

TEST REPORT

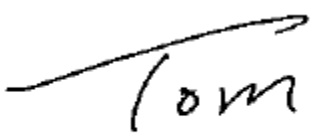
Applicant	Shenzhen VanTop Technology & Innovation Co., Ltd.
Address	502, 5th Flr. BLDG 4, MinQi Technology Park, No. 65 Lishan Road, Taoyuan Street, Nanshan District, Shenzhen, China

Manufacturer or Supplier	Shenzhen VanTop Technology & Innovation Co., Ltd.
Address	502, 5th Flr. BLDG 4, MinQi Technology Park, No. 65 Lishan Road, Taoyuan Street, Nanshan District, Shenzhen, China
Product Name	Projector
Brand Name	VANKYO
Model	Performance V630W
Additional Model & Model Difference	Performance V600W, Performance V610W, Performance V620W; etc. See section 3.1
Date of tests	Jul. 20, 2020 ~ Jan. 15, 2021

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: Mar. 12, 2021

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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
RF200720N073-2	Original release.	Mar. 12, 2021

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	No antenna connector is used

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	3.05dB
Radiated emissions	9KHz ~ 30MHz	2.16dB
	30MHz ~ 1GMHz	3.82dB
	1GHz ~ 18GHz	4.94dB
	18GHz ~ 40GHz	5.07dB

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 NAME	Projector
MODEL NO.	Performance V630W
ADDITIONAL MODELS	Performance V600W, Performance V610W, Performance V620W, Performance V640W, Performance V650W, Performance V660W, Performance V670W, Performance V680W, Performance V690W, Performance V700W, Performance V710W, Leisure 480W, Leisure 510W, Leisure 510PW, Leisure 530W, Leisure 540W, Leisure 550W, Explore 3W, Explore 6W, Explore 8W, A01001, A01002, A01003, A01004, A01005, A01006, A01007, A01008, A01009, A01010
FCC ID	2AQ3A-V630W
POWER SUPPLY	AC 100-240V 50/60Hz
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, 5745 ~ 5825MHz
NUMBER OF CHANNEL	Refer to 2.2 section
CONDUCTED OUTPUT POWER	15.78mW for 5150 ~ 5250MHz (Maximum AVG Power) 12.91mW for 5725 ~ 5850MHz (Maximum AVG Power)
ANTENNA TYPE	5180 ~ 5240MHz: Integral antenna with 2.91dBi gain 5745 ~ 5825MHz: Integral antenna with 3.13dBi gain
I/O PORTS	Refer to user's manual
CABLE SUPPLIED	AC cable: Unshielded, Detachable, 1.5m HDMI cable: Shielded, Detachable, 1m AV cable: Unshielded, Detachable, 0.3m

NOTE:

- For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.
- For the test results, the EUT had been tested with all conditions. But only the worst case was shown in test report.
- Please refer to the EUT photo document (Reference No.:200720N073) for detailed product photo.
- Additional models (See above table) are identical with the test model Performance V630W the only differences are the model number, color and appearance for trading purpose.



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

MODULATION MODE	TX FUNCTION
802.11a	1TX/1RX
802.11ac 80MHz	1TX/1RX
802. 11n 20MHz	1TX/1RX
802. 11n 40MHz	1TX/1RX

2.2 DESCRIPTION OF TEST MODES

FOR 5150 ~ 5250MHz

4 channels are provided for 802.11a, 802.11ac (20MHz), 802.11n (20MHz):

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
36	5180 MHz	44	5220 MHz
40	5200 MHz	48	5240 MHz

2 channels are provided for 802.11ac (40MHz), 802.11n (40MHz):

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
38	5190 MHz	46	5230 MHz

1 channel is provided for 802.11ac (80MHz):

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
42	5210MHz	--	--

FOR 5725 ~ 5850MHz

5 channels are provided for 802.11a, 802.11ac (20MHz), 802.11n (20MHz):

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

2 channels are provided for 802.11ac (40MHz), 802.11n (40MHz):

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
151	5755MHz	159	5795MHz

1 channel is provided for 802.11ac (80MHz):

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
155	5775MHz	--	--

2.2.1 TEST MODE APPLICABILITY AND TESTED CHANNEL DETAIL

EUT CONFIGURE MODE	APPLICABLE TO				DESCRIPTION
	RE $\geq$ 1G	RE<1G	PLC	APCM	
-	√	√	√	√	Powered by AC 120V with wifi(5G) link

Where **RE $\geq$ 1G**: Radiated Emission above 1GHz

PLC: Power Line Conducted Emission

RE<1G: Radiated Emission below 1GHz

APCM: Antenna Port Conducted Measurement

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)
-	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	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)
-	802.11a	5150-5250 5725-5850	36 to 48 140 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)
-	802.11a	5180-5240 5725-5850	36 to 48 149 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)
-	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	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	TESTED BY
RE<1G	25deg. C, 51%RH	AC 120V 60Hz	Jelly
RE≥1G	25deg. C, 51%RH	AC 120V 60Hz	Jelly
PLC	20deg. C, 56%RH	AC 120V 60Hz	Ming Bai
APCM	20deg. C, 55%RH	AC 120V 60Hz	Daniel



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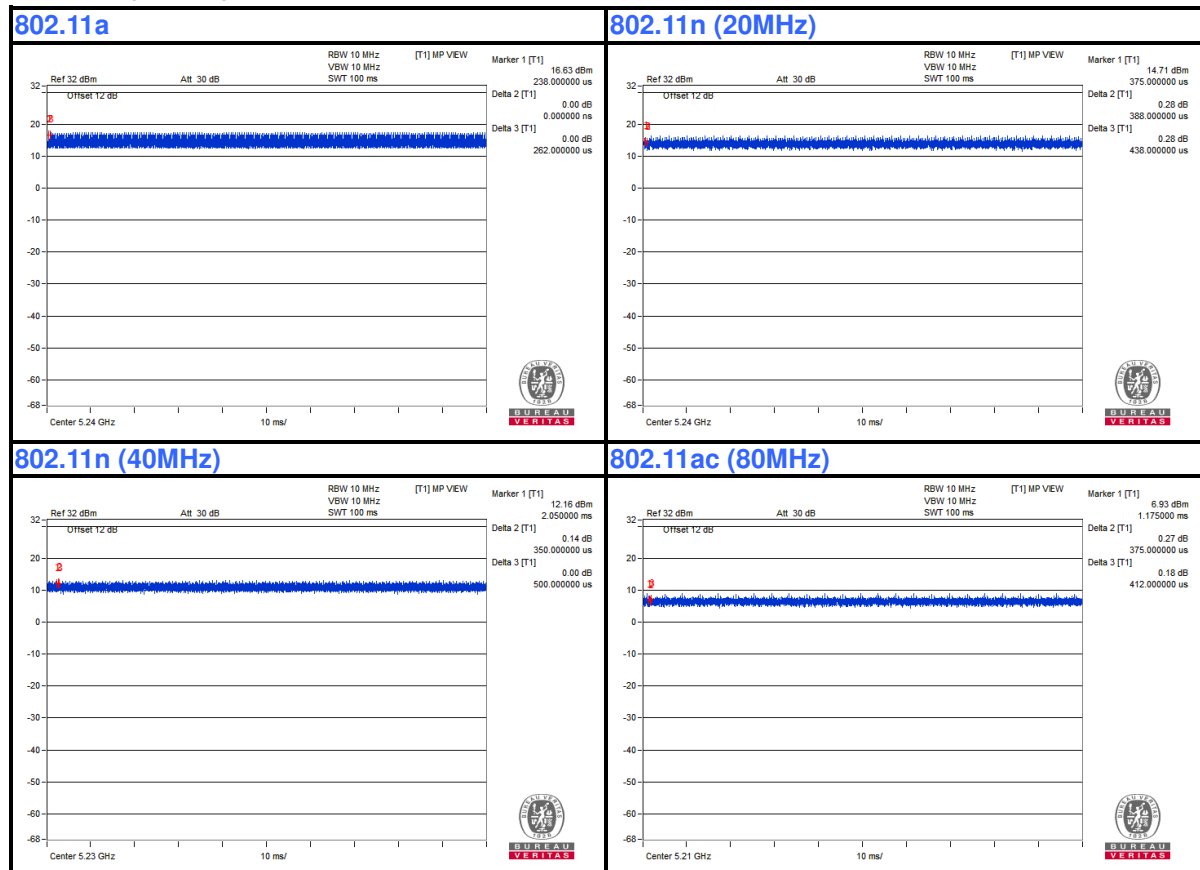
2.3 DUTY CYCLE OF TEST SIGNAL

802.11a: 100%

802.11n (20MHz): 100%

802.11n (40MHz): 100%

802.11ac (80MHz): 100%



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2.4 DESCRIPTION OF SUPPORT UNITS

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

NO.	PRODUCT	BRAND	MODEL NO.	SERIAL NO.	FCC ID
1	Dummy load	N/A	N/A	N/A	N/A

NO.	SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS
1	AC Line: Unshielded, Detachable 1.5m, DC Line: Unshielded, Detachable 1.0m VGA cable: Shielded, detachable, 1.5m with two cores

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 v01r03	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 test was performed in 966 Chamber.
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. The horn antenna is used only for the measurement of emission frequency above 1GHz if tested.
4. 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:

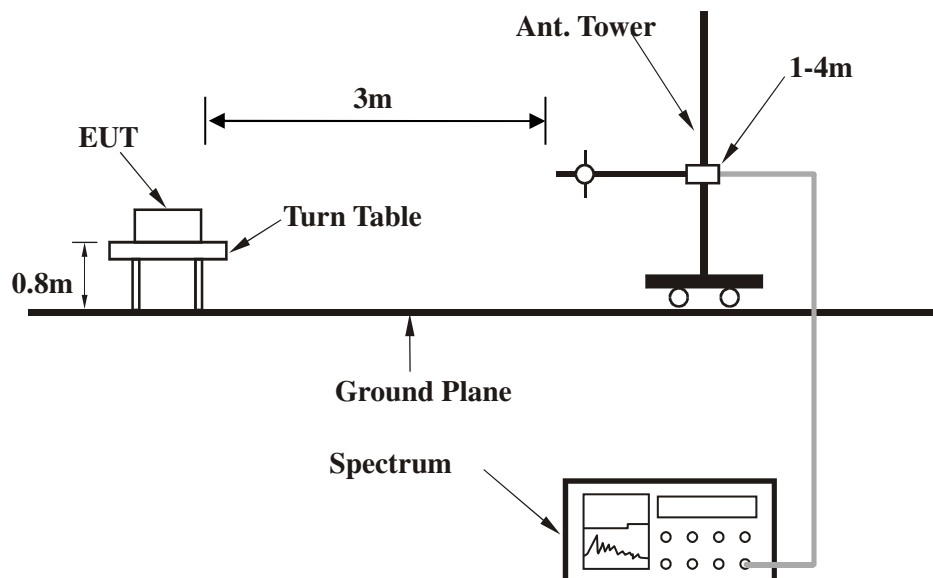
1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection at frequency below 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
3. The resolution 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.

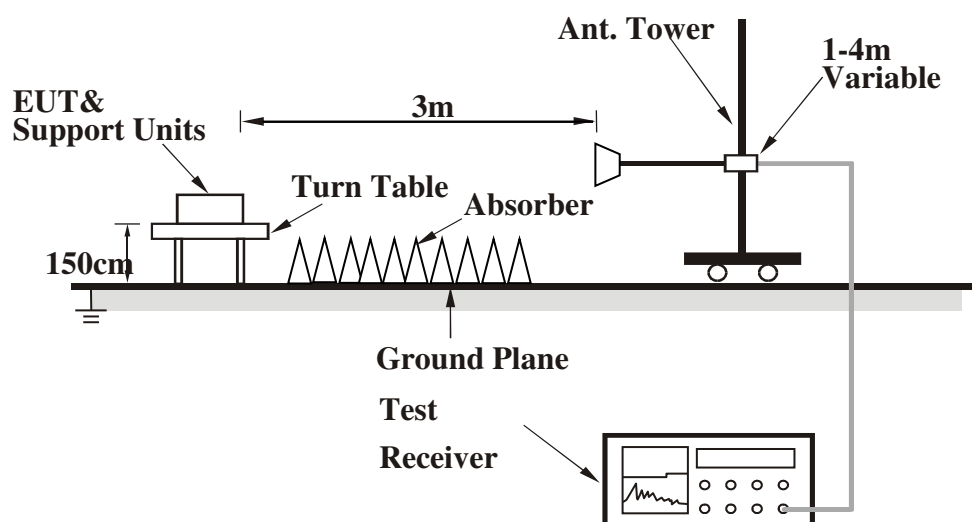
3.1.6 TEST SETUP

Below 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).



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3.1.7 EUT OPERATING CONDITION

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

3.1.8 TEST RESULTS

BELOW 1GHz WORST-CASE DATA

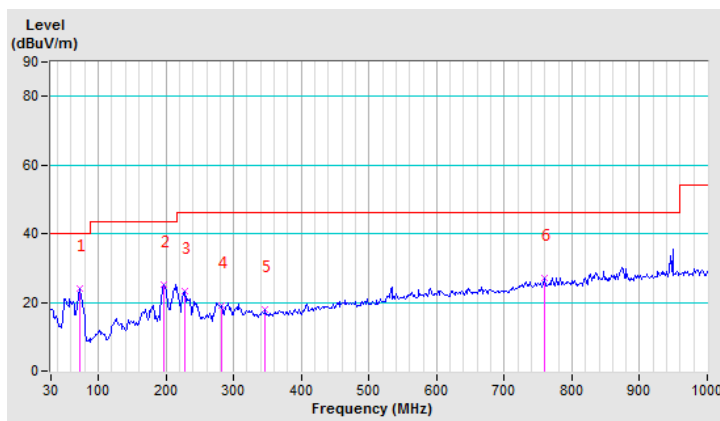
802.11a

CHANNEL	TX Channel 36	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	30MHz ~ 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	71.97	23.89 QP	40.00	-16.11	1.00 H	324	48.11	-24.22
2	196.33	25.24 QP	43.50	-18.26	1.00 H	313	44.49	-19.25
3	227.42	23.23 QP	46.00	-22.77	1.00 H	303	42.22	-18.99
4	281.83	19.05 QP	46.00	-26.95	1.00 H	293	34.33	-15.28
5	347.12	17.86 QP	46.00	-28.14	1.00 H	284	30.78	-12.92
6	759.05	26.93 QP	46.00	-19.07	1.00 H	271	30.54	-3.61

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 less than 20dB margin against the limit.
4. Margin value = Emission level – Limit value.

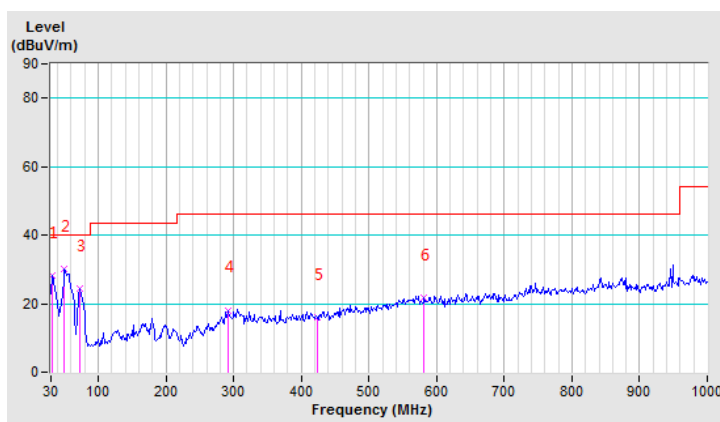


CHANNEL	TX Channel 36	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	30MHz ~ 1GHz		

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	31.55	28.05 QP	40.00	-11.95	1.00 V	86	40.77	-12.72
2	50.21	30.19 QP	40.00	-9.81	1.00 V	58	51.33	-21.14
3	71.97	24.38 QP	40.00	-15.62	1.00 V	73	48.60	-24.22
4	291.15	18.09 QP	46.00	-27.91	1.00 V	98	32.84	-14.75
5	423.29	16.16 QP	46.00	-29.84	1.00 V	110	27.15	-10.99
6	581.84	21.67 QP	46.00	-24.33	1.00 V	120	28.71	-7.04

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 less than 20dB margin against the limit.
4. 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)

