5.68	20.81	21	Pass
40	5200	12.10	12.23	32.929	15.18	27.75	5.68	20.86	21	Pass
48	5240	11.71	12.21	31.459	14.98	27.75	5.68	20.66	21	Pass

Note:

1. Gain = 8.25dBi > 6dBi, so the limit shall be reduced to 30-(8.25-6) = 27.75dBm.
2. Gain = 5.68dBi (above 30 degrees from the horizon)
3. EIRP = conducted power +(5.68dBi) + array gain = (0 dB (i.e., no array gain) for NANT ≤ 4)

802.11n (HT20)

Chan.	Freq. (MHz)	Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Pass / Fail
		Chain 0	Chain 1							
36	5180	11.96	12.30	32.686	15.14	27.75	5.68	20.82	21	Pass
40	5200	11.88	12.40	32.795	15.16	27.75	5.68	20.84	21	Pass
48	5240	11.66	12.29	31.598	15.00	27.75	5.68	20.68	21	Pass

Note:

1. Gain = 8.25dBi > 6dBi, so the limit shall be reduced to 30-(8.25-6) = 27.75dBm.
2. Gain = 5.68dBi (above 30 degrees from the horizon)
3. EIRP = conducted power +(5.68dBi) + array gain = (0 dB (i.e., no array gain) for NANT ≤ 4)

802.11n (HT40)

Chan.	Freq. (MHz)	Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Pass / Fail
		Chain 0	Chain 1							
38	5190	12.03	12.45	33.538	15.26	27.75	5.68	20.94	21	Pass
46	5230	12.05	12.40	33.410	15.24	27.75	5.68	20.92	21	Pass

Note:

1. Gain = 8.25dBi > 6dBi, so the limit shall be reduced to 30-(8.25-6) = 27.75dBm.
2. Gain = 5.68dBi (above 30 degrees from the horizon)
3. EIRP = conducted power +(5.68dBi) + array gain = (0 dB (i.e., no array gain) for NANT ≤ 4)

802.11ac (VHT80)

Chan.	Freq. (MHz)	Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Pass / Fail
		Chain 0	Chain 1							
42	5210	12.01	12.33	32.985	15.18	27.75	5.68	20.86	21	Pass

Note:

1. Gain = 8.25dBi > 6dBi, so the limit shall be reduced to 30-(8.25-6) = 27.75dBm.
2. Gain = 5.68dBi (above 30 degrees from the horizon)
3. EIRP = conducted power +(5.68dBi) + array gain = (0 dB (i.e., no array gain) for NANT ≤ 4)

Beamforming Mode

802.11n (HT20)

Chan.	Freq. (MHz)	Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Pass / Fail
		Chain 0	Chain 1							
36	5180	8.95	9.29	16.344	12.13	24.74	8.69	20.82	21	Pass
40	5200	8.87	9.39	16.399	12.15	24.74	8.69	20.84	21	Pass
48	5240	8.65	9.28	15.801	11.99	24.74	8.69	20.68	21	Pass

Note:

1. Directional Gain = $8.25 + 10\log(2) = 11.26\text{dBi} > 6\text{dBi}$, so the limit shall be reduced to $30 - (11.26 - 6) = 24.74\text{dBm}$.
2. Gain = 5.68dBi (above 30 degrees from the horizon)
3. EIRP = conducted power + (5.68dBi) + beamforming gain (3.01dBi)

802.11n (HT40)

Chan.	Freq. (MHz)	Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Pass / Fail
		Chain 0	Chain 1							
38	5190	9.02	9.44	16.770	12.25	24.74	8.69	20.94	21	Pass
46	5230	9.04	9.39	16.706	12.23	24.74	8.69	20.92	21	Pass

Note:

1. Directional Gain = $8.25 + 10\log(2) = 11.26\text{dBi} > 6\text{dBi}$, so the limit shall be reduced to $30 - (11.26 - 6) = 24.74\text{dBm}$.
2. Gain = 5.68dBi (above 30 degrees from the horizon)
3. EIRP = conducted power + (5.68dBi) + beamforming gain (3.01dBi)

802.11ac (VHT80)

Chan.	Freq. (MHz)	Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Pass / Fail
		Chain 0	Chain 1							
42	5210	9.00	9.32	16.494	12.17	24.74	8.69	20.86	21	Pass

Note:

1. Directional Gain = $8.25 + 10\log(2) = 11.26\text{dBi} > 6\text{dBi}$, so the limit shall be reduced to $30 - (11.26 - 6) = 24.74\text{dBm}$.
2. Gain = 5.68dBi (above 30 degrees from the horizon)
3. EIRP = conducted power + (5.68dBi) + beamforming gain (3.01dBi)

For U-NII-1 Band (Indoor Access Point) & U-NII-3 Band

CDD Mode

802.11a

Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
36	5180	18.30	18.81	143.641	21.57	27.75	Pass
40	5200	21.72	22.31	318.810	25.04	27.75	Pass
48	5240	21.84	22.37	325.341	25.12	27.75	Pass
149	5745	23.15	22.70	392.747	25.94	27.75	Pass
157	5785	23.33	23.20	424.208	26.28	27.75	Pass
165	5825	23.02	23.03	401.356	26.04	27.75	Pass

Note: Gain = 8.25dBi > 6dBi, so the limit shall be reduced to $30-(8.25-6) = 27.75\text{dBm}$.

802.11n (HT20)

Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
36	5180	17.25	17.94	115.318	20.62	27.75	Pass
40	5200	22.60	23.05	383.807	25.84	27.75	Pass
48	5240	22.27	22.74	356.587	25.52	27.75	Pass
149	5745	23.12	22.79	395.224	25.97	27.75	Pass
157	5785	23.28	23.14	418.877	26.22	27.75	Pass
165	5825	22.99	23.11	403.711	26.06	27.75	Pass

Note: Gain = 8.25dBi > 6dBi, so the limit shall be reduced to $30-(8.25-6) = 27.75\text{dBm}$.

802.11n (HT40)

Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
38	5190	15.42	15.92	73.918	18.69	27.75	Pass
46	5230	21.90	22.11	317.437	25.02	27.75	Pass
151	5755	22.75	22.72	375.433	25.75	27.75	Pass
159	5795	22.78	22.84	381.980	25.82	27.75	Pass

Note: Gain = 8.25dBi > 6dBi, so the limit shall be reduced to $30-(8.25-6) = 27.75\text{dBm}$.

802.11ac (VHT80)

Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
42	5210	14.71	15.14	62.239	17.94	27.75	Pass
155	5775	18.79	18.72	150.156	21.77	27.75	Pass

Note: Gain = 8.25dBi > 6dBi, so the limit shall be reduced to $30-(8.25-6) = 27.75\text{dBm}$.

Beamforming Mode

802.11n (HT20)

Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
36	5180	14.24	14.93	57.663	17.61	24.74	Pass
40	5200	19.59	20.04	191.917	22.83	24.74	Pass
48	5240	19.26	19.73	178.306	22.51	24.74	Pass
149	5745	20.11	19.78	197.626	22.96	24.74	Pass
157	5785	20.27	20.13	209.453	23.21	24.74	Pass
165	5825	19.98	20.10	201.870	23.05	24.74	Pass

Note:

- Directional Gain = $8.25 + 10\log(2) = 11.26\text{dBi} > 6\text{dBi}$, so the limit shall be reduced to $30 - (11.26 - 6) = 24.74\text{dBm}$.

802.11n (HT40)

Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
38	5190	12.41	12.91	36.961	15.68	24.74	Pass
46	5230	18.89	19.10	158.729	22.01	24.74	Pass
151	5755	19.74	19.71	187.730	22.74	24.74	Pass
159	5795	19.77	19.83	191.003	22.81	24.74	Pass

Note:

- Directional Gain = $8.25 + 10\log(2) = 11.26\text{dBi} > 6\text{dBi}$, so the limit shall be reduced to $30 - (11.26 - 6) = 24.74\text{dBm}$.

802.11ac (VHT80)

Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
42	5210	11.70	12.13	31.122	14.93	24.74	Pass
155	5775	15.78	15.71	75.083	18.76	24.74	Pass

Note:

- Directional Gain = $8.25 + 10\log(2) = 11.26\text{dBi} > 6\text{dBi}$, so the limit shall be reduced to $30 - (11.26 - 6) = 24.74\text{dBm}$.

Mode B

For U-NII-1 Band (Outdoor Access Point)

CDD Mode

802.11a

Chan.	Freq. (MHz)	Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Pass / Fail
		Chain 0	Chain 1							
36	5180	12.41	12.83	36.605	15.64	30	5	20.64	21	Pass
40	5200	12.44	12.89	36.993	15.68	30	5	20.68	21	Pass
48	5240	12.41	12.71	36.082	15.57	30	5	20.57	21	Pass

Note:

1. Gain = 5dBi < 6dBi, so the limit no need to be reduced.
2. Gain = 5dBi (above 30 degrees from the horizon)
3. EIRP = conducted power +(5dBi) + array gain = (0 dB (i.e., no array gain) for NANT ≤ 4)

802.11n (HT20)

Chan.	Freq. (MHz)	Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Pass / Fail
		Chain 0	Chain 1							
36	5180	12.42	12.86	36.778	15.66	30	5	20.66	21	Pass
40	5200	12.37	12.83	36.445	15.62	30	5	20.62	21	Pass
48	5240	12.36	12.72	35.926	15.55	30	5	20.55	21	Pass

Note:

1. Gain = 5dBi < 6dBi, so the limit no need to be reduced.
2. Gain = 5dBi (above 30 degrees from the horizon)
3. EIRP = conducted power +(5dBi) + array gain = (0 dB (i.e., no array gain) for NANT ≤ 4)

802.11n (HT40)

Chan.	Freq. (MHz)	Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Pass / Fail
		Chain 0	Chain 1							
38	5190	12.51	13.01	37.823	15.78	30	5	20.78	21	Pass
46	5230	12.61	12.91	37.782	15.77	30	5	20.77	21	Pass

Note:

1. Gain = 5dBi < 6dBi, so the limit no need to be reduced.
2. Gain = 5dBi (above 30 degrees from the horizon)
3. EIRP = conducted power +(5dBi) + array gain = (0 dB (i.e., no array gain) for NANT ≤ 4)

802.11ac (VHT80)

Chan.	Freq. (MHz)	Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Pass / Fail
		Chain 0	Chain 1							
42	5210	12.49	12.83	36.929	15.67	30	5	20.67	21	Pass

Note:

1. Gain = 5dBi < 6dBi, so the limit no need to be reduced.
2. Gain = 5dBi (above 30 degrees from the horizon)
3. EIRP = conducted power +(5dBi) + array gain = (0 dB (i.e., no array gain) for NANT ≤ 4)

Beamforming Mode

802.11n (HT20)

Chan.	Freq. (MHz)	Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Pass / Fail
		Chain 0	Chain 1							
36	5180	9.41	9.85	18.390	12.65	30	8.01	20.66	21	Pass
40	5200	9.36	9.82	18.224	12.61	30	8.01	20.62	21	Pass
48	5240	9.35	9.71	17.964	12.54	30	8.01	20.55	21	Pass

Note:

1. Gain = 5dBi < 6dBi, so the limit no need to be reduced.
2. Gain = 5dBi (above 30 degrees from the horizon)
3. EIRP = conducted power + (5dBi) + beamforming gain (3.01dBi)

802.11n (HT40)

Chan.	Freq. (MHz)	Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Pass / Fail
		Chain 0	Chain 1							
38	5190	9.50	10.00	18.913	12.77	30	8.01	20.78	21	Pass
46	5230	9.60	9.90	18.892	12.76	30	8.01	20.77	21	Pass

Note:

1. Gain = 5dBi < 6dBi, so the limit no need to be reduced.
2. Gain = 5dBi (above 30 degrees from the horizon)
3. EIRP = conducted power + (5dBi) + beamforming gain (3.01dBi)

802.11ac (VHT80)

Chan.	Freq. (MHz)	Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Pass / Fail
		Chain 0	Chain 1							
42	5210	9.48	9.82	18.466	12.66	30	8.01	20.67	21	Pass

Note:

1. Gain = 5dBi < 6dBi, so the limit no need to be reduced.
2. Gain = 5dBi (above 30 degrees from the horizon)
3. EIRP = conducted power + (5dBi) + beamforming gain (3.01dBi)

For U-NII-1 Band (Indoor Access Point) & U-NII-3 Band

CDD Mode

802.11a

Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
36	5180	18.30	18.81	143.641	21.57	30	Pass
40	5200	22.76	23.36	405.569	26.08	30	Pass
48	5240	22.88	23.35	410.361	26.13	30	Pass
149	5745	19.94	19.76	193.252	22.86	30	Pass
157	5785	19.41	19.42	174.795	22.43	30	Pass
165	5825	20.22	20.30	212.348	23.27	30	Pass

802.11n (HT20)

Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
36	5180	17.69	18.16	124.213	20.94	30	Pass
40	5200	22.60	23.05	383.807	25.84	30	Pass
48	5240	22.80	23.22	400.440	26.03	30	Pass
149	5745	20.53	20.07	214.605	23.32	30	Pass
157	5785	19.87	19.63	188.884	22.76	30	Pass
165	5825	20.45	20.60	225.732	23.54	30	Pass

802.11n (HT40)

Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
38	5190	15.42	15.92	73.918	18.69	30	Pass
46	5230	21.90	22.11	317.437	25.02	30	Pass
151	5755	21.90	21.65	301.100	24.79	30	Pass
159	5795	21.40	21.29	272.624	24.36	30	Pass

802.11ac (VHT80)

Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
42	5210	14.71	15.14	62.239	17.94	30	Pass
155	5775	19.04	18.78	155.677	21.92	30	Pass

Beamforming Mode

802.11n (HT20)

Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
36	5180	14.68	15.15	62.111	17.93	27.99	Pass
40	5200	19.59	20.04	191.917	22.83	27.99	Pass
48	5240	19.79	20.21	200.234	23.02	27.99	Pass
149	5745	17.52	17.06	107.310	20.31	27.99	Pass
157	5785	16.86	16.62	94.449	19.75	27.99	Pass
165	5825	17.44	17.59	112.874	20.53	27.99	Pass

Note:

1. Directional Gain = $5 + 10\log(2) = 8.01\text{dBi} > 6\text{dBi}$, so the limit shall be reduced to $30 - (8.01 - 6) = 27.99\text{dBm}$.

802.11n (HT40)

Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
38	5190	12.41	12.91	36.961	15.68	27.99	Pass
46	5230	18.89	19.10	158.729	22.01	27.99	Pass
151	5755	18.89	18.64	150.560	21.78	27.99	Pass
159	5795	18.39	18.28	136.322	21.35	27.99	Pass

Note:

1. Directional Gain = $5 + 10\log(2) = 8.01\text{dBi} > 6\text{dBi}$, so the limit shall be reduced to $30 - (8.01 - 6) = 27.99\text{dBm}$.

802.11ac (VHT80)

Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
42	5210	11.70	12.13	34.334	14.93	27.99	Pass
155	5775	16.03	15.77	121.370	18.91	27.99	Pass

Note:

1. Directional Gain = $5 + 10\log(2) = 8.01\text{dBi} > 6\text{dBi}$, so the limit shall be reduced to $30 - (8.01 - 6) = 27.99\text{dBm}$.

Mode C

For U-NII-1 Band (Outdoor Access Point)

CDD Mode

802.11a

Chan.	Freq. (MHz)	Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Pass / Fail
		Chain 0	Chain 1							
36	5180	10.35	10.62	22.374	13.50	25.30	7.46	20.96	21	Pass
40	5200	10.34	10.55	22.164	13.46	25.30	7.46	20.92	21	Pass
48	5240	10.34	10.59	22.269	13.48	25.30	7.46	20.94	21	Pass

Note:

1. Gain = 10.7dBi > 6dBi, so the limit shall be reduced to $30 - (10.7 - 6) = 25.30\text{dBm}$.
2. Gain = 7.46dBi (above 30 degrees from the horizon)
3. EIRP = conducted power + (7.46dBi) + array gain = (0 dB (i.e., no array gain) for NANT ≤ 4)

802.11n (HT20)

Chan.	Freq. (MHz)	Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Pass / Fail
		Chain 0	Chain 1							
36	5180	10.36	10.65	22.478	13.52	25.30	7.46	20.98	21	Pass
40	5200	10.37	10.59	22.344	13.49	25.30	7.46	20.95	21	Pass
48	5240	10.34	10.56	22.190	13.46	25.30	7.46	20.92	21	Pass

Note:

1. Gain = 10.7dBi > 6dBi, so the limit shall be reduced to $30 - (10.7 - 6) = 25.30\text{dBm}$.
2. Gain = 7.46dBi (above 30 degrees from the horizon)
3. EIRP = conducted power + (7.46dBi) + array gain = (0 dB (i.e., no array gain) for NANT ≤ 4)

802.11n (HT40)

Chan.	Freq. (MHz)	Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Pass / Fail
		Chain 0	Chain 1							
38	5190	10.37	10.54	22.528	13.47	25.30	7.46	20.93	21	Pass
46	5230	10.35	10.62	22.245	13.50	25.30	7.46	20.96	21	Pass

Note:

1. Gain = 10.7dBi > 6dBi, so the limit shall be reduced to $30 - (10.7 - 6) = 25.30\text{dBm}$.
2. Gain = 7.46dBi (above 30 degrees from the horizon)
3. EIRP = conducted power + (7.46dBi) + array gain = (0 dB (i.e., no array gain) for NANT ≤ 4)

802.11ac (VHT80)

Chan.	Freq. (MHz)	Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Pass / Fail
		Chain 0	Chain 1							
42	5210	10.32	10.64	21.572	13.49	25.30	7.46	20.95	21	Pass

Note:

1. Gain = 10.7dBi > 6dBi, so the limit shall be reduced to $30 - (10.7 - 6) = 25.30\text{dBm}$.
2. Gain = 7.46dBi (above 30 degrees from the horizon)
3. EIRP = conducted power + (7.46dBi) + array gain = (0 dB (i.e., no array gain) for NANT ≤ 4)

Beamforming Mode

802.11n (HT20)

Chan.	Freq. (MHz)	Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Pass / Fail
		Chain 0	Chain 1							
36	5180	7.35	7.64	11.240	10.51	22.29	10.47	20.98	21	Pass
40	5200	7.36	7.58	11.173	10.48	22.29	10.47	20.95	21	Pass
48	5240	7.33	7.55	11.096	10.45	22.29	10.47	20.92	21	Pass

Note:

1. Directional Gain = $10.7 + 10\log(2) = 13.71\text{dBi} > 6\text{dBi}$, so the limit shall be reduced to $30-(13.71-6) = 22.29\text{dBm}$.
2. Gain = 7.46dBi (above 30 degrees from the horizon)
3. EIRP = conducted power + (7.46dBi) + beamforming gain (3.01dBi)

802.11n (HT40)

Chan.	Freq. (MHz)	Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Pass / Fail
		Chain 0	Chain 1							
38	5190	7.36	7.53	11.107	10.46	22.29	10.47	20.93	21	Pass
46	5230	7.34	7.61	11.188	10.49	22.29	10.47	20.96	21	Pass

Note:

1. Directional Gain = $10.7 + 10\log(2) = 13.71\text{dBi} > 6\text{dBi}$, so the limit shall be reduced to $30-(13.71-6) = 22.29\text{dBm}$.
2. Gain = 7.46dBi (above 30 degrees from the horizon)
3. EIRP = conducted power + (7.46dBi) + beamforming gain (3.01dBi)

802.11ac (VHT80)

Chan.	Freq. (MHz)	Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Pass / Fail
		Chain 0	Chain 1							
42	5210	7.31	7.63	11.177	10.48	22.29	10.47	20.95	21	Pass

Note:

1. Directional Gain = $10.7 + 10\log(2) = 13.71\text{dBi} > 6\text{dBi}$, so the limit shall be reduced to $30-(13.71-6) = 22.29\text{dBm}$.
2. Gain = 7.46dBi (above 30 degrees from the horizon)
3. EIRP = conducted power + (7.46dBi) + beamforming gain (3.01dBi)

For U-NII-1 Band (Indoor Access Point) & U-NII-3 Band

CDD Mode

802.11a

Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
36	5180	17.30	17.67	112.182	20.50	25.30	Pass
40	5200	17.97	18.26	129.649	21.13	25.30	Pass
48	5240	17.90	18.19	127.577	21.06	25.30	Pass
149	5745	22.35	21.91	327.030	25.15	25.30	Pass
157	5785	21.99	21.90	313.007	24.96	25.30	Pass
165	5825	21.73	21.90	303.818	24.83	25.30	Pass

Note: Gain = 10.7dBi > 6dBi, so the limit shall be reduced to 30-(10.7-6) = 25.30dBm.

802.11n (HT20)

Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
36	5180	16.77	17.12	99.057	19.96	25.30	Pass
40	5200	18.48	18.87	147.559	21.69	25.30	Pass
48	5240	18.43	18.64	142.777	21.55	25.30	Pass
149	5745	22.39	22.00	331.869	25.21	25.30	Pass
157	5785	21.90	21.76	304.850	24.84	25.30	Pass
165	5825	21.75	21.93	305.579	24.85	25.30	Pass

Note: Gain = 10.7dBi > 6dBi, so the limit shall be reduced to 30-(10.7-6) = 25.30dBm.

802.11n (HT40)

Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
38	5190	13.90	14.32	51.587	17.13	25.30	Pass
46	5230	20.17	20.46	215.165	23.33	25.30	Pass
151	5755	22.21	21.99	324.466	25.11	25.30	Pass
159	5795	22.20	22.12	328.889	25.17	25.30	Pass

Note: Gain = 10.7dBi > 6dBi, so the limit shall be reduced to 30-(10.7-6) = 25.30dBm.

802.11ac (VHT80)

Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
42	5210	13.21	13.53	43.483	16.38	25.30	Pass
155	5775	17.50	17.26	109.445	20.39	25.30	Pass

Note: Gain = 10.7dBi > 6dBi, so the limit shall be reduced to 30-(10.7-6) = 25.30dBm.

Beamforming Mode

802.11n (HT20)

Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
36	5180	13.76	14.11	49.532	16.95	22.29	Pass
40	5200	15.47	15.86	73.785	18.68	22.29	Pass
48	5240	15.42	15.63	71.393	18.54	22.29	Pass
149	5745	19.38	18.99	165.946	22.20	22.29	Pass
157	5785	18.89	18.75	152.436	21.83	22.29	Pass
165	5825	18.74	18.92	152.800	21.84	22.29	Pass

Note:

1. Directional Gain = $10.7 + 10\log(2) = 13.71\text{dBi} > 6\text{dBi}$, so the limit shall be reduced to $30-(13.71-6) = 22.29\text{dBm}$.

802.11n (HT40)

Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
38	5190	10.89	11.31	25.795	14.12	22.29	Pass
46	5230	17.16	17.45	107.590	20.32	22.29	Pass
151	5755	19.20	18.98	162.244	22.10	22.29	Pass
159	5795	19.19	19.11	164.456	22.16	22.29	Pass

Note:

1. Directional Gain = $10.7 + 10\log(2) = 13.71\text{dBi} > 6\text{dBi}$, so the limit shall be reduced to $30-(13.71-6) = 22.29\text{dBm}$.

802.11ac (VHT80)

Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
42	5210	10.20	10.52	21.743	13.37	22.29	Pass
155	5775	14.49	14.25	54.726	17.38	22.29	Pass

Note:

1. Directional Gain = $10.7 + 10\log(2) = 13.71\text{dBi} > 6\text{dBi}$, so the limit shall be reduced to $30-(13.71-6) = 22.29\text{dBm}$.

Mode D

For U-NII-1 Band (Outdoor Access Point)

CDD Mode

802.11a

Chan.	Freq. (MHz)	Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Pass / Fail
		Chain 0	Chain 1							
36	5180	15.18	15.55	66.853	18.38	29.30	2.28	20.66	21	Pass
40	5200	15.15	15.61	69.126	18.40	29.30	2.28	20.68	21	Pass
48	5240	15.01	15.77	69.453	18.42	29.30	2.28	20.70	21	Pass

Note:

1. Gain = 6.7dBi > 6dBi, so the limit shall be reduced to $30-(6.7-6) = 29.30\text{dBm}$.
2. Gain = 2.28dBi (above 30 degrees from the horizon)
3. EIRP = conducted power +(2.28dBi) + array gain = (0 dB (i.e., no array gain) for NANT ≤ 4)

802.11n (HT20)

Chan.	Freq. (MHz)	Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Pass / Fail
		Chain 0	Chain 1							
36	5180	15.10	15.67	69.257	18.40	29.30	2.28	20.68	21	Pass
40	5200	15.12	15.77	70.266	18.47	29.30	2.28	20.75	21	Pass
48	5240	14.99	15.73	68.961	18.39	29.30	2.28	20.67	21	Pass

Note:

1. Gain = 6.7dBi > 6dBi, so the limit shall be reduced to $30-(6.7-6) = 29.30\text{dBm}$.
2. Gain = 2.28dBi (above 30 degrees from the horizon)
3. EIRP = conducted power +(2.28dBi) + array gain = (0 dB (i.e., no array gain) for NANT ≤ 4)

802.11n (HT40)

Chan.	Freq. (MHz)	Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Pass / Fail
		Chain 0	Chain 1							
38	5190	15.31	15.84	72.334	18.59	29.30	2.28	20.87	21	Pass
46	5230	15.31	15.89	72.778	18.62	29.30	2.28	20.90	21	Pass

Note:

1. Gain = 6.7dBi > 6dBi, so the limit shall be reduced to $30-(6.7-6) = 29.30\text{dBm}$.
2. Gain = 2.28dBi (above 30 degrees from the horizon)
3. EIRP = conducted power +(2.28dBi) + array gain = (0 dB (i.e., no array gain) for NANT ≤ 4)

802.11ac (VHT80)

Chan.	Freq. (MHz)	Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Pass / Fail
		Chain 0	Chain 1							
42	5210	15.10	15.61	68.751	18.37	29.30	2.28	20.65	21	Pass

Note:

1. Gain = 6.7dBi > 6dBi, so the limit shall be reduced to $30-(6.7-6) = 29.30\text{dBm}$.
2. Gain = 2.28dBi (above 30 degrees from the horizon)
3. EIRP = conducted power +(2.28dBi) + array gain = (0 dB (i.e., no array gain) for NANT ≤ 4)

Beamforming Mode

802.11n (HT20)

Chan.	Freq. (MHz)	Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Pass / Fail
		Chain 0	Chain 1							
36	5180	12.09	12.66	34.631	15.39	26.29	5.29	20.68	21	Pass
40	5200	12.11	12.76	35.135	15.46	26.29	5.29	20.75	21	Pass
48	5240	11.98	12.72	34.483	15.38	26.29	5.29	20.67	21	Pass

Note:

1. Directional Gain = $6.7 + 10\log(2) = 9.71\text{dBi} > 6\text{dBi}$, so the limit shall be reduced to $30 - (9.71 - 6) = 26.29\text{dBm}$.
2. Gain = 2.28dBi (above 30 degrees from the horizon)
3. EIRP = conducted power + (2.28dBi) + beamforming gain (3.01dBi)

802.11n (HT40)

Chan.	Freq. (MHz)	Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Pass / Fail
		Chain 0	Chain 1							
38	5190	12.30	12.83	36.169	15.58	26.29	5.29	20.87	21	Pass
46	5230	12.30	12.88	36.391	15.61	26.29	5.29	20.90	21	Pass

Note:

1. Directional Gain = $6.7 + 10\log(2) = 9.71\text{dBi} > 6\text{dBi}$, so the limit shall be reduced to $30 - (9.71 - 6) = 26.29\text{dBm}$.
2. Gain = 2.28dBi (above 30 degrees from the horizon)
3. EIRP = conducted power + (2.28dBi) + beamforming gain (3.01dBi)

802.11ac (VHT80)

Chan.	Freq. (MHz)	Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Pass / Fail
		Chain 0	Chain 1							
42	5210	12.09	12.60	34.378	15.36	26.29	5.29	20.65	21	Pass

Note:

1. Directional Gain = $6.7 + 10\log(2) = 9.71\text{dBi} > 6\text{dBi}$, so the limit shall be reduced to $30 - (9.71 - 6) = 26.29\text{dBm}$.
2. Gain = 2.28dBi (above 30 degrees from the horizon)
3. EIRP = conducted power + (2.28dBi) + beamforming gain (3.01dBi)

For U-NII-1 Band (Indoor Access Point) & U-NII-3 Band

CDD Mode

802.11a

Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
36	5180	18.25	18.96	145.539	21.63	29.30	Pass
40	5200	22.24	22.87	361.136	25.58	29.30	Pass
48	5240	22.88	23.35	410.361	26.13	29.30	Pass
149	5745	19.19	19.55	173.142	22.38	29.30	Pass
157	5785	18.01	19.02	143.040	21.55	29.30	Pass
165	5825	19.94	20.20	203.341	23.08	29.30	Pass

Note: Gain = 6.7dBi > 6dBi, so the limit shall be reduced to 30-(6.7-6) = 29.30dBm.

802.11n (HT20)

Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
36	5180	18.29	18.97	146.339	21.65	29.30	Pass
40	5200	22.37	23.07	375.352	25.74	29.30	Pass
48	5240	22.80	23.22	400.440	26.03	29.30	Pass
149	5745	19.73	19.91	191.921	22.83	29.30	Pass
157	5785	18.41	19.42	156.841	21.95	29.30	Pass
165	5825	19.01	20.45	190.533	22.80	29.30	Pass

Note: Gain = 6.7dBi > 6dBi, so the limit shall be reduced to 30-(6.7-6) = 29.30dBm.

802.11n (HT40)

Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
38	5190	15.89	16.56	84.105	19.25	29.30	Pass
46	5230	21.78	22.31	320.877	25.06	29.30	Pass
151	5755	20.12	20.58	217.090	23.37	29.30	Pass
159	5795	20.81	21.90	275.386	24.40	29.30	Pass

Note: Gain = 6.7dBi > 6dBi, so the limit shall be reduced to 30-(6.7-6) = 29.30dBm.

802.11ac (VHT80)

Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
42	5210	16.24	16.74	89.279	19.51	29.30	Pass
155	5775	19.69	20.1	195.440	22.91	29.30	Pass

Note: Gain = 6.7dBi > 6dBi, so the limit shall be reduced to 30-(6.7-6) = 29.30dBm.

Beamforming Mode

802.11n (HT20)

Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
36	5180	15.28	15.96	73.174	18.64	26.29	Pass
40	5200	19.36	20.06	187.689	22.73	26.29	Pass
48	5240	19.79	20.21	200.234	23.02	26.29	Pass
149	5745	16.72	16.90	95.967	19.82	26.29	Pass
157	5785	15.40	16.41	78.426	18.94	26.29	Pass
165	5825	16.00	17.44	95.273	19.79	26.29	Pass

Note:

1. Directional Gain = $6.7 + 10\log(2) = 9.71\text{dBi} > 6\text{dBi}$, so the limit shall be reduced to $30 - (9.71 - 6) = 26.29\text{dBm}$.

802.11n (HT40)

Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
38	5190	12.88	13.55	42.055	16.24	26.29	Pass
46	5230	18.77	19.30	160.449	22.05	26.29	Pass
151	5755	17.11	17.57	108.552	20.36	26.29	Pass
159	5795	17.80	18.89	137.702	21.39	26.29	Pass

Note:

1. Directional Gain = $6.7 + 10\log(2) = 9.71\text{dBi} > 6\text{dBi}$, so the limit shall be reduced to $30 - (9.71 - 6) = 26.29\text{dBm}$.

802.11ac (VHT80)

Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
42	5210	13.23	13.73	44.643	16.50	26.29	Pass
155	5775	16.68	17.09	97.727	19.90	26.29	Pass

Note:

1. Directional Gain = $6.7 + 10\log(2) = 9.71\text{dBi} > 6\text{dBi}$, so the limit shall be reduced to $30 - (9.71 - 6) = 26.29\text{dBm}$.

Mode E

For U-NII-1 Band (Outdoor Access Point)

CDD Mode

802.11a

Chan.	Freq. (MHz)	Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Pass / Fail
		Chain 0	Chain 1							
36	5180	10.35	10.62	22.374	13.50	25.30	7.34	20.84	21	Pass
40	5200	10.34	10.55	22.164	13.46	25.30	7.34	20.80	21	Pass
48	5240	10.34	10.59	22.269	13.48	25.30	7.34	20.82	21	Pass

Note:

1. Gain = 10.7dBi > 6dBi, so the limit shall be reduced to $30 - (10.7 - 6) = 25.30\text{dBm}$.
2. Gain = 7.34dBi (above 30 degrees from the horizon)
3. EIRP = conducted power + (7.34dBi) + array gain = (0 dB (i.e., no array gain) for NANT ≤ 4)

802.11n (HT20)

Chan.	Freq. (MHz)	Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Pass / Fail
		Chain 0	Chain 1							
36	5180	10.36	10.65	22.478	13.52	25.30	7.34	20.86	21	Pass
40	5200	10.37	10.59	22.344	13.49	25.30	7.34	20.83	21	Pass
48	5240	10.34	10.56	22.190	13.46	25.30	7.34	20.80	21	Pass

Note:

1. Gain = 10.7dBi > 6dBi, so the limit shall be reduced to $30 - (10.7 - 6) = 25.30\text{dBm}$.
2. Gain = 7.34dBi (above 30 degrees from the horizon)
3. EIRP = conducted power + (7.34dBi) + array gain = (0 dB (i.e., no array gain) for NANT ≤ 4)

802.11n (HT40)

Chan.	Freq. (MHz)	Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Pass / Fail
		Chain 0	Chain 1							
38	5190	10.37	10.54	22.528	13.47	25.30	7.34	20.81	21	Pass
46	5230	10.35	10.62	22.245	13.50	25.30	7.34	20.84	21	Pass

Note:

1. Gain = 10.7dBi > 6dBi, so the limit shall be reduced to $30 - (10.7 - 6) = 25.30\text{dBm}$.
2. Gain = 7.34dBi (above 30 degrees from the horizon)
3. EIRP = conducted power + (7.34dBi) + array gain = (0 dB (i.e., no array gain) for NANT ≤ 4)

802.11ac (VHT80)

Chan.	Freq. (MHz)	Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Pass / Fail
		Chain 0	Chain 1							
42	5210	10.32	10.64	21.572	13.49	25.30	7.34	20.83	21	Pass

Note:

1. Gain = 10.7dBi > 6dBi, so the limit shall be reduced to $30 - (10.7 - 6) = 25.30\text{dBm}$.
2. Gain = 7.34dBi (above 30 degrees from the horizon)
3. EIRP = conducted power + (7.34dBi) + array gain = (0 dB (i.e., no array gain) for NANT ≤ 4)

Beamforming Mode

802.11n (HT20)

Chan.	Freq. (MHz)	Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Pass / Fail
		Chain 0	Chain 1							
36	5180	7.35	7.64	11.240	10.51	22.29	10.35	20.86	21	Pass
40	5200	7.36	7.58	11.173	10.48	22.29	10.35	20.83	21	Pass
48	5240	7.33	7.55	11.096	10.45	22.29	10.35	20.80	21	Pass

Note:

1. Directional Gain = $10.7 + 10\log(2) = 13.71\text{dBi} > 6\text{dBi}$, so the limit shall be reduced to $30 - (13.71 - 6) = 22.29\text{dBm}$.
2. Gain = 7.34dBi (above 30 degrees from the horizon)
3. EIRP = conducted power + (7.34dBi) + beamforming gain (3.01dBi)

802.11n (HT40)

Chan.	Freq. (MHz)	Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Pass / Fail
		Chain 0	Chain 1							
38	5190	7.36	7.53	11.107	10.46	22.29	10.35	20.81	21	Pass
46	5230	7.34	7.61	11.188	10.49	22.29	10.35	20.84	21	Pass

Note:

1. Directional Gain = $10.7 + 10\log(2) = 13.71\text{dBi} > 6\text{dBi}$, so the limit shall be reduced to $30 - (13.71 - 6) = 22.29\text{dBm}$.
2. Gain = 7.34dBi (above 30 degrees from the horizon)
3. EIRP = conducted power + (7.34dBi) + beamforming gain (3.01dBi)

802.11ac (VHT80)

Chan.	Freq. (MHz)	Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Pass / Fail
		Chain 0	Chain 1							
42	5210	7.31	7.63	11.177	10.48	22.29	10.35	20.83	21	Pass

Note:

1. Directional Gain = $10.7 + 10\log(2) = 13.71\text{dBi} > 6\text{dBi}$, so the limit shall be reduced to $30 - (13.71 - 6) = 22.29\text{dBm}$.
2. Gain = 7.34dBi (above 30 degrees from the horizon)
3. EIRP = conducted power + (7.34dBi) + beamforming gain (3.01dBi)

For U-NII-1 Band (Indoor Access Point) & U-NII-3 Band

CDD Mode

802.11a

Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
36	5180	18.27	18.67	140.764	21.48	25.30	Pass
40	5200	17.97	18.26	129.649	21.13	25.30	Pass
48	5240	17.90	18.19	127.577	21.06	25.30	Pass
149	5745	21.49	21.25	274.281	24.38	25.30	Pass
157	5785	20.46	20.38	220.317	23.43	25.30	Pass
165	5825	20.22	20.30	212.348	23.27	25.30	Pass

Note: Gain = 10.7dBi > 6dBi, so the limit shall be reduced to 30-(10.7-6) = 25.30dBm.

802.11n (HT20)

Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
36	5180	18.30	18.74	142.425	21.54	25.30	Pass
40	5200	18.48	18.87	147.559	21.69	25.30	Pass
48	5240	18.43	18.64	142.777	21.55	25.30	Pass
149	5745	21.82	21.67	298.948	24.76	25.30	Pass
157	5785	21.68	21.33	283.062	24.52	25.30	Pass
165	5825	21.34	21.42	274.820	24.39	25.30	Pass

Note: Gain = 10.7dBi > 6dBi, so the limit shall be reduced to 30-(10.7-6) = 25.30dBm.

802.11n (HT40)

Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
38	5190	15.91	16.33	81.948	19.14	25.30	Pass
46	5230	21.71	21.80	299.608	24.77	25.30	Pass
151	5755	22.21	21.99	324.466	25.11	25.30	Pass
159	5795	22.20	22.12	328.889	25.17	25.30	Pass

Note: Gain = 10.7dBi > 6dBi, so the limit shall be reduced to 30-(10.7-6) = 25.30dBm.

802.11ac (VHT80)

Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
42	5210	15.71	15.96	76.685	18.85	25.30	Pass
155	5775	19.27	18.92	162.511	22.11	25.30	Pass

Note: Gain = 10.7dBi > 6dBi, so the limit shall be reduced to 30-(10.7-6) = 25.30dBm.

Beamforming Mode

802.11n (HT20)

Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
36	5180	15.29	15.73	71.218	18.53	22.29	Pass
40	5200	15.47	15.86	73.785	18.68	22.29	Pass
48	5240	15.42	15.63	71.393	18.54	22.29	Pass
149	5745	18.81	18.66	149.484	21.75	22.29	Pass
157	5785	18.67	18.32	141.541	21.51	22.29	Pass
165	5825	18.33	18.41	137.420	21.38	22.29	Pass

Note:

1. Directional Gain = $10.7 + 10\log(2) = 13.71\text{dBi} > 6\text{dBi}$, so the limit shall be reduced to $30-(13.71-6) = 22.29\text{dBm}$.

802.11n (HT40)

Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
38	5190	12.90	13.32	40.977	16.13	22.29	Pass
46	5230	18.70	18.79	149.814	21.76	22.29	Pass
151	5755	19.20	18.98	162.244	22.10	22.29	Pass
159	5795	19.19	19.11	164.456	22.16	22.29	Pass

Note:

1. Directional Gain = $10.7 + 10\log(2) = 13.71\text{dBi} > 6\text{dBi}$, so the limit shall be reduced to $30-(13.71-6) = 22.29\text{dBm}$.

