

TEST REPORT

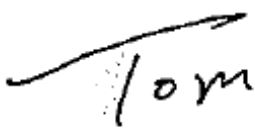
Applicant	Zhiwei Robotics Corp.
Address	Room 615, Building Y1, 112 liangxiu road, Pudong, Shanghai municipality, PRC

Manufacturer or Supplier	Zhiwei Robotics Corp.
Address	Room 615, Building Y1, 112 liangxiu road, Pudong, Shanghai municipality, PRC
Product Name	LattePanda Delta
Brand Name	LattePanda
Model	DFR0543
Additional Model & Model Difference	DFR0544, see items 3.1
Date of tests	Aug. 05, 2020~ Oct. 21, 2020

The tests have been carried out according to the requirements of the following standard:

☒ **FCC Part 15, Subpart E, Section 15.407**

CONCLUSION: The submitted sample was found to COMPLY with the test requirement

Tested by Tom Chen Project Engineer / EMC Department	Approved by Glyn He Assistant Manager / EMC Department
	 Date: Oct. 28, 2020

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Test Report No.: RF2008WDG0053-4

RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
RF2008WDG0053-4	Original release.	Oct. 28, 2020

1. SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

APPLIED STANDARD: FCC PART 15, SUBPART E (SECTION 15.407 UNDER NEW RULE)			
STANDARD SECTION	TEST TYPE	RESULT	REMARK
15.407(b)(6)	AC Power Conducted Emissions	PASS	Meet the requirement of limit.
15.407(b)(1/2/3/4/6)	Radiated Emissions & Band Edge Measurement	PASS	Meet the requirement of limit.
15.407(a)(1/2/3)	Max Average Transmit Power	PASS	Meet the requirement of limit.
15.407(a)(1/2/3)	Peak Power Spectral Density	PASS	Meet the requirement of limit.
15.407(g)	Frequency Stability	PASS	Meet the requirement of limit.
15.203	Antenna Requirement	PASS	i-pex type connector(See note)

Note: The antenna connector was fixed with glue. It cannot be replaced by the user.

1.1 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	UNCERTAINTY
Conducted emissions	9kHz~30MHz	2.70dB
Radiated emissions	9KHz ~ 30MHz	2.16dB
	30MHz ~ 1GMHz	3.60dB
	1GHz ~ 18GHz	4.82dB
	18GHz ~ 40GHz	5.00dB

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

2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

PRODUCT	LattePanda Delta
BRAND	LattePanda
MODEL NO.	DFR0543
ADDITIONAL NO.	DFR0544
FCC ID	2AIDMLPDF0543
POWER SUPPLY	DC 5V,3A/ 9V,3A/ 12V,3A/ 15V,3A/ 20V,2.25A from Adapter input AC 100-240V 50/60Hz 1A
MODULATION TYPE	256QAM, 64QAM, 16QAM, QPSK, BPSK for OFDM
MODULATION TECHNOLOGY	OFDM
TRANSFER RATE	802.11a: 54.0/ 48.0/ 36.0/ 24.0/ 18.0/ 12.0/ 9.0/ 6.0Mbps 802.11n: up to 150Mbps 802.11ac: up to 433.3Mbps
OPERATING FREQUENCY	5180 ~ 5240MHz, 5260 ~ 5320MHz 5500 ~ 5700MHz, 5745 ~ 5825MHz
NUMBER OF CHANNEL	5180 ~ 5240MHz: 4 channels for 802.11a, 802.11n,11ac (20MHz) 2 channels for 802.11n,11ac (40MHz): 1 channel for 802.11ac 80MHz 5260 ~ 5320MHz: 4 channels for 802.11a, 802.11n (20MHz) 2 channels for 802.11n, 11ac (40MHz) 1 channel for 802.11ac (80MHz) 5500 ~ 5700MHz: 11 channels for 802.11a, 802.11n (20MHz) 5 channels for 802.11n (40MHz) 2 channel for 802.11ac (80MHz) 5745 ~ 5825MHz: 5 channels for 802.11a, 802.11n,11ac (20MHz) 2 channels for 802.11n,11ac (40MHz) 1 channel for 802.11ac (80MHz)
CONDUCTED OUTPUT POWER	49.545mW for 5180 ~ 5240MHz (Maximum AVG Power) 45.604mW for 5260 ~ 5320MHz (Maximum AVG Power) 47.534mW for 5500 ~ 5700MHz (Maximum AVG Power) 37.931mW for 5745 ~ 5825MHz (Maximum AVG Power)
ANTENNA TYPE	5180 ~ 5240MHz: FPC antenna with -4.5dBi gain 5260 ~ 5320MHz: FPC antenna with -4.5dBi gain 5500 ~ 5700MHz: FPC antenna with -4.5dBi gain 5745 ~ 5825MHz: FPC antenna with -4.5dBi gain
I/O PORTS	Refer to user's manual
CABLE SUPPLIED	AC cable: Unshielded, detachable, 0.5m

NOTES:

1. The above EUT information is declared by manufacturer and for more detailed features description, please refers to the manufacturer's specifications or user's manual.
2. Please refer to the EUT photo document (Reference No.: 2008WDG0053) for detailed product photo.
3. Additional model DFR0544 is identical with the test model DFR0543 except the software and the model number for marketing purpose.
4. The EUT were powered by the following Adapter

ADAPTER	
BRAND:	LATTEPANDA
MODEL:	XYX-PD45X
INPUT:	AC 100-240V, 50/60HZ 1A
OUTPUT:	DC 5V,3A/ 9V,3A/ 12V,3A/ 15V,3A/ 20V,2.25A
DC LINE:	Unshielded, Non-detachable, 1.5m

5. The EUT incorporates a SISO function. Physically, the EUT provides 1 completed transmitter and 1 receiver.

MODULATION MODE	FUNCTION
802.11a	1TX/1RX
802.11n (HT20), 802.11ac (VHT20)	1TX/1RX
802.11n (HT40), 802.11ac (VHT40)	1TX/1RX
802.11ac (VHT80)	1TX/1RX

The modulation and bandwidth are similar for 802.11n mode for HT20 / HT40 and 802.11ac mode for VHT20 / VHT40, therefore investigated worst case for final test were chosen 802.11n (HT20/HT40) and record in the report.

2.2 DESCRIPTION OF TEST MODES

FOR 5150 ~ 5250MHz

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

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
36	5180 MHz	40	5200 MHz
44	5220 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	CHANNEL	FREQUENCY
42	5210MHz	--	--

FOR 5250 ~ 5350MHz

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

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
52	5260 MHz	56	5280 MHz
60	5300 MHz	64	5320 MHz

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

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
54	5270 MHz	62	5310 MHz

1 channel is provided for 802.11ac (VHT80):

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
58	5290MHz	--	--

FOR 5470 ~ 5725MHz

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

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
100	5500 MHz	104	5520 MHz
108	5540 MHz	112	5560 MHz
116	5580 MHz	120	5600 MHz
124	5620 MHz	128	5640 MHz
132	5660 MHz	136	5680 MHz
140	5700 MHz	--	--

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

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
102	5510 MHz	110	5550 MHz
118	5590 MHz	126	5630 MHz
134	5670 MHz		

2 channel is provided for 802.11ac (VHT80):

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
106	5530MHz	122	5610MHz

FOR 5725 ~ 5850MHz

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

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
149	5745MHz	153	5765MHz
157	5785MHz	161	5805MHz
165	5825MHz	--	--

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	CHANNEL	FREQUENCY
155	5775MHz	--	--

2.2.1 TEST MODE APPLICABILITY AND TESTED CHANNEL DETAIL

EUT CONFIGURE MODE	APPLICABLE TO				DESCRIPTION
	RE≥1G	RE<1G	PLC	APCM	
A	√	√	√	√	Powered by Adapter with wifi(5G) link

Where **RE≥1G**: Radiated Emission above 1GHz

RE<1G: Radiated Emission below 1GHz

PLC: Power Line Conducted Emission

APCM: Antenna Port Conducted Measurement

NOTE:

1. The EUT had been pre-tested on the positioned of each 3 axis. The worst case was found when positioned on **X-plane**.

NOTE: “-” means no effect.

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	FREQ. BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)
A	802.11a	5150-5250	36 to 48	36, 40, 48	OFDM	BPSK	6.0
	802.11n (20MHz)		36 to 48	36, 40, 48	OFDM	BPSK	6.5
	802.11n (40MHz)		38 to 46	38, 46	OFDM	BPSK	13.5
	802.11ac 80MHz		42	42	OFDM	BPSK	29.3
	802.11a	5250-5350	52 to 64	52, 60, 64	OFDM	BPSK	6.0
	802.11n (20MHz)		52 to 64	52, 60, 64	OFDM	BPSK	6.5
	802.11n (40MHz)		54 to 62	54, 62	OFDM	BPSK	13.5
	802.11ac 80MHz		58	58	OFDM	BPSK	29.3
	802.11a	5470-5725	100 to 140	100, 116, 140	OFDM	BPSK	6.0
	802.11n (20MHz)		100 to 140	100, 116, 140	OFDM	BPSK	6.5
	802.11n (40MHz)		102 to 134	102, 110, 134	OFDM	BPSK	13.5
	802.11ac 80MHz		106, 122	106, 122	OFDM	BPSK	29.3
	802.11a	5725-5850	149 to 165	149, 157, 165	OFDM	BPSK	6.0
	802.11n (20MHz)		149 to 165	149, 157, 165	OFDM	BPSK	6.5
	802.11n (40MHz)		151 to 159	151, 159	OFDM	BPSK	13.5
	802.11ac 80MHz		155	155	OFDM	BPSK	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	FREQ. BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)
A	802.11a	5150-5250 5470-5725 5725-5850	36 to 48 100 to 140 149 to 165	36	OFDM	BPSK	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	FREQ. BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)
A	802.11a	5150-5250 5470-5725 5725-5850	36 to 48 100 to 140 149 to 165	36	OFDM	BPSK	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	FREQ. BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)
A	802.11a	5150-5250	36 to 48	36, 40, 48	OFDM	BPSK	6.0
	802.11n (20MHz)		36 to 48	36, 40, 48	OFDM	BPSK	6.5
	802.11n (40MHz)		38 to 46	38, 46	OFDM	BPSK	13.5
	802.11ac 80MHz		42	42	OFDM	BPSK	29.3
	802.11a	5250-5350	52 to 64	52, 60, 64	OFDM	BPSK	6.0
	802.11n (20MHz)		52 to 64	52, 60, 64	OFDM	BPSK	6.5
	802.11n (40MHz)		54 to 62	54, 62	OFDM	BPSK	13.5
	802.11ac 80MHz		58	58	OFDM	BPSK	29.3
	802.11a	5470-5725	100 to 140	100, 116, 140	OFDM	BPSK	6.0
	802.11n (20MHz)		100 to 140	100, 116, 140	OFDM	BPSK	6.5
	802.11n (40MHz)		102 to 134	102, 110, 134	OFDM	BPSK	13.5
	802.11ac 80MHz		106, 122	106, 122	OFDM	BPSK	29.3
	802.11a	5725-5850	149 to 165	149, 157, 165	OFDM	BPSK	6.0
	802.11n (20MHz)		149 to 165	149, 157, 165	OFDM	BPSK	6.5
	802.11n (40MHz)		151 to 159	151, 159	OFDM	BPSK	13.5
	802.11ac 80MHz		155	155	OFDM	BPSK	29.3

TEST CONDITION:

APPLICABLE TO	ENVIRONMENTAL CONDITIONS	INPUT POWER(ADAPTER)	TESTED BY
RE<1G	24deg. C, 55%RH	AC 120V 60Hz	Vincent
RE≥1G	24deg. C, 55%RH	AC 120V 60Hz	Vincent
PLC	20deg. C, 56%RH	AC 120V 60Hz	Ming Bai
APCM	20deg. C, 55%RH	AC 120V 60Hz	Daniel



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VERITAS

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2.3 DUTY CYCLE OF TEST SIGNAL

802.11a: Duty cycle = $2.045/2.088 = 0.979$, Duty factor = $10 * \log(1/0.979) = 0.092$

802.11n (HT20): Duty cycle = $36.974/37.149 = 0.995$, Duty factor = $10 * \log(1/0.995) = 0.022$

802.11n (HT40): Duty cycle = $23.756/24.031 = 0.989$, Duty factor = $10 * \log(1/0.989) = 0.048$

802.11ac (VHT80): Duty cycle = $10.955/11.125 = 0.985$, Duty factor = $10 * \log(1/0.985) = 0.066$



2.4 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as a dependent 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.

NO.	PRODUCT	BRAND	MODEL NO.	SERIAL NO.	FCC ID
1	Notebook	DELL	Inspiron 14 N4030	3J9WVP1	N/A
2	Mouse	Lenovo	E430	MP-0DN27	N/A
3	Keyboard	DELL	KB212-B	CN-0N291F-71581-46L-00BB-A01	N/A
4	Monitor	DELL	U2410f	23.058D0.017G	N/A
5	Monitor	Lenovo	L2364wA	0ML0041C3224759	N/A
6	Earphone	Lenovo	P-320	HP001	N/A
7	Wireless Router	TP-LINK	TL-WDR3310	1240431130	N/A
8	USB Driver	Kingston	DataTraveler	3RJD8-68DC4U-3VFUW	N/A
9	TF Card	Kingston	SDC4/8GB	J4L8F-9P6T27-8XBD6	N/A

NO.	DESCRIPTION OF THE ABOVE SUPPORT UNITS
1	AC Line: Unshielded, Detachable 0.8m, DC Line: Unshielded, Detachable 1.5m.
2	USB Line: Shielded, Non-Detachable 1.8m.
3	USB Line: Shielded, Non-Detachable 1.8m with one core.
4-5	AC Line: Unshielded, Detachable 1.8m. HDMI Line: Shielded, Detachable 1.5m.
6	Earphone Line: Shielded, Non-Detachable 1.5m.
7	DC Line: Unshielded, Non-Detachable 1.5m. RJ45 Line: Non-shielded Detachable 1m or 10m
8-9	N/A

Remarks: Notebook and Wireless Router and distal support units.

2.5 GENERAL DESCRIPTION OF APPLIED STANDARDS

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

FCC Part 15, Subpart E (15.407)

789033 D02 General UNII Test Procedures New Rules v02r01

ANSI C63.10-2013

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

3. TEST TYPES AND RESULTS

3.1 RADIATED EMISSION AND BANDEDGE MEASUREMENT

3.1.1 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

NOTES:

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 30dB under any condition of modulation.

3.1.2 LIMITS OF UNWANTED EMISSION OUT OF THE RESTRICTED BANDS

APPLICABLE TO	LIMIT	
789033 D02 General UNII Test Procedures New Rules v02r01	FIELD STRENGTH AT 3m	
	PK: 74 (dBμV/m)	AV: 54 (dBμV/m)
APPLICABLE TO	EIRP LIMIT	EQUIVALENT FIELD STRENGTH AT 3m
15.407(b)(1)	PK: -27 (dBm/MHz)	PK: 68.2 (dBμV/m)
15.407(b)(2)		
15.407(b)(3)		
15.407(b)(4)	Note	Note

NOTE: For transmitters operating in the 5.725-5.85 GHz band:

Section 15.407(b)(4) specifies the unwanted emissions limit for the U-NII-3 band. A band emissions mask is specified in Section 15.407(b)(4)(i). An alternative to the band emissions mask is specified in Section 15.407(b)(4)(ii). The alternative limits are based on the highest antenna gain specified in the filing. There are also marketing and importation restrictions for the alternative limit.

15.407(b)(4)(i) All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

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

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

3.1.3 TEST INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial No.	Next Cal.
EMI Test Receiver	Rohde&Schwarz	ESU40	100449	Mar. 17,21
Signal and Spectrum Analyzer	Rohde&Schwarz	FSV7	102331	May 13, 21
Active Loop Antenna (9KHz -30MHz)	SCHWARZBECK	FMZB 1519B	1519B-045	May 29,21
Amplifier (9KHz -1GHz)	Burgeon	BPA-530	100210	Mar. 14,21
Bilog Antenna (20MHz -2GHz)	Teseq	CBL 6111D	30643	May 29,21
Horn Antenna (1GHz -18GHz)	ETS -Lindgren	3117	00062558	May 29,21
Horn Antenna (18GHz -40GHz)	SCHWARZBECK	BBHA 9170	BBHA9170147	May 09, 21
3m Semi-anechoic Chamber	ETS-LINDGREN	9m*6m*6m	NSEMC003	May 22,21
Test Software	ADT	ADT_Radiated_V7.6.15.9.2	N/A	N/A
Broadband Preamplifier (1GHz~18GHz)	SCHWARZBECK	BBV9718	305	May 08,21
Pre-Amplifier (18GHz-40GHz)	EMCI	EMC 184045	980102	Mar. 03,21
Test Software	ADT	ADT_Radiated_V7.6.15.9.2	N/A	N/A

NOTES:

1. The calibration interval of the above test instruments are 12 months and the calibrations are traceable to CEPREI/CHINA, GRGT/CHINA and NIM/CHINA.
2. The horn antenna is used only for the measurement of emission frequency above 1GHz if tested.
3. The FCC Site Registration No. is 749762.

3.1.4 TEST PROCEDURES

- a. The EUT was placed on the top of a rotating table 1.5 meters(above 1GHz) and 0.8 meters(below 1GHz) above the ground at a 3 meters semi-anechoic chamber. 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 antenna is a broadband antenna, and its height 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 Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

NOTES:

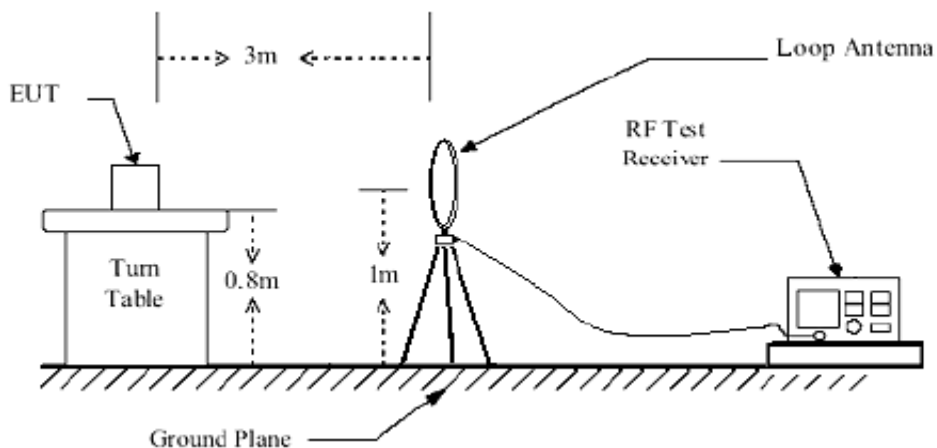
1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection at frequency below 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
3. The resolution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

3.1.5 DEVIATION FROM TEST STANDARD

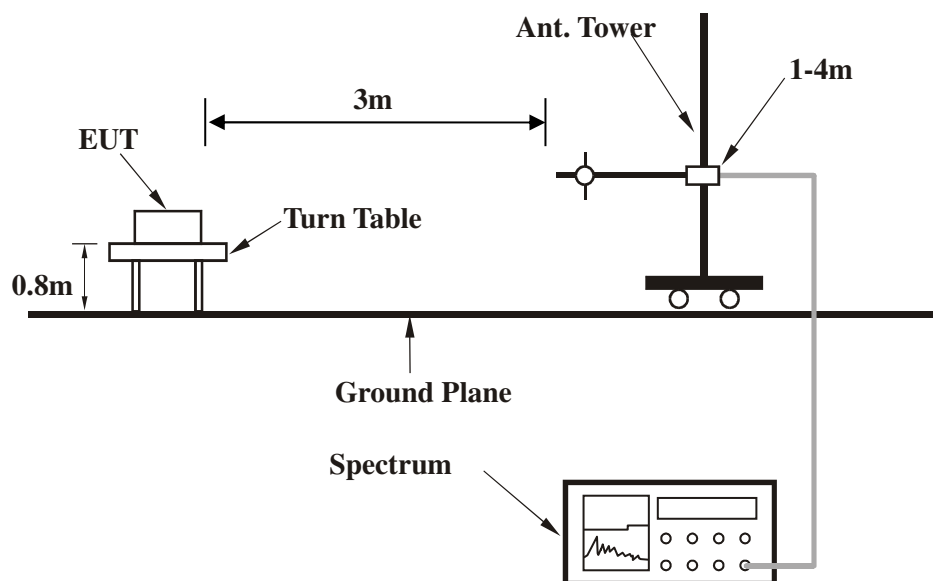
No deviation.

3.1.6 TEST SETUP

Below 30MHz

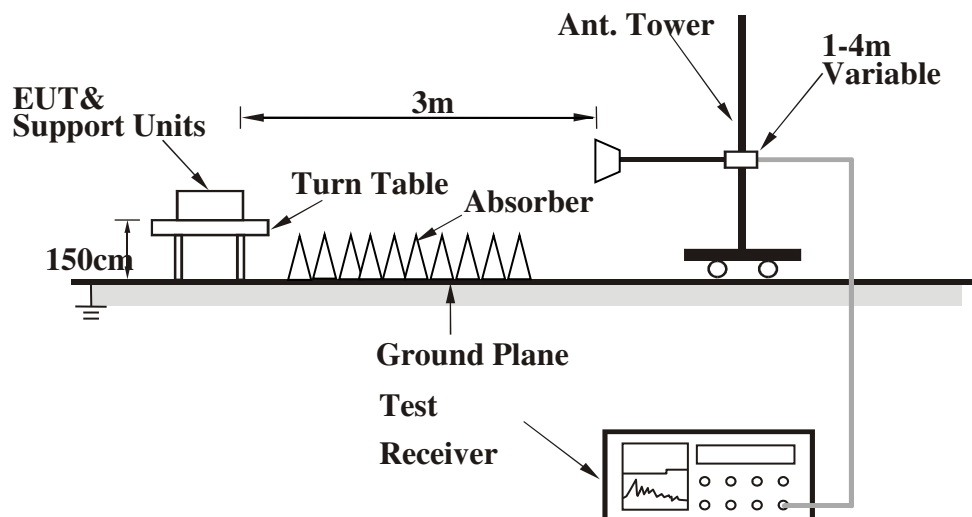


Below 1GHz test setup



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

Above 1GHz test setup



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

3.1.7 EUT OPERATING CONDITION

- Set the EUT under full load condition and placed them on a testing table.
- Set the transmitter part of EUT under transmission condition continuously at specific channel frequency.
- The necessary accessories enable the EUT in full functions.

3.1.8 TEST RESULTS

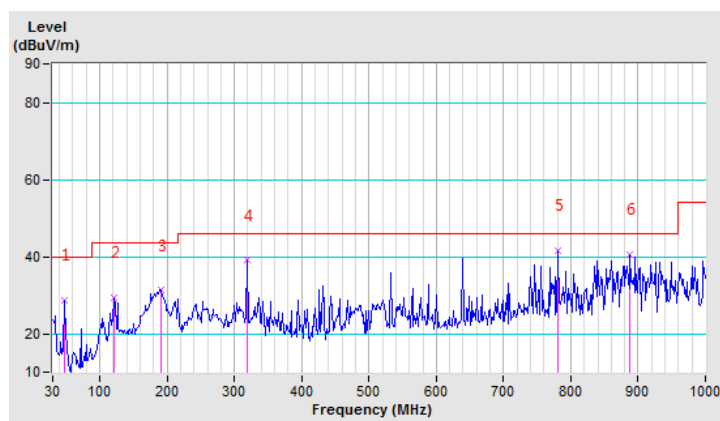
BELOW 1GHz WORST-CASE DATA

CHANNEL	TX Channel 36	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	47.10	28.79 QP	40.00	-11.21	1.00 H	58	48.36	-19.57
2	121.71	29.33 QP	43.50	-14.17	1.00 H	162	49.03	-19.70
3	190.11	31.21 QP	43.50	-12.29	1.00 H	58	50.38	-19.17
4	319.13	39.04 QP	46.00	-6.96	1.00 H	94	52.74	-13.70
5	780.82	41.60 QP	46.00	-4.40	1.00 H	115	45.14	-3.54
6	888.08	40.66 QP	46.00	-5.34	1.00 H	75	43.24	-2.58

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).
3. The emission levels of other frequencies were greater than 20dB margin.
4. 9KHz~30MHz have been test and test data more than 20dB margin.
5. Margin value = Emission level – Limit value.

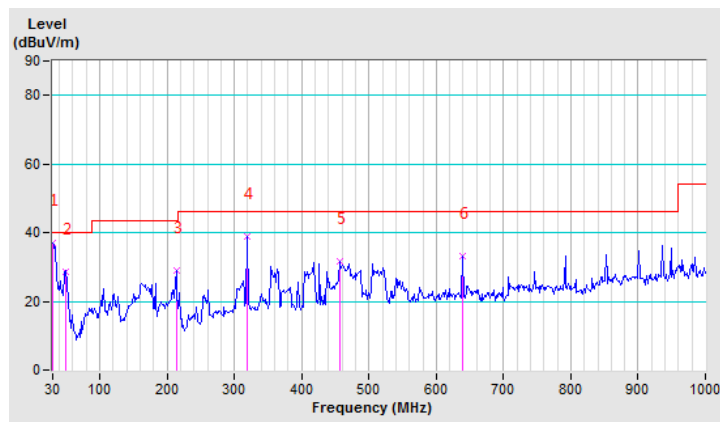


CHANNEL	TX Channel 36	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	9KHz ~ 1GHz		

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	30.00	36.90 QP	40.00	-3.10	1.00 V	102	49.04	-12.14
2	50.21	28.49 QP	40.00	-11.51	1.00 V	153	49.63	-21.14
3	213.43	28.98 QP	43.50	-14.52	1.00 V	56	48.67	-19.69
4	319.13	39.00 QP	46.00	-7.00	1.00 V	89	52.70	-13.70
5	455.93	31.68 QP	46.00	-14.32	1.00 V	138	42.06	-10.38
6	639.36	33.32 QP	46.00	-12.68	1.00 V	78	39.15	-5.83

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).
3. The emission levels of other frequencies were greater than 20dB margin.
4. 9KHz~30MHz have been test and test data more than 20dB margin.
5. Margin value = Emission level – Limit value.



Band 1 (5150-5250MHz): ABOVE 1GHz DATA 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	5142.00	67.64 PK	74.00	-6.36	1.00 H	268	58.85	8.79
2	5142.00	46.90 AV	54.00	-7.10	1.00 H	268	38.11	8.79
3	5150.00	69.78 PK	74.00	-4.22	1.00 H	268	60.98	8.80
4	5150.00	48.87 AV	54.00	-5.13	1.00 H	268	40.07	8.80
5	*5180.00	103.67 PK			1.00 H	268	94.85	8.82
6	*5180.00	89.91 AV			1.00 H	268	81.09	8.82
7	#10360.00	58.00 PK	68.20	-10.20	1.00 H	0	40.19	17.81
8	15540.00	62.03 PK	74.00	-11.97	1.00 H	0	37.94	24.09
9	15540.00	48.60 AV	54.00	-5.40	1.00 H	0	24.51	24.09

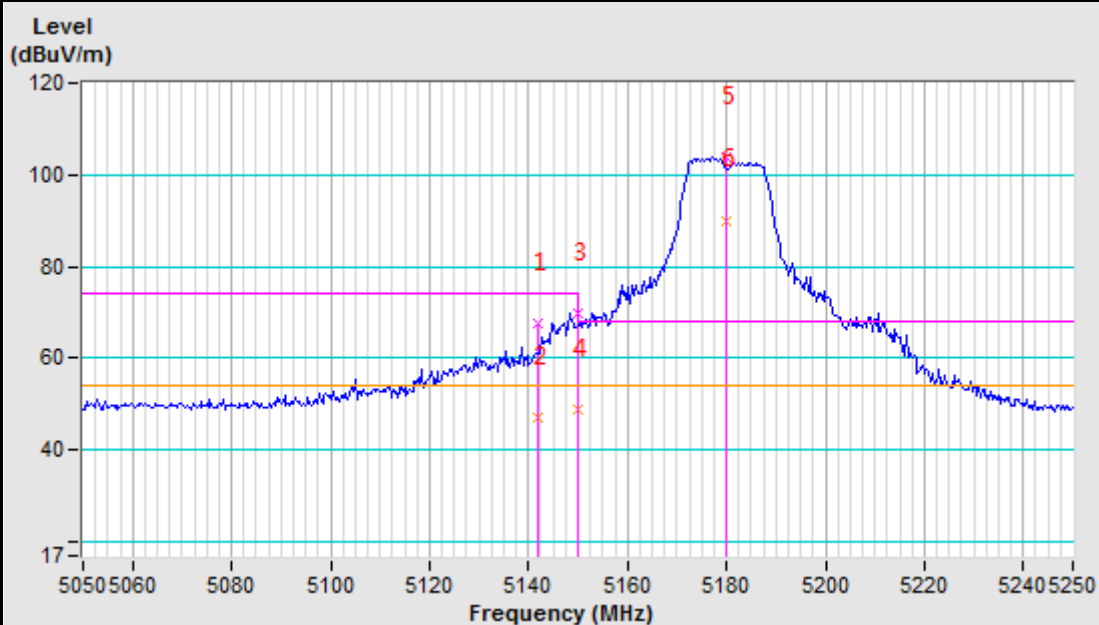
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5148.00	63.36 PK	74.00	-10.64	1.00 V	120	54.56	8.80
2	5148.00	43.20 AV	54.00	-10.80	1.00 V	120	34.40	8.80
3	5150.00	61.74 PK	74.00	-12.26	1.00 V	120	52.94	8.80
4	5150.00	44.50 AV	54.00	-9.50	1.00 V	120	35.70	8.80
5	*5180.00	96.95 PK			1.00 V	120	88.13	8.82
6	*5180.00	83.50 AV			1.00 V	120	74.68	8.82
7	#10360.00	57.30 PK	68.20	-10.90	1.00 V	N/A	39.49	17.81
8	15540.00	61.60 PK	74.00	-12.40	1.00 V	0	37.51	24.09
9	15540.00	48.10 AV	54.00	-5.90	1.00 V	0	24.01	24.09

REMARKS:

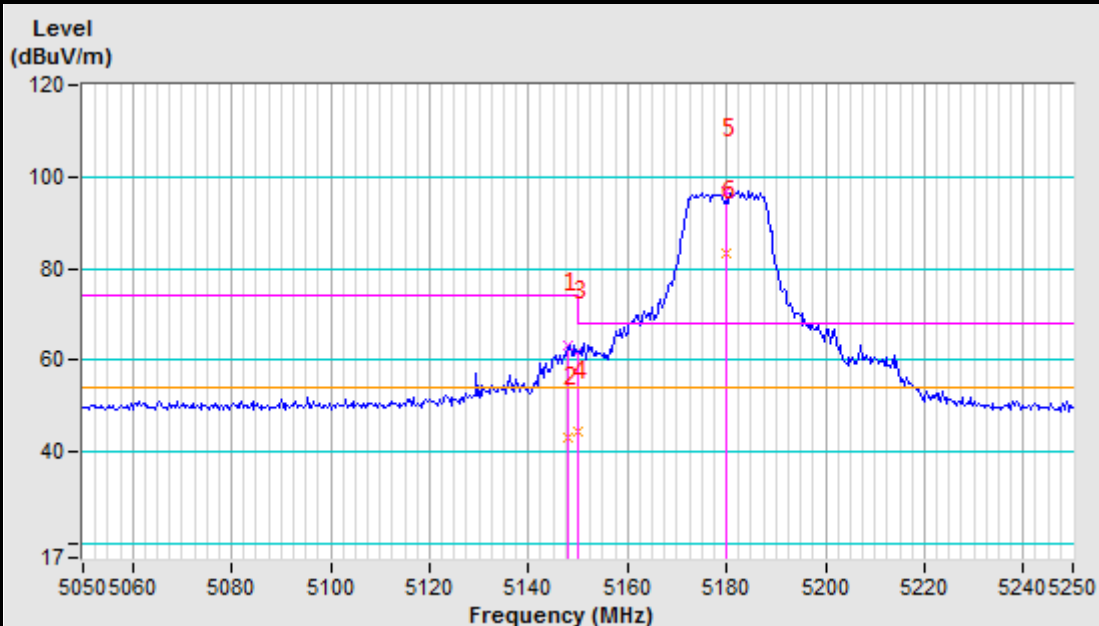
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The emission levels of other frequencies were greater than 20dB margin.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

Band edge Plot

5180MHz Horizontal



5180MHz Vertical



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	5128.00	50.54 PK	74.00	-23.46	1.00 H	260	41.76	8.78
2	5128.00	38.70 AV	54.00	-15.30	1.00 H	260	29.92	8.78
3	5150.00	49.65 PK	74.00	-24.35	1.00 H	260	40.85	8.80
4	5150.00	39.68 AV	54.00	-14.32	1.00 H	260	30.88	8.80
5	*5200.00	99.12 PK			1.00 H	260	90.27	8.85
6	*5200.00	87.03 AV			1.00 H	260	78.18	8.85
7	#10400.00	58.12 PK	68.20	-10.08	1.00 H	0	40.12	18.00
8	15600.00	61.37 PK	74.00	-12.63	1.00 H	0	37.16	24.21
9	15600.00	48.53 AV	54.00	-5.47	1.00 H	0	24.32	24.21
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	5145.00	50.27 PK	74.00	-23.73	1.00 V	30	41.48	8.79
2	5145.00	38.77 AV	54.00	-15.23	1.00 V	30	29.98	8.79
3	5150.00	50.10 PK	74.00	-23.90	1.00 V	30	41.30	8.80
4	5150.00	39.10 AV	54.00	-14.90	1.00 V	30	30.30	8.80
5	*5200.00	98.20 PK			1.00 V	30	89.35	8.85
6	*5200.00	87.25 AV			1.00 V	30	78.40	8.85
7	#10400.00	57.64 PK	68.20	-10.56	1.00 V	0	39.64	18.00
8	15540.00	61.28 PK	74.00	-12.72	1.00 V	0	37.19	24.09
9	15540.00	48.20 AV	54.00	-5.80	1.00 V	0	24.11	24.09