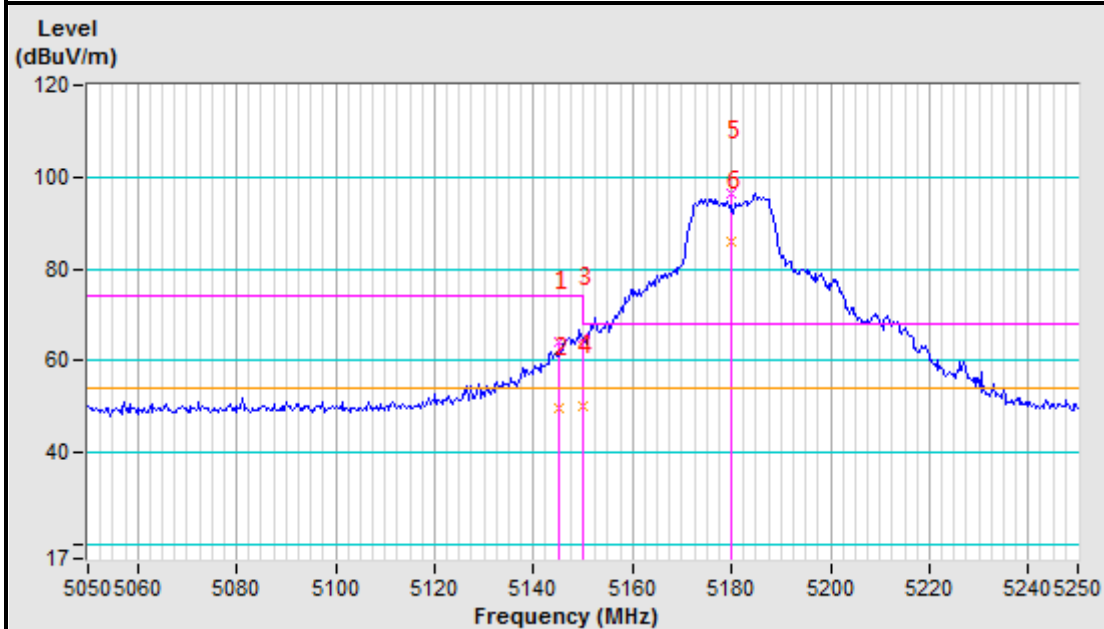
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5145.00	64.01 PK	74.00	-9.99	1.00 H	85	55.22	8.79
2	5145.00	49.70 AV	54.00	-4.30	1.00 H	85	40.91	8.79
3	5150.00	65.02 PK	74.00	-8.98	1.00 H	85	56.22	8.80
4	5150.00	50.07 AV	54.00	-3.93	1.00 H	85	41.27	8.80
5	*5180.00	96.58 PK			1.00 H	85	87.76	8.82
6	*5180.00	85.95 AV			1.00 H	85	77.13	8.82
7	#10360.00	57.70 PK	68.20	-10.50	1.00 H	0	39.89	17.81
8	15540.00	62.22 PK	74.00	-11.78	1.00 H	0	38.13	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	61.23 PK	74.00	-12.77	1.00 V	50	52.43	8.80
2	5148.00	46.50 AV	54.00	-7.50	1.00 V	50	37.70	8.80
3	5150.00	62.62 PK	74.00	-11.38	1.00 V	50	53.82	8.80
4	5150.00	47.29 AV	54.00	-6.71	1.00 V	50	38.49	8.80
5	*5180.00	93.67 PK			1.00 V	50	84.85	8.82
6	*5180.00	82.99 AV			1.00 V	50	74.17	8.82
7	#10360.00	65.00 PK	68.20	-3.20	1.00 V	0	47.19	17.81
8	15540.00	63.05 PK	74.00	-10.95	1.00 V	0	38.96	24.09
9	15540.00	48.89 AV	54.00	-5.11	1.00 V	0	24.80	24.09

REMARKS:

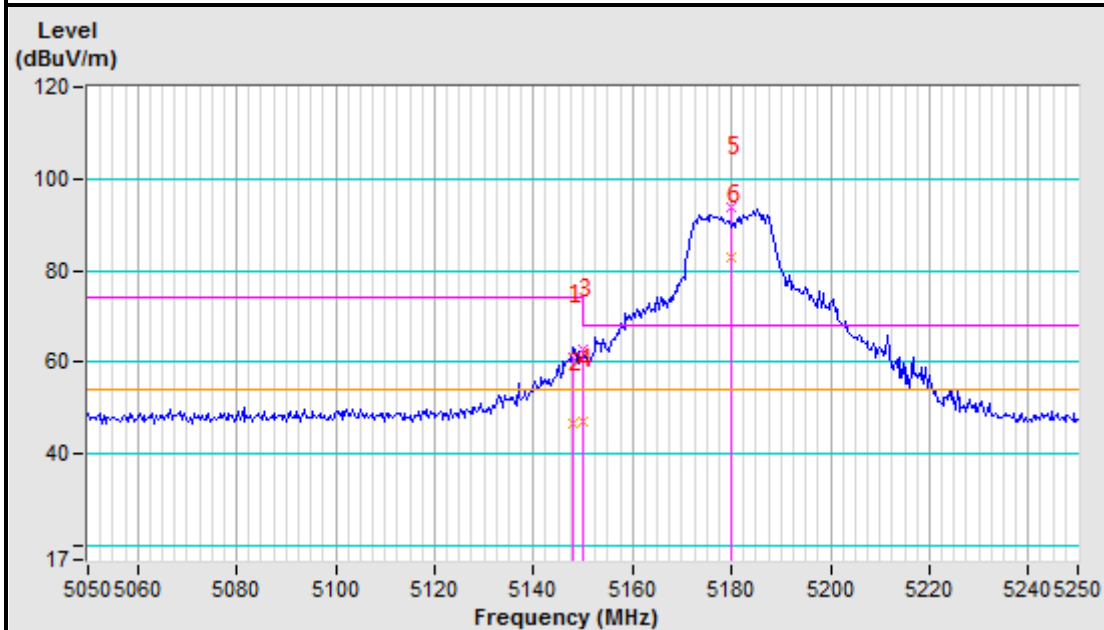
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The emission levels of other frequencies were greater than 20dB margin.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.
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	5147.00	50.78 PK	74.00	-23.22	1.00 H	0	41.99	8.79
2	5147.00	38.47 AV	54.00	-15.53	1.00 H	255	29.68	8.79
3	5150.00	52.23 PK	74.00	-21.77	1.00 H	200	43.43	8.80
4	5150.00	39.00 AV	54.00	-15.00	1.00 H	0	30.20	8.80
5	*5200.00	94.70 PK			1.00 H	55	85.85	8.85
6	*5200.00	84.05 AV			1.00 H	43	75.20	8.85
7	#10400.00	58.23 PK	68.20	-9.97	1.00 H	57	40.23	18.00
8	15600.00	62.24 PK	74.00	-11.76	1.00 H	159	38.03	24.21
9	15600.00	48.10 AV	54.00	-5.90	1.00 H	0	23.89	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	50.22 PK	74.00	-23.78	1.00 V	130	41.43	8.79
2	5145.00	38.40 AV	54.00	-15.60	1.00 V	130	29.61	8.79
3	5150.00	51.13 PK	74.00	-22.87	1.00 V	130	42.33	8.80
4	5150.00	38.80 AV	54.00	-15.20	1.00 V	130	30.00	8.80
5	*5200.00	89.95 PK			1.00 V	130	81.10	8.85
6	*5200.00	80.55 AV			1.00 V	130	71.70	8.85
7	#10400.00	62.29 PK	68.20	-5.91	1.00 V	0	44.29	18.00
8	15600.00	63.23 PK	74.00	-10.77	1.00 V	0	39.02	24.21
9	15600.00	49.20 AV	54.00	-4.80	1.00 V	0	24.99	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	5145.00	50.44 PK	74.00	-23.56	1.00 H	20	41.65	8.79
2	5145.00	39.00 AV	54.00	-15.00	1.00 H	20	30.21	8.79
3	5150.00	49.88 PK	74.00	-24.12	1.00 H	20	41.08	8.80
4	5150.00	39.35 AV	54.00	-14.65	1.00 H	20	30.55	8.80
5	*5240.00	98.02 PK			1.00 H	20	89.14	8.88
6	*5240.00	90.50 AV			1.00 H	20	81.62	8.88
7	5350.00	50.84 PK	74.00	-23.16	1.00 H	20	41.86	8.98
8	5350.00	40.40 AV	54.00	-13.60	1.00 H	20	31.42	8.98
9	5353.00	50.47 PK	74.00	-23.53	1.00 H	20	41.48	8.99
10	5353.00	40.30 AV	54.00	-13.70	1.00 H	20	31.31	8.99
11	#10480.00	59.45 PK	68.20	-8.75	1.00 H	0	41.08	18.37
12	15720.00	63.05 PK	74.00	-10.95	1.00 H	0	38.62	24.43
13	15720.00	50.10 AV	54.00	-3.90	1.00 H	0	25.67	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	5144.00	50.33 PK	74.00	-23.67	1.00 V	35	41.53	8.80
2	5144.00	39.60 AV	54.00	-14.40	1.00 V	35	30.80	8.80
3	5150.00	50.70 PK	74.00	-23.30	1.00 V	35	41.90	8.80
4	5150.00	39.78 AV	54.00	-14.22	1.00 V	35	30.98	8.80
5	*5240.00	94.42 PK			1.00 V	35	85.54	8.88
6	*5240.00	85.10 AV			1.00 V	35	76.22	8.88
7	5350.00	51.12 PK	74.00	-22.88	1.00 V	35	42.14	8.98
8	5350.00	40.80 AV	54.00	-13.20	1.00 V	35	31.82	8.98
9	5356.00	51.70 PK	74.00	-22.30	1.00 V	35	42.72	8.98
10	5356.00	40.55 AV	54.00	-13.45	1.00 V	35	31.57	8.98
11	#10480.00	63.60 PK	68.20	-4.60	1.00 V	0	45.23	18.37
12	15720.00	62.46 PK	74.00	-11.54	1.00 V	0	38.03	24.43
13	15720.00	48.98 AV	54.00	-5.02	1.00 V	0	24.55	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)

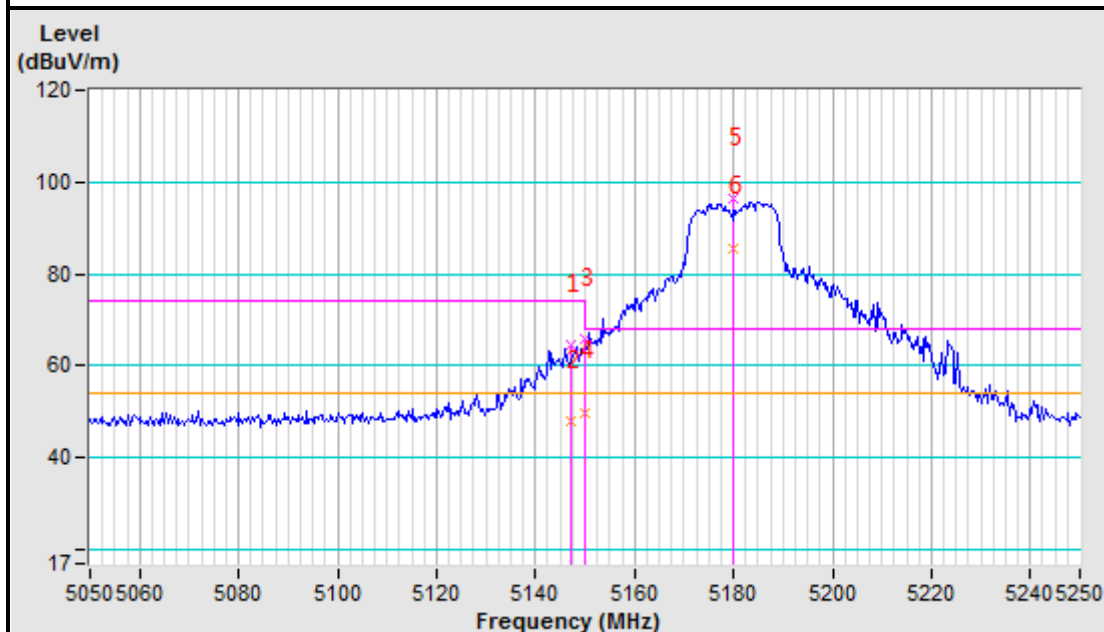
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5147.00	64.45 PK	74.00	-9.55	1.00 H	10	55.66	8.79
2	5147.00	47.86 AV	54.00	-6.14	1.00 H	10	39.07	8.79
3	5150.00	65.75 PK	74.00	-8.25	1.00 H	10	56.95	8.80
4	5150.00	49.77 AV	54.00	-4.23	1.00 H	10	40.97	8.80
5	*5180.00	96.28 PK			1.00 H	10	87.46	8.82
6	*5180.00	85.72 AV			1.00 H	10	76.90	8.82
7	#10360.00	58.80 PK	68.20	-9.40	1.00 H	0	40.99	17.81
8	15600.00	62.46 PK	74.00	-11.54	1.00 H	0	38.25	24.21
9	15600.00	49.70 AV	54.00	-4.30	1.00 H	0	25.49	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	5146.00	61.12 PK	74.00	-12.88	1.00 V	150	52.33	8.79
2	5146.00	44.60 AV	54.00	-9.40	1.00 V	150	35.81	8.79
3	5150.00	61.54 PK	74.00	-12.46	1.00 V	150	52.74	8.80
4	5150.00	46.23 AV	54.00	-7.77	1.00 V	150	37.43	8.80
5	*5180.00	91.80 PK			1.00 V	150	82.98	8.82
6	*5180.00	81.36 AV			1.00 V	150	72.54	8.82
7	#10360.00	65.80 PK	68.20	-2.40	1.00 V	0	47.99	17.81
8	15540.00	63.35 PK	74.00	-10.65	1.00 V	0	39.26	24.09
9	15540.00	49.05 AV	54.00	-4.95	1.00 V	0	24.96	24.09

REMARKS:

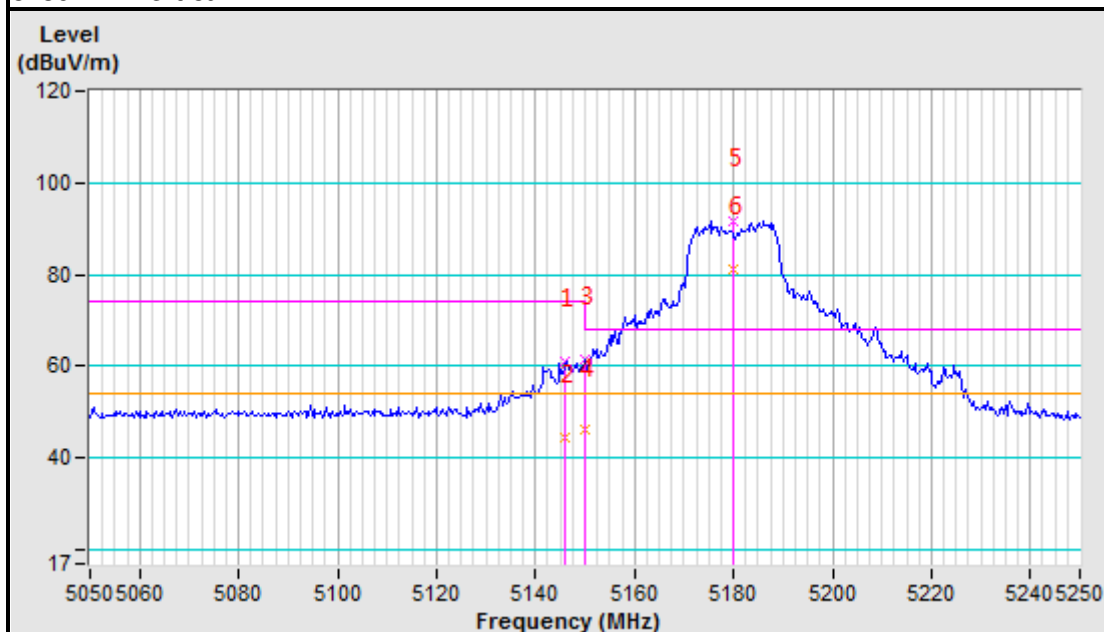
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The emission levels of other frequencies were greater than 20dB margin.
4. Margin value = Emission level – Limit value.
5. " * " : Fundamental frequency.
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	5144.00	53.64 PK	74.00	-20.36	1.00 H	54	44.84	8.80
2	5144.00	42.10 AV	54.00	-11.90	1.00 H	54	33.30	8.80
3	5150.00	54.67 PK	74.00	-19.33	1.00 H	54	45.87	8.80
4	5150.00	43.00 AV	54.00	-11.00	1.00 H	54	34.20	8.80
5	*5200.00	99.16 PK			1.00 H	54	90.31	8.85
6	*5200.00	89.04 AV			1.00 H	54	80.19	8.85
7	#10400.00	59.45 PK	68.20	-8.75	1.00 H	0	41.45	18.00
8	15600.00	63.30 PK	74.00	-10.70	1.00 H	0	39.09	24.21
9	15600.00	49.98 AV	54.00	-4.02	1.00 H	0	25.77	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	51.10 PK	74.00	-22.90	1.00 V	110	42.31	8.79
2	5145.00	40.00 AV	54.00	-14.00	1.00 V	110	31.21	8.79
3	5150.00	50.67 PK	74.00	-23.33	1.00 V	110	41.87	8.80
4	5150.00	40.20 AV	54.00	-13.80	1.00 V	110	31.40	8.80
5	*5200.00	93.43 PK			1.00 V	110	84.58	8.85
6	*5200.00	83.49 AV			1.00 V	110	74.64	8.85
7	#10400.00	62.58 PK	68.20	-5.62	1.00 V	0	44.58	18.00
8	15600.00	63.12 PK	74.00	-10.88	1.00 V	0	38.91	24.21
9	15600.00	49.69 AV	54.00	-4.31	1.00 V	0	25.48	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	5146.00	49.70 PK	74.00	-24.30	1.00 H	40	40.91	8.79
2	5146.00	38.50 AV	54.00	-15.50	1.00 H	40	29.71	8.79
3	5150.00	49.66 PK	74.00	-24.34	1.00 H	40	40.86	8.80
4	5150.00	39.60 AV	54.00	-14.40	1.00 H	40	30.80	8.80
5	*5240.00	99.59 PK			1.00 H	40	90.71	8.88
6	*5240.00	90.03 AV			1.00 H	40	81.15	8.88
7	5350.00	50.06 PK	74.00	-23.94	1.00 H	40	41.08	8.98
8	5350.00	40.03 AV	54.00	-13.97	1.00 H	40	31.05	8.98
9	5355.00	51.12 PK	74.00	-22.88	1.00 H	40	42.13	8.99
10	5355.00	40.00 AV	54.00	-14.00	1.00 H	40	31.01	8.99
11	#10480.00	58.45 PK	68.20	-9.75	1.00 H	0	40.08	18.37
12	15720.00	63.03 PK	74.00	-10.97	1.00 H	0	38.60	24.43
13	15720.00	49.50 AV	54.00	-4.50	1.00 H	0	25.07	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	5143.00	49.70 PK	74.00	-24.30	1.00 V	22	40.91	8.79
2	5143.00	39.00 AV	54.00	-15.00	1.00 V	22	30.21	8.79
3	5150.00	49.90 PK	74.00	-24.10	1.00 V	22	41.10	8.80
4	5150.00	39.50 AV	54.00	-14.50	1.00 V	22	30.70	8.80
5	*5240.00	93.78 PK			1.00 V	22	84.90	8.88
6	*5240.00	84.03 AV			1.00 V	22	75.15	8.88
7	5350.00	50.33 PK	74.00	-23.67	1.00 V	22	41.35	8.98
8	5350.00	39.90 AV	54.00	-14.10	1.00 V	22	30.92	8.98
9	5354.00	50.20 PK	74.00	-23.80	1.00 V	22	41.21	8.99
10	5354.00	39.78 AV	54.00	-14.22	1.00 V	22	30.79	8.99
11	#10400.00	64.26 PK	68.20	-3.94	1.00 V	0	46.26	18.00
12	15720.00	63.14 PK	74.00	-10.86	1.00 V	0	38.71	24.43
13	15720.00	50.02 AV	54.00	-3.98	1.00 V	0	25.59	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)

