



BUREAU  
VERITAS

Test Report No.: RF200910N001-4



# TEST REPORT

Applicant	Linkplay Technology Inc.
Address	8F-8036, Qianren Building, No. 7, Yingcui Road, Jiangning District, Nanjing, China

Manufacturer or Supplier	N/A
Address	N/A
Product Name	Radio Module
Brand Name	Linkplay
Model	A98
Additional Model & Model Difference	N/A
Date of tests	Jul. 24, 2020 ~ Mar. 09, 2021

The submitted sample of the above equipment has been tested partially for according to the requirements of the following standards:

**FCC Part 15, Subpart E, Section 15.407**  
**For Radiated Emissions & Band Edge Measurement and Max Average Transmit Power test items**

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

Tested by Lucas Chen  
Project Engineer / EMC Department

Approved by Glyn He  
Assistant Manager / EMC Department

Date: Mar. 11, 2021

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Test Report No.: RF200910N001-4

## RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
RF200910N001-4	Original release.	Mar. 11, 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	N/A	Powered by DC 5V
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	N/A	No Test
15.407(g)	Frequency Stability	N/A	No Test
15.203	Antenna Requirement	PASS	Antenna connector is i-pex not a standard connector.

Note: The test items were required by client.

## 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	2.90dB
	30MHz ~ 1GMHz	3.83dB
	1GHz ~ 18GHz	4.93dB
	18GHz ~ 40GHz	4.80dB

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

<b>PRODUCT NAME</b>	Radio Module
<b>MODEL NO.</b>	A98
<b>FCC ID</b>	2ANOG-A98XX
<b>POWER SUPPLY</b>	DC 5V
<b>MODULATION TYPE</b>	256QAM, 64QAM, 16QAM, QPSK, BPSK for OFDM
<b>MODULATION TECHNOLOGY</b>	OFDM
<b>TRANSFER RATE</b>	802.11a: 54/48/36/24/18/12/9/6Mbps 802.11n: up to 150.0Mbps 802.11ac: up to 433.3Mbps
<b>OPERATING FREQUENCY</b>	5180 ~ 5240MHz, 5260 ~ 5320MHz 5500 ~ 5700MHz, 5745 ~ 5825MHz
<b>NUMBER OF CHANNEL</b>	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)
<b>CONDUCTED OUTPUT POWER</b>	25.003mW for 5180 ~ 5240MHz (Maximum AVG Power) 50.699mW for 5260 ~ 5320MHz (Maximum AVG Power) 57.016mW for 5500 ~ 5700MHz (Maximum AVG Power) 37.239mW for 5745 ~ 5825MHz (Maximum AVG Power)
<b>ANTENNA TYPE</b>	<b>Home Antenna:</b> 5180 ~ 5240MHz: Chain 0: FPCB antenna with 3.92dBi gain Chain 1: FPCB antenna with 4.51dBi gain 5260 ~ 5320MHz: Chain 0: FPCB antenna with 3.92dBi gain Chain 1: FPCB antenna with 4.51dBi gain 5500 ~ 5700MHz: Chain 0: FPCB antenna with 3.90dBi gain Chain 1: FPCB antenna with 3.77dBi gain 5745 ~ 5825MHz: Chain 0: FPCB antenna with 4.92dBi gain Chain 1: FPCB antenna with 4.69dBi gain
<b>CABLE SUPPLIED</b>	N/A



**NOTES:**

1. The working status of the two antennas is as follows.

<b>MODULATION MODE</b>	<b>TX FUNCTION</b>
802.11a	2 Chains (SISO)
802.11n (HT20), 802.11ac (VHT20)	2 Chains (SISO)
802.11n (HT40), 802.11ac (VHT40)	2 Chains (SISO)
802.11ac (VHT80)	2 Chains (SISO)

\*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.

\* 5 GHz WIFI provided a SISO function, the Radiated Emissions & Band Edge Measurement tests are carried out on the maximum power “chain 1” antenna.

2. For a more detailed features description, please refer to the manufacturer’s specifications or the user’s manual.
3. For the test results, the EUT had been tested with all conditions. But only the worst case was shown in test report.
4. Please refer to the EUT photo document (Reference No.: 200910N001-1) for detailed product photo.



## 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	40	5200 MHz
44	5220 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 5250 ~ 5350MHz

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

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

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

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
54	5270 MHz	62	5310 MHz

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

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
58	5290MHz	--	--





**FOR 5470 ~ 5725MHz**

11 channels are provided for 802.11a, 802.11a c 20MHz, 802.11n (20MHz):

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 802.11ac 40MHz, 802.11n (40MHz):

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 (80MHz):

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
106	5530MHz	122	5610MHz

**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≥1G	RE<1G	PLC	APCM	
-	√	√	-	√	Powered By DC 5V

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)
-	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, 112, 140	OFDM	BPSK	6.0
-	802.11n (20MHz)		100 to 140	100, 112, 140	OFDM	BPSK	6.5
-	802.11n (40MHz)		102 to 134	102, 110, 134	OFDM	BPSK	13.5
-	802.11ac 80MHz		106	106	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 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)
-	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, 112, 140	OFDM	BPSK	6.0
-	802.11n (20MHz)		100 to 140	100, 112, 140	OFDM	BPSK	6.5
-	802.11n (40MHz)		102 to 134	102, 110, 134	OFDM	BPSK	13.5
-	802.11ac 80MHz		106	106	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	23deg. C, 59%RH	DC 5V from base support	Bryant
RE≥1G	24deg. C, 55%RH	DC 5V from base support	Hu
PLC	-	-	-
APCM	20deg. C, 55%RH	DC 5V from base support	Daniel



### 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	Base support	N/A	N/A	N/A	N/A

NO.	SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS
1	AC Cable: Unshielded, Detachable, 1.2m

### 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)**

**KDB 789033 D02 General UNII Test Procedures New Rules v02r01**

**KDB 662911 D01 Multiple Transmitter Output 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:

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

**3.1.3 TEST INSTRUMENTS**

<b>Equipment</b>	<b>Manufacturer</b>	<b>Model No.</b>	<b>Serial No.</b>	<b>Next Cal.</b>
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, 24 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 of test receiver/spectrum analyzer is 200Hz for Quasi-peak detection (QP) at radiated spurious emission frequency below 0.15MHz; The resolution bandwidth of test receiver/spectrum analyzer is 9KHz for Quasi-peak detection (QP) at radiated spurious emission frequency below 30MHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection (QP) at radiated spurious emission frequency below 1GHz.
3. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
4. 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.
5. All modes of operation were investigated and the worst-case emissions are reported.

### 3.1.5 DEVIATION FROM TEST STANDARD

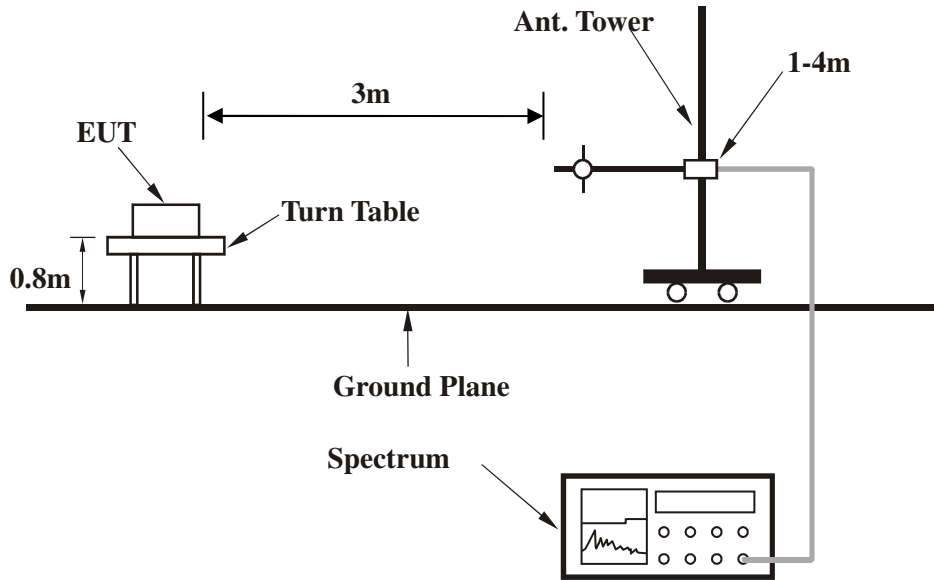
No deviation.





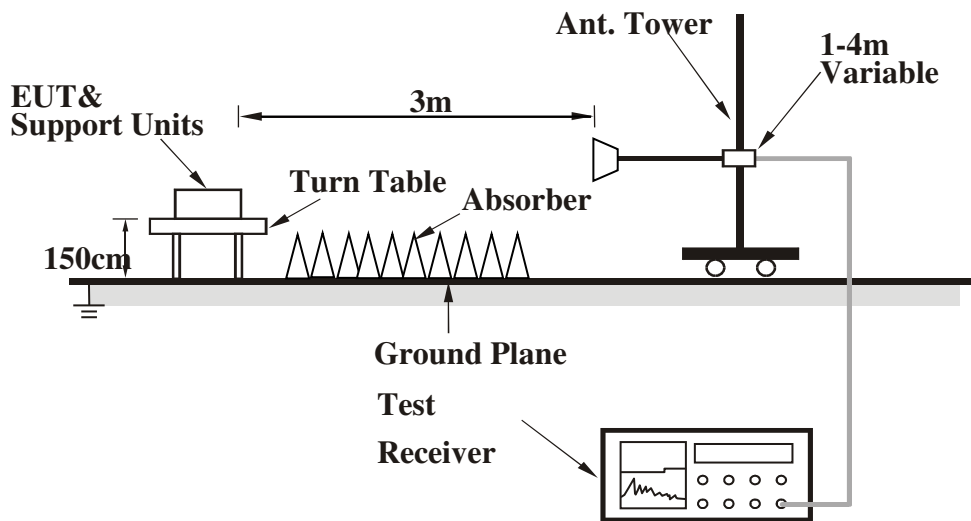
### 3.1.6 TEST SETUP

#### 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 FTEST RESULTS**

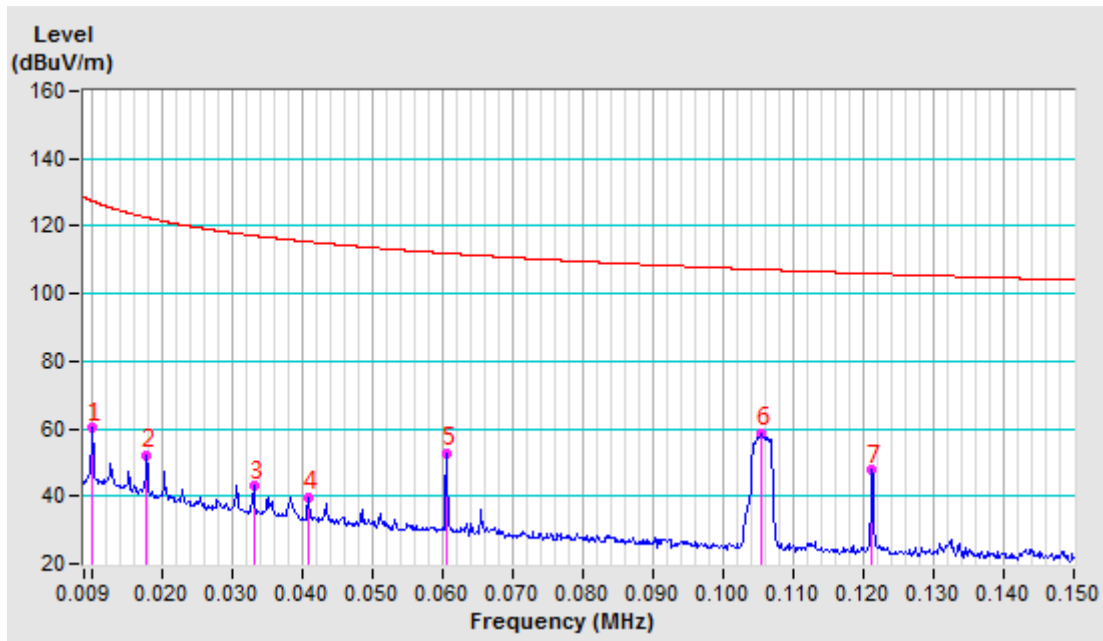
**BELOW 30MHz WORST-CASE DATA:**

**802.11a**

<b>CHANNEL</b>	TX Channel 36	<b>DETECTOR FUNCTION</b>	Quasi-Peak, 200Hz
<b>FREQUENCY RANGE</b>	9 -150KHz		

<b>ANTENNA POLARITY &amp; TEST DISTANCE: PARALLEL AT 3M</b>								
No.	Freq. (MHz)	Correction Factor (dB/m)	Raw Value (dBUV)	Emission Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)
1	0.01020	-10.05	70.25	60.20	127.41	-67.21	100	175
2	0.01790	-10.51	62.70	52.19	122.55	-70.36	100	336
3	0.03320	-11.30	54.47	43.17	117.17	-74.00	100	360
4	0.04090	-11.42	51.11	39.69	115.37	-75.68	100	154
5	0.06060	-11.59	64.46	52.87	111.95	-59.08	100	190
6	0.10550	-11.79	70.57	58.78	107.14	-48.36	100	182
7	0.12130	-11.82	59.58	47.76	105.92	-58.16	100	195

- REMARKS:**
1. Peak detector quick scan is showed on the graph and final quasi-peak detector data is measured corresponding to relevant limit and recorded in the data table.
  2. Negative sign (-) in the margin column signify levels below the limit.
  3. Frequency range scanned: 0.009-0.15MHz.
  4. Only emissions significantly above equipment noise floor are reported.