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).
3. The emission levels of other frequencies were greater than 20dB margin.
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	5144.00	50.10 PK	74.00	-23.90	1.00 H	50	41.30	8.80
2	5144.00	39.60 AV	54.00	-14.40	1.00 H	50	30.80	8.80
3	5150.00	50.87 PK	74.00	-23.13	1.00 H	50	42.07	8.80
4	5150.00	40.12 AV	54.00	-13.88	1.00 H	50	31.32	8.80
5	*5240.00	102.01 PK			1.00 H	50	93.13	8.88
6	*5240.00	89.21 AV			1.00 H	50	80.33	8.88
7	5350.00	50.86 PK	74.00	-23.14	1.00 H	50	41.88	8.98
8	5350.00	41.24 AV	54.00	-12.76	1.00 H	50	32.26	8.98
9	5380.00	50.06 PK	74.00	-23.94	1.00 H	50	41.05	9.01
10	5380.00	40.03 AV	54.00	-13.97	1.00 H	50	31.02	9.01
11	#10480.00	58.34 PK	68.20	-9.86	1.00 H	0	39.97	18.37
12	15720.00	62.34 PK	74.00	-11.66	1.00 H	0	37.91	24.43
13	15720.00	49.10 AV	54.00	-4.90	1.00 H	0	24.67	24.43
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	5142.00	49.67 PK	74.00	-24.33	1.00 V	20	40.88	8.79
2	5142.00	38.70 AV	54.00	-15.30	1.00 V	20	29.91	8.79
3	5150.00	50.08 PK	74.00	-23.92	1.00 V	20	41.28	8.80
4	5150.00	39.90 AV	54.00	-14.10	1.00 V	20	31.10	8.80
5	#5159.00	50.07 PK	68.20	-18.13	1.00 V	20	41.27	8.80
6	#5159.00	40.00 AV	54.00	-14.00	1.00 V	20	31.20	8.80
7	*5240.00	97.06 PK			1.00 V	20	88.18	8.88
8	*5240.00	85.20 AV			1.00 V	20	76.32	8.88
9	5350.00	51.24 PK	74.00	-22.76	1.00 V	20	42.26	8.98
10	5350.00	40.50 AV	54.00	-13.50	1.00 V	20	31.52	8.98
11	#10480.00	57.92 PK	68.20	-10.28	1.00 V	0	39.55	18.37
12	15720.00	61.93 PK	74.00	-12.07	1.00 V	0	37.50	24.43
13	15720.00	48.70 AV	54.00	-5.30	1.00 V	0	24.27	24.43

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).
3. The emission levels of other frequencies were greater than 20dB margin.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

802.11n (20MHz)

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

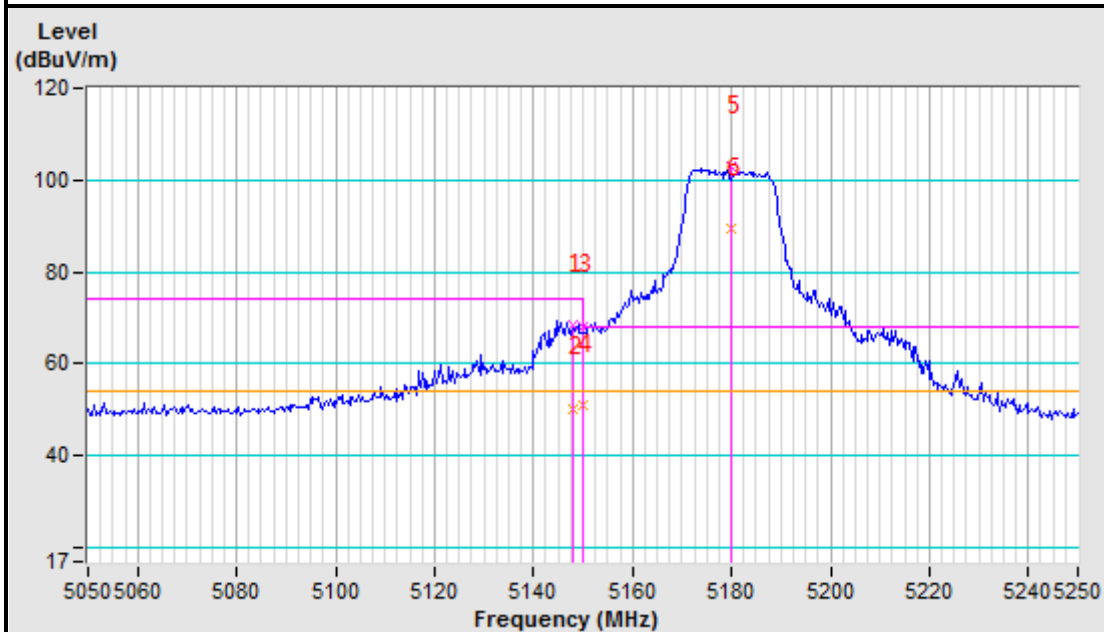
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5148.00	68.29 PK	74.00	-5.71	1.00 H	35	59.49	8.80
2	5148.00	50.20 AV	54.00	-3.80	1.00 H	35	41.40	8.80
3	5150.00	68.10 PK	74.00	-5.90	1.00 H	35	59.30	8.80
4	5150.00	51.00 AV	54.00	-3.00	1.00 H	35	42.20	8.80
5	*5180.00	102.83 PK			1.00 H	35	94.01	8.82
6	*5180.00	89.45 AV			1.00 H	35	80.63	8.82
7	#10360.00	59.00 PK	68.20	-9.20	1.00 H	0	41.19	17.81
8	15540.00	62.24 PK	74.00	-11.76	1.00 H	0	38.15	24.09
9	15540.00	48.40 AV	54.00	-5.60	1.00 H	0	24.31	24.09
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	5141.00	62.63 PK	74.00	-11.37	1.00 V	250	53.84	8.79
2	5141.00	38.90 AV	54.00	-15.10	1.00 V	250	30.11	8.79
3	5150.00	61.51 PK	74.00	-12.49	1.00 V	250	52.71	8.80
4	5150.00	42.10 AV	54.00	-11.90	1.00 V	250	33.30	8.80
5	*5180.00	96.39 PK			1.00 V	250	87.57	8.82
6	*5180.00	83.05 AV			1.00 V	250	74.23	8.82
7	#10360.00	57.82 PK	68.20	-10.38	1.00 V	0	40.01	17.81
8	15540.00	61.93 PK	74.00	-12.07	1.00 V	0	37.84	24.09
9	15540.00	48.35 AV	54.00	-5.65	1.00 V	0	24.26	24.09

REMARKS:

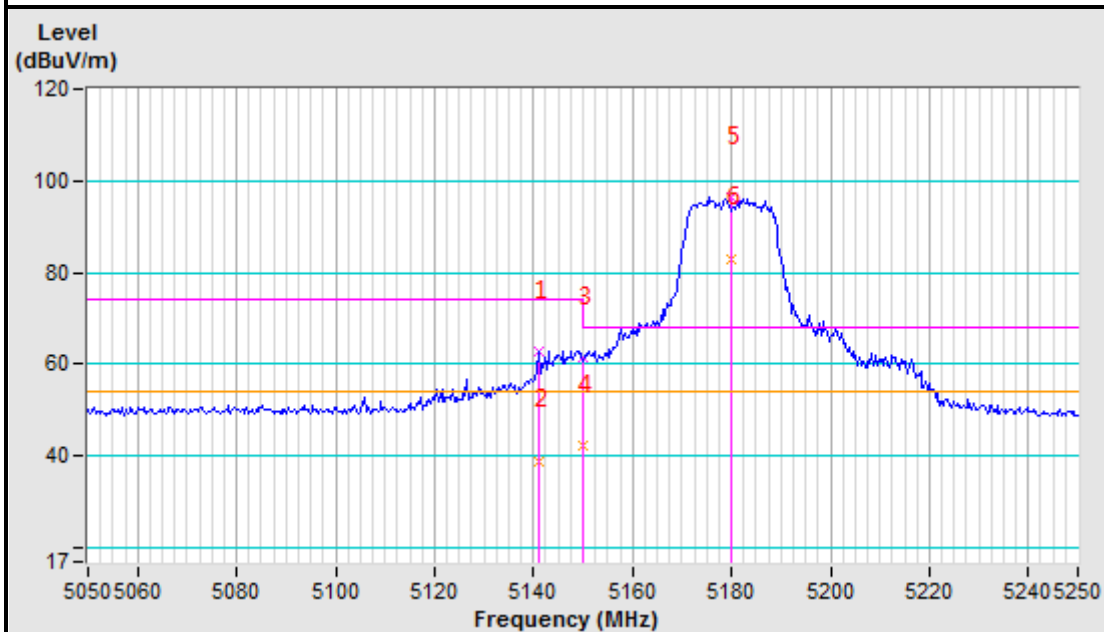
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The emission levels of other frequencies were greater than 20dB margin.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

Band edge Plot

5180MHz Horizontal



5180MHz Vertical



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	5142.00	57.24 PK	74.00	-16.76	1.00 H	220	48.45	8.79
2	5142.00	38.10 AV	54.00	-15.90	1.00 H	220	29.31	8.79
3	5150.00	57.34 PK	74.00	-16.66	1.00 H	220	48.54	8.80
4	5150.00	38.24 AV	54.00	-15.76	1.00 H	220	29.44	8.80
5	*5200.00	102.62 PK			1.00 H	220	93.77	8.85
6	*5200.00	89.19 AV			1.00 H	220	80.34	8.85
7	#10400.00	58.39 PK	68.20	-9.81	1.00 H	0	40.39	18.00
8	15600.00	62.22 PK	74.00	-11.78	1.00 H	0	38.01	24.21
9	15600.00	49.25 AV	54.00	-4.75	1.00 H	0	25.04	24.21
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	5145.00	51.04 PK	74.00	-22.96	1.00 V	0	42.25	8.79
2	5145.00	38.79 AV	54.00	-15.21	1.00 V	0	30.00	8.79
3	5150.00	50.30 PK	74.00	-23.70	1.00 V	0	41.50	8.80
4	5150.00	39.40 AV	54.00	-14.60	1.00 V	0	30.60	8.80
5	*5200.00	97.24 PK			1.00 V	0	88.39	8.85
6	*5200.00	85.10 AV			1.00 V	0	76.25	8.85
7	#10400.00	58.01 PK	68.20	-10.19	1.00 V	0	40.01	18.00
8	15600.00	61.35 PK	74.00	-12.65	1.00 V	0	37.14	24.21
9	15600.00	48.60 AV	54.00	-5.40	1.00 V	0	24.39	24.21

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).
3. The emission levels of other frequencies were greater than 20dB margin.
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	5143.00	49.24 PK	74.00	-24.76	1.00 H	110	40.45	8.79
2	5143.00	38.50 AV	54.00	-15.50	1.00 H	110	29.71	8.79
3	5150.00	49.49 PK	74.00	-24.51	1.00 H	110	40.69	8.80
4	5150.00	38.92 AV	54.00	-15.08	1.00 H	110	30.12	8.80
5	#5156.00	51.38 PK	68.20	-16.82	1.00 H	110	42.57	8.81
6	#5156.00	39.20 AV	54.00	-14.80	1.00 H	110	30.39	8.81
7	*5240.00	100.02 PK			1.00 H	110	91.14	8.88
8	*5240.00	87.09 AV			1.00 H	110	78.21	8.88
9	5350.00	51.07 PK	74.00	-22.93	1.00 H	110	42.09	8.98
10	5350.00	39.95 AV	54.00	-14.05	1.00 H	110	30.97	8.98
11	#10480.00	58.03 PK	68.20	-10.17	1.00 H	0	39.66	18.37
12	15720.00	62.14 PK	74.00	-11.86	1.00 H	0	37.71	24.43
13	15720.00	49.04 AV	54.00	-4.96	1.00 H	0	24.61	24.43
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	5144.00	50.10 PK	74.00	-23.90	1.00 V	240	41.30	8.80
2	5144.00	39.07 AV	54.00	-14.93	1.00 V	240	30.27	8.80
3	5150.00	50.14 PK	74.00	-23.86	1.00 V	240	41.34	8.80
4	5150.00	39.30 AV	54.00	-14.70	1.00 V	240	30.50	8.80
5	*5240.00	98.01 PK			1.00 V	240	89.13	8.88
6	*5240.00	83.96 AV			1.00 V	240	75.08	8.88
7	5350.00	51.67 PK	74.00	-22.33	1.00 V	240	42.69	8.98
8	5350.00	39.75 AV	54.00	-14.25	1.00 V	240	30.77	8.98
9	5358.00	51.22 PK	74.00	-22.78	1.00 V	240	42.23	8.99
10	5358.00	39.02 AV	54.00	-14.98	1.00 V	240	30.03	8.99
11	#10480.00	57.33 PK	68.20	-10.87	1.00 V	0	38.96	18.37
12	15720.00	61.28 PK	74.00	-12.72	1.00 V	0	36.85	24.43
13	15720.00	48.11 AV	54.00	-5.89	1.00 V	0	23.68	24.43

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).
3. The emission levels of other frequencies were greater than 20dB margin.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

802.11n (40MHz)

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

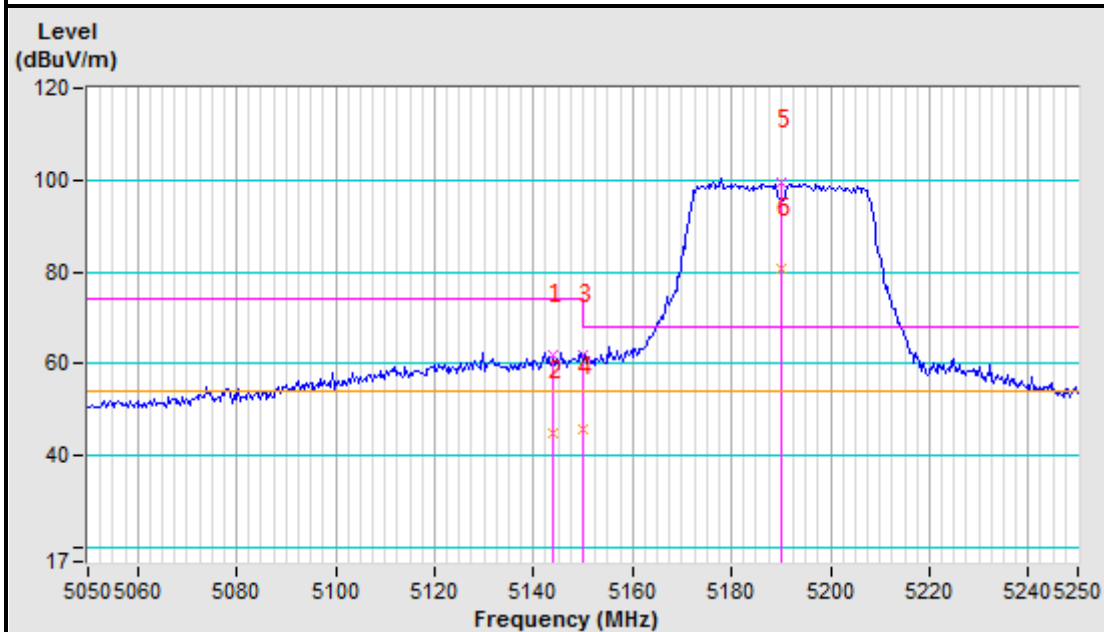
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5144.00	61.93 PK	74.00	-12.07	1.00 H	270	53.13	8.80
2	5144.00	45.11 AV	54.00	-8.89	1.00 H	270	36.31	8.80
3	5150.00	61.95 PK	74.00	-12.05	1.00 H	270	53.15	8.80
4	5150.00	45.96 AV	54.00	-8.04	1.00 H	270	37.16	8.80
5	*5190.00	99.63 PK			1.00 H	270	90.80	8.83
6	*5190.00	80.63 AV			1.00 H	270	71.80	8.83
7	#10380.00	59.35 PK	68.20	-8.85	1.00 H	0	41.44	17.91
8	15570.00	62.28 PK	74.00	-11.72	1.00 H	0	38.13	24.15
9	15570.00	48.70 AV	54.00	-5.30	1.00 H	0	24.55	24.15
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	5145.00	53.38 PK	74.00	-20.62	1.00 V	117	44.59	8.79
2	5145.00	42.06 AV	54.00	-11.94	1.00 V	117	33.27	8.79
3	5150.00	54.11 PK	74.00	-19.89	1.00 V	117	45.31	8.80
4	5150.00	42.36 AV	54.00	-11.64	1.00 V	117	33.56	8.80
5	*5190.00	93.05 PK			1.00 V	117	84.22	8.83
6	*5190.00	85.01 AV			1.00 V	117	76.18	8.83
7	#10380.00	58.72 PK	68.20	-9.48	1.00 V	0	40.81	17.91
8	15570.00	63.24 PK	74.00	-10.76	1.00 V	0	39.09	24.15
9	15570.00	49.69 AV	54.00	-4.31	1.00 V	0	25.54	24.15

REMARKS:

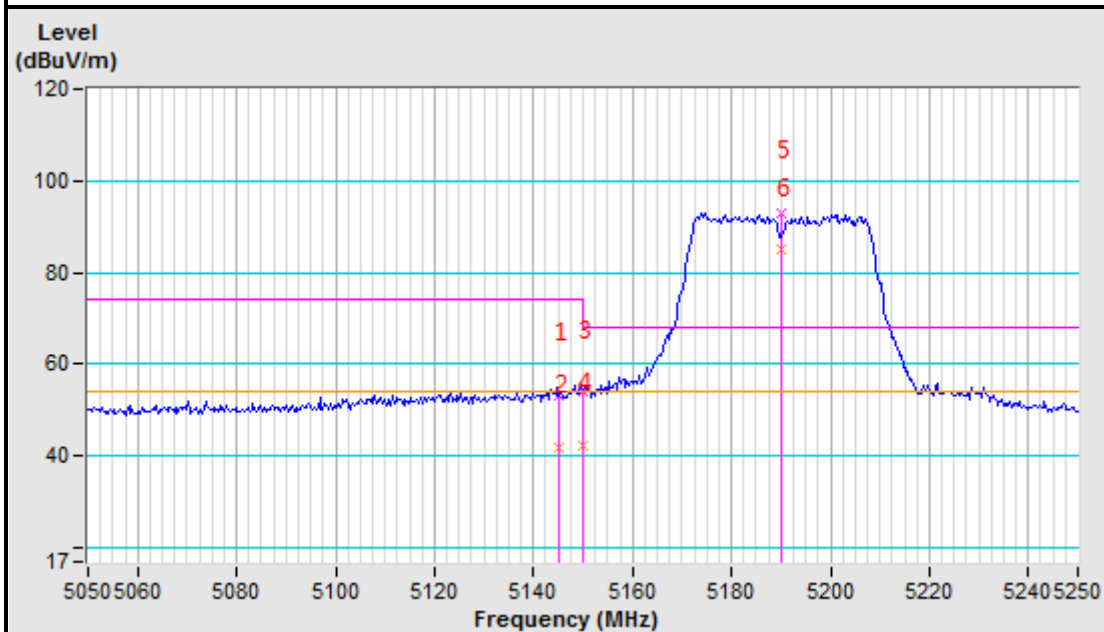
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The emission levels of other frequencies were greater than 20dB margin.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

Band edge Plot

5190MHz Horizontal



5190MHz Vertical



CHANNEL	TX Channel 46	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	5145.00	54.23 PK	74.00	-19.77	1.00 H	130	45.44	8.79
2	5145.00	43.60 AV	54.00	-10.40	1.00 H	130	34.81	8.79
3	5150.00	56.88 PK	74.00	-17.12	1.00 H	130	48.08	8.80
4	5150.00	44.30 AV	54.00	-9.70	1.00 H	130	35.50	8.80
5	*5230.00	100.94 PK			1.00 H	130	92.07	8.87
6	*5230.00	81.36 AV			1.00 H	130	72.49	8.87
7	#10460.00	58.72 PK	68.20	-9.48	1.00 H	0	40.44	18.28
8	15690.00	62.33 PK	74.00	-11.67	1.00 H	0	37.96	24.37
9	15690.00	48.70 AV	54.00	-5.30	1.00 H	0	24.33	24.37
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	5145.00	52.04 PK	74.00	-21.96	1.00 V	50	43.25	8.79
2	5145.00	41.20 AV	54.00	-12.80	1.00 V	50	32.41	8.79
3	5150.00	53.38 PK	74.00	-20.62	1.00 V	50	44.58	8.80
4	5150.00	41.39 AV	54.00	-12.61	1.00 V	50	32.59	8.80
5	*5230.00	95.15 PK			1.00 V	50	86.28	8.87
6	*5230.00	76.90 AV			1.00 V	50	68.03	8.87
7	#10460.00	48.86 PK	68.20	-19.34	1.00 V	0	30.58	18.28
8	15690.00	62.28 PK	74.00	-11.72	1.00 V	0	37.91	24.37
9	15690.00	49.70 AV	54.00	-4.30	1.00 V	0	25.33	24.37

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).
3. The emission levels of other frequencies were greater than 20dB margin.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

802.11ac (80MHz)

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

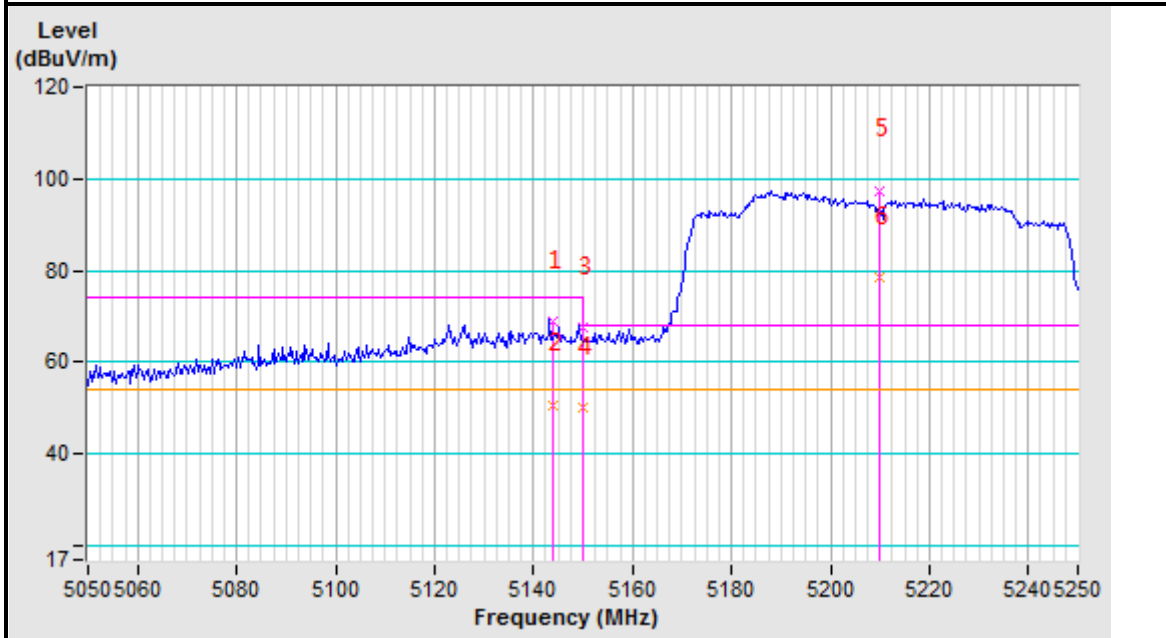
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5144.00	68.73 PK	74.00	-5.27	1.00 H	270	59.93	8.80
2	5144.00	50.69 AV	54.00	-3.31	1.00 H	270	41.89	8.80
3	5150.00	67.41 PK	74.00	-6.59	1.00 H	270	58.61	8.80
4	5150.00	50.06 AV	54.00	-3.94	1.00 H	270	41.26	8.80
5	*5210.00	97.40 PK			1.00 H	270	88.55	8.85
6	*5210.00	78.34 AV			1.00 H	270	69.49	8.85
7	#10420.00	47.35 PK	68.20	-20.85	1.00 H	0	29.26	18.09
8	15630.00	62.10 PK	74.00	-11.90	1.00 H	0	37.84	24.26
9	15630.00	48.88 AV	54.00	-5.12	1.00 H	0	24.62	24.26
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	5122.00	61.53 PK	74.00	-12.47	1.00 V	190	52.75	8.78
2	5122.00	41.80 AV	54.00	-12.20	1.00 V	190	33.02	8.78
3	5150.00	59.19 PK	74.00	-14.81	1.00 V	190	50.39	8.80
4	5150.00	44.90 AV	54.00	-9.10	1.00 V	190	36.10	8.80
5	*5210.00	90.17 PK			1.00 V	190	81.32	8.85
6	*5210.00	70.58 AV			1.00 V	190	61.73	8.85
7	#10420.00	57.92 PK	68.20	-10.28	1.00 V	0	39.83	18.09
8	15630.00	61.83 PK	74.00	-12.17	1.00 V	0	37.57	24.26
9	15630.00	48.20 AV	54.00	-5.80	1.00 V	0	23.94	24.26

REMARKS:

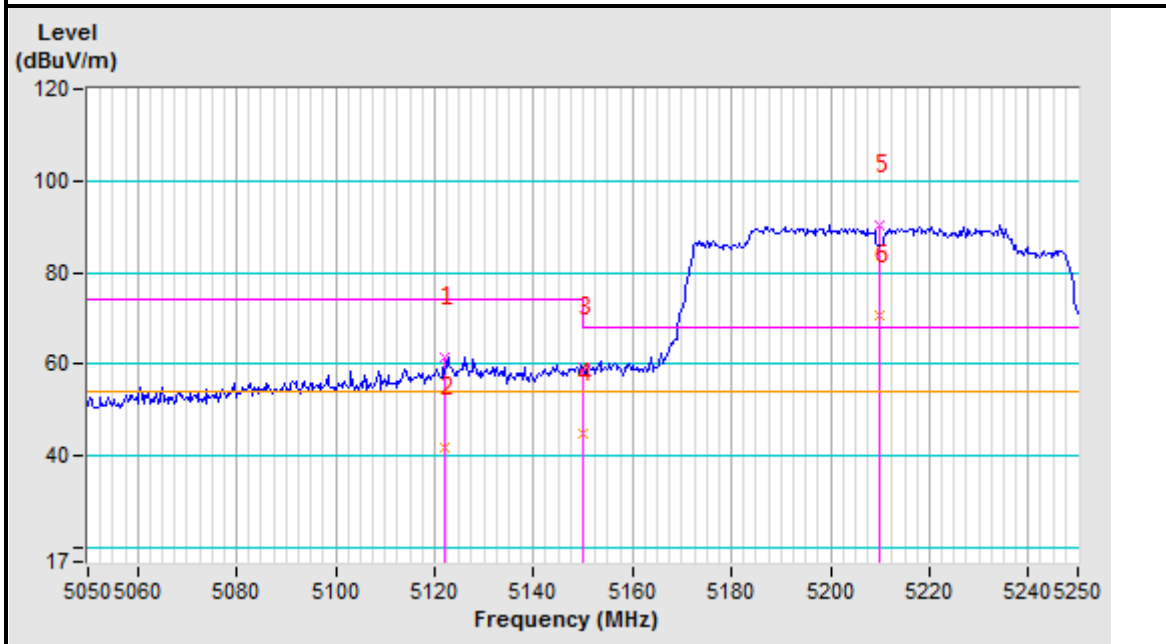
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The emission levels of other frequencies were greater than 20dB margin.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

Band edge Plot

5210MHz Horizontal



5210MHz Vertical





**BUREAU
VERITAS**

Test Report No.: RF2008WDG0053-4

Band 2 (5250-5350MHz): ABOVE 1GHz DATA 802.11a

CHANNEL	TX Channel 52	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	5145.00	49.69 PK	74.00	-24.31	1.00 H	25	40.90	8.79
2	5145.00	37.59 AV	54.00	-16.41	1.00 H	25	28.80	8.79
3	5150.00	48.55 PK	74.00	-25.45	1.00 H	25	39.75	8.80
4	5150.00	37.83 AV	54.00	-16.17	1.00 H	25	29.03	8.80
5	*5260.00	102.25 PK			1.00 H	25	93.35	8.90
6	*5260.00	88.45 AV			1.00 H	25	79.55	8.90
7	5350.00	51.67 PK	74.00	-22.33	1.00 H	25	42.69	8.98
8	5350.00	39.20 AV	54.00	-14.80	1.00 H	25	30.22	8.98
9	5356.00	51.50 PK	74.00	-22.50	1.00 H	25	42.52	8.98
10	5356.00	38.78 AV	54.00	-15.22	1.00 H	25	29.80	8.98
11	#10520.00	57.00 PK	68.20	-11.20	1.00 H	0	38.48	18.52
12	15780.00	62.27 PK	74.00	-11.73	1.00 H	0	37.74	24.53
13	15780.00	48.19 AV	54.00	-5.81	1.00 H	0	23.66	24.53
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	5144.00	49.38 PK	74.00	-24.62	1.00 V	220	40.58	8.80
2	5144.00	38.04 AV	54.00	-15.96	1.00 V	220	29.24	8.80
3	5150.00	49.24 PK	74.00	-24.76	1.00 V	220	40.44	8.80
4	5150.00	38.20 AV	54.00	-15.80	1.00 V	220	29.40	8.80
5	*5260.00	98.20 PK			1.00 V	220	89.30	8.90
6	*5260.00	84.54 AV			1.00 V	220	75.64	8.90
7	5350.00	51.34 PK	74.00	-22.66	1.00 V	220	42.36	8.98
8	5350.00	38.90 AV	54.00	-15.10	1.00 V	220	29.92	8.98
9	5355.00	51.02 PK	74.00	-22.98	1.00 V	220	42.03	8.99
10	5355.00	38.70 AV	54.00	-15.30	1.00 V	220	29.71	8.99

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).
3. The emission levels of other frequencies were greater than 20dB margin.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

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CHANNEL	TX Channel 60	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	*5300.00	103.13 PK			1.00 H	24	94.20	8.93
2	*5300.00	89.82 AV			1.00 H	24	80.89	8.93
3	5350.00	52.37 PK	74.00	-21.63	1.00 H	24	43.39	8.98
4	5350.00	41.69 AV	54.00	-12.31	1.00 H	24	32.71	8.98
5	5353.00	51.70 PK	74.00	-22.30	1.00 H	24	42.71	8.99
6	5353.00	40.50 AV	54.00	-13.50	1.00 H	24	31.51	8.99
7	10600.00	58.24 PK	74.00	-15.76	1.00 H	253	39.53	18.71
8	10600.00	44.70 AV	54.00	-9.30	1.00 H	253	25.99	18.71
9	15900.00	63.03 PK	74.00	-10.97	1.00 H	0	38.28	24.75
10	15900.00	49.60 AV	54.00	-4.40	1.00 H	0	24.85	24.75
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	*5300.00	101.41 PK			1.00 V	54	92.48	8.93
2	*5300.00	87.26 AV			1.00 V	54	78.33	8.93
3	5350.00	51.29 PK	74.00	-22.71	1.00 V	54	42.31	8.98
4	5350.00	39.92 AV	54.00	-14.08	1.00 V	54	30.94	8.98
5	5358.00	50.24 PK	74.00	-23.76	1.00 V	54	41.25	8.99
6	5358.00	38.95 AV	54.00	-15.05	1.00 V	54	29.96	8.99
7	10600.00	57.35 PK	74.00	-16.65	1.00 V	0	38.64	18.71
8	10600.00	44.60 AV	54.00	-9.40	1.00 V	0	25.89	18.71
9	15900.00	62.24 PK	74.00	-11.76	1.00 V	0	37.49	24.75
10	15900.00	49.32 AV	54.00	-4.68	1.00 V	0	24.57	24.75

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).
3. The emission levels of other frequencies were greater than 20dB margin.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.