802.11ac (VHT80)

Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
42	5210	12.70	12.95	38.345	15.84	22.29	Pass
155	5775	16.26	15.91	81.261	19.10	22.29	Pass

Note:

1. Directional Gain = $10.7 + 10\log(2) = 13.71\text{dBi} > 6\text{dBi}$, so the limit shall be reduced to $30-(13.71-6) = 22.29\text{dBm}$.

26dB Bandwidth:

Mode A

Outdoor Access Point

802.11a

Chan.	Freq. (MHz)	26dBc Bandwidth (MHz)		Pass / Fail
		Chain 0	Chain 1	
36	5180	19.60	19.23	Pass
40	5200	19.50	19.19	Pass
48	5240	19.49	19.13	Pass

802.11n (HT20)

Chan.	Freq. (MHz)	26dBc Bandwidth (MHz)		Pass / Fail
		Chain 0	Chain 1	
36	5180	20.31	20.38	Pass
40	5200	20.37	20.41	Pass
48	5240	20.29	20.34	Pass

802.11n (HT40)

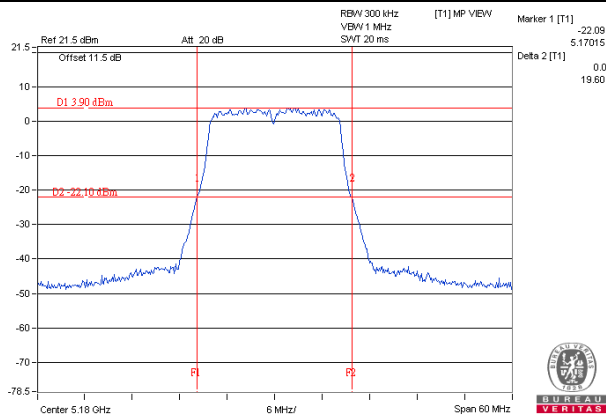
Chan.	Freq. (MHz)	26dBc Bandwidth (MHz)		Pass / Fail
		Chain 0	Chain 1	
38	5190	40.67	40.84	Pass
46	5230	40.73	40.92	Pass

802.11ac (VHT80)

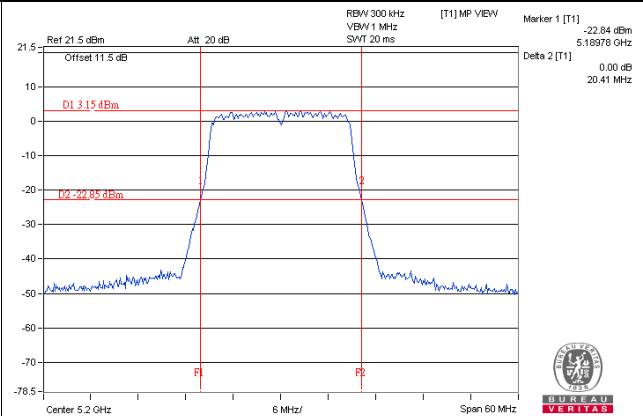
Chan.	Freq. (MHz)	26dBc Bandwidth (MHz)		Pass / Fail
		Chain 0	Chain 1	
42	5210	83.80	83.74	Pass

Spectrum Plot of Worst Value

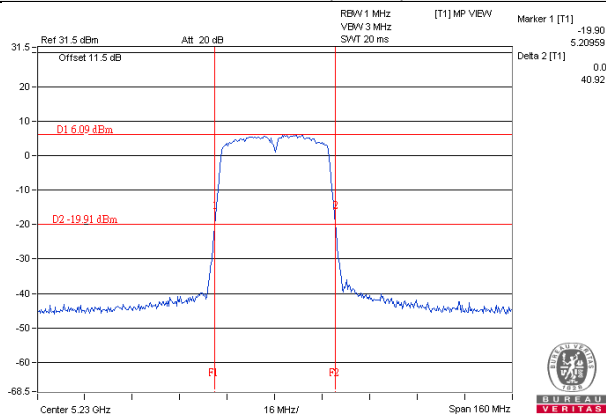
802.11a



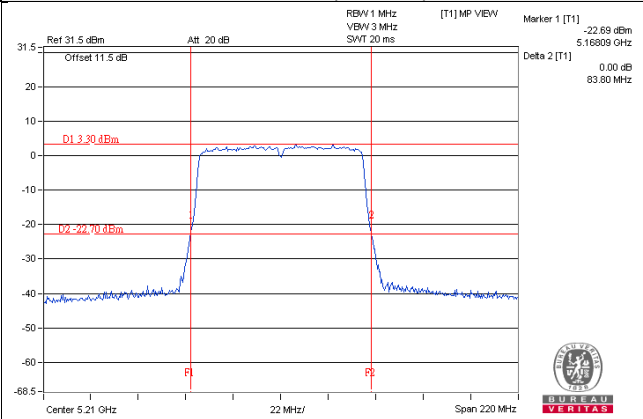
802.11n (HT20)



802.11n (HT40)



802.11ac (VHT80)



Indoor Access Point

802.11a

Chan.	Freq. (MHz)	26dBc Bandwidth (MHz)		Pass / Fail
		Chain 0	Chain 1	
36	5180	19.58	19.22	Pass
40	5200	21.26	20.26	Pass
48	5240	21.22	20.75	Pass

802.11n (HT20)

Chan.	Freq. (MHz)	26dBc Bandwidth (MHz)		Pass / Fail
		Chain 0	Chain 1	
36	5180	20.39	20.41	Pass
40	5200	22.58	21.29	Pass
48	5240	22.72	21.13	Pass

802.11n (HT40)

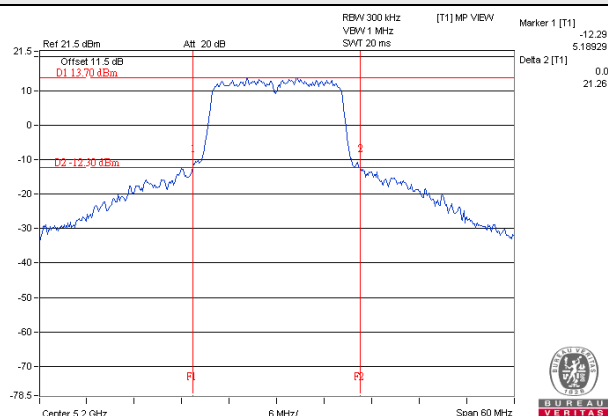
Chan.	Freq. (MHz)	26dBc Bandwidth (MHz)		Pass / Fail
		Chain 0	Chain 1	
38	5190	40.86	40.94	Pass
46	5230	41.73	41.28	Pass

802.11ac (VHT80)

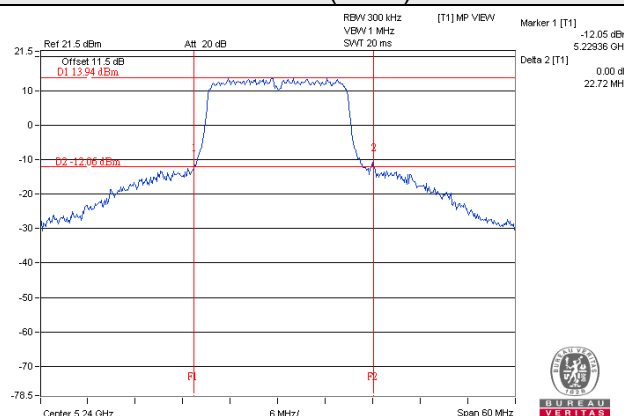
Chan.	Freq. (MHz)	26dBc Bandwidth (MHz)		Pass / Fail
		Chain 0	Chain 1	
42	5210	83.94	83.99	Pass

Spectrum Plot of Worst Value

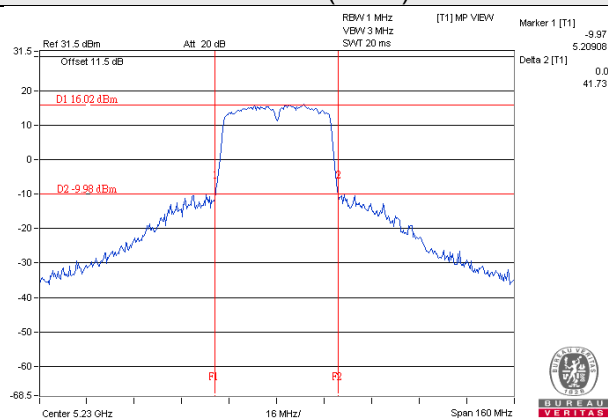
802.11a



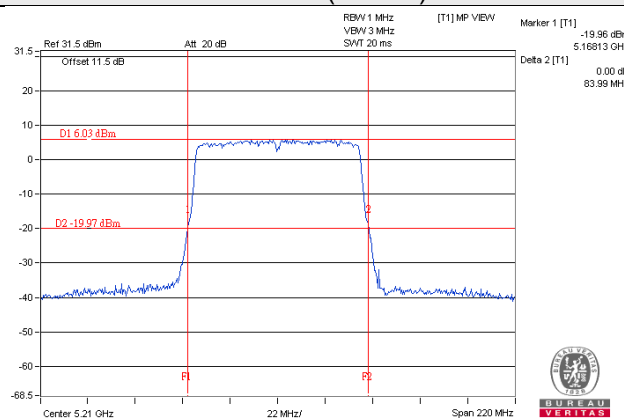
802.11n (HT20)



802.11n (HT40)



802.11ac (VHT80)



Mode B

Outdoor Access Point

802.11a

Chan.	Freq. (MHz)	26dBc Bandwidth (MHz)		Pass / Fail
		Chain 0	Chain 1	
36	5180	19.61	19.28	Pass
40	5200	19.45	19.19	Pass
48	5240	19.48	19.17	Pass

802.11n (HT20)

Chan.	Freq. (MHz)	26dBc Bandwidth (MHz)		Pass / Fail
		Chain 0	Chain 1	
36	5180	20.42	20.33	Pass
40	5200	20.42	20.39	Pass
48	5240	20.46	20.44	Pass

802.11n (HT40)

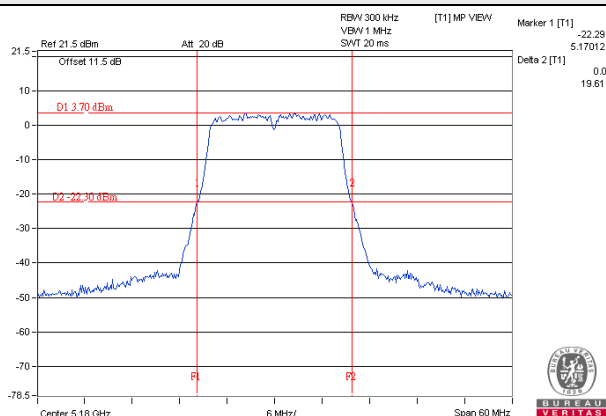
Chan.	Freq. (MHz)	26dBc Bandwidth (MHz)		Pass / Fail
		Chain 0	Chain 1	
38	5190	40.74	40.81	Pass
46	5230	40.88	40.97	Pass

802.11ac (VHT80)

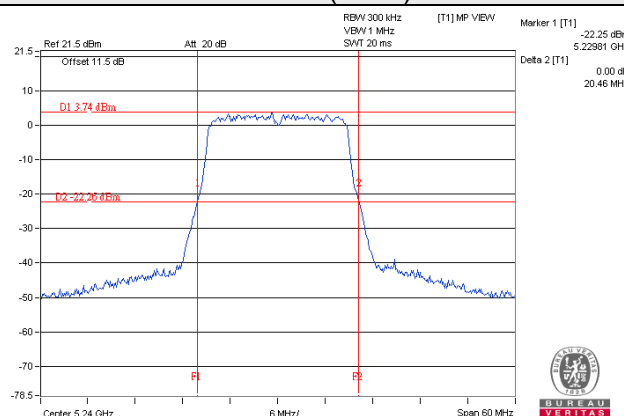
Chan.	Freq. (MHz)	26dBc Bandwidth (MHz)		Pass / Fail
		Chain 0	Chain 1	
42	5210	83.89	83.62	Pass

Spectrum Plot of Worst Value

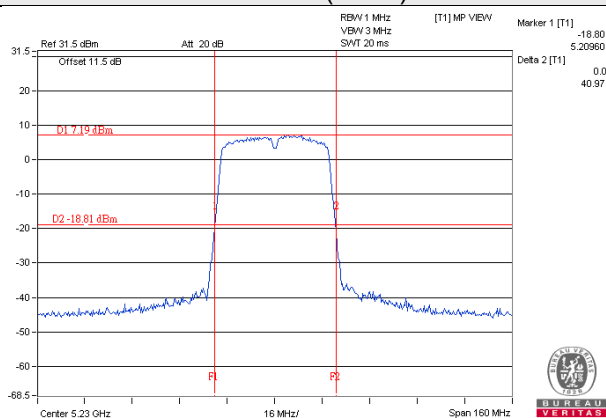
802.11a



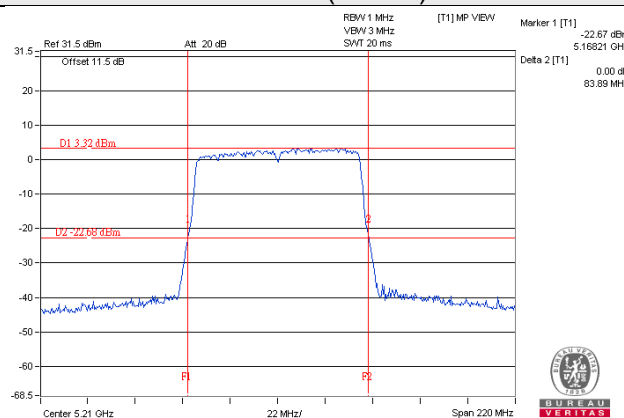
802.11n (HT20)



802.11n (HT40)



802.11ac (VHT80)



Indoor Access Point

802.11a

Chan.	Freq. (MHz)	26dBc Bandwidth (MHz)		Pass / Fail
		Chain 0	Chain 1	
36	5180	19.54	19.18	Pass
40	5200	31.04	24.04	Pass
48	5240	29.71	22.66	Pass

802.11n (HT20)

Chan.	Freq. (MHz)	26dBc Bandwidth (MHz)		Pass / Fail
		Chain 0	Chain 1	
36	5180	20.38	20.43	Pass
40	5200	22.81	22.26	Pass
48	5240	30.17	25.48	Pass

802.11n (HT40)

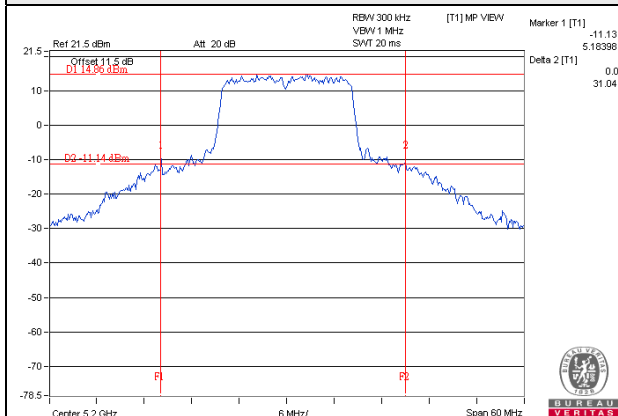
Chan.	Freq. (MHz)	26dBc Bandwidth (MHz)		Pass / Fail
		Chain 0	Chain 1	
38	5190	40.82	41.08	Pass
46	5230	51.62	41.35	Pass

802.11ac (VHT80)

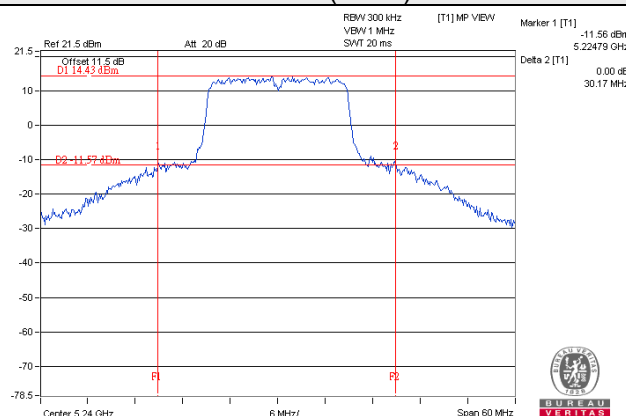
Chan.	Freq. (MHz)	26dBc Bandwidth (MHz)		Pass / Fail
		Chain 0	Chain 1	
42	5210	83.69	83.75	Pass

Spectrum Plot of Worst Value

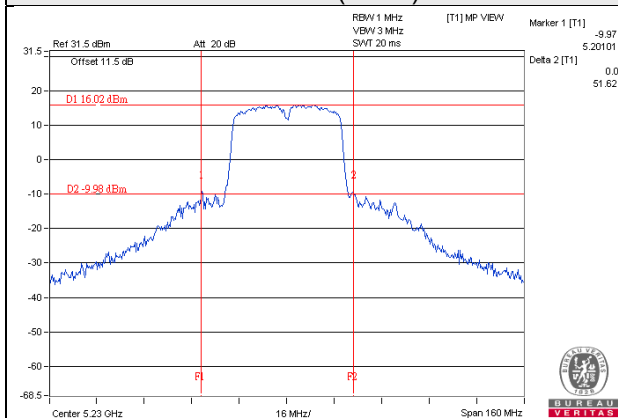
802.11a



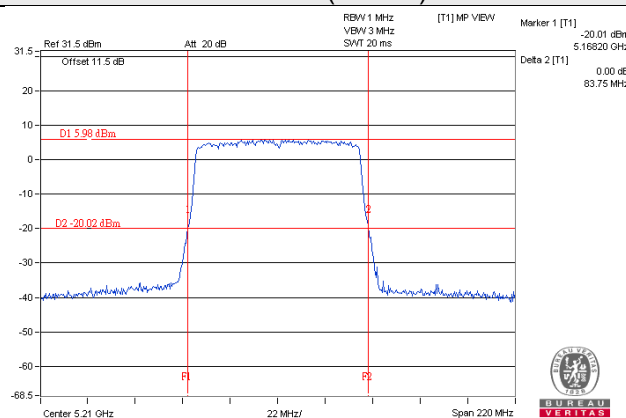
802.11n (HT20)



802.11n (HT40)



802.11ac (VHT80)



Mode C

Outdoor Access Point

802.11a

Chan.	Freq. (MHz)	26dBc Bandwidth (MHz)		Pass / Fail
		Chain 0	Chain 1	
36	5180	19.51	19.28	Pass
40	5200	19.43	19.21	Pass
48	5240	19.58	19.18	Pass

802.11n (HT20)

Chan.	Freq. (MHz)	26dBc Bandwidth (MHz)		Pass / Fail
		Chain 0	Chain 1	
36	5180	20.40	20.37	Pass
40	5200	20.34	20.44	Pass
48	5240	20.39	20.34	Pass

802.11n (HT40)

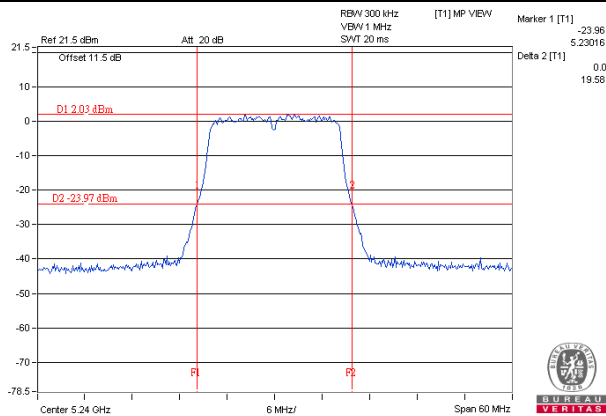
Chan.	Freq. (MHz)	26dBc Bandwidth (MHz)		Pass / Fail
		Chain 0	Chain 1	
38	5190	40.68	40.87	Pass
46	5230	40.68	40.81	Pass

802.11ac (VHT80)

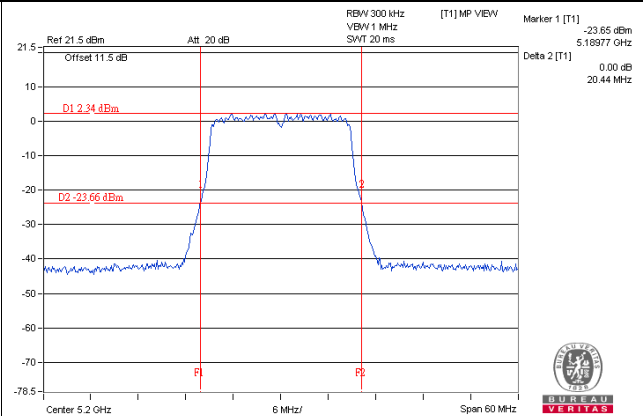
Chan.	Freq. (MHz)	26dBc Bandwidth (MHz)		Pass / Fail
		Chain 0	Chain 1	
42	5210	83.89	83.80	Pass

Spectrum Plot of Worst Value

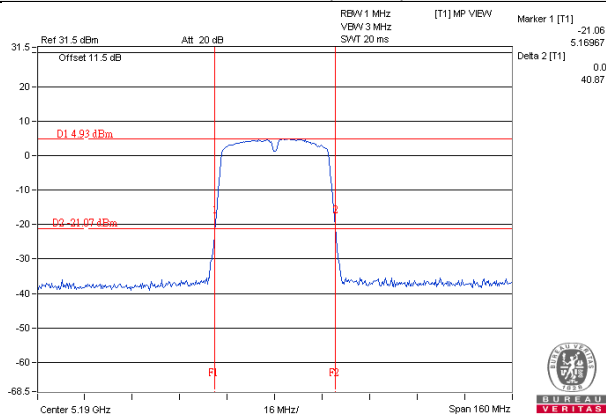
802.11a



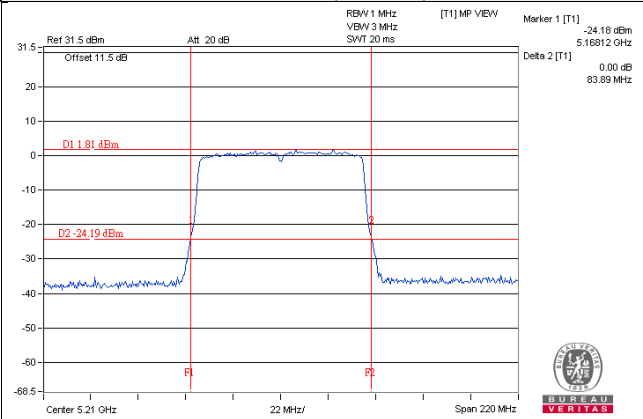
802.11n (HT20)



802.11n (HT40)



802.11ac (VHT80)



Indoor Access Point

802.11a

Chan.	Freq. (MHz)	26dBc Bandwidth (MHz)		Pass / Fail
		Chain 0	Chain 1	
36	5180	19.49	19.23	Pass
40	5200	19.52	19.26	Pass
48	5240	19.47	19.19	Pass

802.11n (HT20)

Chan.	Freq. (MHz)	26dBc Bandwidth (MHz)		Pass / Fail
		Chain 0	Chain 1	
36	5180	20.36	20.30	Pass
40	5200	20.38	20.35	Pass
48	5240	20.42	20.30	Pass

802.11n (HT40)

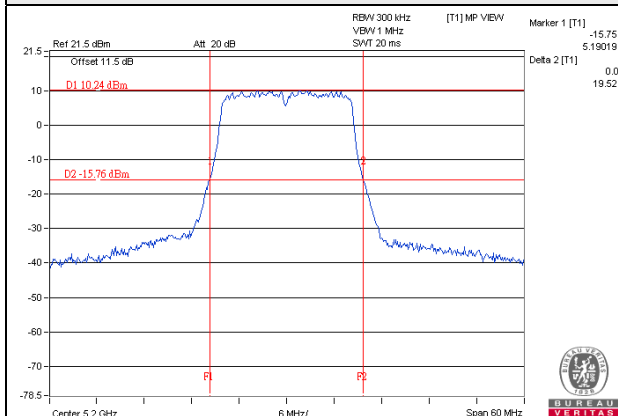
Chan.	Freq. (MHz)	26dBc Bandwidth (MHz)		Pass / Fail
		Chain 0	Chain 1	
38	5190	40.69	40.63	Pass
46	5230	40.77	40.86	Pass

802.11ac (VHT80)

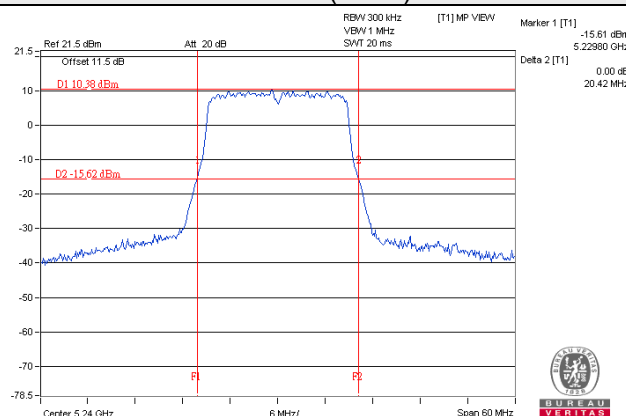
Chan.	Freq. (MHz)	26dBc Bandwidth (MHz)		Pass / Fail
		Chain 0	Chain 1	
42	5210	84.12	83.50	Pass

Spectrum Plot of Worst Value

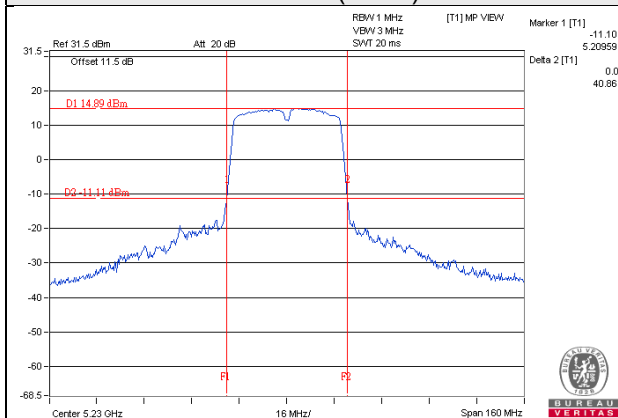
802.11a



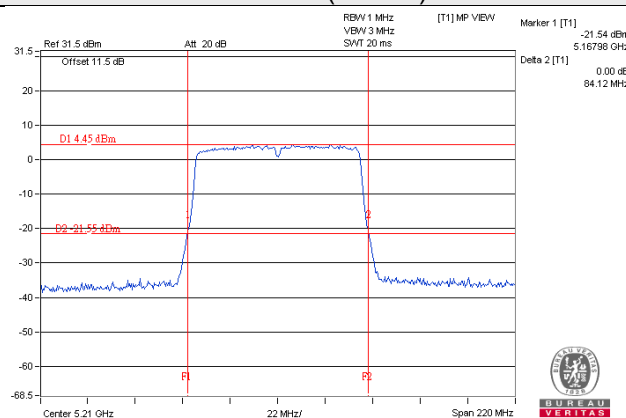
802.11n (HT20)



802.11n (HT40)



802.11ac (VHT80)



Mode D

Outdoor Access Point

802.11a

Chan.	Freq. (MHz)	26dBc Bandwidth (MHz)		Pass / Fail
		Chain 0	Chain 1	
36	5180	19.58	19.13	Pass
40	5200	19.53	19.24	Pass
48	5240	19.66	19.19	Pass

802.11n (HT20)

Chan.	Freq. (MHz)	26dBc Bandwidth (MHz)		Pass / Fail
		Chain 0	Chain 1	
36	5180	20.41	20.37	Pass
40	5200	20.38	20.37	Pass
48	5240	20.52	20.34	Pass

802.11n (HT40)

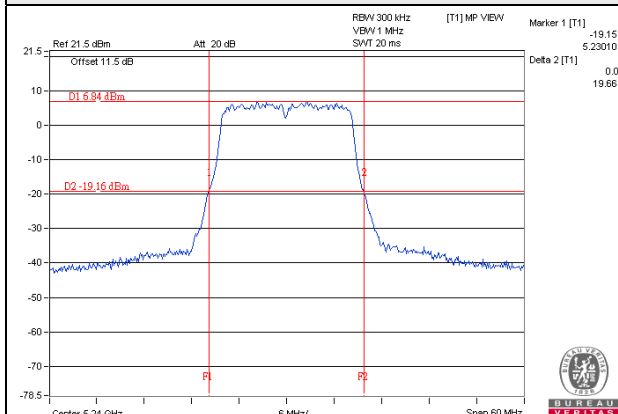
Chan.	Freq. (MHz)	26dBc Bandwidth (MHz)		Pass / Fail
		Chain 0	Chain 1	
38	5190	40.67	40.72	Pass
46	5230	40.66	40.90	Pass

802.11ac (VHT80)

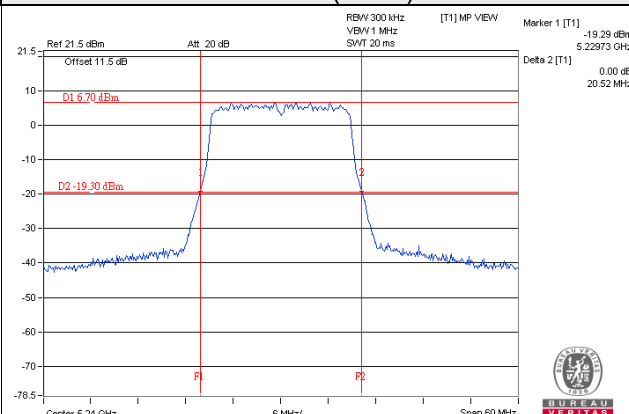
Chan.	Freq. (MHz)	26dBc Bandwidth (MHz)		Pass / Fail
		Chain 0	Chain 1	
42	5210	84.07	83.81	Pass

Spectrum Plot of Worst Value

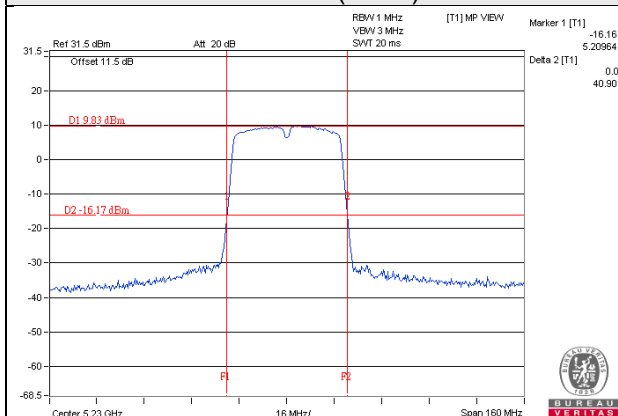
802.11a



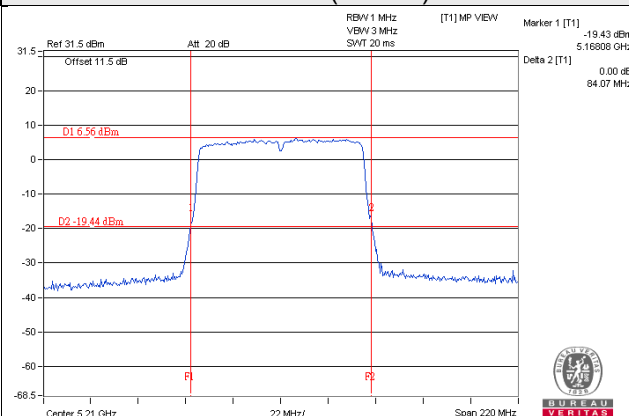
802.11n (HT20)



802.11n (HT40)



802.11ac (VHT80)



Indoor Access Point

802.11a

Chan.	Freq. (MHz)	26dBc Bandwidth (MHz)		Pass / Fail
		Chain 0	Chain 1	
36	5180	19.53	19.25	Pass
40	5200	25.60	22.75	Pass
48	5240	31.65	23.13	Pass

802.11n (HT20)

Chan.	Freq. (MHz)	26dBc Bandwidth (MHz)		Pass / Fail
		Chain 0	Chain 1	
36	5180	20.43	20.34	Pass
40	5200	30.01	27.68	Pass
48	5240	30.07	27.26	Pass

802.11n (HT40)

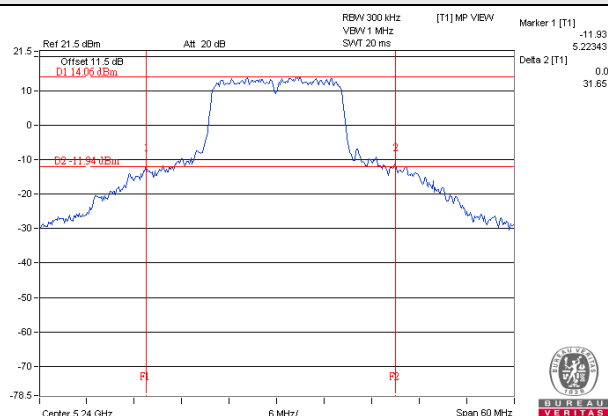
Chan.	Freq. (MHz)	26dBc Bandwidth (MHz)		Pass / Fail
		Chain 0	Chain 1	
38	5190	40.62	40.79	Pass
46	5230	62.86	51.64	Pass

802.11ac (VHT80)

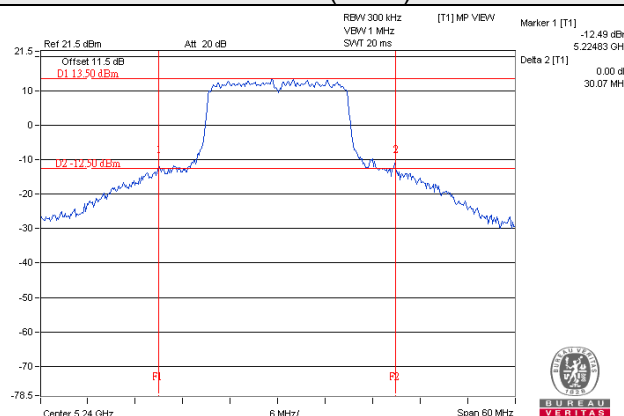
Chan.	Freq. (MHz)	26dBc Bandwidth (MHz)		Pass / Fail
		Chain 0	Chain 1	
42	5210	83.83	83.85	Pass

Spectrum Plot of Worst Value

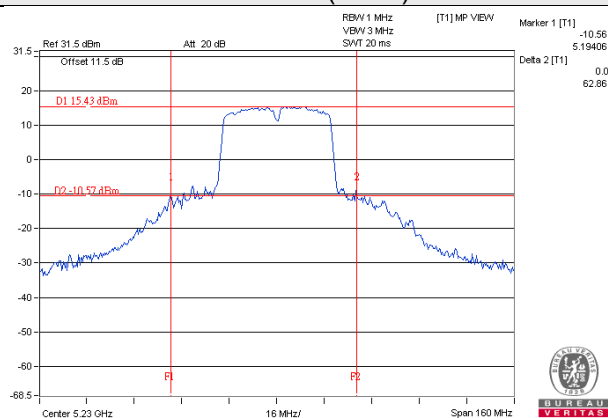
802.11a



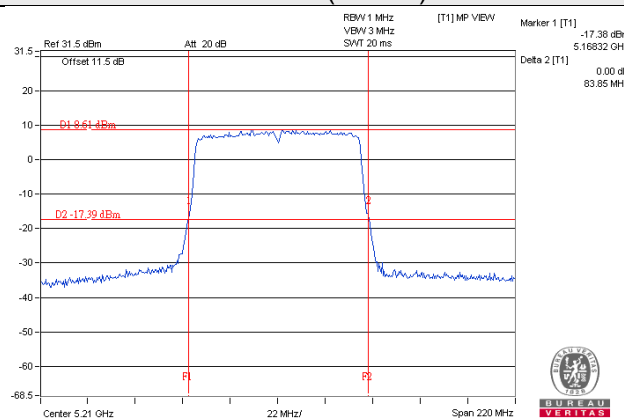
802.11n (HT20)



802.11n (HT40)



802.11ac (VHT80)



Mode E

Outdoor Access Point

802.11a

Chan.	Freq. (MHz)	26dBc Bandwidth (MHz)		Pass / Fail
		Chain 0	Chain 1	
36	5180	19.51	19.28	Pass
40	5200	19.43	19.21	Pass
48	5240	19.58	19.18	Pass

802.11n (HT20)

Chan.	Freq. (MHz)	26dBc Bandwidth (MHz)		Pass / Fail
		Chain 0	Chain 1	
36	5180	20.40	20.37	Pass
40	5200	20.34	20.44	Pass
48	5240	20.39	20.34	Pass

802.11n (HT40)

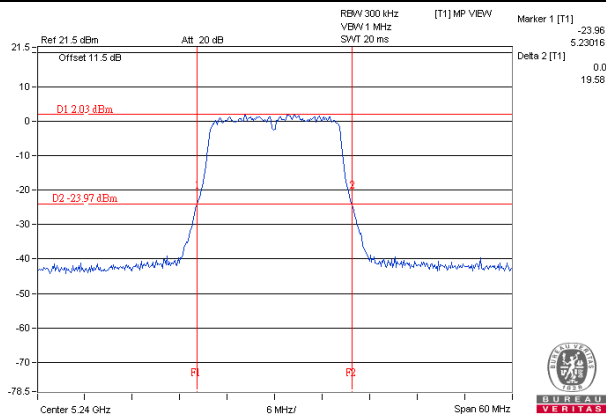
Chan.	Freq. (MHz)	26dBc Bandwidth (MHz)		Pass / Fail
		Chain 0	Chain 1	
38	5190	40.68	40.87	Pass
46	5230	40.68	40.81	Pass

802.11ac (VHT80)

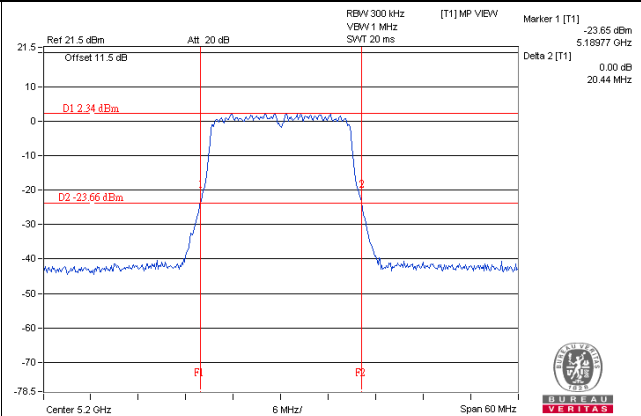
Chan.	Freq. (MHz)	26dBc Bandwidth (MHz)		Pass / Fail
		Chain 0	Chain 1	
42	5210	83.89	83.80	Pass

Spectrum Plot of Worst Value

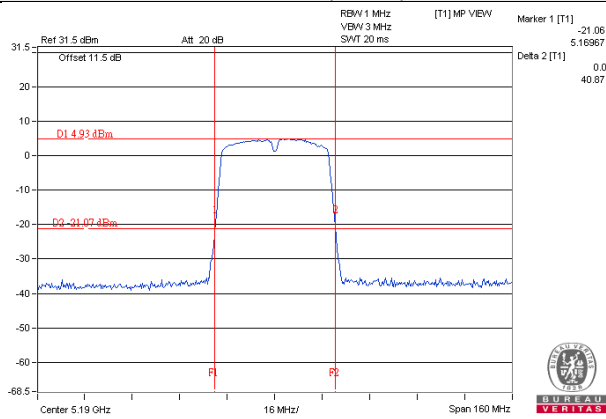
802.11a



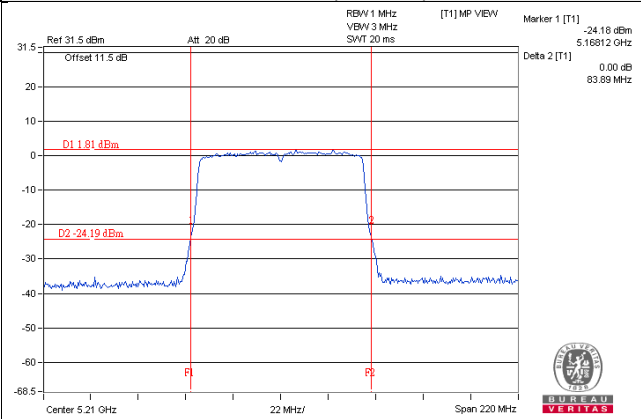
802.11n (HT20)



802.11n (HT40)



802.11ac (VHT80)



Indoor Access Point

802.11a

Chan.	Freq. (MHz)	26dBc Bandwidth (MHz)		Pass / Fail
		Chain 0	Chain 1	
36	5180	19.55	19.25	Pass
40	5200	19.52	19.26	Pass
48	5240	19.47	19.19	Pass

802.11n (HT20)

Chan.	Freq. (MHz)	26dBc Bandwidth (MHz)		Pass / Fail
		Chain 0	Chain 1	
36	5180	20.42	20.32	Pass
40	5200	20.38	20.35	Pass
48	5240	20.42	20.30	Pass

802.11n (HT40)

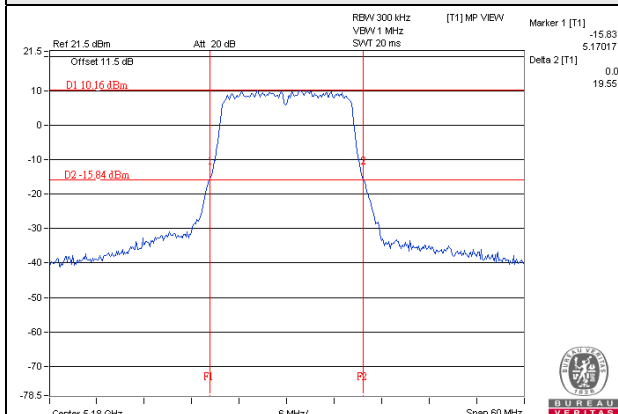
Chan.	Freq. (MHz)	26dBc Bandwidth (MHz)		Pass / Fail
		Chain 0	Chain 1	
38	5190	40.67	40.82	Pass
46	5230	49.62	41.03	Pass

802.11ac (VHT80)

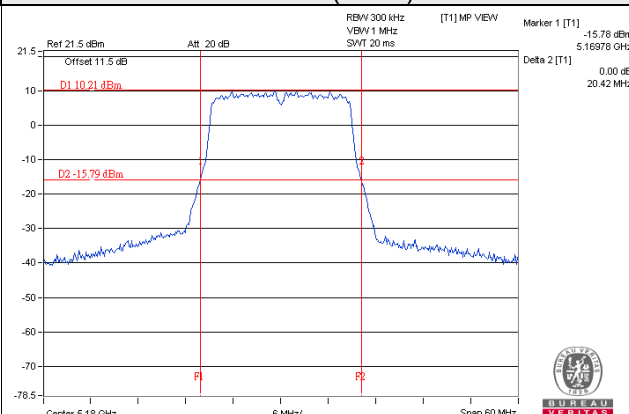
Chan.	Freq. (MHz)	26dBc Bandwidth (MHz)		Pass / Fail
		Chain 0	Chain 1	
42	5210	83.94	83.69	Pass

Spectrum Plot of Worst Value

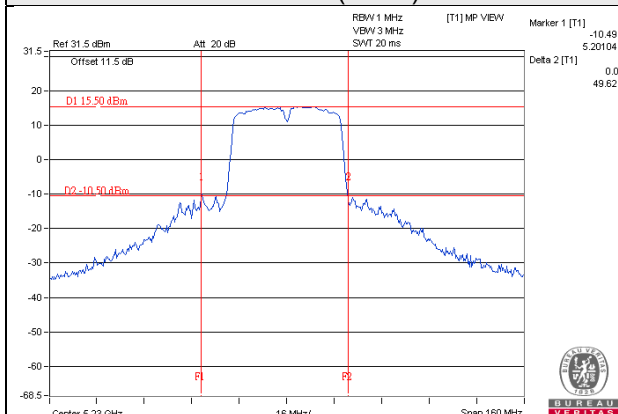
802.11a



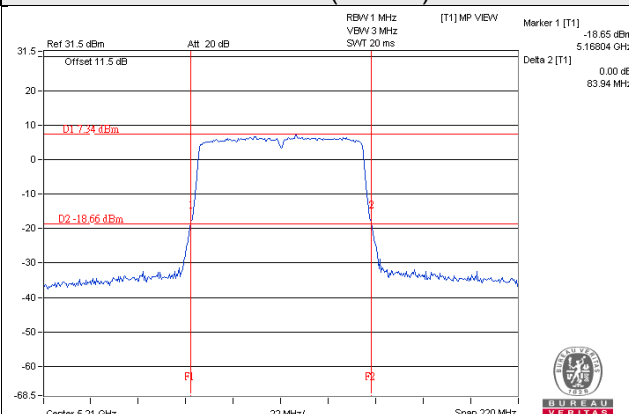
802.11n (HT20)



802.11n (HT40)

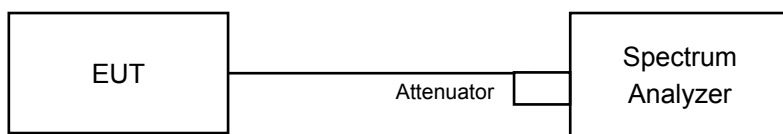


802.11ac (VHT80)



4.4 Occupied Bandwidth Measurement

4.4.1 Test Setup



4.4.2 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

4.4.3 Test Procedure

The transmitter output was connected to the spectrum analyzer through an attenuator. The bandwidth of the fundamental frequency was measured by spectrum analyzer with resolution bandwidth in the range of 1% to 5% of the anticipated emission bandwidth, and a video bandwidth at least 3x the resolution bandwidth and set the detector to sampling. The width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5 %of the total mean power of a given emission.