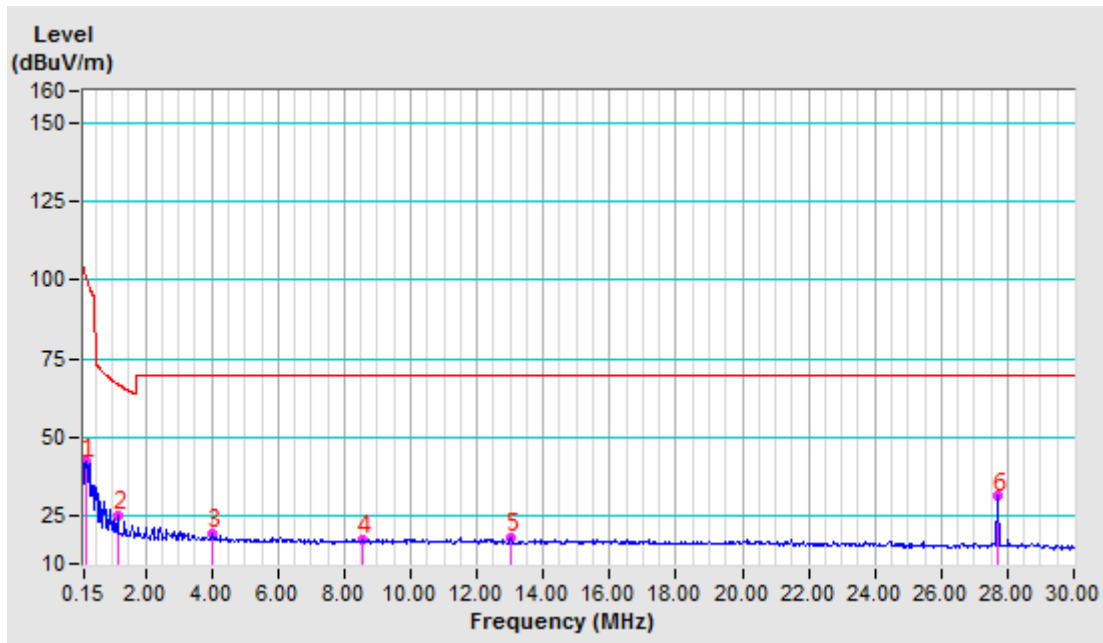




<b>CHANNEL</b>	TX Channel 36	<b>DETECTOR FUNCTION</b>	Quasi-Peak, 200Hz
<b>FREQUENCY RANGE</b>	150KHz-30MHz		

ANTENNA POLARITY & TEST DISTANCE: PARALLEL AT 3M								
No.	Freq. (MHz)	Correction Factor (dB/m)	Raw Value (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)
1	0.18130	-11.94	54.08	42.14	102.43	-60.29	100	184
2	1.15450	-12.02	37.31	25.29	67.04	-41.75	100	38
3	4.03370	-11.94	31.46	19.52	69.54	-50.02	100	208
4	8.52040	-11.83	29.34	17.51	69.54	-52.03	100	2
5	13.01600	-11.64	29.94	18.30	69.54	-51.24	100	28
6	27.69250	-11.69	43.06	31.37	69.54	-38.17	100	142

- REMARKS:**
1. Peak detector quick scan is shown on the graph and final quasi-peak detector data is measured corresponding to relevant limit and recorded in the data table.
  2. Negative sign (-) in the margin column signify levels below the limit.
  3. Frequency range scanned: 0.15-30MHz.
  4. Only emissions significantly above equipment noise floor are reported.

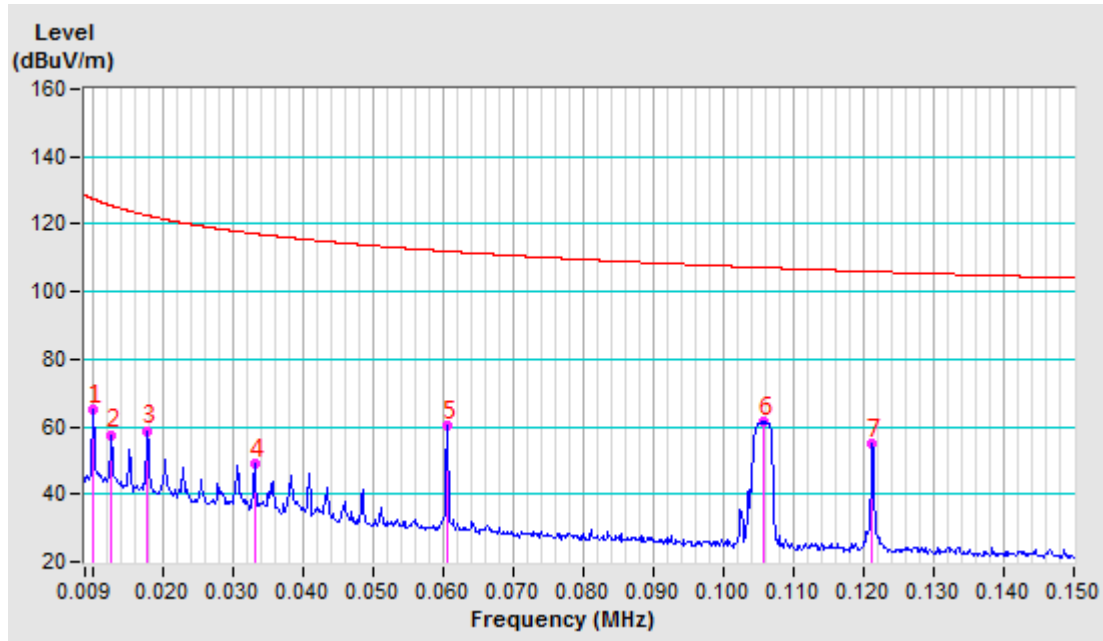




<b>CHANNEL</b>	TX Channel 36	<b>DETECTOR FUNCTION</b>	Quasi-Peak, 200Hz
<b>FREQUENCY RANGE</b>	9 -150KHz		

<b>ANTENNA POLARITY &amp; TEST DISTANCE: PERPENDICYLARL AT 3M</b>								
No.	Freq. (MHz)	Correction Factor (dB/m)	Raw Value (dBUV)	Emission Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)
1	0.01020	-10.05	75.14	65.09	127.42	-62.33	100	260
2	0.01280	-10.21	67.87	57.66	125.46	-67.80	100	231
3	0.01790	-10.51	69.28	58.77	122.55	-63.78	100	229
4	0.03320	-11.30	60.36	49.06	117.17	-68.11	100	278
5	0.06060	-11.59	71.83	60.24	111.95	-51.71	100	280
6	0.10570	-11.79	73.15	61.36	107.12	-45.76	100	258
7	0.12130	-11.82	66.82	55.00	105.92	-50.92	100	285

- REMARKS:**
1. Peak detector quick scan is showed on the graph and final quasi-peak detector data is measured corresponding to relevant limit and recorded in the data table.
  2. Negative sign (-) in the margin column signify levels below the limit.
  3. Frequency range scanned: 0.009-0.15MHz.
  4. Only emissions significantly above equipment noise floor are reported.

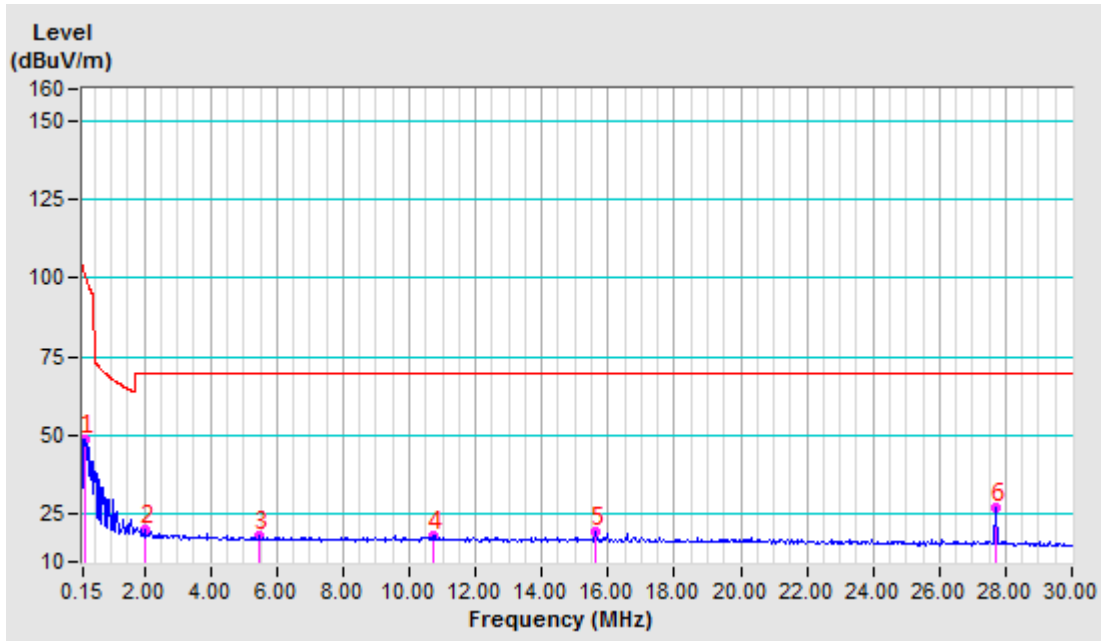




<b>CHANNEL</b>	TX Channel 36	<b>DETECTOR FUNCTION</b>	Quasi-Peak, 200Hz
<b>FREQUENCY RANGE</b>	150KHz-30MHz		

<b>ANTENNA POLARITY &amp; TEST DISTANCE: PERPENDICYLARL AT 3M</b>								
No.	Freq. (MHz)	Correction Factor (dB/m)	Raw Value (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)
1	0.18130	-11.94	60.74	48.80	102.43	-53.63	100	272
2	1.99330	-12.07	32.40	20.33	69.54	-49.21	100	213
3	5.48000	-11.97	30.20	18.23	69.54	-51.31	100	38
4	10.74280	-11.75	30.03	18.28	69.54	-51.26	100	95
5	15.60860	-11.55	31.36	19.81	69.54	-49.73	100	10
6	27.69100	-11.69	39.08	27.39	69.54	-42.15	100	250

- REMARKS:**
1. Peak detector quick scan is showed on the graph and final quasi-peak detector data is measured corresponding to relevant limit and recorded in the data table.
  2. Negative sign (-) in the margin column signify levels below the limit.
  3. Frequency range scanned: 0.15-30MHz
  4. Only emissions significantly above equipment noise floor are reported.