CHANNEL	TX Channel 64	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

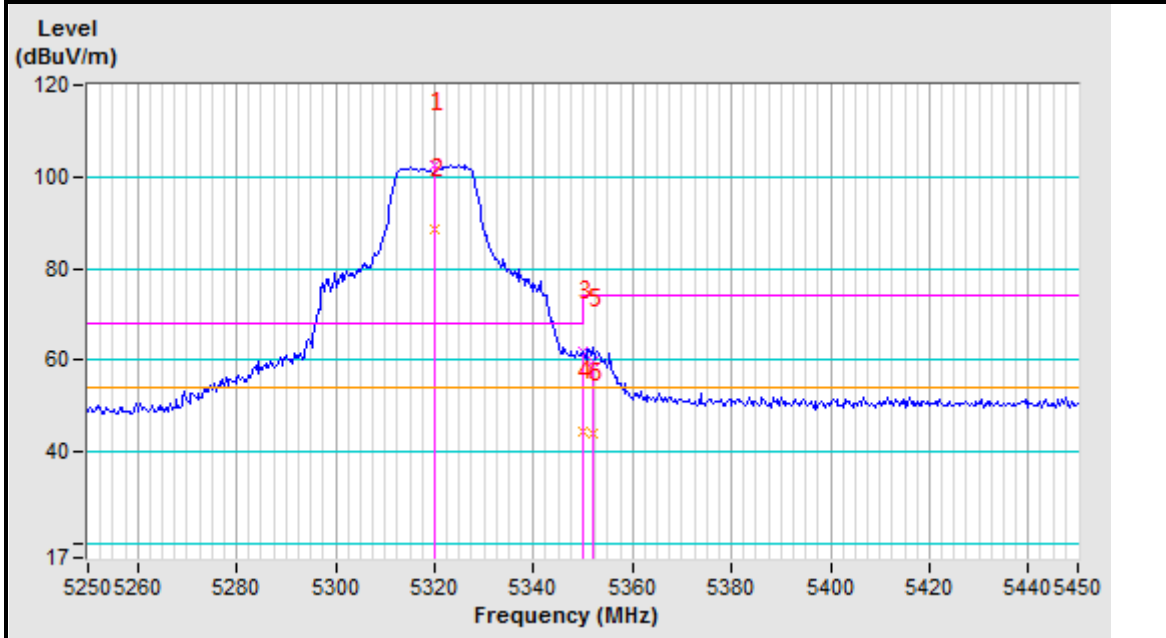
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5320.00	102.70 PK			1.00 H	225	93.74	8.96
2	*5320.00	88.56 AV			1.00 H	225	79.60	8.96
3	5350.00	61.87 PK	74.00	-12.13	1.00 H	225	52.89	8.98
4	5350.00	44.46 AV	54.00	-9.54	1.00 H	225	35.48	8.98
5	5352.00	59.81 PK	74.00	-14.19	1.00 H	225	50.83	8.98
6	5352.00	43.90 AV	54.00	-10.10	1.00 H	225	34.92	8.98
7	10640.00	58.34 PK	74.00	-15.66	1.00 H	0	39.53	18.81
8	10640.00	46.14 AV	54.00	-7.86	1.00 H	0	27.33	18.81
9	15960.00	62.27 PK	74.00	-11.73	1.00 H	0	37.40	24.87
10	15960.00	49.03 AV	54.00	-4.97	1.00 H	0	24.16	24.87
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	*5320.00	101.11 PK			1.00 V	51	92.15	8.96
2	*5320.00	86.87 AV			1.00 V	51	77.91	8.96
3	5350.00	61.85 PK	74.00	-12.15	1.00 V	51	52.87	8.98
4	5350.00	44.60 AV	54.00	-9.40	1.00 V	51	35.62	8.98
5	5356.00	55.27 PK	74.00	-18.73	1.00 V	51	46.29	8.98
6	5356.00	43.10 AV	54.00	-10.90	1.00 V	51	34.12	8.98
7	10640.00	57.24 PK	74.00	-16.76	1.00 V	0	38.43	18.81
8	10640.00	45.70 AV	54.00	-8.30	1.00 V	0	26.89	18.81
9	15780.00	62.24 PK	74.00	-11.76	1.00 V	0	37.71	24.53
10	15780.00	48.81 AV	54.00	-5.19	1.00 V	0	24.28	24.53

REMARKS:

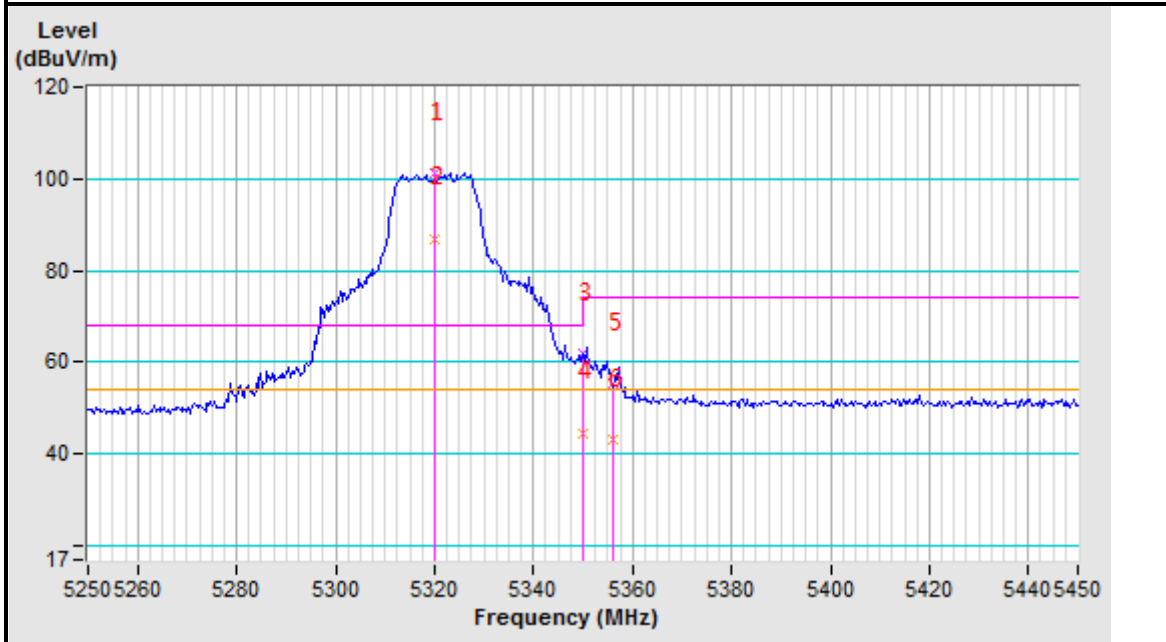
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The emission levels of other frequencies were greater than 20dB margin.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.

Band edge Plot

5320MHz Horizontal



5320MHz Vertical



802.11n (20MHz)

CHANNEL	TX Channel 52	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	5147.00	50.10 PK	74.00	-23.90	1.00 H	230	41.31	8.79
2	5147.00	39.00 AV	54.00	-15.00	1.00 H	230	30.21	8.79
3	5150.00	50.09 PK	74.00	-23.91	1.00 H	230	41.29	8.80
4	5150.00	39.10 AV	54.00	-14.90	1.00 H	230	30.30	8.80
5	*5260.00	100.28 PK			1.00 H	230	91.38	8.90
6	*5260.00	86.00 AV			1.00 H	230	77.10	8.90
7	5350.00	50.78 PK	74.00	-23.22	1.00 H	230	41.80	8.98
8	5350.00	39.12 AV	54.00	-14.88	1.00 H	230	30.14	8.98
9	5353.00	50.26 PK	74.00	-23.74	1.00 H	230	41.27	8.99
10	5353.00	38.90 AV	54.00	-15.10	1.00 H	230	29.91	8.99
11	#10520.00	57.96 PK	68.20	-10.24	1.00 H	0	39.44	18.52
12	15780.00	62.38 PK	74.00	-11.62	1.00 H	0	37.85	24.53
13	15780.00	49.96 AV	54.00	-4.04	1.00 H	0	25.43	24.53
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	5146.00	49.69 PK	74.00	-24.31	1.00 V	245	40.90	8.79
2	5146.00	37.89 AV	54.00	-16.11	1.00 V	245	29.10	8.79
3	5150.00	50.34 PK	74.00	-23.66	1.00 V	245	41.54	8.80
4	5150.00	38.79 AV	54.00	-15.21	1.00 V	245	29.99	8.80
5	*5260.00	98.98 PK			1.00 V	245	90.08	8.90
6	*5260.00	85.02 AV			1.00 V	245	76.12	8.90
7	5350.00	51.23 PK	74.00	-22.77	1.00 V	245	42.25	8.98
8	5350.00	39.60 AV	54.00	-14.40	1.00 V	245	30.62	8.98
9	5358.00	50.34 PK	74.00	-23.66	1.00 V	245	41.35	8.99
10	5358.00	38.79 AV	54.00	-15.21	1.00 V	245	29.80	8.99
11	#10520.00	57.28 PK	68.20	-10.92	1.00 V	0	38.76	18.52
12	15780.00	62.24 PK	74.00	-11.76	1.00 V	0	37.71	24.53
13	15780.00	48.23 AV	54.00	-5.77	1.00 V	0	23.70	24.53

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).
3. The emission levels of other frequencies were greater than 20dB margin.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 60	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	*5300.00	102.68 PK			1.00 H	132	93.75	8.93
2	*5300.00	88.14 AV			1.00 H	132	79.21	8.93
3	5350.00	52.54 PK	74.00	-21.46	1.00 H	132	43.56	8.98
4	5350.00	41.65 AV	54.00	-12.35	1.00 H	132	32.67	8.98
5	5355.00	51.46 PK	74.00	-22.54	1.00 H	132	42.47	8.99
6	5355.00	50.60 AV	54.00	-3.40	1.00 H	132	41.61	8.99
7	10600.00	58.33 PK	74.00	-15.67	1.00 H	0	39.62	18.71
8	10600.00	45.62 AV	54.00	-8.38	1.00 H	0	26.91	18.71
9	15900.00	63.04 PK	74.00	-10.96	1.00 H	0	38.29	24.75
10	15900.00	49.00 AV	54.00	-5.00	1.00 H	0	24.25	24.75
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	*5300.00	101.05 PK			1.00 V	360	92.12	8.93
2	*5300.00	86.10 AV			1.00 V	360	77.17	8.93
3	5350.00	52.36 PK	74.00	-21.64	1.00 V	360	43.38	8.98
4	5350.00	42.20 AV	54.00	-11.80	1.00 V	360	33.22	8.98
5	5358.00	52.34 PK	74.00	-21.66	1.00 V	360	43.35	8.99
6	5358.00	41.10 AV	54.00	-12.90	1.00 V	360	32.11	8.99
7	10600.00	58.06 PK	74.00	-15.94	1.00 V	0	39.35	18.71
8	10600.00	45.71 AV	54.00	-8.29	1.00 V	0	27.00	18.71
9	15900.00	63.34 PK	74.00	-10.66	1.00 V	0	38.59	24.75
10	15900.00	50.10 AV	54.00	-3.90	1.00 V	0	25.35	24.75

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).
3. The emission levels of other frequencies were greater than 20dB margin.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.

CHANNEL	TX Channel 64	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

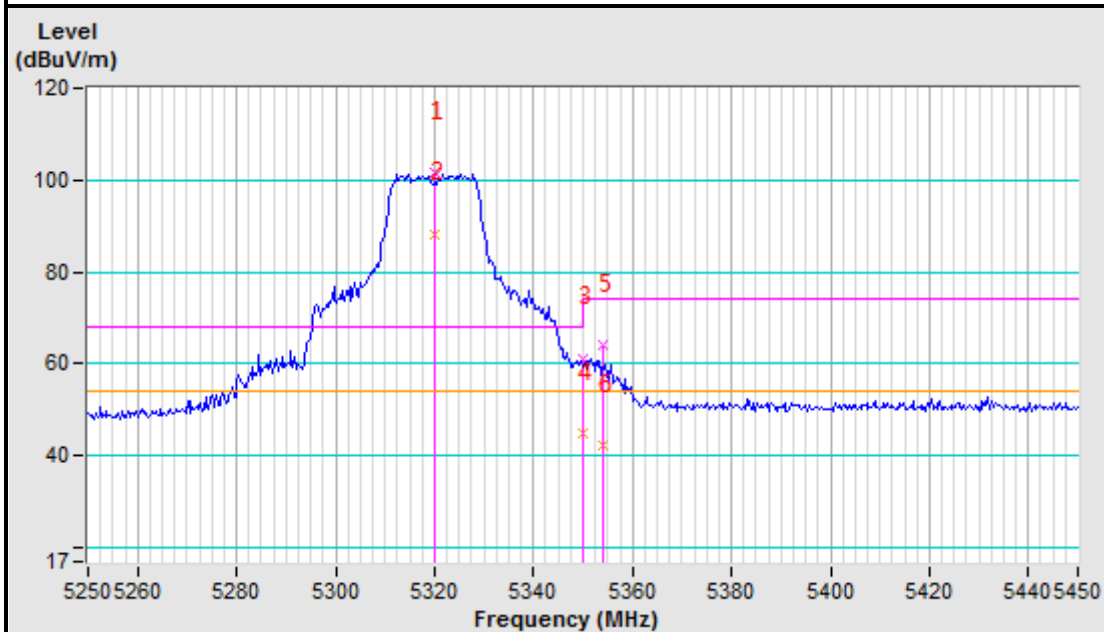
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5320.00	101.53 PK			1.00 H	275	92.57	8.96
2	*5320.00	88.35 AV			1.00 H	275	79.39	8.96
3	5350.00	61.21 PK	74.00	-12.79	1.00 H	275	52.23	8.98
4	5350.00	44.85 AV	54.00	-9.15	1.00 H	275	35.87	8.98
5	5354.00	64.00 PK	74.00	-10.00	1.00 H	275	55.01	8.99
6	5354.00	42.30 AV	54.00	-11.70	1.00 H	275	33.31	8.99
7	10640.00	58.34 PK	74.00	-15.66	1.00 H	0	39.53	18.81
8	10640.00	46.20 AV	54.00	-7.80	1.00 H	0	27.39	18.81
9	15960.00	63.36 PK	74.00	-10.64	1.00 H	0	38.49	24.87
10	15960.00	50.23 AV	54.00	-3.77	1.00 H	0	25.36	24.87
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	*5320.00	100.48 PK			1.00 V	180	91.52	8.96
2	*5320.00	87.50 AV			1.00 V	180	78.54	8.96
3	5350.00	59.76 PK	74.00	-14.24	1.00 V	180	50.78	8.98
4	5350.00	41.60 AV	54.00	-12.40	1.00 V	180	32.62	8.98
5	5354.00	64.30 PK	74.00	-9.70	1.00 V	180	55.31	8.99
6	5354.00	40.80 AV	54.00	-13.20	1.00 V	180	31.81	8.99
7	10640.00	57.88 PK	74.00	-16.12	1.00 V	0	39.07	18.81
8	10640.00	46.10 AV	54.00	-7.90	1.00 V	0	27.29	18.81
9	15960.00	61.29 PK	74.00	-12.71	1.00 V	0	36.42	24.87
10	15960.00	50.97 AV	54.00	-3.03	1.00 V	0	26.10	24.87

REMARKS:

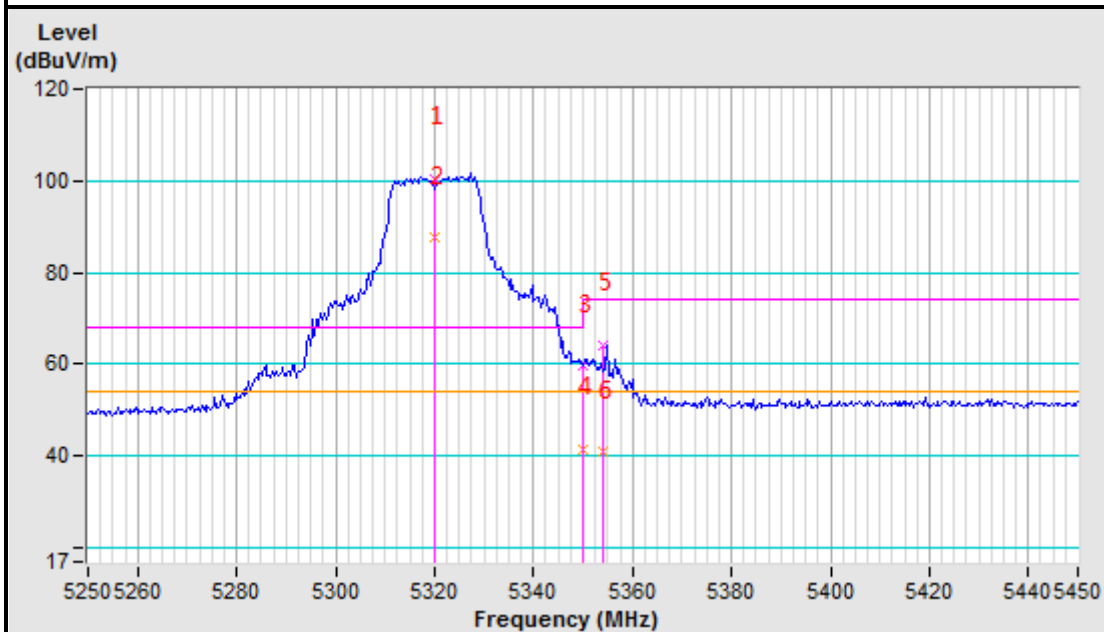
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The emission levels of other frequencies were greater than 20dB margin.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.

Band edge Plot

5320MHz Horizontal



5320MHz Vertical



802.11n (40MHz)

CHANNEL	TX Channel 54	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	*5270.00	99.70 PK			1.00 H	54	90.79	8.91
2	*5270.00	80.42 AV			1.00 H	54	71.51	8.91
3	5350.00	51.43 PK	74.00	-22.57	1.00 H	54	42.45	8.98
4	5350.00	39.50 AV	54.00	-14.50	1.00 H	54	30.52	8.98
5	5352.00	52.93 PK	74.00	-21.07	1.00 H	54	43.95	8.98
6	5352.00	39.25 AV	54.00	-14.75	1.00 H	54	30.27	8.98
7	#10540.00	58.12 PK	68.20	-10.08	1.00 H	0	39.55	18.57
8	15810.00	62.05 PK	74.00	-11.95	1.00 H	0	37.46	24.59
9	15810.00	50.52 AV	54.00	-3.48	1.00 H	0	25.93	24.59
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	*5270.00	97.25 PK			1.00 V	260	88.34	8.91
2	*5270.00	79.24 AV			1.00 V	260	70.33	8.91
3	5350.00	51.24 PK	74.00	-22.76	1.00 V	260	42.26	8.98
4	5350.00	39.20 AV	54.00	-14.80	1.00 V	260	30.22	8.98
5	5356.00	52.01 PK	74.00	-21.99	1.00 V	260	43.03	8.98
6	5356.00	39.00 AV	54.00	-15.00	1.00 V	260	30.02	8.98
7	#10540.00	58.13 PK	68.20	-10.07	1.00 V	0	39.56	18.57
8	15810.00	63.24 PK	74.00	-10.76	1.00 V	0	38.65	24.59
9	15810.00	50.17 AV	54.00	-3.83	1.00 V	0	25.58	24.59

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).
3. The emission levels of other frequencies were greater than 20dB margin.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 62	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

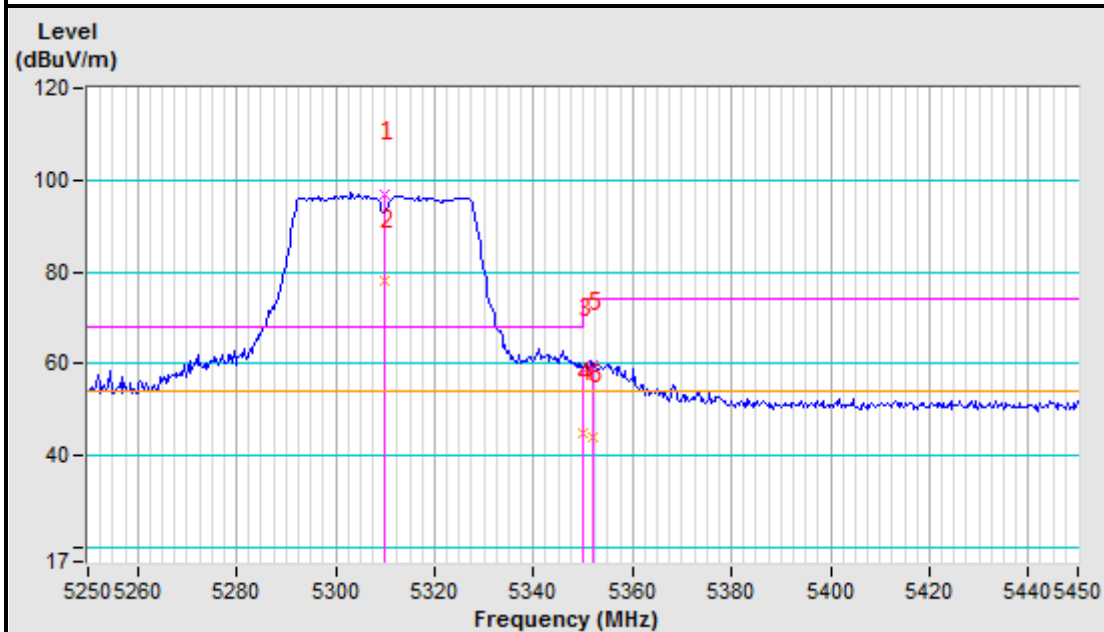
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5310.00	96.89 PK			1.00 H	277	87.94	8.95
2	*5310.00	78.12 AV			1.00 H	277	69.17	8.95
3	5350.00	58.90 PK	74.00	-15.10	1.00 H	277	49.92	8.98
4	5350.00	44.89 AV	54.00	-9.11	1.00 H	277	35.91	8.98
5	5352.00	59.82 PK	74.00	-14.18	1.00 H	277	50.84	8.98
6	5352.00	44.21 AV	54.00	-9.79	1.00 H	277	35.23	8.98
7	10620.00	58.24 PK	74.00	-15.76	1.00 H	0	39.48	18.76
8	10620.00	46.01 AV	54.00	-7.99	1.00 H	0	27.25	18.76
9	15930.00	63.25 PK	74.00	-10.75	1.00 H	0	38.44	24.81
10	15930.00	50.70 AV	54.00	-3.30	1.00 H	0	25.89	24.81
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	*5310.00	95.60 PK			1.00 V	30	86.65	8.95
2	*5310.00	80.01 AV			1.00 V	30	71.06	8.95
3	5350.00	61.96 PK	74.00	-12.04	1.00 V	30	52.98	8.98
4	5350.00	46.25 AV	54.00	-7.75	1.00 V	30	37.27	8.98
5	5354.00	60.99 PK	74.00	-13.01	1.00 V	30	52.00	8.99
6	5354.00	43.30 AV	54.00	-10.70	1.00 V	30	34.31	8.99
7	10620.00	57.95 PK	74.00	-16.05	1.00 V	0	39.19	18.76
8	10620.00	45.50 AV	54.00	-8.50	1.00 V	0	26.74	18.76
9	15930.00	62.24 PK	74.00	-11.76	1.00 V	0	37.43	24.81
10	15930.00	49.90 AV	54.00	-4.10	1.00 V	0	25.09	24.81

REMARKS:

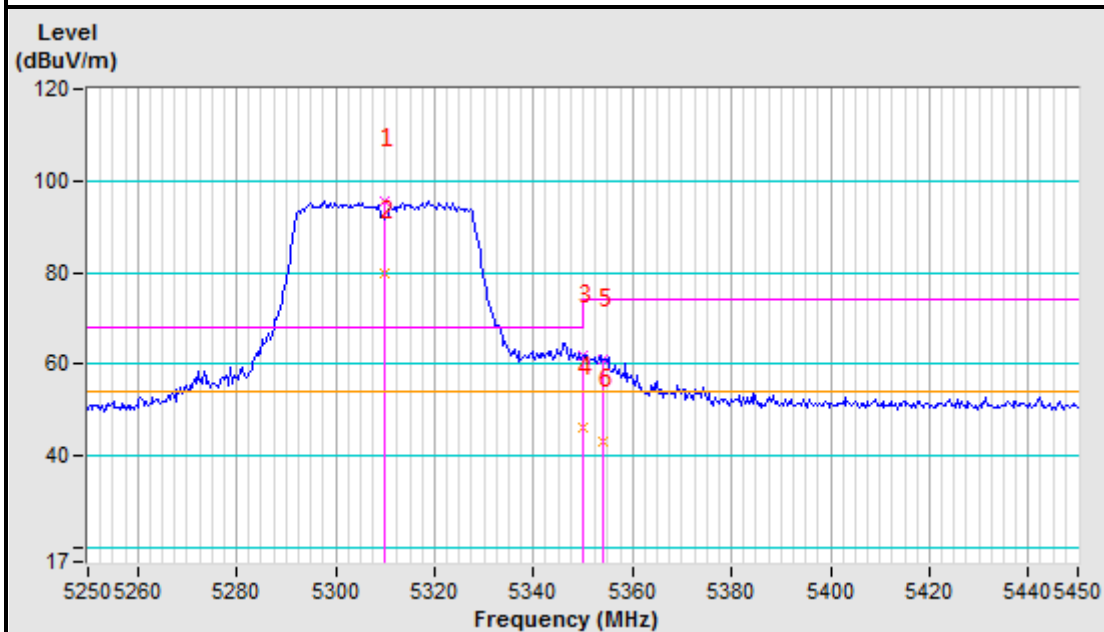
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The emission levels of other frequencies were greater than 20dB margin.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.

Band edge Plot

5310MHz Horizontal



5310MHz Vertical



802.11ac 80MHz

CHANNEL	TX Channel 58	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

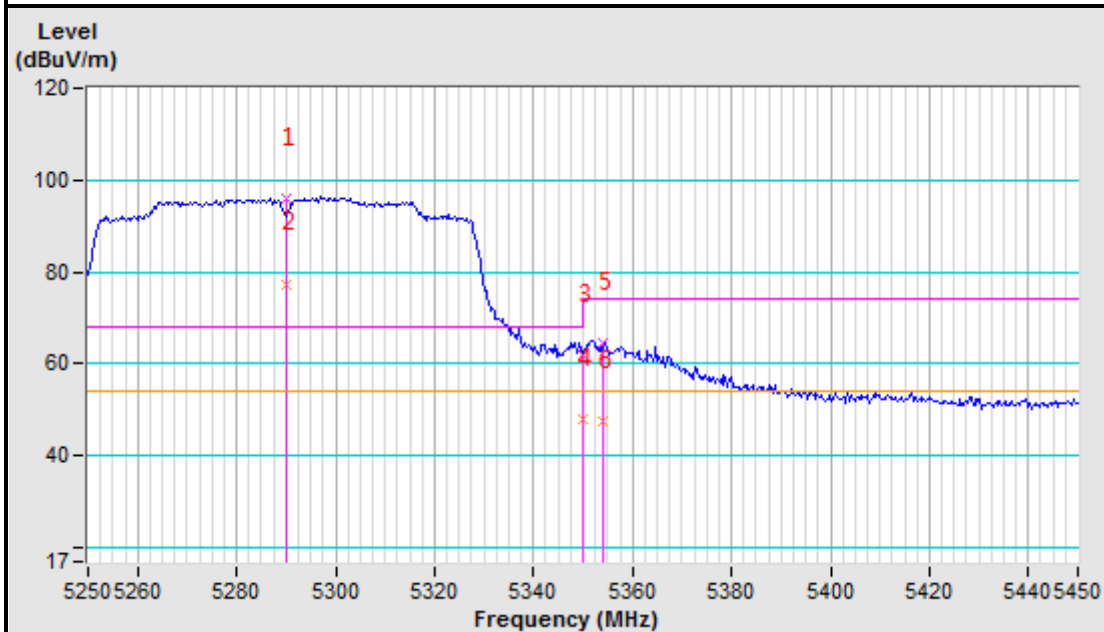
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5290.00	95.92 PK			1.00 H	210	86.99	8.93
2	*5290.00	77.38 AV			1.00 H	210	68.45	8.93
3	5350.00	61.82 PK	74.00	-12.18	1.00 H	210	52.84	8.98
4	5350.00	47.80 AV	54.00	-6.20	1.00 H	210	38.82	8.98
5	5354.00	64.43 PK	74.00	-9.57	1.00 H	210	55.44	8.99
6	5354.00	47.44 AV	54.00	-6.56	1.00 H	210	38.45	8.99
7	#10580.00	57.50 PK	68.20	-10.70	1.00 H	0	38.84	18.66
8	15870.00	63.03 PK	74.00	-10.97	1.00 H	0	38.33	24.70
9	15870.00	49.79 AV	54.00	-4.21	1.00 H	0	25.09	24.70
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	*5290.00	94.14 PK			1.00 V	0	85.21	8.93
2	*5290.00	76.22 AV			1.00 V	0	67.29	8.93
3	5350.00	60.38 PK	74.00	-13.62	1.00 V	0	51.40	8.98
4	5350.00	44.69 AV	54.00	-9.31	1.00 V	0	35.71	8.98
5	5356.00	62.44 PK	74.00	-11.56	1.00 V	0	53.46	8.98
6	5356.00	44.00 AV	54.00	-10.00	1.00 V	0	35.02	8.98
7	#10580.00	57.96 PK	68.20	-10.24	1.00 V	0	39.30	18.66
8	15870.00	62.34 PK	74.00	-11.66	1.00 V	0	37.64	24.70
9	15870.00	49.82 AV	54.00	-4.18	1.00 V	0	25.12	24.70

REMARKS:

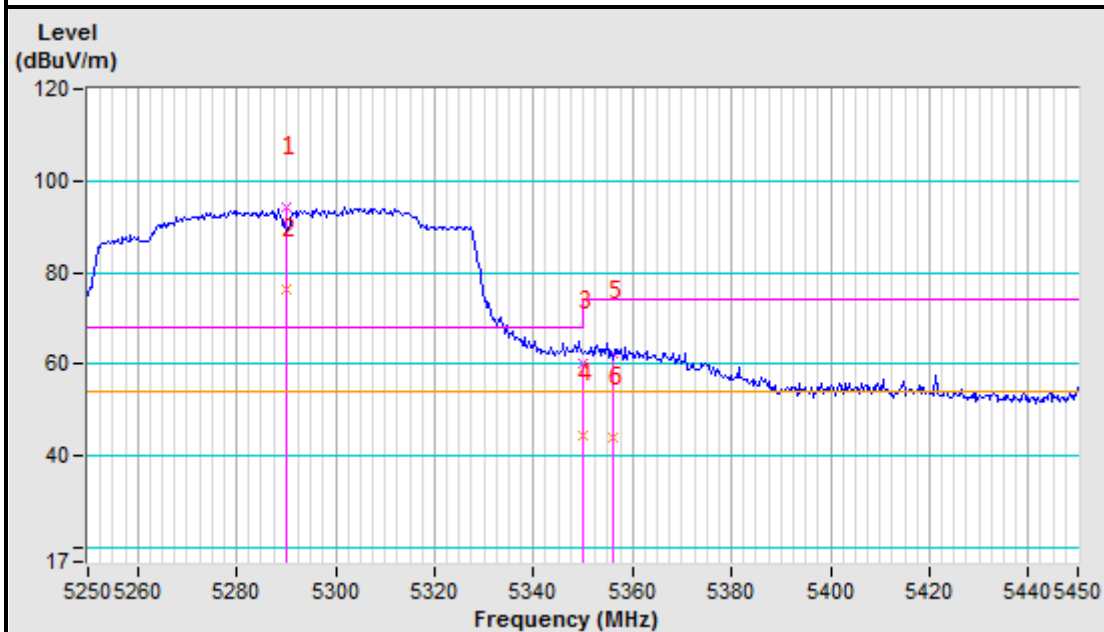
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The emission levels of other frequencies were greater than 20dB margin.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

Band edge Plot

5290MHz Horizontal



5290MHz Vertical



Band 3 (5470-5725MHz): ABOVE 1GHz DATA 802.11a

CHANNEL	TX Channel 100	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

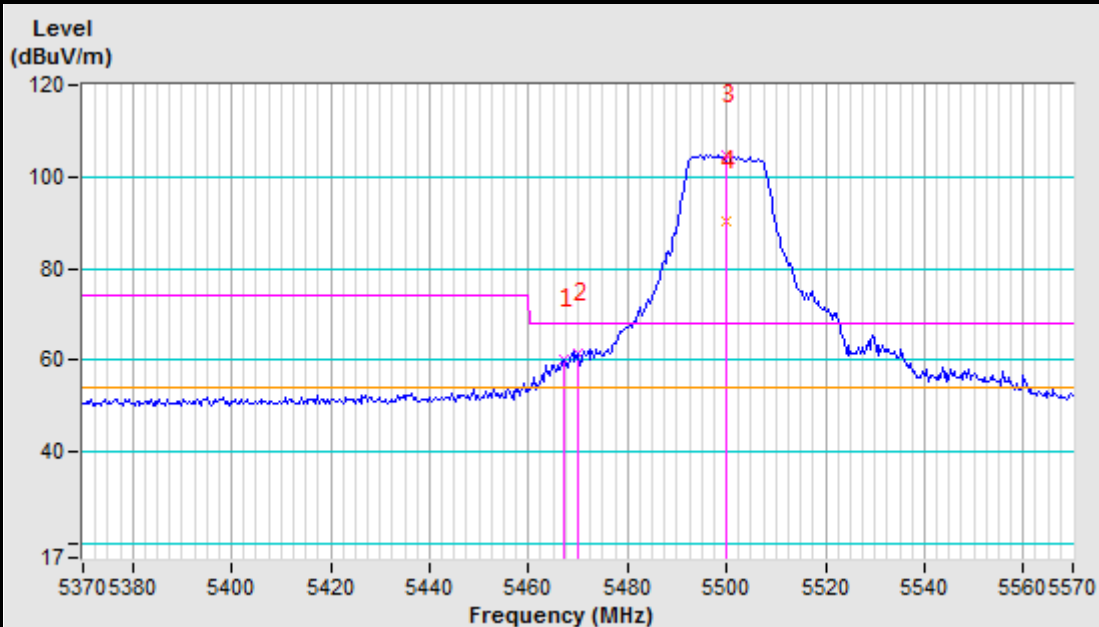
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5467.12	60.16 PK	68.20	-8.04	1.00 H	0	51.07	9.09
2	#5470.00	61.49 PK	68.20	-6.71	1.00 H	0	52.40	9.09
3	*5500.00	104.73 PK			1.00 H	0	95.61	9.12
4	*5500.00	90.24 AV			1.00 H	0	81.12	9.12
5	11000.00	59.34 PK	74.00	-14.66	1.00 H	0	39.66	19.68
6	11000.00	46.20 AV	54.00	-7.80	1.00 H	0	26.52	19.68
7	#16500.00	62.28 PK	68.20	-5.92	1.00 H	0	36.85	25.43
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	#5466.79	59.10 PK	68.20	-9.10	1.24 V	0	50.01	9.09
2	#5470.00	61.38 PK	68.20	-6.82	1.24 V	0	52.29	9.09
3	*5500.00	103.24 PK			1.24 V	0	94.12	9.12
4	*5500.00	89.60 AV			1.24 V	0	80.48	9.12
5	11000.00	57.34 PK	74.00	-16.66	1.00 V	0	37.66	19.68
6	11000.00	43.23 AV	54.00	-10.77	1.00 V	0	23.55	19.68
7	#16500.00	62.02 PK	68.20	-6.18	1.00 V	0	36.59	25.43

REMARKS:

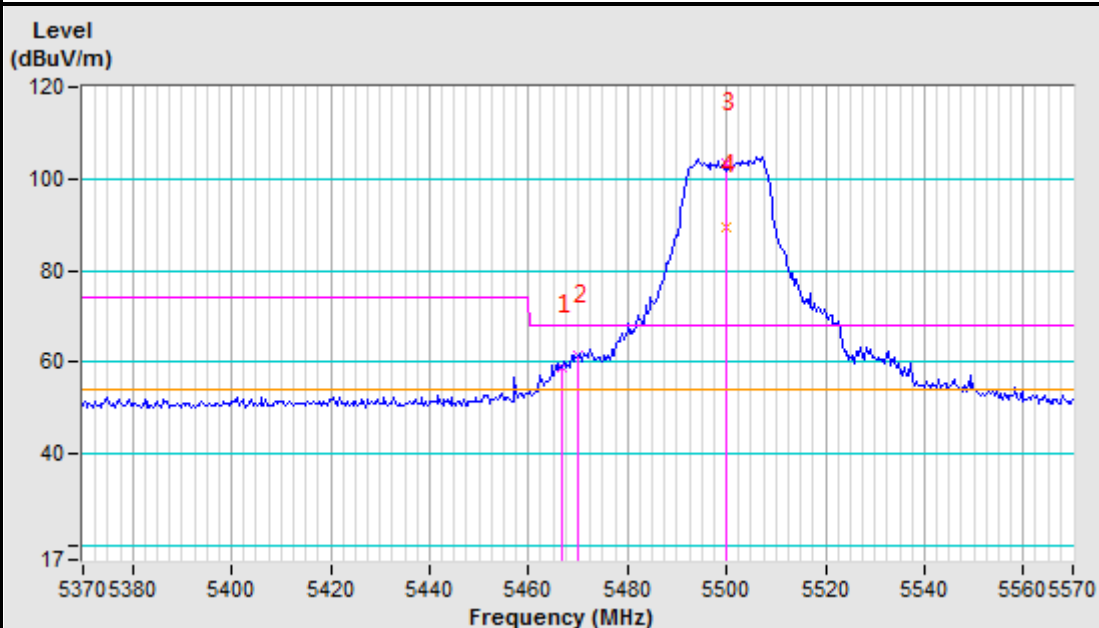
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The emission levels of other frequencies were greater than 20dB margin.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