4.4.4 Test Result

Mode A

For U-NII-1 Band (Outdoor Access Point) & U-NII-3 Band

802.11a

Chan.	Freq. (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
36	5180	16.44	16.44
40	5200	16.44	16.44
48	5240	16.44	16.44
149	5745	16.80	17.28
157	5785	21.12	20.88
165	5825	23.28	20.40

802.11n (HT20)

Chan.	Freq. (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
36	5180	17.64	17.64
40	5200	17.64	17.64
48	5240	17.64	17.64
149	5745	17.92	18.24
157	5785	21.24	22.20
165	5825	24.48	20.64

802.11n (HT40)

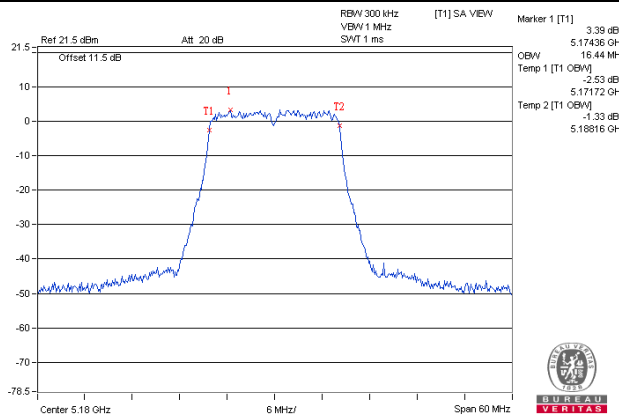
Chan.	Freq. (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
38	5190	36.00	36.12
46	5230	36.00	36.12
151	5755	36.48	36.72
159	5795	37.08	36.96

802.11ac (VHT80)

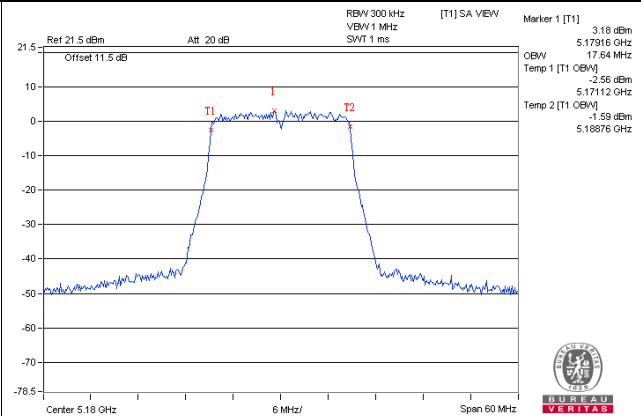
Chan.	Freq. (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
42	5210	75.84	75.84
155	5775	75.84	75.60

Spectrum Plot of Worst Value

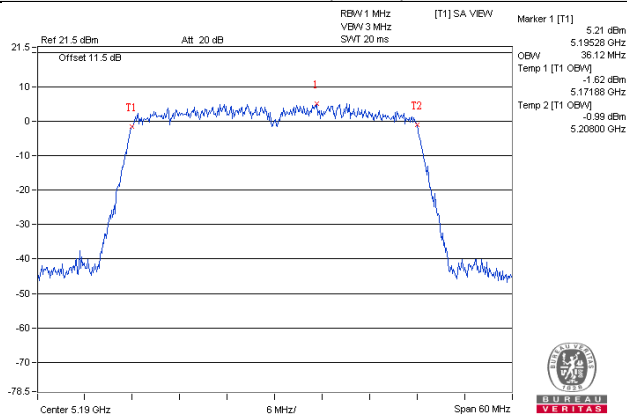
802.11a



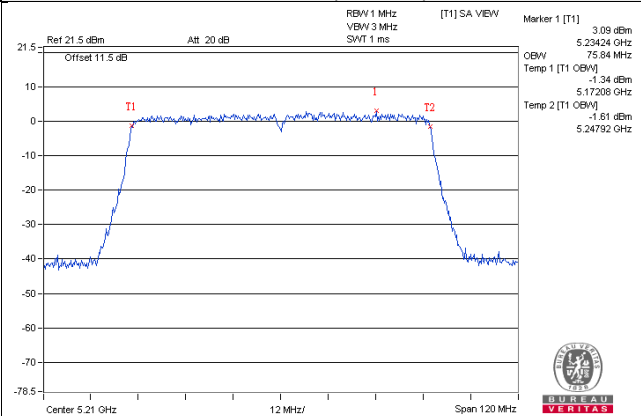
802.11n (HT20)



802.11n (HT40)



802.11ac (VHT80)



For U-NII-1 Band (Indoor Access Point)

802.11a

Chan.	Freq. (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
36	5180	16.44	16.44
40	5200	16.68	16.56
48	5240	16.68	16.44

802.11n (HT20)

Chan.	Freq. (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
36	5180	17.64	17.64
40	5200	17.88	17.76
48	5240	17.76	17.64

802.11n (HT40)

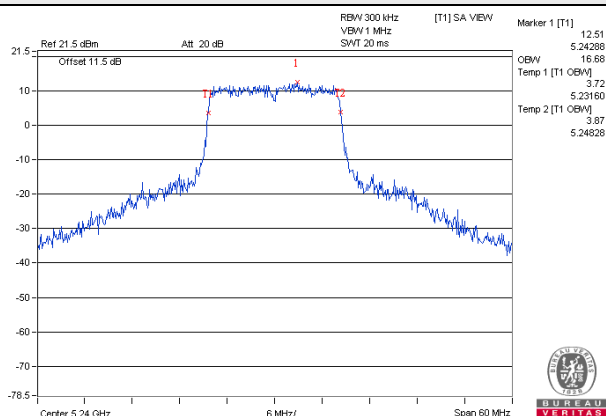
Chan.	Freq. (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
38	5190	36.12	36.12
46	5230	36.36	36.36

802.11ac (VHT80)

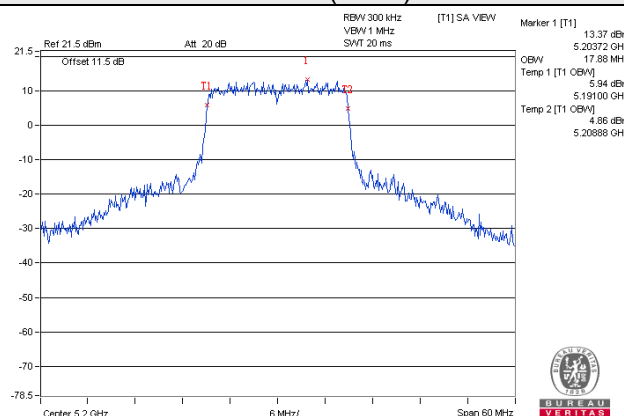
Chan.	Freq. (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
42	5210	76.08	75.84

Spectrum Plot of Worst Value

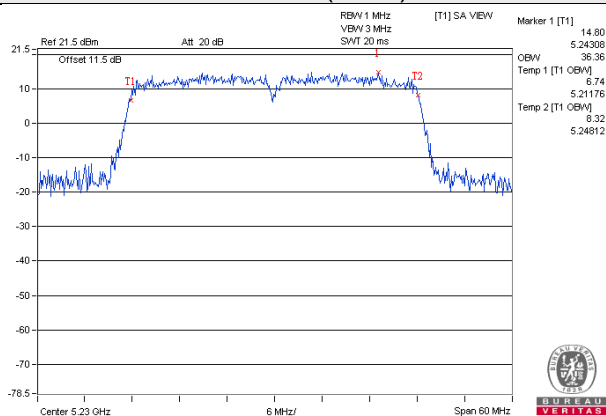
802.11a



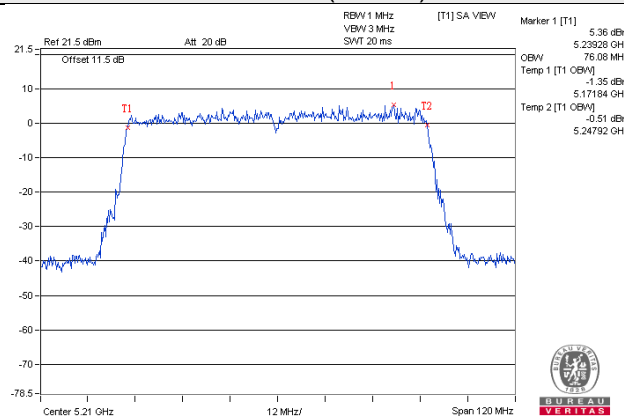
802.11n (HT20)



802.11n (HT40)



802.11ac (VHT80)



Mode B

For U-NII-1 Band (Outdoor Access Point) & U-NII-3 Band

802.11a

Chan.	Freq. (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
36	5180	16.56	16.44
40	5200	16.56	16.44
48	5240	16.44	16.44
149	5745	16.56	16.44
157	5785	16.56	16.44
165	5825	16.68	16.68

802.11n (HT20)

Chan.	Freq. (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
36	5180	17.64	17.64
40	5200	17.64	17.64
48	5240	17.64	17.64
149	5745	17.64	17.76
157	5785	17.64	17.64
165	5825	17.88	17.88

802.11n (HT40)

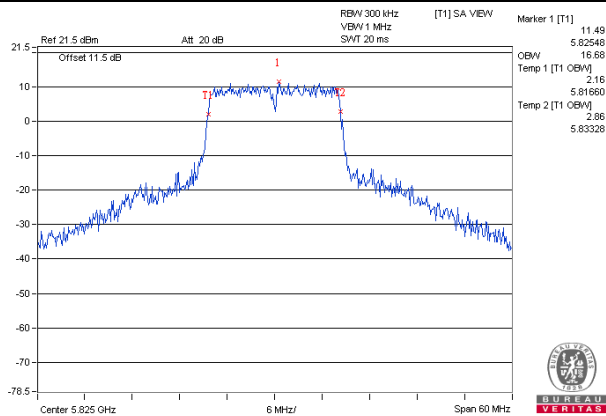
Chan.	Freq. (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
38	5190	36.24	36.12
46	5230	36.12	36.36
151	5755	36.24	36.36
159	5795	36.36	36.36

802.11ac (VHT80)

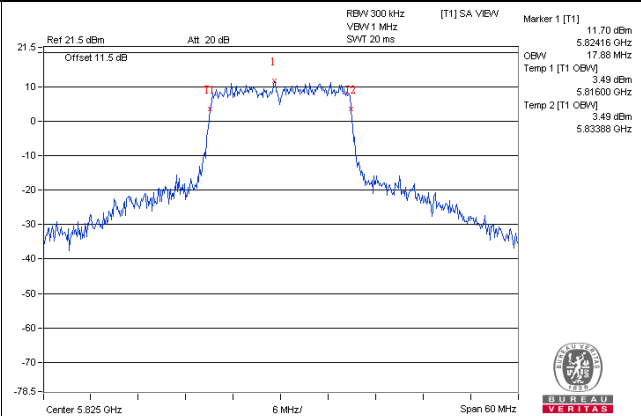
Chan.	Freq. (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
42	5210	75.84	75.84
155	5775	75.84	76.08

Spectrum Plot of Worst Value

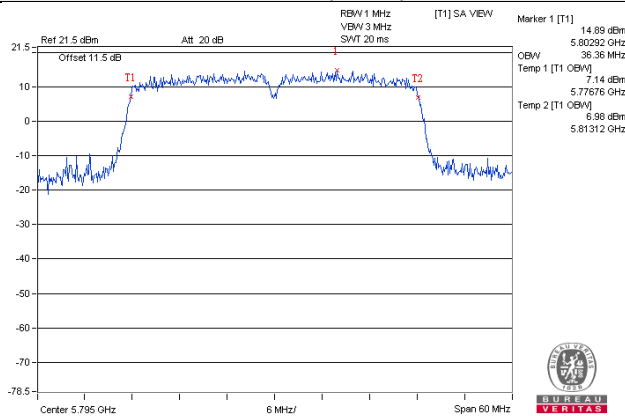
802.11a



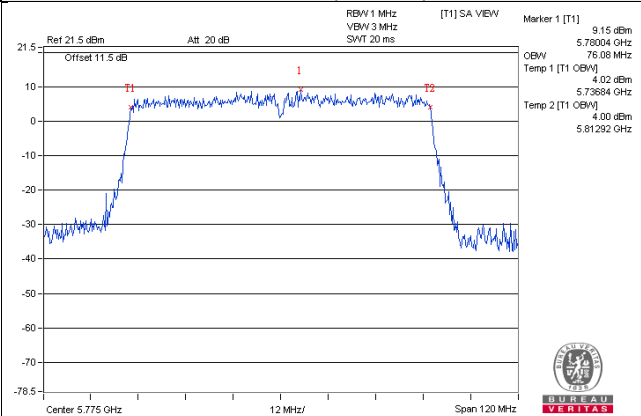
802.11n (HT20)



802.11n (HT40)



802.11ac (VHT80)



For U-NII-1 Band (Indoor Access Point)

802.11a

Chan.	Freq. (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
36	5180	16.44	16.56
40	5200	16.68	16.68
48	5240	16.68	16.56

802.11n (HT20)

Chan.	Freq. (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
36	5180	17.64	17.64
40	5200	17.64	17.76
48	5240	17.88	17.76

802.11n (HT40)

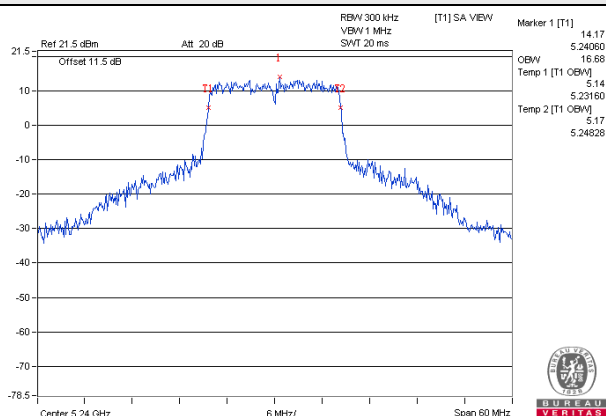
Chan.	Freq. (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
38	5190	36.36	36.24
46	5230	36.36	36.24

802.11ac (VHT80)

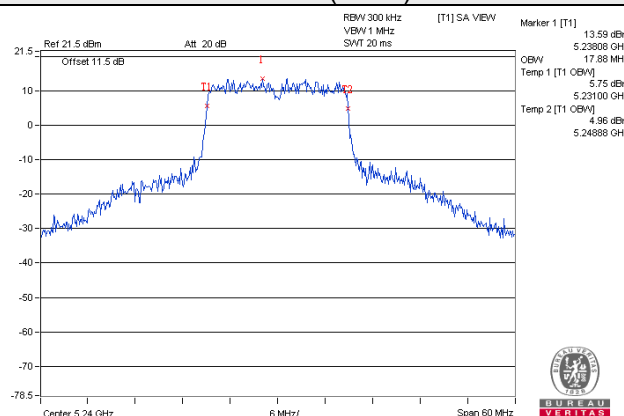
Chan.	Freq. (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
42	5210	75.60	75.60

Spectrum Plot of Worst Value

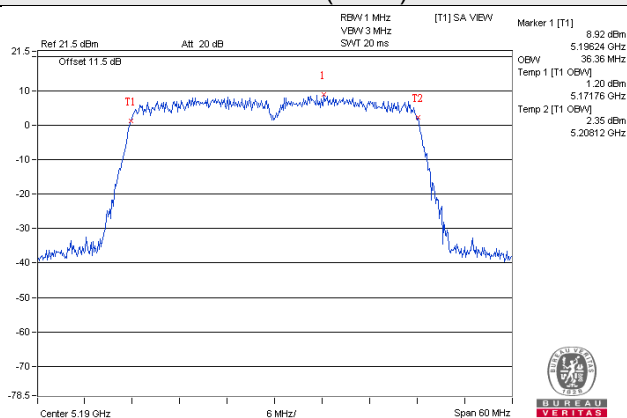
802.11a



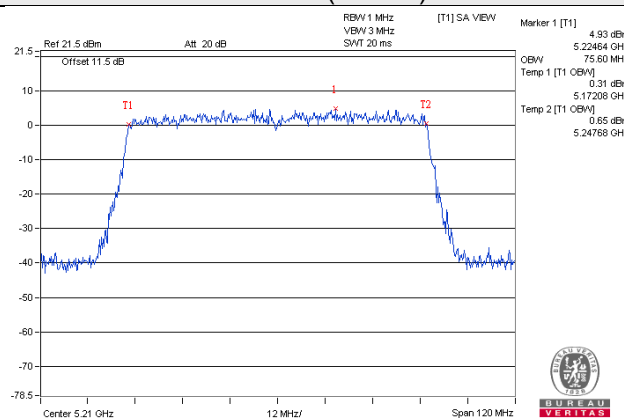
802.11n (HT20)



802.11n (HT40)



802.11ac (VHT80)



Mode C

For U-NII-1 Band (Outdoor Access Point) & U-NII-3 Band

802.11a

Chan.	Freq. (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
36	5180	16.44	16.44
40	5200	16.44	16.44
48	5240	16.44	16.44
149	5745	16.68	16.92
157	5785	16.80	16.80
165	5825	17.28	16.80

802.11n (HT20)

Chan.	Freq. (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
36	5180	17.64	17.64
40	5200	17.64	17.64
48	5240	17.64	17.64
149	5745	17.76	18.00
157	5785	17.88	18.00
165	5825	18.12	18.00

802.11n (HT40)

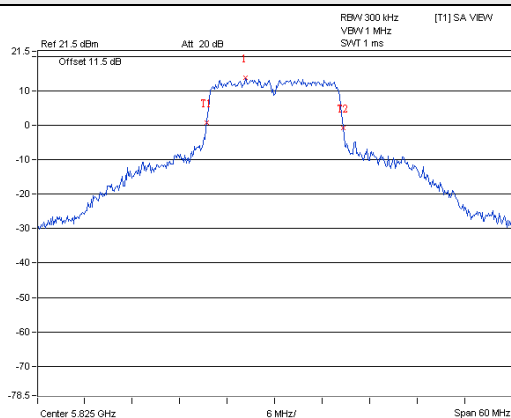
Chan.	Freq. (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
38	5190	36.00	36.00
46	5230	36.12	36.00
151	5755	36.24	36.48
159	5795	36.60	36.60

802.11ac (VHT80)

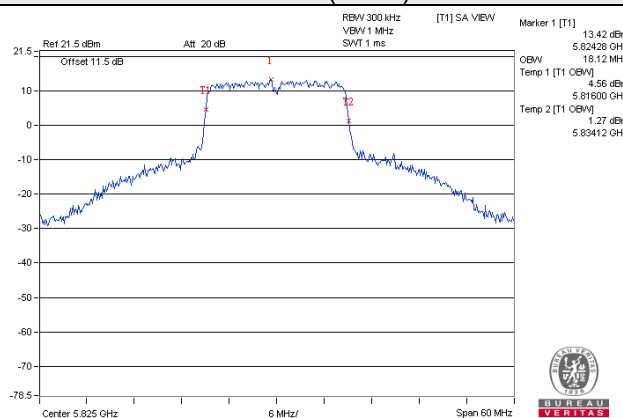
Chan.	Freq. (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
42	5210	75.84	75.84
155	5775	75.84	75.60

Spectrum Plot of Worst Value

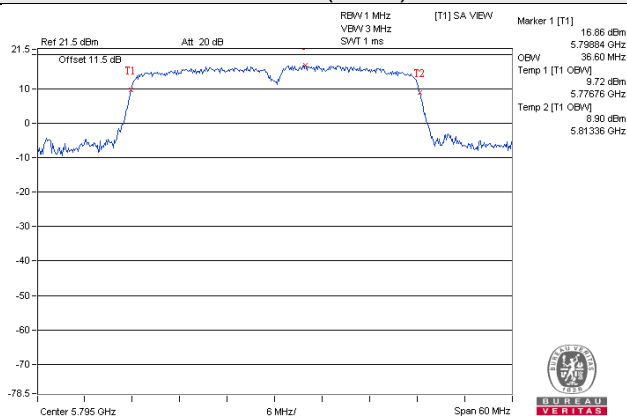
802.11a



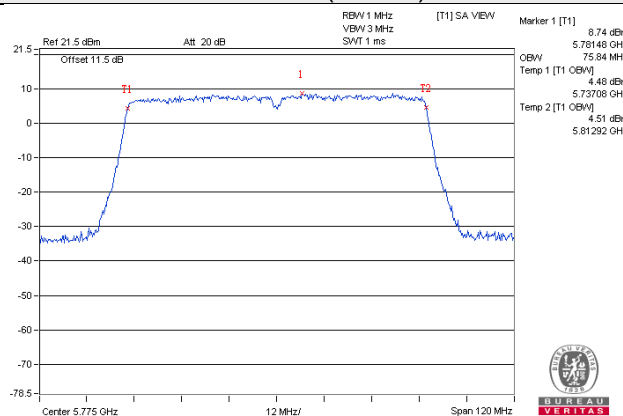
802.11n (HT20)



802.11n (HT40)



802.11ac (VHT80)



For U-NII-1 Band (Indoor Access Point)

802.11a

Chan.	Freq. (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
36	5180	16.44	16.44
40	5200	16.44	16.44
48	5240	16.44	16.44

802.11n (HT20)

Chan.	Freq. (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
36	5180	17.64	17.64
40	5200	17.64	17.64
48	5240	17.64	17.64

802.11n (HT40)

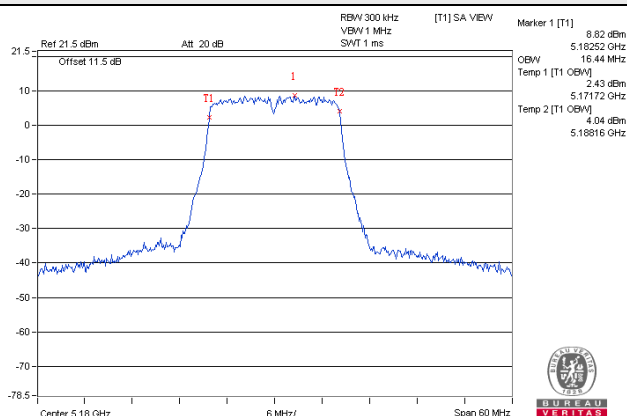
Chan.	Freq. (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
38	5190	36.12	36.00
46	5230	36.12	36.00

802.11ac (VHT80)

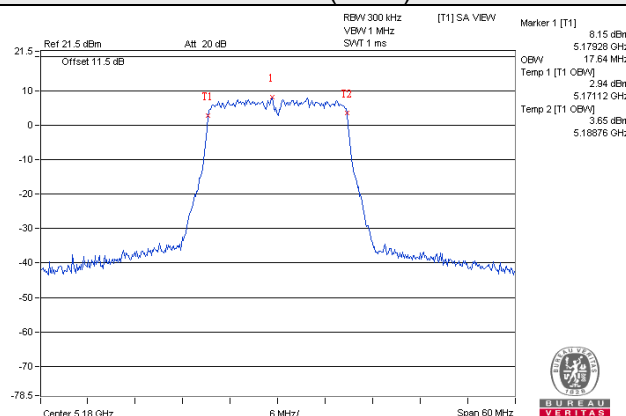
Chan.	Freq. (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
42	5210	75.84	75.84

Spectrum Plot of Worst Value

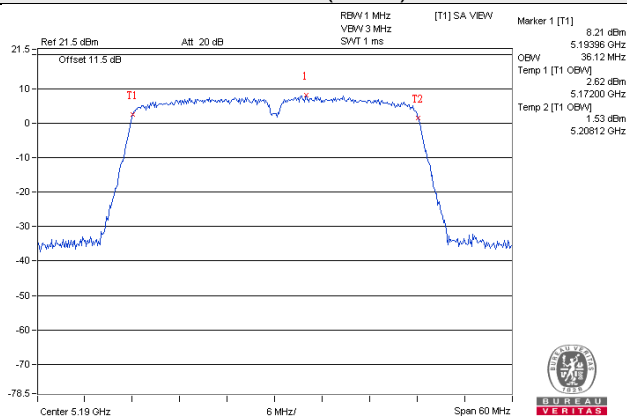
802.11a



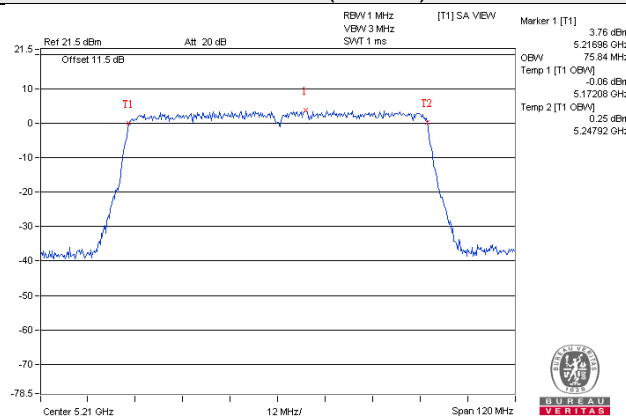
802.11n (HT20)



802.11n (HT40)



802.11ac (VHT80)



Mode D

For U-NII-1 Band (Outdoor Access Point) & U-NII-3 Band

802.11a

Chan.	Freq. (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
36	5180	16.44	16.44
40	5200	16.44	16.44
48	5240	16.44	16.44
149	5745	16.44	16.44
157	5785	16.44	16.44
165	5825	16.44	16.44

802.11n (HT20)

Chan.	Freq. (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
36	5180	17.64	17.64
40	5200	17.64	17.64
48	5240	17.64	17.64
149	5745	17.64	17.64
157	5785	17.64	17.64
165	5825	17.64	17.64

802.11n (HT40)

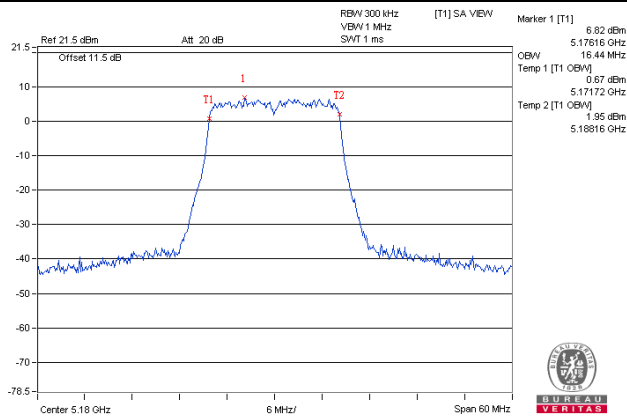
Chan.	Freq. (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
38	5190	36.00	36.00
46	5230	36.00	36.12
151	5755	36.12	36.12
159	5795	36.24	36.36

802.11ac (VHT80)

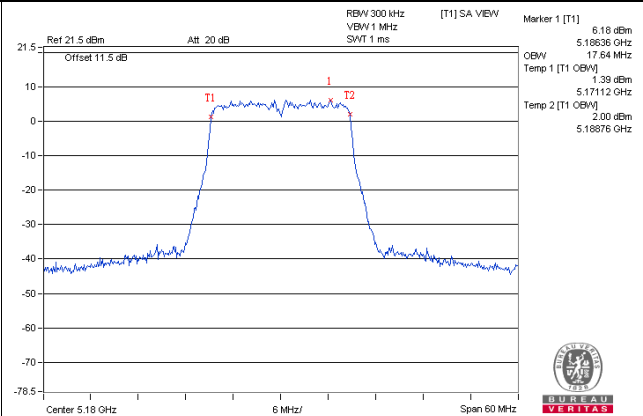
Chan.	Freq. (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
42	5210	75.84	75.84
155	5775	75.84	75.60

Spectrum Plot of Worst Value

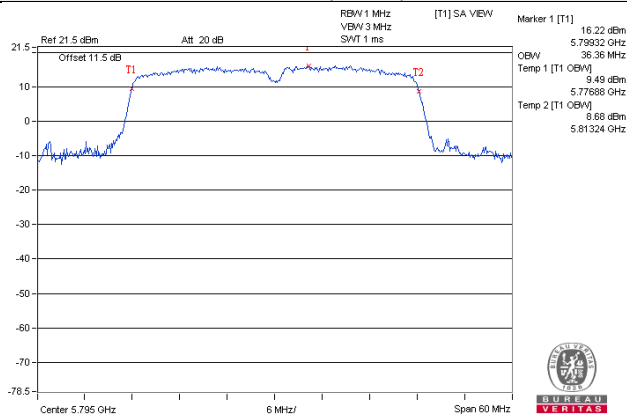
802.11a



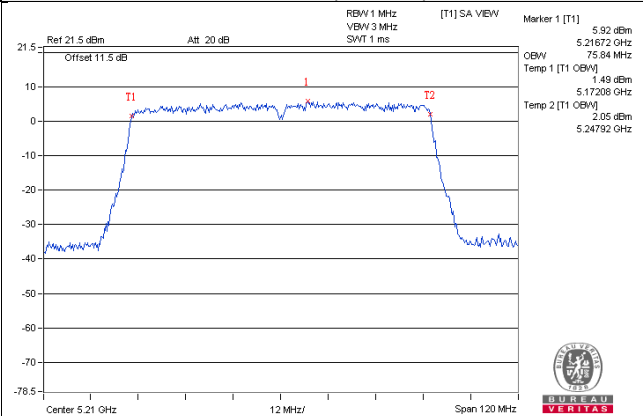
802.11n (HT20)



802.11n (HT40)



802.11ac (VHT80)



For U-NII-1 Band (Indoor Access Point)

802.11a

Chan.	Freq. (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
36	5180	16.44	16.44
40	5200	16.68	16.44
48	5240	16.80	16.56

802.11n (HT20)

Chan.	Freq. (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
36	5180	17.64	17.64
40	5200	17.88	17.88
48	5240	17.76	17.76

802.11n (HT40)

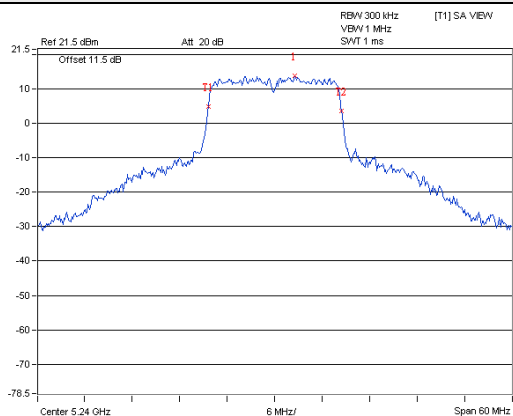
Chan.	Freq. (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
38	5190	36.24	36.00
46	5230	36.24	36.24

802.11ac (VHT80)

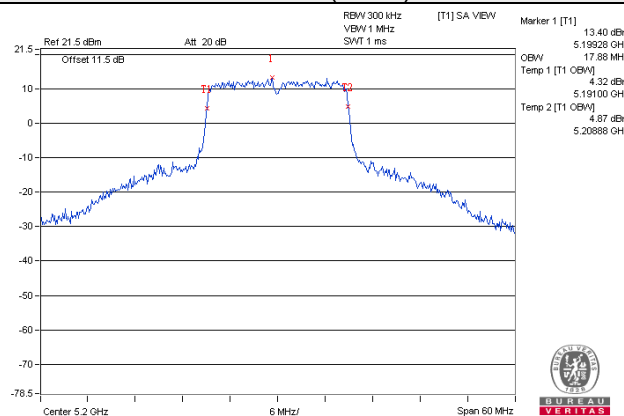
Chan.	Freq. (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
42	5210	75.84	75.84

Spectrum Plot of Worst Value

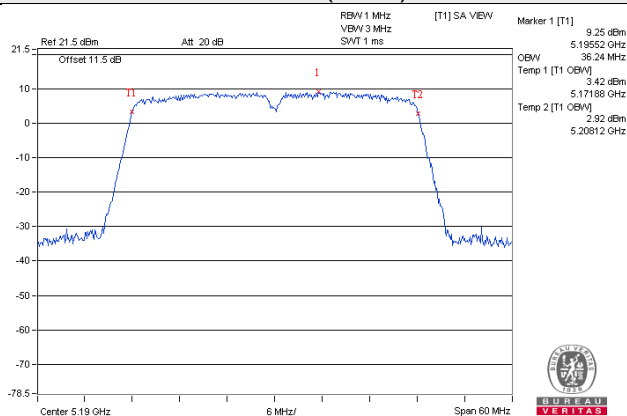
802.11a



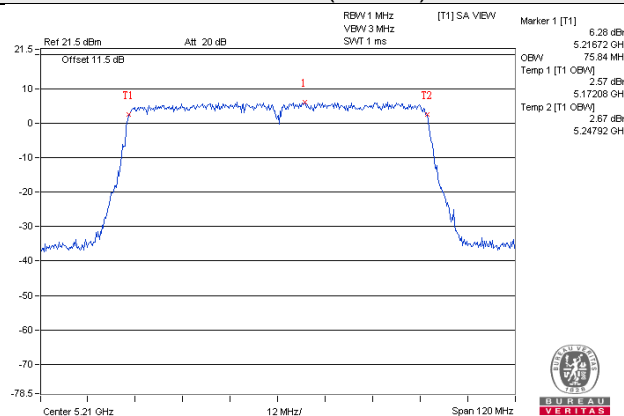
802.11n (HT20)



802.11n (HT40)



802.11ac (VHT80)



Mode E

For U-NII-1 Band (Outdoor Access Point) & U-NII-3 Band

802.11a

Chan.	Freq. (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
36	5180	16.44	16.44
40	5200	16.44	16.44
48	5240	16.44	16.44
149	5745	16.52	16.70
157	5785	16.56	16.56
165	5825	16.68	16.44

802.11n (HT20)

Chan.	Freq. (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
36	5180	17.64	17.64
40	5200	17.64	17.64
48	5240	17.64	17.64
149	5745	17.76	17.88
157	5785	17.76	17.88
165	5825	18.00	17.88

802.11n (HT40)