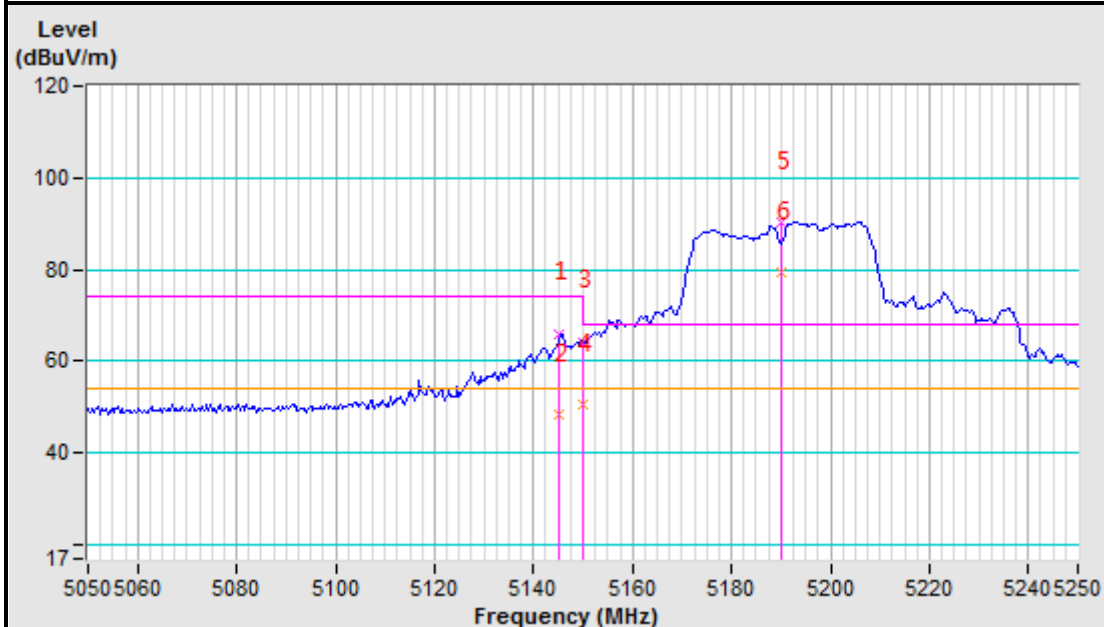
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5145.00	66.03 PK	74.00	-7.97	1.00 H	84	57.24	8.79
2	5145.00	48.34 AV	54.00	-5.66	1.00 H	84	39.55	8.79
3	5150.00	64.19 PK	74.00	-9.81	1.00 H	84	55.39	8.80
4	5150.00	50.45 AV	54.00	-3.55	1.00 H	84	41.65	8.80
5	*5190.00	90.25 PK			1.00 H	84	81.42	8.83
6	*5190.00	79.32 AV			1.00 H	84	70.49	8.83
7	#10380.00	62.45 PK	68.20	-5.75	1.00 H	0	44.54	17.91
8	15570.00	62.32 PK	74.00	-11.68	1.00 H	0	38.17	24.15
9	15570.00	50.03 AV	54.00	-3.97	1.00 H	0	25.88	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	62.96 PK	74.00	-11.04	1.00 V	15	54.17	8.79
2	5145.00	46.60 AV	54.00	-7.40	1.00 V	15	37.81	8.79
3	5150.00	59.99 PK	74.00	-14.01	1.00 V	15	51.19	8.80
4	5150.00	47.70 AV	54.00	-6.30	1.00 V	15	38.90	8.80
5	*5190.00	87.33 PK			1.00 V	15	78.50	8.83
6	*5190.00	78.01 AV			1.00 V	15	69.18	8.83
7	#10380.00	62.21 PK	68.20	-5.99	1.00 V	0	44.30	17.91
8	15570.00	63.45 PK	74.00	-10.55	1.00 V	0	39.30	24.15
9	15570.00	50.00 AV	54.00	-4.00	1.00 V	0	25.85	24.15

REMARKS:

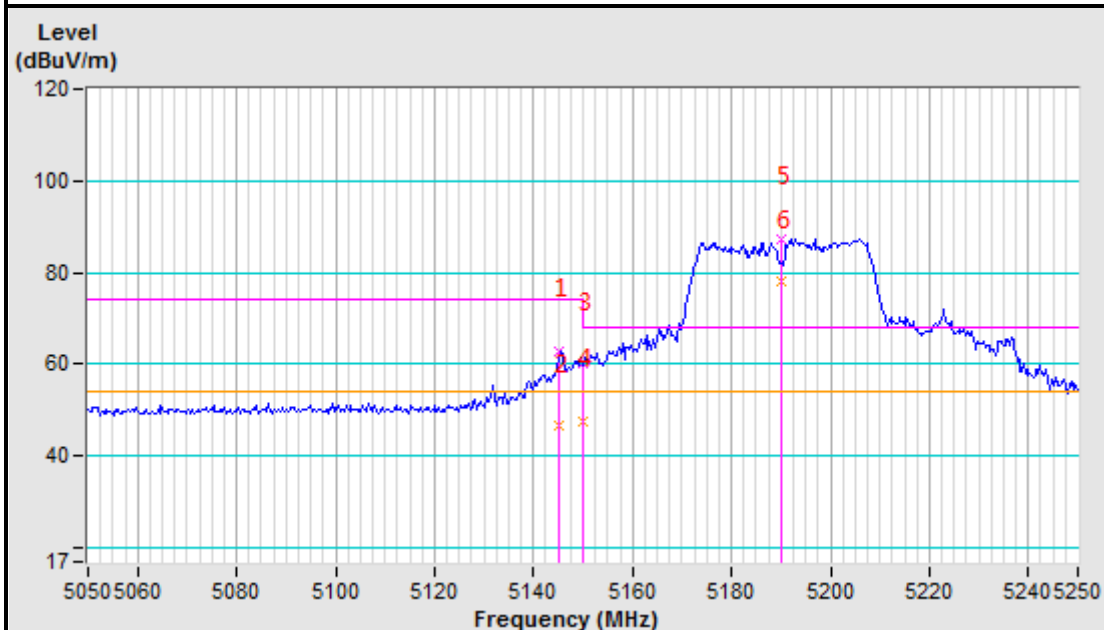
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The emission levels of other frequencies were greater than 20dB margin.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.
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	5146.00	52.37 PK	74.00	-21.63	1.00 H	236	43.58	8.79
2	5146.00	39.89 AV	54.00	-14.11	1.00 H	236	31.10	8.79
3	5150.00	53.63 PK	74.00	-20.37	1.00 H	236	44.83	8.80
4	5150.00	40.43 AV	54.00	-13.57	1.00 H	236	31.63	8.80
5	*5230.00	98.57 PK			1.00 H	236	89.70	8.87
6	*5230.00	87.67 AV			1.00 H	236	78.80	8.87
7	#10460.00	56.90 PK	68.20	-11.30	1.00 H	0	38.62	18.28
8	15690.00	62.52 PK	74.00	-11.48	1.00 H	0	38.15	24.37
9	15690.00	48.36 AV	54.00	-5.64	1.00 H	0	23.99	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	48.88 PK	74.00	-25.12	1.00 V	152	40.09	8.79
2	5145.00	38.40 AV	54.00	-15.60	1.00 V	152	29.61	8.79
3	5150.00	49.99 PK	74.00	-24.01	1.00 V	152	41.19	8.80
4	5150.00	38.68 AV	54.00	-15.32	1.00 V	152	29.88	8.80
5	*5230.00	92.07 PK			1.00 V	152	83.20	8.87
6	*5230.00	80.99 AV			1.00 V	152	72.12	8.87
7	#10460.00	64.52 PK	68.20	-3.68	1.00 V	0	46.24	18.28
8	15690.00	63.52 PK	74.00	-10.48	1.00 V	0	39.15	24.37
9	15690.00	48.24 AV	54.00	-5.76	1.00 V	0	23.87	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)

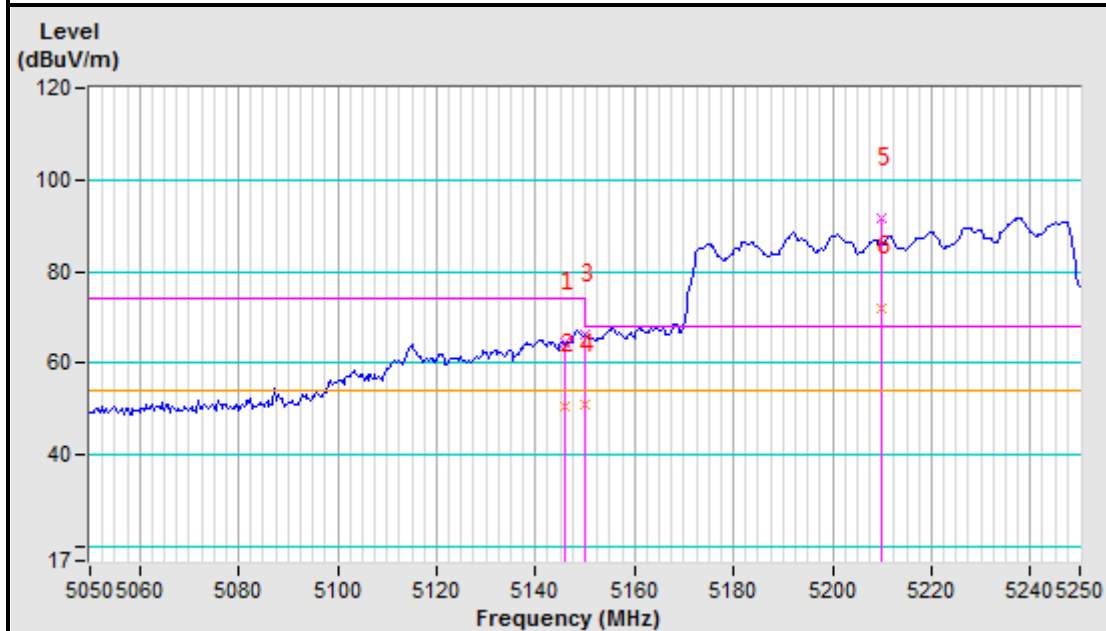
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5146.00	64.55 PK	74.00	-9.45	1.00 H	145	55.76	8.79
2	5146.00	50.73 AV	54.00	-3.27	1.00 H	145	41.94	8.79
3	5150.00	66.11 PK	74.00	-7.89	1.00 H	145	57.31	8.80
4	5150.00	51.00 AV	54.00	-3.00	1.00 H	145	42.20	8.80
5	*5210.00	91.64 PK			1.00 H	145	82.79	8.85
6	*5210.00	72.11 AV			1.00 H	145	63.26	8.85
7	#10420.00	57.62 PK	68.20	-10.58	1.00 H	0	39.53	18.09
8	15630.00	62.95 PK	74.00	-11.05	1.00 H	0	38.69	24.26
9	15630.00	48.35 AV	54.00	-5.65	1.00 H	0	24.09	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	5148.00	57.39 PK	74.00	-16.61	1.00 V	189	48.59	8.80
2	5148.00	43.43 AV	54.00	-10.57	1.00 V	189	34.63	8.80
3	5150.00	51.79 PK	74.00	-22.21	1.00 V	189	42.99	8.80
4	5150.00	43.59 AV	54.00	-10.41	1.00 V	189	34.79	8.80
5	*5210.00	89.44 PK			1.00 V	189	80.59	8.85
6	*5210.00	73.68 AV			1.00 V	189	64.83	8.85
7	#10420.00	65.14 PK	68.20	-3.06	1.00 V	0	47.05	18.09
8	15630.00	63.52 PK	74.00	-10.48	1.00 V	0	39.26	24.26
9	15630.00	48.46 AV	54.00	-5.54	1.00 V	0	24.20	24.26

REMARKS:

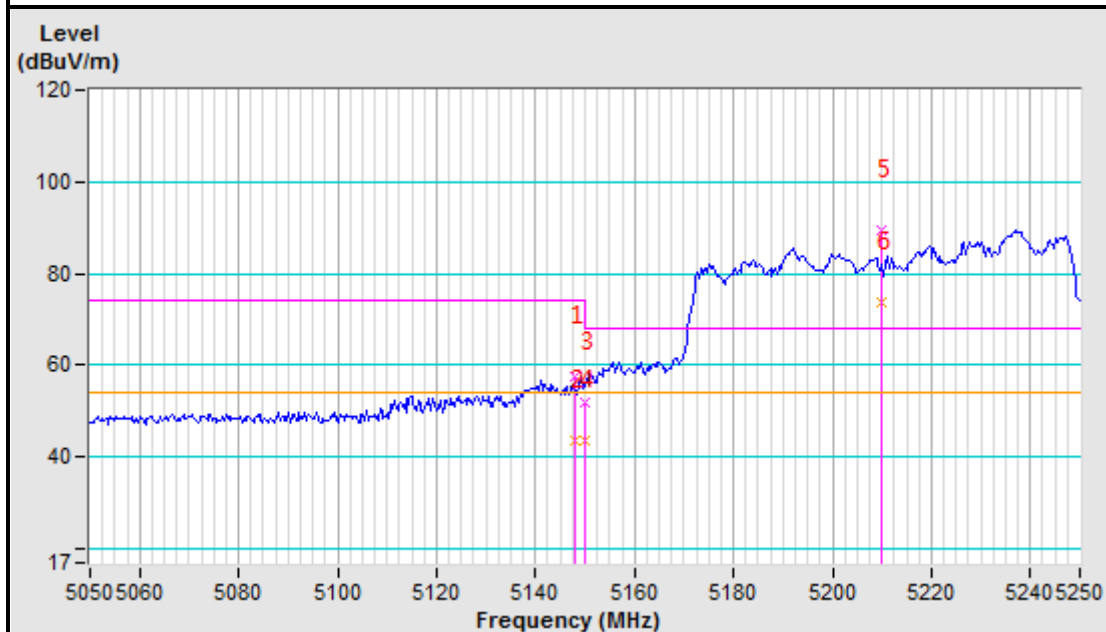
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The emission levels of other frequencies were greater than 20dB margin.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.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

Band edge Plot

5210MHz Horizontal



5210MHz Vertical





Test Report No.: RF200720N073-2

Band 4 (5725-5850MHz):

ABOVE 1GHz DATA

802.11a

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

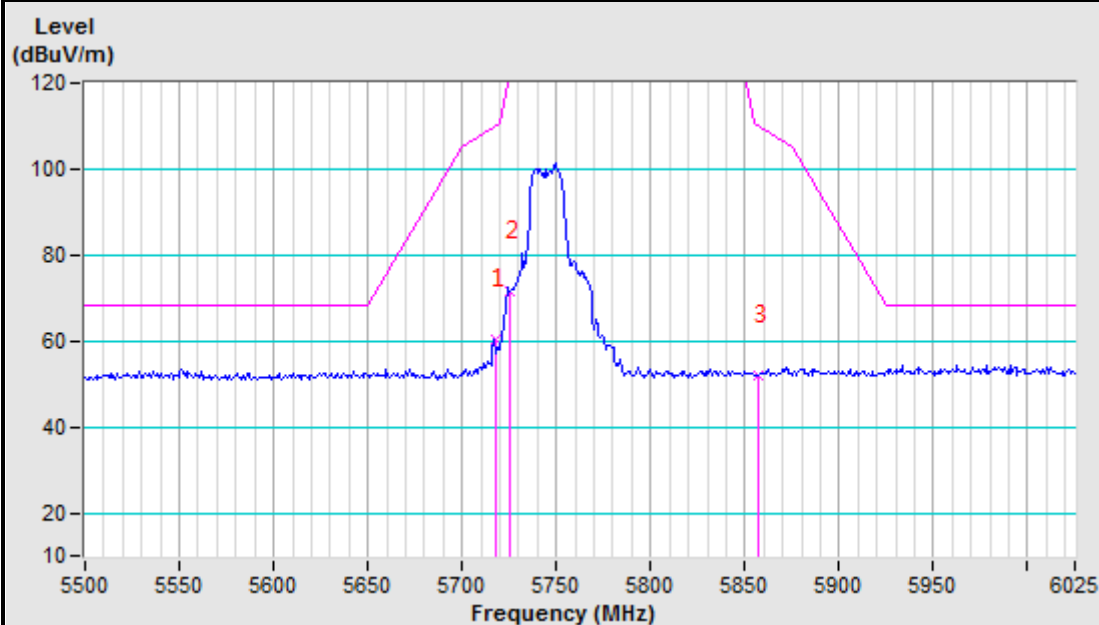
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5717.43	60.31 PK	110.08	-49.77	1.92 H	0	50.38	9.93
2	#5725.00	71.44 PK	122.20	-50.76	1.92 H	0	61.48	9.96
3	*5745.00	101.50 PK			1.00 H	53	91.47	10.03
4	*5745.00	90.33 AV			1.00 H	53	80.30	10.03
5	#5857.57	52.05 PK	110.08	-58.03	1.92 H	0	41.60	10.45
6	11490.00	60.33 PK	74.00	-13.67	1.00 H	0	39.84	20.49
7	11490.00	47.88 AV	54.00	-6.12	1.00 H	0	27.39	20.49
8	#17235.00	64.11 PK	68.20	-4.09	1.00 H	0	36.80	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	#5722.48	60.26 PK	116.45	-56.19	1.60 V	0	50.32	9.94
2	#5725.00	72.11 PK	122.20	-50.09	1.60 V	0	62.15	9.96
3	*5745.00	97.11 PK			1.00 V	0	87.08	10.03
4	*5745.00	86.20 AV			1.00 V	0	76.17	10.03
5	#5867.67	52.54 PK	107.25	-54.71	1.60 V	0	42.05	10.49
6	11490.00	62.31 PK	74.00	-11.69	1.00 V	0	41.82	20.49
7	11490.00	48.88 AV	54.00	-5.12	1.00 V	0	28.39	20.49
8	#17235.00	65.20 PK	68.20	-3.00	1.00 V	0	37.89	27.31