Band edge Plot

5500MHz Horizontal



5500MHz Vertical



CHANNEL	TX Channel 116	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	#5470.00	51.60 PK	68.20	-16.60	1.00 H	30	42.51	9.09
2	*5580.00	104.96 PK			1.00 H	30	95.54	9.42
3	*5580.00	91.20 AV			1.00 H	30	81.78	9.42
4	11160.00	58.34 PK	74.00	-15.66	1.00 H	0	38.39	19.95
5	11160.00	45.23 AV	54.00	-8.77	1.00 H	0	25.28	19.95
6	#16740.00	62.06 PK	68.20	-6.14	1.00 H	0	35.86	26.20
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	#5470.00	50.63 PK	68.20	-17.57	1.00 V	40	41.54	9.09
2	*5580.00	102.24 PK			1.00 V	40	92.82	9.42
3	*5580.00	88.79 AV			1.00 V	40	79.37	9.42
4	11160.00	57.38 PK	74.00	-16.62	1.00 V	0	37.43	19.95
5	11160.00	44.90 AV	54.00	-9.10	1.00 V	0	24.95	19.95
6	#16740.00	61.38 PK	68.20	-6.82	1.00 V	0	35.18	26.20

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).
3. The emission levels of other frequencies were greater than 20dB margin.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 140	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

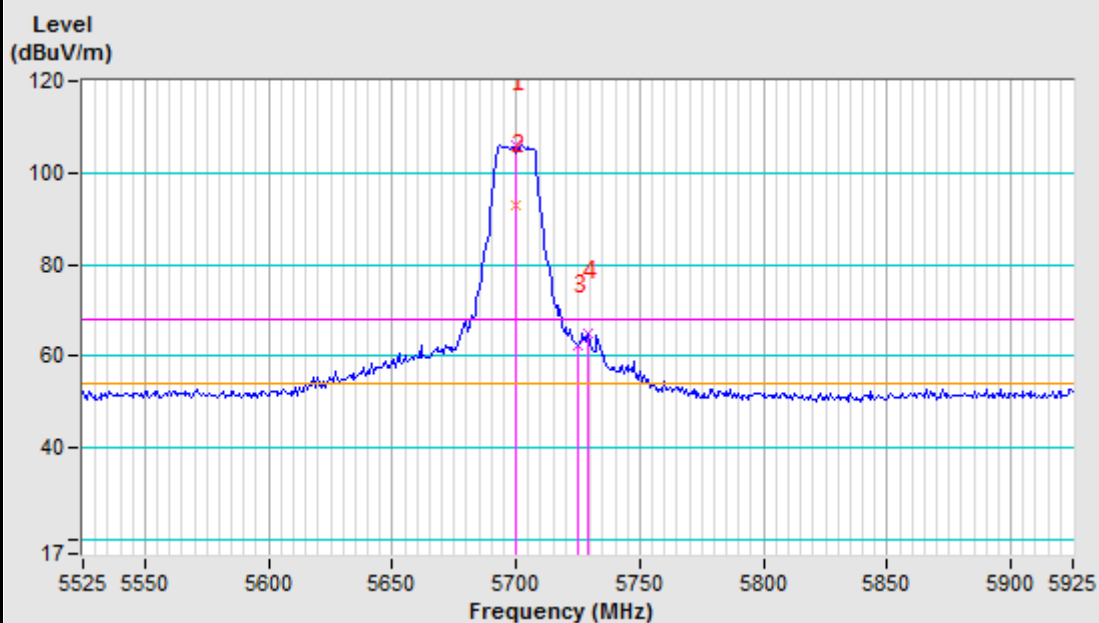
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5700.00	106.08 PK			2.00 H	0	96.21	9.87
2	*5700.00	92.85 AV			2.00 H	0	82.98	9.87
3	#5725.00	62.37 PK	68.20	-5.83	2.00 H	0	52.41	9.96
4	#5728.85	65.12 PK	68.20	-3.08	2.00 H	0	55.15	9.97
5	11160.00	58.34 PK	74.00	-15.66	1.00 H	0	38.39	19.95
6	11160.00	46.10 AV	54.00	-7.90	1.00 H	0	26.15	19.95
7	#17100.00	62.34 PK	68.20	-5.86	1.00 H	0	35.20	27.14
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	*5700.00	102.34 PK			1.32 V	0	92.47	9.87
2	*5700.00	88.32 AV			1.32 V	0	78.45	9.87
3	#5725.00	60.91 PK	68.20	-7.29	1.32 V	0	50.95	9.96
4	#5742.31	59.01 PK	68.20	-9.19	1.32 V	0	48.98	10.03
5	11400.00	58.34 PK	74.00	-15.66	1.00 V	0	37.99	20.35
6	11400.00	46.00 AV	54.00	-8.00	1.00 V	0	25.65	20.35
7	#17100.00	63.38 PK	68.20	-4.82	1.00 V	0	36.24	27.14

REMARKS:

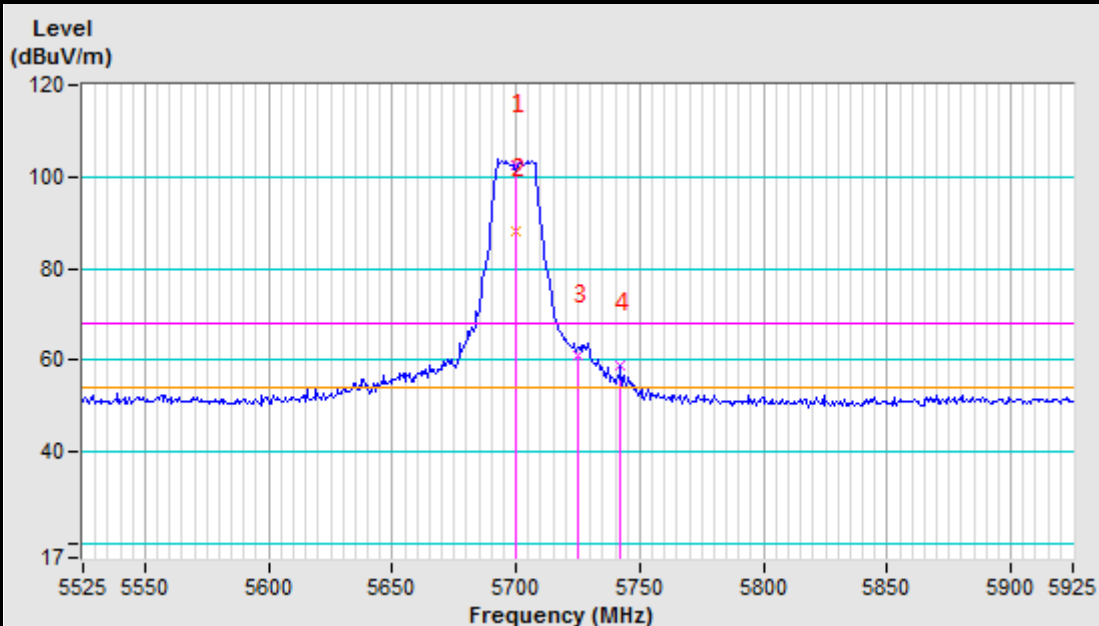
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The emission levels of other frequencies were greater than 20dB margin.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

Band edge Plot

5700MHz Horizontal



5700MHz Vertical



802.11n (20MHz)

CHANNEL	TX Channel 100	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

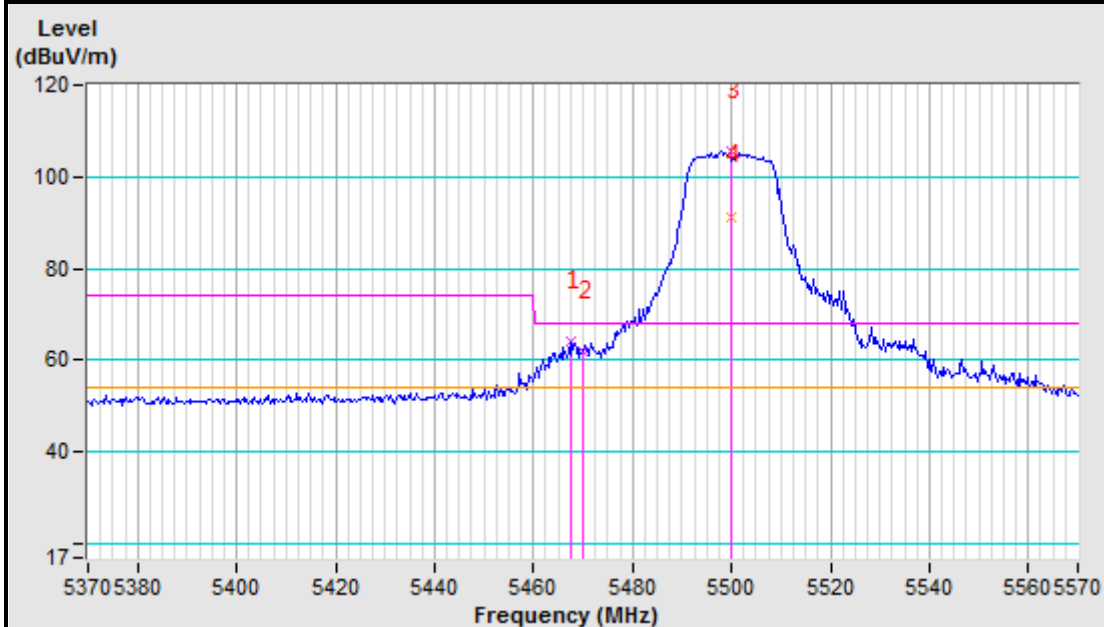
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5467.44	63.92 PK	68.20	-4.28	1.76 H	0	54.83	9.09
2	#5470.00	61.79 PK	68.20	-6.41	1.76 H	0	52.70	9.09
3	*5500.00	105.43 PK			1.76 H	0	96.31	9.12
4	*5500.00	91.25 AV			1.76 H	0	82.13	9.12
5	11000.00	57.16 PK	74.00	-16.84	1.00 H	0	37.48	19.68
6	11000.00	46.00 AV	54.00	-8.00	1.00 H	0	26.32	19.68
7	#16500.00	63.30 PK	68.20	-4.90	1.00 H	0	37.87	25.43
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	#5465.83	60.21 PK	68.20	-7.99	2.00 V	0	51.12	9.09
2	#5470.00	59.63 PK	68.20	-8.57	2.00 V	0	50.54	9.09
3	*5500.00	103.24 PK			2.00 V	0	94.12	9.12
4	*5500.00	89.23 AV			2.00 V	0	80.11	9.12
5	11000.00	57.35 PK	74.00	-16.65	1.00 V	0	37.67	19.68
6	11000.00	44.72 AV	54.00	-9.28	1.00 V	0	25.04	19.68
7	#16500.00	62.12 PK	68.20	-6.08	1.00 V	0	36.69	25.43

REMARKS:

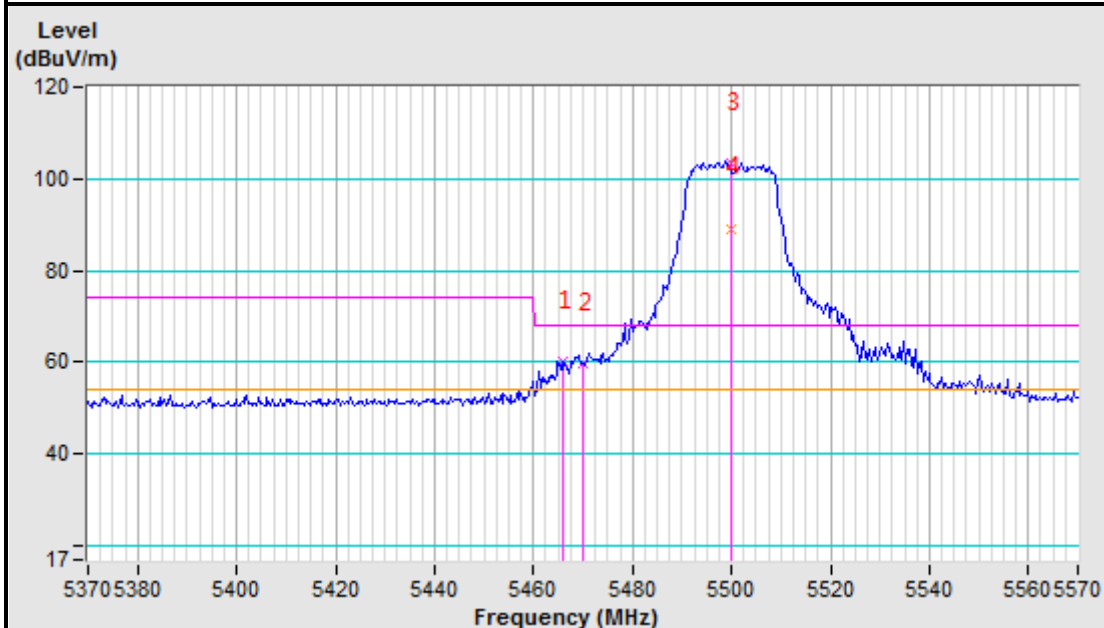
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The emission levels of other frequencies were greater than 20dB margin.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

Band edge Plot

5500MHz Horizontal



5500MHz Vertical



CHANNEL	TX Channel 116	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	#5470.00	52.30 PK	68.20	-15.90	1.00 H	0	43.21	9.09
2	*5580.00	104.42 PK			1.00 H	24	95.00	9.42
3	*5580.00	90.20 AV			1.00 H	24	80.78	9.42
4	11160.00	58.34 PK	74.00	-15.66	1.00 H	0	38.39	19.95
5	11160.00	45.12 AV	54.00	-8.88	1.00 H	0	25.17	19.95
6	#16740.00	63.00 PK	68.20	-5.20	1.00 H	0	36.80	26.20
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	#5470.00	51.69 PK	68.20	-16.51	1.00 V	20	42.60	9.09
2	*5580.00	102.98 PK			1.00 V	20	93.56	9.42
3	*5580.00	89.35 AV			1.00 V	20	79.93	9.42
4	11160.00	57.35 PK	74.00	-16.65	1.00 V	0	37.40	19.95
5	11160.00	45.50 AV	54.00	-8.50	1.00 V	0	25.55	19.95
6	#16740.00	62.20 PK	68.20	-6.00	1.00 V	0	36.00	26.20

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).
3. The emission levels of other frequencies were greater than 20dB margin.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 140	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

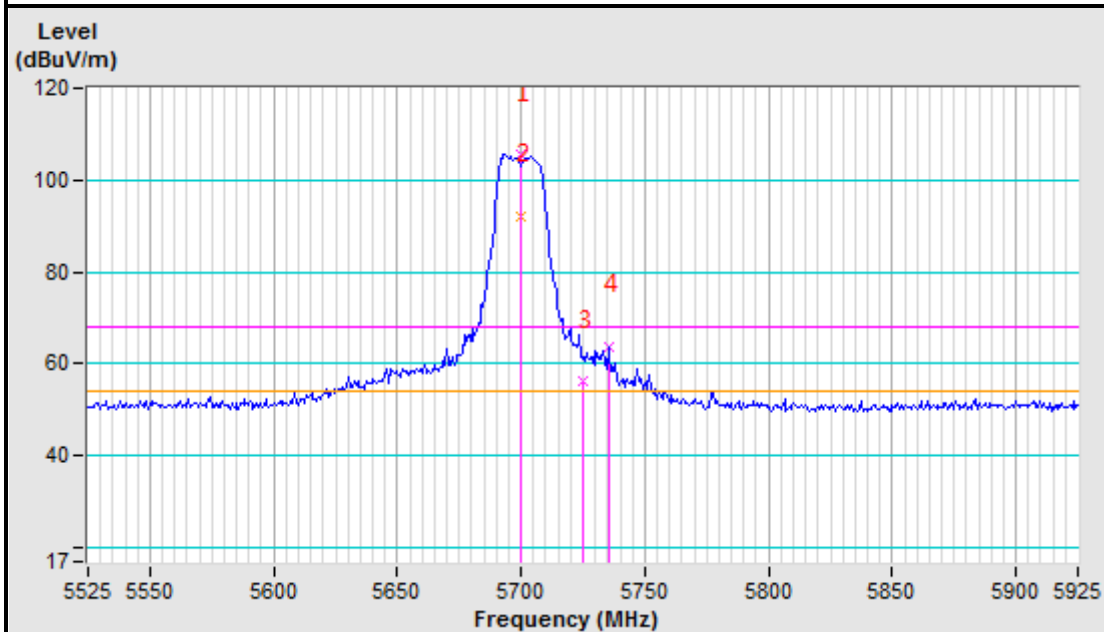
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5700.00	105.49 PK			2.00 H	163	95.62	9.87
2	*5700.00	92.10 AV			2.00 H	163	82.23	9.87
3	#5725.00	56.20 PK	68.20	-12.00	2.00 H	163	46.24	9.96
4	#5735.26	63.88 PK	68.20	-4.32	2.00 H	163	53.88	10.00
5	11400.00	58.34 PK	74.00	-15.66	1.00 H	0	37.99	20.35
6	11400.00	46.20 AV	54.00	-7.80	1.00 H	0	25.85	20.35
7	#17100.00	62.24 PK	68.20	-5.96	1.00 H	0	35.10	27.14
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	*5700.00	103.44 PK			1.00 V	163	93.57	9.87
2	*5700.00	89.52 AV			1.00 V	163	79.65	9.87
3	#5725.00	59.25 PK	68.20	-8.95	1.00 V	163	49.29	9.96
4	#5728.21	61.49 PK	68.20	-6.71	1.00 V	163	51.52	9.97
5	11400.00	57.34 PK	74.00	-16.66	1.00 V	0	36.99	20.35
6	11400.00	43.69 AV	54.00	-10.31	1.00 V	0	23.34	20.35
7	#17100.00	62.50 PK	68.20	-5.70	1.00 V	0	35.36	27.14

REMARKS:

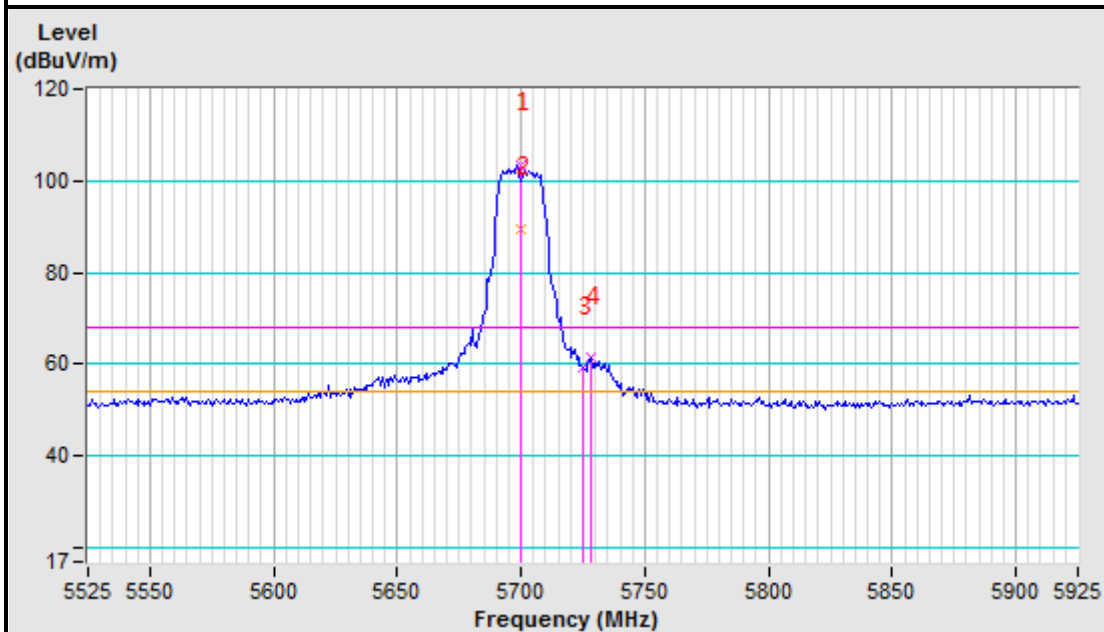
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The emission levels of other frequencies were greater than 20dB margin.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

Band edge Plot

5700MHz Horizontal



5700MHz Vertical



802.11n (40MHz)

CHANNEL	TX Channel 102	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

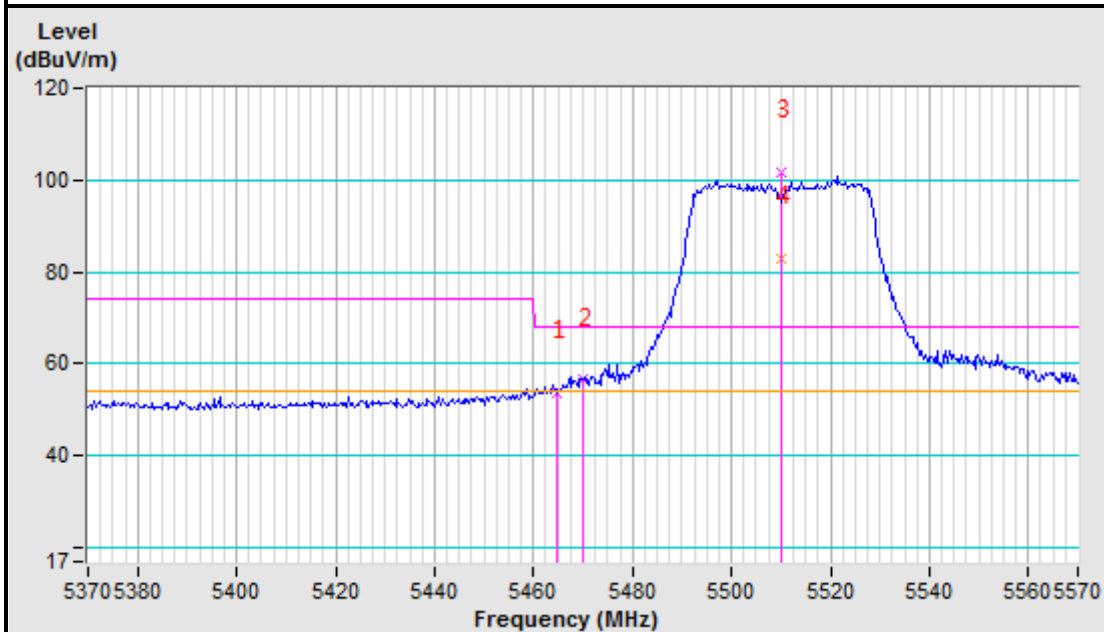
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5464.55	53.70 PK	68.20	-14.50	1.00 H	0	44.61	9.09
2	#5470.00	56.54 PK	68.20	-11.66	1.00 H	0	47.45	9.09
3	*5510.00	101.76 PK			1.00 H	0	92.60	9.16
4	*5510.00	83.04 AV			1.00 H	0	73.88	9.16
5	11020.00	58.86 PK	74.00	-15.14	1.00 H	0	39.15	19.71
6	11020.00	45.90 AV	54.00	-8.10	1.00 H	0	26.19	19.71
7	#16530.00	63.54 PK	68.20	-4.66	1.00 H	0	38.01	25.53
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	#5463.27	51.34 PK	68.20	-16.86	2.00 V	0	42.26	9.08
2	#5470.00	52.21 PK	68.20	-15.99	2.00 V	0	43.12	9.09
3	*5510.00	95.68 PK			2.00 V	0	86.52	9.16
4	*5510.00	78.50 AV			2.00 V	0	69.34	9.16
5	11020.00	57.36 PK	74.00	-16.64	1.00 V	0	37.65	19.71
6	11020.00	43.90 AV	54.00	-10.10	1.00 V	0	24.19	19.71
7	#16530.00	63.30 PK	68.20	-4.90	1.00 V	0	37.77	25.53

REMARKS:

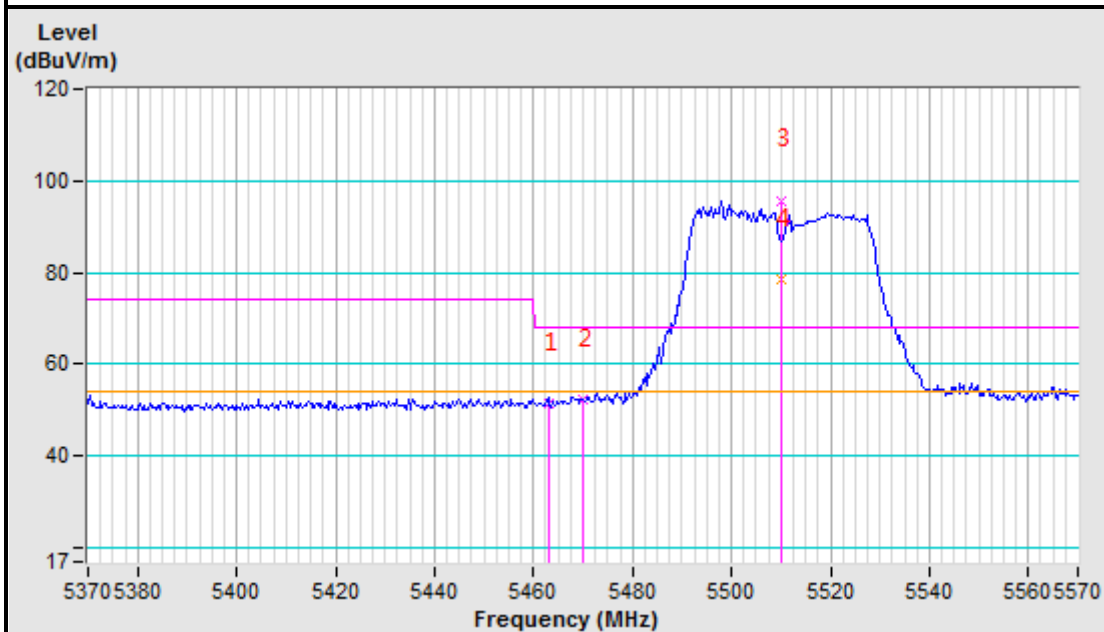
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The emission levels of other frequencies were greater than 20dB margin.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

Band edge Plot

5510MHz Horizontal



5510MHz Vertical



CHANNEL	TX Channel 110	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	#5470.00	51.35 PK	68.20	-16.85	1.00 H	35	42.26	9.09
2	*5550.00	103.90 PK			1.00 H	35	94.59	9.31
3	*5550.00	85.60 AV			1.00 H	35	76.29	9.31
4	11100.00	58.14 PK	74.00	-15.86	1.00 H	0	38.30	19.84
5	11100.00	45.72 AV	54.00	-8.28	1.00 H	0	25.88	19.84
6	#16650.00	62.32 PK	68.20	-5.88	1.00 H	0	36.41	25.91
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	#5470.00	51.24 PK	68.20	-16.96	1.00 V	0	42.15	9.09
2	*5550.00	100.34 PK			1.00 V	0	91.03	9.31
3	*5550.00	82.67 AV			1.00 V	0	73.36	9.31
4	11100.00	57.70 PK	74.00	-16.30	1.00 V	0	37.86	19.84
5	11100.00	44.00 AV	54.00	-10.00	1.00 V	0	24.16	19.84
6	#16650.00	62.24 PK	68.20	-5.96	1.00 V	0	36.34	25.91

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).
3. The emission levels of other frequencies were greater than 20dB margin.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 134	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

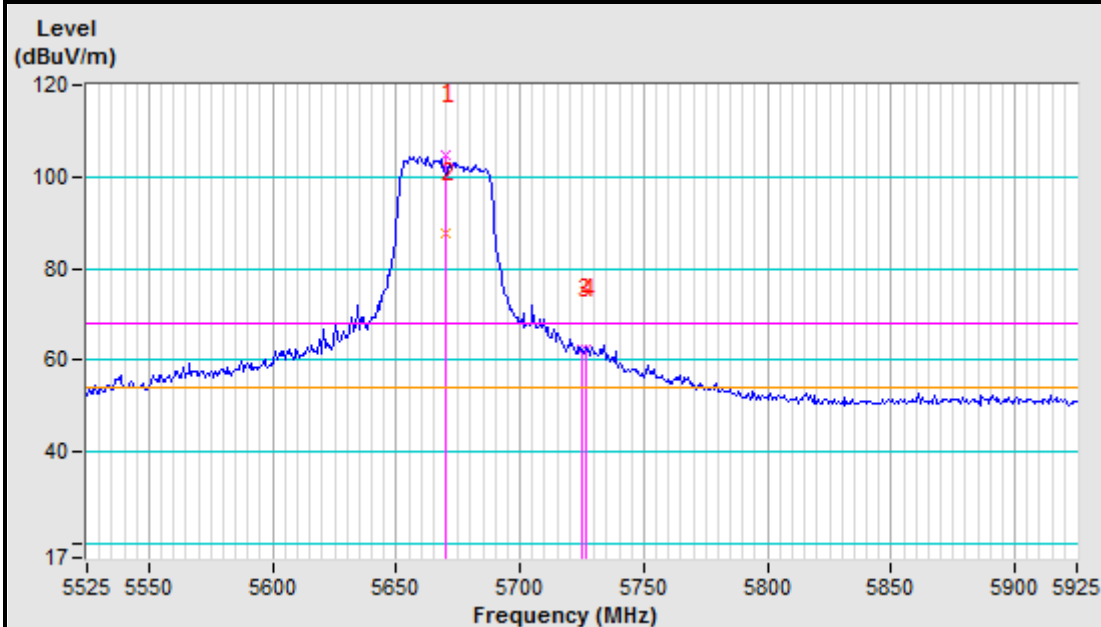
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5670.00	104.71 PK			2.00 H	0	94.96	9.75
2	*5670.00	87.68 AV			2.00 H	0	77.93	9.75
3	#5725.00	62.34 PK	68.20	-5.86	2.00 H	0	52.38	9.96
4	#5726.28	62.39 PK	68.20	-5.81	2.00 H	0	52.43	9.96
5	11340.00	58.88 PK	74.00	-15.12	1.00 H	0	38.64	20.24
6	11340.00	45.92 AV	54.00	-8.08	1.00 H	0	25.68	20.24
7	#17010.00	63.03 PK	68.20	-5.17	1.00 H	0	36.00	27.03
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	*5670.00	100.05 PK			1.00 V	0	90.30	9.75
2	*5670.00	82.10 AV			1.00 V	0	72.35	9.75
3	#5725.00	58.13 PK	68.20	-10.07	1.00 V	0	48.17	9.96
4	#5726.28	62.11 PK	68.20	-6.09	1.00 V	0	52.15	9.96
5	11340.00	57.92 PK	74.00	-16.08	1.00 V	0	37.68	20.24
6	11340.00	45.10 AV	54.00	-8.90	1.00 V	0	24.86	20.24
7	#16770.00	62.77 PK	68.20	-5.43	1.00 V	0	36.48	26.29

REMARKS:

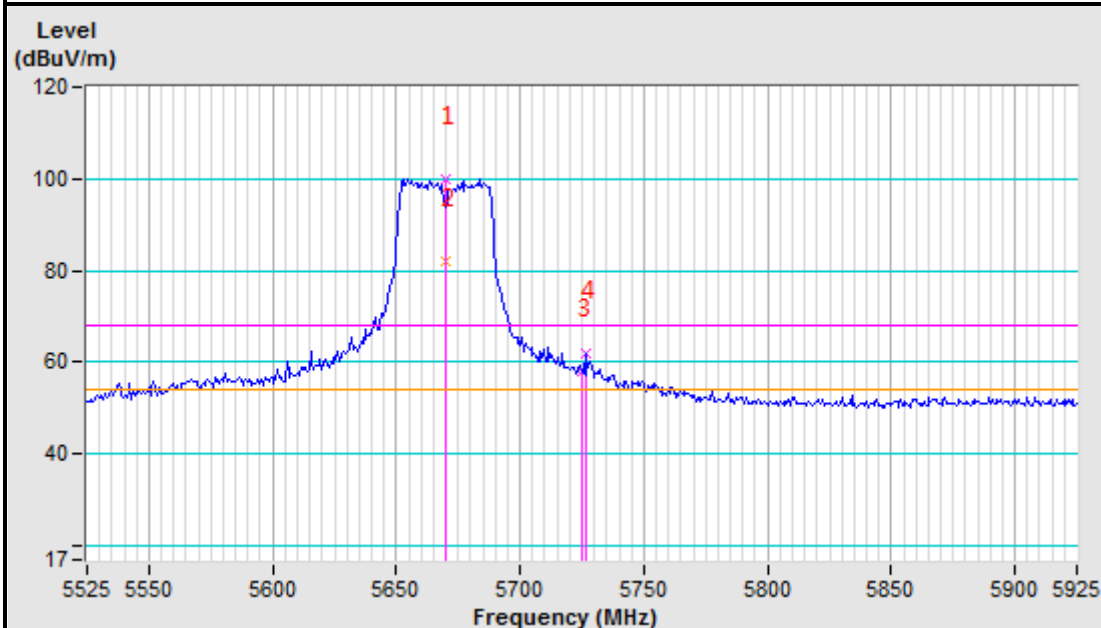
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The emission levels of other frequencies were greater than 20dB margin.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