**BELOW 1GHz WORST-CASE DATA**

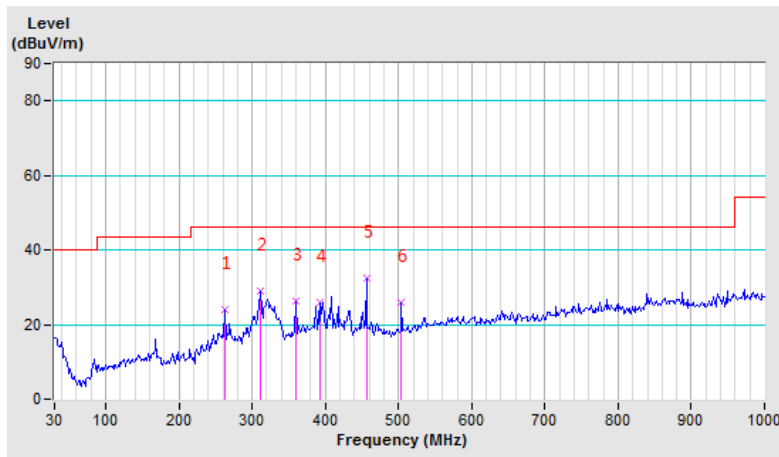
**802.11a**

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

<b>ANTENNA POLARITY &amp; TEST DISTANCE: HORIZONTAL AT 3 M</b>								
<b>NO.</b>	<b>FREQ. (MHz)</b>	<b>EMISSION LEVEL (dBuV/m)</b>	<b>LIMIT (dBuV/m)</b>	<b>MARGIN (dB)</b>	<b>ANTENNA HEIGHT (m)</b>	<b>TABLE ANGLE (Degree)</b>	<b>RAW VALUE (dBuV)</b>	<b>CORRECTION FACTOR (dB/m)</b>
1	263.17	24.05 QP	46.00	-21.95	1.00 H	133	39.79	-15.74
2	311.36	28.85 QP	46.00	-17.15	1.00 H	96	42.78	-13.93
3	359.55	26.38 QP	46.00	-19.62	1.00 H	118	38.79	-12.41
4	392.20	25.85 QP	46.00	-20.15	1.00 H	81	37.58	-11.73
5	455.93	32.35 QP	46.00	-13.65	1.00 H	67	42.73	-10.38
6	504.12	25.87 QP	46.00	-20.13	1.00 H	150	35.21	-9.34

**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.



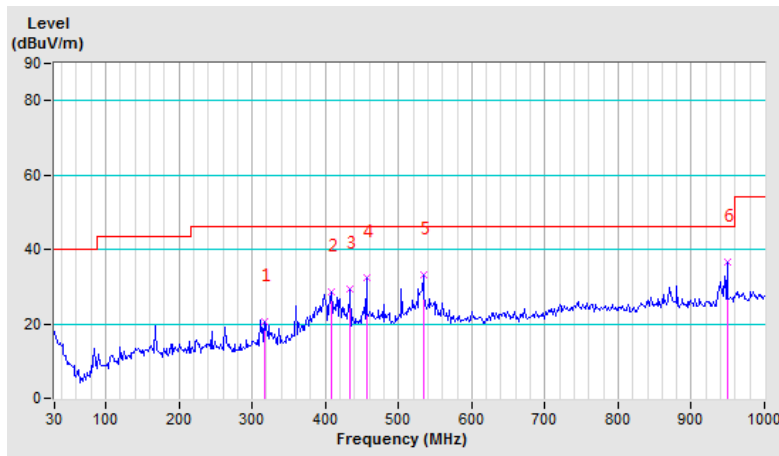


<b>CHANNEL</b>	TX Channel 36	<b>DETECTOR FUNCTION</b>	Quasi-Peak (QP)
<b>FREQUENCY RANGE</b>	30MHz ~ 1GHz		

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	317.58	20.73 QP	46.00	-25.27	1.00 V	86	34.47	-13.74
2	407.74	28.69 QP	46.00	-17.31	1.00 V	137	40.06	-11.37
3	434.17	29.26 QP	46.00	-16.74	1.00 V	184	40.21	-10.95
4	455.93	32.52 QP	46.00	-13.48	1.00 V	197	42.90	-10.38
5	533.65	33.15 QP	46.00	-12.85	1.00 V	212	41.55	-8.40
6	948.70	36.58 QP	46.00	-9.42	1.00 V	112	38.16	-1.58

**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. Margin value = Emission level – Limit value.







**Band 1 (5150-5250MHz):**

**ABOVE 1GHZ DATA**

**802.11a**

<b>CHANNEL</b>	TX Channel 36	<b>DETECTOR FUNCTION</b>	Peak (PK)
<b>FREQUENCY RANGE</b>	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	35	55.22	8.79
2	5145.00	45.20 AV	54.00	-8.80	1.00 H	35	36.41	8.79
3	5150.00	62.36 PK	74.00	-11.64	1.00 H	35	53.56	8.80
4	5150.00	46.81 AV	54.00	-7.19	1.00 H	35	38.01	8.80
5	*5180.00	102.08 PK			1.00 H	35	93.26	8.82
6	*5180.00	88.21 AV			1.00 H	35	79.39	8.82
7	#10360.00	57.56 PK	68.20	-10.64	1.00 H	0	39.75	17.81
8	15540.00	63.32 PK	74.00	-10.68	1.00 H	0	39.23	24.09
9	15540.00	49.20 AV	54.00	-4.80	1.00 H	0	25.11	24.09

**ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M**

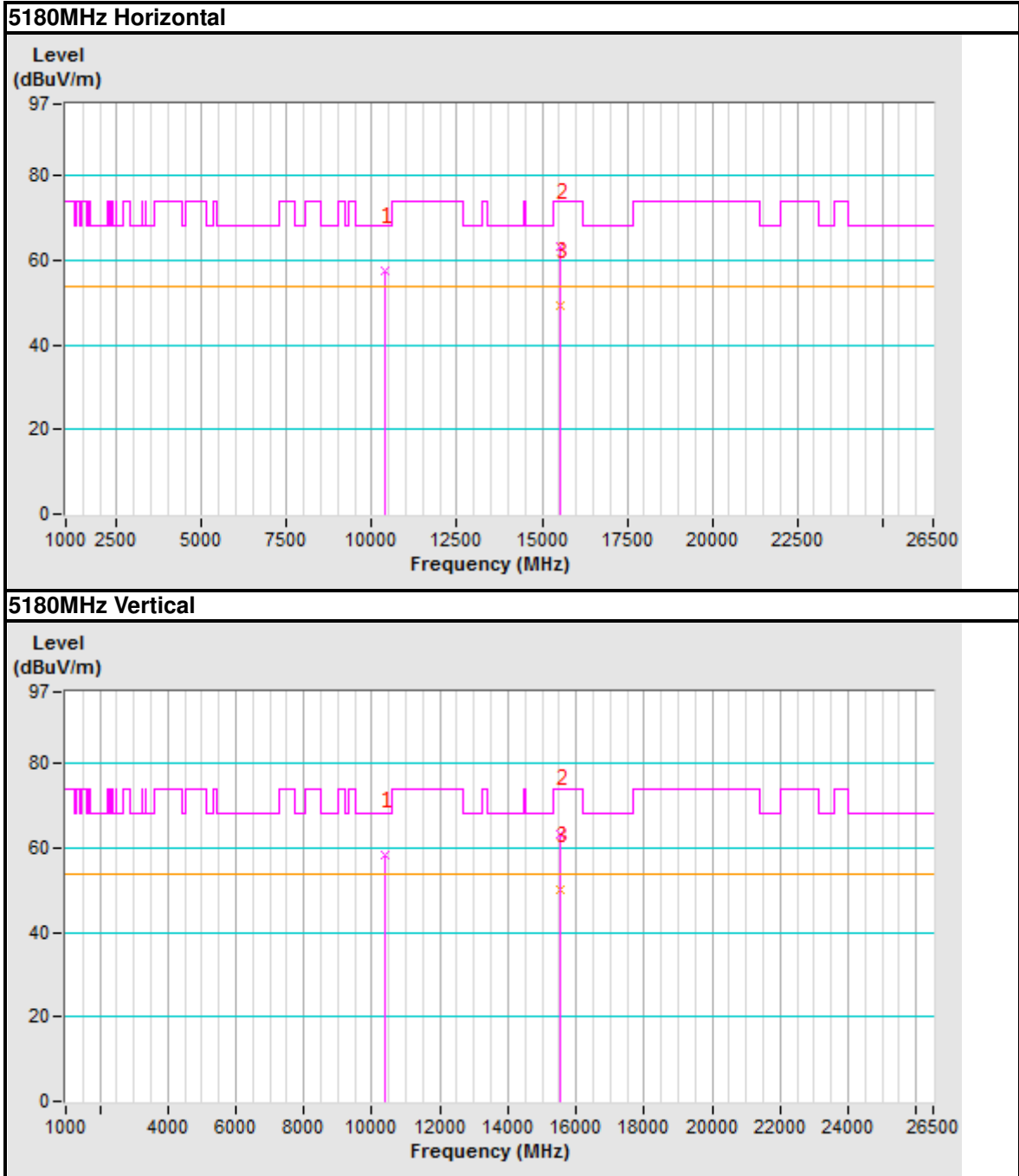
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5146.00	69.79 PK	74.00	-4.21	1.00 V	30	61.00	8.79
2	5146.00	50.27 AV	54.00	-3.73	1.00 V	30	41.48	8.79
3	5150.00	67.74 PK	74.00	-6.26	1.00 V	30	58.94	8.80
4	5150.00	51.20 AV	54.00	-2.80	1.00 V	30	42.40	8.80
5	*5180.00	106.21 PK			1.00 V	30	97.39	8.82
6	*5180.00	92.27 AV			1.00 V	30	83.45	8.82
7	#10360.00	58.34 PK	68.20	-9.86	1.00 V	0	40.53	17.81
8	15540.00	63.48 PK	74.00	-10.52	1.00 V	0	39.39	24.09
9	15540.00	50.10 AV	54.00	-3.90	1.00 V	0	26.01	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 less than 20dB margin against the limit.
4. Margin value = Emission level – Limit value.
5. " \* " : Fundamental frequency.
6. " # " : The radiated frequency is out of the restricted band.