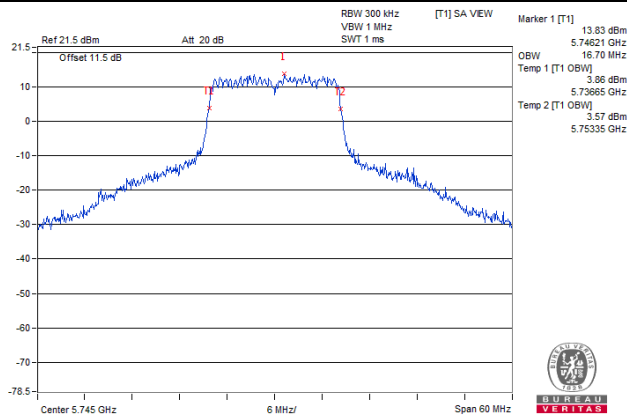
Chan.	Freq. (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
38	5190	36.00	36.00
46	5230	36.12	36.00
151	5755	36.24	36.48
159	5795	36.60	36.60

802.11ac (VHT80)

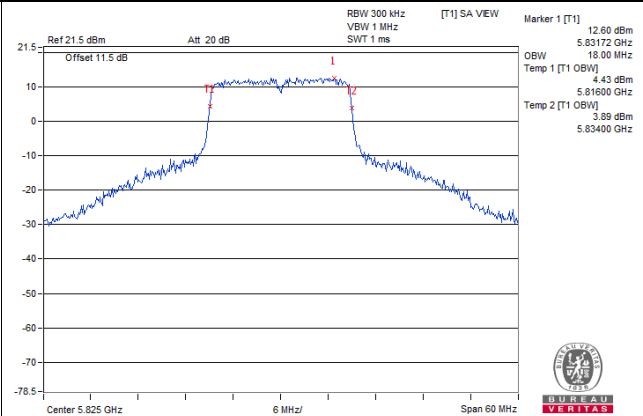
Chan.	Freq. (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
42	5210	75.84	75.84
155	5775	75.84	75.84

Spectrum Plot of Worst Value

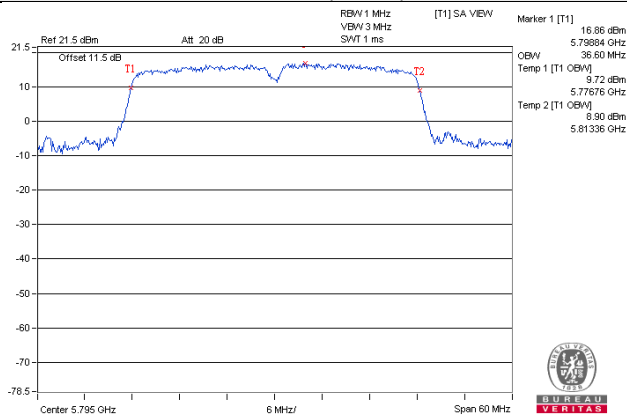
802.11a



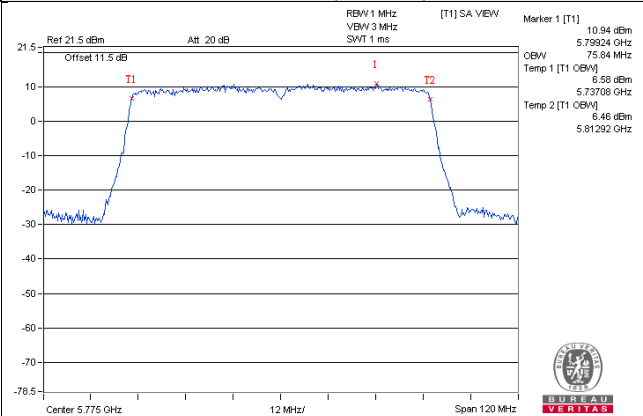
802.11n (HT20)



802.11n (HT40)



802.11ac (VHT80)



For U-NII-1 Band (Indoor Access Point)

802.11a

Chan.	Freq. (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
36	5180	16.44	16.44
40	5200	16.44	16.44
48	5240	16.44	16.44

802.11n (HT20)

Chan.	Freq. (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
36	5180	17.64	17.64
40	5200	17.64	17.64
48	5240	17.64	17.64

802.11n (HT40)

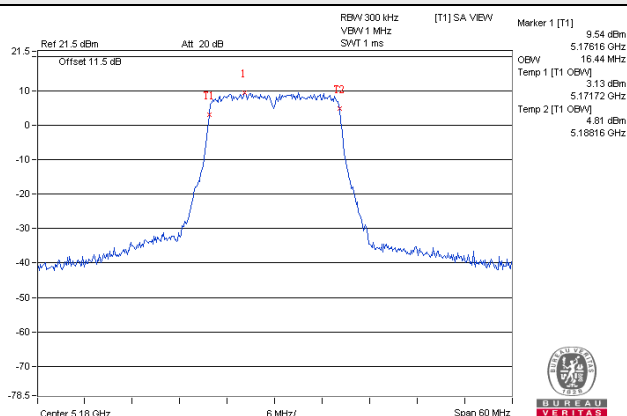
Chan.	Freq. (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
38	5190	36.12	36.24
46	5230	36.24	36.12

802.11ac (VHT80)

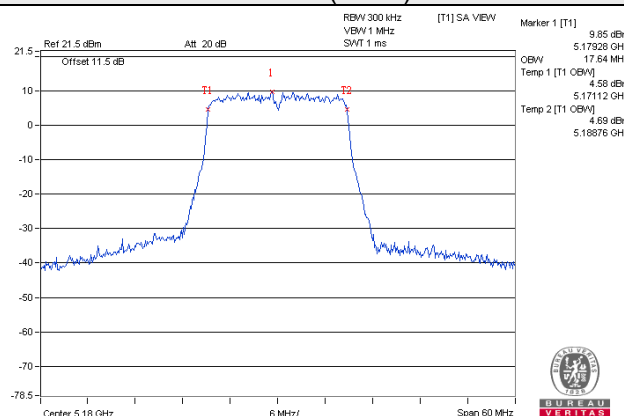
Chan.	Freq. (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
42	5210	75.84	75.84

Spectrum Plot of Worst Value

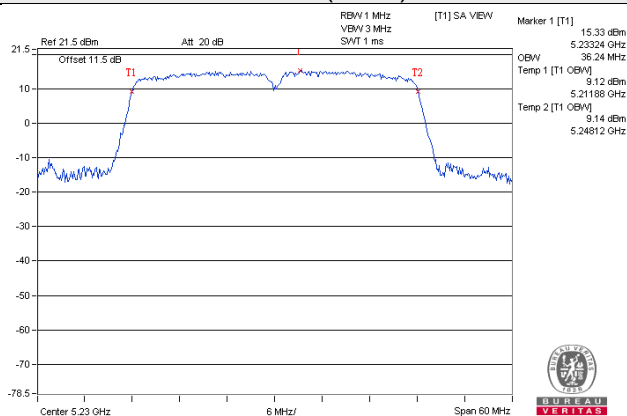
802.11a



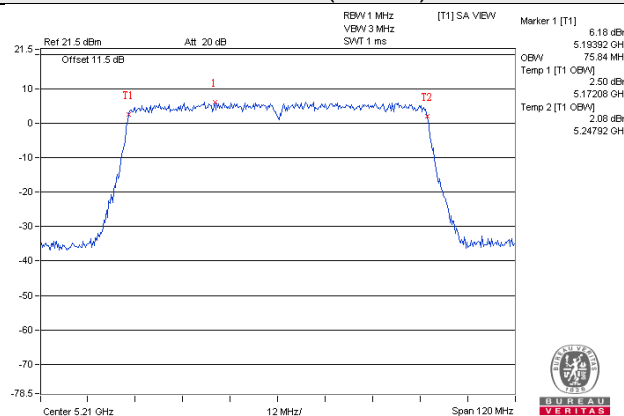
802.11n (HT20)



802.11n (HT40)



802.11ac (VHT80)

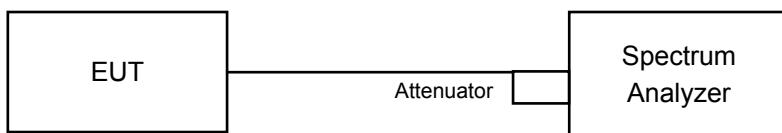


4.5 Peak Power Spectral Density Measurement

4.5.1 Limits of Peak Power Spectral Density Measurement

Operation Band	EUT Category		Limit
U-NII-1	√	Outdoor Access Point	17dBm/ MHz
		Fixed point-to-point Access Point	
	√	Indoor Access Point	
		Mobile and Portable client device	
U-NII-2A			11dBm/ MHz
U-NII-2C			11dBm/ MHz
U-NII-3	√		30dBm/ 500kHz

4.5.2 Test Setup



4.5.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

4.5.4 Test Procedures

For U-NII-1, U-NII-2A, U-NII-2C Band

Duty cycle of test signal is $\geq 98\%$

Using method SA-1

- 1) Set span to encompass the entire emission bandwidth (EBW) of the signal.
- 2) Set RBW = 1MHz, Set VBW ≥ 3 MHz, Detector = RMS.
- 3) Set Channel power measure = 1MHz.
- 4) Sweep time = auto, trigger set to "free run".
- 5) Trace average at least 100 traces in power averaging mode.
- 6) Record the max value.

Duty cycle of test signal is $< 98\%$

Using method SA-2

- 1) Set span to encompass the entire emission bandwidth (EBW) of the signal.
- 2) Set RBW = 1MHz, Set VBW ≥ 3 MHz, Detector = RMS.
- 3) Set Channel power measure = 1MHz.
- 4) Sweep time = auto, trigger set to "free run".
- 5) Trace average at least 100 traces in power averaging mode.
- 6) Record the max value and add $10 \log (1/\text{duty cycle})$.

For U-NII-3 Band

Duty cycle of test signal is $\geq 98\%$

Using method SA-1

- 1) Set span to encompass the entire emission bandwidth (EBW) of the signal.
- 2) Set RBW = 300 kHz, Set VBW ≥ 1 MHz, Detector = RMS.
- 3) Use the peak marker function to determine the maximum power level in any 300 kHz band segment within the fundamental EBW.
- 4) Scale the observed power level to an equivalent value in 500 kHz by adjusting (reducing) the measured power by a bandwidth correction factor (BWCF) where $\text{BWCF} = 10\log(500 \text{ kHz} / 300 \text{ kHz})$.
- 5) Sweep time = auto, trigger set to "free run".
- 6) Trace average at least 100 traces in power averaging mode.
- 7) Record the max value.

Duty cycle of test signal is $< 98\%$

- 1) Set span to encompass the entire emission bandwidth (EBW) of the signal.
- 2) Set RBW = 300 kHz, Set VBW ≥ 1 MHz, Detector = RMS.
- 3) Use the peak marker function to determine the maximum power level in any 300 kHz band segment within the fundamental EBW.
- 4) Scale the observed power level to an equivalent value in 500 kHz by adjusting (reducing) the measured power by a bandwidth correction factor (BWCF) where $\text{BWCF} = 10\log(500 \text{ kHz} / 300 \text{ kHz})$.
- 5) Sweep time = auto, trigger set to "free run".
- 6) Trace average at least 100 traces in power averaging mode.
- 7) Record the max value and add $10 \log (1/\text{duty cycle})$.

4.5.5 Deviation from Test Standard

No deviation.

4.5.6 EUT Operating Conditions

Same as 4.3.6.

4.5.7 Test Results

Mode A

For U-NII-1 Band (Outdoor Access Point)

802.11a

Chan.	Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)		Duty Factor (dB)	Total PSD with Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Pass / Fail
		Chain 0	Chain 1				
36	5180	-0.63	-2.28	0.19	1.82	11.74	Pass
40	5200	-0.70	-2.27	0.19	1.79	11.74	Pass
48	5240	-0.99	-1.95	0.19	1.76	11.74	Pass

Note:

1. Method a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional Gain = $8.25 + 10\log(2) = 11.26\text{dBi} > 6\text{dBi}$, so the limit shall be reduced to $17 - (11.26 - 6) = 11.74\text{dBm}$.
3. Refer to section 3.3 for duty cycle spectrum plot.

802.11n (HT20)

Chan.	Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)		Total PSD (dBm/MHz)	Max. Limit (dBm/MHz)	Pass / Fail
		Chain 0	Chain 1			
36	5180	-1.07	-2.40	1.33	11.74	Pass
40	5200	-1.21	-2.20	1.33	11.74	Pass
48	5240	-1.59	-2.01	1.22	11.74	Pass

Note:

1. Method a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional Gain = $8.25 + 10\log(2) = 11.26\text{dBi} > 6\text{dBi}$, so the limit shall be reduced to $17 - (11.26 - 6) = 11.74\text{dBm}$.

802.11n (HT40)

Chan.	Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)		Duty Factor (dB)	Total PSD with Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Pass / Fail
		Chain 0	Chain 1				
38	5190	-3.59	-5.03	0.16	-1.08	11.74	Pass
46	5230	-3.78	-4.61	0.16	-1.00	11.74	Pass

Note:

1. Method a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional Gain = $8.25 + 10\log(2) = 11.26\text{dBi} > 6\text{dBi}$, so the limit shall be reduced to $17 - (11.26 - 6) = 11.74\text{dBm}$.
3. Refer to section 3.3 for duty cycle spectrum plot.

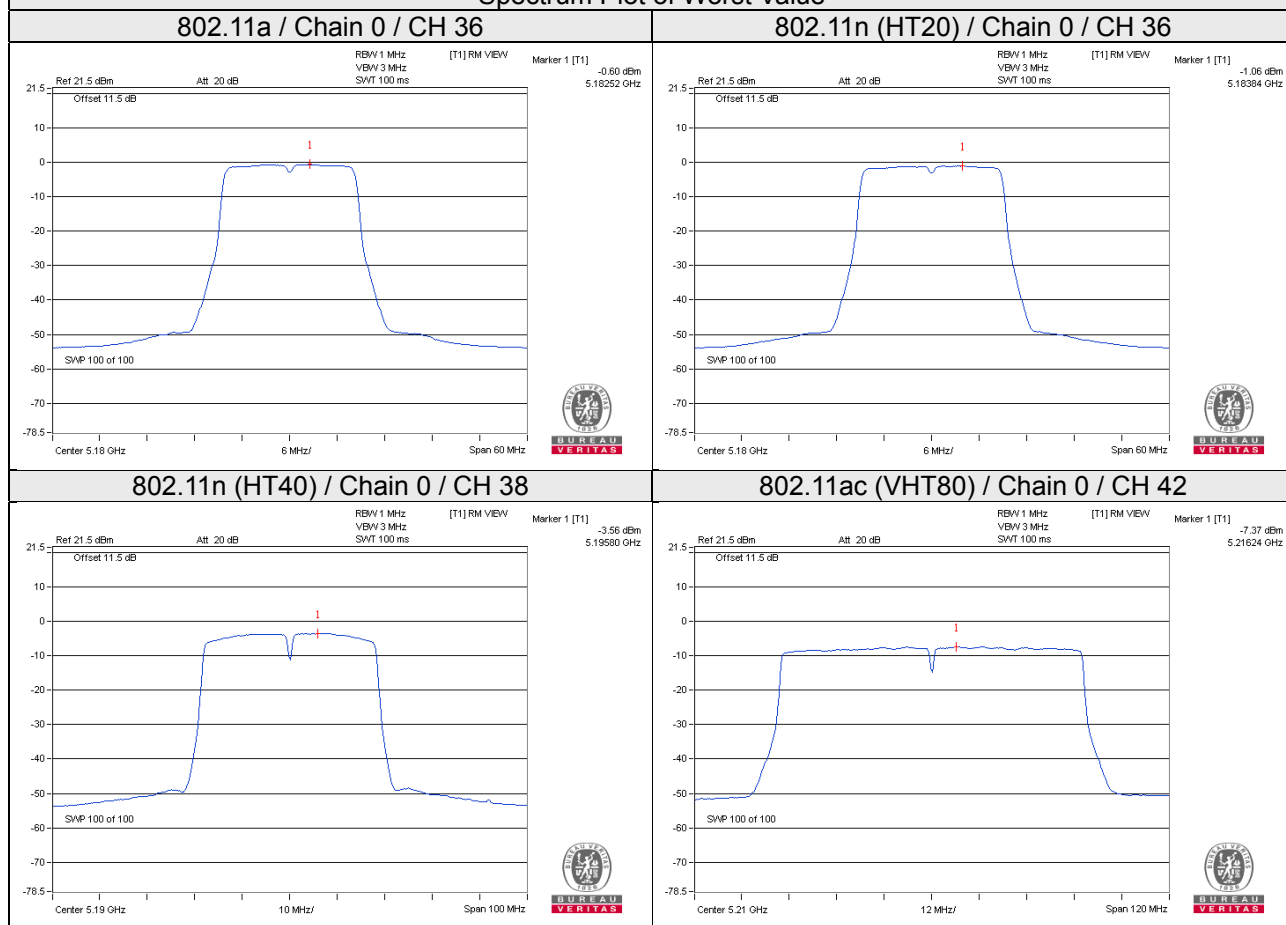
802.11ac (VHT80)

Chan.	Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)		Duty Factor (dB)	Total PSD with Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Pass / Fail
		Chain 0	Chain 1				
42	5210	-7.37	-8.34	0.30	-4.51	11.74	Pass

Note:

- Method a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
- Directional Gain = $8.25 + 10\log(2) = 11.26\text{dBi} > 6\text{dBi}$, so the limit shall be reduced to $17 - (11.26 - 6) = 11.74\text{dBm}$.
- Refer to section 3.3 for duty cycle spectrum plot.

Spectrum Plot of Worst Value



For U-NII-1 Band (Indoor Access Point)

802.11a

Chan.	Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)		Duty Factor (dB)	Total PSD with Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Pass / Fail
		Chain 0	Chain 1				
36	5180	4.41	4.41	0.19	7.61	11.74	Pass
40	5200	8.07	8.48	0.19	11.48	11.74	Pass
48	5240	8.19	8.56	0.19	11.58	11.74	Pass

Note:

1. Method a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional Gain = $8.25 + 10\log(2) = 11.26\text{dBi} > 6\text{dBi}$, so the limit shall be reduced to $17 - (11.26 - 6) = 11.74\text{dBm}$.
3. Refer to section 3.3 for duty cycle spectrum plot.

802.11n (HT20)

Chan.	Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)		Total PSD (dBm/MHz)	Max. Limit (dBm/MHz)	Pass / Fail
		Chain 0	Chain 1			
36	5180	3.05	3.47	6.28	11.74	Pass
40	5200	8.37	8.76	11.58	11.74	Pass
48	5240	8.26	9.02	11.67	11.74	Pass

Note:

1. Method a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional Gain = $8.25 + 10\log(2) = 11.26\text{dBi} > 6\text{dBi}$, so the limit shall be reduced to $17 - (11.26 - 6) = 11.74\text{dBm}$.

802.11n (HT40)

Chan.	Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)		Duty Factor (dB)	Total PSD with Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Pass / Fail
		Chain 0	Chain 1				
38	5190	-1.55	-1.38	0.16	1.71	11.74	Pass
46	5230	5.02	5.43	0.16	8.40	11.74	Pass

Note:

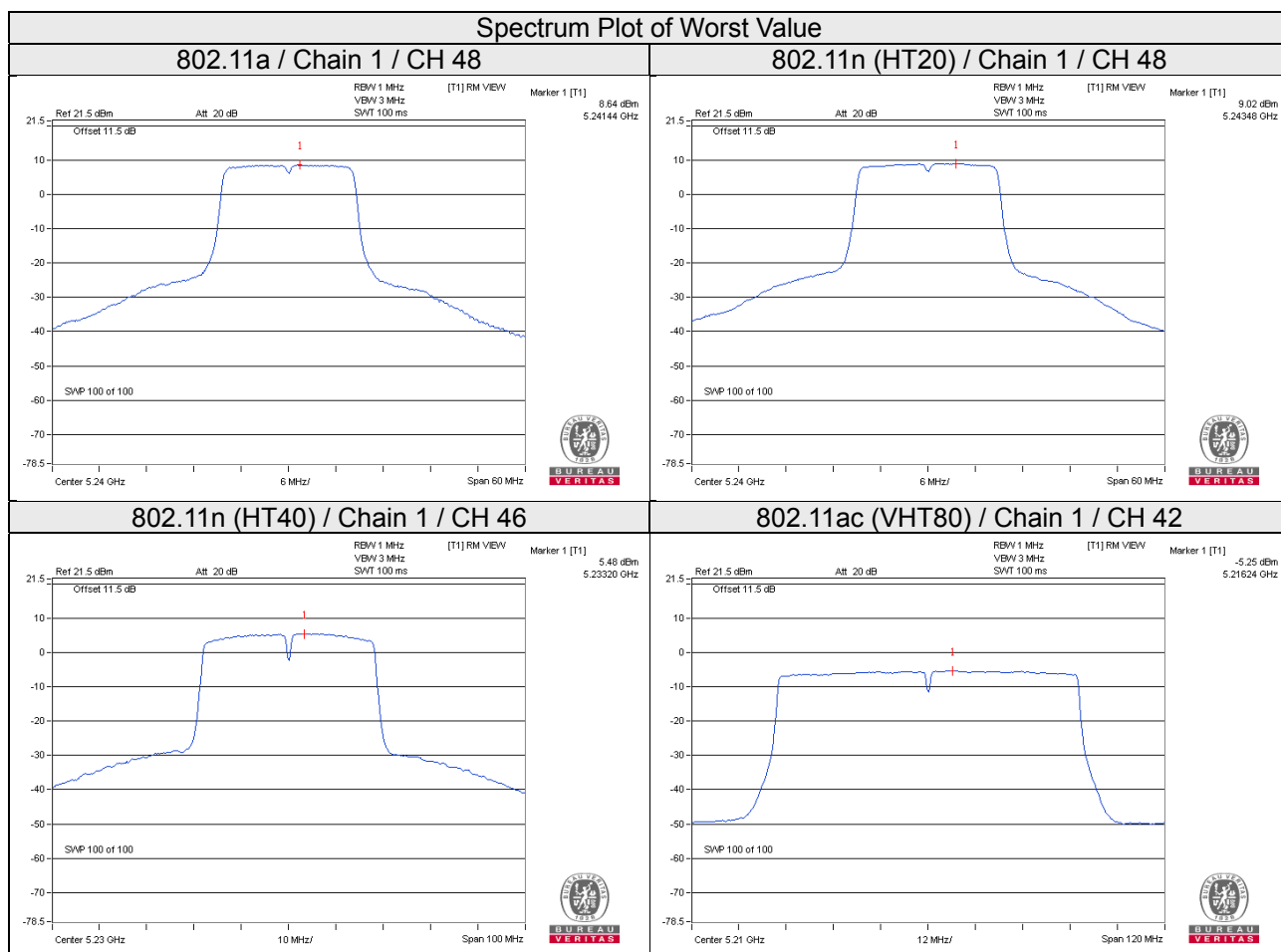
1. Method a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional Gain = $8.25 + 10\log(2) = 11.26\text{dBi} > 6\text{dBi}$, so the limit shall be reduced to $17 - (11.26 - 6) = 11.74\text{dBm}$.
3. Refer to section 3.3 for duty cycle spectrum plot.

802.11ac (VHT80)

Chan.	Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)		Duty Factor (dB)	Total PSD with Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Pass / Fail
		Chain 0	Chain 1				
42	5210	-5.62	-5.25	0.30	-2.11	11.74	Pass

Note:

1. Method a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Gain = 8.25dBi > 6dBi, so the limit shall be reduced to $17 - (8.25 - 6) = 14.75\text{dBm}$.
3. Refer to section 3.3 for duty cycle spectrum plot.



For U-NII-3 Band

802.11a

TX chain	Chan.	Freq. (MHz)	PSD W/O Duty Factor		10 log (N=2) dB	Duty Factor (dB)	Total PSD With Duty Factor (dBm/500kHz)	Limit (dBm/500kHz)	Pass / Fail
			(dBm/300kHz)	(dBm/500kHz)					
0	149	5745	1.76	3.98	3.01	0.19	7.18	24.74	Pass
	157	5785	2.61	4.83	3.01	0.19	8.03	24.74	Pass
	165	5825	2.68	4.90	3.01	0.19	8.10	24.74	Pass
1	149	5745	0.17	2.39	3.01	0.19	5.59	24.74	Pass
	157	5785	1.23	3.45	3.01	0.19	6.65	24.74	Pass
	165	5825	1.44	3.66	3.01	0.19	6.86	24.74	Pass

Note:

1. Method a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional Gain = $8.25 + 10\log(2) = 11.26\text{dBi} > 6\text{dBi}$, so the limit shall be reduced to $30 - (11.26 - 6) = 24.74\text{dBm}$.
3. Refer to section 3.3 for duty cycle spectrum plot.

802.11n (HT20)

TX chain	Chan.	Freq. (MHz)	PSD		10 log (N=2) dB	Total PSD (dBm/500kHz)	Limit (dBm/500kHz)	Pass / Fail
			(dBm/300kHz)	(dBm/500kHz)				
0	149	5745	1.48	3.70	3.01	6.71	24.74	Pass
	157	5785	2.41	4.63	3.01	7.64	24.74	Pass
	165	5825	2.57	4.79	3.01	7.80	24.74	Pass
1	149	5745	0.15	2.37	3.01	5.38	24.74	Pass
	157	5785	1.10	3.32	3.01	6.33	24.74	Pass
	165	5825	1.36	3.58	3.01	6.59	24.74	Pass

Note:

1. Method a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional Gain = $8.25 + 10\log(2) = 11.26\text{dBi} > 6\text{dBi}$, so the limit shall be reduced to $30 - (11.26 - 6) = 24.74\text{dBm}$.

802.11n (HT40)

TX chain	Chan.	Freq. (MHz)	PSD W/O Duty Factor		10 log (N=2) dB	Duty Factor (dB)	Total PSD With Duty Factor (dBm/500kHz)	Limit (dBm/500kHz)	Pass / Fail
			(dBm/300kHz)	(dBm/500kHz)					
0	151	5755	-1.79	0.43	3.01	0.16	3.60	24.74	Pass
	159	5795	-0.93	1.29	3.01	0.16	4.46	24.74	Pass
1	151	5755	-3.05	-0.83	3.01	0.16	2.34	24.74	Pass
	159	5795	-2.28	-0.06	3.01	0.16	3.11	24.74	Pass

Note:

1. Method a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional Gain = $8.25 + 10\log(2) = 11.26\text{dBi} > 6\text{dBi}$, so the limit shall be reduced to $30 - (11.26 - 6) = 24.74\text{dBm}$.
3. Refer to section 3.3 for duty cycle spectrum plot.

802.11ac (VHT80)

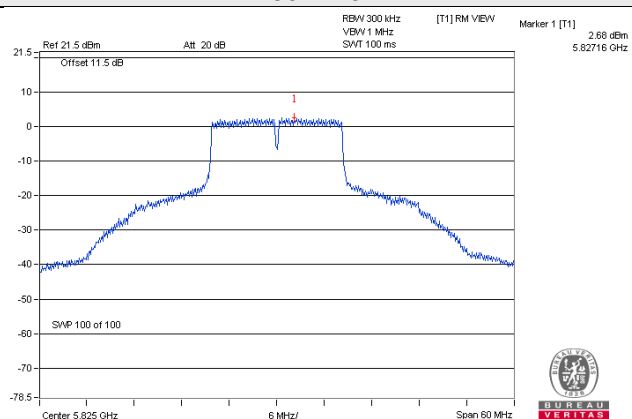
TX chain	Chan.	Freq. (MHz)	PSD W/O Duty Factor		10 log (N=2) dB	Duty Factor (dB)	Total PSD With Duty Factor (dBm/500kHz)	Limit (dBm/500kHz)	Pass / Fail
			(dBm/300kHz)	(dBm/500kHz)					
0	155	5775	-8.78	-6.56	3.01	0.30	-3.25	24.74	Pass
1	155	5775	-10.21	-7.99	3.01	0.30	-4.68	24.74	Pass

Note:

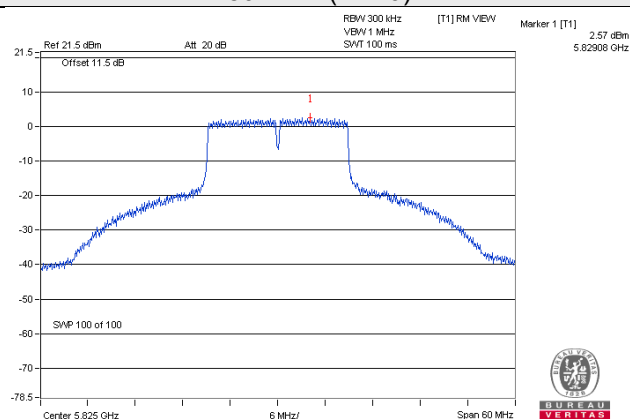
1. Method a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional Gain = $8.25 + 10\log(2) = 11.26\text{dBi} > 6\text{dBi}$, so the limit shall be reduced to $30 - (11.26 - 6) = 24.74\text{dBm}$.
3. Refer to section 3.3 for duty cycle spectrum plot.

Spectrum Plot of Worst Value

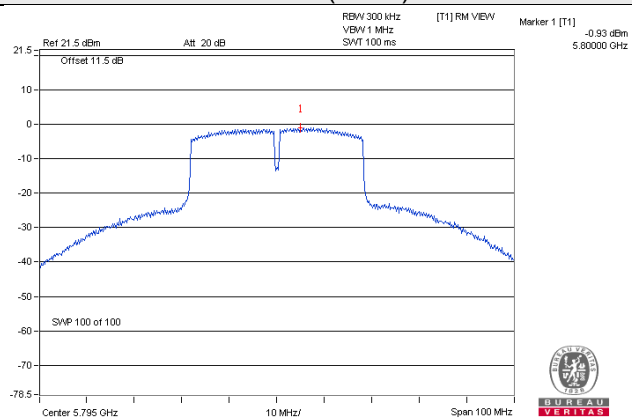
802.11a



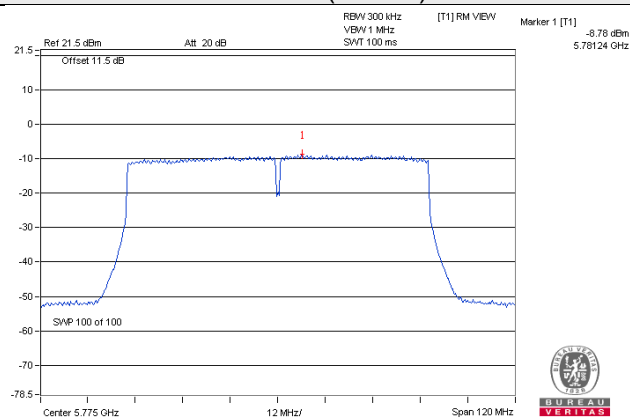
802.11n (HT20)



802.11n (HT40)



802.11ac (VHT80)



Mode B

For U-NII-1 Band (Outdoor Access Point)

802.11a

Chan.	Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)		Duty Factor (dB)	Total PSD with Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Pass / Fail
		Chain 0	Chain 1				
36	5180	-2.00	-1.65	0.19	1.38	14.99	Pass
40	5200	-1.81	-1.46	0.19	1.57	14.99	Pass
48	5240	-1.98	-1.16	0.19	1.65	14.99	Pass

Note:

1. Method a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional Gain = $5 + 10\log(2) = 8.01\text{dBi} > 6\text{dBi}$, so the limit shall be reduced to $17 - (8.01 - 6) = 14.99\text{dBm}$.
3. Refer to section 3.3 for duty cycle spectrum plot.

802.11n (HT20)

Chan.	Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)		Total PSD (dBm/MHz)	Max. Limit (dBm/MHz)	Pass / Fail
		Chain 0	Chain 1			
36	5180	-2.00	-1.68	1.17	14.99	Pass
40	5200	-1.99	-1.46	1.29	14.99	Pass
48	5240	-2.11	-1.22	1.37	14.99	Pass

Note:

1. Method a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional Gain = $5 + 10\log(2) = 8.01\text{dBi} > 6\text{dBi}$, so the limit shall be reduced to $17 - (8.01 - 6) = 14.99\text{dBm}$.

802.11n (HT40)

Chan.	Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)		Duty Factor (dB)	Total PSD with Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Pass / Fail
		Chain 0	Chain 1				
38	5190	-4.29	-4.24	0.16	-1.09	14.99	Pass
46	5230	-4.09	-3.78	0.16	-0.76	14.99	Pass

Note:

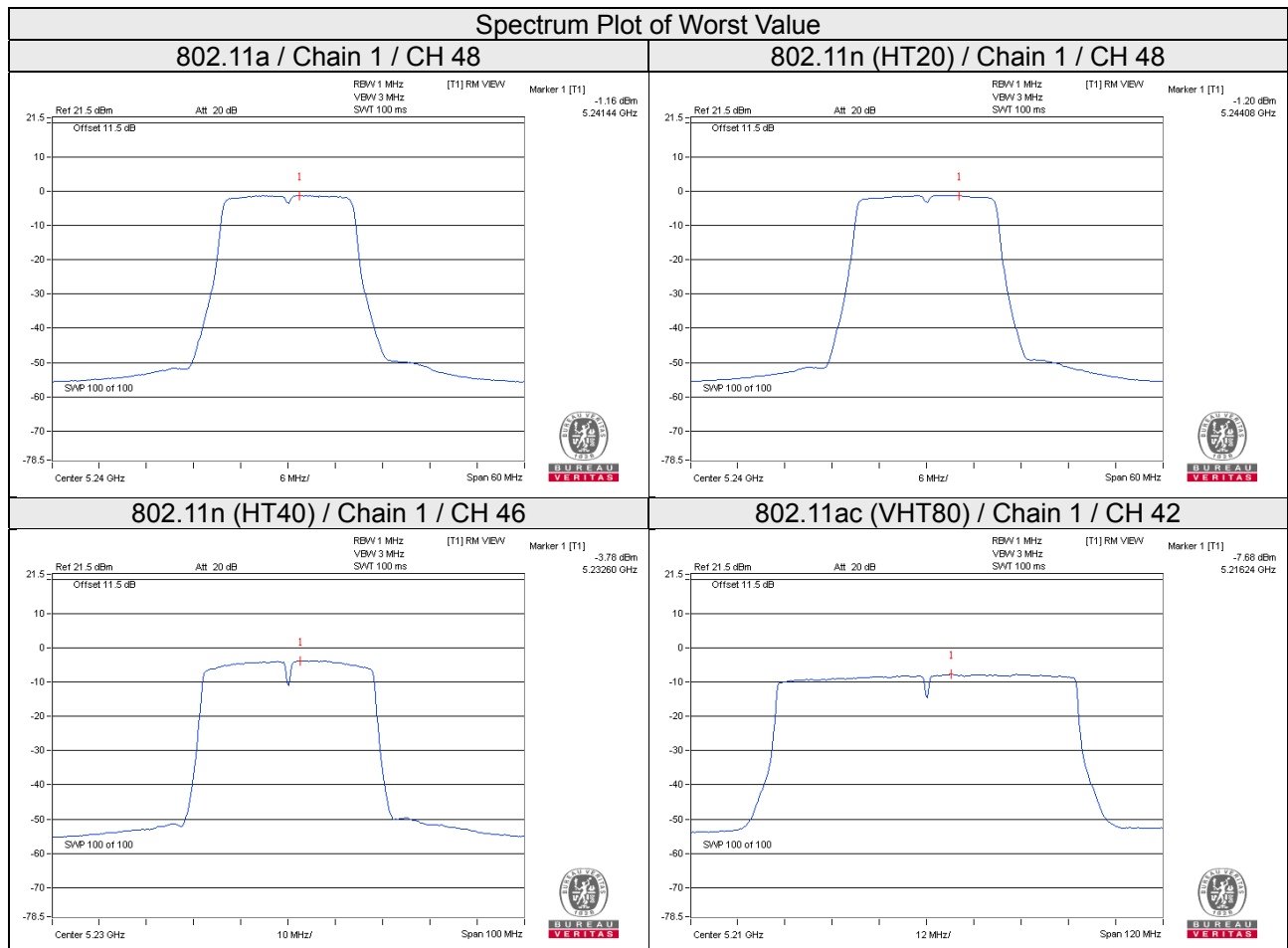
1. Method a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional Gain = $5 + 10\log(2) = 8.01\text{dBi} > 6\text{dBi}$, so the limit shall be reduced to $17 - (8.01 - 6) = 14.99\text{dBm}$.
3. Refer to section 3.3 for duty cycle spectrum plot.

802.11ac (VHT80)

Chan.	Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)		Duty Factor (dB)	Total PSD with Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Pass / Fail
		Chain 0	Chain 1				
42	5210	-7.87	-7.68	0.30	-4.46	14.99	Pass

Note:

- Method a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
- Directional Gain = $5 + 10\log(2) = 8.01\text{dBi} > 6\text{dBi}$, so the limit shall be reduced to $17 - (8.01 - 6) = 14.99\text{dBm}$.
- Refer to section 3.3 for duty cycle spectrum plot.



For U-NII-1 Band (Indoor Access Point)

802.11a

Chan.	Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)		Duty Factor (dB)	Total PSD with Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Pass / Fail
		Chain 0	Chain 1				
36	5180	4.43	4.24	0.19	7.54	14.99	Pass
40	5200	9.09	8.94	0.19	12.22	14.99	Pass
48	5240	9.11	9.14	0.19	12.33	14.99	Pass

Note:

1. Method a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional Gain = $5 + 10\log(2) = 8.01\text{dBi} > 6\text{dBi}$, so the limit shall be reduced to $17 - (8.01 - 6) = 14.99\text{dBm}$.
3. Refer to section 3.3 for duty cycle spectrum plot.

802.11n (HT20)

Chan.	Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)		Total PSD (dBm/MHz)	Max. Limit (dBm/MHz)	Pass / Fail
		Chain 0	Chain 1			
36	5180	3.70	3.69	6.71	14.99	Pass
40	5200	8.39	8.60	11.51	14.99	Pass
48	5240	8.71	9.19	11.97	14.99	Pass

Note:

1. Method a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional Gain = $5 + 10\log(2) = 8.01\text{dBi} > 6\text{dBi}$, so the limit shall be reduced to $17 - (8.01 - 6) = 14.99\text{dBm}$.