Band edge Plot

5670MHz Horizontal



5670MHz Vertical



802.11ac 80MHz

CHANNEL	TX Channel 106	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

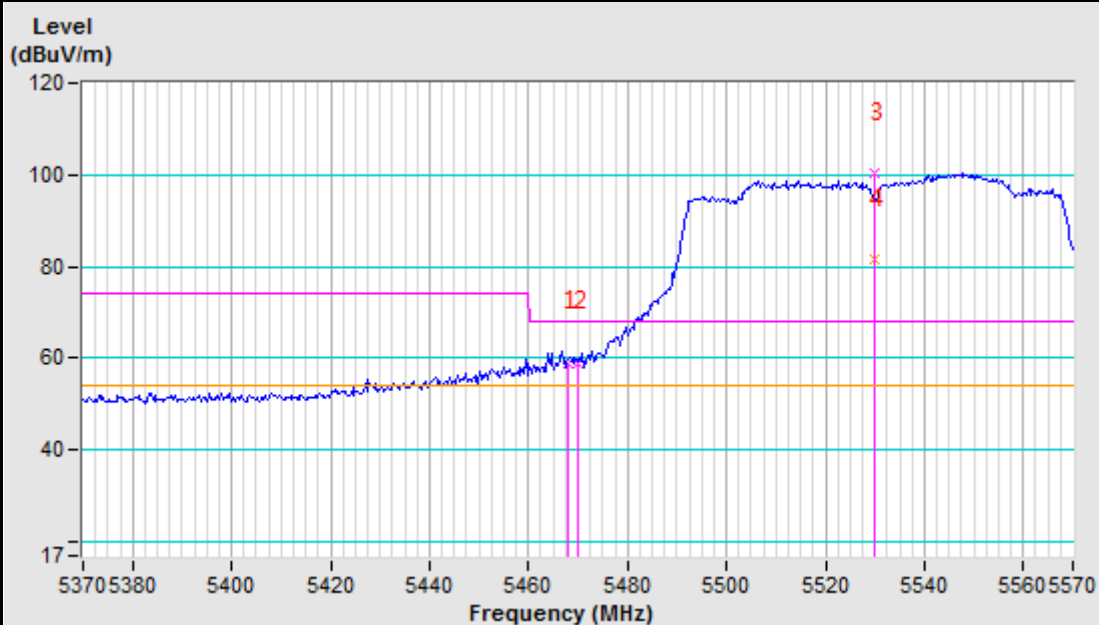
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5468.00	58.99 PK	68.20	-9.21	1.00 H	0	49.89	9.10
2	#5470.00	59.04 PK	68.20	-9.16	1.00 H	0	49.95	9.09
3	*5530.00	100.34 PK			1.00 H	0	91.11	9.23
4	*5530.00	81.50 AV			1.00 H	0	72.27	9.23
5	11060.00	58.20 PK	74.00	-15.80	1.00 H	0	38.42	19.78
6	11060.00	46.20 AV	54.00	-7.80	1.00 H	0	26.42	19.78
7	#16590.00	63.02 PK	68.20	-5.18	1.00 H	0	37.30	25.72
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	#5464.23	57.11 PK	68.20	-11.09	1.00 V	0	48.02	9.09
2	#5470.00	59.92 PK	68.20	-8.28	1.00 V	0	50.83	9.09
3	*5530.00	99.14 PK			1.00 V	0	89.91	9.23
4	*5530.00	79.80 AV			1.00 V	0	70.57	9.23
5	11060.00	57.25 PK	74.00	-16.75	1.00 V	0	37.47	19.78
6	11060.00	45.10 AV	54.00	-8.90	1.00 V	0	25.32	19.78
7	#16590.00	62.66 PK	68.20	-5.54	1.00 V	0	36.94	25.72

REMARKS:

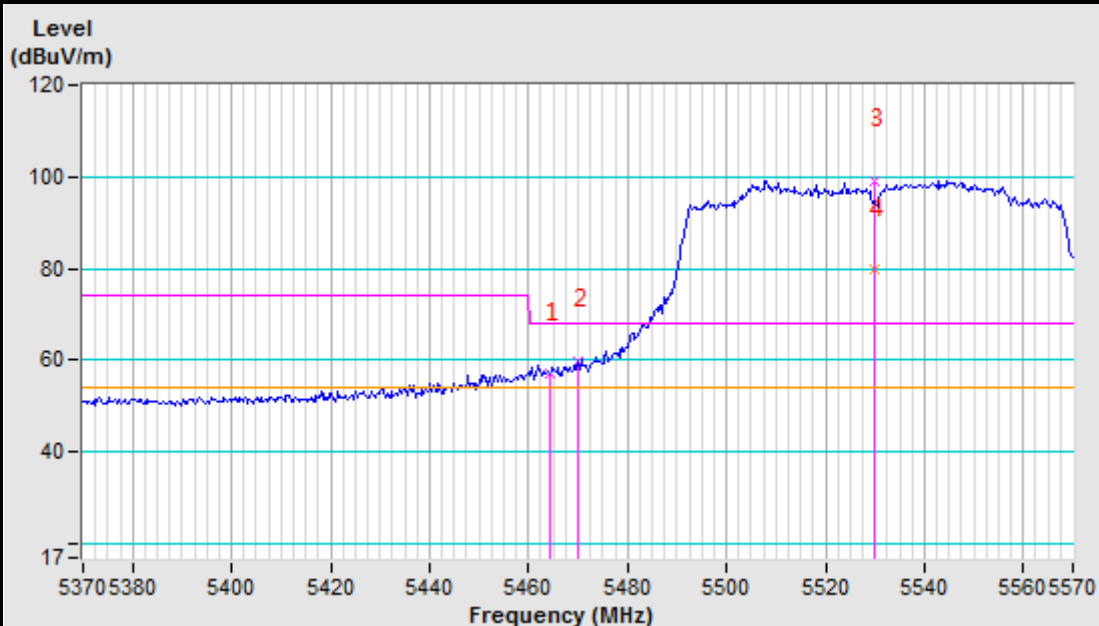
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The emission levels of other frequencies were greater than 20dB margin.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

Band edge Plot

5530MHz Horizontal



5530MHz Vertical



CHANNEL	TX Channel 122	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

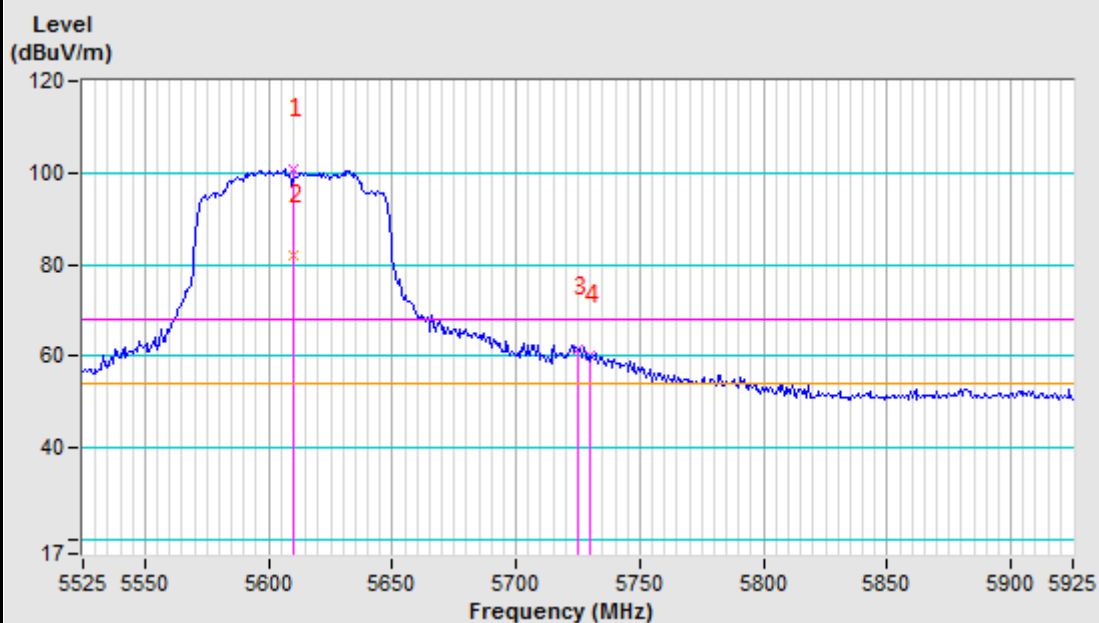
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5610.00	100.64 PK			1.00 H	0	91.11	9.53
2	*5610.00	82.03 AV			1.00 H	0	72.50	9.53
3	#5725.00	61.54 PK	68.20	-6.66	1.00 H	0	51.58	9.96
4	#5730.13	60.00 PK	68.20	-8.20	1.00 H	0	50.03	9.97
5	11220.00	58.92 PK	74.00	-15.08	1.00 H	0	38.87	20.05
6	11220.00	46.70 AV	54.00	-7.30	1.00 H	0	26.65	20.05
7	#16830.00	63.27 PK	68.20	-4.93	1.00 H	0	36.79	26.48
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	*5610.00	99.09 PK			1.00 V	0	89.56	9.53
2	*5610.00	79.20 AV			1.00 V	0	69.67	9.53
3	#5725.00	57.59 PK	68.20	-10.61	1.00 V	0	47.63	9.96
4	#5734.62	59.20 PK	68.20	-9.00	1.00 V	0	49.20	10.00
5	11220.00	57.29 PK	74.00	-16.71	1.00 V	0	37.24	20.05
6	11220.00	45.30 AV	54.00	-8.70	1.00 V	0	25.25	20.05
7	#16830.00	63.20 PK	68.20	-5.00	1.00 V	0	36.72	26.48

REMARKS:

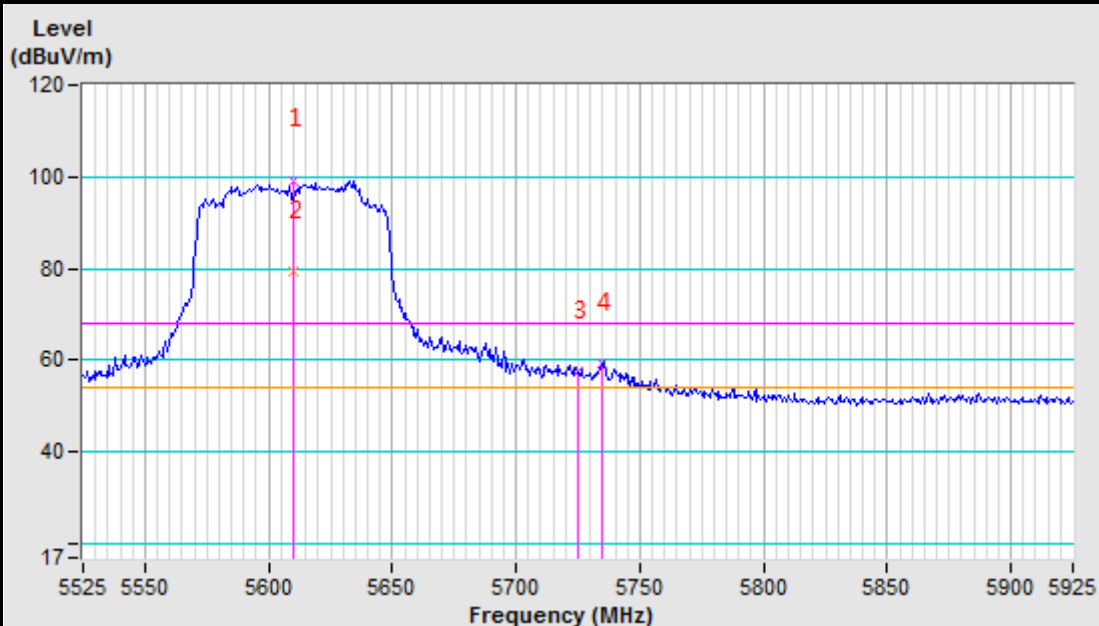
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The emission levels of other frequencies were greater than 20dB margin.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

Band edge Plot

5610MHz Horizontal



5610MHz Vertical



Band 4 (5725-5850MHz):

ABOVE 1GHz DATA

802.11a

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

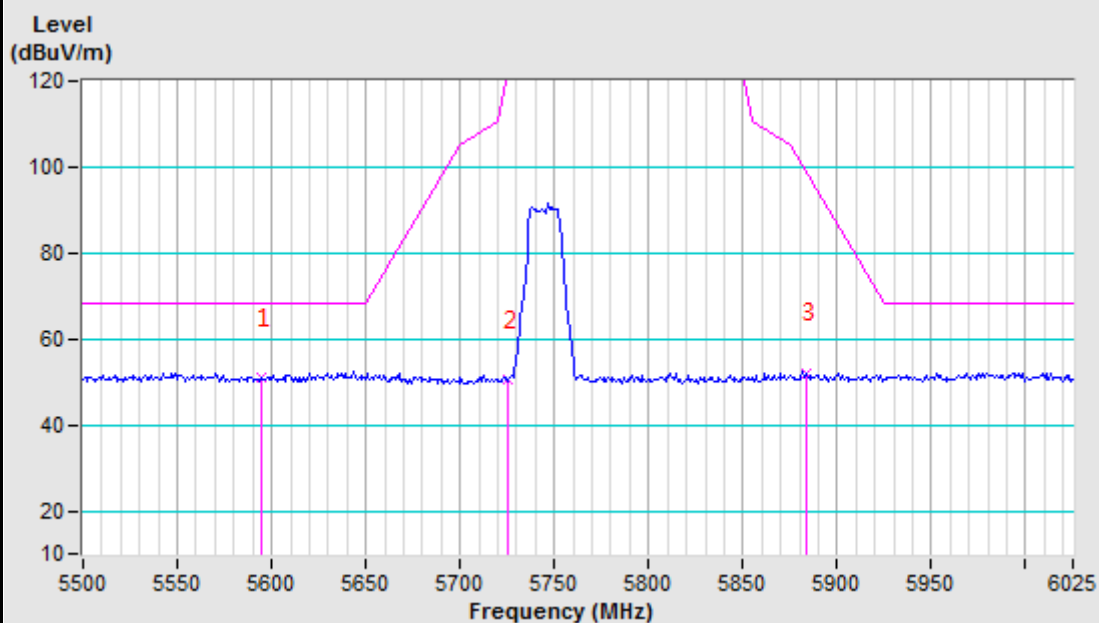
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5594.59	50.81 PK	68.20	-17.39	1.05 H	0	41.34	9.47
2	#5725.00	50.44 PK	122.20	-71.76	1.05 H	0	40.48	9.96
3	*5745.00	91.35 PK			1.00 H	50	81.32	10.03
4	*5745.00	79.80 AV			1.00 H	50	69.77	10.03
5	#5883.65	51.93 PK	98.77	-46.84	1.05 H	0	41.38	10.55
6	11490.00	58.26 PK	74.00	-15.74	1.00 H	0	37.77	20.49
7	11490.00	46.23 AV	54.00	-7.77	1.00 H	0	25.74	20.49
8	#17235.00	63.20 PK	68.20	-5.00	1.00 H	0	35.89	27.31
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	#5631.61	50.96 PK	68.20	-17.24	1.35 V	0	41.35	9.61
2	#5725.00	51.20 PK	122.20	-71.00	1.35 V	0	41.24	9.96
3	*5745.00	95.60 PK			1.00 V	0	85.57	10.03
4	*5745.00	83.57 AV			1.00 V	0	73.54	10.03
5	#5937.50	53.99 PK	68.20	-14.21	1.35 V	0	43.24	10.75
6	11490.00	56.89 PK	74.00	-17.11	1.00 V	0	36.40	20.49
7	11490.00	45.88 AV	54.00	-8.12	1.00 V	0	25.39	20.49
8	#17235.00	63.59 PK	68.20	-4.61	1.00 V	0	36.28	27.31

REMARKS:

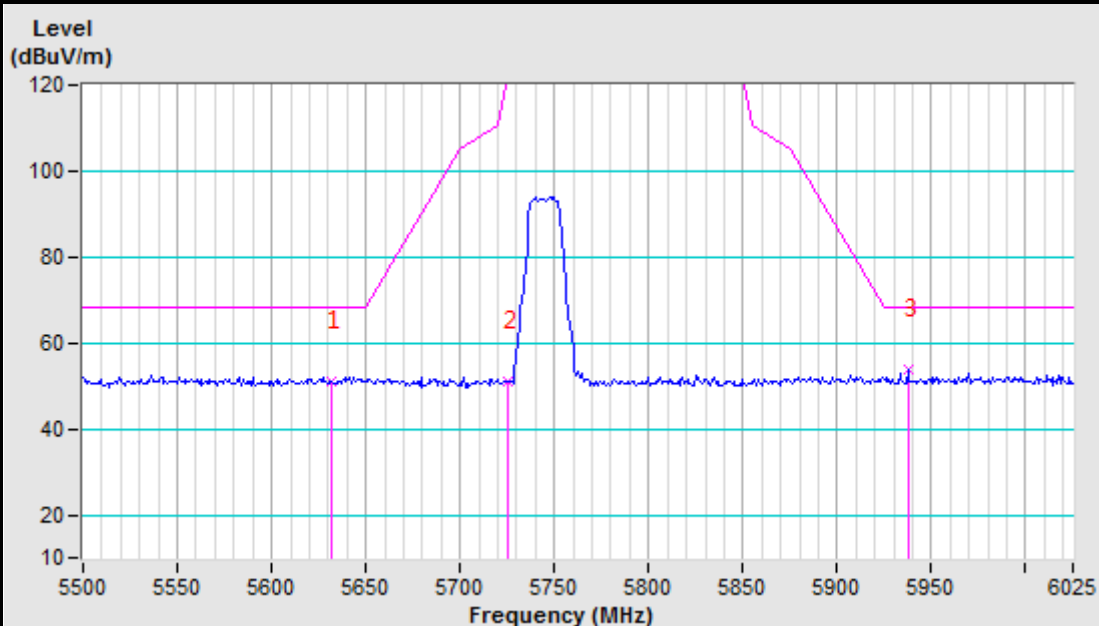
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The emission levels of other frequencies were greater than 20dB margin.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

Band edge Plot

5745MHz Horizontal



5745MHz Vertical



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

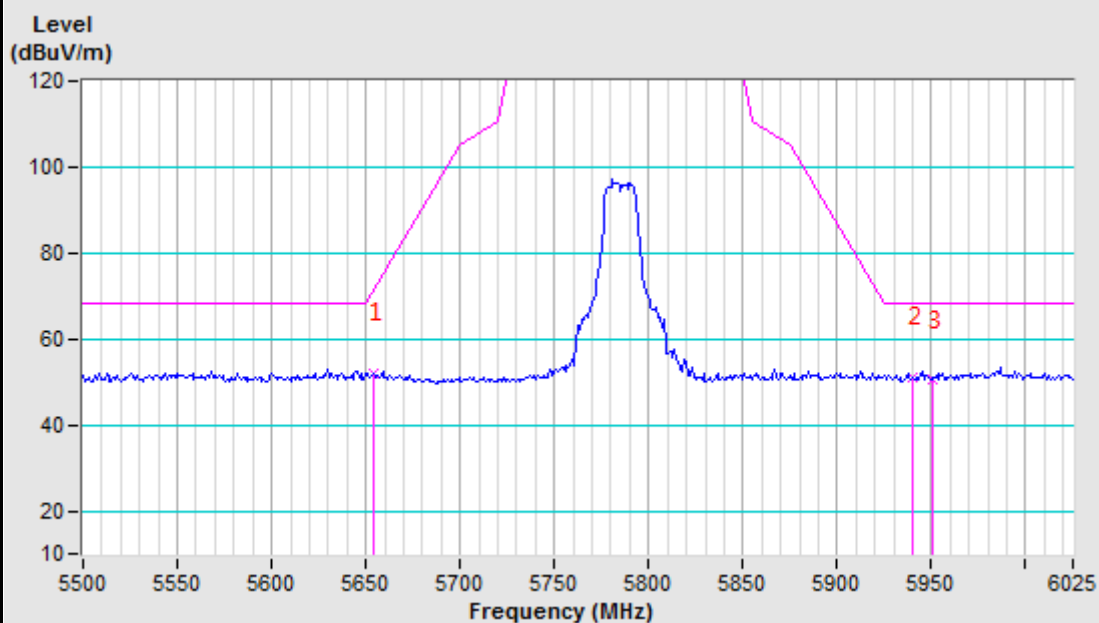
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5654.33	51.93 PK	71.41	-19.48	1.00 H	0	42.23	9.70
2	*5785.00	97.12 PK			1.00 H	0	86.94	10.18
3	*5785.00	84.55 AV			1.00 H	0	74.37	10.18
4	#5940.02	51.00 PK	68.20	-17.20	1.10 H	0	40.24	10.76
5	#5950.96	50.38 PK	68.20	-17.82	1.10 H	0	39.59	10.79
6	11570.00	56.26 PK	74.00	-17.74	1.00 H	0	35.60	20.66
7	11570.00	45.20 AV	54.00	-8.80	1.00 H	0	24.54	20.66
8	#17355.00	64.17 PK	68.20	-4.03	1.00 H	0	36.71	27.46
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	#5660.22	51.18 PK	75.79	-24.61	1.00 V	0	41.47	9.71
2	*5785.00	100.43 PK			1.00 V	110	90.25	10.18
3	*5785.00	87.21 AV			1.00 V	110	77.03	10.18
4	#5921.51	51.53 PK	70.77	-19.24	1.00 V	0	40.84	10.69
5	#5939.18	50.82 PK	68.20	-17.38	1.00 V	0	40.07	10.75
6	11570.00	58.06 PK	74.00	-15.94	1.00 V	0	37.40	20.66
7	11570.00	48.01 AV	54.00	-5.99	1.00 V	0	27.35	20.66
8	#17355.00	63.59 PK	68.20	-4.61	1.00 V	0	36.13	27.46

REMARKS:

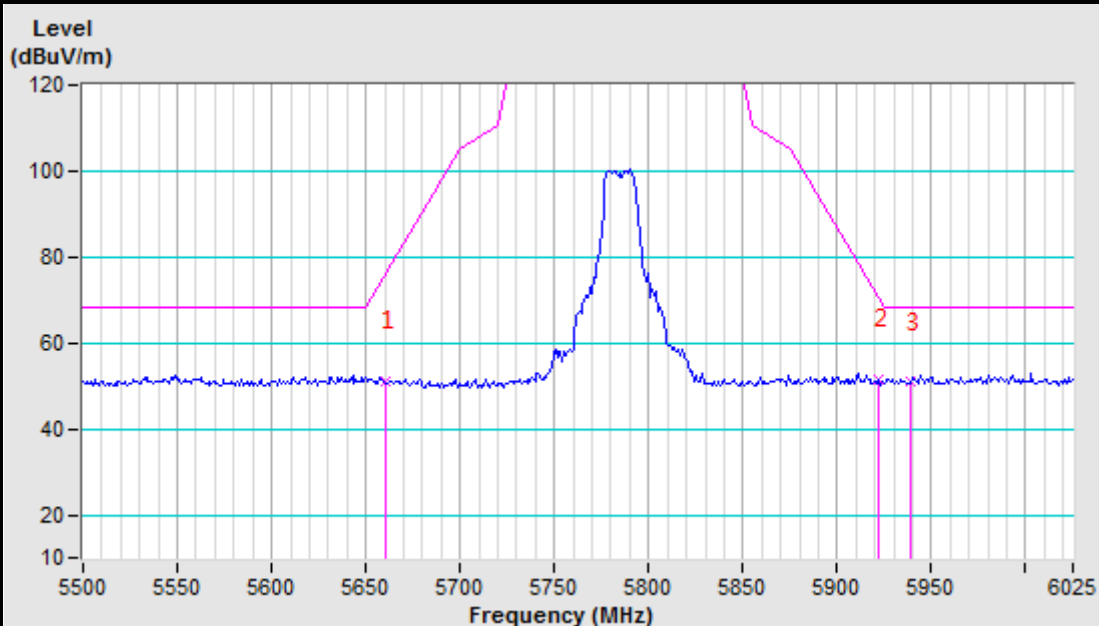
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The emission levels of other frequencies were greater than 20dB margin.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

Band edge Plot

5785MHz Horizontal



5785MHz Vertical



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

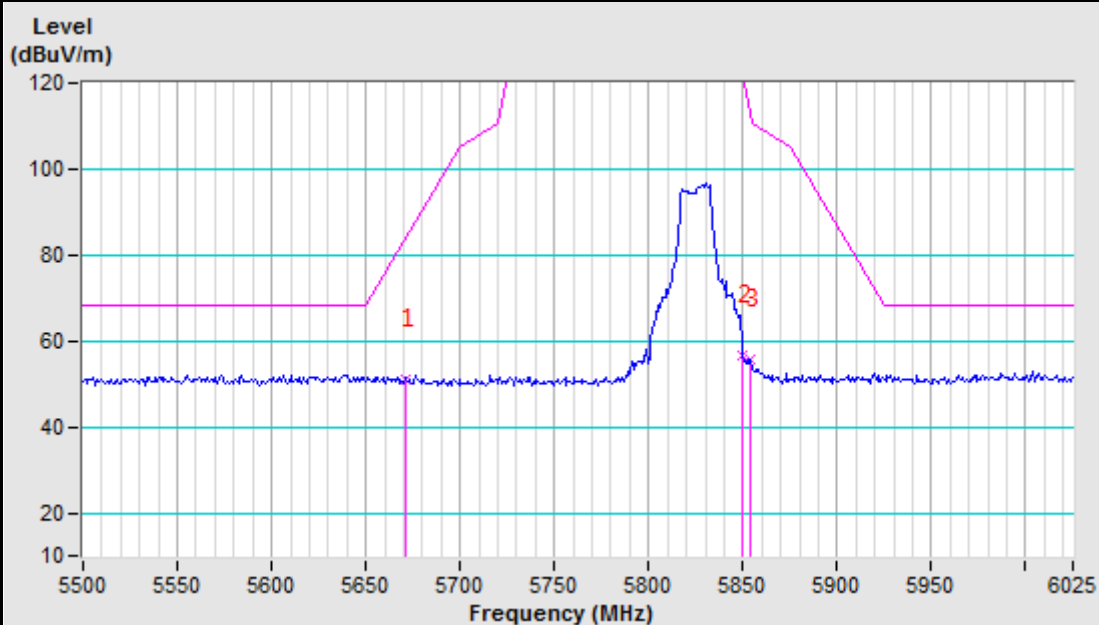
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5671.15	50.92 PK	83.89	-32.97	1.00 H	0	41.16	9.76
2	*5825.00	96.50 PK			1.00 H	25	86.17	10.33
3	*5825.00	83.99 AV			1.00 H	25	73.66	10.33
4	#5850.00	56.61 PK	122.20	-65.59	1.00 H	0	46.19	10.42
5	#5854.21	55.60 PK	112.61	-57.01	1.00 H	0	45.17	10.43
6	11650.00	58.12 PK	74.00	-15.88	1.00 H	0	37.28	20.84
7	11650.00	47.11 AV	54.00	-6.89	1.00 H	0	26.27	20.84
8	#17475.00	64.02 PK	68.20	-4.18	1.00 H	0	36.41	27.61
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	#5649.28	51.80 PK	68.20	-16.40	1.00 V	0	42.12	9.68
2	*5825.00	99.29 PK			1.00 V	35	88.96	10.33
3	*5825.00	86.30 AV			1.00 V	35	75.97	10.33
4	#5850.00	60.46 PK	122.20	-61.74	1.00 V	0	50.04	10.42
5	#5856.73	57.19 PK	110.31	-53.12	1.00 V	0	46.74	10.45
6	11650.00	57.77 PK	74.00	-16.23	1.00 V	0	36.93	20.84
7	11650.00	46.80 AV	54.00	-7.20	1.00 V	0	25.96	20.84
8	#17475.00	64.25 PK	68.20	-3.95	1.00 V	0	36.64	27.61

REMARKS:

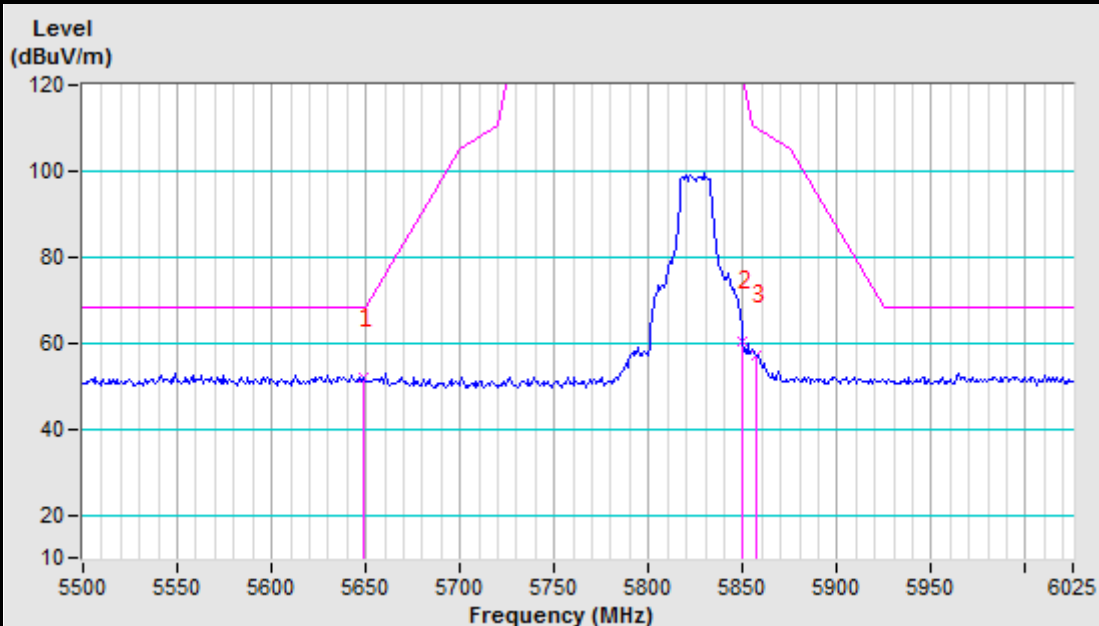
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The emission levels of other frequencies were greater than 20dB margin.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

Band edge Plot

5825MHz Horizontal



5825MHz Vertical



802.11n (20MHz)

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

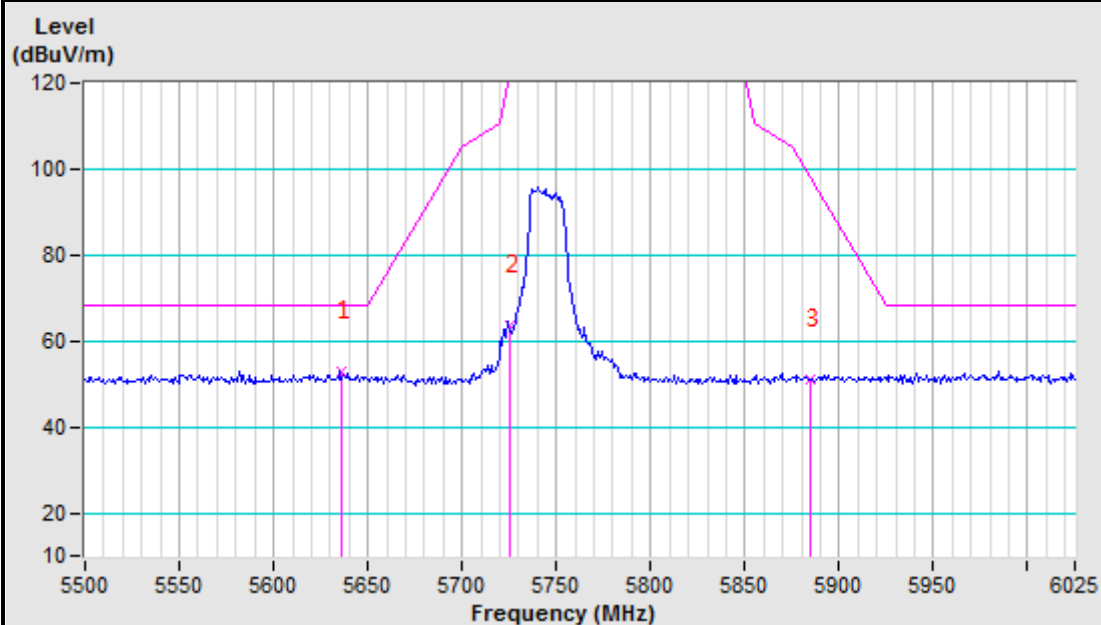
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5635.82	52.93 PK	68.20	-15.27	1.00 H	0	43.31	9.62
2	#5725.00	63.69 PK	122.20	-58.51	1.00 H	0	53.73	9.96
3	*5745.00	95.70 PK			1.00 H	80	85.67	10.03
4	*5745.00	81.71 AV			1.00 H	80	71.68	10.03
5	#5884.50	51.01 PK	98.15	-47.14	1.00 H	0	40.46	10.55
6	11490.00	58.33 PK	74.00	-15.67	1.00 H	0	37.84	20.49
7	11490.00	45.92 AV	54.00	-8.08	1.00 H	0	25.43	20.49
8	#17235.00	63.00 PK	68.20	-5.20	1.00 H	0	35.69	27.31
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	#5715.75	58.15 PK	109.61	-51.46	1.00 V	0	48.22	9.93
2	#5725.00	67.43 PK	122.20	-54.77	1.00 V	0	57.47	9.96
3	*5745.00	98.88 PK			1.00 V	55	88.85	10.03
4	*5745.00	85.40 AV			1.00 V	55	75.37	10.03
5	#5906.37	51.31 PK	81.95	-30.64	1.00 V	0	40.68	10.63
6	11490.00	56.29 PK	74.00	-17.71	1.00 V	0	35.80	20.49
7	11490.00	45.80 AV	54.00	-8.20	1.00 V	0	25.31	20.49
8	#17235.00	63.58 PK	68.20	-4.62	1.00 V	0	36.27	27.31

REMARKS:

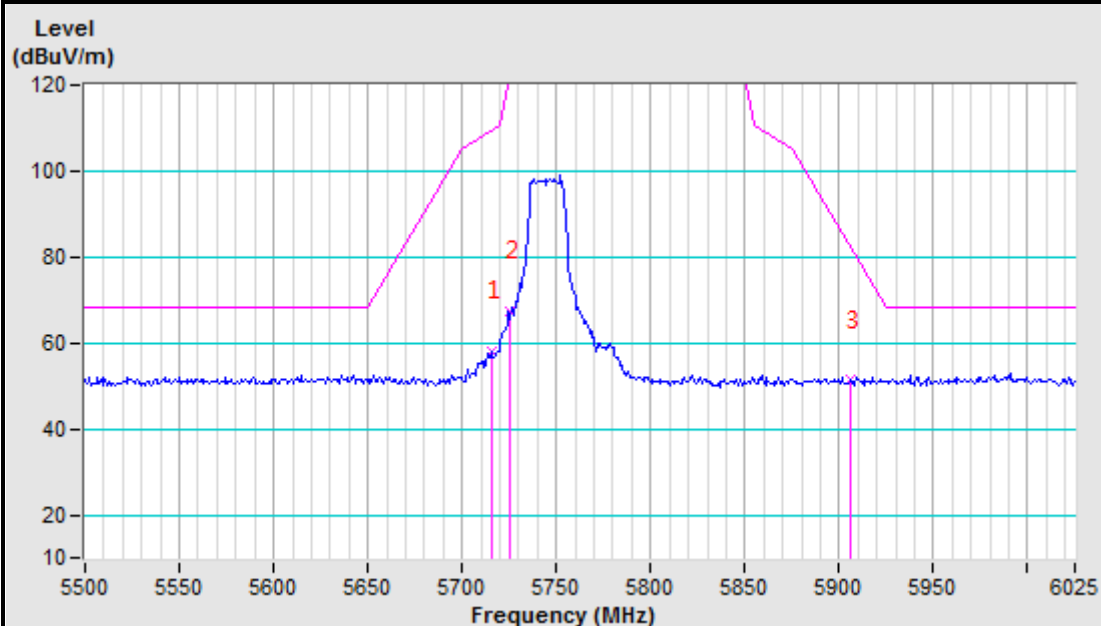
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The emission levels of other frequencies were greater than 20dB margin.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