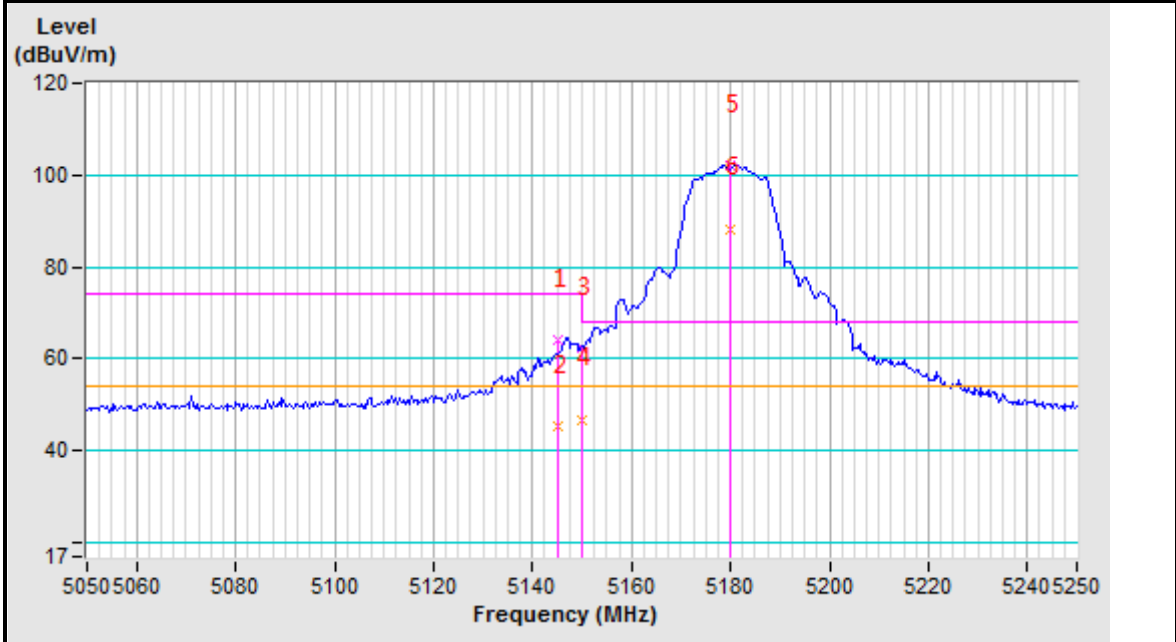
Test Plot



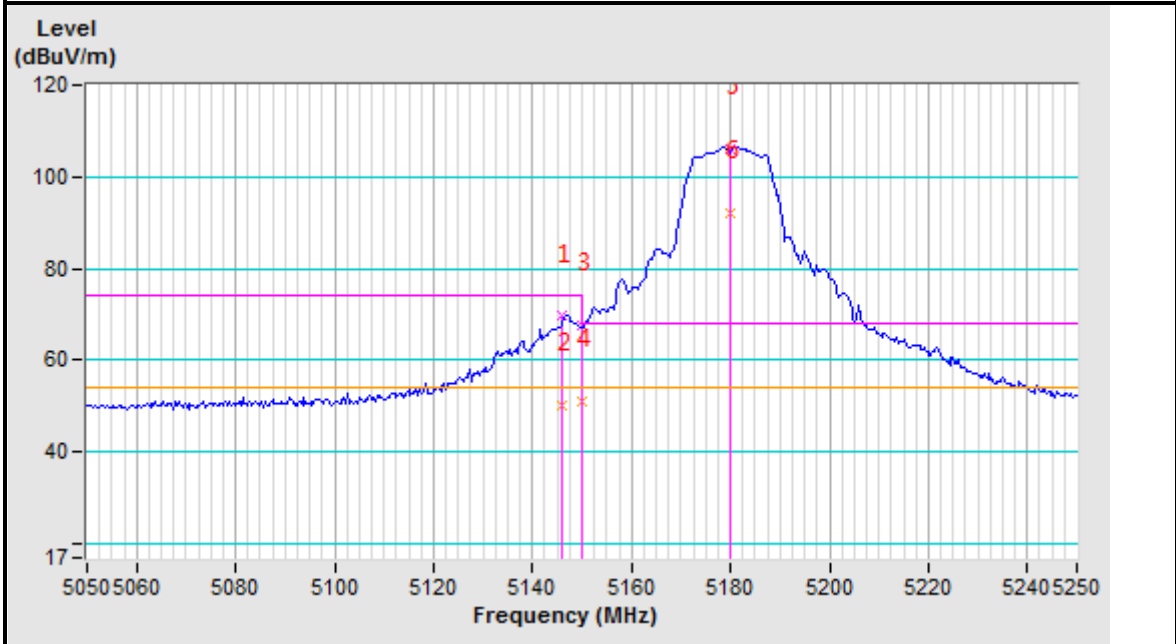


Band edge Plot

5180MHz Horizontal



5180MHz Vertical





<b>CHANNEL</b>	TX Channel 40	<b>DETECTOR FUNCTION</b>	Peak (PK)
<b>FREQUENCY RANGE</b>	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	54.29 PK	74.00	-19.71	1.00 H	21	45.50	8.79
2	5146.00	40.03 AV	54.00	-13.97	1.00 H	21	31.24	8.79
3	5150.00	56.49 PK	74.00	-17.51	1.00 H	21	47.69	8.80
4	5150.00	44.60 AV	54.00	-9.40	1.00 H	21	35.80	8.80
5	*5200.00	103.42 PK			1.00 H	21	94.57	8.85
6	*5200.00	89.90 AV			1.00 H	21	81.05	8.85
7	#10400.00	57.46 PK	68.20	-10.74	1.00 H	0	39.46	18.00
8	15600.00	62.39 PK	74.00	-11.61	1.00 H	0	38.18	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**

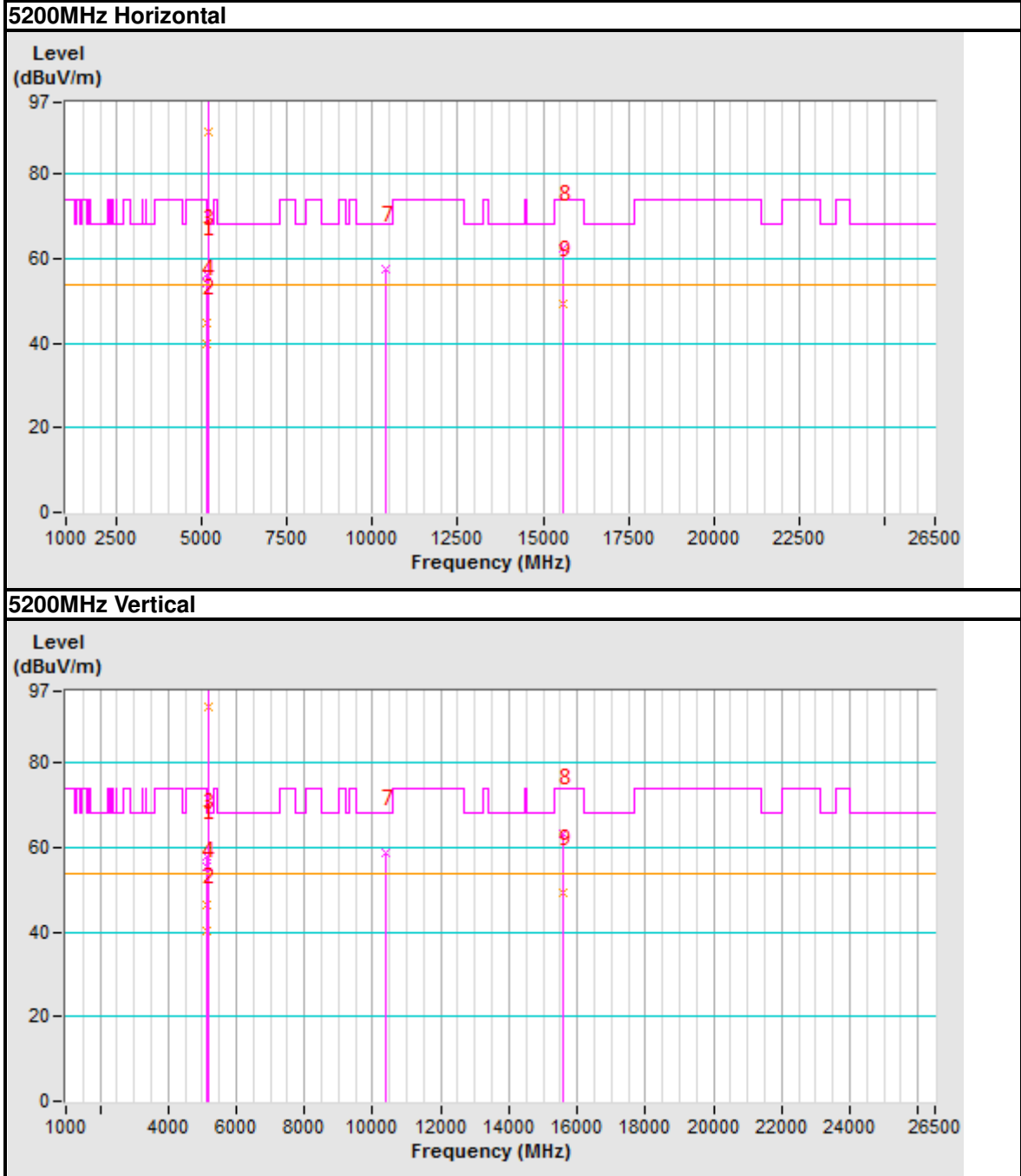
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5144.00	55.53 PK	74.00	-18.47	1.00 V	50	46.73	8.80
2	5144.00	40.10 AV	54.00	-13.90	1.00 V	50	31.30	8.80
3	5150.00	57.85 PK	74.00	-16.15	1.00 V	50	49.05	8.80
4	5150.00	46.33 AV	54.00	-7.67	1.00 V	50	37.53	8.80
5	*5200.00	108.50 PK			1.00 V	50	99.65	8.85
6	*5200.00	93.46 AV			1.00 V	50	84.61	8.85
7	#10400.00	58.64 PK	68.20	-9.56	1.00 V	0	40.64	18.00
8	15600.00	63.48 PK	74.00	-10.52	1.00 V	0	39.27	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 less than 20dB margin against the limit.
4. Margin value = Emission level – Limit value.
5. " \* ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.



### Test Plot





<b>CHANNEL</b>	TX Channel 48	<b>DETECTOR FUNCTION</b>	Peak (PK)
<b>FREQUENCY RANGE</b>	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	5149.00	49.66 PK	74.00	-24.34	1.00 H	0	40.86	8.80
2	5149.00	39.12 AV	54.00	-14.88	1.00 H	0	30.32	8.80
3	5150.00	51.10 PK	74.00	-22.90	1.00 H	0	42.30	8.80
4	5150.00	39.45 AV	54.00	-14.55	1.00 H	0	30.65	8.80
5	5350.00	51.24 PK	74.00	-22.76	1.00 H	0	42.26	8.98
6	5350.00	41.21 AV	54.00	-12.79	1.00 H	0	32.23	8.98
7	5352.00	50.98 PK	74.00	-23.02	1.00 H	0	42.00	8.98
8	5352.00	39.63 AV	54.00	-14.37	1.00 H	0	30.65	8.98
9	#10480.00	104.01 PK			1.00 H	0	85.64	18.37
10	#10480.00	57.23 PK	68.20	-10.97	1.00 H	0	38.86	18.37
11	#10480.00	90.22 AV			1.00 H	0	71.85	18.37
12	15720.00	63.26 PK	74.00	-10.74	1.00 H	0	38.83	24.43
13	15720.00	49.12 AV	54.00	-4.88	1.00 H	0	24.69	24.43

**ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M**

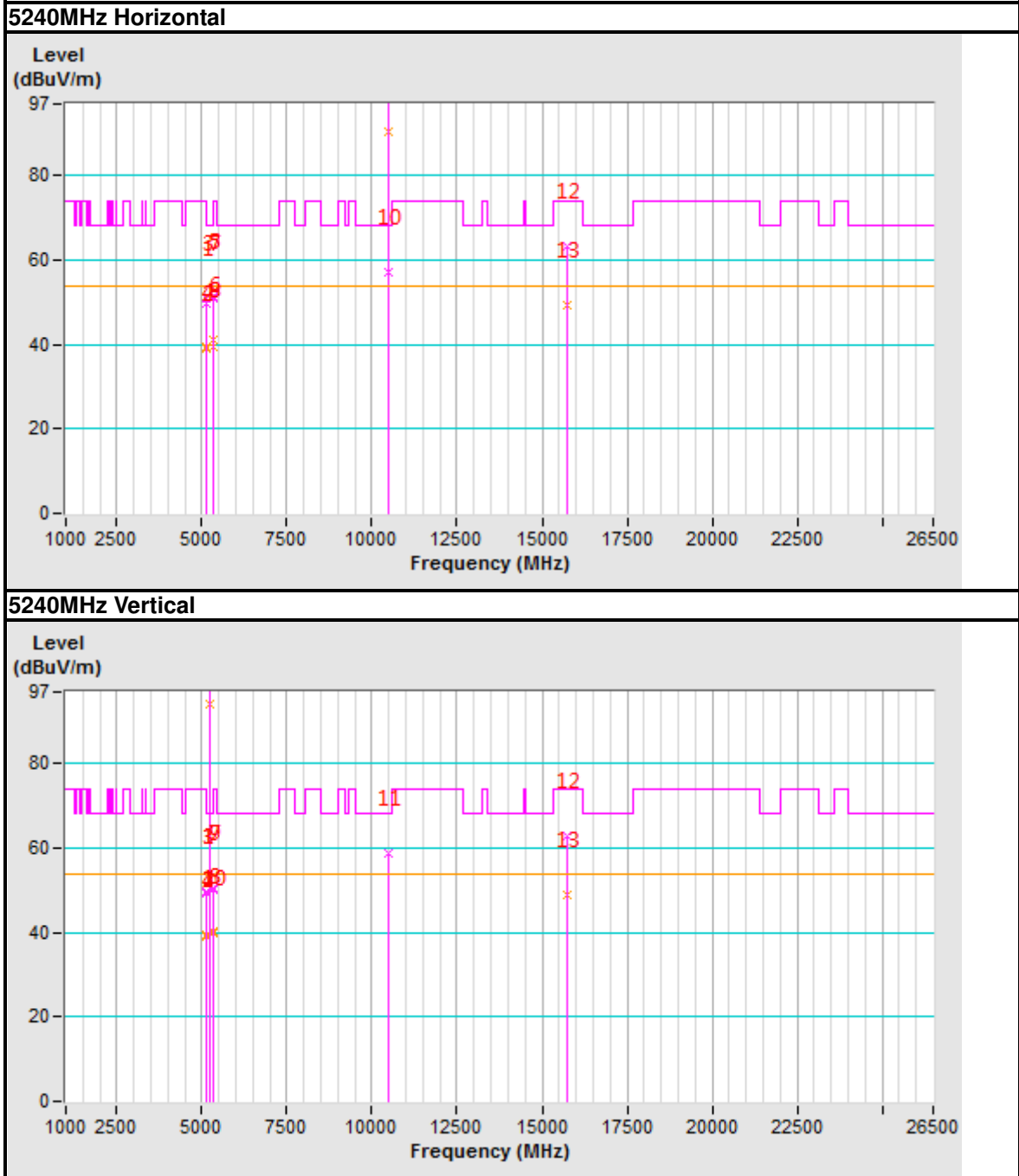
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5146.00	49.50 PK	74.00	-24.50	1.00 V	0	40.71	8.79
2	5146.00	39.20 AV	54.00	-14.80	1.00 V	0	30.41	8.79
3	5150.00	49.54 PK	74.00	-24.46	1.00 V	0	40.74	8.80
4	5150.00	39.50 AV	54.00	-14.50	1.00 V	0	30.70	8.80
5	*5240.00	108.41 PK			1.00 V	0	99.53	8.88
6	*5240.00	94.21 AV			1.00 V	0	85.33	8.88
7	5350.00	50.45 PK	74.00	-23.55	1.00 V	0	41.47	8.98
8	5350.00	40.10 AV	54.00	-13.90	1.00 V	0	31.12	8.98
9	5355.00	50.31 PK	74.00	-23.69	1.00 V	0	41.32	8.99
10	5355.00	39.80 AV	54.00	-14.20	1.00 V	0	30.81	8.99
11	#10480.00	58.64 PK	68.20	-9.56	1.00 V	0	40.27	18.37
12	15720.00	62.94 PK	74.00	-11.06	1.00 V	0	38.51	24.43
13	15720.00	48.96 AV	54.00	-5.04	1.00 V	0	24.53	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 less than 20dB margin against the limit.
4. Margin value = Emission level – Limit value.
5. " \* ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.



Test Plot





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	52.63 PK	74.00	-21.37	1.00 H	30	43.83	8.80
2	5148.00	38.12 AV	54.00	-15.88	1.00 H	30	29.32	8.80
3	5150.00	50.25 PK	74.00	-23.75	1.00 H	30	41.45	8.80
4	5150.00	38.00 AV	54.00	-16.00	1.00 H	30	29.20	8.80
5	*5180.00	94.73 PK			1.00 H	30	85.91	8.82
6	*5180.00	79.80 AV			1.00 H	30	70.98	8.82
7	#10360.00	56.34 PK	68.20	-11.86	1.00 H	0	38.53	17.81
8	15540.00	63.84 PK	74.00	-10.16	1.00 H	0	39.75	24.09
9	15540.00	49.32 AV	54.00	-4.68	1.00 H	0	25.23	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	5147.00	61.70 PK	74.00	-12.30	1.00 V	220	52.91	8.79
2	5147.00	40.10 AV	54.00	-13.90	1.00 V	220	31.31	8.79
3	5150.00	61.94 PK	74.00	-12.06	1.00 V	220	53.14	8.80
4	5150.00	40.31 AV	54.00	-13.69	1.00 V	220	31.51	8.80
5	*5180.00	101.49 PK			1.00 V	220	92.67	8.82
6	*5180.00	86.85 AV			1.00 V	220	78.03	8.82
7	#10360.00	57.24 PK	68.20	-10.96	1.00 V	0	39.43	17.81
8	15540.00	63.34 PK	74.00	-10.66	1.00 V	0	39.25	24.09
9	15540.00	48.95 AV	54.00	-5.05	1.00 V	0	24.86	24.09

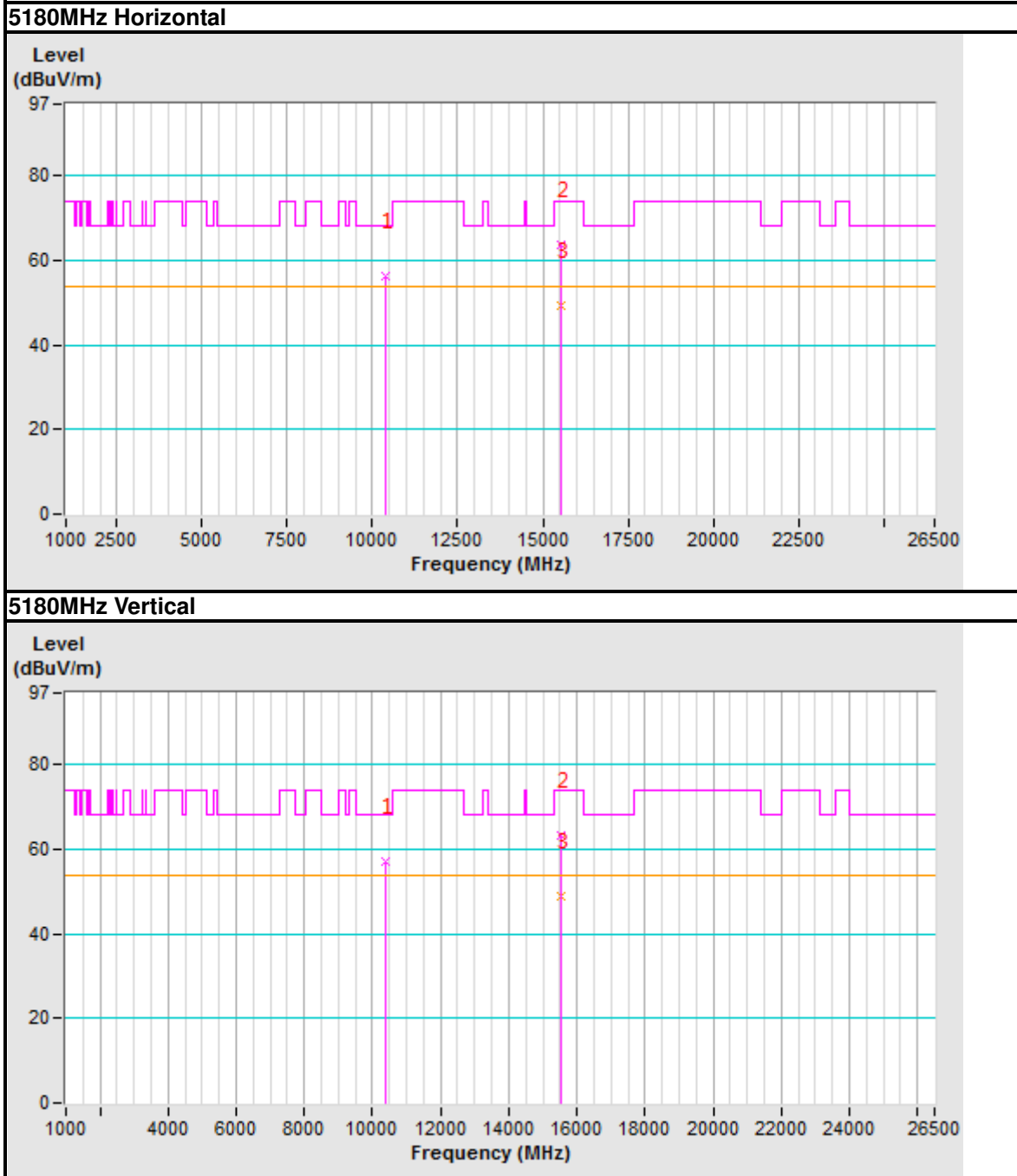
REMARKS:

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 less than 20dB margin against the limit.
4. Margin value = Emission level – Limit value.
5. " \* ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.