REMARKS:

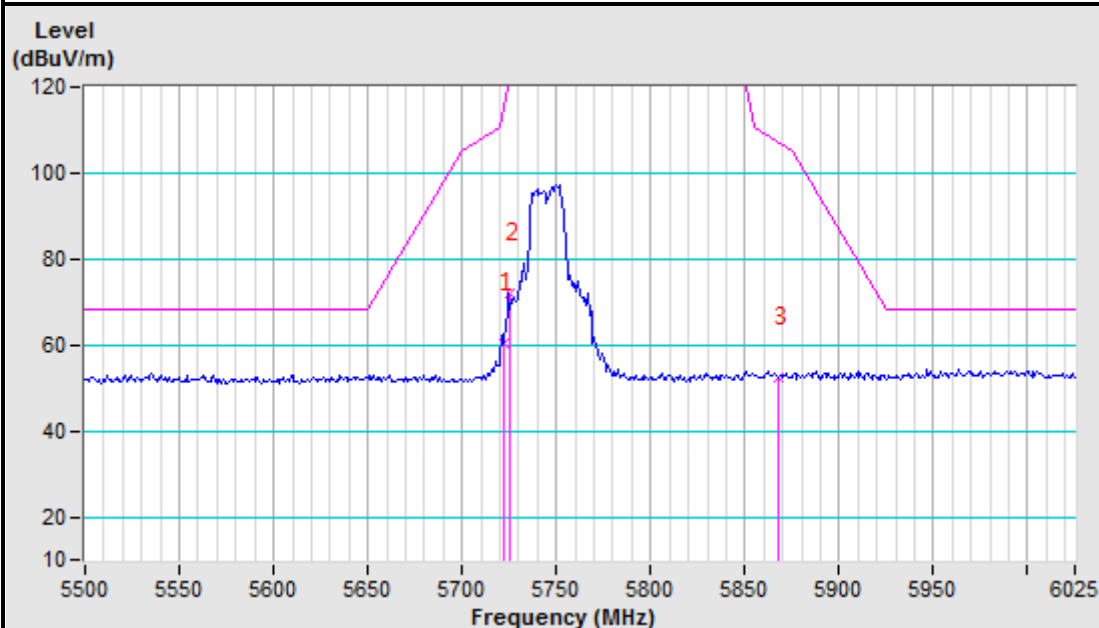
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The emission levels of other frequencies were greater than 20dB margin.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.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

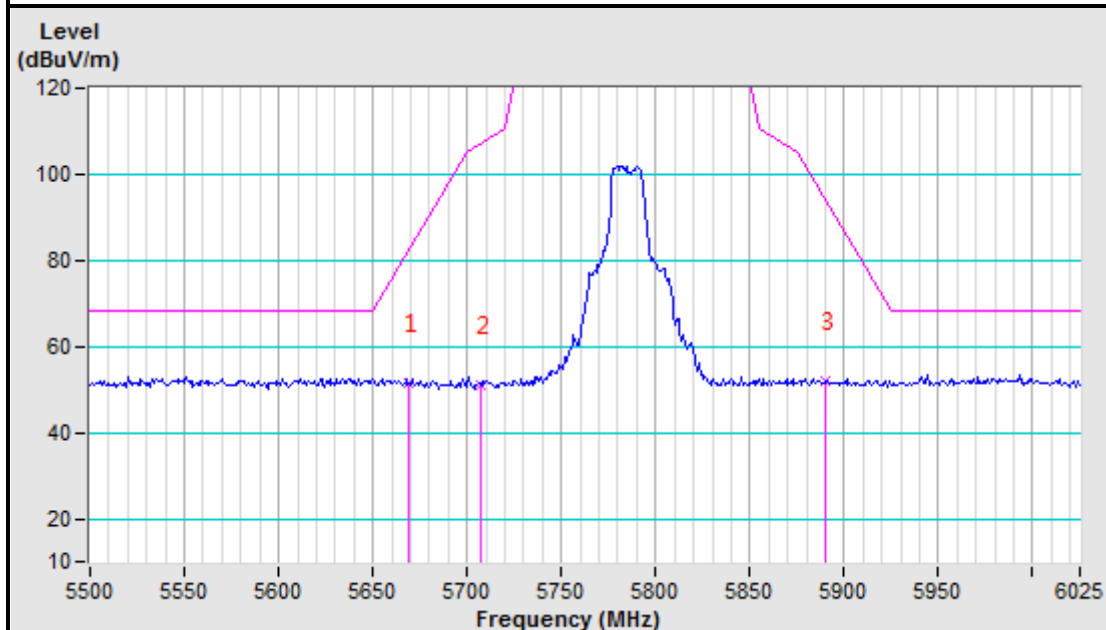
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5669.47	51.25 PK	82.65	-31.40	1.77 H	0	41.50	9.75
2	#5707.33	50.90 PK	107.26	-56.36	1.77 H	0	41.01	9.89
3	*5785.00	102.02 PK			1.00 H	140	91.84	10.18
4	*5785.00	91.55 AV			1.00 H	140	81.37	10.18
5	#5890.38	51.83 PK	93.78	-41.95	1.77 H	0	41.25	10.58
6	11570.00	61.26 PK	74.00	-12.74	1.00 H	0	40.60	20.66
7	11570.00	47.10 AV	54.00	-6.90	1.00 H	0	26.44	20.66
8	#17475.00	64.05 PK	68.20	-4.15	1.00 H	0	36.44	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	#5658.53	51.95 PK	74.54	-22.59	1.00 V	0	42.24	9.71
2	#5715.75	51.25 PK	109.61	-58.36	1.00 V	0	41.32	9.93
3	*5785.00	101.24 PK			1.00 V	10	91.06	10.18
4	*5785.00	90.40 AV			1.00 V	10	80.22	10.18
5	#5856.73	51.21 PK	110.31	-59.10	1.00 V	0	40.76	10.45
6	11570.00	63.85 PK	74.00	-10.15	1.00 V	0	43.19	20.66
7	11570.00	50.10 AV	54.00	-3.90	1.00 V	0	29.44	20.66
8	#17355.00	64.11 PK	68.20	-4.09	1.00 V	0	36.65	27.46

REMARKS:

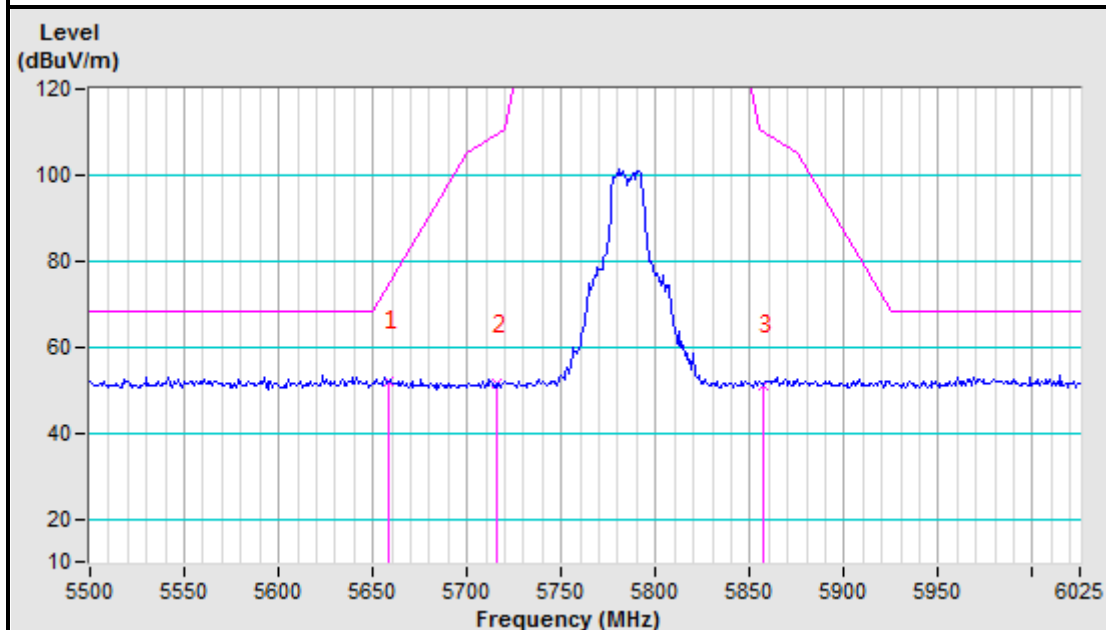
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The emission levels of other frequencies were greater than 20dB margin.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.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

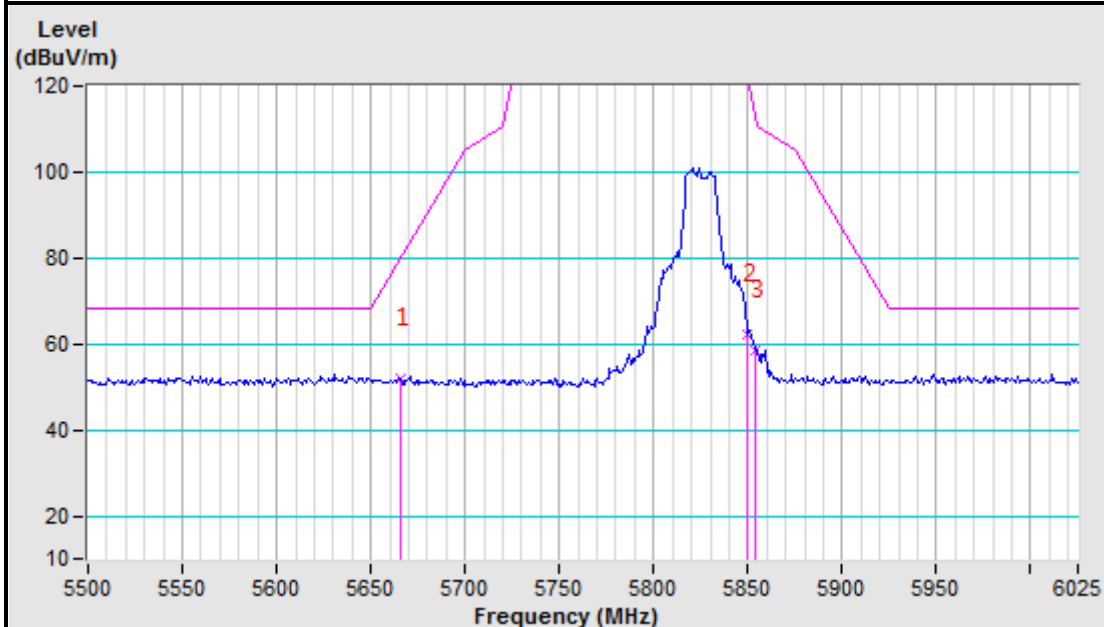
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5666.11	52.02 PK	80.15	-28.13	1.00 H	0	42.28	9.74
2	*5825.00	100.79 PK			1.00 H	33	90.46	10.33
3	*5825.00	90.06 AV			1.00 H	33	79.73	10.33
4	#5850.00	62.22 PK	122.20	-59.98	1.00 H	0	51.80	10.42
5	#5854.21	58.51 PK	112.61	-54.10	1.00 H	0	48.08	10.43
6	11650.00	61.07 PK	74.00	-12.93	1.00 H	0	40.23	20.84
7	11650.00	48.90 AV	54.00	-5.10	1.00 H	0	28.06	20.84
8	#17475.00	63.00 PK	68.20	-5.20	1.00 H	0	35.39	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	#5706.49	51.22 PK	107.02	-55.80	1.49 V	0	41.33	9.89
2	*5825.00	97.77 PK			1.00 V	24	87.44	10.33
3	*5825.00	86.61 AV			1.00 V	24	76.28	10.33
4	#5850.00	61.88 PK	122.20	-60.32	1.49 V	0	51.46	10.42
5	#5855.89	55.18 PK	110.55	-55.37	1.49 V	0	44.73	10.45
6	11650.00	62.67 PK	74.00	-11.33	1.00 V	0	41.83	20.84
7	11650.00	49.66 AV	54.00	-4.34	1.00 V	0	28.82	20.84
8	#17475.00	63.05 PK	68.20	-5.15	1.00 V	0	35.44	27.61

REMARKS:

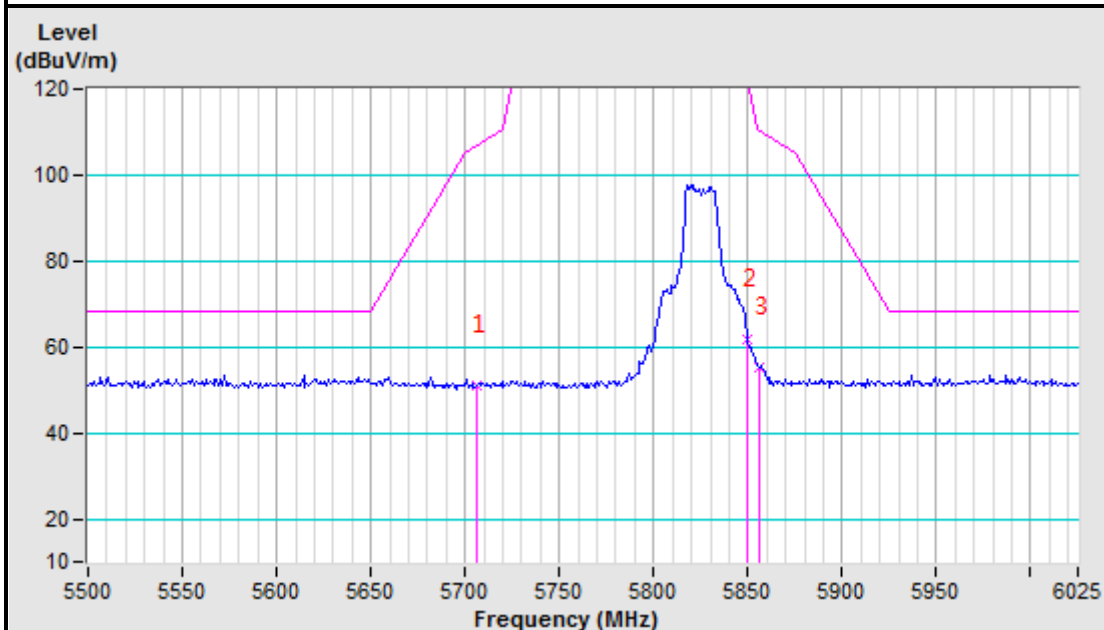
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The emission levels of other frequencies were greater than 20dB margin.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.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

Band edge Plot

5825MHz Horizontal



5825MHz Vertical





**BUREAU
VERITAS**

Test Report No.: RF200720N073-2

802.11n (20MHz)

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

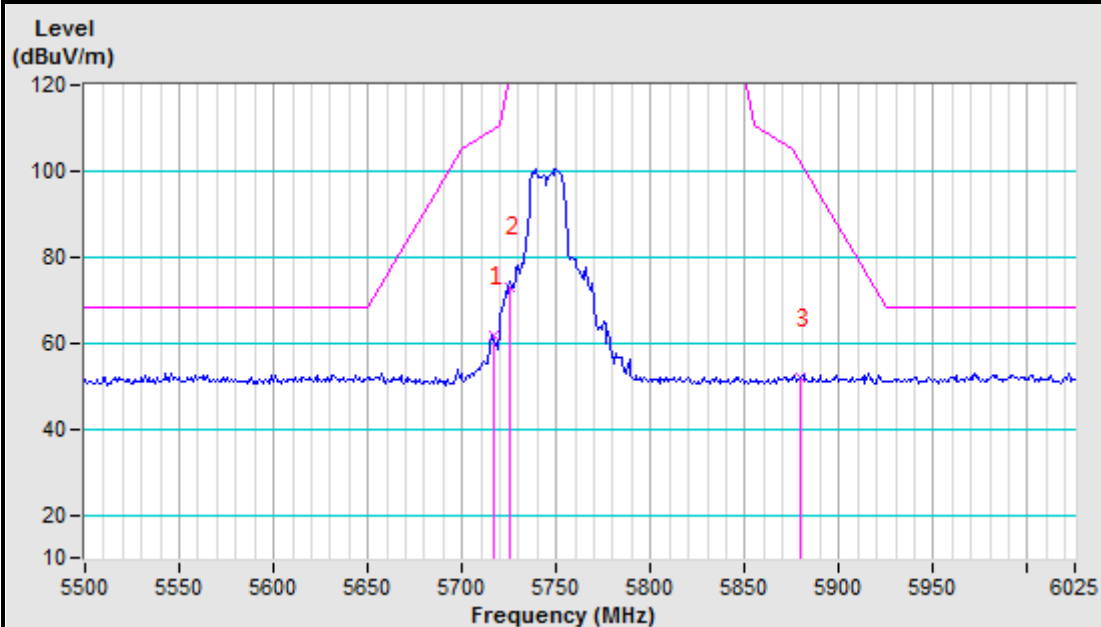
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5716.59	61.54 PK	109.85	-48.31	1.93 H	0	51.61	9.93
2	#5725.00	72.99 PK	122.20	-49.21	1.93 H	0	63.03	9.96
3	*5745.00	100.55 PK			1.00 H	33	90.52	10.03
4	*5745.00	90.80 AV			1.00 H	33	80.77	10.03
5	#5879.45	51.76 PK	101.90	-50.14	1.93 H	0	41.23	10.53
6	11490.00	60.77 PK	74.00	-13.23	1.00 H	0	40.28	20.49
7	11490.00	48.80 AV	54.00	-5.20	1.00 H	0	28.31	20.49
8	#17355.00	63.98 PK	68.20	-4.22	1.00 H	0	36.52	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	#5716.59	59.31 PK	109.85	-50.54	1.17 V	0	49.38	9.93
2	#5725.00	69.17 PK	122.20	-53.03	1.17 V	0	59.21	9.96
3	*5745.00	97.68 PK			1.00 V	54	87.65	10.03
4	*5745.00	87.01 AV			1.00 V	54	76.98	10.03
5	#5863.46	51.59 PK	108.43	-56.84	1.17 V	0	41.12	10.47
6	11490.00	63.44 PK	74.00	-10.56	1.00 V	0	42.95	20.49
7	11490.00	50.50 AV	54.00	-3.50	1.00 V	0	30.01	20.49
8	#17235.00	64.02 PK	68.20	-4.18	1.00 V	0	36.71	27.31