Band edge Plot

5745MHz Horizontal



5745MHz Vertical



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

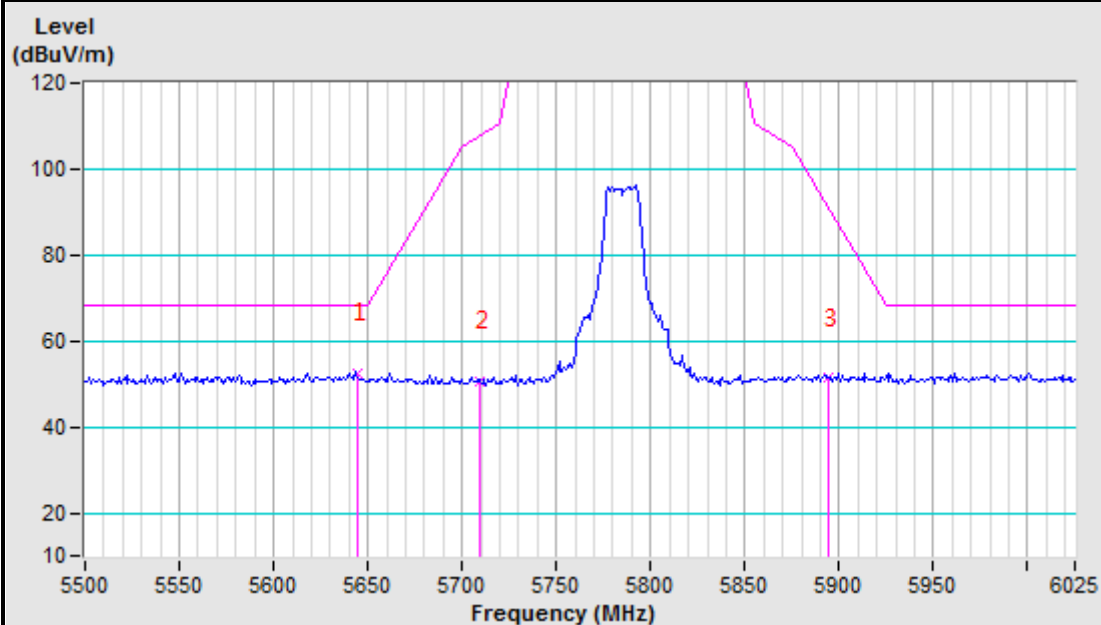
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5644.23	52.32 PK	68.20	-15.88	1.00 H	0	42.67	9.65
2	#5709.01	50.69 PK	107.73	-57.04	1.00 H	0	40.79	9.90
3	*5785.00	96.11 PK			1.00 H	27	85.93	10.18
4	*5785.00	82.70 AV			1.00 H	27	72.52	10.18
5	#5893.75	51.30 PK	91.29	-39.99	1.00 H	0	40.71	10.59
6	11570.00	59.23 PK	74.00	-14.77	1.00 H	0	38.57	20.66
7	11570.00	48.20 AV	54.00	-5.80	1.00 H	0	27.54	20.66
8	#17355.00	64.26 PK	68.20	-3.94	1.00 H	0	36.80	27.46
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	#5619.83	51.41 PK	68.20	-16.79	1.00 V	0	41.84	9.57
2	#5689.66	50.87 PK	97.58	-46.71	1.00 V	0	41.04	9.83
3	*5785.00	100.58 PK			1.00 V	20	90.40	10.18
4	*5785.00	87.14 AV			1.00 V	20	76.96	10.18
5	#5890.38	50.96 PK	93.78	-42.82	1.00 V	0	40.38	10.58
6	11570.00	57.95 PK	74.00	-16.05	1.00 V	0	37.29	20.66
7	11570.00	46.00 AV	54.00	-8.00	1.00 V	0	25.34	20.66
8	#17355.00	63.99 PK	68.20	-4.21	1.00 V	0	36.53	27.46

REMARKS:

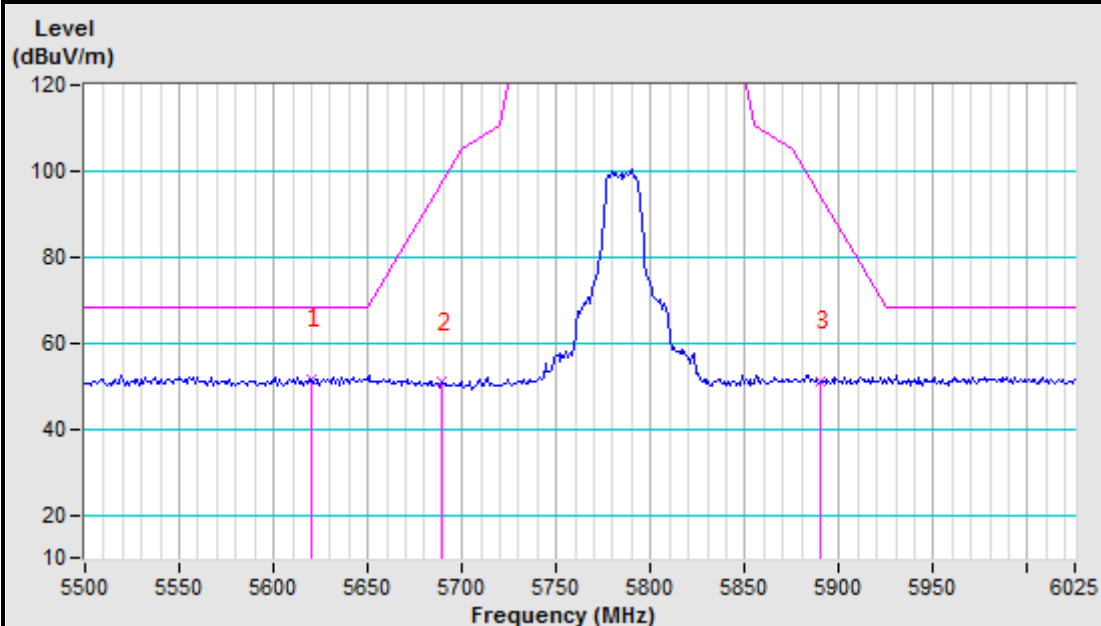
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The emission levels of other frequencies were greater than 20dB margin.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

Band edge Plot

5785MHz Horizontal



5785MHz Vertical



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

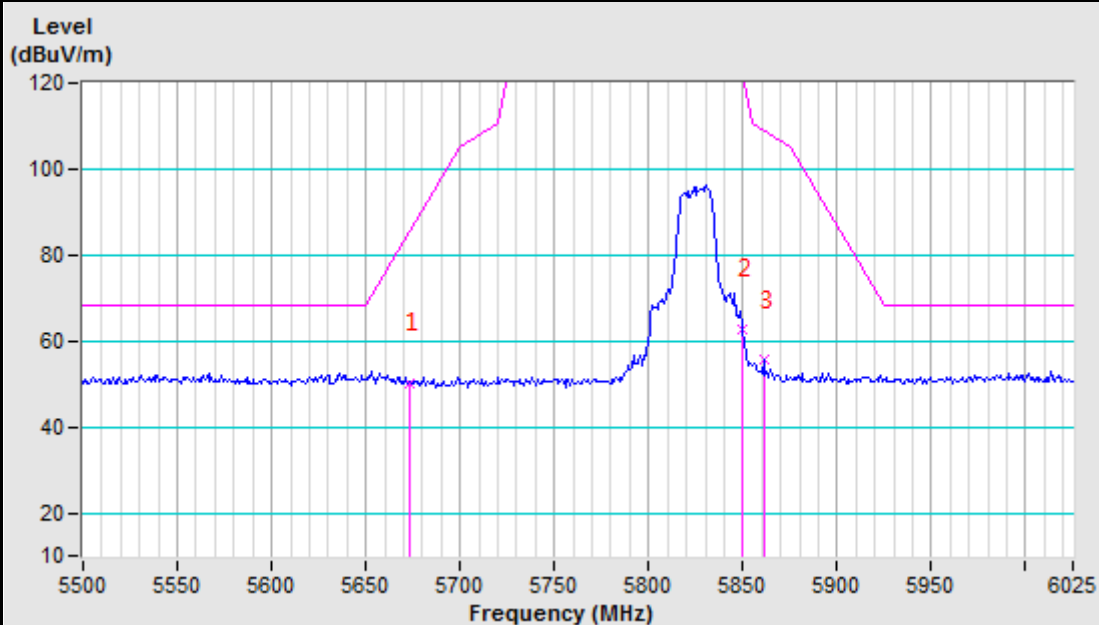
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5672.84	50.24 PK	85.14	-34.90	1.00 H	0	40.47	9.77
2	*5825.00	96.28 PK			1.00 H	54	85.95	10.33
3	*5825.00	82.82 AV			1.00 H	54	72.49	10.33
4	#5850.00	62.67 PK	122.20	-59.53	1.00 H	0	52.25	10.42
5	#5860.94	55.55 PK	109.14	-53.59	1.00 H	0	45.09	10.46
6	11650.00	57.59 PK	74.00	-16.41	1.00 H	0	36.75	20.84
7	11650.00	47.00 AV	54.00	-7.00	1.00 H	0	26.16	20.84
8	#17475.00	64.12 PK	68.20	-4.08	1.00 H	0	36.51	27.61
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	#5672.00	50.60 PK	84.52	-33.92	1.00 V	0	40.84	9.76
2	*5825.00	98.67 PK			1.00 V	11	88.34	10.33
3	*5825.00	85.51 AV			1.00 V	11	75.18	10.33
4	#5850.00	66.03 PK	122.20	-56.17	1.00 V	0	55.61	10.42
5	#5856.73	58.55 PK	110.31	-51.76	1.00 V	0	48.10	10.45
6	11650.00	56.67 PK	74.00	-17.33	1.00 V	0	35.83	20.84
7	11650.00	45.50 AV	54.00	-8.50	1.00 V	0	24.66	20.84
8	#17475.00	63.48 PK	68.20	-4.72	1.00 V	0	35.87	27.61

REMARKS:

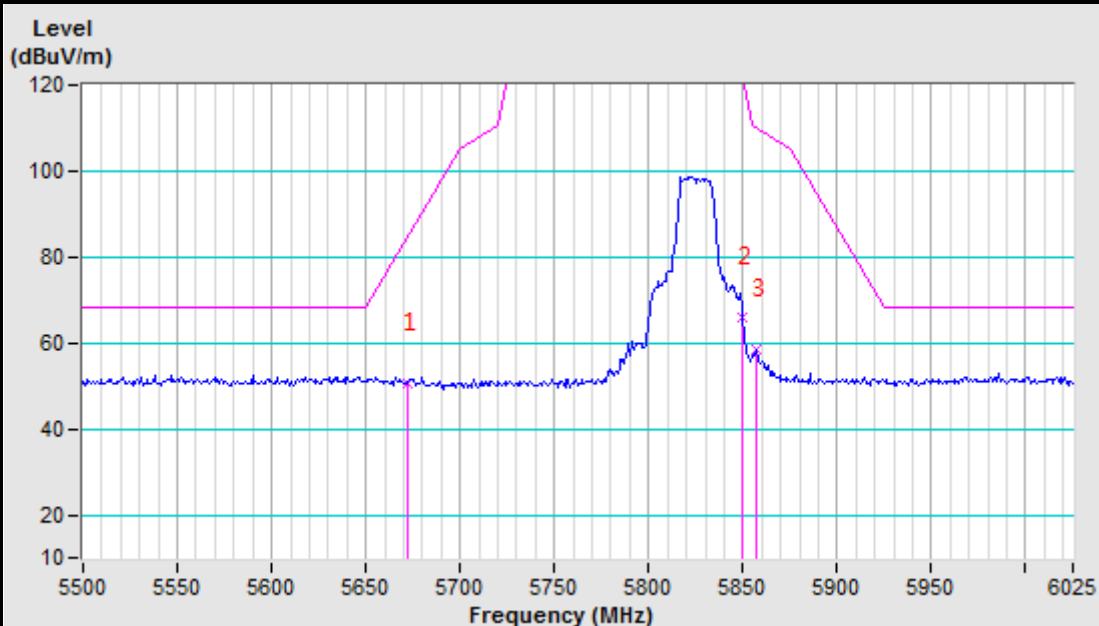
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The emission levels of other frequencies were greater than 20dB margin.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

Band edge Plot

5825MHz Horizontal



5825MHz Vertical



802.11n (40MHz)

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

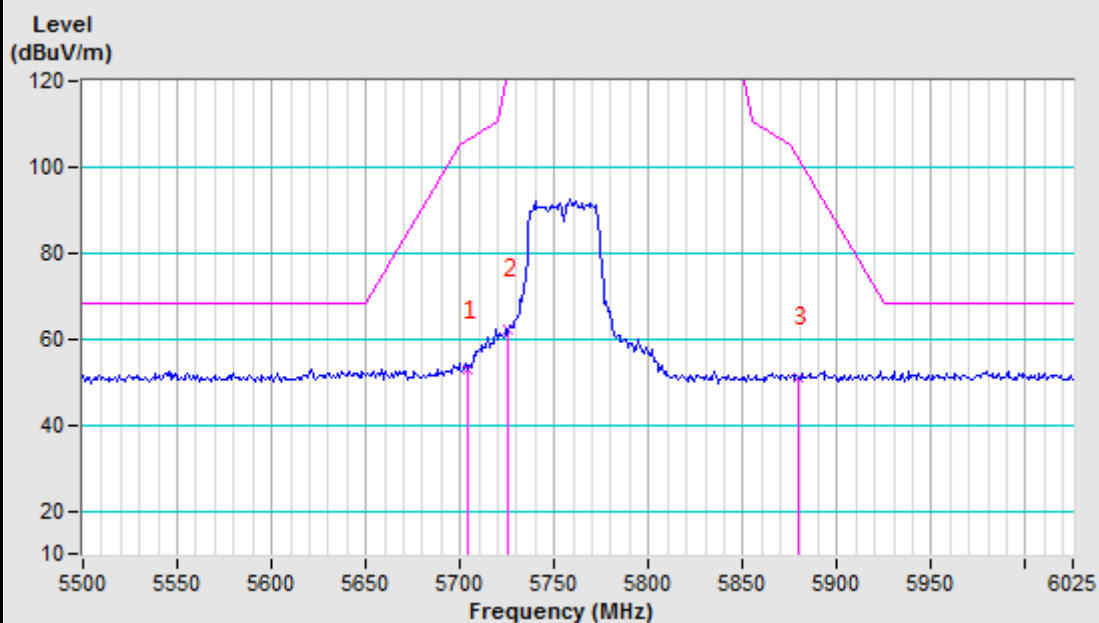
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5703.97	52.75 PK	106.31	-53.56	1.00 H	0	42.87	9.88
2	#5725.00	62.43 PK	122.20	-59.77	1.00 H	0	52.47	9.96
3	*5755.00	91.80 PK			1.00 H	25	81.73	10.07
4	*5755.00	73.11 AV			1.00 H	25	63.04	10.07
5	#5879.45	51.17 PK	101.90	-50.73	1.00 H	0	40.64	10.53
6	11510.00	57.56 PK	74.00	-16.44	1.00 H	0	37.03	20.53
7	11510.00	45.88 AV	54.00	-8.12	1.00 H	0	25.35	20.53
8	#17265.00	63.39 PK	68.20	-4.81	1.00 H	0	36.04	27.35
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	#5711.54	64.57 PK	108.43	-43.86	1.00 V	0	54.66	9.91
2	#5725.00	65.45 PK	122.20	-56.75	1.00 V	0	55.49	9.96
3	*5755.00	96.93 PK			1.00 V	230	86.86	10.07
4	*5755.00	77.03 AV			1.00 V	230	66.96	10.07
5	#5928.25	51.30 PK	68.20	-16.90	1.00 V	0	40.59	10.71
6	11510.00	57.06 PK	74.00	-16.94	1.00 V	0	36.53	20.53
7	11510.00	47.10 AV	54.00	-6.90	1.00 V	0	26.57	20.53
8	#17265.00	64.05 PK	68.20	-4.15	1.00 V	0	36.70	27.35

REMARKS:

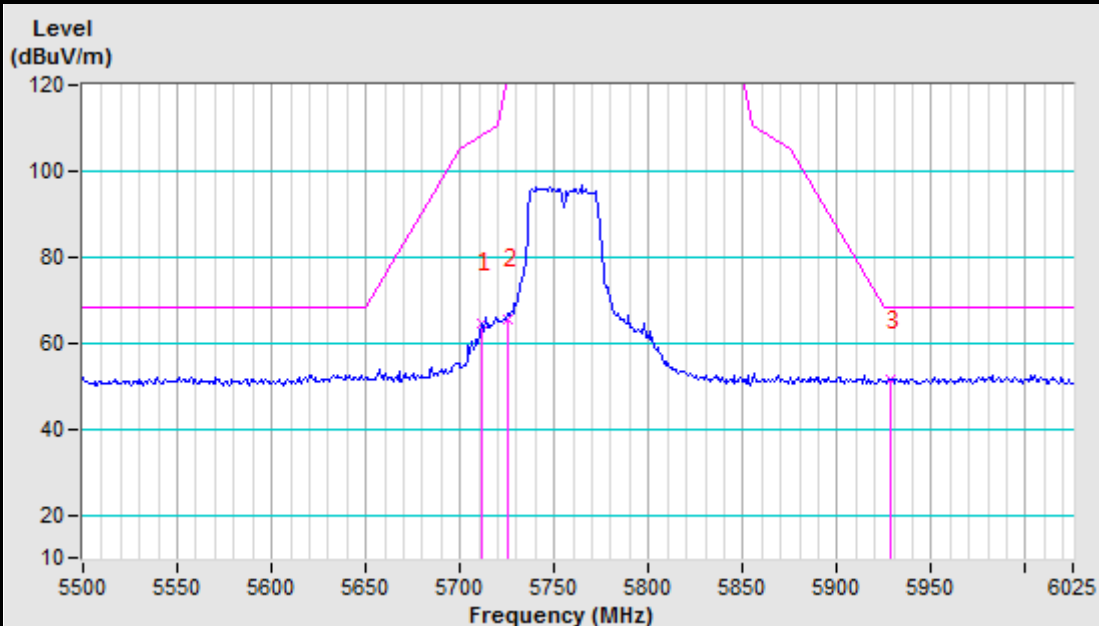
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The emission levels of other frequencies were greater than 20dB margin.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

Band edge Plot

5755MHz Horizontal



5755MHz Vertical



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

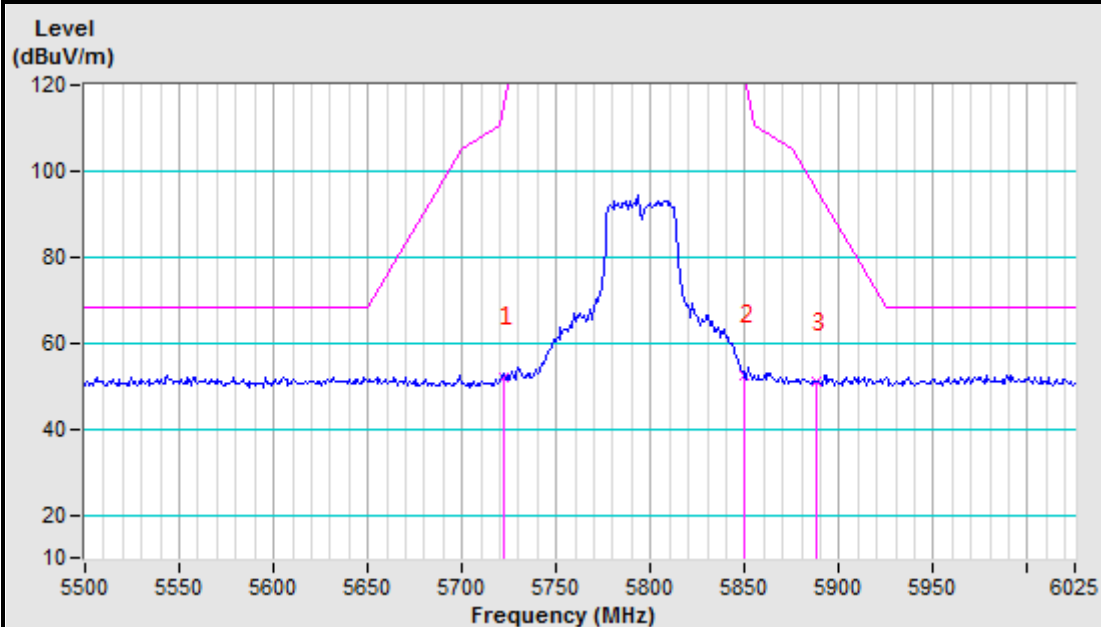
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5721.63	51.96 PK	114.53	-62.57	1.00 H	0	42.02	9.94
2	*5795.00	93.11 PK			1.00 H	30	82.89	10.22
3	*5795.00	74.80 AV			1.00 H	30	64.58	10.22
4	#5850.00	52.59 PK	122.20	-69.61	1.00 H	0	42.17	10.42
5	#5887.86	50.79 PK	95.65	-44.86	1.00 H	0	40.23	10.56
6	11590.00	57.62 PK	74.00	-16.38	1.00 H	10	36.91	20.71
7	11590.00	46.60 AV	54.00	-7.40	1.00 H	10	25.89	20.71
8	#17385.00	62.50 PK	68.20	-5.70	1.00 H	0	35.00	27.50
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	#5649.28	51.04 PK	68.20	-17.16	1.00 V	0	41.36	9.68
2	*5795.00	97.90 PK			1.00 V	24	87.68	10.22
3	*5795.00	78.63 AV			1.00 V	24	68.41	10.22
4	#5850.00	54.28 PK	122.20	-67.92	1.00 V	0	43.86	10.42
5	#5887.86	51.27 PK	95.65	-44.38	1.00 V	0	40.71	10.56
6	11590.00	58.05 PK	74.00	-15.95	1.00 V	0	37.34	20.71
7	11590.00	47.10 AV	54.00	-6.90	1.00 V	0	26.39	20.71
8	#17385.00	63.24 PK	68.20	-4.96	1.00 V	0	35.74	27.50

REMARKS:

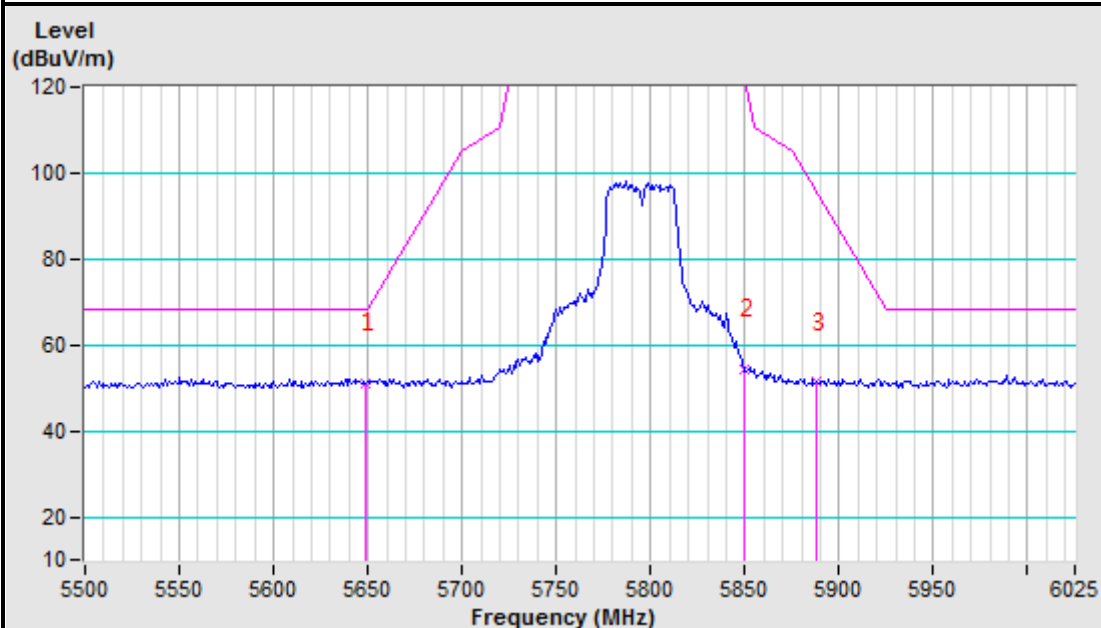
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The emission levels of other frequencies were greater than 20dB margin.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

Band edge Plot

5795MHz Horizontal



5795MHz Vertical



802.11ac 80MHz

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

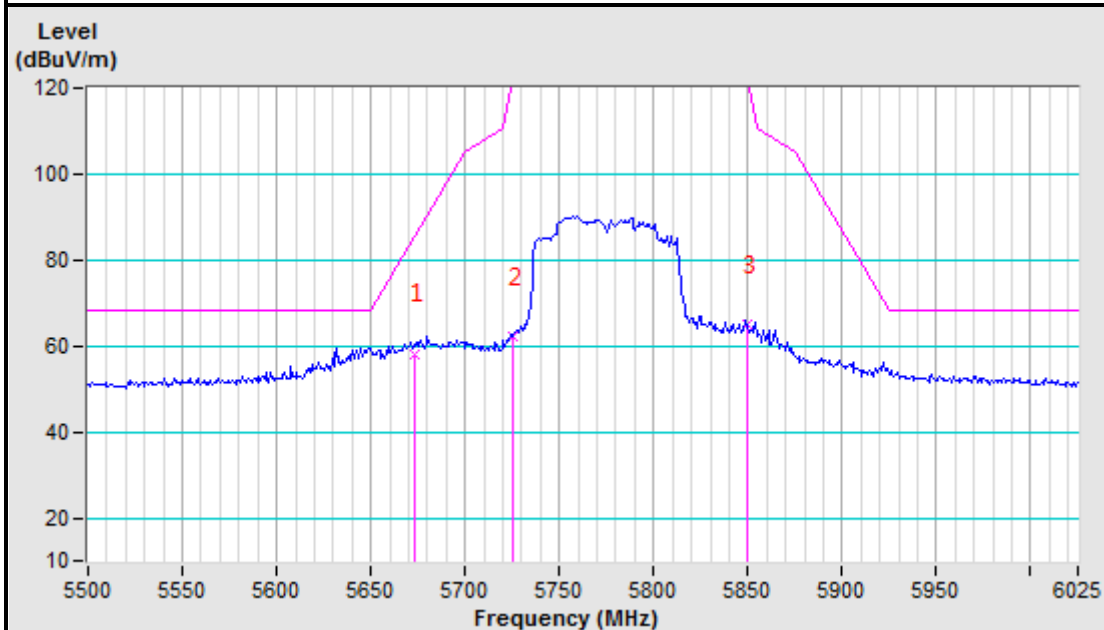
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5672.84	57.96 PK	85.14	-27.18	1.00 H	0	48.19	9.77
2	#5725.00	62.00 PK	122.20	-60.20	1.00 H	0	52.04	9.96
3	*5775.00	90.18 PK			1.00 H	0	80.04	10.14
4	*5775.00	72.59 AV			1.00 H	0	62.45	10.14
5	#5850.00	64.85 PK	122.20	-57.35	1.00 H	0	54.43	10.42
6	11550.00	57.64 PK	74.00	-16.36	1.00 H	0	37.02	20.62
7	11550.00	45.50 AV	54.00	-8.50	1.00 H	0	24.88	20.62
8	#17325.00	63.30 PK	68.20	-4.90	1.00 H	0	35.87	27.43
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	#5725.00	64.80 PK	122.20	-57.40	1.00 V	0	54.84	9.96
2	*5775.00	94.48 PK			1.00 V	20	84.34	10.14
3	*5775.00	76.29 AV			1.00 V	20	66.15	10.14
4	#5850.00	67.98 PK	122.20	-54.22	1.00 V	0	57.56	10.42
5	#5856.73	66.02 PK	110.31	-44.29	1.00 V	0	55.57	10.45
6	11550.00	57.36 PK	74.00	-16.64	1.00 V	0	36.74	20.62
7	11550.00	46.20 AV	54.00	-7.80	1.00 V	0	25.58	20.62
8	#17325.00	62.93 PK	68.20	-5.27	1.00 V	0	35.50	27.43

REMARKS:

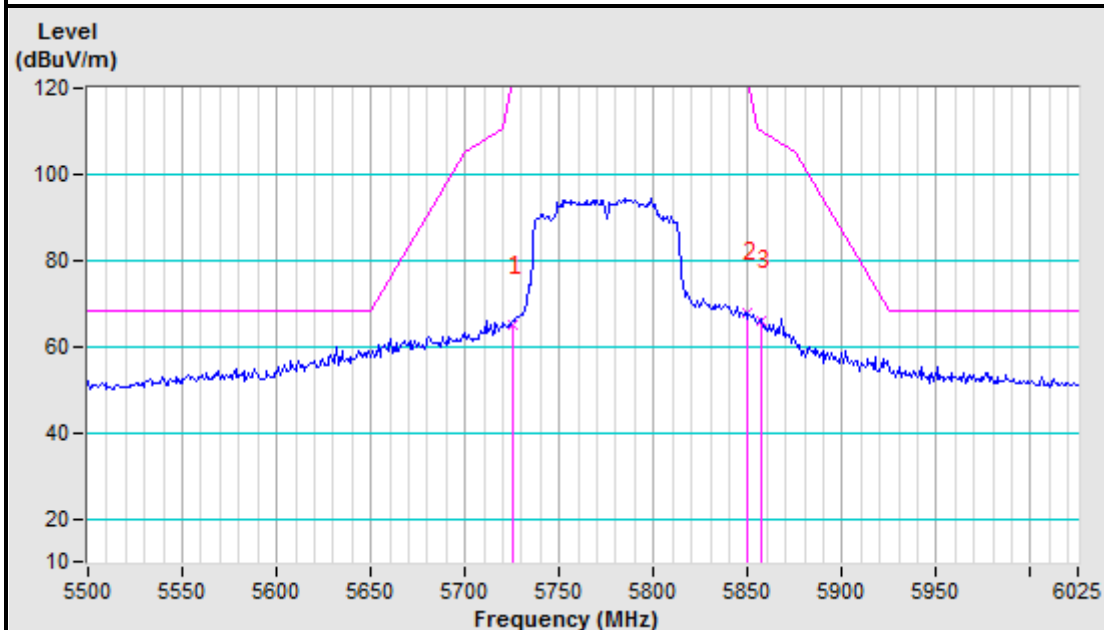
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The emission levels of other frequencies were greater than 20dB margin.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

Band edge Plot

5775MHz Horizontal



5775MHz Vertical



3.2 CONDUCTED EMISSION MEASUREMENT

3.2.1 LIMITS OF CONDUCTED EMISSION MEASUREMENT

FREQUENCY OF EMISSION (MHz)	CONDUCTED LIMIT (dB μ V)	
	Quasi-peak	Average
0.15 ~ 0.5	66 to 56	56 to 46
0.5 ~ 5	56	46
5 ~ 30	60	50

- NOTES:**
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.
 3. All emanations from a class A/B digital device or system, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified above.

3.2.2 TEST INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial No.	Next Cal.
EMI Test Receiver	Rohde&Schwarz	ESR7	101494	Mar. 17,21
Artificial Mains Network	Rohde&Schwarz	ENV216	101173	Mar. 17,21
Artificial Mains Network	Rohde&Schwarz	ESH3-Z5	100317	Mar. 17,21
Voltage probe	SCHWARZBECK	TK 9421	TK 9421-176	Sep. 17,21
Test software	ADT	ADT_Cond_V7.3.7	N/A	N/A

- NOTES:**
1. The test was performed in shielded room 553.
 2. The calibration interval of the above test instruments is 12 months. And the calibrations are traceable to CEPREI/CHINA, GREGT/CHINA and NIM/CHINA.

3.2.3 TEST PROCEDURES

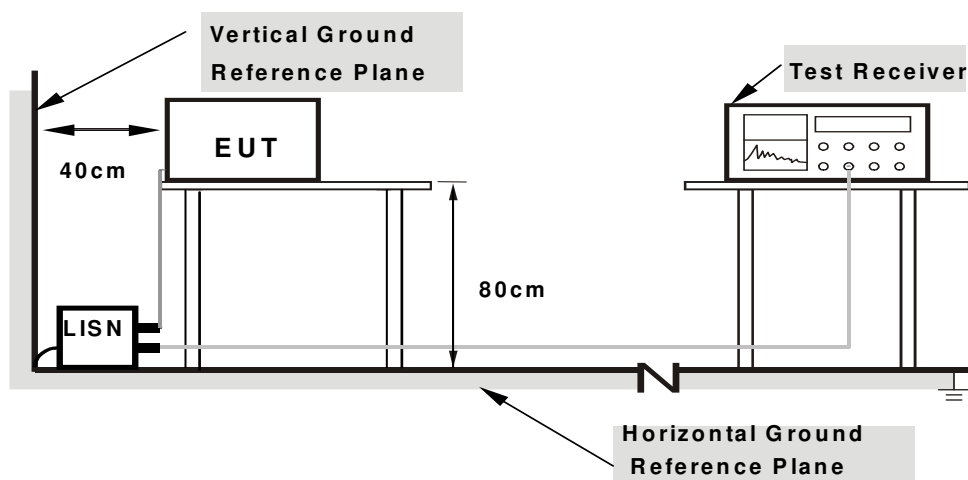
- The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling impedance 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) were not recorded.

NOTE: All modes of operation were investigated and the worst-case emissions are reported.

3.2.4 DEVIATION FROM TEST STANDARD

No deviation.