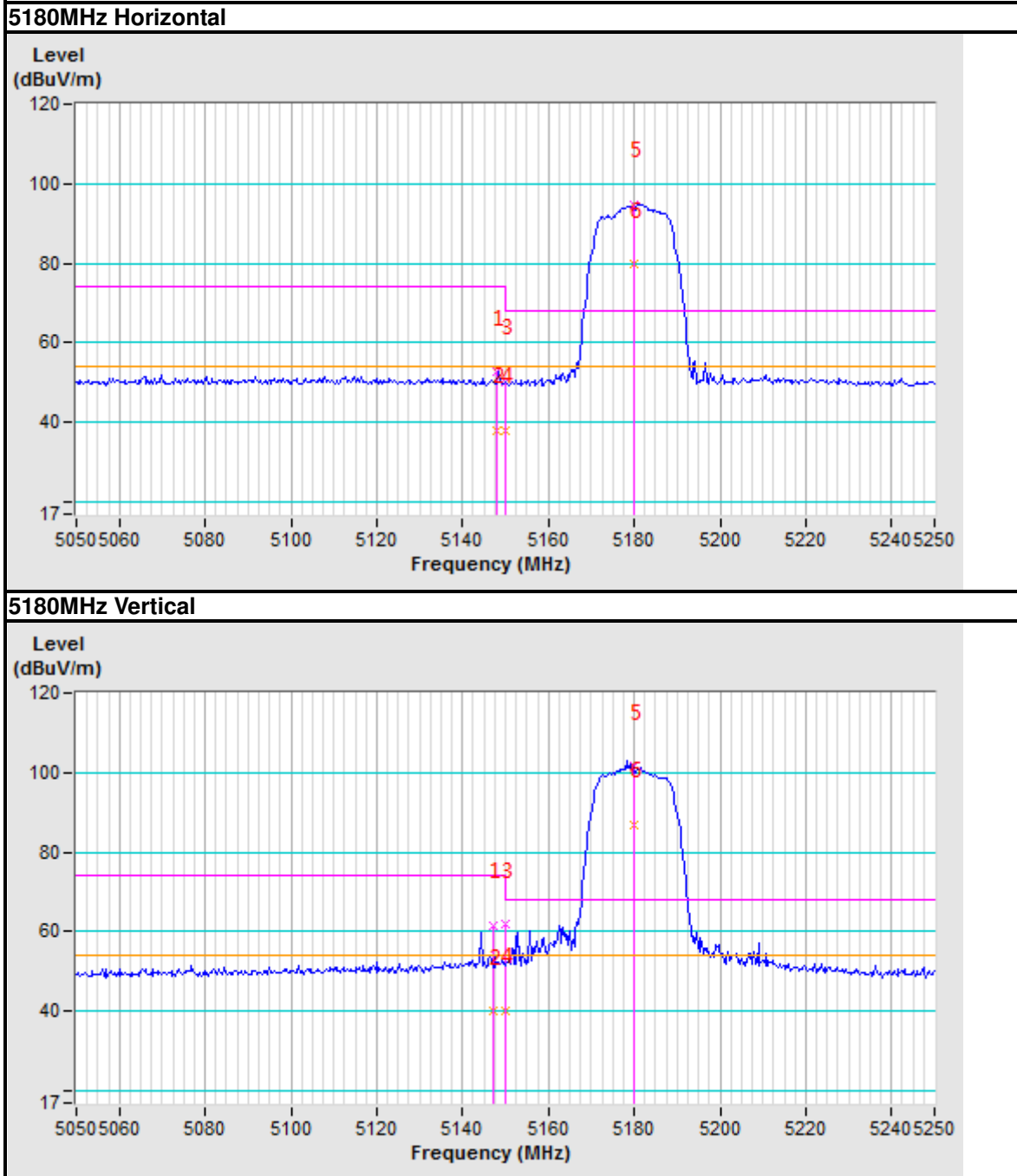


### Test Plot





### Band edge Plot





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

<b>ANTENNA POLARITY &amp; TEST DISTANCE: HORIZONTAL AT 3 M</b>								
<b>NO.</b>	<b>FREQ. (MHz)</b>	<b>EMISSION LEVEL (dBuV/m)</b>	<b>LIMIT (dBuV/m)</b>	<b>MARGIN (dB)</b>	<b>ANTENNA HEIGHT (m)</b>	<b>TABLE ANGLE (Degree)</b>	<b>RAW VALUE (dBuV)</b>	<b>CORRECTION FACTOR (dB/m)</b>
1	5143.00	50.06 PK	74.00	-23.94	1.00 H	54	41.27	8.79
2	5143.00	39.90 AV	54.00	-14.10	1.00 H	54	31.11	8.79
3	5150.00	53.46 PK	74.00	-20.54	1.00 H	54	44.66	8.80
4	5150.00	40.12 AV	54.00	-13.88	1.00 H	54	31.32	8.80
5	*5200.00	102.98 PK			1.00 H	54	94.13	8.85
6	*5200.00	89.12 AV			1.00 H	54	80.27	8.85
7	#10400.00	56.23 PK	68.20	-11.97	1.00 H	0	38.23	18.00
8	15600.00	62.87 PK	74.00	-11.13	1.00 H	0	38.66	24.21
9	15600.00	47.88 AV	54.00	-6.12	1.00 H	0	23.67	24.21

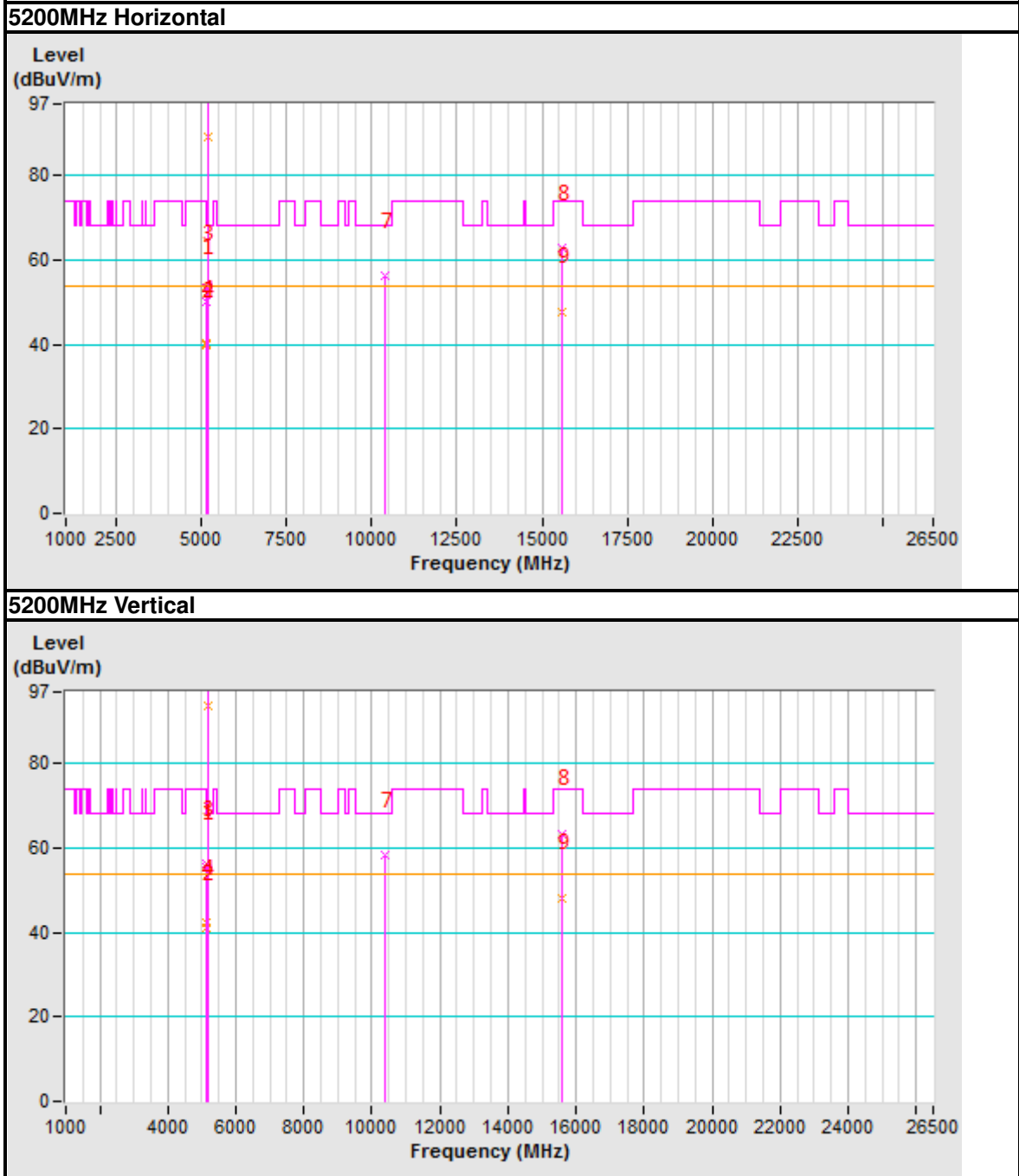
<b>ANTENNA POLARITY &amp; TEST DISTANCE: VERTICAL AT 3 M</b>								
<b>NO.</b>	<b>FREQ. (MHz)</b>	<b>EMISSION LEVEL (dBuV/m)</b>	<b>LIMIT (dBuV/m)</b>	<b>MARGIN (dB)</b>	<b>ANTENNA HEIGHT (m)</b>	<b>TABLE ANGLE (Degree)</b>	<b>RAW VALUE (dBuV)</b>	<b>CORRECTION FACTOR (dB/m)</b>
1	5145.00	55.34 PK	74.00	-18.66	1.00 V	60	46.55	8.79
2	5145.00	41.03 AV	54.00	-12.97	1.00 V	60	32.24	8.79
3	5150.00	56.22 PK	74.00	-17.78	1.00 V	60	47.42	8.80
4	5150.00	42.30 AV	54.00	-11.70	1.00 V	60	33.50	8.80
5	*5200.00	108.31 PK			1.00 V	60	99.46	8.85
6	*5200.00	93.82 AV			1.00 V	60	84.97	8.85
7	#10400.00	58.34 PK	68.20	-9.86	1.00 V	0	40.34	18.00
8	15600.00	63.46 PK	74.00	-10.54	1.00 V	0	39.25	24.21
9	15600.00	48.29 AV	54.00	-5.71	1.00 V	0	24.08	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 less than 20dB margin against the limit.
4. Margin value = Emission level – Limit value.
5. " \* ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.



### Test Plot





<b>CHANNEL</b>	TX Channel 48	<b>DETECTOR FUNCTION</b>	Peak (PK)
<b>FREQUENCY RANGE</b>	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	50.35 PK	74.00	-23.65	1.00 H	0	41.55	8.80
2	5148.00	39.00 AV	54.00	-15.00	1.00 H	0	30.20	8.80
3	5150.00	50.11 PK	74.00	-23.89	1.00 H	0	41.31	8.80
4	5150.00	39.50 AV	54.00	-14.50	1.00 H	0	30.70	8.80
5	*5240.00	101.61 PK			1.00 H	0	92.73	8.88
6	*5240.00	58.61 AV			1.00 H	0	49.73	8.88
7	5350.00	50.34 PK	74.00	-23.66	1.00 H	0	41.36	8.98
8	5350.00	40.00 AV	54.00	-14.00	1.00 H	0	31.02	8.98
9	5352.00	50.12 PK	74.00	-23.88	1.00 H	0	41.14	8.98
10	5352.00	39.80 AV	54.00	-14.20	1.00 H	0	30.82	8.98
11	#10480.00	56.94 PK	68.20	-11.26	1.00 H	0	38.57	18.37
12	15720.00	63.24 PK	74.00	-10.76	1.00 H	0	38.81	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**

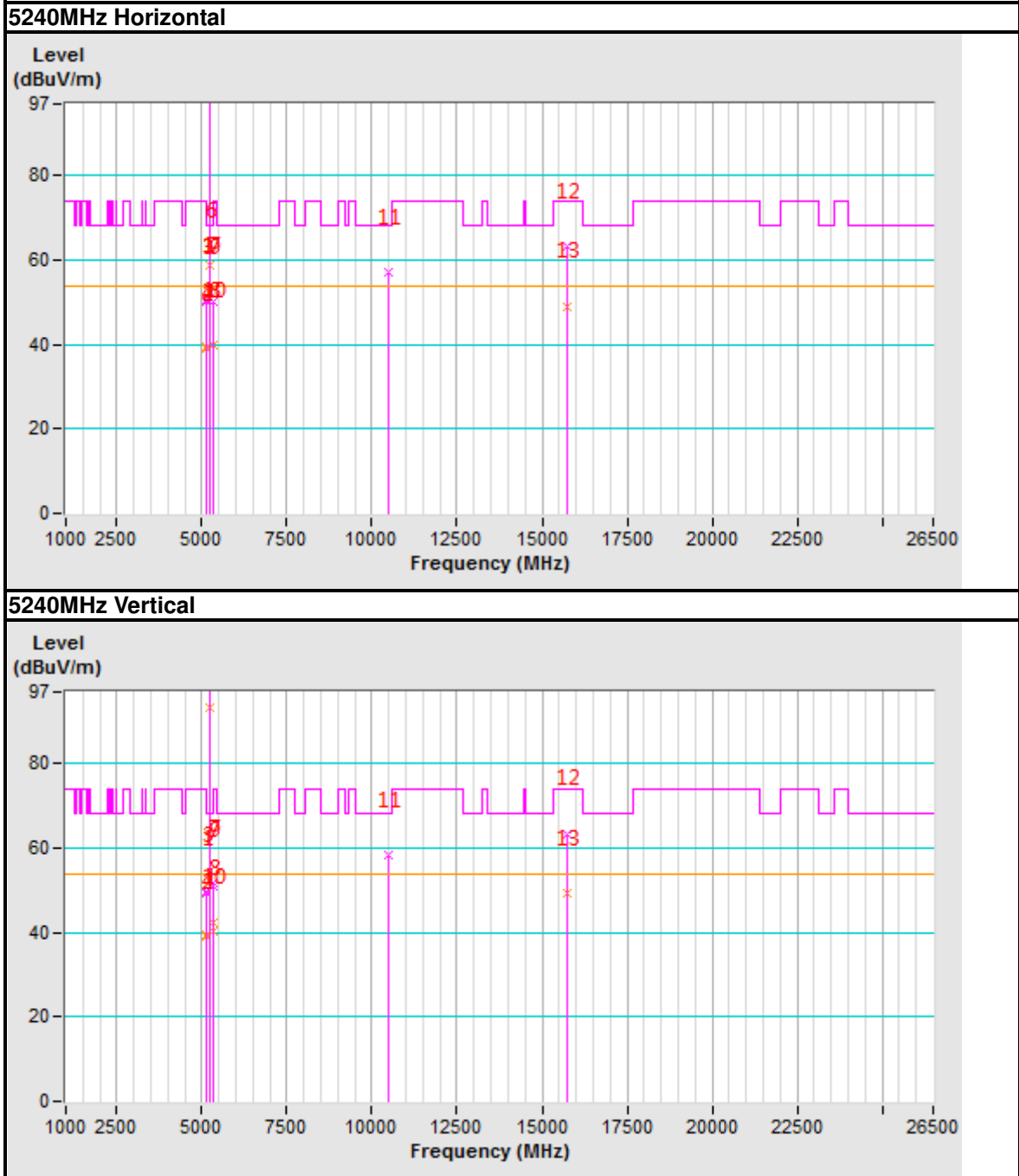
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5148.00	49.39 PK	74.00	-24.61	1.00 V	21	40.59	8.80
2	5148.00	39.11 AV	54.00	-14.89	1.00 V	21	30.31	8.80
3	5150.00	49.91 PK	74.00	-24.09	1.00 V	21	41.11	8.80
4	5150.00	39.50 AV	54.00	-14.50	1.00 V	21	30.70	8.80
5	*5240.00	107.42 PK			1.00 V	21	98.54	8.88
6	*5240.00	93.48 AV			1.00 V	21	84.60	8.88
7	5350.00	51.60 PK	74.00	-22.40	1.00 V	21	42.62	8.98
8	5350.00	42.21 AV	54.00	-11.79	1.00 V	21	33.23	8.98
9	5352.00	51.11 PK	74.00	-22.89	1.00 V	21	42.13	8.98
10	5352.00	40.11 AV	54.00	-13.89	1.00 V	21	31.13	8.98
11	#10480.00	58.49 PK	68.20	-9.71	1.00 V	0	40.12	18.37
12	15720.00	63.48 PK	74.00	-10.52	1.00 V	0	39.05	24.43
13	15720.00	49.25 AV	54.00	-4.75	1.00 V	0	24.82	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 less than 20dB margin against the limit.
4. Margin value = Emission level – Limit value.
5. " \* ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.