REMARKS:

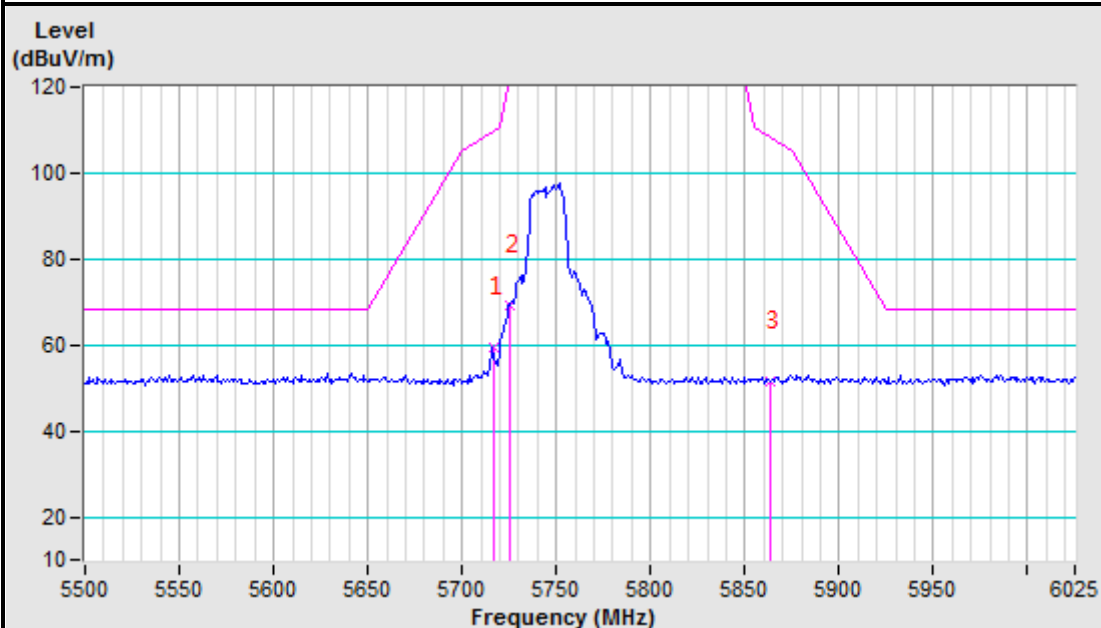
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The emission levels of other frequencies were greater than 20dB margin.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.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

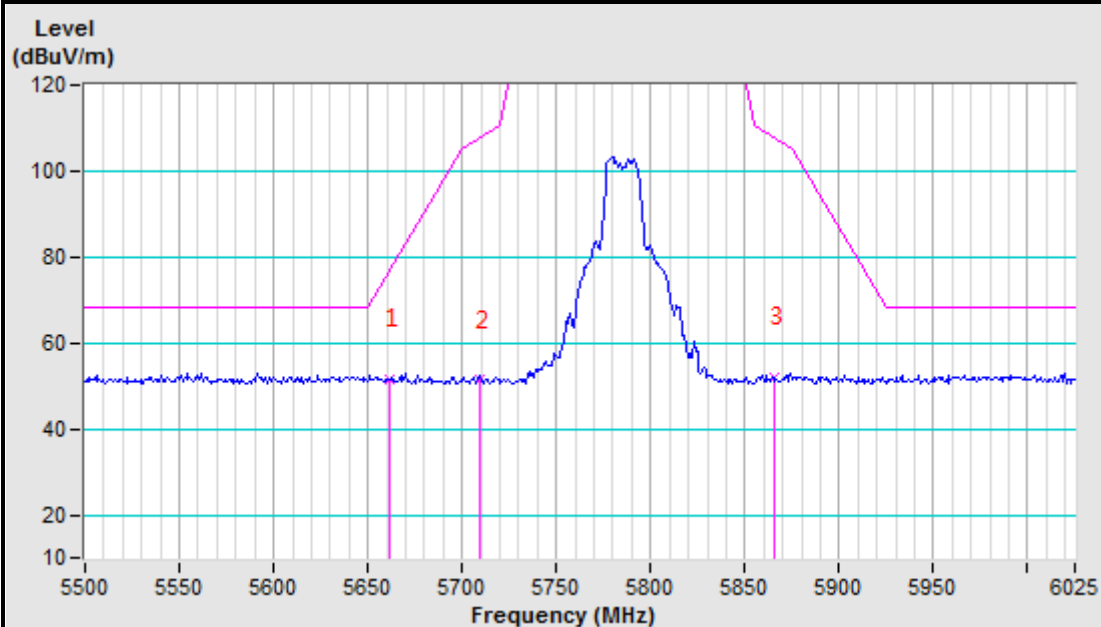
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5661.90	51.59 PK	77.03	-25.44	1.00 H	0	41.87	9.72
2	#5709.01	51.34 PK	107.73	-56.39	1.00 H	0	41.44	9.90
3	*5785.00	103.34 PK			1.00 H	20	93.16	10.18
4	*5785.00	92.76 AV			1.00 H	20	82.58	10.18
5	#5865.14	52.01 PK	107.96	-55.95	1.00 H	0	41.53	10.48
6	11570.00	60.77 PK	74.00	-13.23	1.00 H	0	40.11	20.66
7	11570.00	48.90 AV	54.00	-5.10	1.00 H	0	28.24	20.66
8	#17355.00	63.12 PK	68.20	-5.08	1.00 H	0	35.66	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	#5645.07	51.80 PK	68.20	-16.40	1.02 V	0	42.14	9.66
2	#5701.44	50.26 PK	105.60	-55.34	1.02 V	0	40.39	9.87
3	*5785.00	100.07 PK			1.00 V	35	89.89	10.18
4	*5785.00	91.00 AV			1.00 V	35	80.82	10.18
5	#5903.85	51.26 PK	83.82	-32.56	1.02 V	0	40.64	10.62
6	11570.00	61.68 PK	74.00	-12.32	1.00 V	0	41.02	20.66
7	11570.00	49.70 AV	54.00	-4.30	1.00 V	0	29.04	20.66
8	#17355.00	63.12 PK	68.20	-5.08	1.00 V	0	35.66	27.46

REMARKS:

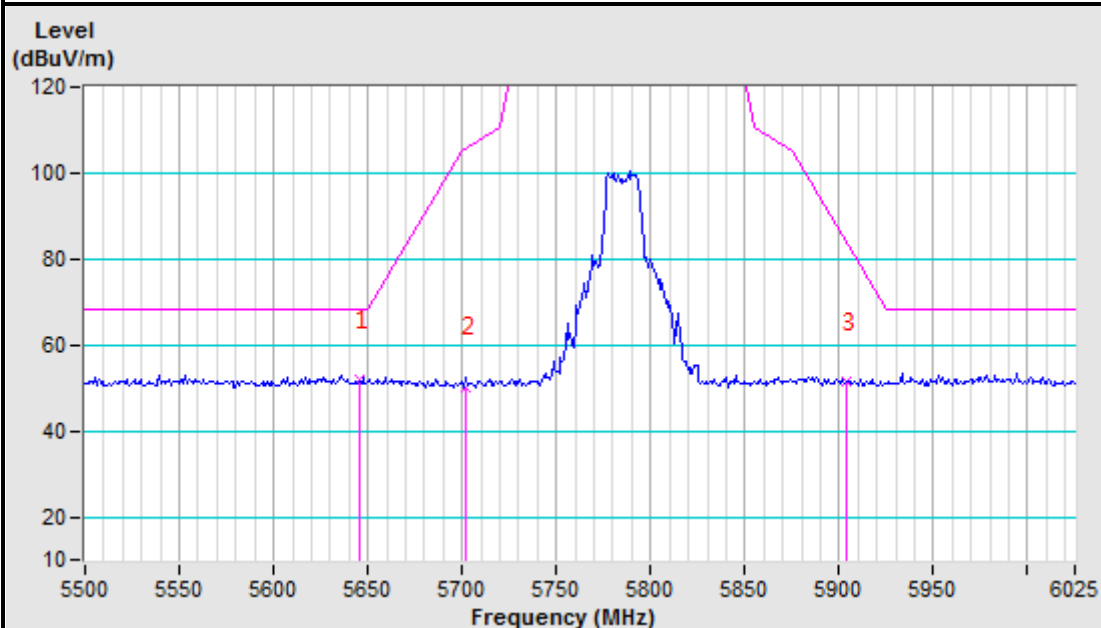
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The emission levels of other frequencies were greater than 20dB margin.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.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

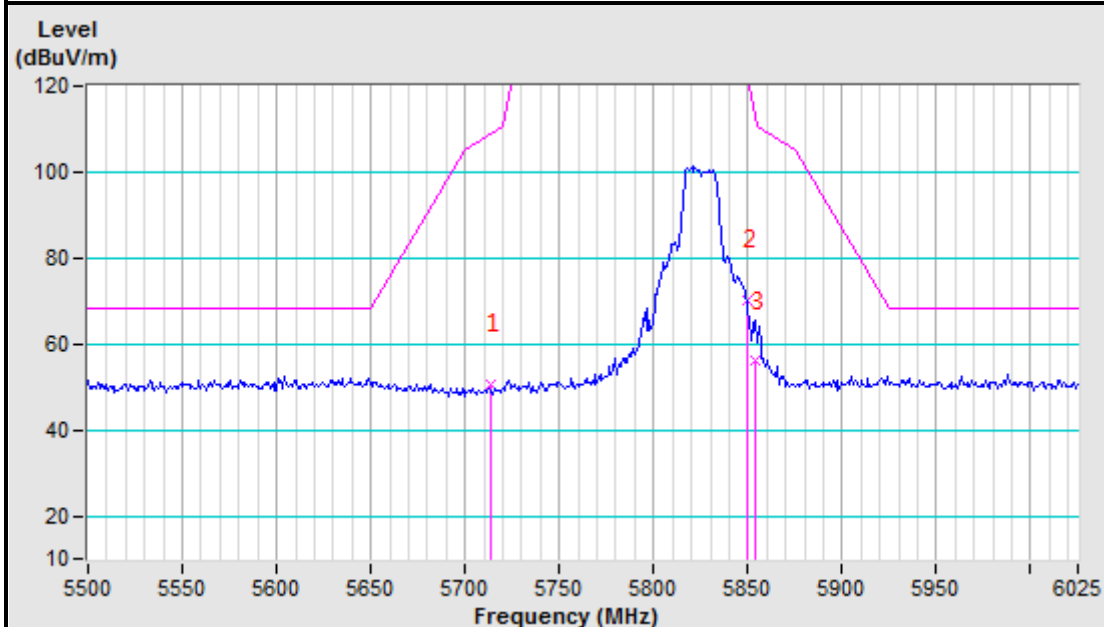
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5714.06	50.62 PK	109.14	-58.52	2.00 H	268	40.71	9.91
2	*5825.00	100.67 PK			1.00 H	152	90.34	10.33
3	*5825.00	91.66 AV			1.00 H	152	81.33	10.33
4	#5850.00	70.27 PK	122.20	-51.93	2.00 H	268	59.85	10.42
5	#5854.26	55.91 PK	112.48	-56.57	2.00 H	268	45.48	10.43
6	11650.00	61.34 PK	74.00	-12.66	1.00 H	0	40.50	20.84
7	11650.00	48.17 AV	54.00	-5.83	1.00 H	0	27.33	20.84
8	#17475.00	64.70 PK	68.20	-3.50	1.00 H	0	37.09	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	#5684.62	49.96 PK	93.85	-43.89	1.00 V	224	40.15	9.81
2	*5825.00	97.52 PK			1.00 V	147	87.19	10.33
3	*5825.00	88.12 AV			1.00 V	147	77.79	10.33
4	#5850.00	64.62 PK	122.20	-57.58	1.00 V	224	54.20	10.42
5	#5874.40	52.35 PK	105.37	-53.02	1.00 V	224	41.83	10.52
6	11650.00	60.21 PK	74.00	-13.79	1.00 V	0	39.37	20.84
7	11650.00	48.35 AV	54.00	-5.65	1.00 V	0	27.51	20.84
8	#17475.00	63.92 PK	68.20	-4.28	1.00 V	0	36.31	27.61

REMARKS:

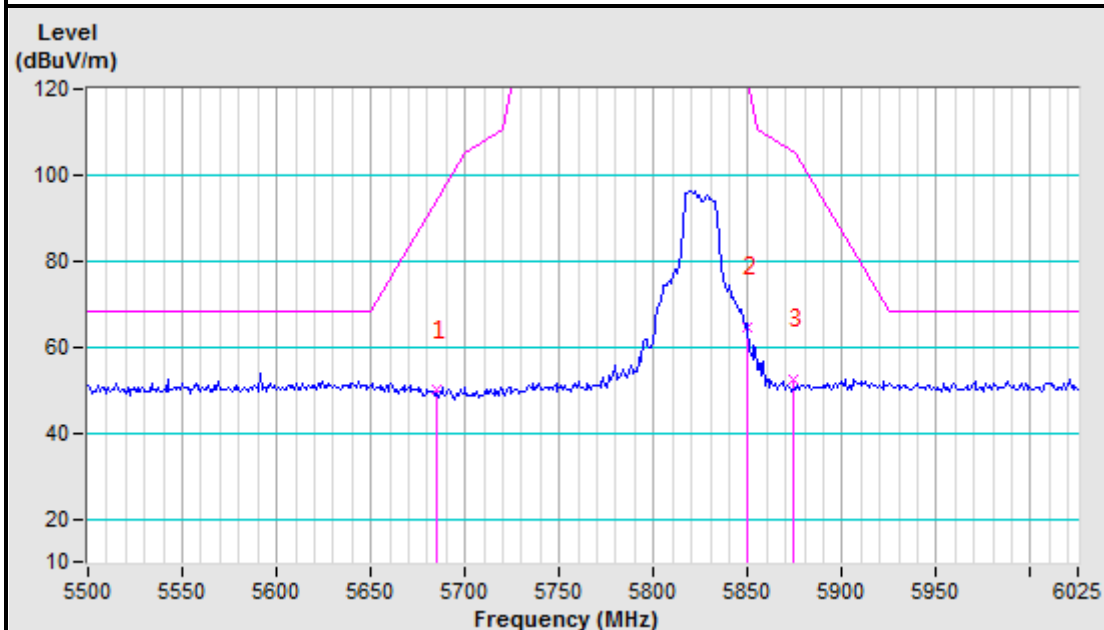
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The emission levels of other frequencies were greater than 20dB margin.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.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

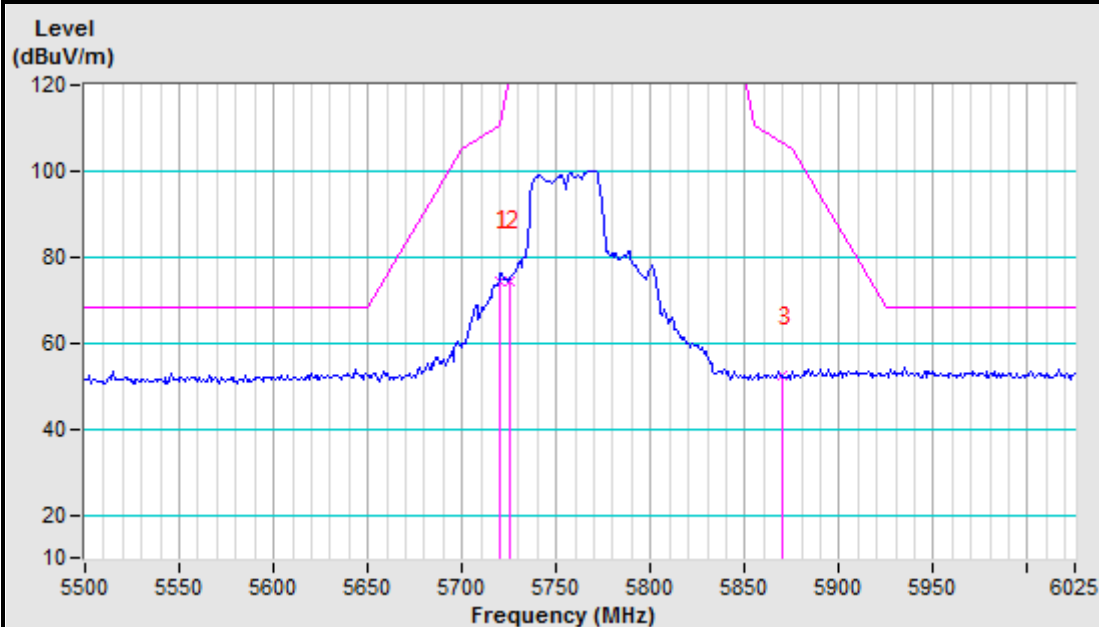
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5719.95	74.33 PK	110.79	-36.46	1.00 H	267	64.39	9.94
2	#5725.00	74.39 PK	122.20	-47.81	1.00 H	267	64.43	9.96
3	*5755.00	100.11 PK			1.00 H	195	90.04	10.07
4	*5755.00	89.80 AV			1.00 H	195	79.73	10.07
5	#5870.19	52.23 PK	74.00	-21.77	1.00 H	267	41.73	10.50
6	11510.00	61.42 PK	74.00	-12.58	1.00 H	0	40.89	20.53
7	11510.00	48.64 AV	54.00	-5.36	1.00 H	0	28.11	20.53
8	#17265.00	63.95 PK	68.20	-4.25	1.00 H	0	36.60	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	#5719.95	58.07 PK	110.79	-52.72	1.00 V	226	48.13	9.94
2	#5725.00	67.11 PK	122.20	-55.09	1.00 V	226	57.15	9.96
3	*5755.00	95.35 PK			1.00 V	63	85.28	10.07
4	*5755.00	84.42 AV			1.00 V	63	74.35	10.07
5	#5858.41	51.54 PK	109.84	-58.30	1.00 V	226	41.09	10.45
6	11510.00	61.21 PK	74.00	-12.79	1.00 V	0	40.68	20.53
7	11510.00	48.48 AV	54.00	-5.52	1.00 V	0	27.95	20.53
8	#17265.00	63.85 PK	68.20	-4.35	1.00 V	0	36.50	27.35