3.2.5 TEST SETUP



Note: 1.Support units were connected to second LISN.
2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes

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

3.2.6 EUT OPERATING CONDITIONS

Same as 3.1.7

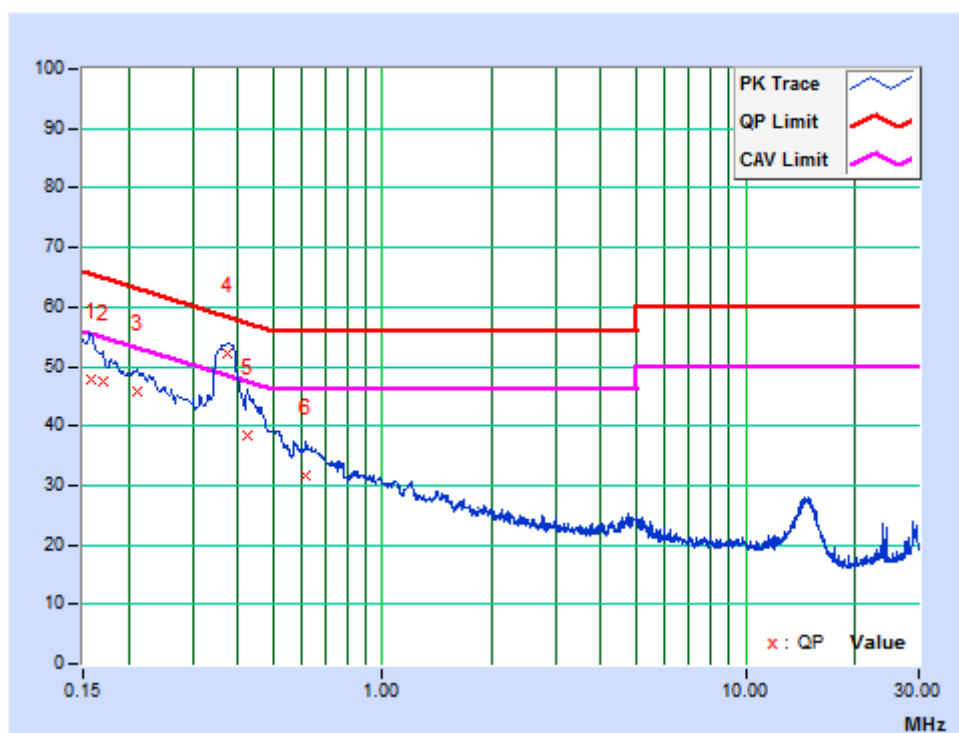
3.2.7 TEST RESULTS

CONDUCTED WORST-CASE DATA: 802.11a CH36

PHASE	Line	6dB BANDWIDTH	9kHz
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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	0.15715	9.77	37.94	24.32	47.71	34.09	65.61	55.61	-17.90	-21.52
2	0.16966	9.77	37.74	23.34	47.51	33.11	64.98	54.98	-17.47	-21.87
3	0.21075	9.78	35.94	24.34	45.72	34.12	63.18	53.18	-17.45	-19.05
4	0.37263	9.84	42.36	34.15	52.20	43.99	58.44	48.44	-6.24	-4.45
5	0.42450	9.85	28.40	15.68	38.25	25.53	57.36	47.36	-19.10	-21.82
6	0.61539	9.84	21.77	10.08	31.61	19.92	56.00	46.00	-24.39	-26.08

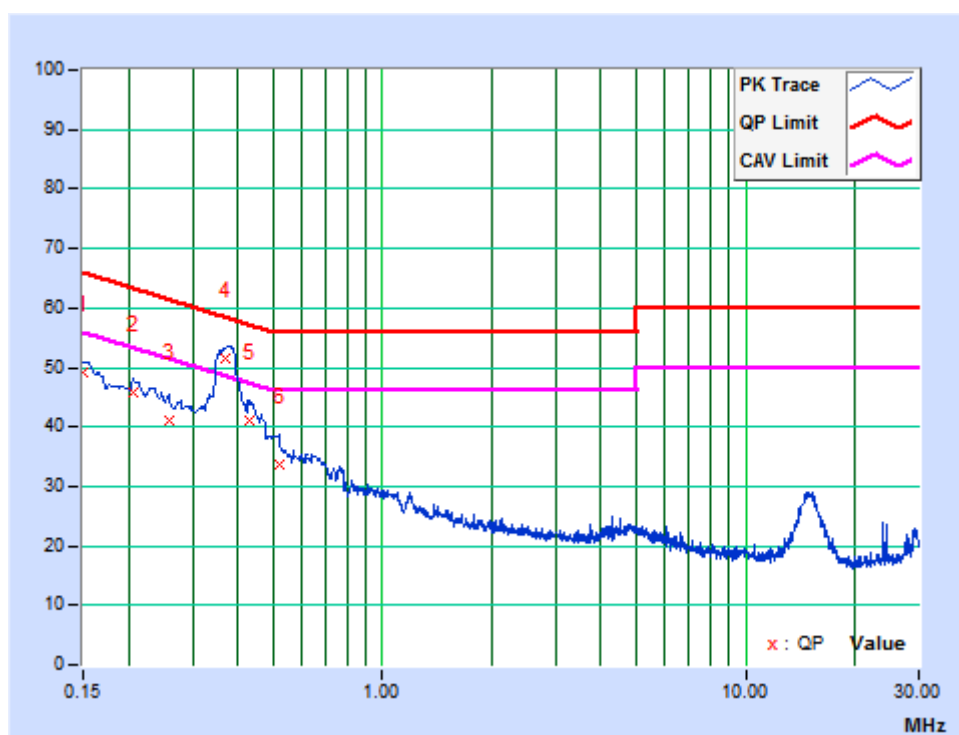
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. The emission levels of other frequencies were very low against the limit.
 3. Margin value = Emission level - Limit value
 4. Correction factor = Insertion loss + Cable loss
 5. Emission Level = Correction Factor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



PHASE	Neutral	6dB BANDWIDTH	9kHz
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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	9.70	39.38	23.26	49.08	32.96	66.00	56.00	-16.92	-23.04
2	0.20627	9.71	36.03	24.95	45.74	34.66	63.35	53.35	-17.61	-18.69
3	0.25748	9.74	31.29	19.49	41.03	29.23	61.51	51.51	-20.48	-22.28
4	0.36969	9.78	41.77	32.51	51.55	42.29	58.51	48.51	-6.95	-6.21
5	0.42900	9.80	31.21	15.60	41.01	25.40	57.27	47.27	-16.26	-21.87
6	0.51834	9.81	23.71	13.09	33.52	22.90	56.00	46.00	-22.48	-23.10

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.



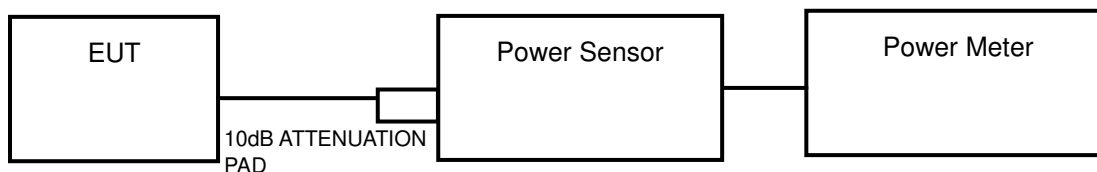
3.3 TRANSMIT POWER MEASUREMENT

3.3.1 LIMITS OF TRANSMIT POWER MEASUREMENT

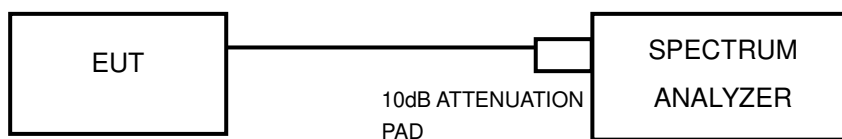
Operation Band	EUT Category		LIMIT
U-NII-1		Outdoor Access Point	1 Watt (30 dBm) (Max. e.i.r.p $\leq$ 125mW(21 dBm) at any elevation angle above 30 degrees as measured from the horizon)
		Fixed point-to-point Access Point	1 Watt (30 dBm)
		Indoor Access Point	1 Watt (30 dBm)
	√	Mobile and Portable client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

NOTE: 1. Where B is the 26dB emission bandwidth in MHz.

3.3.2 TEST SETUP



FOR 6/26dB BANDWIDTH



3.3.3 TEST INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial No.	Next Cal.
Power Sensor	Keysight	U2021XA	MY55060016	N/A
Power Sensor	Keysight	U2021XA	MY55060018	Jun. 03,21
Power Meter	Anritsu	ML2495A	1139001	Mar. 17,21
Power Sensor	Anritsu	MA2411B	1531155	Mar. 17,21
Digital Multimeter	FLUKE	15B	A1220010DG	N/A
Humid & Temp Programmable Tester	Haida	HD-225T	110807201	Oct. 30,20
Oscilloscope	Agilent	DSO9254A	MY51260160	Aug. 10,21
Signal and Spectrum Analyzer	Rohde&Schwarz	FSV40	101094	Mar. 17,21
Signal Generator	Agilent	N5183A	MY50140980	Aug. 10,21
MXG-B RF Vector Signal Generator	Keysight	N5182B	MY56200288	Sep. 04,21
Attenuator	MINI	BW-S10W2+	S130129FGE2	N/A
DC Source	Keysight	E3642A	MY56146098	N/A

NOTES:

1. The test was performed in RF Oven room.
2. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to CEPREI/CHINA, GRGT/CHINA and NIM/CHINA.

3.3.4 TEST PROCEDURE

FOR AVERAGE POWER MEASUREMENT

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.

FOR 26dB BANDWIDTH

- 1) Set RBW = approximately 1% of the emission bandwidth.
- 2) Set the VBW > RBW.
- 3) Detector = RMS.
- 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%.

FOR 6dB BANDWIDTH

- 1) Set RBW = 100 kHz.
- 2) Set the video bandwidth (VBW) ≥ 3 RBW.
- 3) Detector = Peak.
- 4) Trace mode = max hold.
- 5) Sweep = auto couple.
- 6) Allow the trace to stabilize.
- 7) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

3.3.5 DEVIATION FROM TEST STANDARD

No deviation.

3.3.6 EUT OPERATING CONDITIONS

The software provided by client to enable the EUT under transmission condition continuously at specific channel frequencies individually.

3.3.7 TEST RESULTS

OUTPUT POWER:

802.11a

CHANNEL NUMBER	FREQ. (MHz)	AVG. CONDUCTED POWER (dBm)	AVG. CONDUCTED POWER (mW)	LIMIT (dBm)	PASS /FAIL
36	5180	16.95	49.545	24.00	PASS
40	5200	16.67	46.452	24.00	PASS
48	5240	16.51	44.771	24.00	PASS
52	5260	16.48	44.463	24.00	PASS
60	5300	16.58	45.499	24.00	PASS
64	5320	16.41	43.752	24.00	PASS
100	5500	16.57	45.394	24.00	PASS
116	5580	16.37	43.351	24.00	PASS
140	5700	16.56	45.290	24.00	PASS
149	5745	15.49	35.400	30.00	PASS
157	5785	15.29	33.806	30.00	PASS
165	5825	15.79	37.931	30.00	PASS

Note:

For 5260 ~ 5320MHz, 5500 ~ 5700MHz

1. $11\text{dBm} + 10\log(24.27) = 24.85\text{dBm} > 24\text{dBm}$
2. $11\text{dBm} + 10\log(25.02) = 24.98\text{dBm} > 24\text{dBm}$
3. $11\text{dBm} + 10\log(25.00) = 24.98\text{dBm} > 24\text{dBm}$
4. $11\text{dBm} + 10\log(24.27) = 24.85\text{dBm} > 24\text{dBm}$
5. $11\text{dBm} + 10\log(24.16) = 24.83\text{dBm} > 24\text{dBm}$
6. $11\text{dBm} + 10\log(24.37) = 24.87\text{dBm} > 24\text{dBm}$

802.11n (20MHz)

CHANNEL NUMBER	FREQ. (MHz)	AVG. CONDUCTED POWER (dBm)	AVG. CONDUCTED POWER (mW)	LIMIT (dBm)	PASS /FAIL
36	5180	16.83	48.195	24.00	PASS
40	5200	16.60	45.709	24.00	PASS
48	5240	16.81	47.973	24.00	PASS
52	5260	16.43	43.954	24.00	PASS
60	5300	16.52	44.875	24.00	PASS
64	5320	16.39	43.551	24.00	PASS
100	5500	16.55	45.186	24.00	PASS
116	5580	16.33	42.954	24.00	PASS
140	5700	16.46	44.259	24.00	PASS
149	5745	15.37	34.435	30.00	PASS
157	5785	15.27	33.651	30.00	PASS
165	5825	15.73	37.411	30.00	PASS

Note:

For 5260 ~ 5320MHz, 5500 ~ 5700MHz

1. $11\text{dBm} + 10\log(24.95) = 24.97\text{dBm} > 24\text{dBm}$
2. $11\text{dBm} + 10\log(25.14) = 25.00\text{dBm} > 24\text{dBm}$
3. $11\text{dBm} + 10\log(26.17) = 25.18\text{dBm} > 24\text{dBm}$
4. $11\text{dBm} + 10\log(24.79) = 24.94\text{dBm} > 24\text{dBm}$
5. $11\text{dBm} + 10\log(25.02) = 24.98\text{dBm} > 24\text{dBm}$
6. $11\text{dBm} + 10\log(24.47) = 24.89\text{dBm} > 24\text{dBm}$

802.11n (40MHz)

CHANNEL NUMBER	FREQ. (MHz)	AVG. CONDUCTED POWER (dBm)	AVG. CONDUCTED POWER (mW)	LIMIT (dBm)	PASS /FAIL
38	5190	13.32	21.478	24.00	PASS
46	5230	13.58	22.803	24.00	PASS
54	5270	13.13	20.559	24.00	PASS
62	5310	13.07	20.277	24.00	PASS
102	5510	13.16	20.701	24.00	PASS
110	5550	14.10	25.704	24.00	PASS
134	5670	13.72	23.550	24.00	PASS
151	5755	13.84	24.210	30.00	PASS
159	5795	13.75	23.714	30.00	PASS

Note:

For 5260 ~ 5320MHz, 5500 ~ 5700MHz

1. $11\text{dBm} + 10\log(45.15) = 27.55\text{dBm} > 24\text{dBm}$
2. $11\text{dBm} + 10\log(44.48) = 27.48\text{dBm} > 24\text{dBm}$
3. $11\text{dBm} + 10\log(44.64) = 27.50\text{dBm} > 24\text{dBm}$
4. $11\text{dBm} + 10\log(45.60) = 27.59\text{dBm} > 24\text{dBm}$
5. $11\text{dBm} + 10\log(45.49) = 27.58\text{dBm} > 24\text{dBm}$

802.11ac (80MHz)

CHANNEL NUMBER	FREQ. (MHz)	AVG. CONDUCTED POWER (dBm)	AVG. CONDUCTED POWER (mW)	LIMIT (dBm)	PASS /FAIL
42	5210	12.69	18.578	24.00	PASS
58	5290	13.53	22.542	24.00	PASS
106	5530	12.94	19.679	24.00	PASS
122	5610	13.18	20.797	24.00	PASS
155	5775	13.77	23.823	30.00	PASS

Note:

For 5260 ~ 5320MHz, 5500 ~ 5700MHz

$11\text{dBm} + 10\log(86.44) = 30.37\text{dBm} > 24\text{dBm}$

$11\text{dBm} + 10\log(86.25) = 30.36\text{dBm} > 24\text{dBm}$

$11\text{dBm} + 10\log(86.05) = 30.35\text{dBm} > 24\text{dBm}$

26dB BANDWIDTH:

802.11a

Channel Number	Freq. (MHz)	26dB DOWN BANDWIDTH (MHz)	PASS /FAIL
36	5180	24.47	PASS
40	5200	23.55	PASS
48	5240	23.24	PASS
52	5260	24.27	PASS
60	5300	25.02	PASS
64	5320	25.00	PASS
100	5500	24.27	PASS
116	5580	24.16	PASS
140	5700	24.37	PASS

802.11n (20MHz)

Channel Number	Freq. (MHz)	26dB DOWN BANDWIDTH (MHz)	PASS /FAIL
36	5180	25.21	PASS
40	5200	24.75	PASS
48	5240	25.78	PASS
52	5260	24.95	PASS
60	5300	25.14	PASS
64	5320	26.17	PASS
100	5500	24.79	PASS
116	5580	25.02	PASS
140	5700	24.47	PASS

802.11n (40MHz)

Channel Number	Freq. (MHz)	26dB DOWN BANDWIDTH (MHz)	PASS /FAIL
38	5190	45.96	PASS
46	5230	45.70	PASS
54	5270	45.15	PASS
62	5310	44.48	PASS
102	5510	44.64	PASS
110	5550	45.60	PASS
134	5670	45.49	PASS

802.11ac (80MHz)

Channel Number	Freq. (MHz)	26dB DOWN BANDWIDTH (MHz)	PASS /FAIL
42	5210	84.13	PASS
58	5290	86.44	PASS
106	5530	86.25	PASS
122	5610	86.05	PASS

6dB BANDWIDTH For 5725-5850MHz

802.11a

Channel Number	Freq. (MHz)	6dB DOWN BANDWIDTH (MHz)	PASS /FAIL
149	5745	16.41	PASS
157	5785	16.40	PASS
165	5825	16.42	PASS

802.11n (20M)

Channel Number	Freq. (MHz)	6dB DOWN BANDWIDTH (MHz)	PASS /FAIL
149	5745	17.66	PASS
157	5785	17.64	PASS
165	5825	17.63	PASS

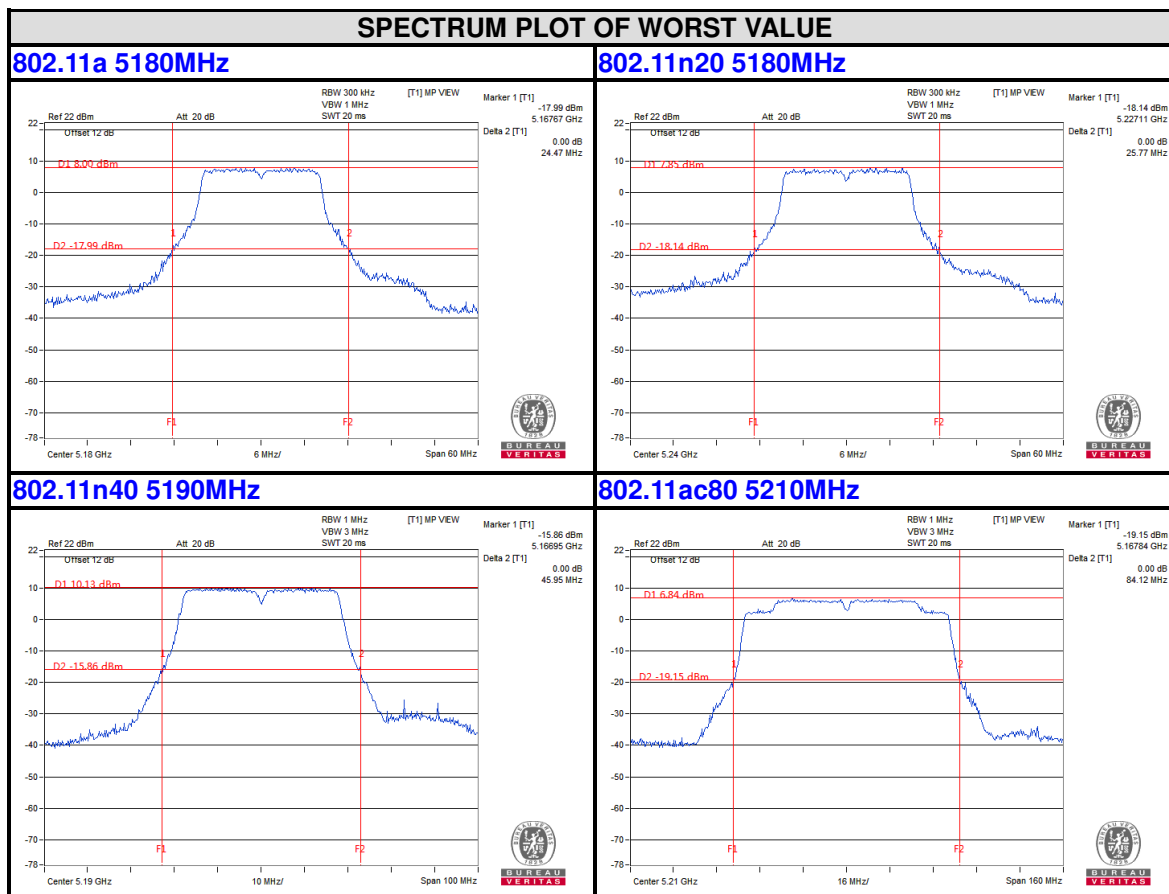
802.11n (40M)

Channel Number	Freq. (MHz)	6dB DOWN BANDWIDTH (MHz)	PASS /FAIL
151	5755	36.47	PASS
159	5795	36.47	PASS

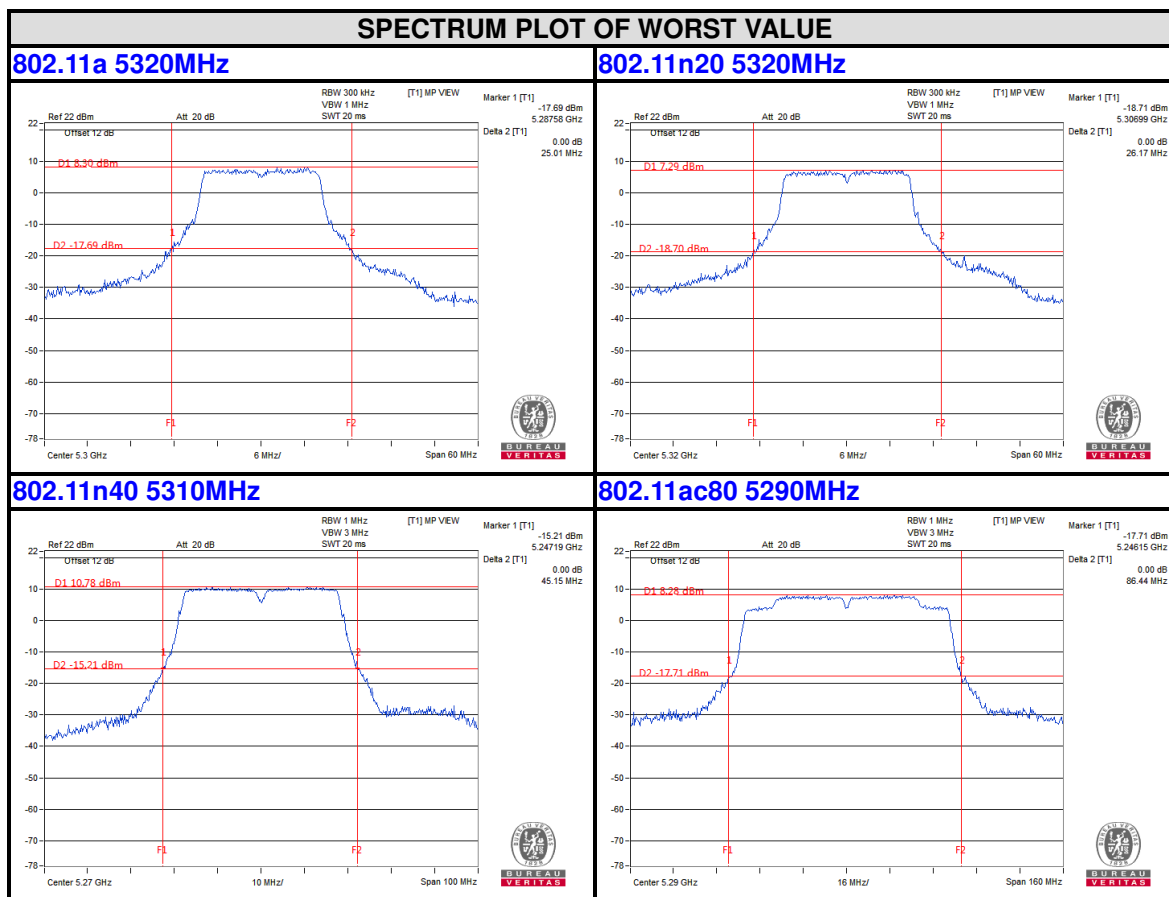
802.11ac (80MHz)

Channel Number	Freq. (MHz)	6dB DOWN BANDWIDTH (MHz)	PASS /FAIL
155	5775	75.37	PASS

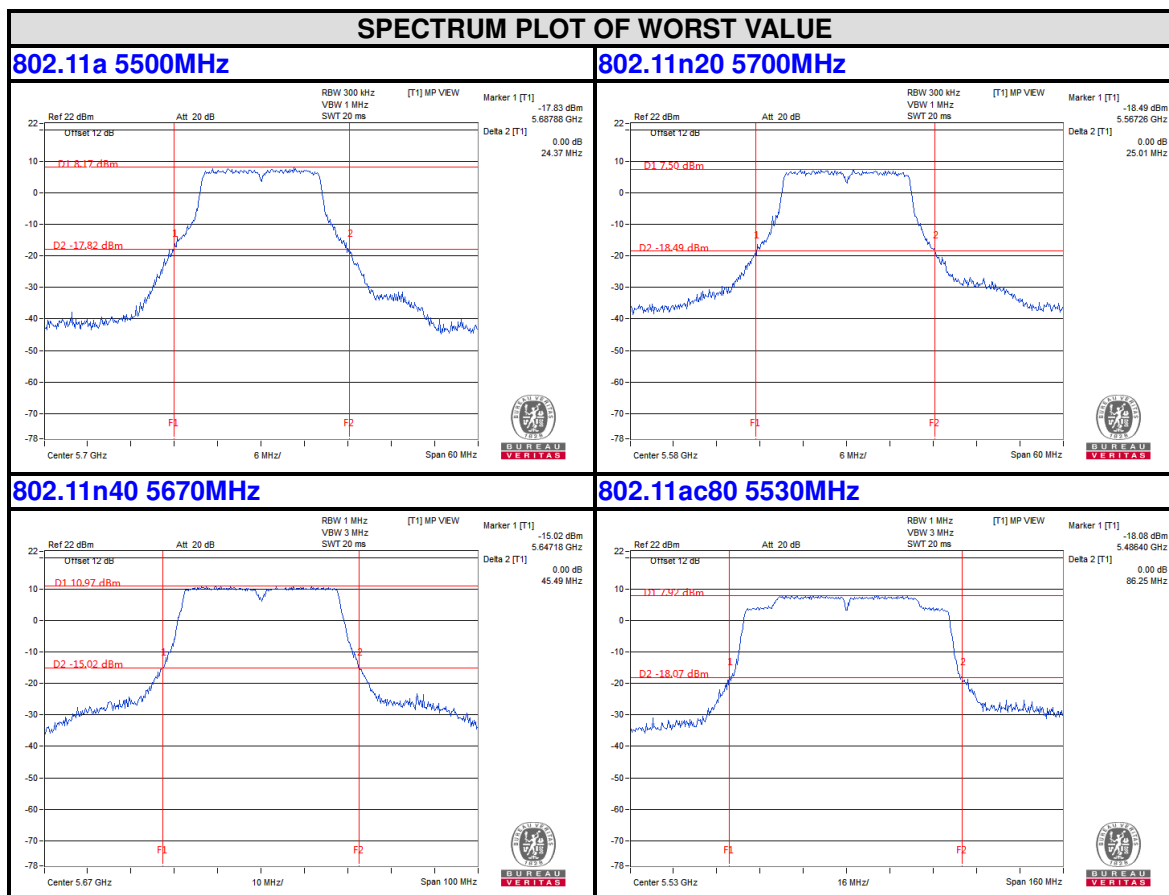
**26dB bandwidth Test Plot
For 5150-5250MHz**



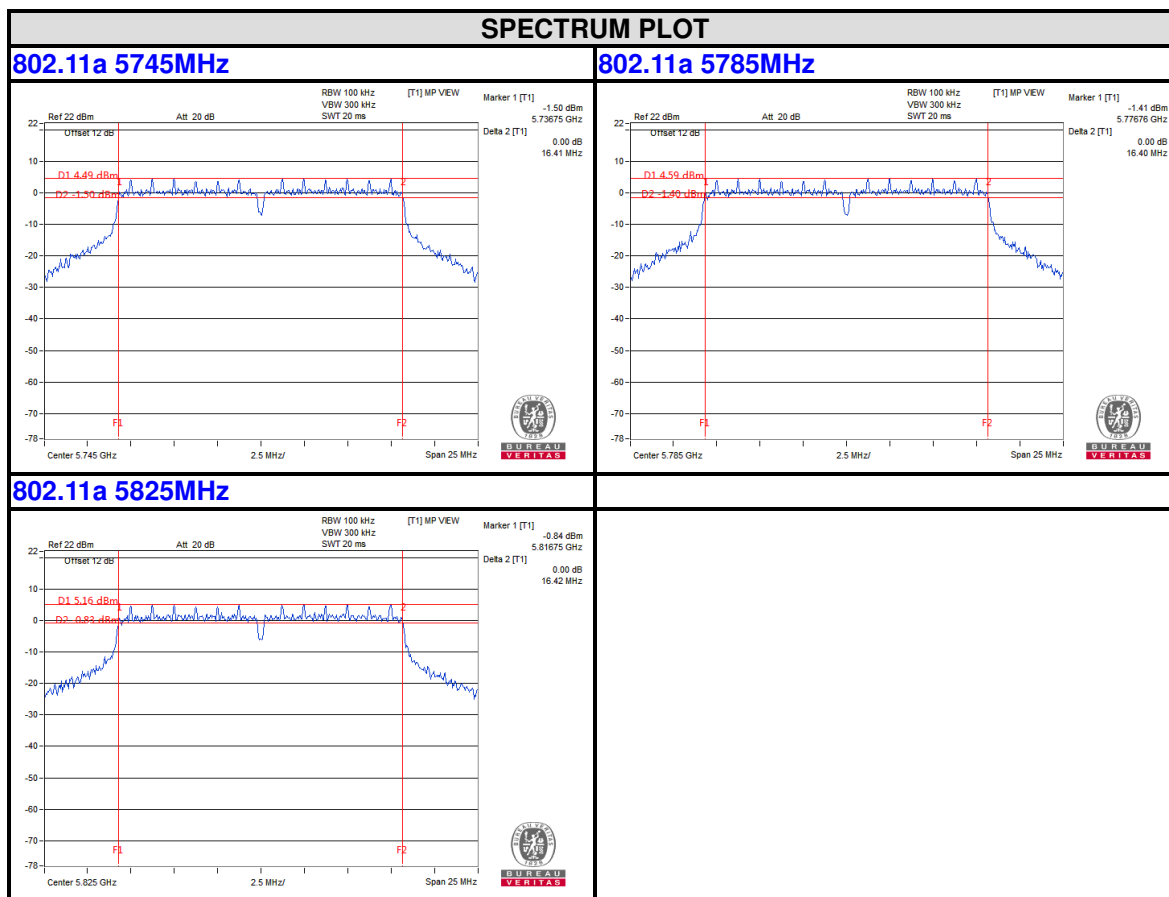
For 5250-5350MHz

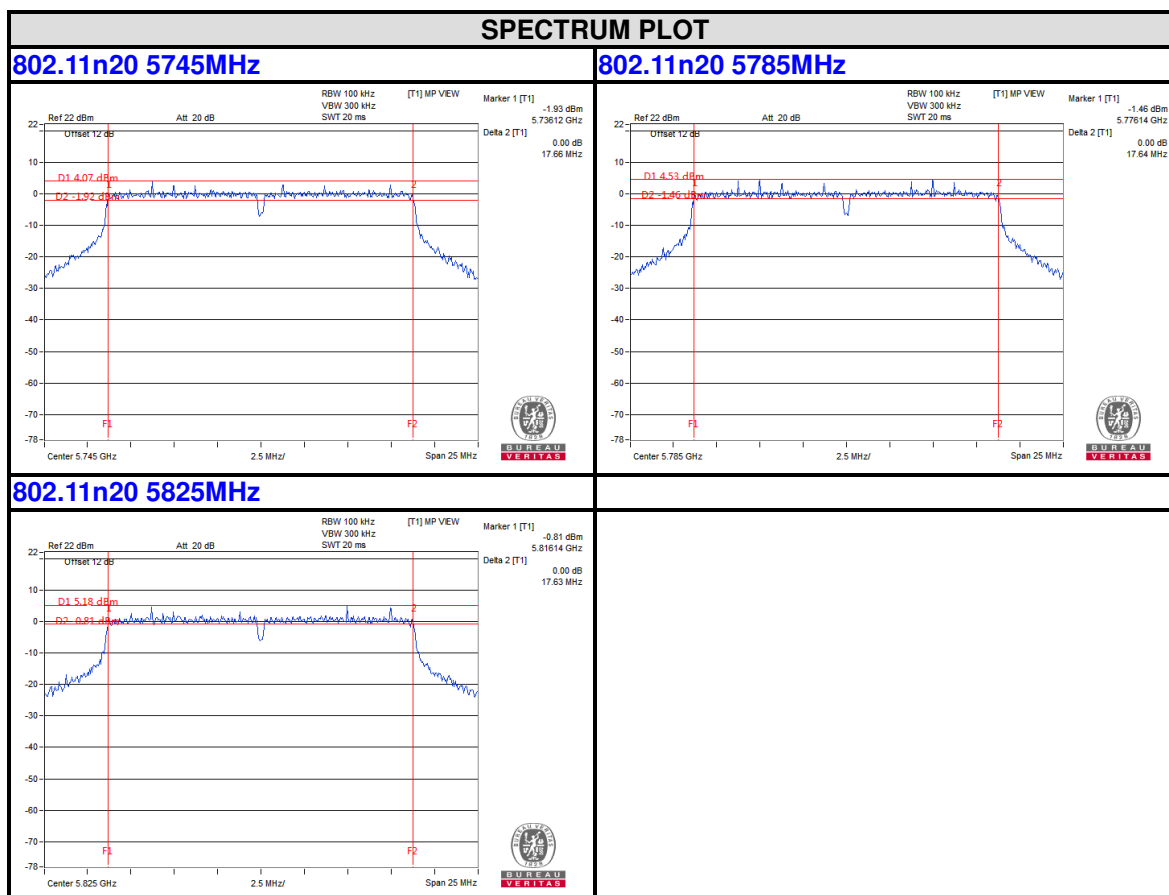


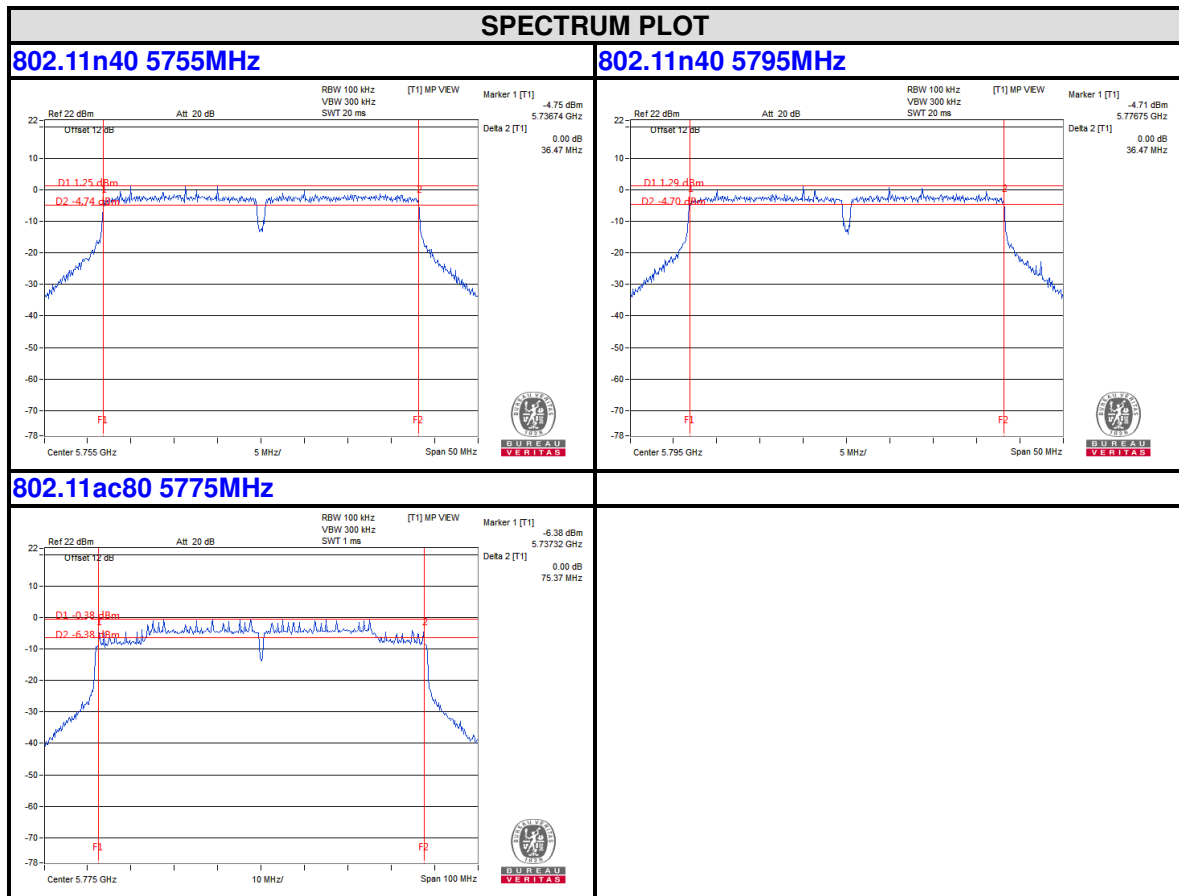
For 5470-5725MHz



6dB BANDWIDTH For 5725-5850MHz





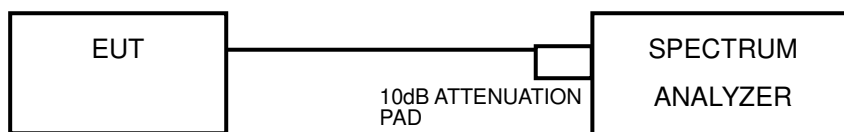


3.4 PEAK POWER SPECTRAL DENSITY MEASUREMENT

3.4.1 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	11dBm/ MHz
U-NII-2A	√		11dBm/ MHz
U-NII-2C	√		11dBm/ MHz
U-NII-3	√		30dBm/ 500kHz

3.4.2 TEST SETUP



3.4.3 TEST INSTRUMENTS

Refer to section 3.3.3 to get information of above instrument.