Test Plot





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	5148.00	50.01 PK	74.00	-23.99	1.00 H	20	41.21	8.80
2	5148.00	38.10 AV	54.00	-15.90	1.00 H	20	29.30	8.80
3	5150.00	50.30 PK	74.00	-23.70	1.00 H	20	41.50	8.80
4	5150.00	39.23 AV	54.00	-14.77	1.00 H	20	30.43	8.80
5	*5190.00	90.30 PK			1.00 H	20	81.47	8.83
6	*5190.00	73.29 AV			1.00 H	20	64.46	8.83
7	#10380.00	58.23 PK	68.20	-9.97	1.00 H	0	40.32	17.91
8	15570.00	63.63 PK	74.00	-10.37	1.00 H	0	39.48	24.15
9	15570.00	49.21 AV	54.00	-4.79	1.00 H	0	25.06	24.15

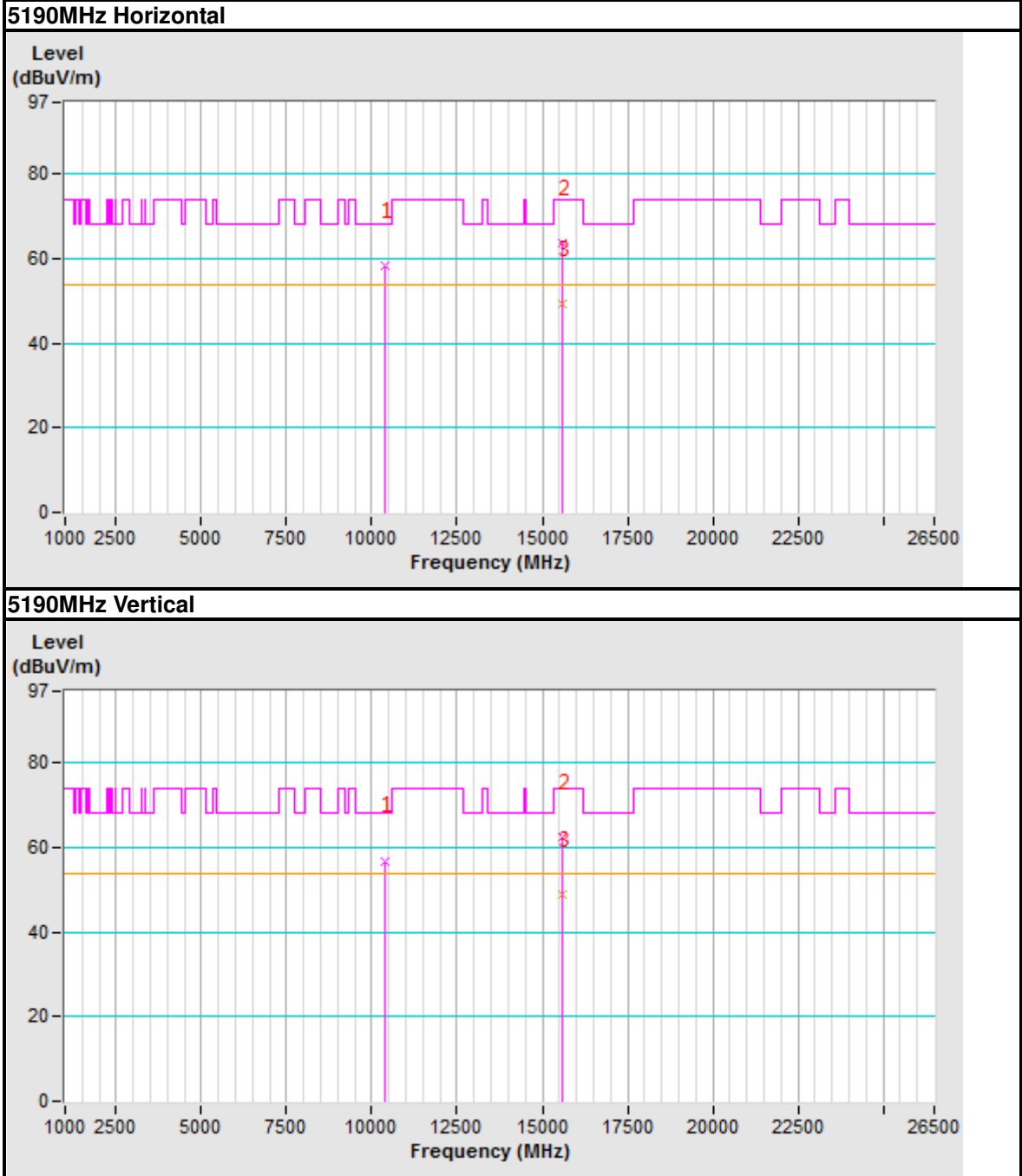
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5145.00	50.09 PK	74.00	-23.91	1.00 V	0	41.30	8.79
2	5145.00	38.19 AV	54.00	-15.81	1.00 V	0	29.40	8.79
3	5150.00	52.91 PK	74.00	-21.09	1.00 V	0	44.11	8.80
4	5150.00	38.27 AV	54.00	-15.73	1.00 V	0	29.47	8.80
5	*5190.00	96.68 PK			1.00 V	0	87.85	8.83
6	*5190.00	79.29 AV			1.00 V	0	70.46	8.83
7	#10380.00	56.92 PK	68.20	-11.28	1.00 V	0	39.01	17.91
8	15570.00	62.48 PK	74.00	-11.52	1.00 V	0	38.33	24.15
9	15570.00	48.80 AV	54.00	-5.20	1.00 V	0	24.65	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 less than 20dB margin against the limit.
4. Margin value = Emission level – Limit value.
5. " \* ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.



**Test Plot**

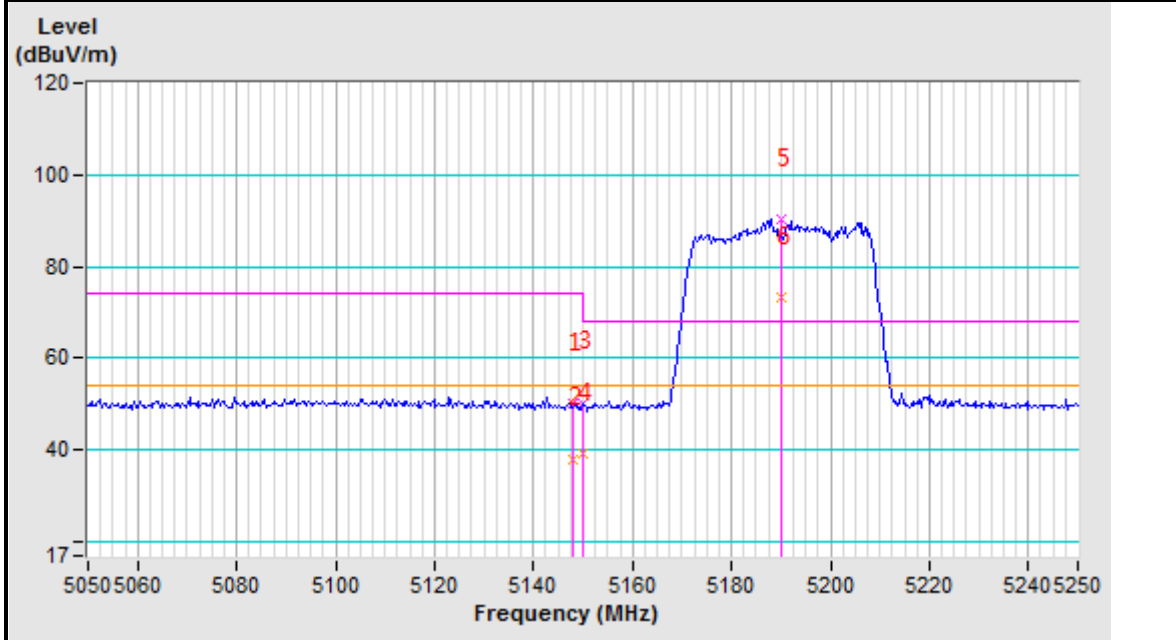




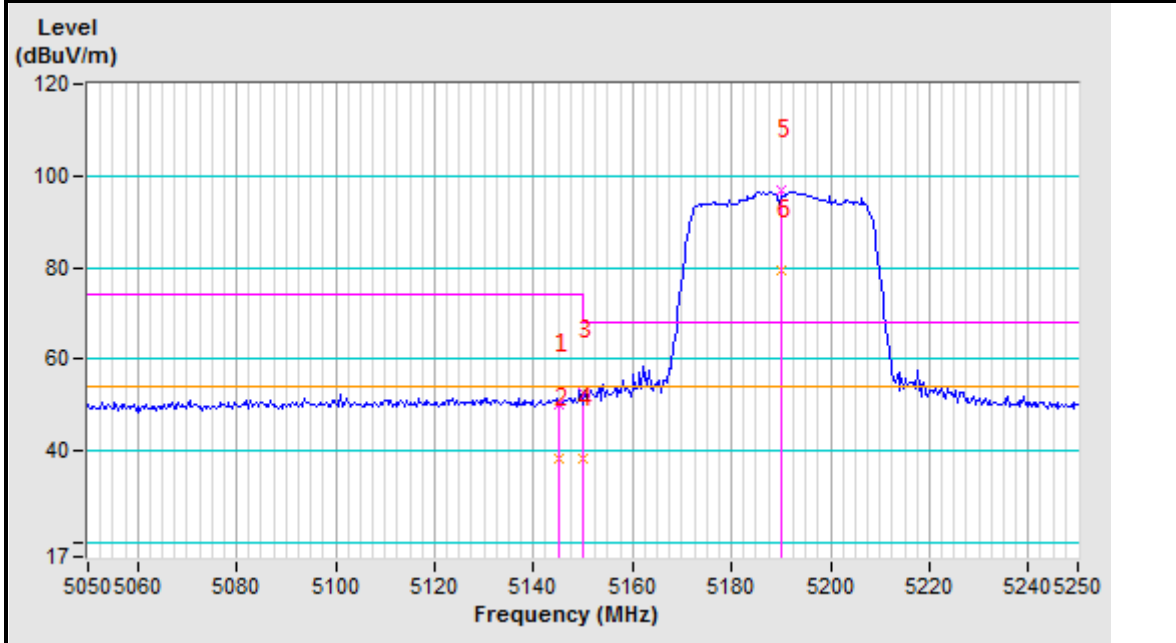


### Band edge Plot

#### 5190MHz Horizontal



#### 5190MHz Vertical





<b>CHANNEL</b>	TX Channel 46	<b>DETECTOR FUNCTION</b>	Peak (PK)
<b>FREQUENCY RANGE</b>	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	52.14 PK	74.00	-21.86	1.00 H	20	43.35	8.79
2	5146.00	38.20 AV	54.00	-15.80	1.00 H	20	29.41	8.79
3	5150.00	52.67 PK	74.00	-21.33	1.00 H	20	43.87	8.80
4	5150.00	39.56 AV	54.00	-14.44	1.00 H	20	30.76	8.80
5	*5230.00	99.24 PK			1.00 H	20	90.37	8.87
6	*5230.00	82.48 AV			1.00 H	20	73.61	8.87
7	#10460.00	57.66 PK	68.20	-10.54	1.00 H	0	39.38	18.28
8	15690.00	62.39 PK	74.00	-11.61	1.00 H	0	38.02	24.37
9	15690.00	49.32 AV	54.00	-4.68	1.00 H	0	24.95	24.37