REMARKS:

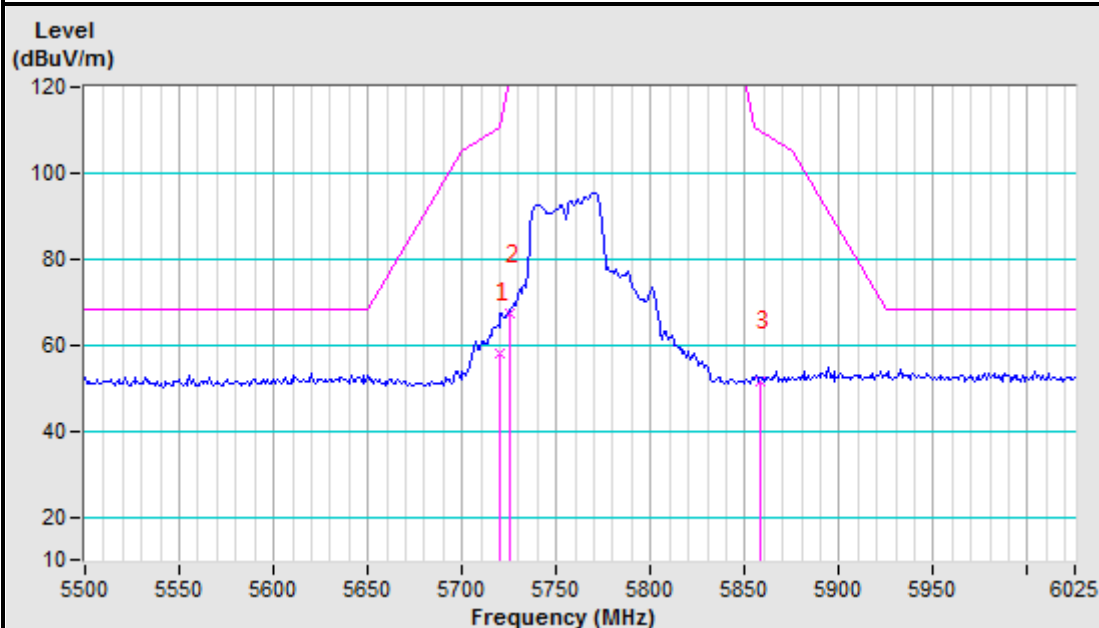
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The emission levels of other frequencies were greater than 20dB margin.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.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

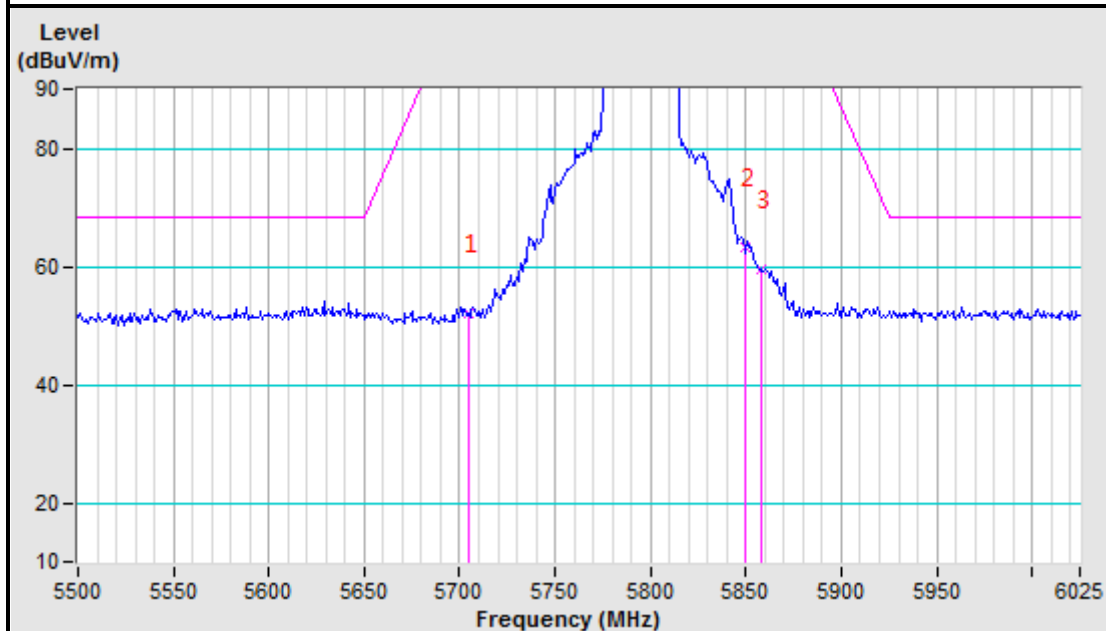
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5704.81	52.17 PK	106.55	-54.38	1.00 H	270	42.29	9.88
2	*5795.00	102.02 PK			1.00 H	144	91.80	10.22
3	*5795.00	90.94 AV			1.00 H	144	80.72	10.22
4	#5850.00	63.28 PK	122.20	-58.92	1.00 H	270	52.86	10.42
5	#5858.41	59.48 PK	109.84	-50.36	1.00 H	270	49.03	10.45
6	11590.00	61.25 PK	74.00	-12.75	1.00 H	0	40.54	20.71
7	11590.00	48.62 AV	54.00	-5.38	1.00 H	0	27.91	20.71
8	#17385.00	62.84 PK	68.20	-5.36	1.00 H	0	35.34	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	#5712.38	51.05 PK	108.67	-57.62	1.00 V	212	41.14	9.91
2	*5795.00	95.81 PK			1.00 V	215	85.59	10.22
3	*5795.00	86.26 AV			1.00 V	215	76.04	10.22
4	#5850.00	57.85 PK	122.20	-64.35	1.00 V	212	47.43	10.42
5	#5858.41	55.05 PK	109.84	-54.79	1.00 V	212	44.60	10.45
6	11590.00	60.32 PK	74.00	-13.68	1.00 V	0	39.61	20.71
7	11590.00	48.18 AV	54.00	-5.82	1.00 V	0	27.47	20.71
8	#17385.00	62.15 PK	68.20	-6.05	1.00 V	0	34.65	27.50

REMARKS:

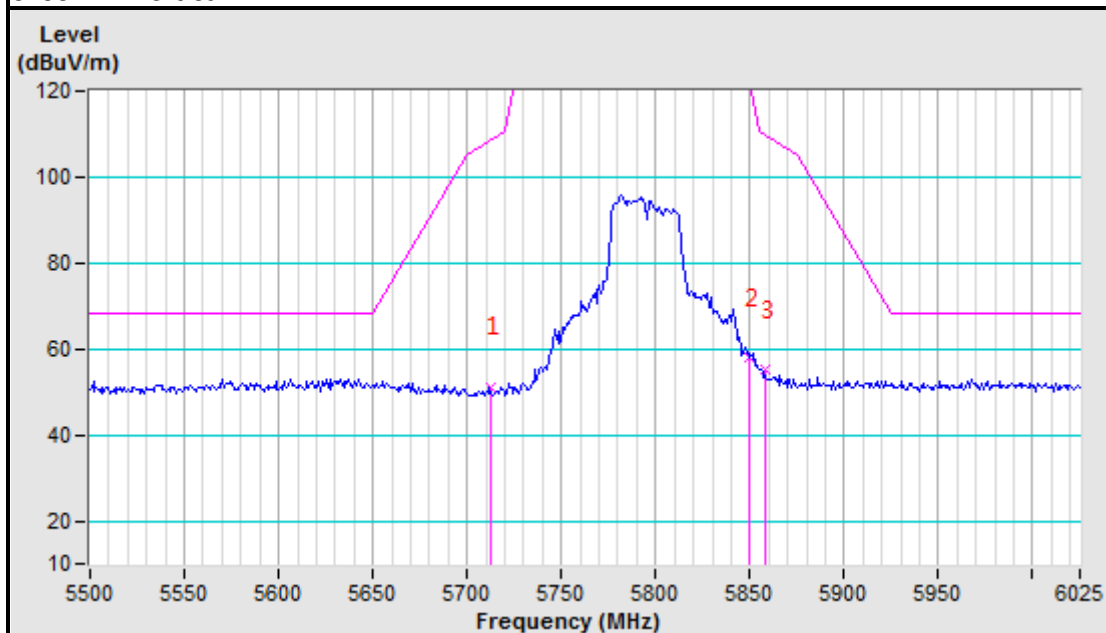
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The emission levels of other frequencies were greater than 20dB margin.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.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

Band edge Plot

5795MHz Horizontal



5795MHz Vertical





Test Report No.: RF200720N073-2

BUREAU
VERITAS

802.11ac 80MHz

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

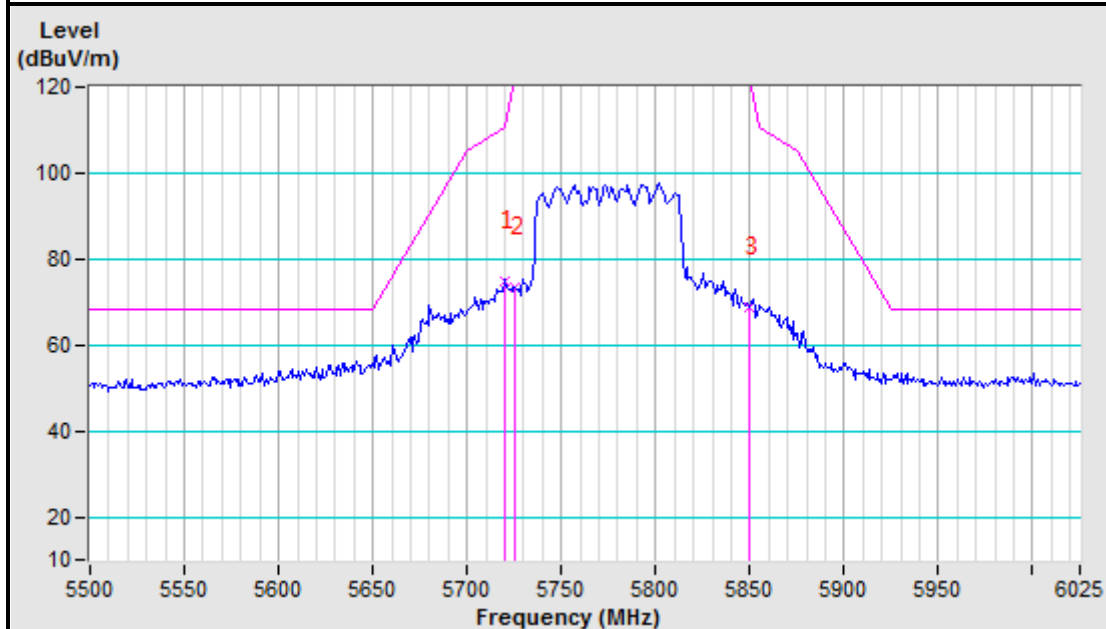
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5719.95	74.79 PK	110.79	-36.00	1.00 H	281	64.85	9.94
2	#5725.00	73.42 PK	122.20	-48.78	1.00 H	281	63.46	9.96
3	*5775.00	98.08 PK			1.00 H	152	87.94	10.14
4	*5775.00	84.05 AV			1.00 H	152	73.91	10.14
5	#5850.00	68.87 PK	122.20	-53.33	1.00 H	281	58.45	10.42
6	11550.00	60.38 PK	74.00	-13.62	1.00 H	0	39.76	20.62
7	11550.00	48.52 AV	54.00	-5.48	1.00 H	0	27.90	20.62
8	#17325.00	63.54 PK	68.20	-4.66	1.00 H	0	36.11	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	#5719.11	68.44 PK	110.55	-42.11	1.76 V	46	58.50	9.94
2	#5725.00	69.78 PK	122.20	-52.42	1.76 V	46	59.82	9.96
3	*5775.00	93.65 PK			1.00 V	142	83.51	10.14
4	*5775.00	77.35 AV			1.00 V	142	67.21	10.14
5	#5850.00	53.60 PK	122.20	-68.60	1.76 V	46	43.18	10.42
6	11550.00	61.12 PK	74.00	-12.88	1.00 V	0	40.50	20.62
7	11550.00	48.21 AV	54.00	-5.79	1.00 V	0	27.59	20.62
8	#17325.00	63.51 PK	68.20	-4.69	1.00 V	0	36.08	27.43

REMARKS:

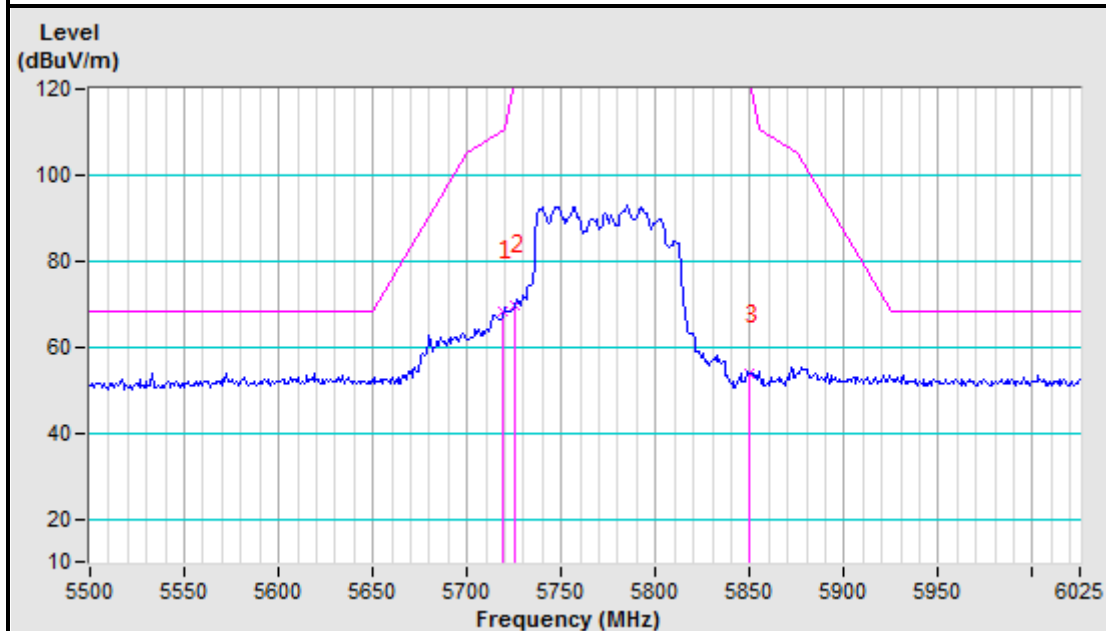
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The emission levels of other frequencies were greater than 20dB margin.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.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

3.2.3 TEST PROCEDURES

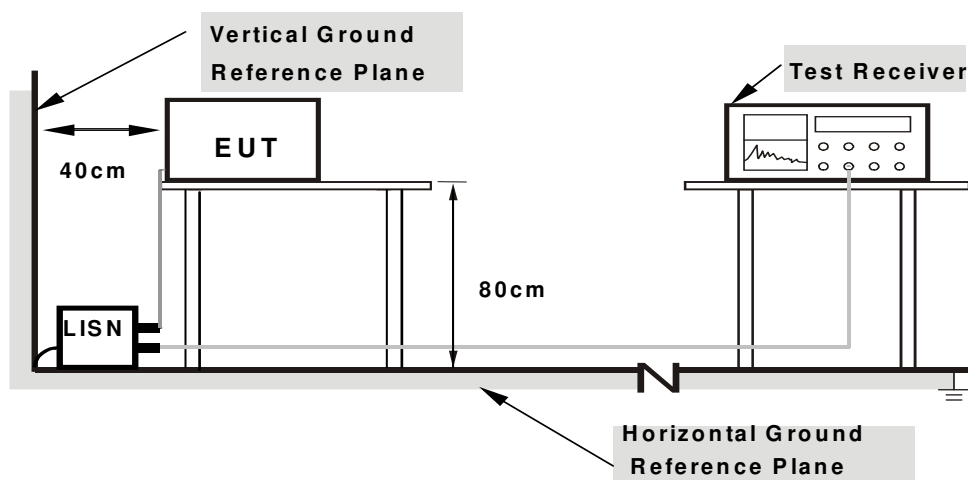
- The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling impedance 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 3.1.6