3.4.4 TEST PROCEDURES

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

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/duty cycle)

For U-NII-3 band:

Using method SA-2

- 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) 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/duty cycle)

3.4.5 DEVIATION FROM TEST STANDARD

No deviation.

3.4.6 EUT OPERATING CONDITIONS

Same as 3.3.6

3.4.7 TEST RESULTS

For U-NII-1, U-NII-2A & U-NII-2C, For U-NII-3:

802.11a

Channel	Frequency (MHz)	PSD W/O Duty Factor (dBm/MHz)	Duty Factor (dB)	PSD with Duty Factor (dBm/MHz)	MAX. Limit (dBm)	PASS / FAIL
36	5180	2.87	0.092	2.962	11.00	PASS
40	5200	2.58	0.092	2.672	11.00	PASS
48	5240	2.43	0.092	2.522	11.00	PASS
52	5260	2.42	0.092	2.512	11.00	PASS
60	5300	2.60	0.092	2.692	11.00	PASS
64	5320	2.45	0.092	2.542	11.00	PASS
100	5500	2.65	0.092	2.742	11.00	PASS
116	5580	2.58	0.092	2.672	11.00	PASS
140	5700	2.59	0.092	2.682	11.00	PASS

Note: Refer to section 2.3 for duty cycle spectrum plot.

Chan.	Freq. (MHz)	PSD (dBm/300kHz)	PSD (dBm/500kHz)	Duty Factor (dB)	Total PSD (dBm/500k Hz)	Limit (dBm/500kHz)	PASS / FAIL
149	5745	-6.64	-4.42	0.092	-4.328	30.00	PASS
157	5785	-6.62	-4.40	0.092	-4.308	30.00	PASS
165	5825	-6.09	-3.87	0.092	-3.778	30.00	PASS

Note: Refer to section 2.3 for duty cycle spectrum plot.

802.11n (20MHz)

Channel	Frequency (MHz)	PSD W/O Duty Factor (dBm/MHz)	Duty Factor (dB)	PSD with Duty Factor (dBm/MHz)	MAX. Limit (dBm)	PASS / FAIL
36	5180	3.12	0.022	3.142	11.00	PASS
40	5200	2.29	0.022	2.312	11.00	PASS
48	5240	2.57	0.022	2.592	11.00	PASS
52	5260	2.46	0.022	2.482	11.00	PASS
60	5300	2.23	0.022	2.252	11.00	PASS
64	5320	2.10	0.022	2.122	11.00	PASS
100	5500	2.39	0.022	2.412	11.00	PASS
116	5580	2.23	0.022	2.252	11.00	PASS
140	5700	2.36	0.022	2.382	11.00	PASS

Note: Refer to section 2.3 for duty cycle spectrum plot.

Chan.	Freq. (MHz)	PSD (dBm/300kHz)	PSD (dBm/500kHz)	Duty Factor (dB)	Total PSD (dBm/500kHz)	Limit (dBm/500kHz)	PASS / FAIL
149	5745	-7.01	-4.79	0.022	-4.768	30.00	PASS
157	5785	-6.98	-4.76	0.022	-4.738	30.00	PASS
165	5825	-6.55	-4.33	0.022	-4.308	30.00	PASS

Note: Refer to section 2.3 for duty cycle spectrum plot.

802.11n (40MHz)

Channel	Frequency (MHz)	PSD W/O Duty Factor (dBm/MHz)	Duty Factor (dB)	PSD with Duty Factor (dBm/MHz)	MAX. Limit (dBm)	PASS / FAIL
38	5190	-0.92	0.731	-0.189	11.00	PASS
46	5230	-0.76	0.731	-0.029	11.00	PASS
54	5270	-0.78	0.731	-0.049	11.00	PASS
62	5310	-2.18	0.731	-1.449	11.00	PASS
102	5510	-1.87	0.731	-1.139	11.00	PASS
118	5590	-0.67	0.731	0.061	11.00	PASS
134	5670	-0.55	0.731	0.181	11.00	PASS

Note: Refer to section 2.3 for duty cycle spectrum plot.

Chan.	Freq. (MHz)	PSD (dBm/300kHz)	PSD (dBm/500kHz)	Duty Factor (dB)	Total PSD (dBm/500k Hz)	Limit (dBm/500kHz)	PASS / FAIL
151	5755	-10.41	-8.19	0.731	-7.459	30.00	PASS
159	5795	-10.44	-8.22	0.731	-7.489	30.00	PASS

Note: Refer to section 2.3 for duty cycle spectrum plot.

802.11ac (80MHz)

Channel	Frequency (MHz)	PSD W/O Duty Factor (dBm/MHz)	Duty Factor (dB)	PSD with Duty Factor (dBm/MHz)	MAX. Limit (dBm)	PASS / FAIL
42	5210	-4.70	1.186	-3.514	11.00	PASS
58	5290	-3.36	1.186	-2.174	11.00	PASS
106	5530	-3.34	1.186	-2.154	11.00	PASS
122	5610	-2.81	1.186	-1.624	11.00	PASS

Note: Refer to section 2.3 for duty cycle spectrum plot.

Chan.	Freq. (MHz)	PSD (dBm/300kHz)	PSD (dBm/500kHz)	Duty Factor (dB)	Total PSD (dBm/500kHz)	Limit (dBm/500kHz)	PASS / FAIL
155	5775	-12.93	-10.71	1.186	-9.524	30.00	PASS

Note: Refer to section 2.3 for duty cycle spectrum plot.



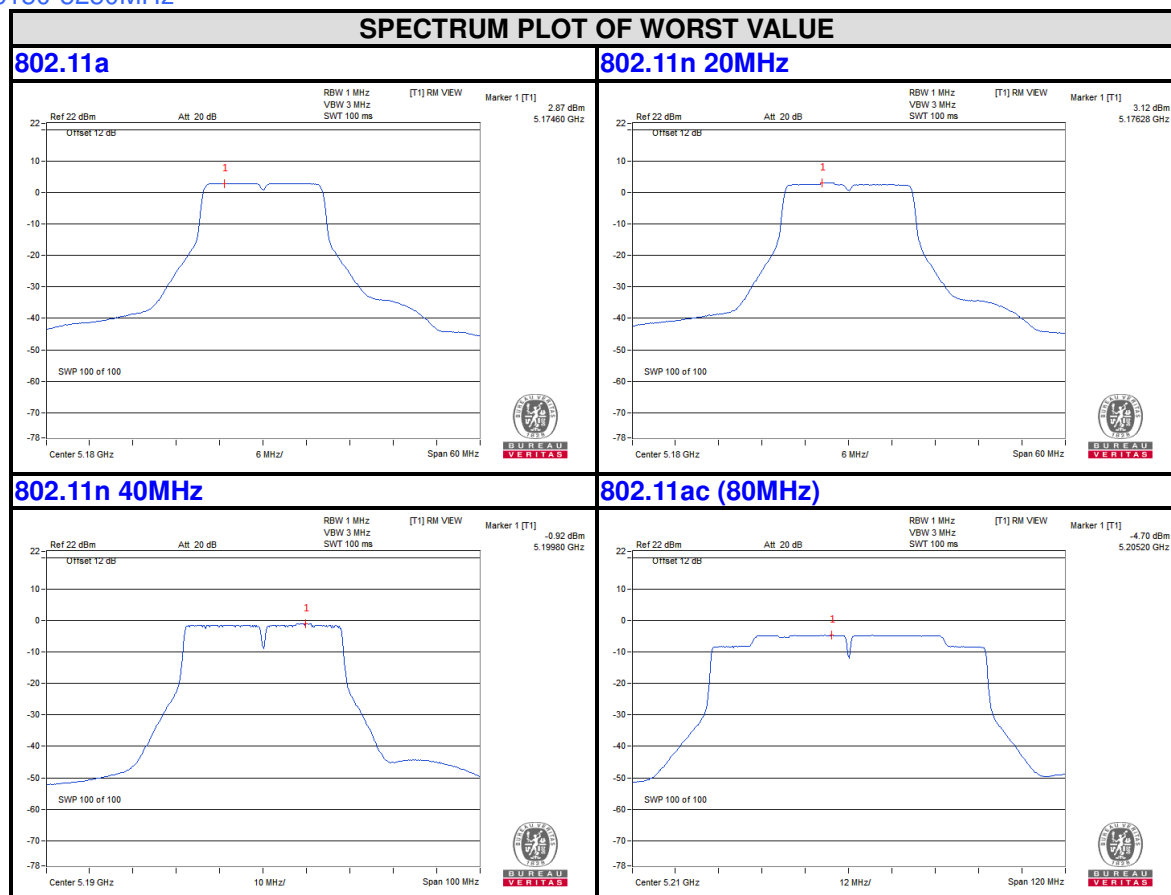
BUREAU
VERITAS

Test Report No.: RF2008WDG0053-4

PSD Test Plot

BAND 1

5150-5250MHz

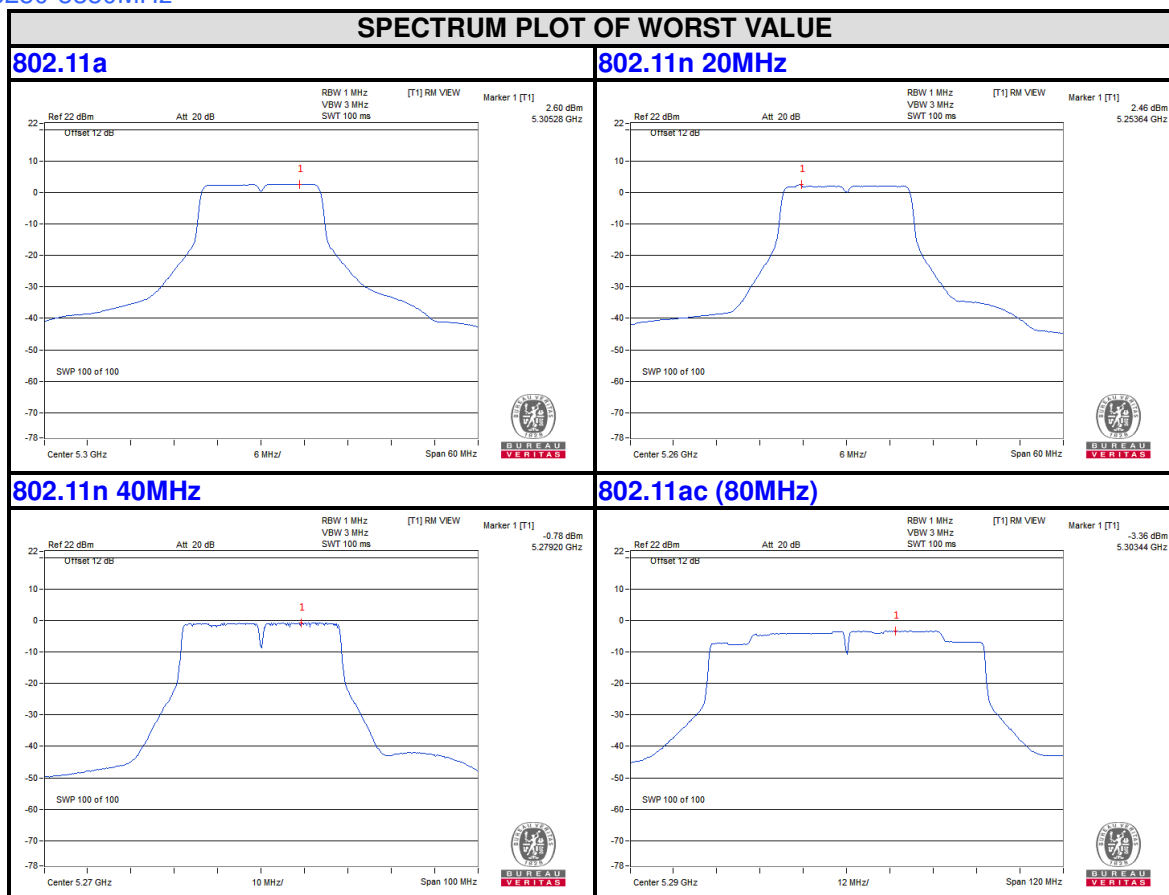




BUREAU
VERITAS

Test Report No.: RF2008WDG0053-4

BAND 2
5250-5350MHz

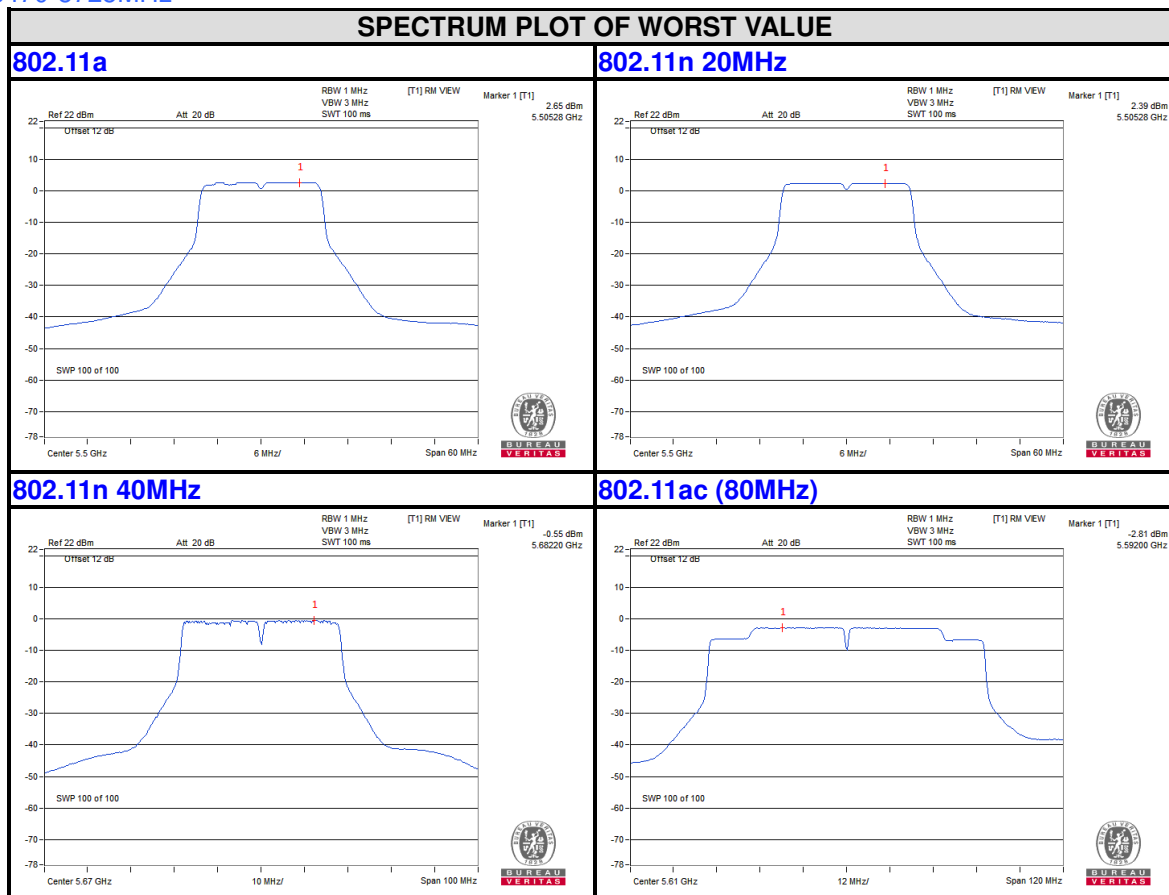


Bureau Veritas Shenzhen Co., Ltd.
Dongguan Branch

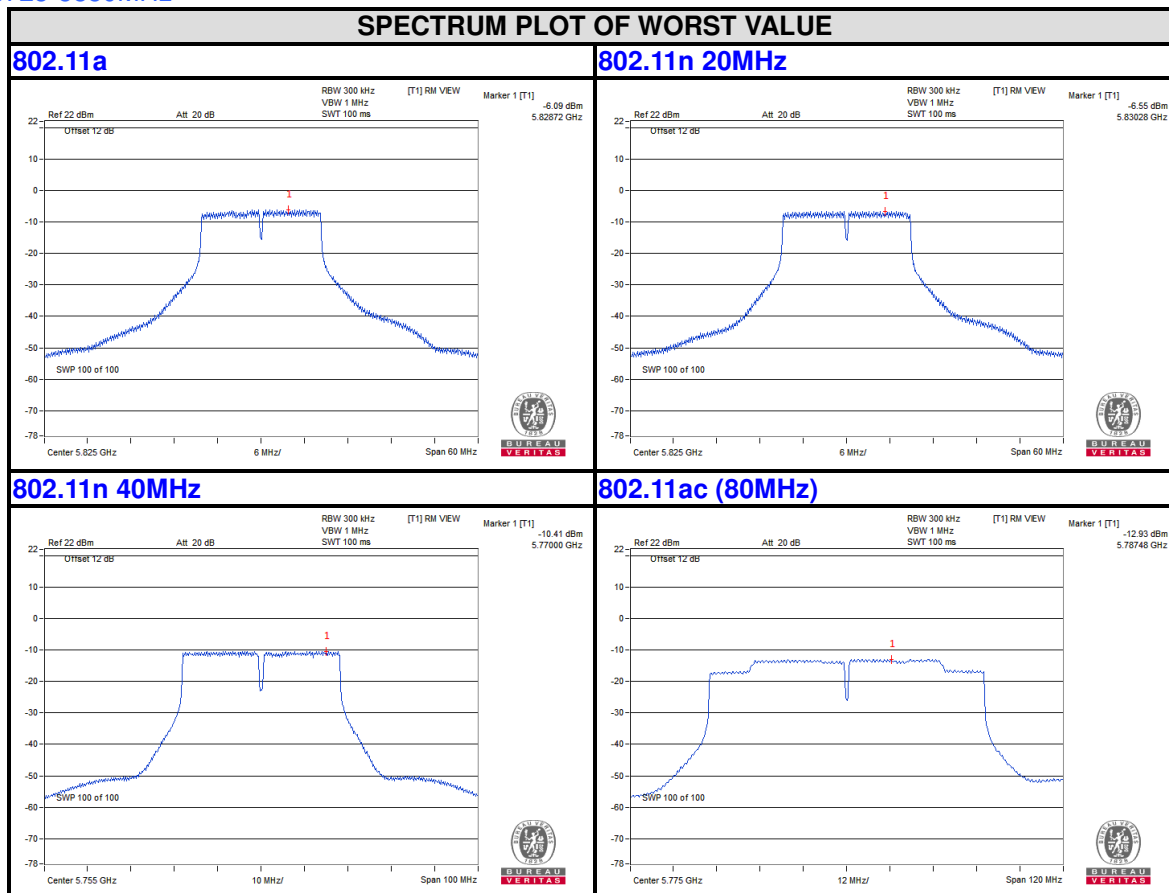
No. 96, Guantai Road (Houjie Section), Houjie
Town, Dongguan City, Guangdong Province.
523942, People's Republic of China.

Tel: +86 769 8998 2098
Fax: +86 769 8593 1080
Email: customerservice.dg@cn.bureauveritas.com

BAND 3
5470-5725MHz



BAND4
5725-5850MHz

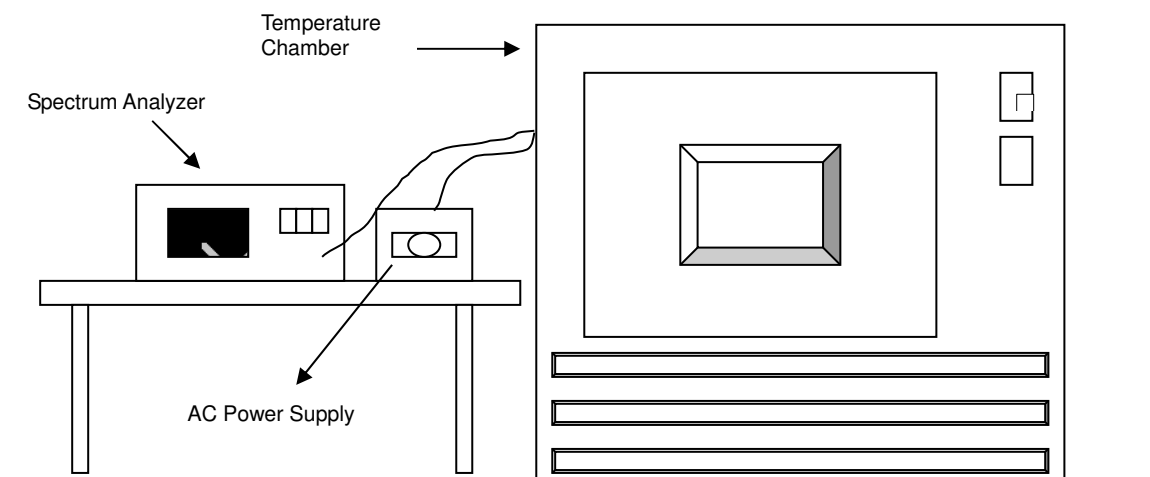


3.5 FREQUENCY STABILITY

3.5.1 LIMITS OF FREQUENCY STABILITY MEASUREMENT

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

3.5.2 TEST SETUP



3.5.3 TEST INSTRUMENTS

Refer to section 3.3.3 to get information of above instrument.

3.5.4 TEST PROCEDURE

- a. The EUT was placed inside the environmental test chamber and powered by nominal AC voltage.
- b. Turn the EUT on and couple its output to a spectrum analyzer.
- c. Turn the EUT off and set the chamber to the highest temperature specified.
- d. 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.
- e. Repeat step 2 and 3 with the temperature chamber set to the lowest temperature.
- f. 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.

3.5.5 DEVIATION FROM TEST STANDARD

No deviation.

3.5.6 EUT OPERATING CONDITION

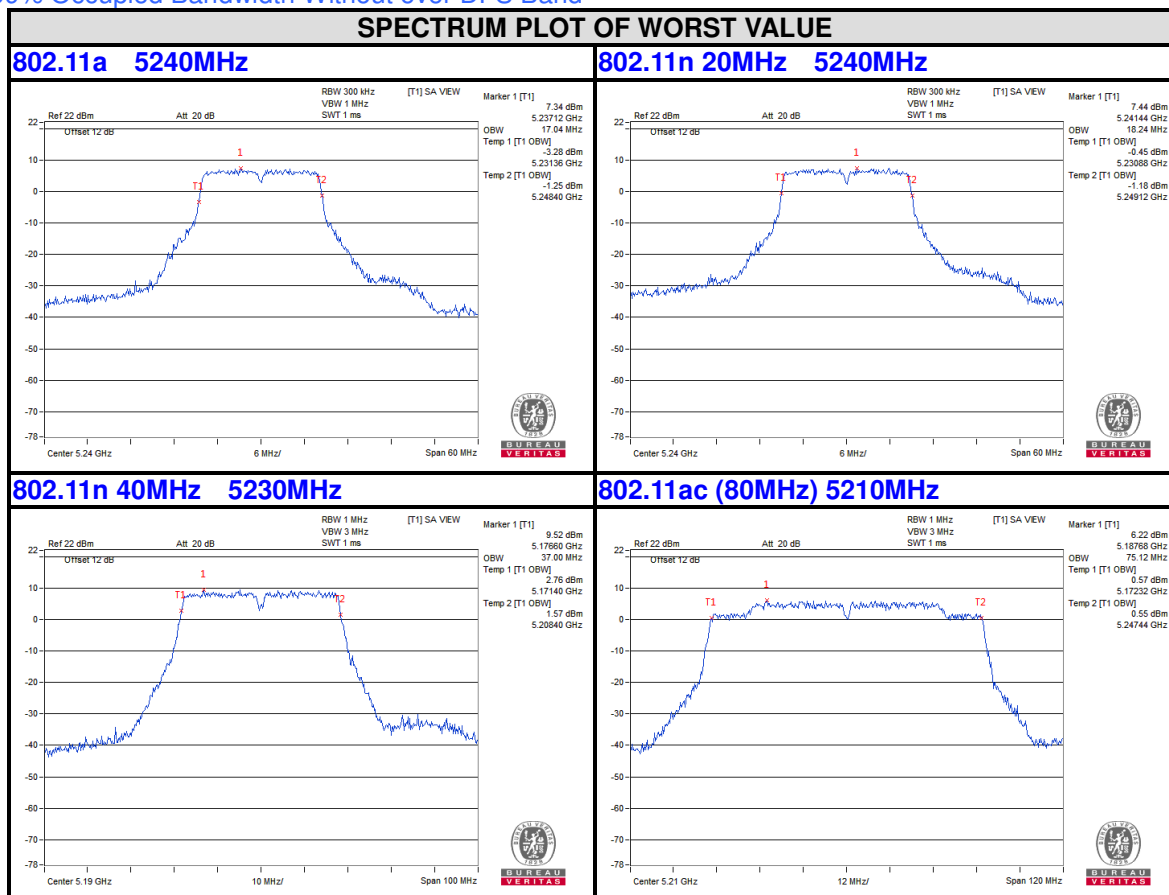
Set the EUT transmit at un-modulation mode to test frequency stability.

3.5.7 TEST RESULTS

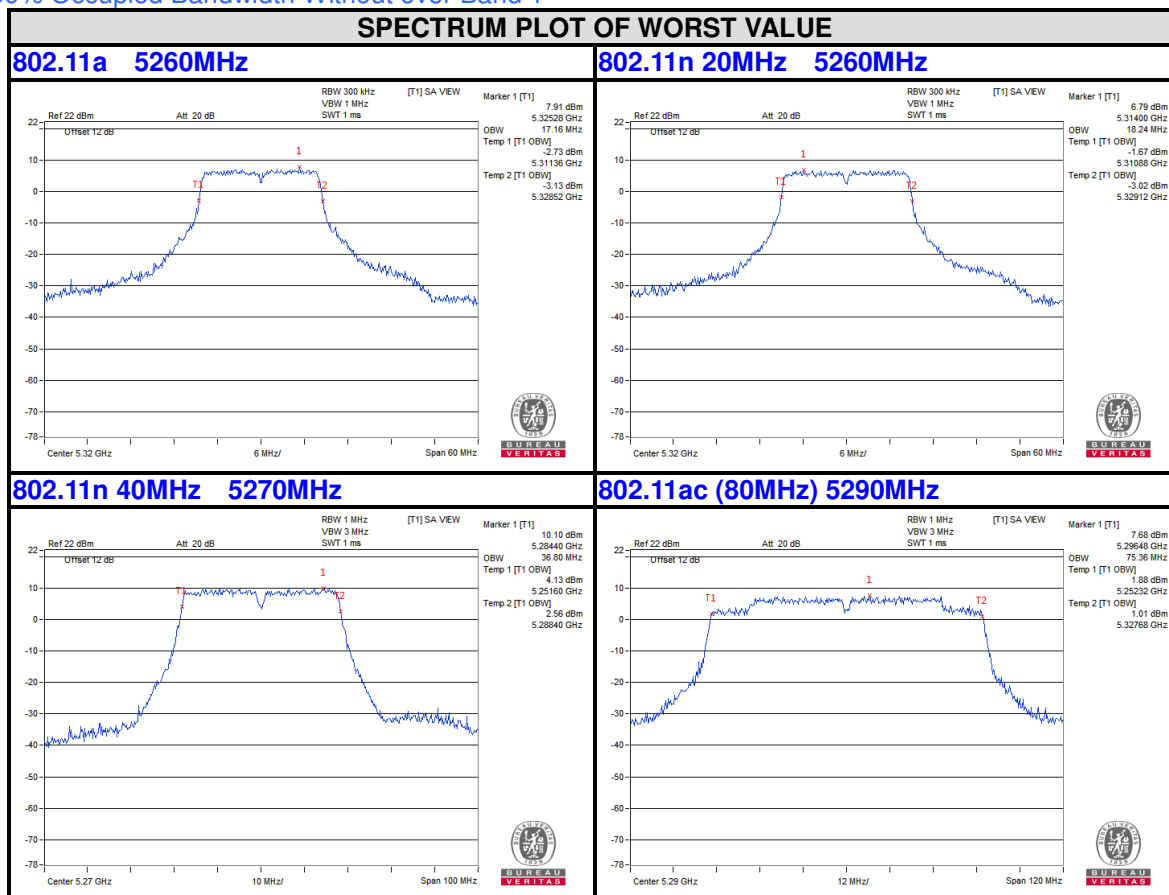
FREQUENCY STABILITY VERSUS TEMP.									
OPERATING FREQUENCY: 5180MHz									
TEMP. (°C)	POWER SUPPLY (Vac)	0 MINUTE		2 MINUTE		5 MINUTE		10 MINUTE	
		Measured Frequency (MHz)	Frequency Drift	Measured Frequency (MHz)	Frequency Drift	Measured Frequency (MHz)	Frequency Drift	Measured Frequency (MHz)	Frequency Drift
50	120	5180.0049	0.00009	5180.0037	0.00007	5180.0017	0.00003	5180.0024	0.00005
40	120	5179.9824	-0.00034	5179.982	-0.00035	5179.9787	-0.00041	5179.9814	-0.00036
30	120	5180.0038	0.00007	5180.0036	0.00007	5180.0031	0.00006	5180.0029	0.00006
20	120	5179.9791	-0.00040	5179.9777	-0.00043	5179.9756	-0.00047	5179.9774	-0.00044
10	120	5180.0164	0.00032	5180.0162	0.00031	5180.0139	0.00027	5180.0172	0.00033
0	120	5180.019	0.00037	5180.0162	0.00031	5180.017	0.00033	5180.0167	0.00032
-10	120	5179.9944	-0.00011	5179.991	-0.00017	5179.992	-0.00015	5179.9913	-0.00017
-20	120	5180.0103	0.00020	5180.0124	0.00024	5180.0137	0.00026	5180.0106	0.00020
-30	120	5179.9961	-0.00008	5179.9939	-0.00012	5179.9974	-0.00005	5179.9942	-0.00011

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
20	138	5179.9796	-0.00039	5179.9778	-0.00043	5179.9756	-0.00047	5179.9764	-0.00046
	120	5179.9791	-0.00040	5179.9777	-0.00043	5179.9756	-0.00047	5179.9774	-0.00044
	102	5179.9795	-0.00040	5179.9776	-0.00043	5179.9749	-0.00048	5179.9774	-0.00044

Band 1
5150-5250MHz
99% Occupied Bandwidth Without over DFS Band



Band 2
5250-5350MHz
99% Occupied Bandwidth Without over Band 1





Test Report No.: RF2008WDG0053-4

4. PHOTOGRAPHS OF THE TEST CONFIGURATION

Please refer to the attached file (Test Setup Photo).



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5. APPENDIX A – MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE EUT BY THE LAB

No modifications were made to the EUT by the lab during the test.

---END---