802.11n (HT40)

Chan.	Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)		Duty Factor (dB)	Total PSD with Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Pass / Fail
		Chain 0	Chain 1				
38	5190	-1.36	-1.49	0.16	1.75	14.99	Pass
46	5230	5.24	5.36	0.16	8.47	14.99	Pass

Note:

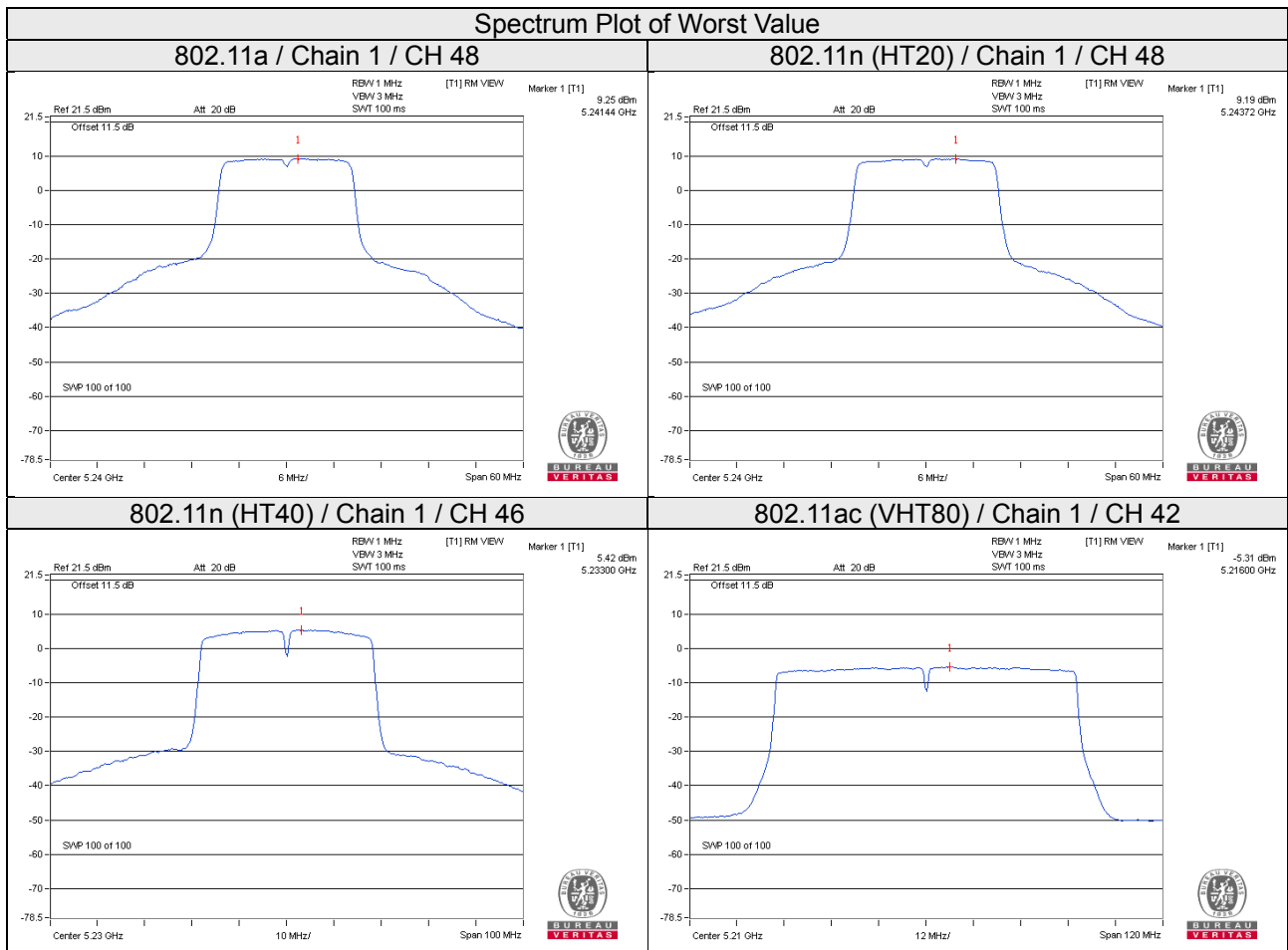
1. Method a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional Gain = $5 + 10\log(2) = 8.01\text{dBi} > 6\text{dBi}$, so the limit shall be reduced to $17 - (8.01 - 6) = 14.99\text{dBm}$.
3. Refer to section 3.3 for duty cycle spectrum plot.

802.11ac (VHT80)

Chan.	Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)		Duty Factor (dB)	Total PSD with Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Pass / Fail
		Chain 0	Chain 1				
42	5210	-5.38	-5.31	0.30	-2.03	14.99	Pass

Note:

1. Method a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional Gain = $5 + 10\log(2) = 8.01\text{dBi} > 6\text{dBi}$, so the limit shall be reduced to $17 - (8.01 - 6) = 14.99\text{dBm}$.
3. Refer to section 3.3 for duty cycle spectrum plot.



For U-NII-3 Band

802.11a

TX chain	Chan.	Freq. (MHz)	PSD W/O Duty Factor		10 log (N=2) dB	Duty Factor (dB)	Total PSD With Duty Factor (dBm/500kHz)	Limit (dBm/500kHz)	Pass / Fail
			(dBm/300kHz)	(dBm/500kHz)					
0	149	5745	-2.39	-0.17	3.01	0.19	3.03	27.99	Pass
	157	5785	-2.64	-0.42	3.01	0.19	2.78	27.99	Pass
	165	5825	-0.96	1.26	3.01	0.19	4.46	27.99	Pass
1	149	5745	-2.46	-0.24	3.01	0.19	2.96	27.99	Pass
	157	5785	-2.24	-0.02	3.01	0.19	3.18	27.99	Pass
	165	5825	-0.49	1.73	3.01	0.19	4.93	27.99	Pass

Note:

1. Method a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional Gain = $5 + 10\log(2) = 8.01\text{dBi} > 6\text{dBi}$, so the limit shall be reduced to $30 - (8.01 - 6) = 27.99\text{dBm}$.
3. Refer to section 3.3 for duty cycle spectrum plot.

802.11n (HT20)

TX chain	Chan.	Freq. (MHz)	PSD		10 log (N=2) dB	Total PSD (dBm/500kHz)	Limit (dBm/500kHz)	Pass / Fail
			(dBm/300kHz)	(dBm/500kHz)				
0	149	5745	-1.81	0.41	3.01	3.42	27.99	Pass
	157	5785	-1.94	0.28	3.01	3.29	27.99	Pass
	165	5825	-0.94	1.28	3.01	4.29	27.99	Pass
1	149	5745	-2.12	0.10	3.01	3.11	27.99	Pass
	157	5785	-1.94	0.28	3.01	3.29	27.99	Pass
	165	5825	-0.46	1.76	3.01	4.77	27.99	Pass

Note:

1. Method a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional Gain = $5 + 10\log(2) = 8.01\text{dBi} > 6\text{dBi}$, so the limit shall be reduced to $30 - (8.01 - 6) = 27.99\text{dBm}$.

802.11n (HT40)

TX chain	Chan.	Freq. (MHz)	PSD W/O Duty Factor		10 log (N=2) dB	Duty Factor (dB)	Total PSD With Duty Factor (dBm/500kHz)	Limit (dBm/500kHz)	Pass / Fail
			(dBm/300kHz)	(dBm/500kHz)					
0	151	5755	-3.55	-1.33	3.01	0.16	1.84	27.99	Pass
	159	5795	-3.33	-1.11	3.01	0.16	2.06	27.99	Pass
1	151	5755	-3.62	-1.40	3.01	0.16	1.77	27.99	Pass
	159	5795	-3.33	-1.11	3.01	0.16	2.06	27.99	Pass

Note:

1. Method a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional Gain = $5 + 10\log(2) = 8.01\text{dBi} > 6\text{dBi}$, so the limit shall be reduced to $30 - (8.01 - 6) = 27.99\text{dBm}$.
3. Refer to section 3.3 for duty cycle spectrum plot.

802.11ac (VHT80)

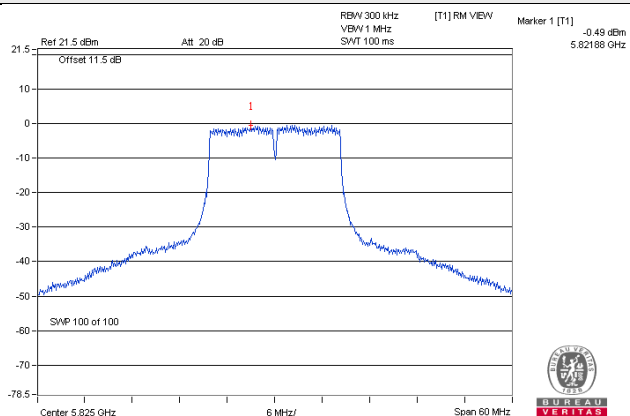
TX chain	Chan.	Freq. (MHz)	PSD W/O Duty Factor		10 log (N=2) dB	Duty Factor (dB)	Total PSD With Duty Factor (dBm/500kHz)	Limit (dBm/500kHz)	Pass / Fail
			(dBm/300kHz)	(dBm/500kHz)					
0	155	5775	-9.73	-7.51	3.01	0.30	-4.20	27.99	Pass
1	155	5775	-9.87	-7.65	3.01	0.30	-4.34	27.99	Pass

Note:

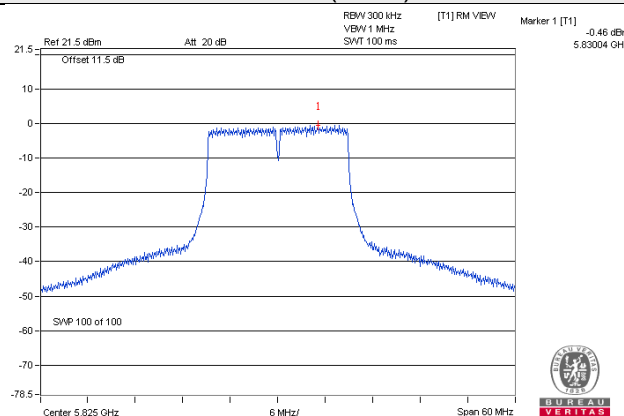
1. Method a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional Gain = $5 + 10\log(2) = 8.01\text{dBi} > 6\text{dBi}$, so the limit shall be reduced to $30 - (8.01 - 6) = 27.99\text{dBm}$.
3. Refer to section 3.3 for duty cycle spectrum plot.

Spectrum Plot of Worst Value

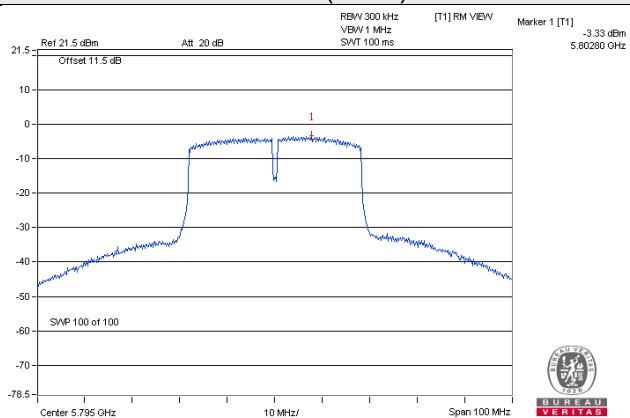
802.11a



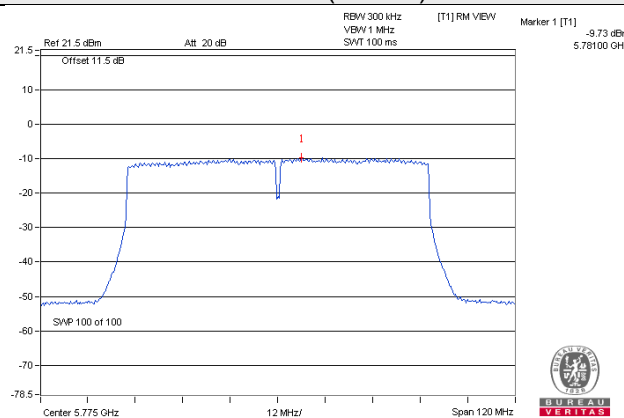
802.11n (HT20)



802.11n (HT40)



802.11ac (VHT80)



Mode C

For U-NII-1 Band (Outdoor Access Point)

802.11a

Chan.	Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)		Duty Factor (dB)	Total PSD with Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Pass / Fail
		Chain 0	Chain 1				
36	5180	-2.36	-2.15	0.19	0.95	9.29	Pass
40	5200	-2.43	-2.11	0.19	0.93	9.29	Pass
48	5240	-2.61	-2.14	0.19	0.83	9.29	Pass

Note:

1. Method a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional Gain = $10.7 + 10\log(2) = 13.71\text{dBi} > 6\text{dBi}$, so the limit shall be reduced to $17 - (13.71 - 6) = 9.29\text{dBm}$.
3. Refer to section 3.3 for duty cycle spectrum plot.

802.11n (HT20)

Chan.	Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)		Total PSD (dBm/MHz)	Max. Limit (dBm/MHz)	Pass / Fail
		Chain 0	Chain 1			
36	5180	-2.55	-2.26	0.61	9.29	Pass
40	5200	-2.64	-2.17	0.61	9.29	Pass
48	5240	-2.95	-2.22	0.44	9.29	Pass

Note:

1. Method a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional Gain = $10.7 + 10\log(2) = 13.71\text{dBi} > 6\text{dBi}$, so the limit shall be reduced to $17 - (13.71 - 6) = 9.29\text{dBm}$.

802.11n (HT40)

Chan.	Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)		Duty Factor (dB)	Total PSD with Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Pass / Fail
		Chain 0	Chain 1				
38	5190	-5.23	-4.98	0.16	-1.93	9.29	Pass
46	5230	-5.24	-4.95	0.16	-1.92	9.29	Pass

Note:

1. Method a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional Gain = $10.7 + 10\log(2) = 13.71\text{dBi} > 6\text{dBi}$, so the limit shall be reduced to $17 - (13.71 - 6) = 9.29\text{dBm}$.
3. Refer to section 3.3 for duty cycle spectrum plot.

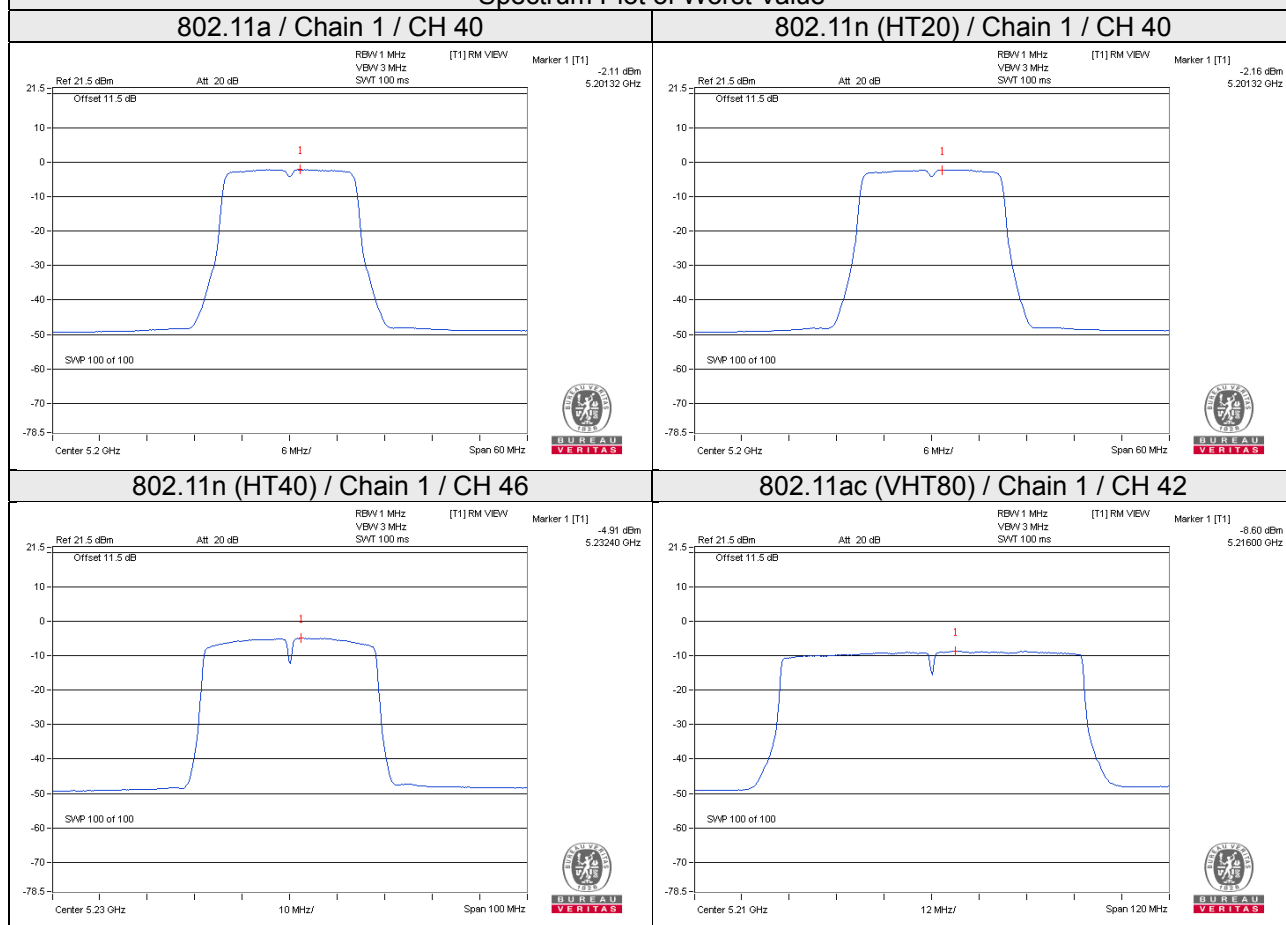
802.11ac (VHT80)

Chan.	Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)		Duty Factor (dB)	Total PSD with Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Pass / Fail
		Chain 0	Chain 1				
42	5210	-9.01	-8.60	0.30	-5.49	9.29	Pass

Note:

1. Method a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional Gain = $10.7 + 10\log(2) = 13.71\text{dBi} > 6\text{dBi}$, so the limit shall be reduced to $17 - (13.71 - 6) = 9.29\text{dBm}$.
3. Refer to section 3.3 for duty cycle spectrum plot.

Spectrum Plot of Worst Value



For U-NII-1 Band (Indoor Access Point)

802.11a

Chan.	Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)		Duty Factor (dB)	Total PSD with Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Pass / Fail
		Chain 0	Chain 1				
36	5180	4.58	4.80	0.19	7.89	9.29	Pass
40	5200	5.67	5.80	0.19	8.94	9.29	Pass
48	5240	5.41	5.89	0.19	8.86	9.29	Pass

Note:

1. Method a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional Gain = $10.7 + 10\log(2) = 13.71\text{dBi} > 6\text{dBi}$, so the limit shall be reduced to $17 - (13.71 - 6) = 9.29\text{dBm}$.
3. Refer to section 3.3 for duty cycle spectrum plot.

802.11n (HT20)

Chan.	Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)		Total PSD (dBm/MHz)	Max. Limit (dBm/MHz)	Pass / Fail
		Chain 0	Chain 1			
36	5180	3.74	4.18	6.98	9.29	Pass
40	5200	5.73	6.18	8.97	9.29	Pass
48	5240	5.50	6.28	8.92	9.29	Pass

Note:

1. Method a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional Gain = $10.7 + 10\log(2) = 13.71\text{dBi} > 6\text{dBi}$, so the limit shall be reduced to $17 - (13.71 - 6) = 9.29\text{dBm}$.

802.11n (HT40)

Chan.	Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)		Duty Factor (dB)	Total PSD with Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Pass / Fail
		Chain 0	Chain 1				
38	5190	-1.92	-1.45	0.16	1.50	9.29	Pass
46	5230	4.47	4.94	0.16	7.89	9.29	Pass

Note:

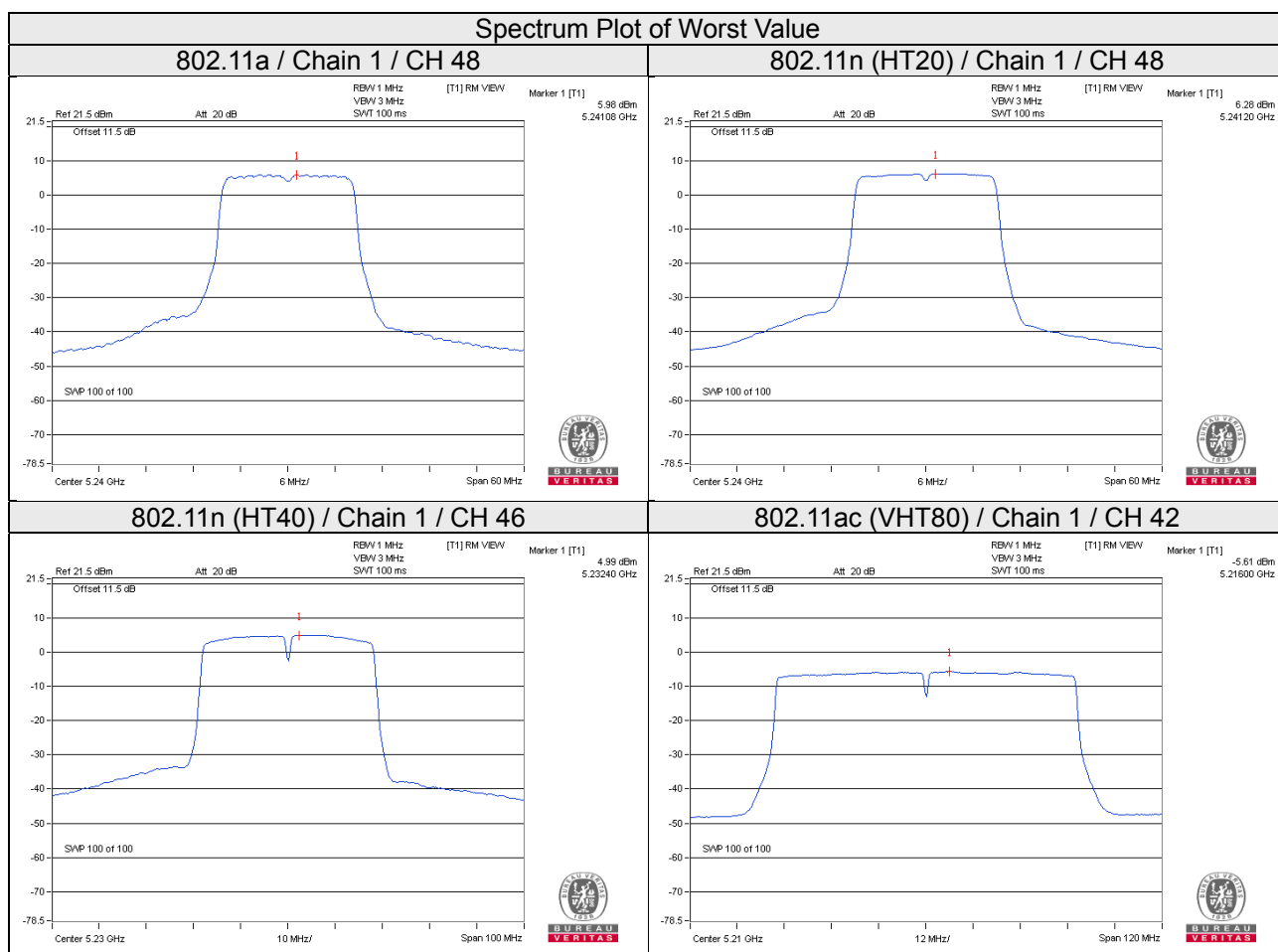
1. Method a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional Gain = $10.7 + 10\log(2) = 13.71\text{dBi} > 6\text{dBi}$, so the limit shall be reduced to $17 - (13.71 - 6) = 9.29\text{dBm}$.
3. Refer to section 3.3 for duty cycle spectrum plot.

802.11ac (VHT80)

Chan.	Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)		Duty Factor (dB)	Total PSD with Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Pass / Fail
		Chain 0	Chain 1				
42	5210	-6.09	-5.61	0.30	-2.53	9.29	Pass

Note:

1. Method a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional Gain = $10.7 + 10\log(2) = 13.71\text{dBi} > 6\text{dBi}$, so the limit shall be reduced to $17 - (13.71 - 6) = 9.29\text{dBm}$.
3. Refer to section 3.3 for duty cycle spectrum plot.



For U-NII-3 Band

802.11a

TX chain	Chan.	Freq. (MHz)	PSD W/O Duty Factor		10 log (N=2) dB	Duty Factor (dB)	Total PSD With Duty Factor (dBm/500kHz)	Limit (dBm/500kHz)	Pass / Fail
			(dBm/300kHz)	(dBm/500kHz)					
0	149	5745	1.19	3.41	3.01	0.19	6.61	22.29	Pass
	157	5785	1.33	3.55	3.01	0.19	6.75	22.29	Pass
	165	5825	1.20	3.42	3.01	0.19	6.62	22.29	Pass
1	149	5745	1.41	3.63	3.01	0.19	6.83	22.29	Pass
	157	5785	1.67	3.89	3.01	0.19	7.09	22.29	Pass
	165	5825	1.81	4.03	3.01	0.19	7.23	22.29	Pass

Note:

1. Method a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional Gain = $10.7 + 10\log(2) = 13.71\text{dBi} > 6\text{dBi}$, so the limit shall be reduced to $30 - (13.71 - 6) = 22.29\text{dBm}$.
3. Refer to section 3.3 for duty cycle spectrum plot.

802.11n (HT20)

TX chain	Chan.	Freq. (MHz)	PSD		10 log (N=2) dB	Total PSD (dBm/500kHz)	Limit (dBm/500kHz)	Pass / Fail
			(dBm/300kHz)	(dBm/500kHz)				
0	149	5745	0.95	3.17	3.01	6.18	22.29	Pass
	157	5785	0.96	3.18	3.01	6.19	22.29	Pass
	165	5825	1.09	3.31	3.01	6.32	22.29	Pass
1	149	5745	1.07	3.29	3.01	6.30	22.29	Pass
	157	5785	1.48	3.70	3.01	6.71	22.29	Pass
	165	5825	1.71	3.93	3.01	6.94	22.29	Pass

Note:

1. Method a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional Gain = $10.7 + 10\log(2) = 13.71\text{dBi} > 6\text{dBi}$, so the limit shall be reduced to $30 - (13.71 - 6) = 22.29\text{dBm}$.

802.11n (HT40)

TX chain	Chan.	Freq. (MHz)	PSD W/O Duty Factor		10 log (N=2) dB	Duty Factor (dB)	Total PSD With Duty Factor (dBm/500kHz)	Limit (dBm/500kHz)	Pass / Fail
			(dBm/300kHz)	(dBm/500kHz)					
0	151	5755	-2.27	-0.05	3.01	0.16	3.12	22.29	Pass
	159	5795	-1.74	0.48	3.01	0.16	3.65	22.29	Pass
1	151	5755	-2.03	0.19	3.01	0.16	3.36	22.29	Pass
	159	5795	-1.23	0.99	3.01	0.16	4.16	22.29	Pass

Note:

1. Method a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional Gain = $10.7 + 10\log(2) = 13.71\text{dBi} > 6\text{dBi}$, so the limit shall be reduced to $30 - (13.71 - 6) = 22.29\text{dBm}$.
3. Refer to section 3.3 for duty cycle spectrum plot.

802.11ac (VHT80)

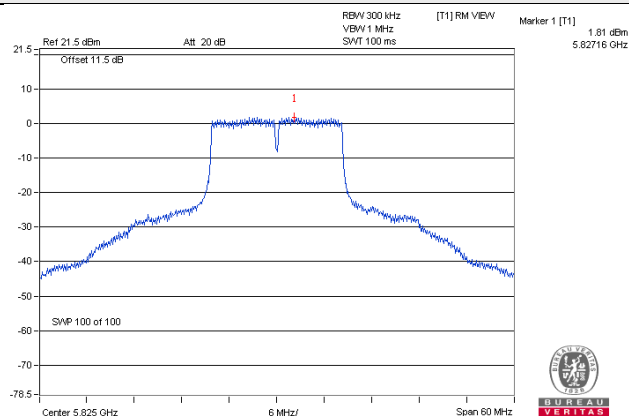
TX chain	Chan.	Freq. (MHz)	PSD W/O Duty Factor		10 log (N=2) dB	Duty Factor (dB)	Total PSD With Duty Factor (dBm/500kHz)	Limit (dBm/500kHz)	Pass / Fail
			(dBm/300kHz)	(dBm/500kHz)					
0	155	5775	-10.17	-7.95	3.01	0.30	-4.64	22.29	Pass
1	155	5775	-10.15	-7.93	3.01	0.30	-4.62	22.29	Pass

Note:

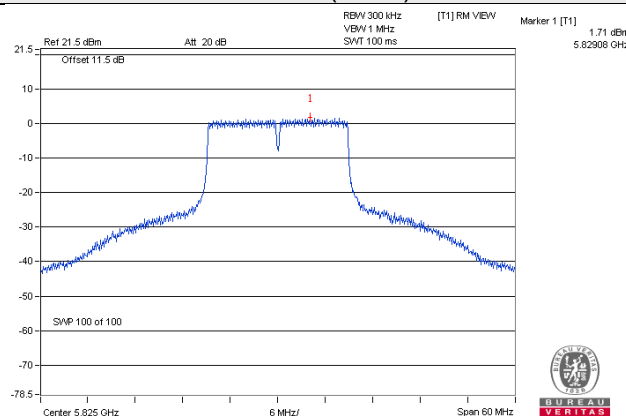
1. Method a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional Gain = $10.7 + 10\log(2) = 13.71\text{dBi} > 6\text{dBi}$, so the limit shall be reduced to $30 - (13.71 - 6) = 22.29\text{dBm}$.
3. Refer to section 3.3 for duty cycle spectrum plot.

Spectrum Plot of Worst Value

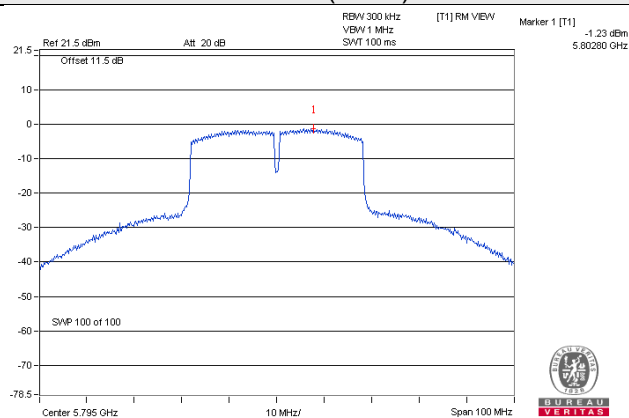
802.11a



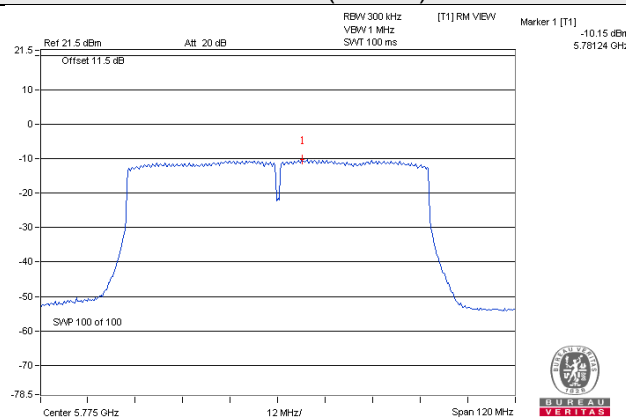
802.11n (HT20)



802.11n (HT40)



802.11ac (VHT80)



Mode D

For U-NII-1 Band (Outdoor Access Point)

802.11a

Chan.	Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)		Duty Factor (dB)	Total PSD with Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Pass / Fail
		Chain 0	Chain 1				
36	5180	2.50	2.70	0.19	5.80	13.29	Pass
40	5200	2.48	2.62	0.19	5.75	13.29	Pass
48	5240	2.27	2.70	0.19	5.69	13.29	Pass

Note:

1. Method a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional Gain = $6.7 + 10\log(2) = 9.71\text{dBi} > 6\text{dBi}$, so the limit shall be reduced to $17 - (9.71 - 6) = 13.29\text{dBm}$.
3. Refer to section 3.3 for duty cycle spectrum plot.

802.11n (HT20)

Chan.	Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)		Total PSD (dBm/MHz)	Max. Limit (dBm/MHz)	Pass / Fail
		Chain 0	Chain 1			
36	5180	2.22	2.55	5.40	13.29	Pass
40	5200	2.20	2.52	5.37	13.29	Pass
48	5240	1.98	2.55	5.28	13.29	Pass

Note:

1. Method a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional Gain = $6.7 + 10\log(2) = 9.71\text{dBi} > 6\text{dBi}$, so the limit shall be reduced to $17 - (9.71 - 6) = 13.29\text{dBm}$.

802.11n (HT40)

Chan.	Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)		Duty Factor (dB)	Total PSD with Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Pass / Fail
		Chain 0	Chain 1				
38	5190	-0.57	-0.13	0.16	2.83	13.29	Pass
46	5230	-0.53	-0.14	0.16	2.84	13.29	Pass

Note:

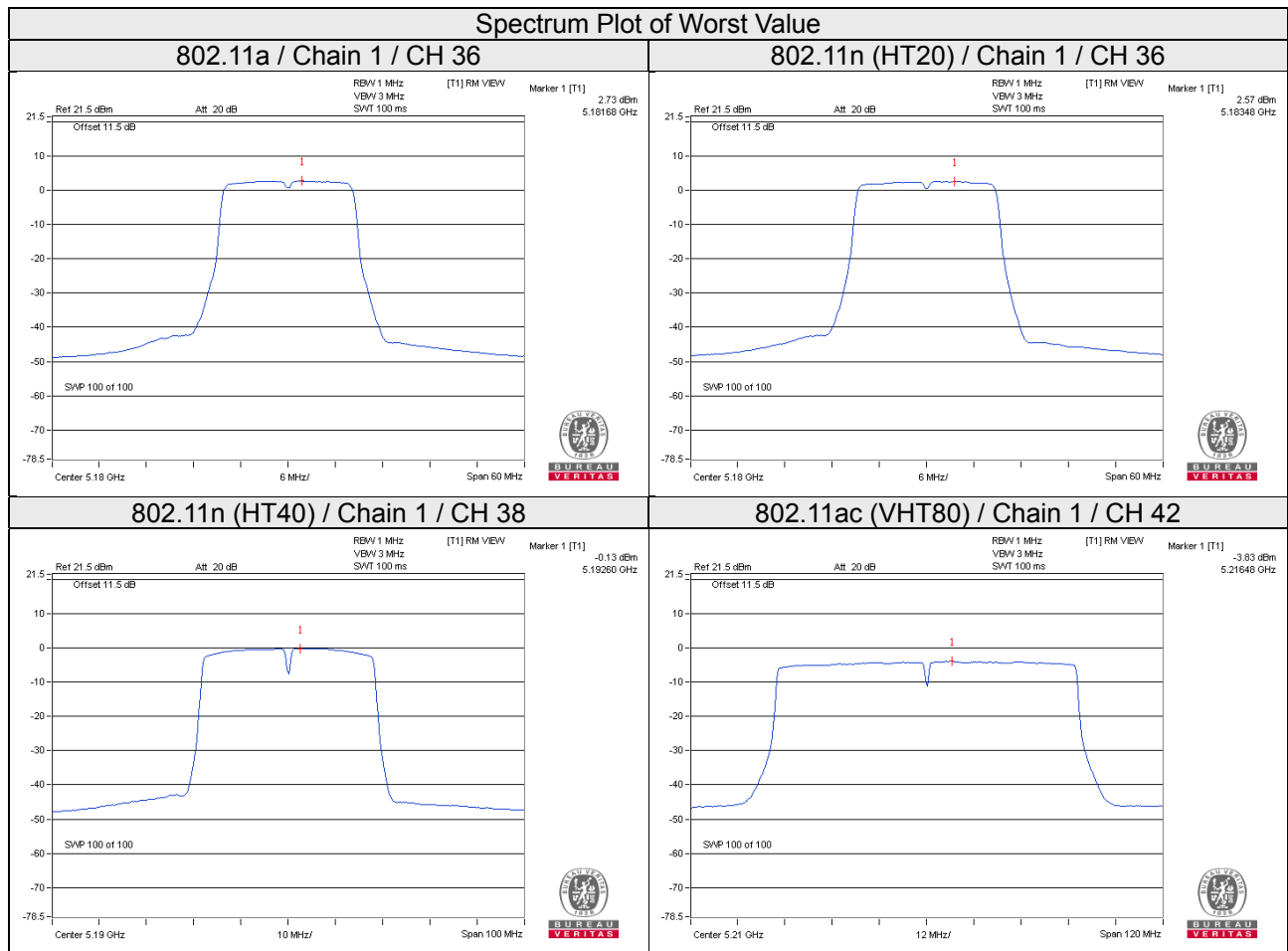
1. Method a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional Gain = $6.7 + 10\log(2) = 9.71\text{dBi} > 6\text{dBi}$, so the limit shall be reduced to $17 - (9.71 - 6) = 13.29\text{dBm}$.
3. Refer to section 3.3 for duty cycle spectrum plot.

802.11ac (VHT80)

Chan.	Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)		Duty Factor (dB)	Total PSD with Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Pass / Fail
		Chain 0	Chain 1				
42	5210	-4.19	-3.83	0.30	-0.69	13.29	Pass

Note:

- Method a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
- Directional Gain = $6.7 + 10\log(2) = 9.71\text{dBi} > 6\text{dBi}$, so the limit shall be reduced to $17 - (9.71 - 6) = 13.29\text{dBm}$.
- Refer to section 3.3 for duty cycle spectrum plot.



For U-NII-1 Band (Indoor Access Point)

802.11a

Chan.	Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)		Duty Factor (dB)	Total PSD with Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Pass / Fail
		Chain 0	Chain 1				
36	5180	6.14	6.27	0.19	9.41	13.29	Pass
40	5200	9.56	9.98	0.19	12.98	13.29	Pass
48	5240	9.55	10.37	0.19	13.18	13.29	Pass

Note:

1. Method a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional Gain = $6.7 + 10\log(2) = 9.71\text{dBi} > 6\text{dBi}$, so the limit shall be reduced to $17 - (9.71 - 6) = 13.29\text{dBm}$.
3. Refer to section 3.3 for duty cycle spectrum plot.

802.11n (HT20)

Chan.	Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)		Total PSD (dBm/MHz)	Max. Limit (dBm/MHz)	Pass / Fail
		Chain 0	Chain 1			
36	5180	5.78	6.23	9.02	13.29	Pass
40	5200	9.81	10.27	13.06	13.29	Pass
48	5240	9.60	10.23	12.94	13.29	Pass

Note:

1. Method a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional Gain = $6.7 + 10\log(2) = 9.71\text{dBi} > 6\text{dBi}$, so the limit shall be reduced to $17 - (9.71 - 6) = 13.29\text{dBm}$.

802.11n (HT40)

Chan.	Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)		Duty Factor (dB)	Total PSD with Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Pass / Fail
		Chain 0	Chain 1				
38	5190	-0.49	0.96	0.16	3.47	13.29	Pass
46	5230	5.52	6.78	0.16	9.37	13.29	Pass

Note:

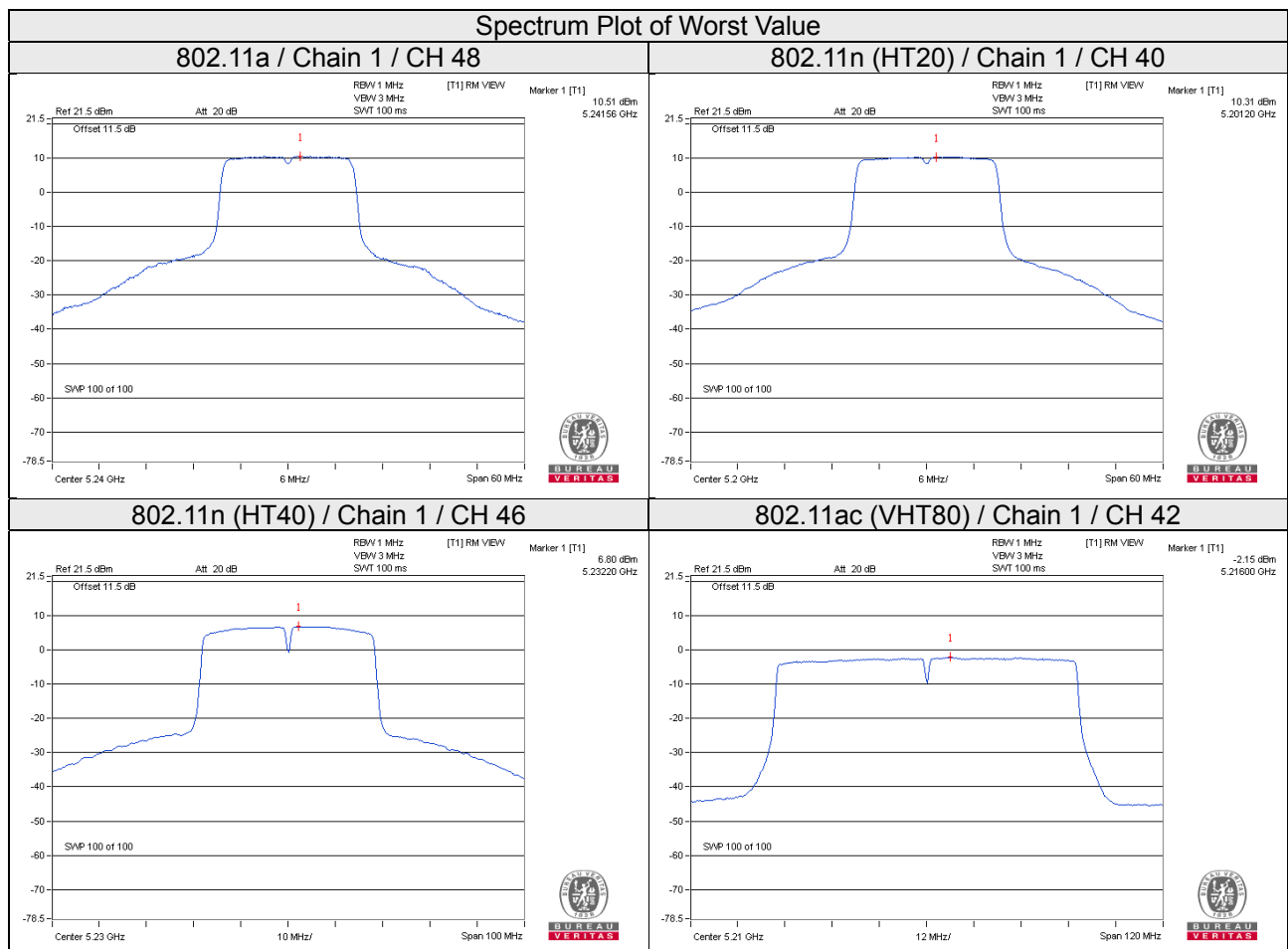
1. Method a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional Gain = $6.7 + 10\log(2) = 9.71\text{dBi} > 6\text{dBi}$, so the limit shall be reduced to $17 - (9.71 - 6) = 13.29\text{dBm}$.
3. Refer to section 3.3 for duty cycle spectrum plot.