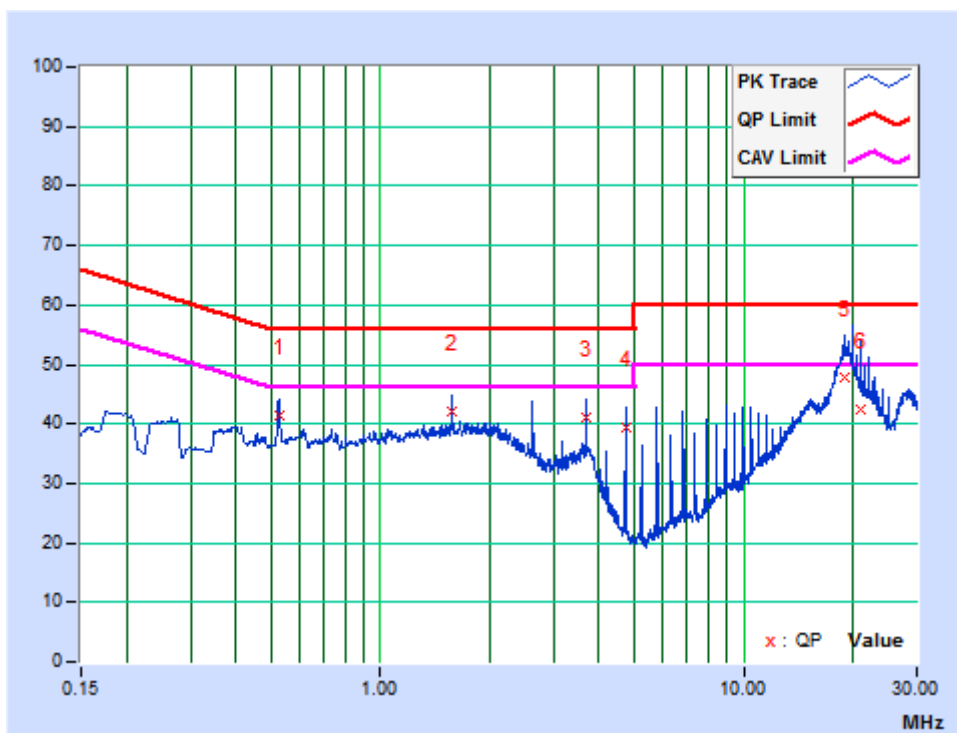
3.2.7 TEST RESULTS

CONDUCTED WORST-CASE DATA: 802.11a

PHASE	Line	6dB BANDWIDTH	9kHz
-------	------	---------------	------

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	0.52523	9.78	31.72	30.29	41.50	40.07	56.00	46.00	-14.50	-5.93
2	1.57533	9.83	32.34	30.73	42.17	40.56	56.00	46.00	-13.83	-5.44
3	3.67575	9.87	31.37	32.10	41.24	41.97	56.00	46.00	-14.76	-4.03
4	4.72425	9.89	29.57	28.78	39.46	38.67	56.00	46.00	-16.54	-7.33
5	18.89475	10.25	37.48	30.06	47.73	40.31	60.00	50.00	-12.27	-9.69
6	20.99400	10.29	32.01	24.90	42.30	35.19	60.00	50.00	-17.70	-14.81

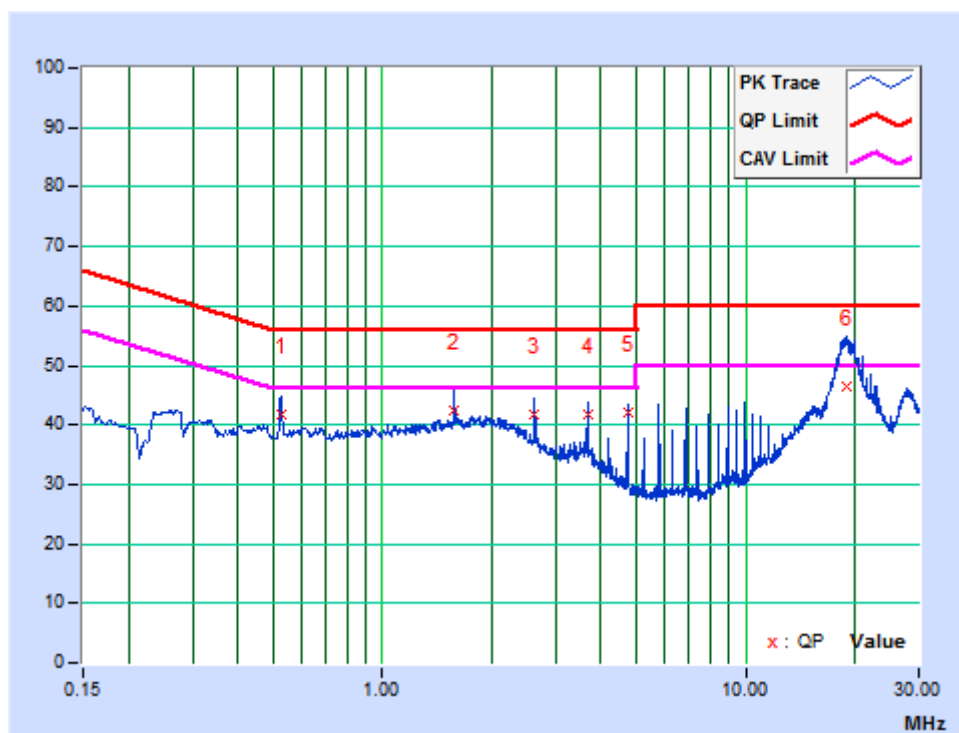
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. The emission levels of other frequencies were very low against the limit.
 3. Margin value = Emission level - Limit value
 4. Correction factor = Insertion loss + Cable loss
 5. Emission Level = Correction Factor + 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	0.52523	9.76	32.07	30.27	41.83	40.03	56.00	46.00	-14.17	-5.97
2	1.57650	9.80	32.72	30.68	42.52	40.48	56.00	46.00	-13.48	-5.52
3	2.62725	9.83	31.85	30.69	41.68	40.52	56.00	46.00	-14.32	-5.48
4	3.67800	9.85	32.00	31.45	41.85	41.30	56.00	46.00	-14.15	-4.70
5	4.72875	9.86	32.16	31.94	42.02	41.80	56.00	46.00	-13.98	-4.20
6	19.01625	10.26	36.34	28.61	46.60	38.87	60.00	50.00	-13.40	-11.13

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.



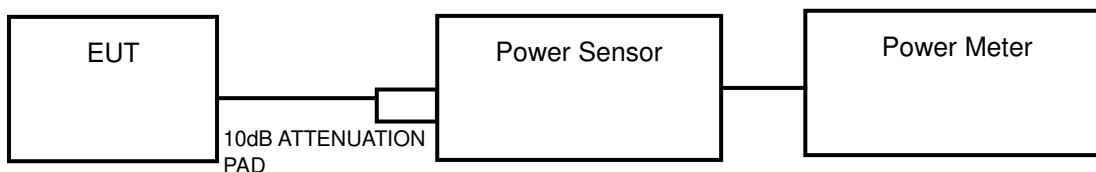
3.3 TRANSMIT POWER MEASUREMENT

3.3.1 LIMITS OF TRANSMIT POWER MEASUREMENT

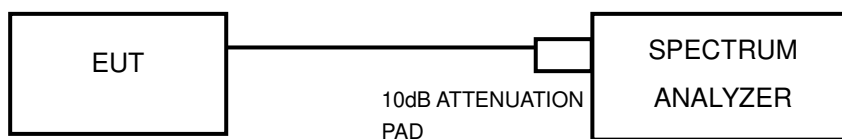
Operation Band	EUT Category		LIMIT
U-NII-1		Outdoor Access Point	1 Watt (30 dBm) (Max. e.i.r.p $\leq$ 125mW(21 dBm) at any elevation angle above 30 degrees as measured from the horizon)
		Fixed point-to-point Access Point	1 Watt (30 dBm)
		Indoor Access Point	1 Watt (30 dBm)
	√	Mobile and Portable client 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. 30,21
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, GREGT/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%.



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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	11.26	13.37	24.00	PASS
40	5200	11.36	13.68	24.00	PASS
48	5240	11.64	14.59	24.00	PASS
149	5745	10.46	11.12	30.00	PASS
157	5785	10.68	11.69	30.00	PASS
165	5825	10.50	11.22	30.00	PASS

802.11n (20MHz)

Channel Number	FREQ. (MHz)	AVG. CONDUCTED POWER (dBm)	AVG. CONDUCTED POWER (mW)	LIMIT (dBm)	PASS /FAIL
36	5180	11.38	13.74	24.00	PASS
40	5200	11.14	13.00	24.00	PASS
48	5240	11.98	15.78	24.00	PASS
149	5745	11.11	12.91	30.00	PASS
157	5785	10.67	11.67	30.00	PASS
165	5825	10.62	11.54	30.00	PASS

802.11n (40MHz)

Channel Number	FREQ. (MHz)	AVG. CONDUCTED POWER (dBm)	AVG. CONDUCTED POWER (mW)	LIMIT (dBm)	PASS /FAIL
38	5190	11.58	14.39	24.00	PASS
46	5230	11.56	14.32	24.00	PASS
151	5755	10.65	11.61	30.00	PASS
159	5795	10.67	11.67	30.00	PASS

802.11ac (80MHz)

Channel Number	FREQ. (MHz)	AVG. CONDUCTED POWER (dBm)	AVG. CONDUCTED POWER (mW)	LIMIT (dBm)	PASS /FAIL
42	5210	11.60	14.45	24.00	PASS
155	5775	10.43	11.04	30.00	PASS

26dB BANDWIDTH for 5150-5250MHz:

802.11a

Channel Number	Freq. (MHz)	26dB DOWN BANDWIDTH (MHz)	PASS /FAIL
36	5180	21.64	PASS
40	5200	21.30	PASS
48	5240	21.58	PASS

802.11n (20MHz)

Channel Number	Freq. (MHz)	26dB DOWN BANDWIDTH (MHz)	PASS /FAIL
36	5180	22.05	PASS
40	5200	22.15	PASS
48	5240	21.95	PASS

802.11n (40MHz)

Channel Number	Freq. (MHz)	26dB DOWN BANDWIDTH (MHz)	PASS /FAIL
38	5190	44.28	PASS
46	5230	45.02	PASS

802.11ac (80MHz)

Channel Number	Freq. (MHz)	26dB DOWN BANDWIDTH (MHz)	PASS /FAIL
42	5210	83.55	PASS

6dB BANDWIDTH for 5725-5850MHz

802.11a

Channel Number	Freq. (MHz)	6dB DOWN BANDWIDTH (MHz)	PASS /FAIL
149	5745	16.60	PASS
157	5785	16.59	PASS
165	5825	16.62	PASS

802.11n (20M)

Channel Number	Freq. (MHz)	6dB DOWN BANDWIDTH (MHz)	PASS /FAIL
149	5745	17.73	PASS
157	5785	17.73	PASS
165	5825	17.74	PASS

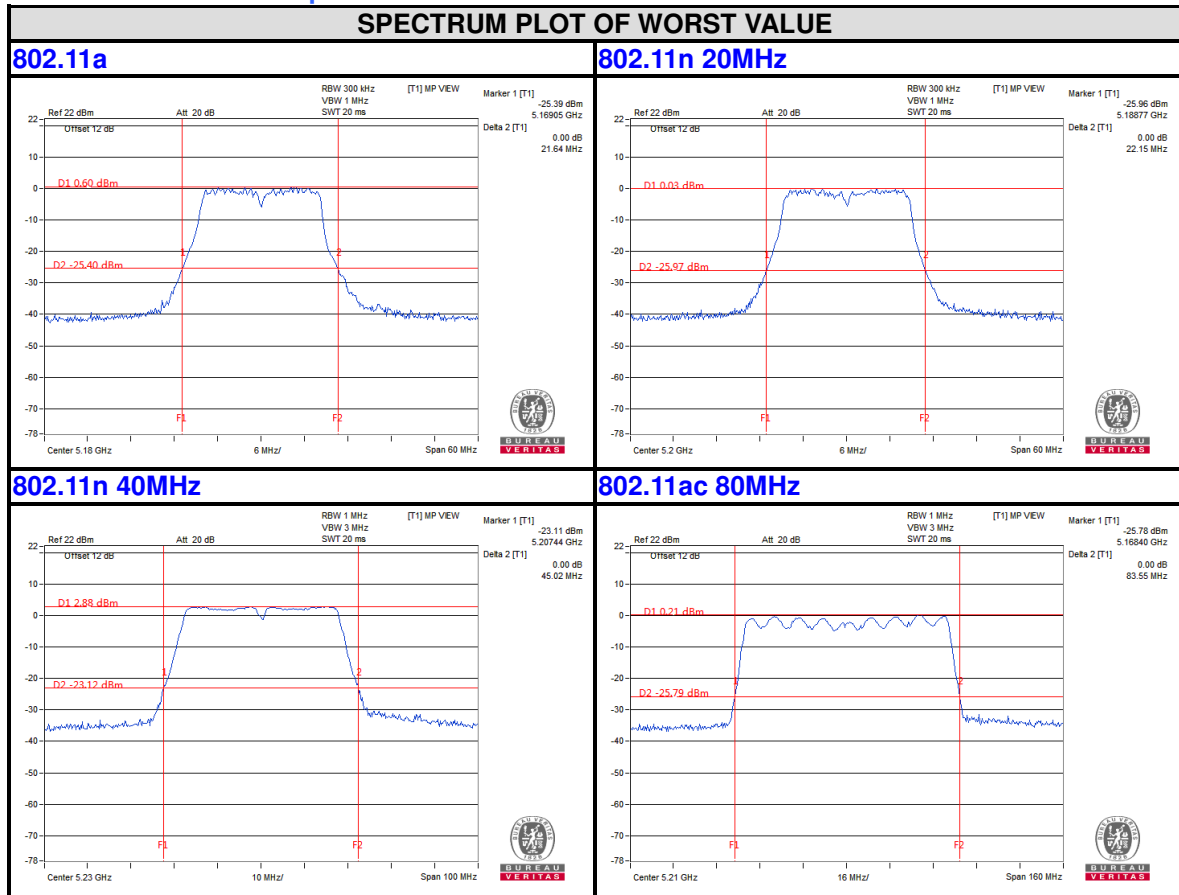
802.11n (40M)

Channel Number	Freq. (MHz)	6dB DOWN BANDWIDTH (MHz)	PASS /FAIL
151	5755	36.61	PASS
159	5795	36.61	PASS

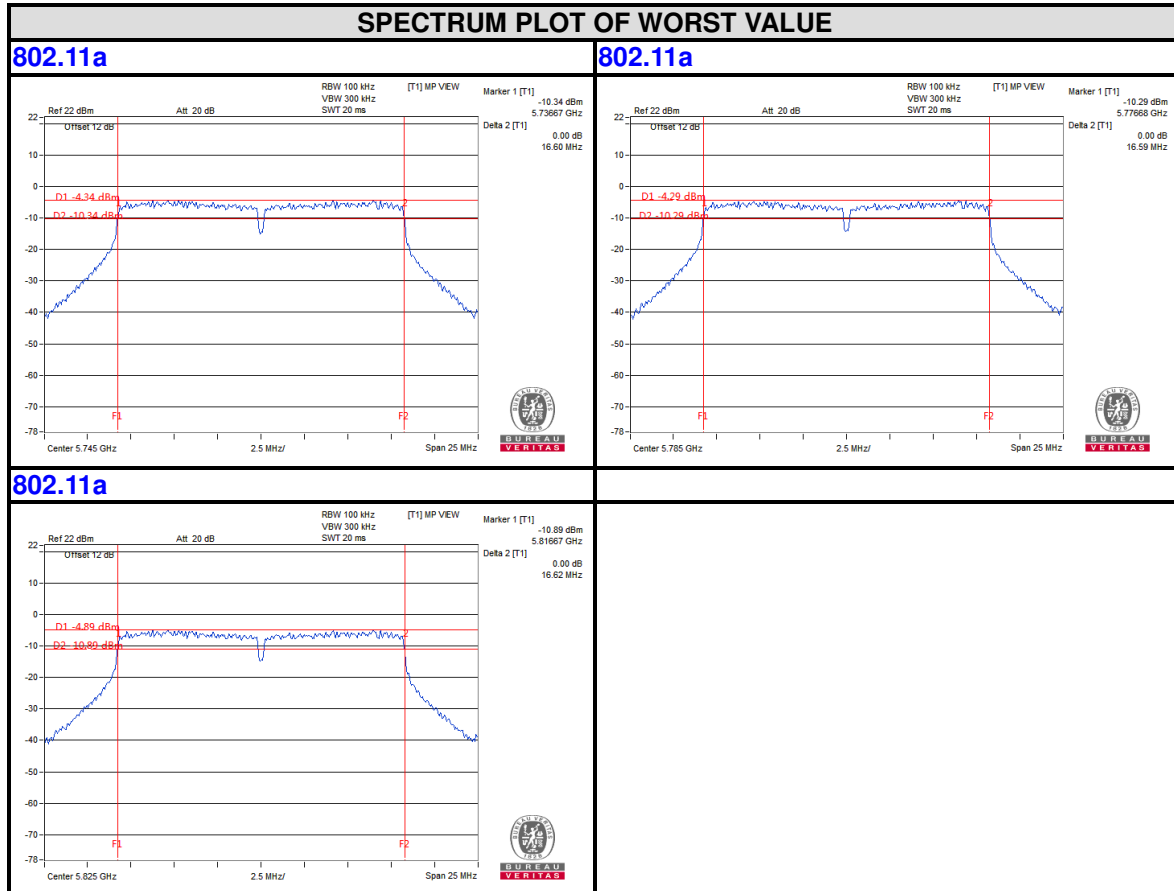
802.11ac (80MHz)

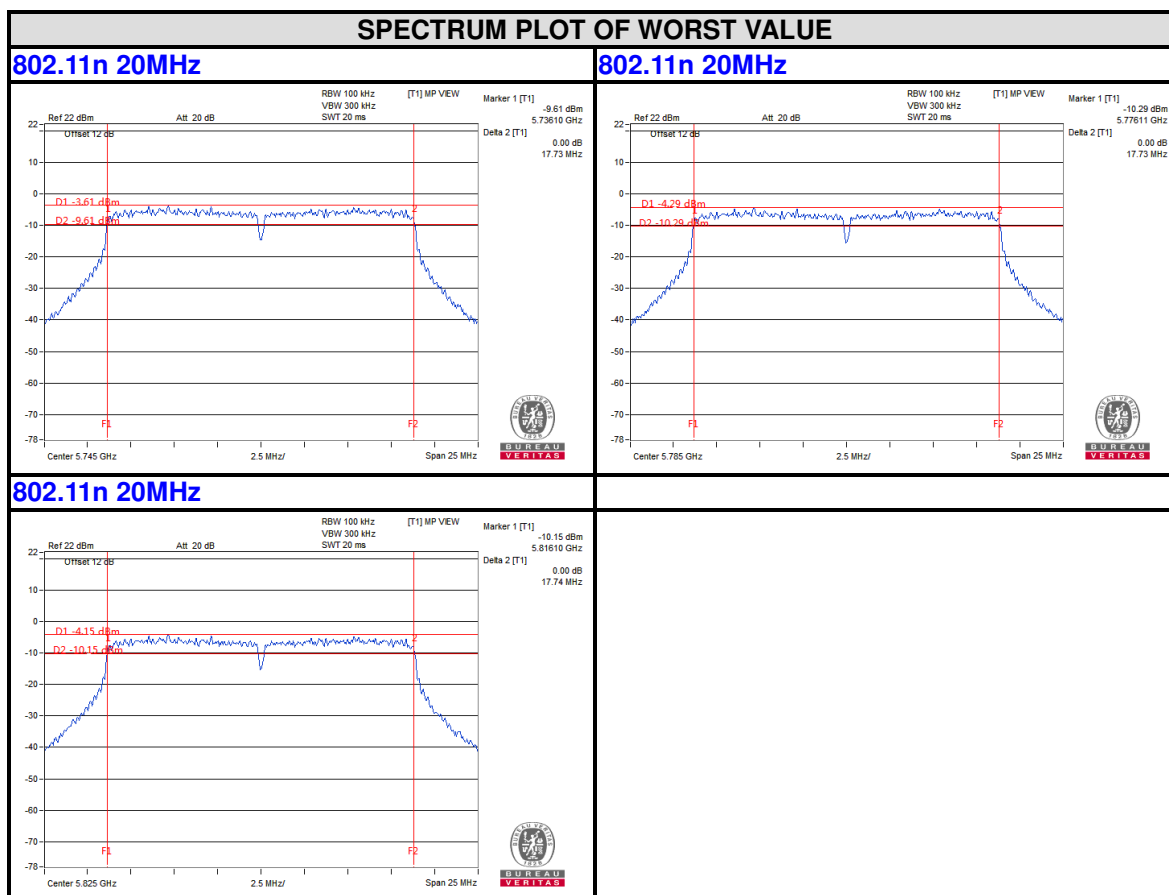
Channel Number	Freq. (MHz)	6dB DOWN BANDWIDTH (MHz)	PASS /FAIL
155	5775	76.67	PASS

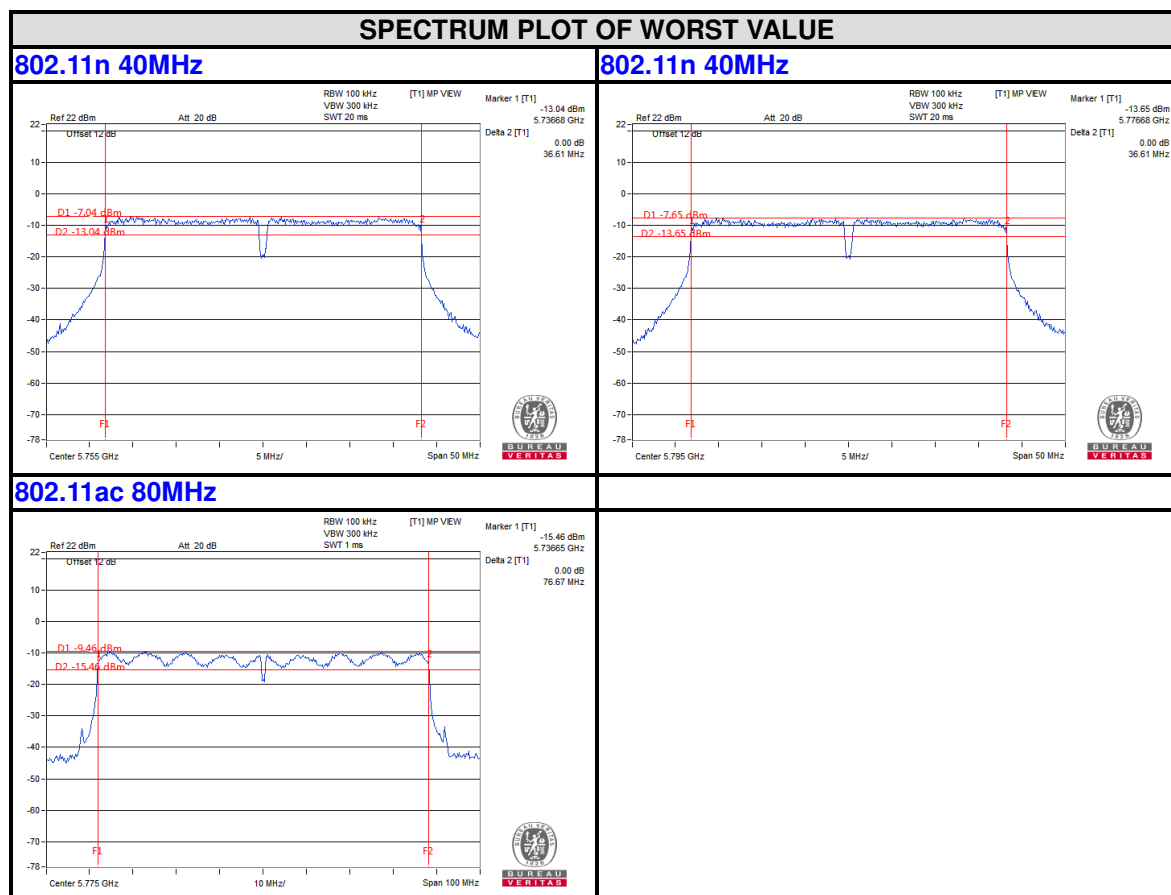
26dB bandwidth Test Plot
For 5150-5250MHz worst plot



6dB BANDWIDTH For 5725-5850MHz





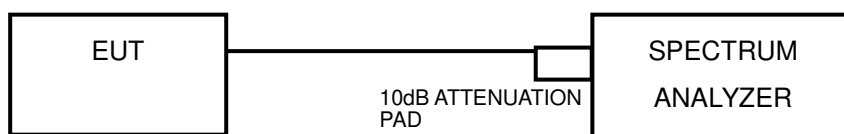


3.4 PEAK POWER SPECTRAL DENSITY MEASUREMENT

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)



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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

802.11a

Channel Number	Frequency (MHz)	RF Power Level in 1MHz BW (dBm)		MAX. Limit (dBm)	PASS / FAIL
36	5180	-3.27		11.00	PASS
40	5200	-3.17		11.00	PASS
48	5240	-2.98		11.00	PASS
Channel Number	Frequency (MHz)	RF Power Level in 300kHz BW (dBm)	RF Power Level in 500kHz BW (dBm)	MAX. Limit (dBm/500k)	PASS / FAIL
149	5745	-11.14	-8.92	30.00	PASS
157	5785	-11.47	-9.25	30.00	PASS
165	5825	-11.85	-9.63	30.00	PASS

802.11n (20MHz)

Channel Number	Frequency (MHz)	EIRP Power Level in 1MHz BW (dBm)		MAX. EIRP Limit (dBm)	PASS / FAIL
36	5180	-3.54		10.00	PASS
40	5200	-3.57		10.00	PASS
48	5240	-3.37		10.00	PASS
Channel Number	Frequency (MHz)	RF Power Level in 300kHz BW (dBm)	RF Power Level in 500kHz BW (dBm)	MAX. Limit (dBm/500k)	PASS / FAIL
149	5745	-11.47	-9.25	30.00	PASS
157	5785	-11.83	-9.61	30.00	PASS
165	5825	-12.14	-9.92	30.00	PASS

802.11n (40MHz)

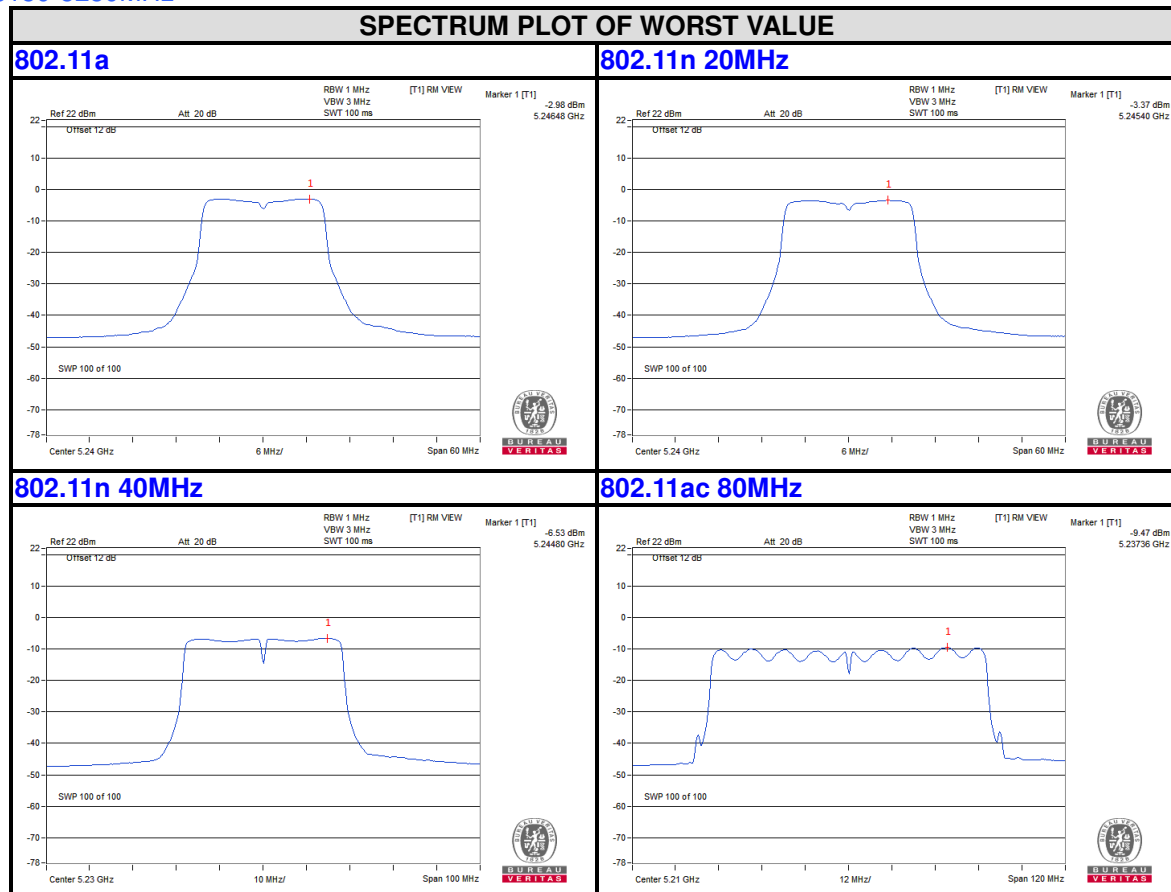
Channel Number	Frequency (MHz)	EIRP Power Level in 1MHz BW (dBm)		MAX. EIRP Limit (dBm)	PASS / FAIL
38	5190	-6.59		10.00	PASS
46	5230	-6.53		10.00	PASS
Channel Number	Frequency (MHz)	RF Power Level in 300kHz BW (dBm)	RF Power Level in 500kHz BW (dBm)	MAX. Limit (dBm/500k)	PASS / FAIL
151	5755	-14.78	-12.56	30.00	PASS
159	5795	-15.07	-12.85	30.00	PASS

802.11ac (80MHz)

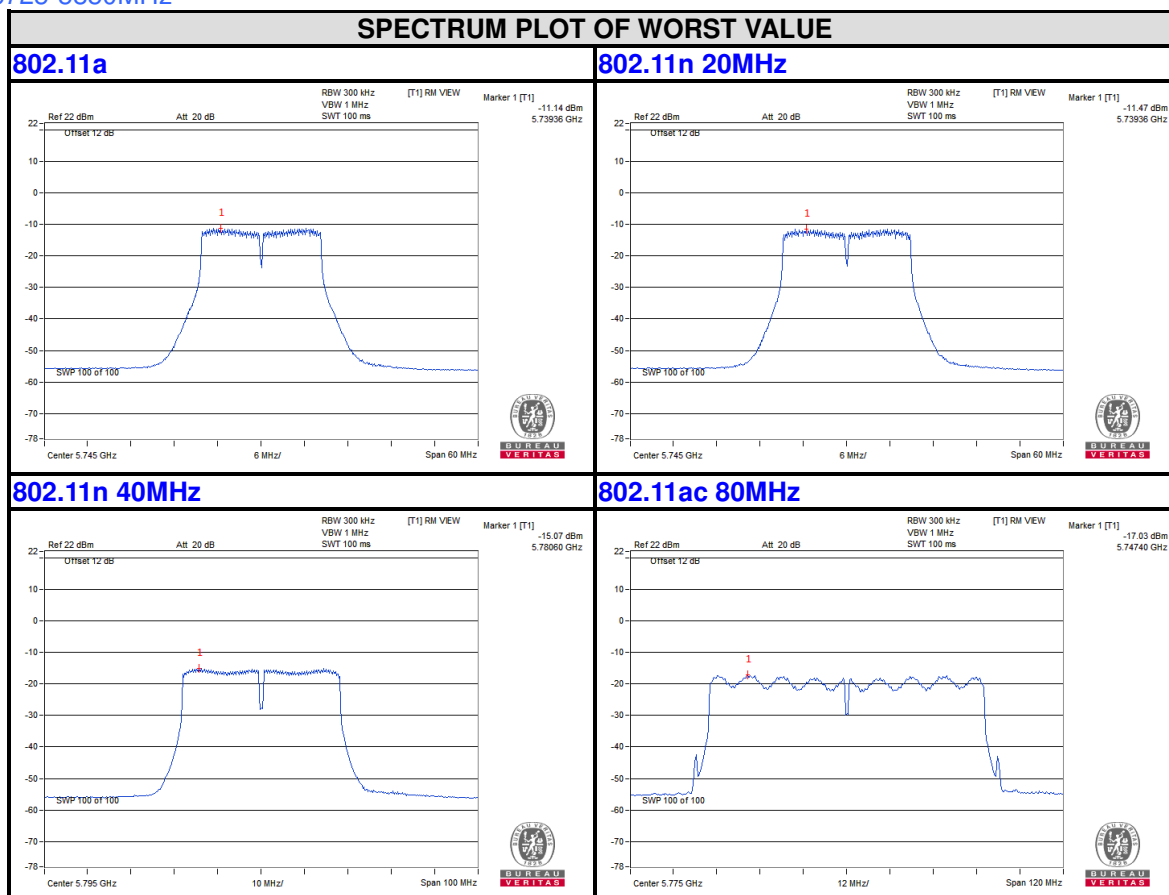
Channel Number	Frequency (MHz)	RF Power Level in 1MHz BW (dBm)		MAX. Limit (dBm)	PASS / FAIL
42	5210	-9.47		11.00	PASS
Channel Number	Frequency (MHz)	RF Power Level in 300kHz BW (dBm)	RF Power Level in 500kHz BW (dBm)	MAX. Limit (dBm/500k)	PASS / FAIL
155	5775	-17.03	-14.81	30.00	PASS

PSD Test Plot

BAND 1
5150-5250MHz



BAND4
5725-5850MHz

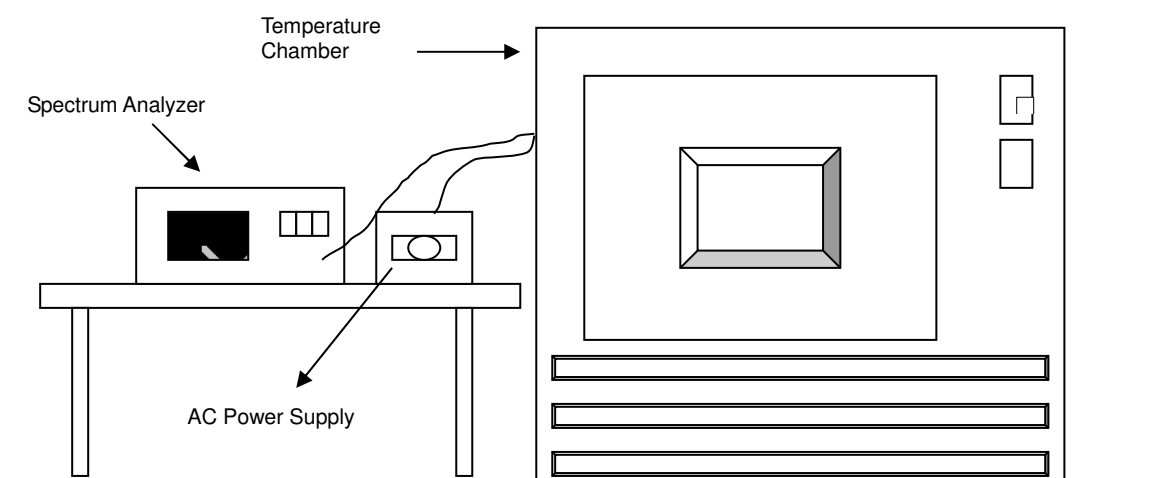


3.5 FREQUENCY STABILITY

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	5180.0021	0.00004	5180.0021	0.00004	5180.0015	0.00003	5180.0031	0.00006
40	120	5179.9816	-0.00036	5179.9807	-0.00037	5179.9788	-0.00041	5179.9825	-0.00034
30	120	5179.9787	-0.00041	5179.9764	-0.00046	5179.9771	-0.00044	5179.9787	-0.00041
20	120	5179.9973	-0.00005	5179.9983	-0.00003	5179.9991	-0.00002	5179.9975	-0.00005
10	120	5180.0128	0.00025	5180.0127	0.00025	5180.0103	0.00020	5180.014	0.00027
0	120	5180.0038	0.00007	5180.0054	0.00010	5180.0032	0.00006	5180.0069	0.00013
-10	120	5180.005	0.00010	5180.0016	0.00003	5180.0027	0.00005	5180.0014	0.00003
-20	120	5179.9852	-0.00029	5179.985	-0.00029	5179.9827	-0.00033	5179.985	-0.00029
-30	120	5180.0038	0.00007	5180.0018	0.00003	5179.9997	-0.00001	5180.0028	0.00005

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	5179.9977	-0.00004	5179.9983	-0.00003	5179.9999	0.00000	5179.9966	-0.00007
	120	5179.9973	-0.00005	5179.9983	-0.00003	5179.9991	-0.00002	5179.9975	-0.00005
	102	5179.9976	-0.00005	5179.9977	-0.00004	5179.9996	-0.00001	5179.9968	-0.00006



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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---