802.11ac (VHT80)

Chan.	Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)		Duty Factor (dB)	Total PSD with Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Pass / Fail
		Chain 0	Chain 1				
42	5210	-3.56	-2.15	0.30	0.52	13.29	Pass

Note:

1. Method a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional Gain = $6.7 + 10\log(2) = 9.71\text{dBi} > 6\text{dBi}$, so the limit shall be reduced to $17 - (9.71 - 6) = 13.29\text{dBm}$.
3. Refer to section 3.3 for duty cycle spectrum plot.



For U-NII-3 Band

802.11a

TX chain	Chan.	Freq. (MHz)	PSD W/O Duty Factor		10 log (N=2) dB	Duty Factor (dB)	Total PSD With Duty Factor (dBm/500kHz)	Limit (dBm/500kHz)	Pass / Fail
			(dBm/300kHz)	(dBm/500kHz)					
0	149	5745	-1.92	0.30	3.01	0.19	3.50	26.29	Pass
	157	5785	-2.70	-0.48	3.01	0.19	2.72	26.29	Pass
	165	5825	-1.99	0.23	3.01	0.19	3.43	26.29	Pass
1	149	5745	-1.62	0.60	3.01	0.19	3.80	26.29	Pass
	157	5785	-1.87	0.35	3.01	0.19	3.55	26.29	Pass
	165	5825	-1.16	1.06	3.01	0.19	4.26	26.29	Pass

Note:

1. Method a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional Gain = $6.7 + 10\log(2) = 9.71\text{dBi} > 6\text{dBi}$, so the limit shall be reduced to $30 - (9.71 - 6) = 26.29\text{dBm}$.
3. Refer to section 3.3 for duty cycle spectrum plot.

802.11n (HT20)

TX chain	Chan.	Freq. (MHz)	PSD		10 log (N=2) dB	Total PSD (dBm/500kHz)	Limit (dBm/500kHz)	Pass / Fail
			(dBm/300kHz)	(dBm/500kHz)				
0	149	5745	-1.70	0.52	3.01	3.53	26.29	Pass
	157	5785	-2.51	-0.29	3.01	2.72	26.29	Pass
	165	5825	-1.71	0.51	3.01	3.52	26.29	Pass
1	149	5745	-1.39	0.83	3.01	3.84	26.29	Pass
	157	5785	-1.85	0.37	3.01	3.38	26.29	Pass
	165	5825	-0.82	1.40	3.01	4.41	26.29	Pass

Note:

1. Method a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional Gain = $6.7 + 10\log(2) = 9.71\text{dBi} > 6\text{dBi}$, so the limit shall be reduced to $30 - (9.71 - 6) = 26.29\text{dBm}$.

802.11n (HT40)

TX chain	Chan.	Freq. (MHz)	PSD W/O Duty Factor		10 log (N=2) dB	Duty Factor (dB)	Total PSD With Duty Factor (dBm/500kHz)	Limit (dBm/500kHz)	Pass / Fail
			(dBm/300kHz)	(dBm/500kHz)					
0	151	5755	-4.06	-1.84	3.01	0.16	1.33	26.29	Pass
	159	5795	-3.06	-0.84	3.01	0.16	2.33	26.29	Pass
1	151	5755	-3.93	-1.71	3.01	0.16	1.46	26.29	Pass
	159	5795	-2.28	-0.06	3.01	0.16	3.11	26.29	Pass

Note:

1. Method a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional Gain = $6.7 + 10\log(2) = 9.71\text{dBi} > 6\text{dBi}$, so the limit shall be reduced to $30 - (9.71 - 6) = 26.29\text{dBm}$.
3. Refer to section 3.3 for duty cycle spectrum plot.

802.11ac (VHT80)

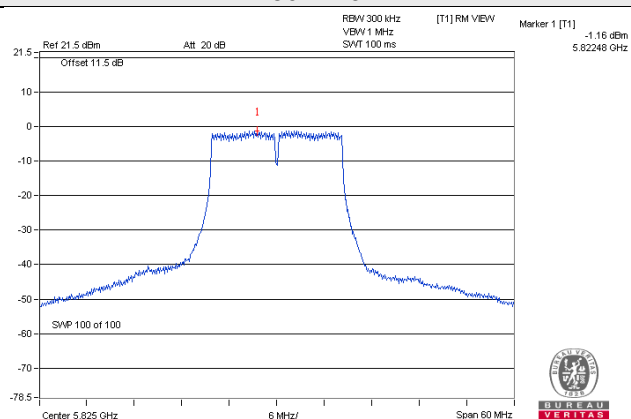
TX chain	Chan.	Freq. (MHz)	PSD W/O Duty Factor		10 log (N=2) dB	Duty Factor (dB)	Total PSD With Duty Factor (dBm/500kHz)	Limit (dBm/500kHz)	Pass / Fail
			(dBm/300kHz)	(dBm/500kHz)					
0	155	5775	-8.32	-6.10	3.01	0.30	-2.79	26.29	Pass
1	155	5775	-7.73	-5.51	3.01	0.30	-2.20	26.29	Pass

Note:

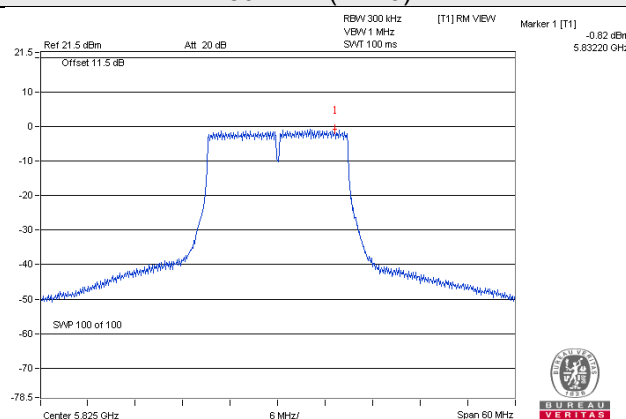
1. Method a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional Gain = $6.7 + 10\log(2) = 9.71\text{dBi} > 6\text{dBi}$, so the limit shall be reduced to $30 - (9.71 - 6) = 26.29\text{dBm}$.
3. Refer to section 3.3 for duty cycle spectrum plot.

Spectrum Plot of Worst Value

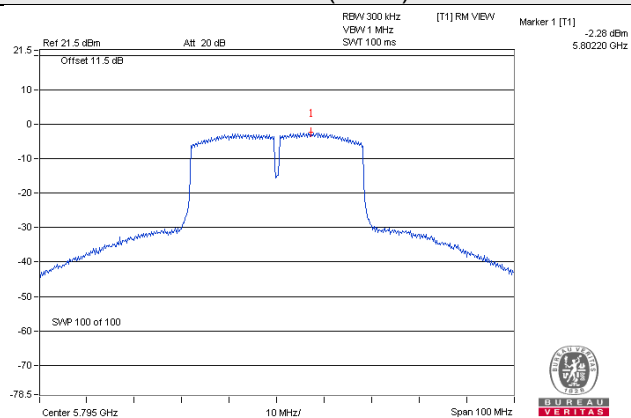
802.11a



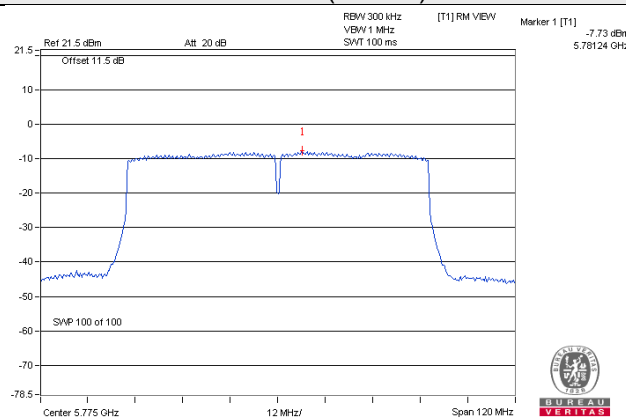
802.11n (HT20)



802.11n (HT40)



802.11ac (VHT80)



Mode E

For U-NII-1 Band (Outdoor Access Point)

802.11a

Chan.	Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)		Duty Factor (dB)	Total PSD with Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Pass / Fail
		Chain 0	Chain 1				
36	5180	-2.36	-2.15	0.19	0.95	9.29	Pass
40	5200	-2.43	-2.11	0.19	0.93	9.29	Pass
48	5240	-2.61	-2.14	0.19	0.83	9.29	Pass

Note:

1. Method a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional Gain = $10.7 + 10\log(2) = 13.71\text{dBi} > 6\text{dBi}$, so the limit shall be reduced to $17 - (13.71 - 6) = 9.29\text{dBm}$.
3. Refer to section 3.3 for duty cycle spectrum plot.

802.11n (HT20)

Chan.	Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)		Total PSD (dBm/MHz)	Max. Limit (dBm/MHz)	Pass / Fail
		Chain 0	Chain 1			
36	5180	-2.55	-2.26	0.61	9.29	Pass
40	5200	-2.64	-2.17	0.61	9.29	Pass
48	5240	-2.95	-2.22	0.44	9.29	Pass

Note:

1. Method a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional Gain = $10.7 + 10\log(2) = 13.71\text{dBi} > 6\text{dBi}$, so the limit shall be reduced to $17 - (13.71 - 6) = 9.29\text{dBm}$.

802.11n (HT40)

Chan.	Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)		Duty Factor (dB)	Total PSD with Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Pass / Fail
		Chain 0	Chain 1				
38	5190	-5.23	-4.98	0.16	-1.93	9.29	Pass
46	5230	-5.24	-4.95	0.16	-1.92	9.29	Pass

Note:

1. Method a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional Gain = $10.7 + 10\log(2) = 13.71\text{dBi} > 6\text{dBi}$, so the limit shall be reduced to $17 - (13.71 - 6) = 9.29\text{dBm}$.
3. Refer to section 3.3 for duty cycle spectrum plot.

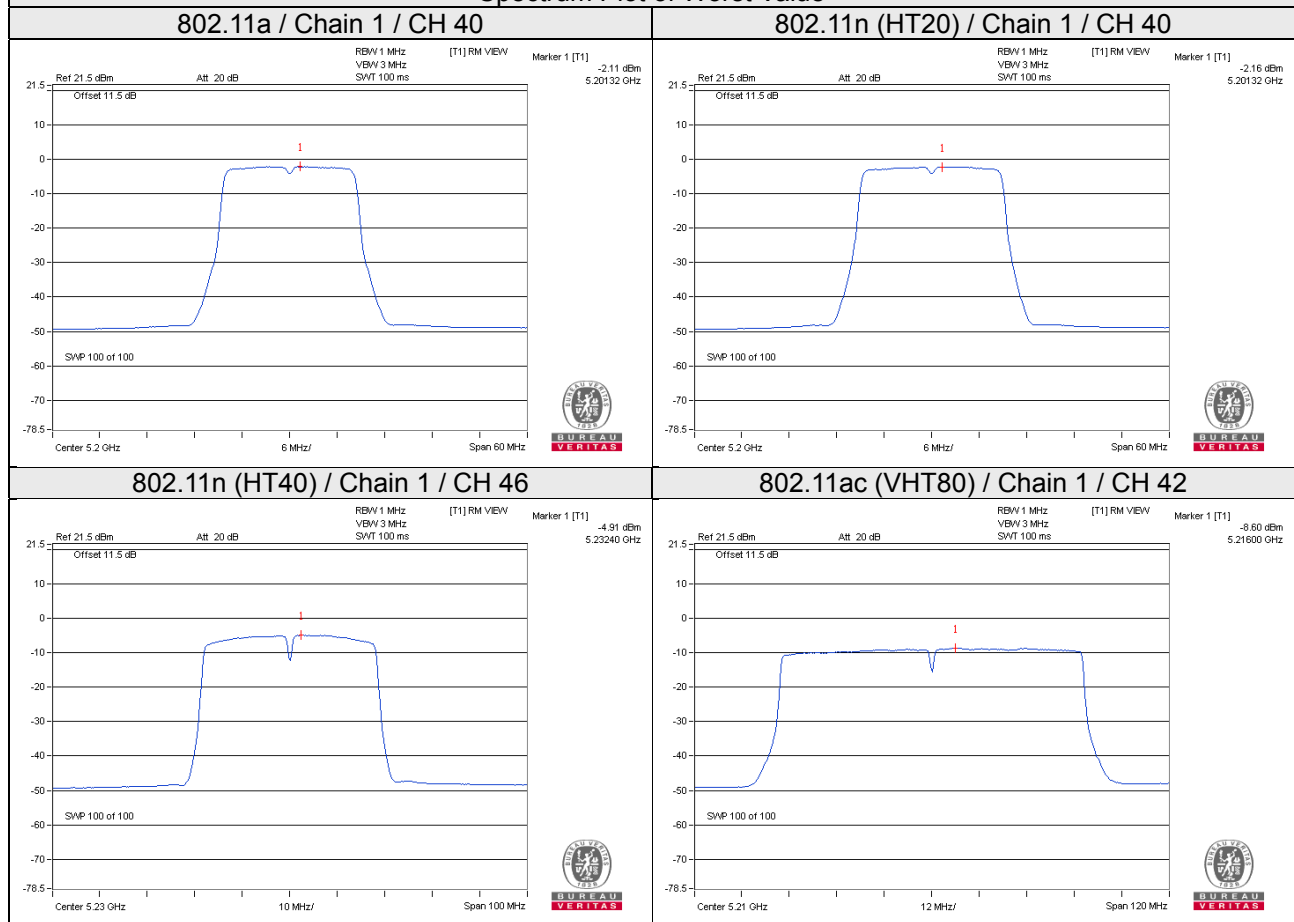
802.11ac (VHT80)

Chan.	Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)		Duty Factor (dB)	Total PSD with Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Pass / Fail
		Chain 0	Chain 1				
42	5210	-9.01	-8.60	0.30	-5.49	9.29	Pass

Note:

- Method a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
- Directional Gain = $10.7 + 10\log(2) = 13.71\text{dBi} > 6\text{dBi}$, so the limit shall be reduced to $17 - (13.71 - 6) = 9.29\text{dBm}$.
- Refer to section 3.3 for duty cycle spectrum plot.

Spectrum Plot of Worst Value



For U-NII-1 Band (Indoor Access Point)

802.11a

Chan.	Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)		Duty Factor (dB)	Total PSD with Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Pass / Fail
		Chain 0	Chain 1				
36	5180	5.51	5.62	0.19	8.77	9.29	Pass
40	5200	5.67	5.80	0.19	8.94	9.29	Pass
48	5240	5.41	5.89	0.19	8.86	9.29	Pass

Note:

1. Method a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional Gain = $10.7 + 10\log(2) = 13.71\text{dBi} > 6\text{dBi}$, so the limit shall be reduced to $17 - (13.71 - 6) = 9.29\text{dBm}$.
3. Refer to section 3.3 for duty cycle spectrum plot.

802.11n (HT20)

Chan.	Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)		Total PSD (dBm/MHz)	Max. Limit (dBm/MHz)	Pass / Fail
		Chain 0	Chain 1			
36	5180	5.34	5.65	8.51	9.29	Pass
40	5200	5.73	6.18	8.97	9.29	Pass
48	5240	5.50	6.28	8.92	9.29	Pass

Note:

1. Method a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional Gain = $10.7 + 10\log(2) = 13.71\text{dBi} > 6\text{dBi}$, so the limit shall be reduced to $17 - (13.71 - 6) = 9.29\text{dBm}$.

802.11n (HT40)

Chan.	Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)		Duty Factor (dB)	Total PSD with Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Pass / Fail
		Chain 0	Chain 1				
38	5190	0.21	0.29	0.16	3.42	9.29	Pass
46	5230	5.57	5.67	0.16	8.79	9.29	Pass

Note:

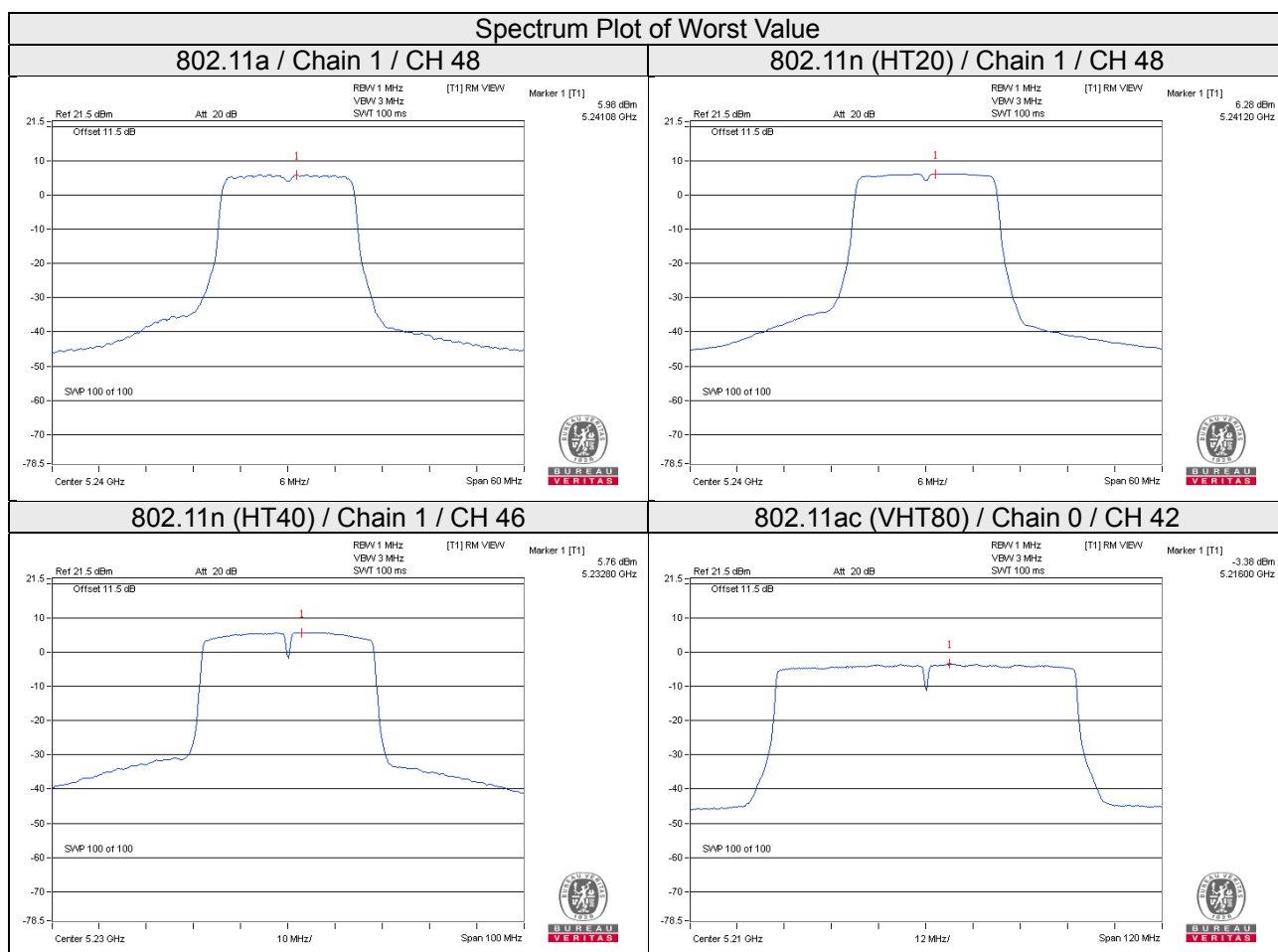
1. Method a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional Gain = $10.7 + 10\log(2) = 13.71\text{dBi} > 6\text{dBi}$, so the limit shall be reduced to $17 - (13.71 - 6) = 9.29\text{dBm}$.
3. Refer to section 3.3 for duty cycle spectrum plot.

802.11ac (VHT80)

Chan.	Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)		Duty Factor (dB)	Total PSD with Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Pass / Fail
		Chain 0	Chain 1				
42	5210	-3.38	-3.46	0.30	-0.10	9.29	Pass

Note:

1. Method a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional Gain = $10.7 + 10\log(2) = 13.71\text{dBi} > 6\text{dBi}$, so the limit shall be reduced to $17 - (13.71 - 6) = 9.29\text{dBm}$.
3. Refer to section 3.3 for duty cycle spectrum plot.



For U-NII-3 Band

802.11a

TX chain	Chan.	Freq. (MHz)	PSD W/O Duty Factor		10 log (N=2) dB	Duty Factor (dB)	Total PSD With Duty Factor (dBm/500kHz)	Limit (dBm/500kHz)	Pass / Fail
			(dBm/300kHz)	(dBm/500kHz)					
0	149	5745	0.42	2.64	3.01	0.19	5.84	22.29	Pass
	157	5785	0.13	2.35	3.01	0.19	5.55	22.29	Pass
	165	5825	0.13	2.35	3.01	0.19	5.55	22.29	Pass
1	149	5745	0.40	2.62	3.01	0.19	5.82	22.29	Pass
	157	5785	-0.01	2.21	3.01	0.19	5.41	22.29	Pass
	165	5825	0.07	2.29	3.01	0.19	5.49	22.29	Pass

Note:

1. Method a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional Gain = $10.7 + 10\log(2) = 13.71\text{dBi} > 6\text{dBi}$, so the limit shall be reduced to $30 - (13.71 - 6) = 22.29\text{dBm}$.
3. Refer to section 3.3 for duty cycle spectrum plot.

802.11n (HT20)

TX chain	Chan.	Freq. (MHz)	PSD		10 log (N=2) dB	Total PSD (dBm/500kHz)	Limit (dBm/500kHz)	Pass / Fail
			(dBm/300kHz)	(dBm/500kHz)				
0	149	5745	0.61	2.83	3.01	5.84	22.29	Pass
	157	5785	0.52	2.74	3.01	5.75	22.29	Pass
	165	5825	0.55	2.77	3.01	5.78	22.29	Pass
1	149	5745	0.01	2.23	3.01	5.24	22.29	Pass
	157	5785	0.19	2.41	3.01	5.42	22.29	Pass
	165	5825	0.58	2.80	3.01	5.81	22.29	Pass

Note:

1. Method a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional Gain = $10.7 + 10\log(2) = 13.71\text{dBi} > 6\text{dBi}$, so the limit shall be reduced to $30 - (13.71 - 6) = 22.29\text{dBm}$.

802.11n (HT40)

TX chain	Chan.	Freq. (MHz)	PSD W/O Duty Factor		10 log (N=2) dB	Duty Factor (dB)	Total PSD With Duty Factor (dBm/500kHz)	Limit (dBm/500kHz)	Pass / Fail
			(dBm/300kHz)	(dBm/500kHz)					
0	151	5755	-2.27	-0.05	3.01	0.16	3.12	22.29	Pass
	159	5795	-1.74	0.48	3.01	0.16	3.65	22.29	Pass
1	151	5755	-2.03	0.19	3.01	0.16	3.36	22.29	Pass
	159	5795	-1.23	0.99	3.01	0.16	4.16	22.29	Pass

Note:

1. Method a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional Gain = $10.7 + 10\log(2) = 13.71\text{dBi} > 6\text{dBi}$, so the limit shall be reduced to $30 - (13.71 - 6) = 22.29\text{dBm}$.
3. Refer to section 3.3 for duty cycle spectrum plot.

802.11ac (VHT80)

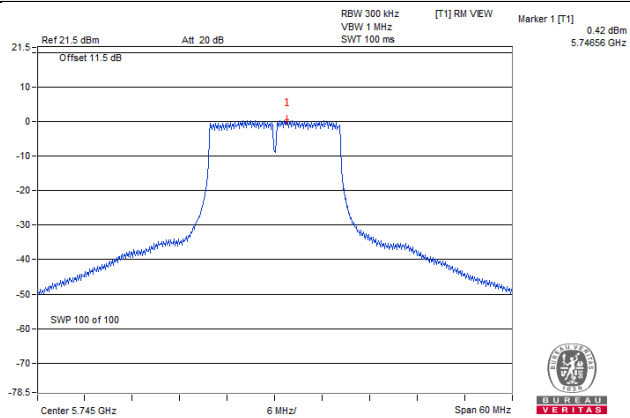
TX chain	Chan.	Freq. (MHz)	PSD W/O Duty Factor		10 log (N=2) dB	Duty Factor (dB)	Total PSD With Duty Factor (dBm/500kHz)	Limit (dBm/500kHz)	Pass / Fail
			(dBm/300kHz)	(dBm/500kHz)					
0	155	5775	-8.16	-5.94	3.01	0.30	-2.63	22.29	Pass
1	155	5775	-8.77	-6.55	3.01	0.30	-3.24	22.29	Pass

Note:

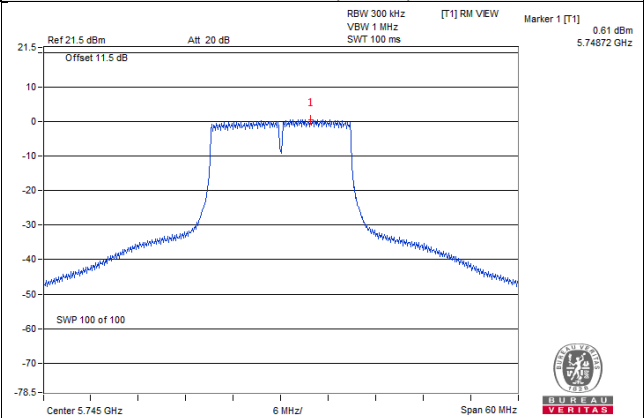
1. Method a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional Gain = $10.7 + 10\log(2) = 13.71\text{dBi} > 6\text{dBi}$, so the limit shall be reduced to $30 - (13.71 - 6) = 22.29\text{dBm}$.
3. Refer to section 3.3 for duty cycle spectrum plot.

Spectrum Plot of Worst Value

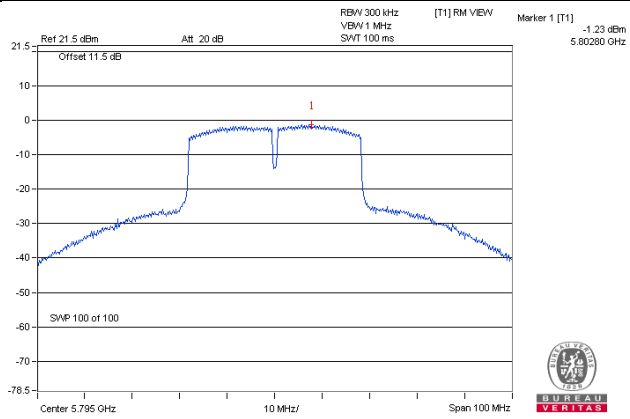
802.11a



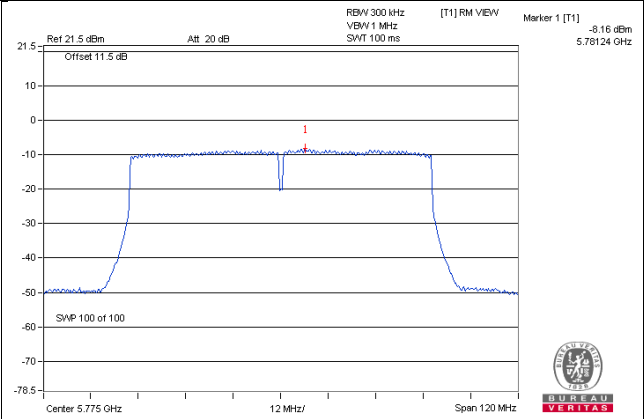
802.11n (HT20)



802.11n (HT40)



802.11ac (VHT80)

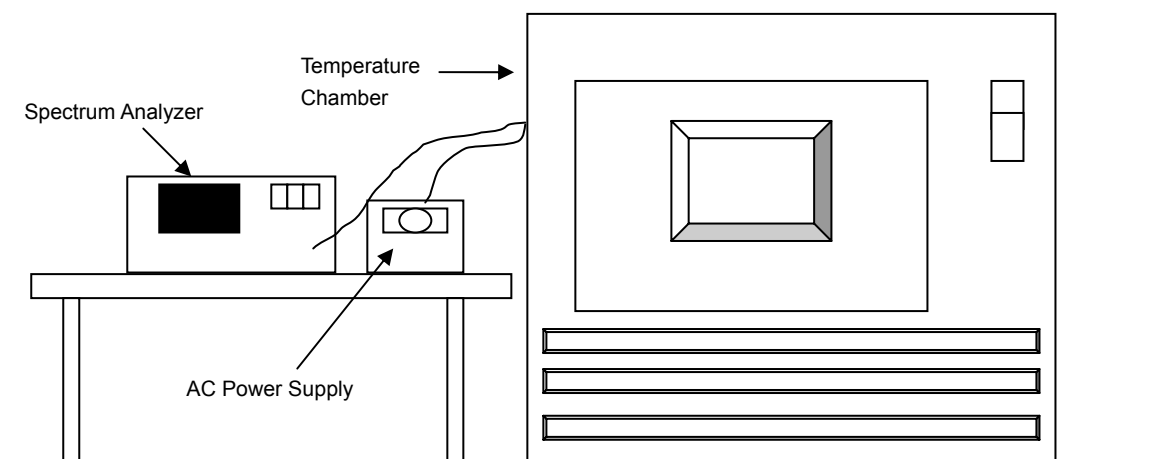


4.6 Frequency Stability

4.6.1 Limits of Frequency Stability Measurement

The frequency of the carrier signal shall be maintained within band of operation

4.6.2 Test Setup



4.6.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

4.6.4 Test Procedure

- The EUT was placed inside the environmental test chamber and powered by nominal AC voltage.
- Turn the EUT on and couple its output to a spectrum analyzer.
- Turn the EUT off and set the chamber to the highest temperature specified.
- Allow sufficient time (approximately 30 min) for the temperature of the chamber to stabilize, turn the EUT on and measure the operating frequency after 2, 5, and 10 minutes.
- Repeat step 2 and 3 with the temperature chamber set to the lowest temperature.
- The test chamber was allowed to stabilize at +20 degree C for a minimum of 30 minutes. The supply voltage was then adjusted on the EUT from 85% to 115% and the frequency record.

4.6.5 Deviation from Test Standard

No deviation.

4.6.6 EUT Operating Condition

Set the EUT transmit at un-modulation mode to test frequency stability.

4.6.7 Test Results

Frequency Stability Versus Temp.									
Operating Frequency: 5180MHz									
Temp. (°C)	Power Supply (Vac)	0 Minute		2 Minute		5 Minute		10 Minute	
		Measured Frequency (MHz)	Frequency Drift (%)	Measured Frequency (MHz)	Frequency Drift (%)	Measured Frequency (MHz)	Frequency Drift (%)	Measured Frequency (MHz)	Frequency Drift (%)
50	120	5180.002	0.00004	5180.0015	0.00003	5180.0008	0.00002	5180.0024	0.00005
40	120	5179.9773	-0.00044	5179.9777	-0.00043	5179.9769	-0.00045	5179.9783	-0.00042
30	120	5180.006	0.00012	5180.003	0.00006	5180.0018	0.00003	5180.0062	0.00012
20	120	5179.9961	-0.00008	5179.9982	-0.00003	5179.9981	-0.00004	5179.9974	-0.00005
10	120	5179.9773	-0.00044	5179.9743	-0.00050	5179.9738	-0.00051	5179.9765	-0.00045
0	120	5179.9916	-0.00016	5179.9903	-0.00019	5179.9913	-0.00017	5179.9914	-0.00017
-10	120	5179.9865	-0.00026	5179.9863	-0.00026	5179.9839	-0.00031	5179.9852	-0.00029
-20	120	5180.0029	0.00006	5180.0003	0.00001	5180.0022	0.00004	5180.0007	0.00001
-30	120	5179.983	-0.00033	5179.9817	-0.00035	5179.9862	-0.00027	5179.9849	-0.00029

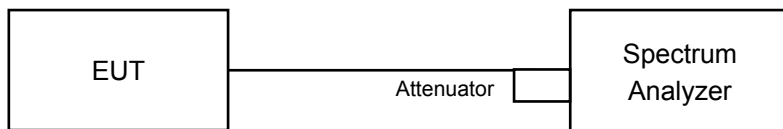
Frequency Stability Versus Voltage									
Operating Frequency: 5180MHz									
Temp. (°C)	Power Supply (Vac)	0 Minute		2 Minute		5 Minute		10 Minute	
		Measured Frequency (MHz)	Frequency Drift (%)	Measured Frequency (MHz)	Frequency Drift (%)	Measured Frequency (MHz)	Frequency Drift (%)	Measured Frequency (MHz)	Frequency Drift (%)
20	138	5179.9958	-0.00008	5179.9979	-0.00004	5179.9975	-0.00005	5179.9967	-0.00006
	120	5179.9961	-0.00008	5179.9982	-0.00003	5179.9981	-0.00004	5179.9974	-0.00005
	102	5179.9963	-0.00007	5179.998	-0.00004	5179.9972	-0.00005	5179.9979	-0.00004

4.7 6dB Bandwidth Measurement

4.7.1 Limits of 6dB Bandwidth Measurement

The minimum of 6dB Bandwidth Measurement is 0.5MHz.

4.7.2 Test Setup



4.7.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

4.7.4 Test Procedure

Measurement Procedure REF

- Set resolution bandwidth (RBW) = 100kHz
- Set the video bandwidth (VBW) $\geq 3 \times$ RBW, Detector = Peak.
- Trace mode = max hold.
- Sweep = auto couple.
- Measure the maximum width of the emission that is constrained by the frequencies associated with the two amplitude points (upper and lower) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission

4.7.5 Deviation from Test Standard

No deviation.

4.7.6 EUT Operating Condition

The software provided by client to enable the EUT under transmission condition continuously at lowest, middle and highest channel frequencies individually.

4.7.7 Test Results

Mode A

802.11a

Chan.	Freq. (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
149	5745	16.38	16.41	0.5	Pass
157	5785	16.39	16.41	0.5	Pass
165	5825	16.38	16.41	0.5	Pass

802.11n (HT20)

Chan.	Freq. (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
149	5745	17.63	17.64	0.5	Pass
157	5785	17.64	17.64	0.5	Pass
165	5825	17.63	17.63	0.5	Pass

802.11n (HT40)

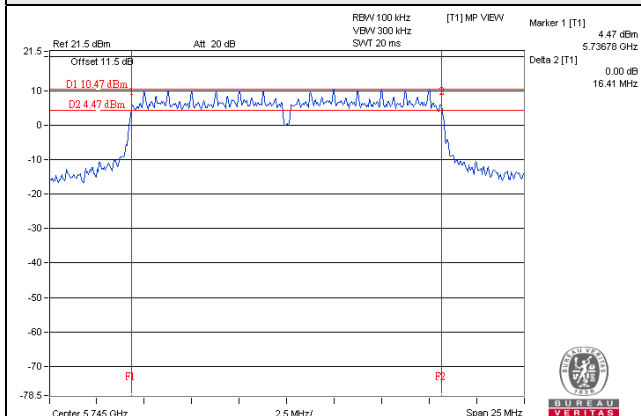
Chan.	Freq. (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
151	5755	35.32	35.40	0.5	Pass
159	5795	35.33	35.28	0.5	Pass

802.11ac (VHT80)

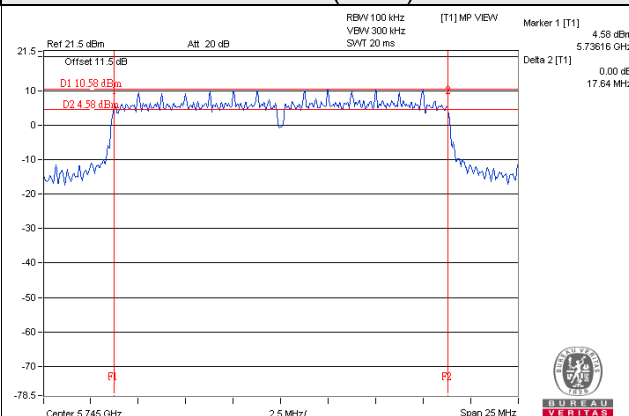
Chan.	Freq. (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
155	5775	76.42	75.56	0.5	Pass

Spectrum Plot of Worst Value

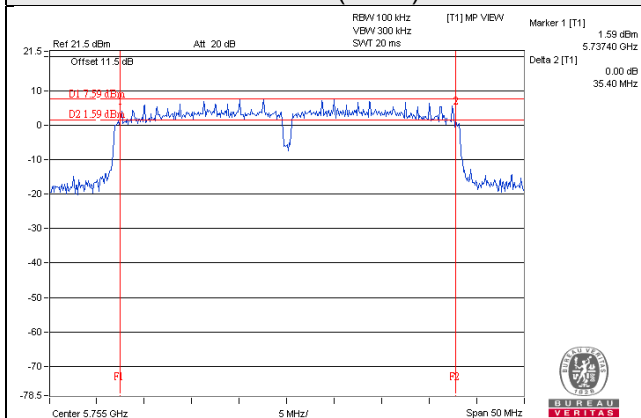
802.11a



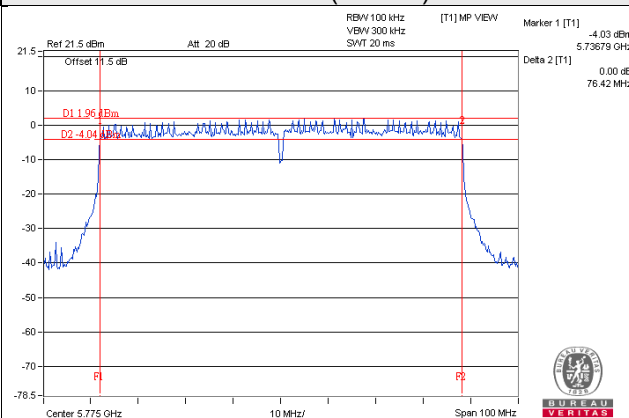
802.11n (HT20)



802.11n (HT40)



802.11ac (VHT80)



Mode B

802.11a

Chan.	Freq. (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
149	5745	16.42	16.46	0.5	Pass
157	5785	16.44	16.45	0.5	Pass
165	5825	16.41	16.44	0.5	Pass

802.11n (HT20)

Chan.	Freq. (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
149	5745	17.64	17.66	0.5	Pass
157	5785	17.66	17.68	0.5	Pass
165	5825	17.62	17.64	0.5	Pass

802.11n (HT40)

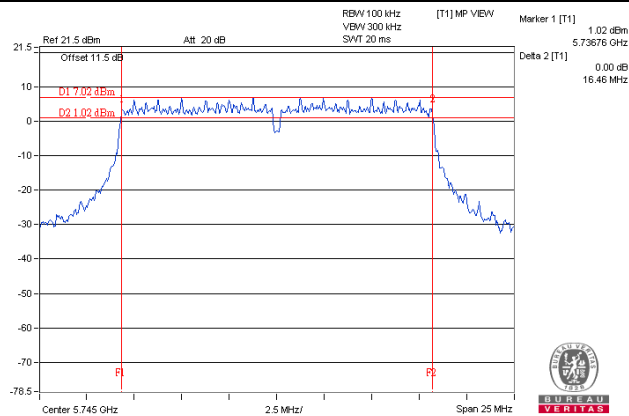
Chan.	Freq. (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
151	5755	35.40	35.31	0.5	Pass
159	5795	35.48	35.35	0.5	Pass

802.11ac (VHT80)

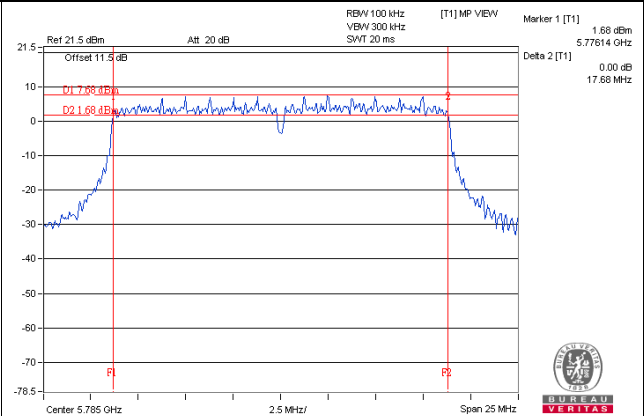
Chan.	Freq. (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
155	5775	76.32	76.11	0.5	Pass

Spectrum Plot of Worst Value

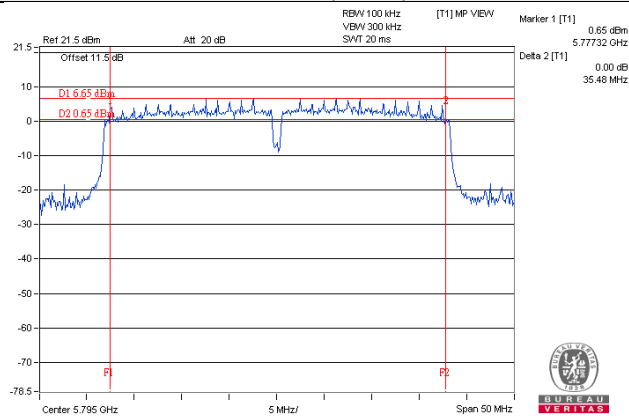
802.11a



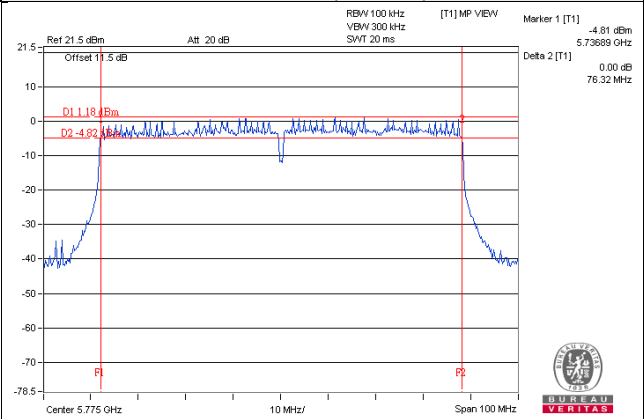
802.11n (HT20)



802.11n (HT40)



802.11ac (VHT80)



Mode C

802.11a

Chan.	Freq. (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
149	5745	16.38	16.41	0.5	Pass
157	5785	16.39	16.41	0.5	Pass
165	5825	16.40	16.41	0.5	Pass

802.11n (HT20)

Chan.	Freq. (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
149	5745	17.66	17.65	0.5	Pass
157	5785	17.65	17.64	0.5	Pass
165	5825	17.65	17.64	0.5	Pass

802.11n (HT40)

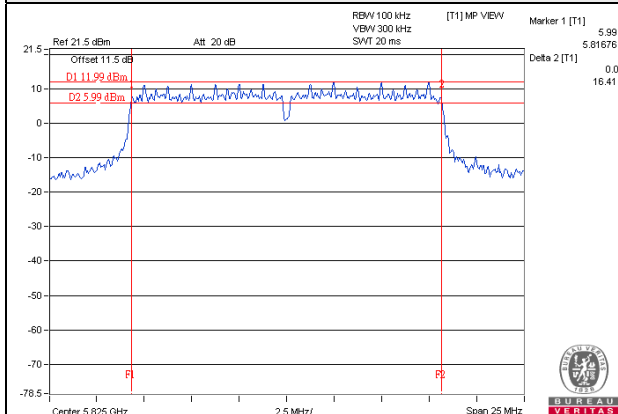
Chan.	Freq. (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
151	5755	35.24	35.31	0.5	Pass
159	5795	35.33	35.30	0.5	Pass

802.11ac (VHT80)

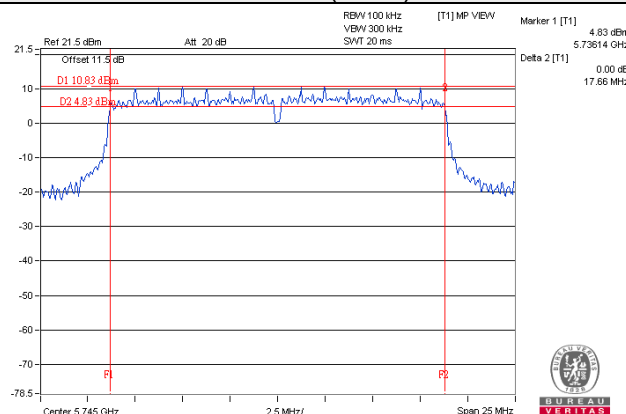
Chan.	Freq. (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
155	5775	76.46	76.41	0.5	Pass

Spectrum Plot of Worst Value

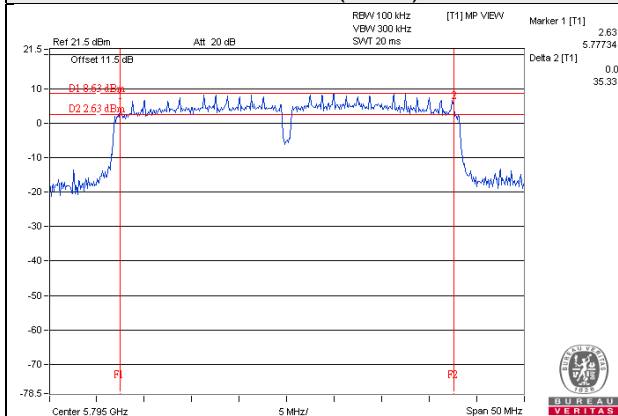
802.11a



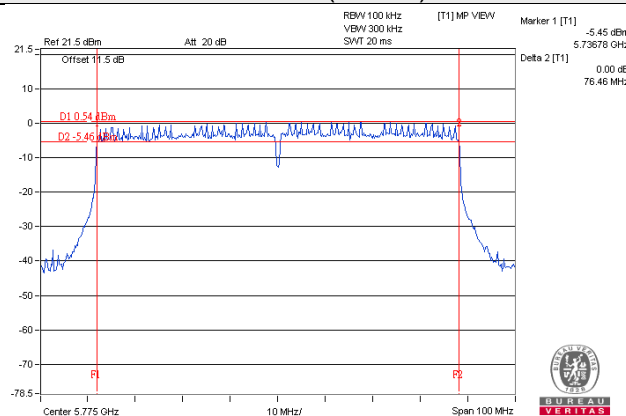
802.11n (HT20)



802.11n (HT40)



802.11ac (VHT80)



Mode D

802.11a

Chan.	Freq. (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
149	5745	16.41	16.43	0.5	Pass
157	5785	16.42	16.44	0.5	Pass
165	5825	16.42	16.44	0.5	Pass

802.11n (HT20)

Chan.	Freq. (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
149	5745	17.66	17.67	0.5	Pass
157	5785	17.66	17.66	0.5	Pass
165	5825	17.66	17.67	0.5	Pass

802.11n (HT40)

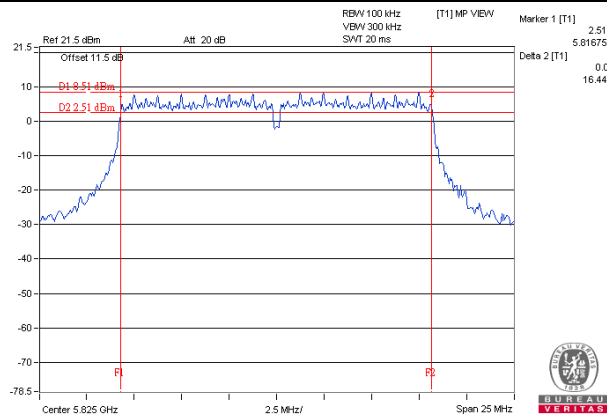
Chan.	Freq. (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
151	5755	35.47	35.34	0.5	Pass
159	5795	35.41	35.26	0.5	Pass

802.11ac (VHT80)

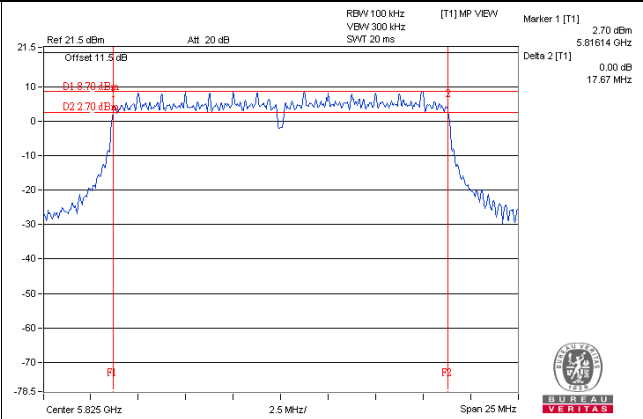
Chan.	Freq. (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
155	5775	76.40	75.63	0.5	Pass

Spectrum Plot of Worst Value

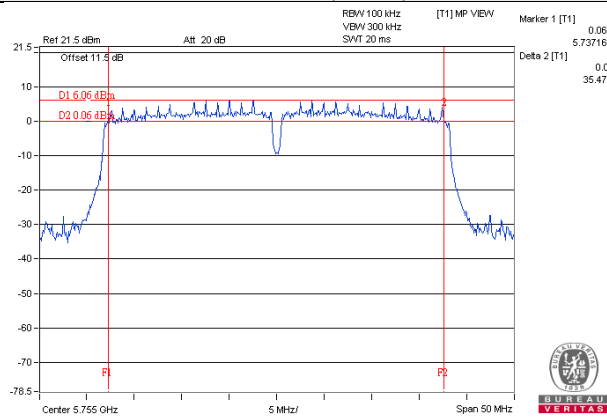
802.11a



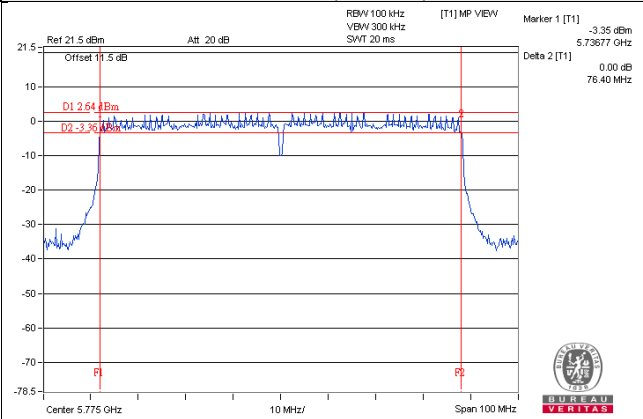
802.11n (HT20)



802.11n (HT40)



802.11ac (VHT80)



Mode E

802.11a

Chan.	Freq. (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
149	5745	16.39	16.40	0.5	Pass
157	5785	16.42	16.42	0.5	Pass
165	5825	16.43	16.42	0.5	Pass

802.11n (HT20)

Chan.	Freq. (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
149	5745	17.63	17.66	0.5	Pass
157	5785	17.67	17.67	0.5	Pass
165	5825	17.66	17.66	0.5	Pass

802.11n (HT40)

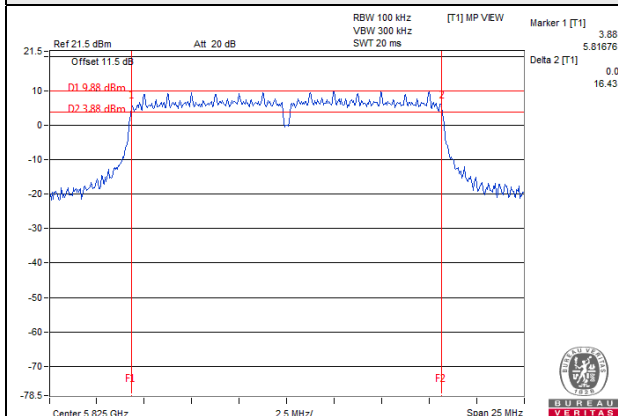
Chan.	Freq. (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
151	5755	35.24	35.31	0.5	Pass
159	5795	35.33	35.30	0.5	Pass

802.11ac (VHT80)

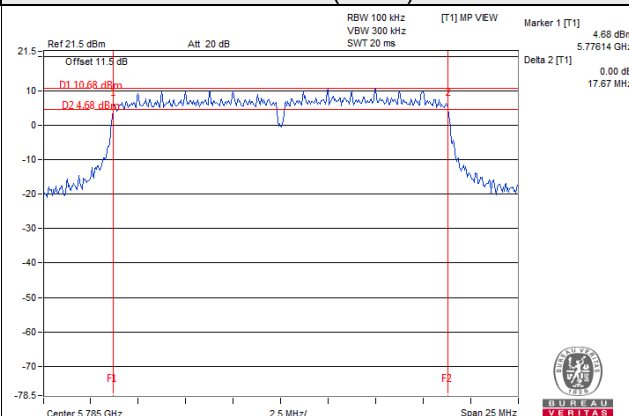
Chan.	Freq. (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
155	5775	76.39	76.09	0.5	Pass

Spectrum Plot of Worst Value

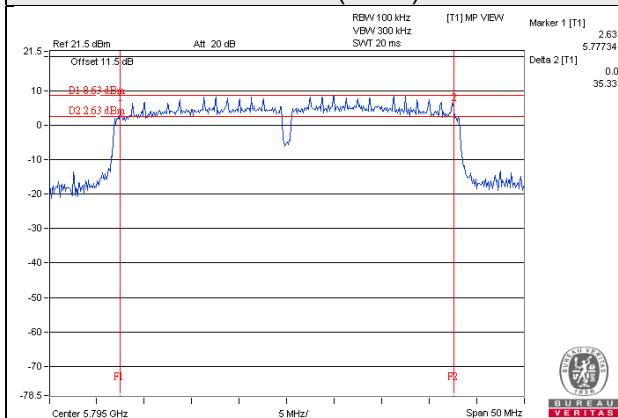
802.11a



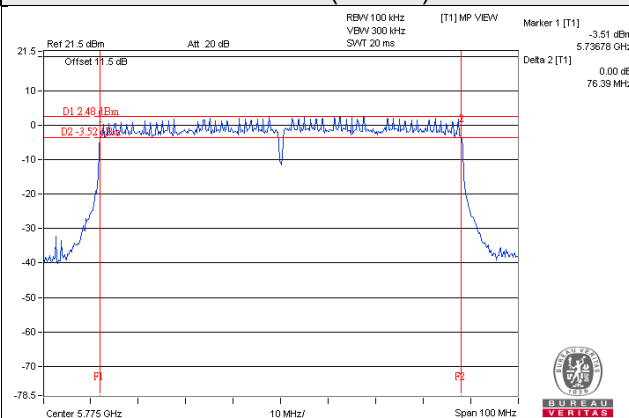
802.11n (HT20)



802.11n (HT40)



802.11ac (VHT80)



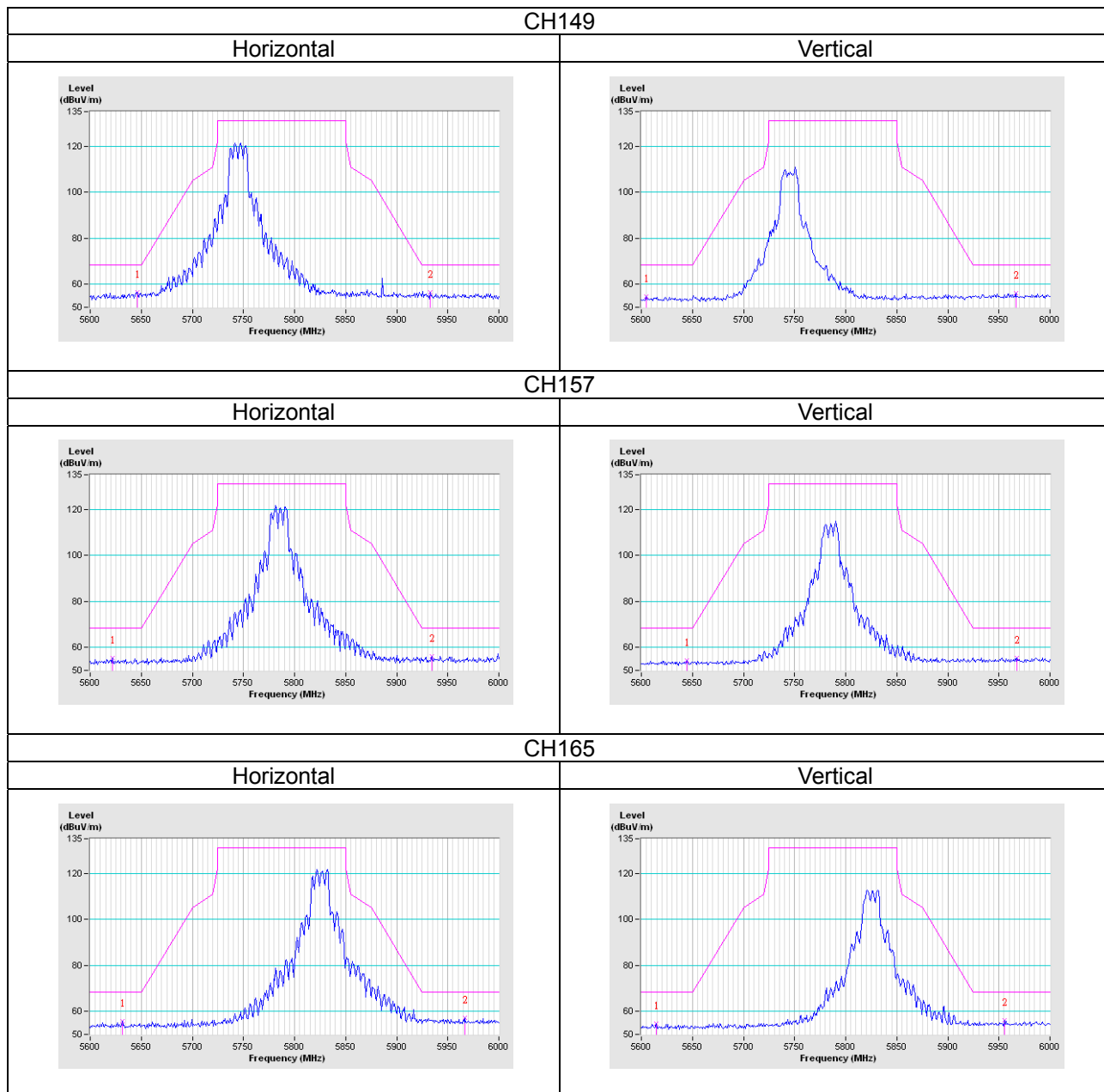
5 Pictures of Test Arrangements

Please refer to the attached file (Test Setup Photo).

Annex A- Radiated Out of Band Emission (OOBE) Measurement (For U-NII-3 Band)

Mode A

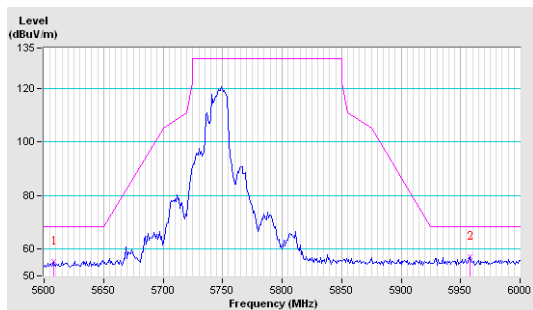
802.11a



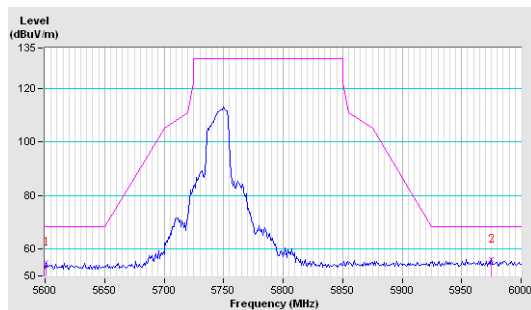
802.11n (HT20)

CH149

Horizontal

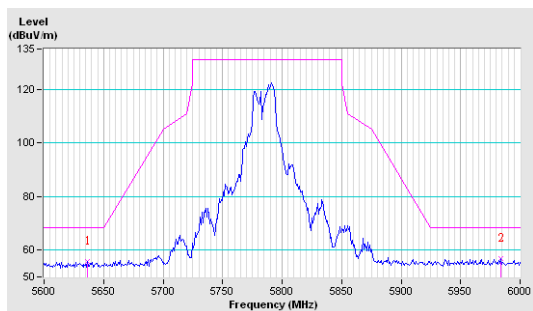


Vertical

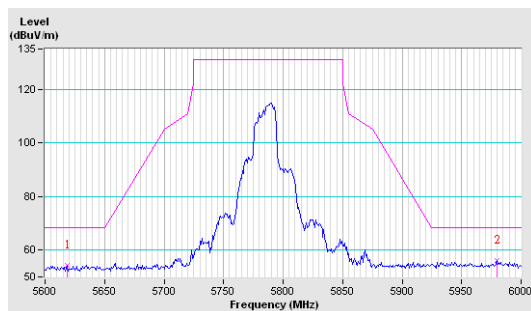


CH157

Horizontal

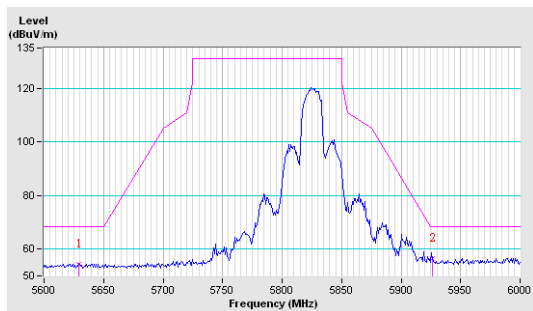


Vertical

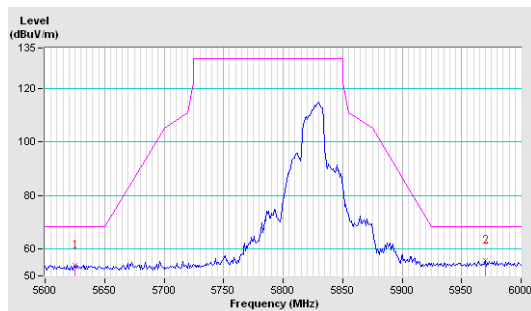


CH165

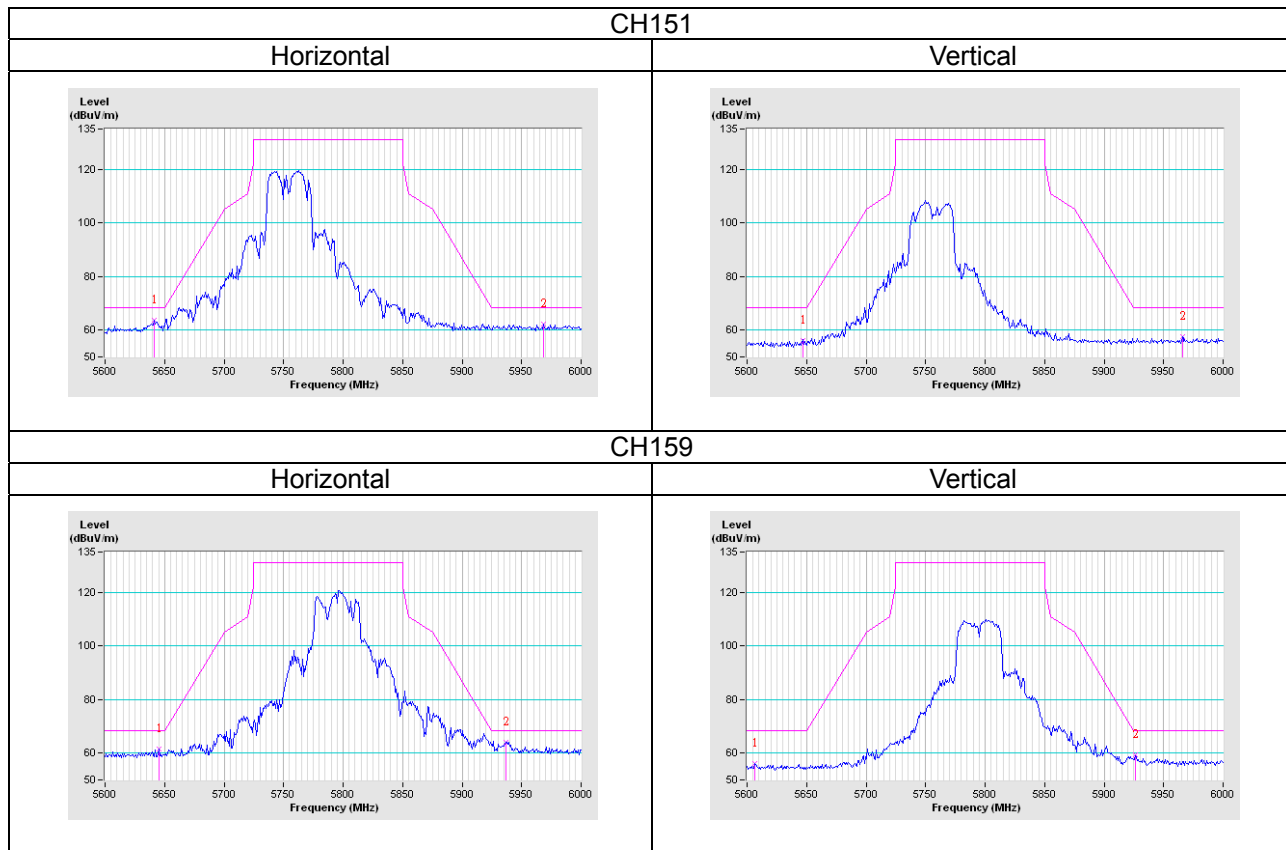
Horizontal



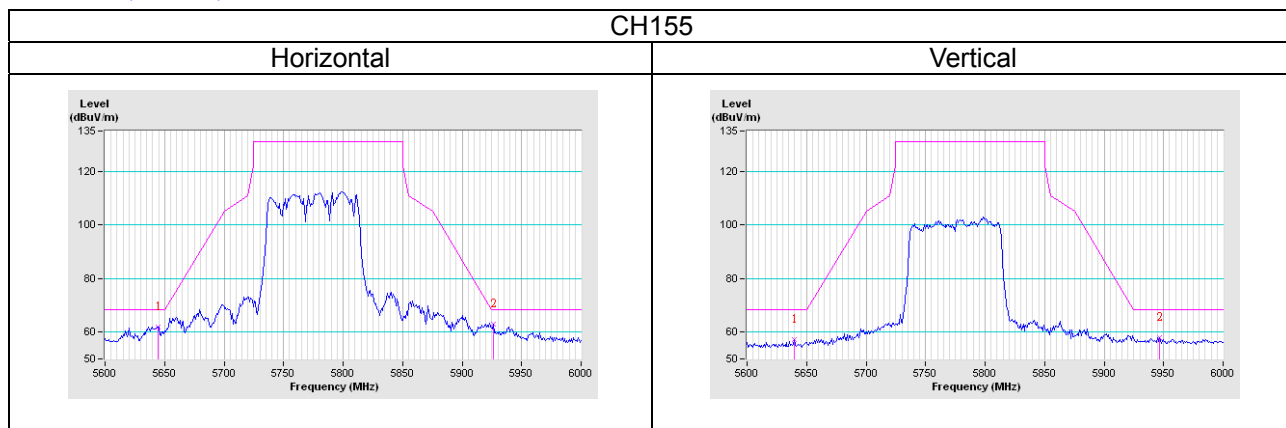
Vertical



802.11n (HT40)



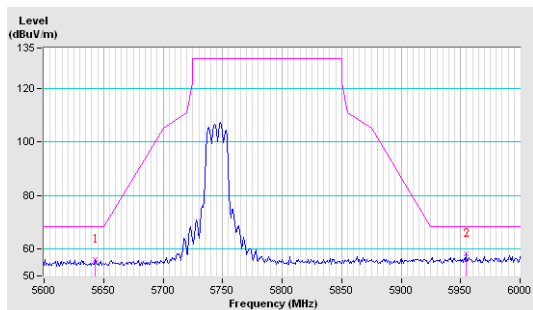
802.11ac (VHT80)



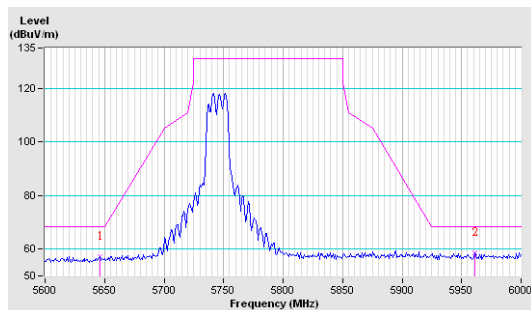
Mode B
802.11a

CH149

Horizontal

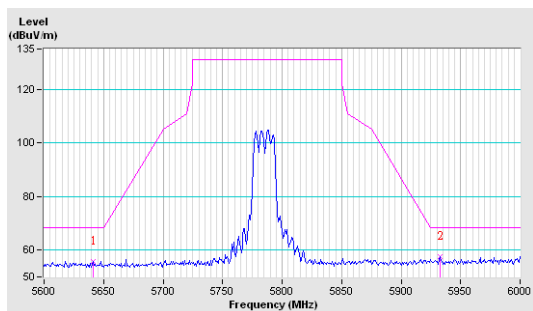


Vertical

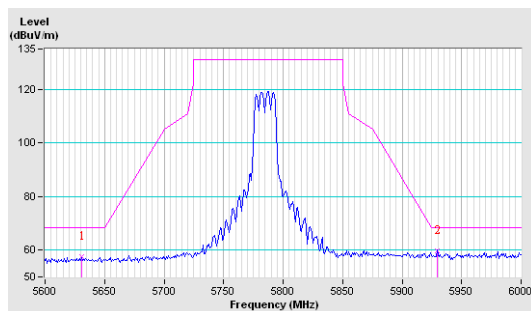


CH157

Horizontal

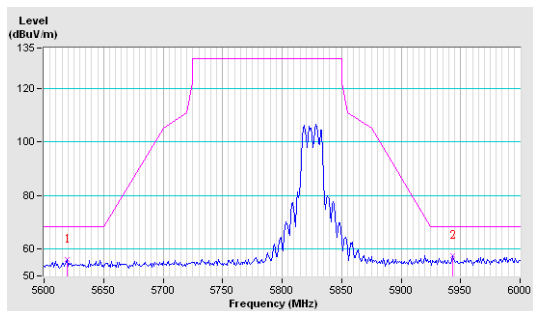


Vertical

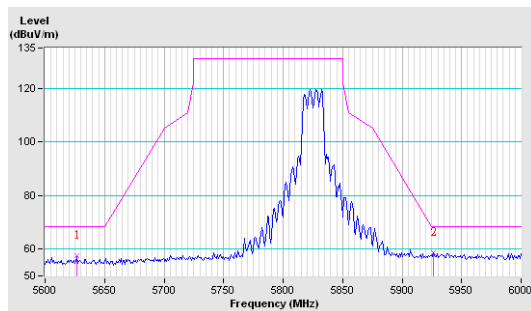


CH165

Horizontal



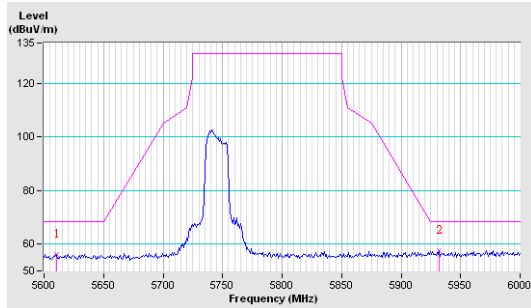
Vertical



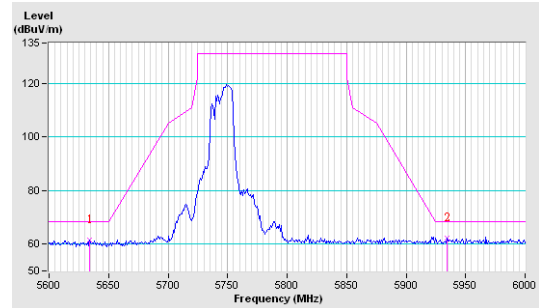
802.11n (HT20)

CH149

Horizontal

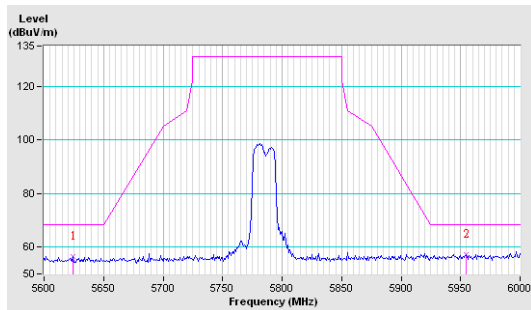


Vertical

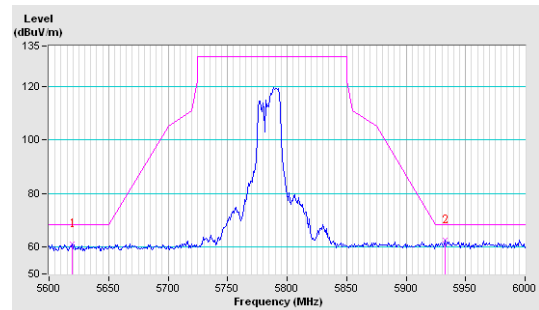


CH157

Horizontal

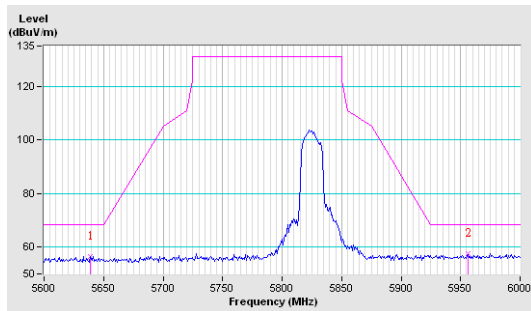


Vertical

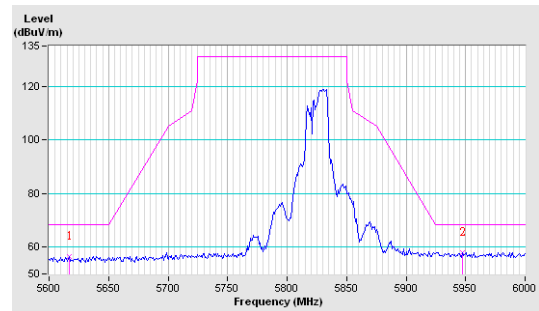


CH165

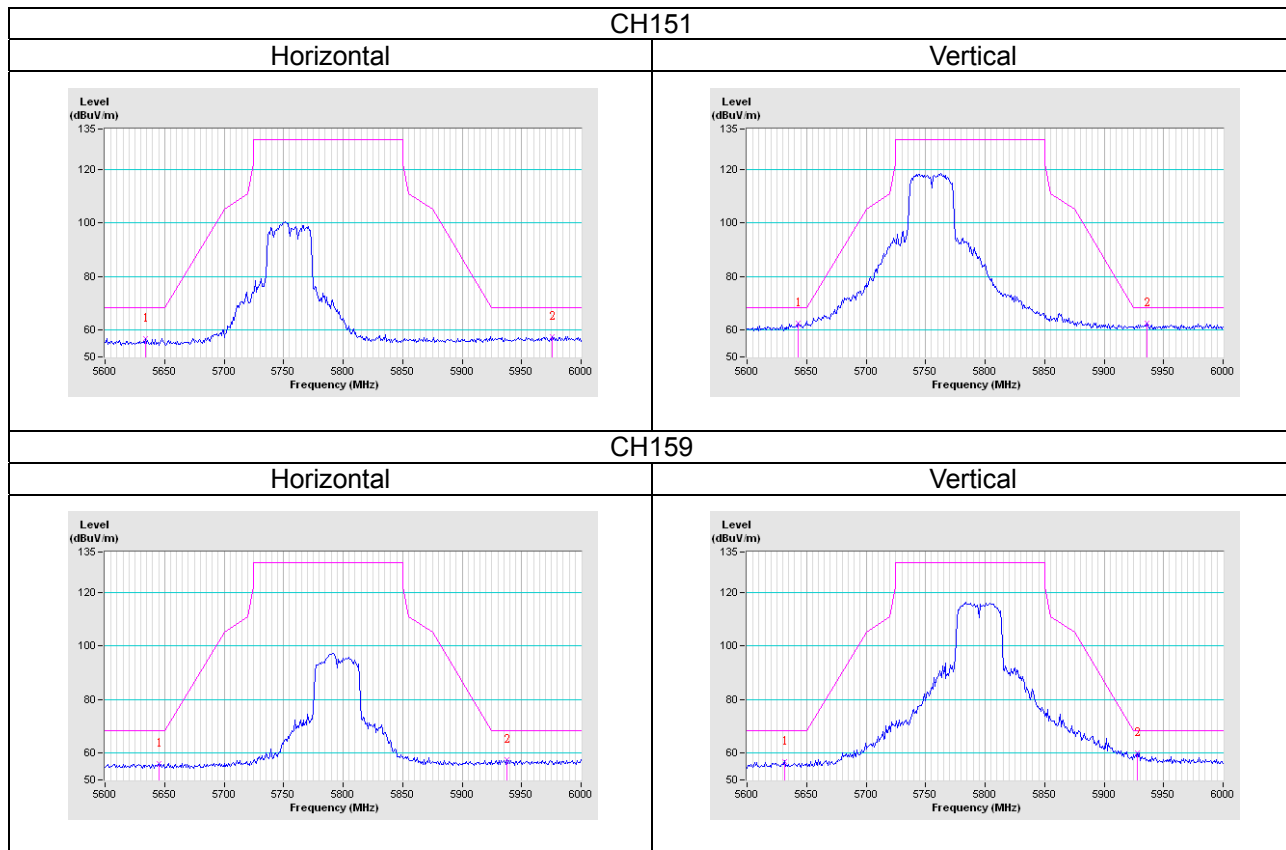
Horizontal



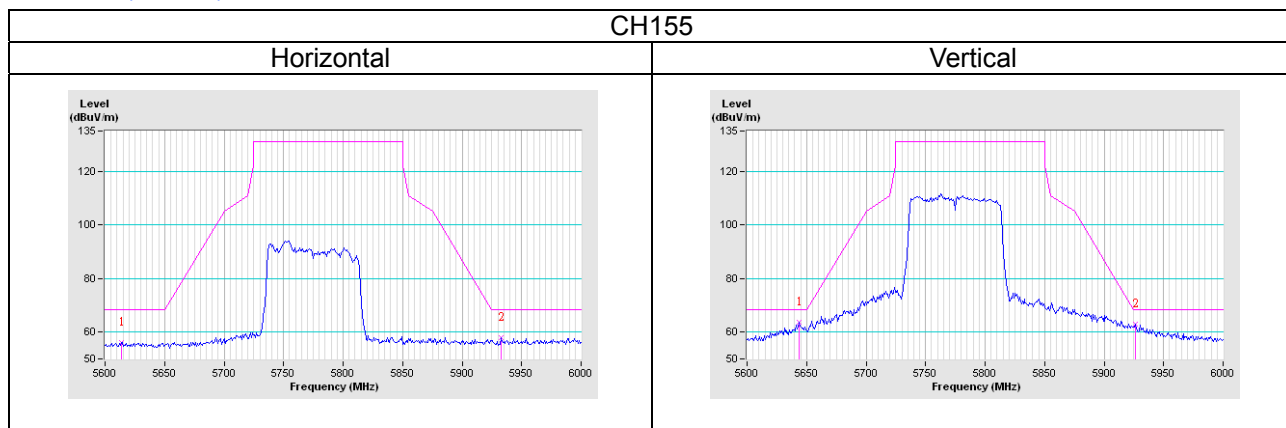
Vertical



802.11n (HT40)



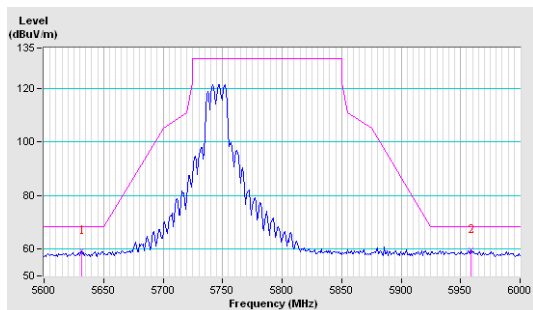
802.11ac (VHT80)



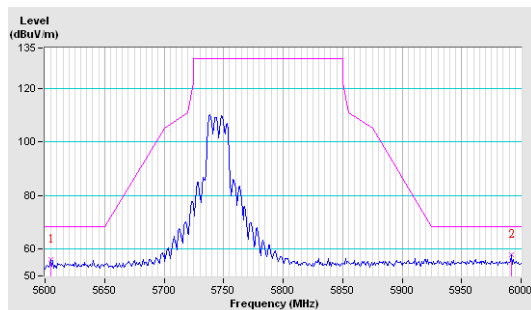
Mode C
802.11a

CH149

Horizontal

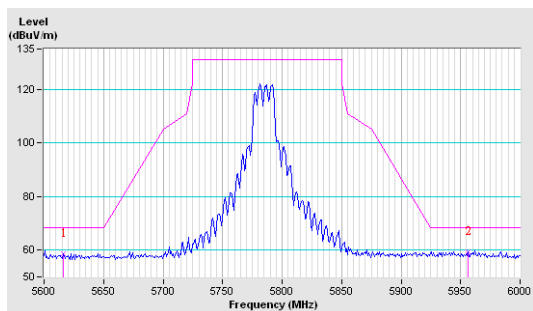


Vertical

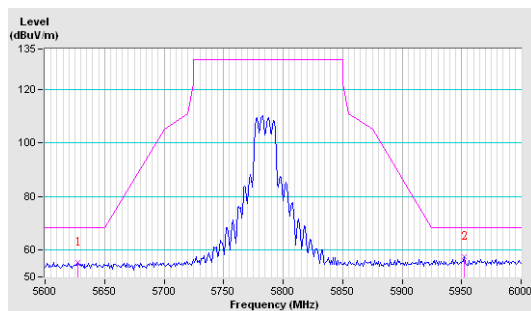


CH157

Horizontal

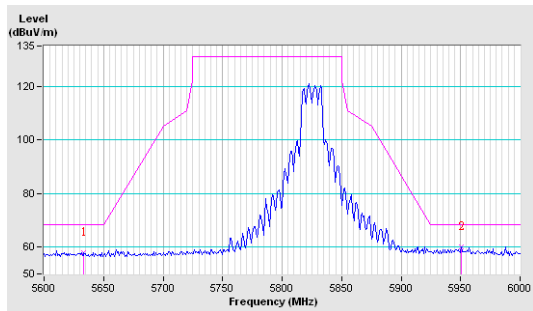


Vertical

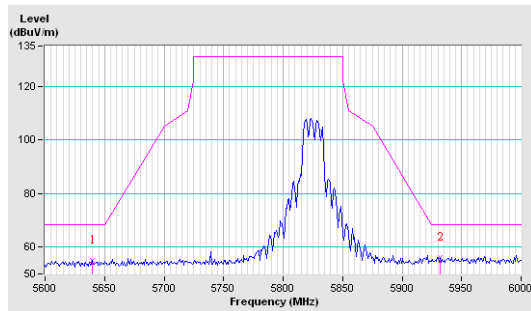


CH165

Horizontal



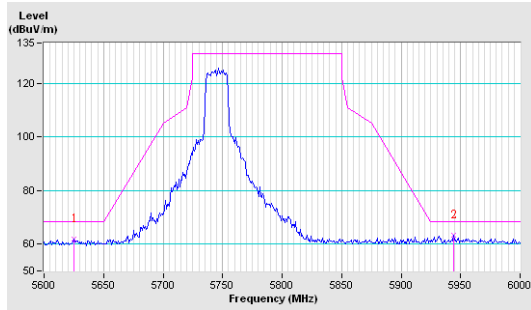
Vertical



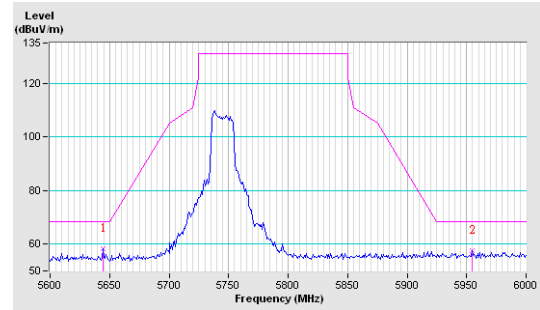
802.11n (HT20)

CH149

Horizontal

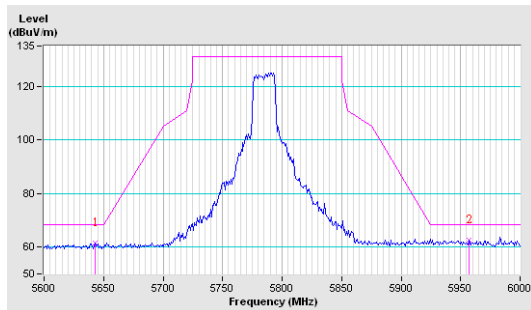


Vertical

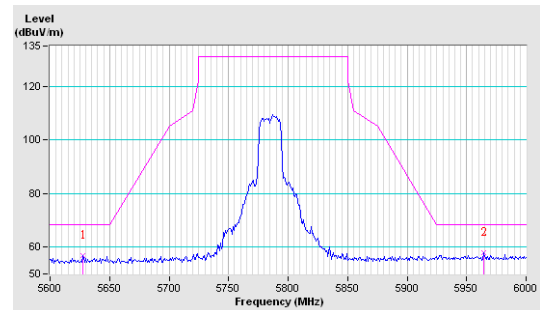


CH157

Horizontal

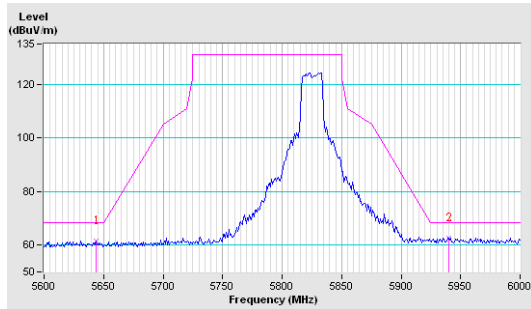


Vertical

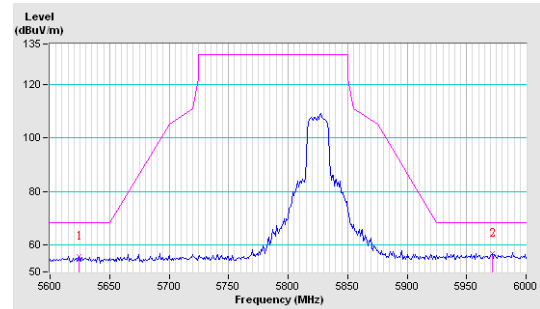


CH165

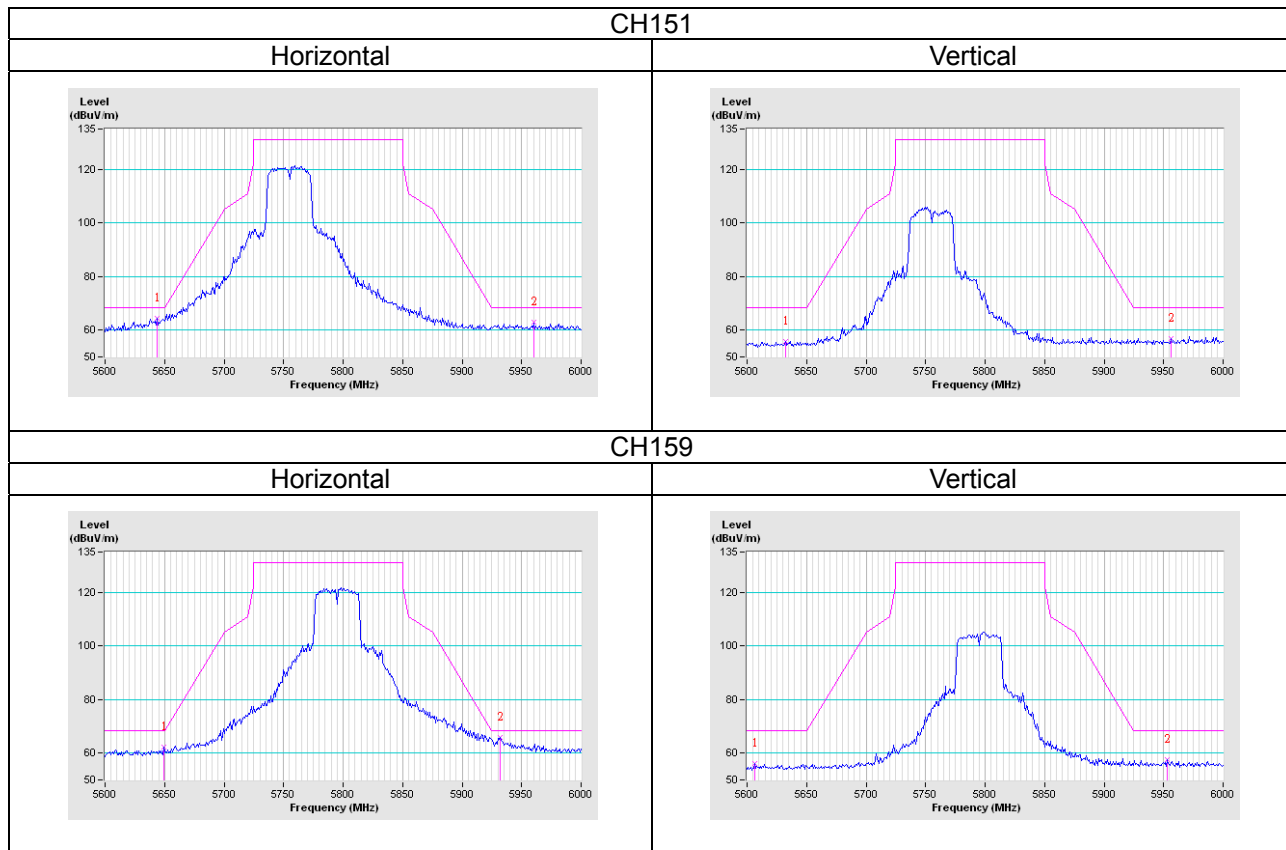
Horizontal



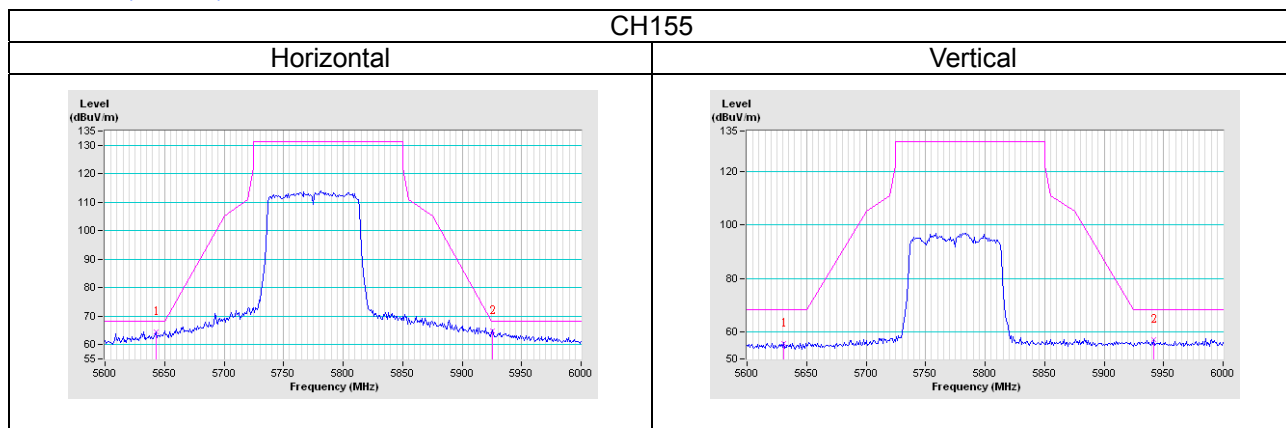
Vertical



802.11n (HT40)



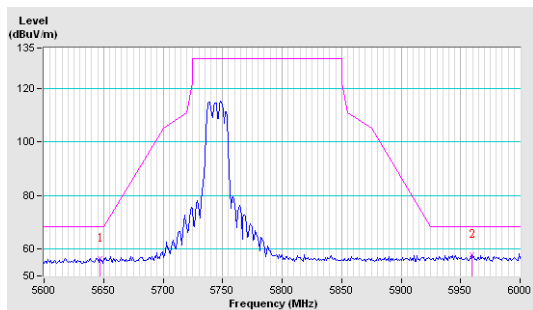
802.11ac (VHT80)



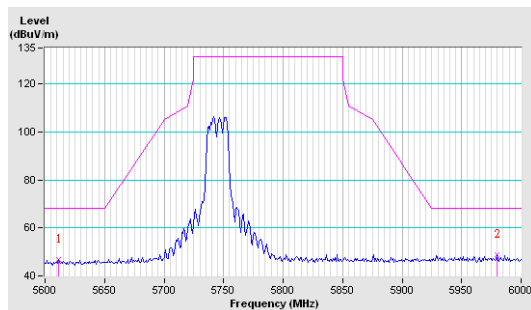
Mode D
802.11a

CH149

Horizontal

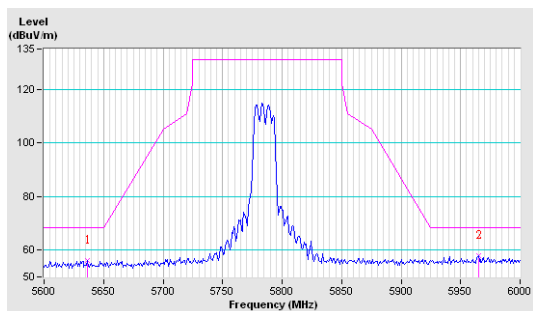


Vertical

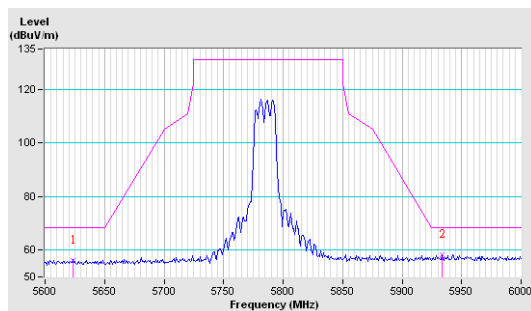


CH157

Horizontal

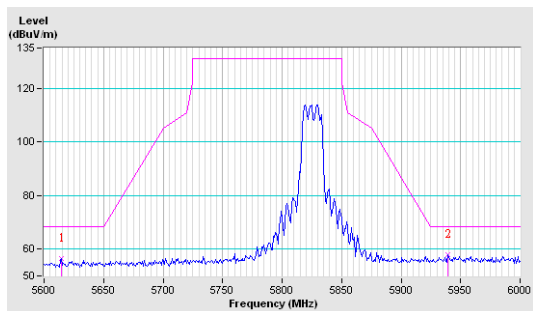


Vertical

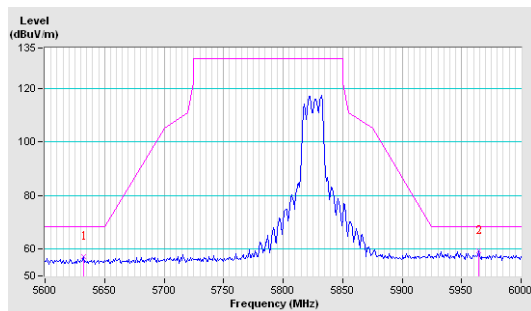


CH165

Horizontal



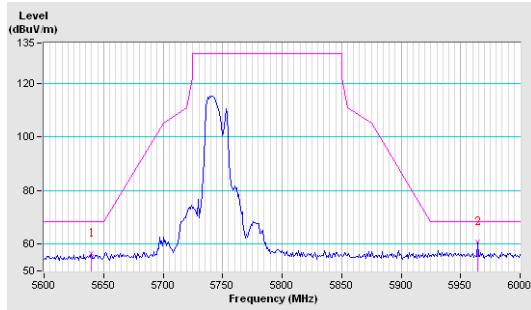
Vertical



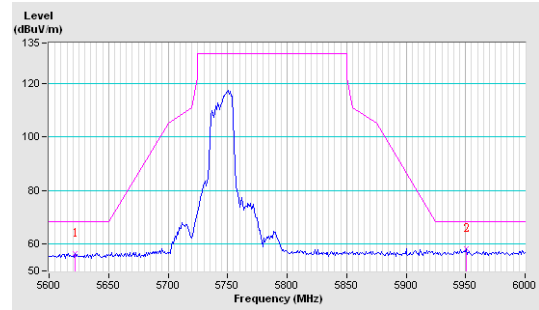
802.11n (HT20)

CH149

Horizontal

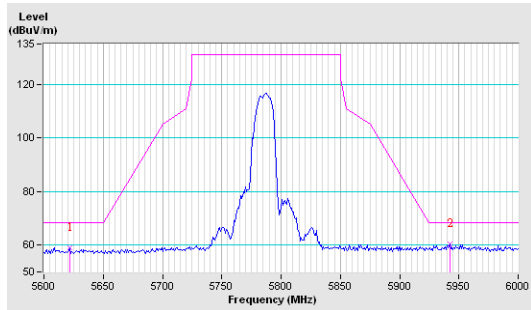


Vertical

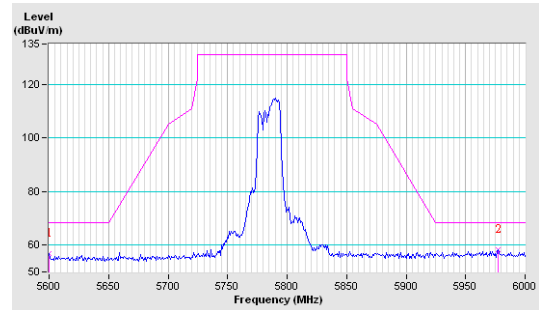


CH157

Horizontal

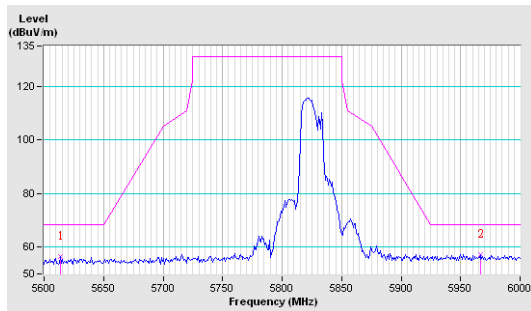


Vertical

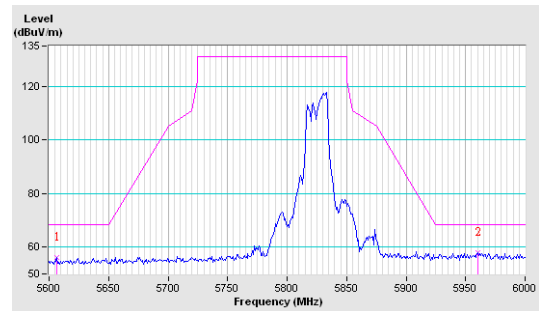


CH165

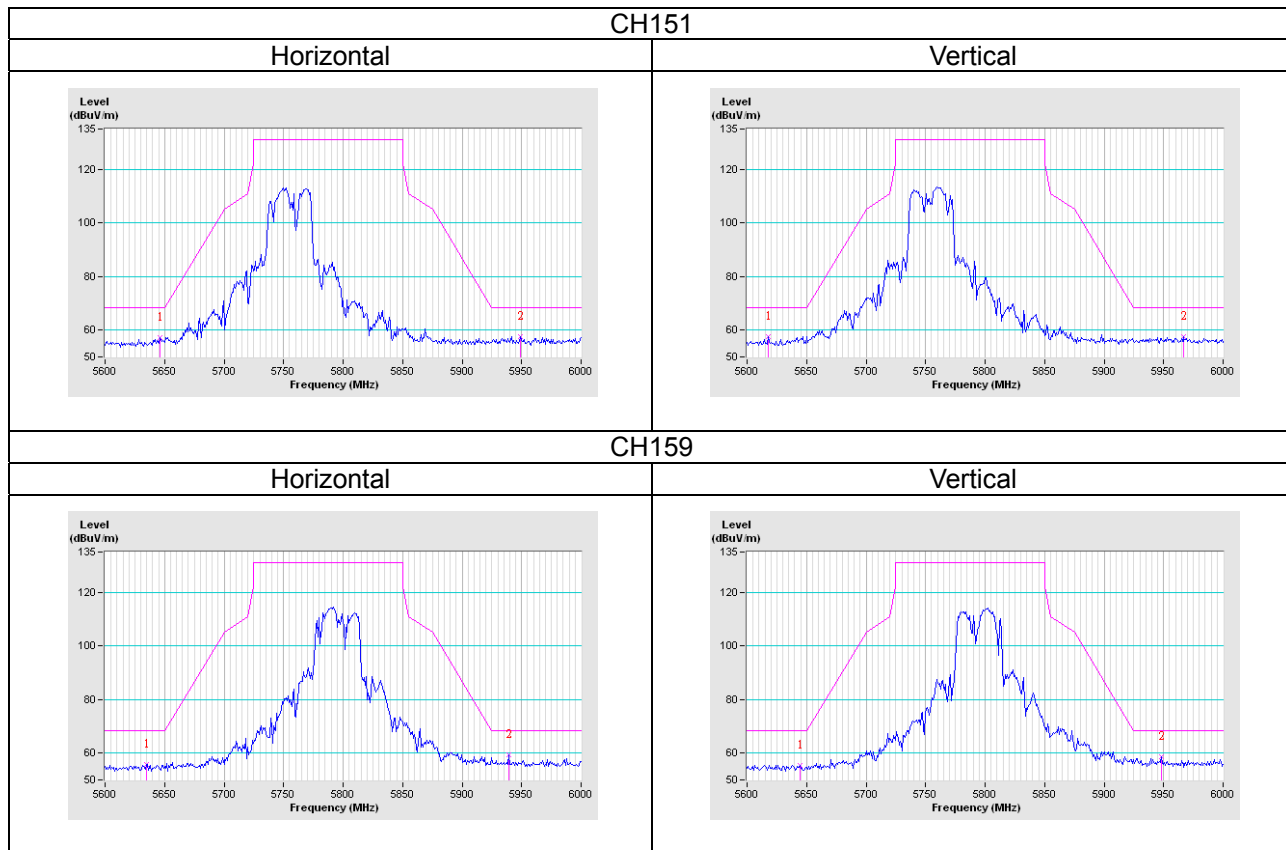
Horizontal



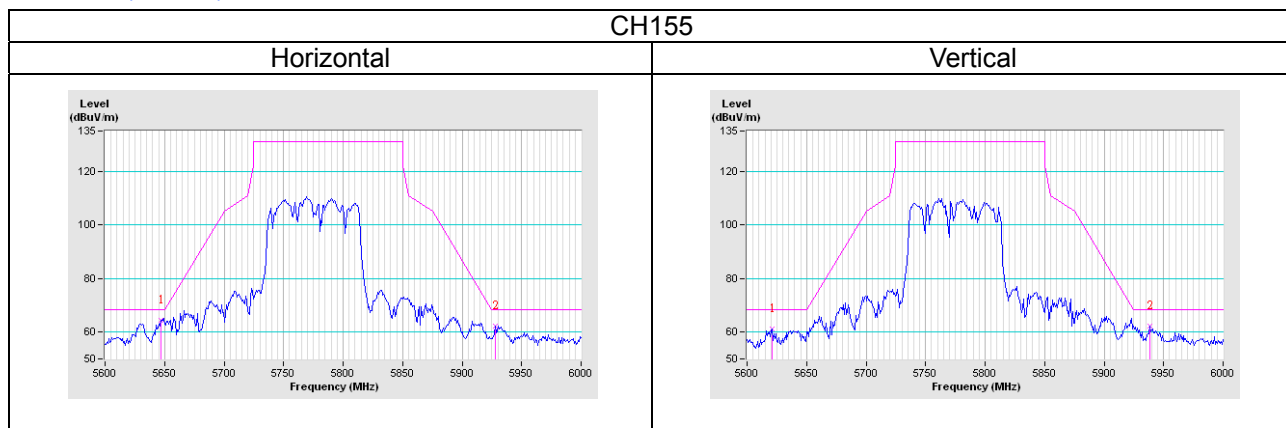
Vertical



802.11n (HT40)



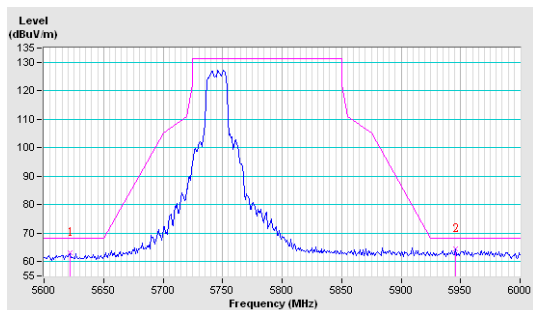
802.11ac (VHT80)



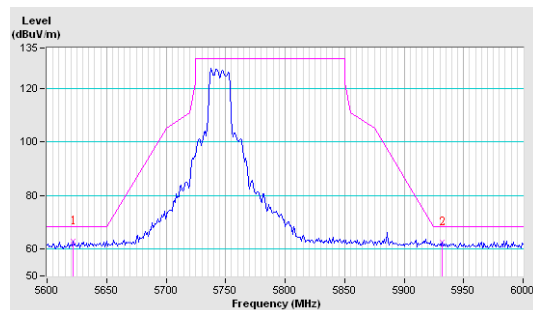
Mode E
802.11a

CH149

Horizontal

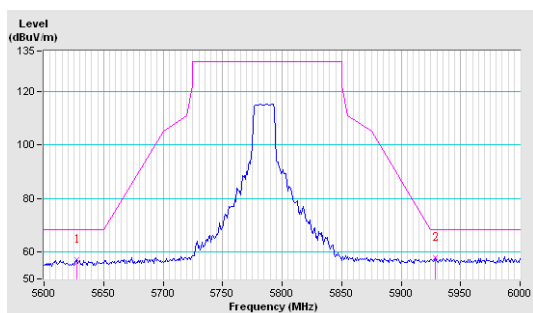


Vertical

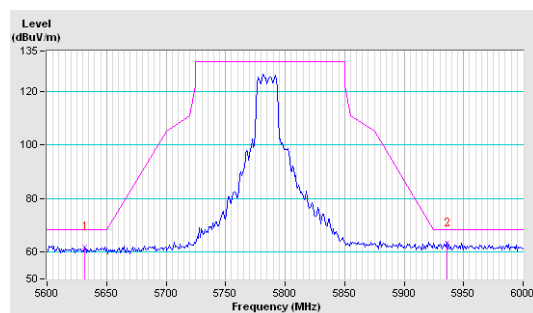


CH157

Horizontal

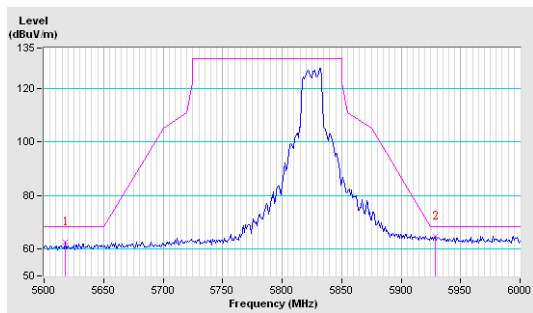


Vertical

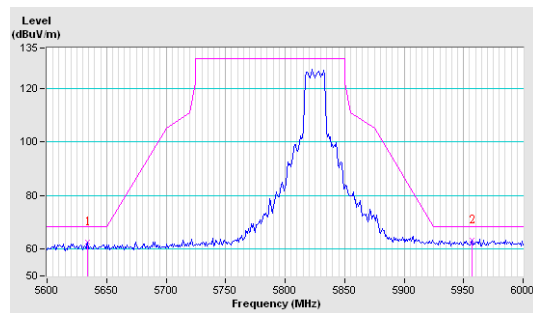


CH165

Horizontal



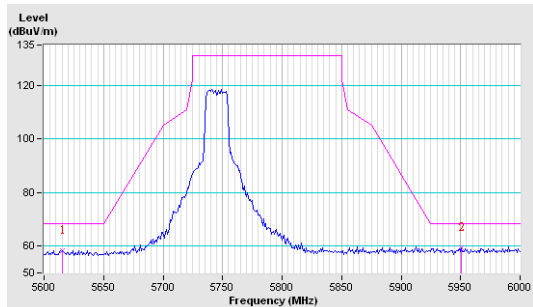
Vertical



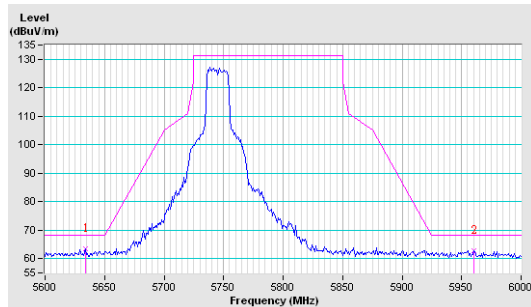
802.11n (HT20)

CH149

Horizontal

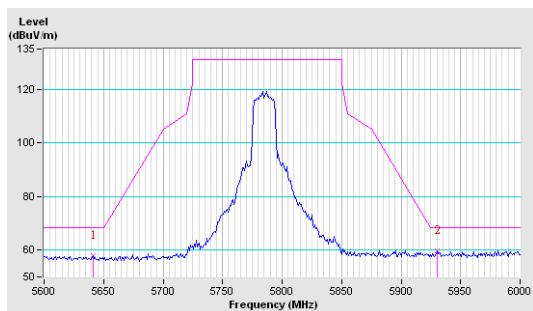


Vertical

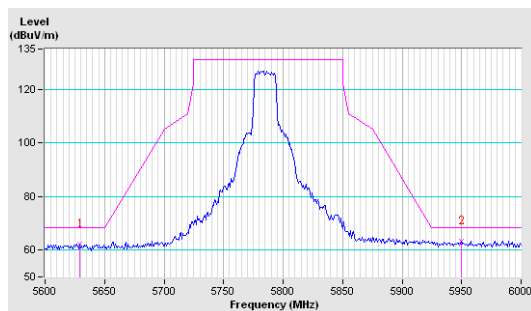


CH157

Horizontal

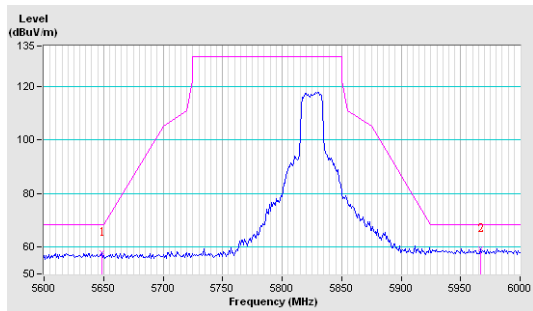


Vertical

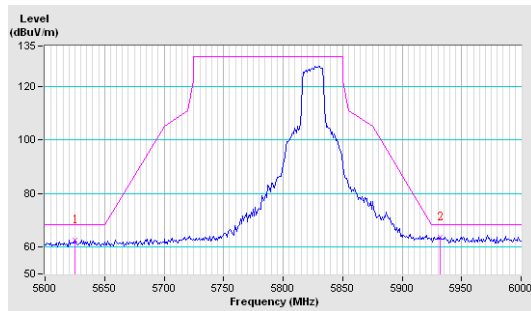


CH165

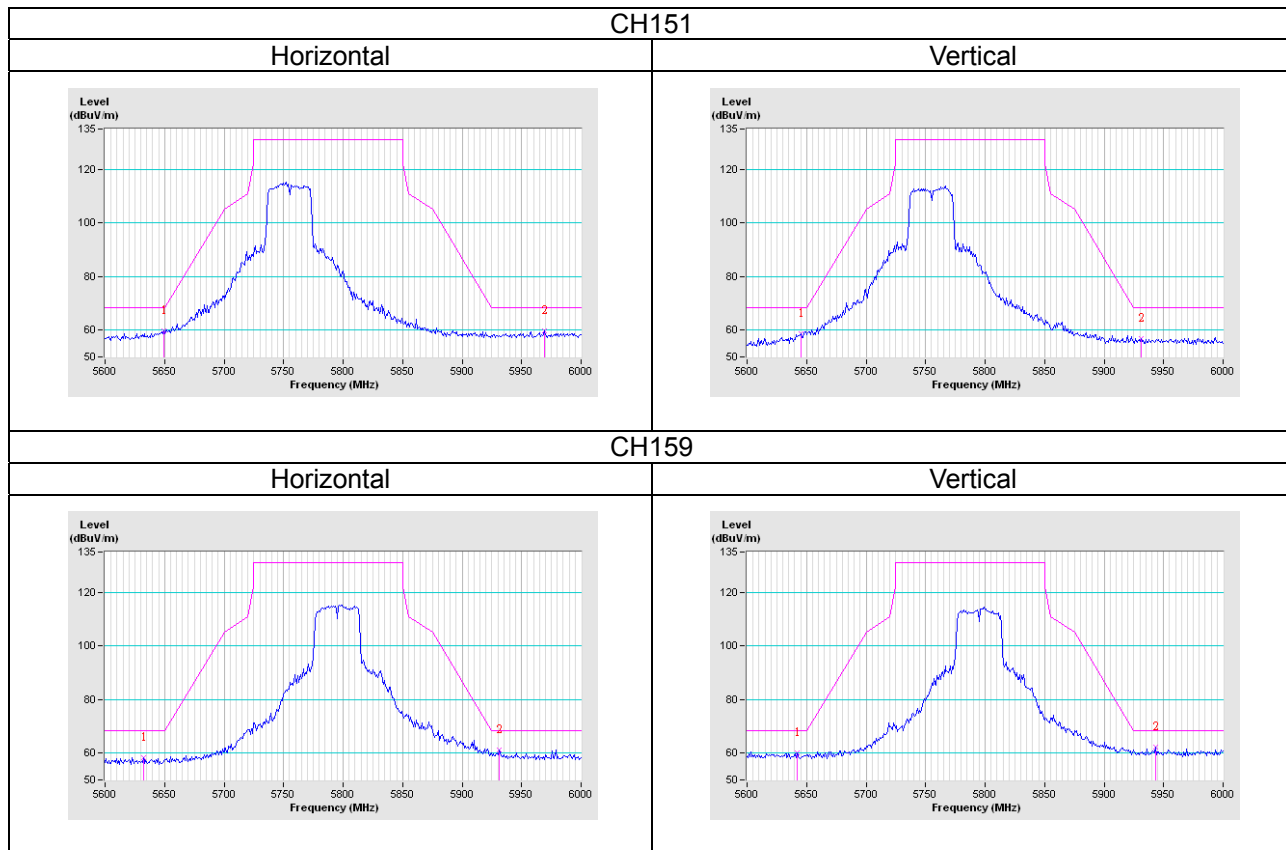
Horizontal



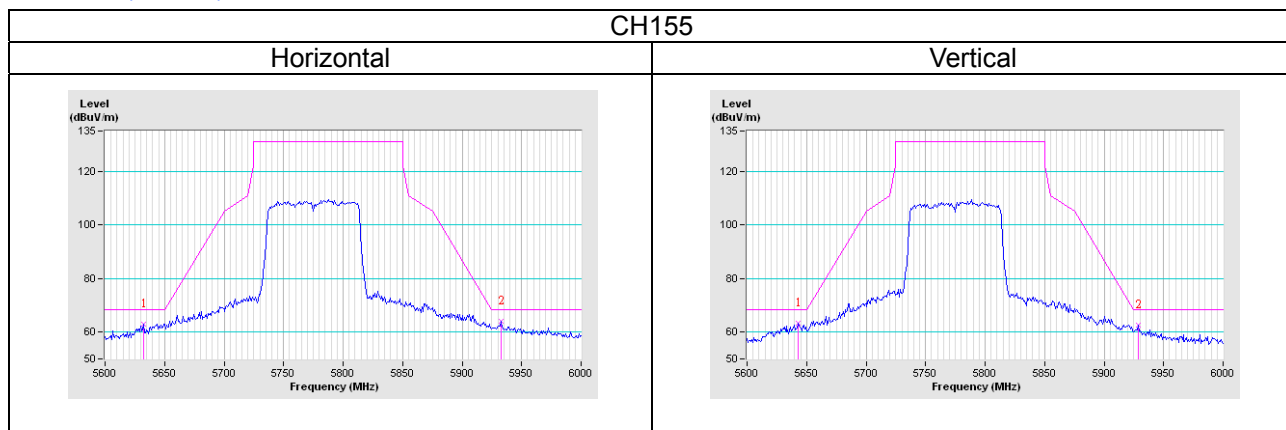
Vertical



802.11n (HT40)



802.11ac (VHT80)



Appendix – Information on the Testing Laboratories

We, Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch, were founded in 1988 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are FCC recognized accredited test firms and accredited and approved according to ISO/IEC 17025.

If you have any comments, please feel free to contact us at the following:

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Email: service.adt@tw.bureauveritas.com

Web Site: www.bureauveritas-adt.com

The address and road map of all our labs can be found in our web site also.

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