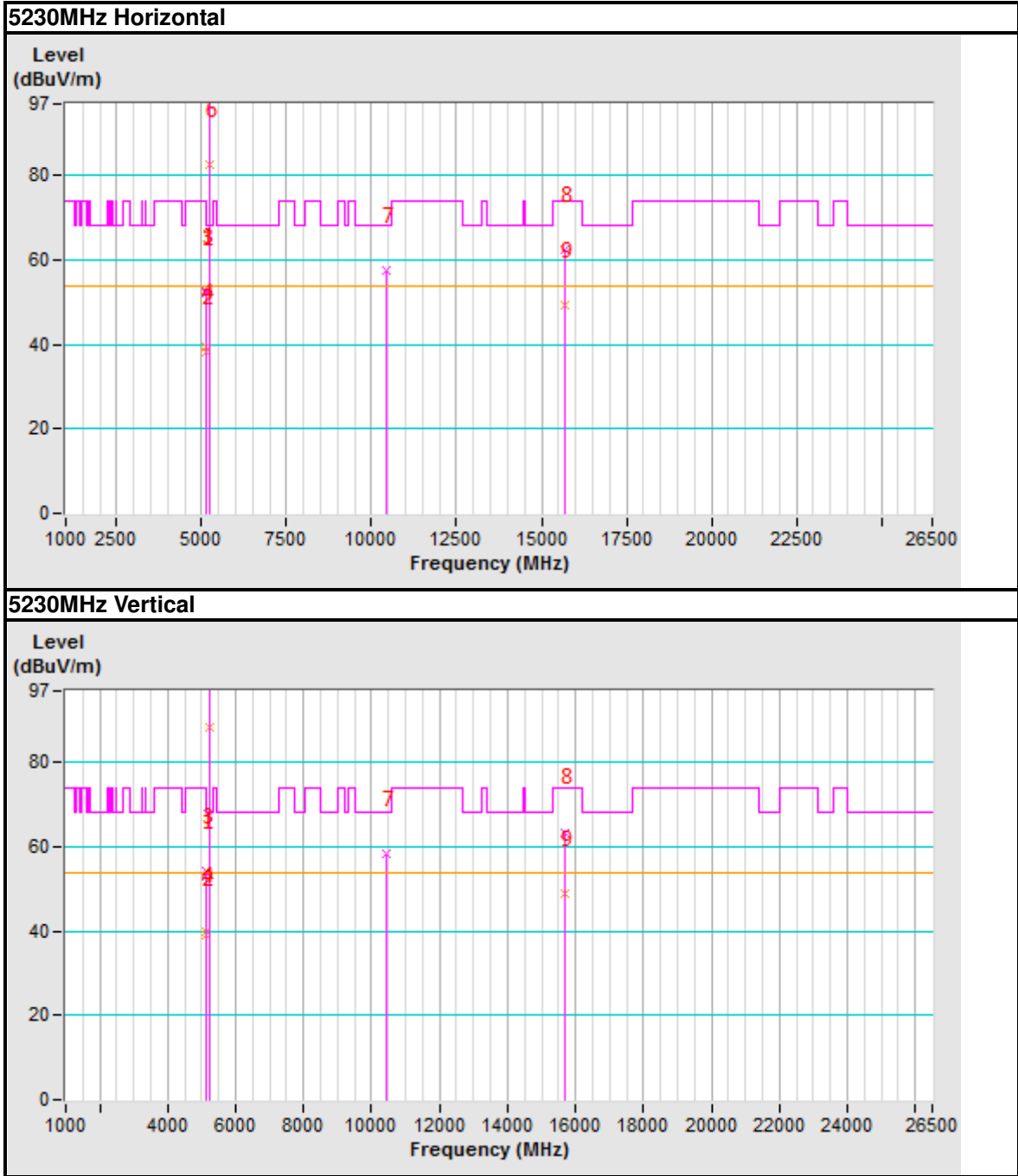
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5142.00	53.14 PK	74.00	-20.86	1.00 V	60	44.35	8.79
2	5142.00	39.20 AV	54.00	-14.80	1.00 V	60	30.41	8.79
3	5150.00	54.06 PK	74.00	-19.94	1.00 V	60	45.26	8.80
4	5150.00	40.03 AV	54.00	-13.97	1.00 V	60	31.23	8.80
5	*5230.00	105.07 PK			1.00 V	60	96.20	8.87
6	*5230.00	88.21 AV			1.00 V	60	79.34	8.87
7	#10460.00	58.29 PK	68.20	-9.91	1.00 V	0	40.01	18.28
8	15690.00	63.48 PK	74.00	-10.52	1.00 V	0	39.11	24.37
9	15690.00	48.72 AV	54.00	-5.28	1.00 V	0	24.35	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 less than 20dB margin against the limit.
4. Margin value = Emission level – Limit value.
5. " \* ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.



Test Plot





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	5145.00	63.62 PK	74.00	-10.38	1.00 H	31	54.83	8.79
2	5145.00	43.20 AV	54.00	-10.80	1.00 H	31	34.41	8.79
3	5150.00	64.66 PK	74.00	-9.34	1.00 H	31	55.86	8.80
4	5150.00	45.20 AV	54.00	-8.80	1.00 H	31	36.40	8.80
5	*5210.00	99.42 PK			1.00 H	31	90.57	8.85
6	*5210.00	77.02 AV			1.00 H	31	68.17	8.85
7	#10420.00	57.23 PK	68.20	-10.97	1.00 H	0	39.14	18.09
8	15630.00	63.49 PK	74.00	-10.51	1.00 H	0	39.23	24.26
9	15630.00	49.23 AV	54.00	-4.77	1.00 H	0	24.97	24.26

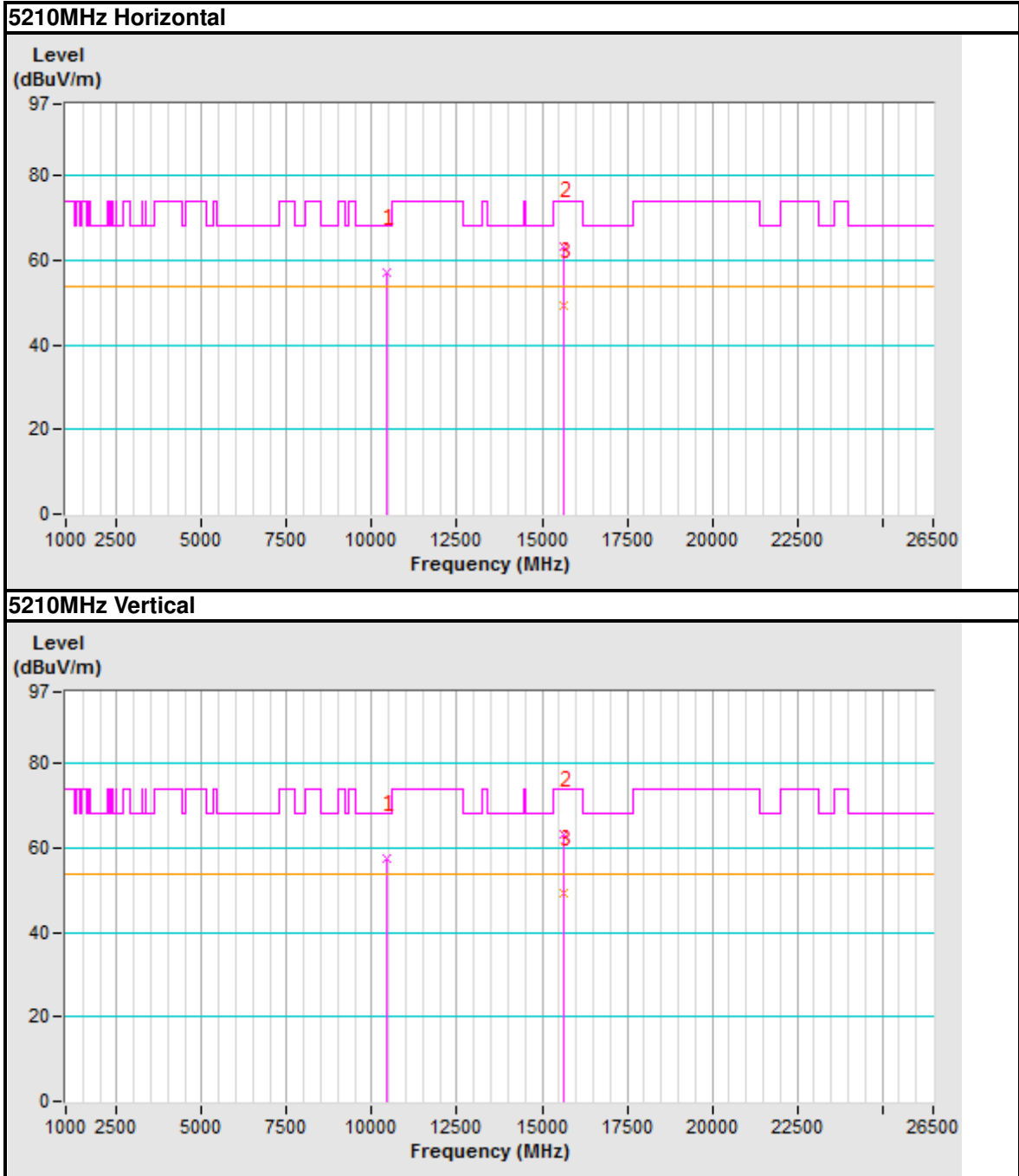
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5148.00	69.93 PK	74.00	-4.07	1.00 V	220	61.13	8.80
2	5148.00	47.60 AV	54.00	-6.40	1.00 V	220	38.80	8.80
3	5150.00	70.30 PK	74.00	-3.70	1.00 V	220	61.50	8.80
4	5150.00	48.41 AV	54.00	-5.59	1.00 V	220	39.61	8.80
5	*5210.00	102.31 PK			1.00 V	220	93.46	8.85
6	*5210.00	79.46 AV			1.00 V	220	70.61	8.85
7	#10420.00	57.39 PK	68.20	-10.81	1.00 V	0	39.30	18.09
8	15630.00	63.24 PK	74.00	-10.76	1.00 V	0	38.98	24.26
9	15630.00	49.24 AV	54.00	-4.76	1.00 V	0	24.98	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 less than 20dB margin against the limit.
4. Margin value = Emission level – Limit value.
5. " \* ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.



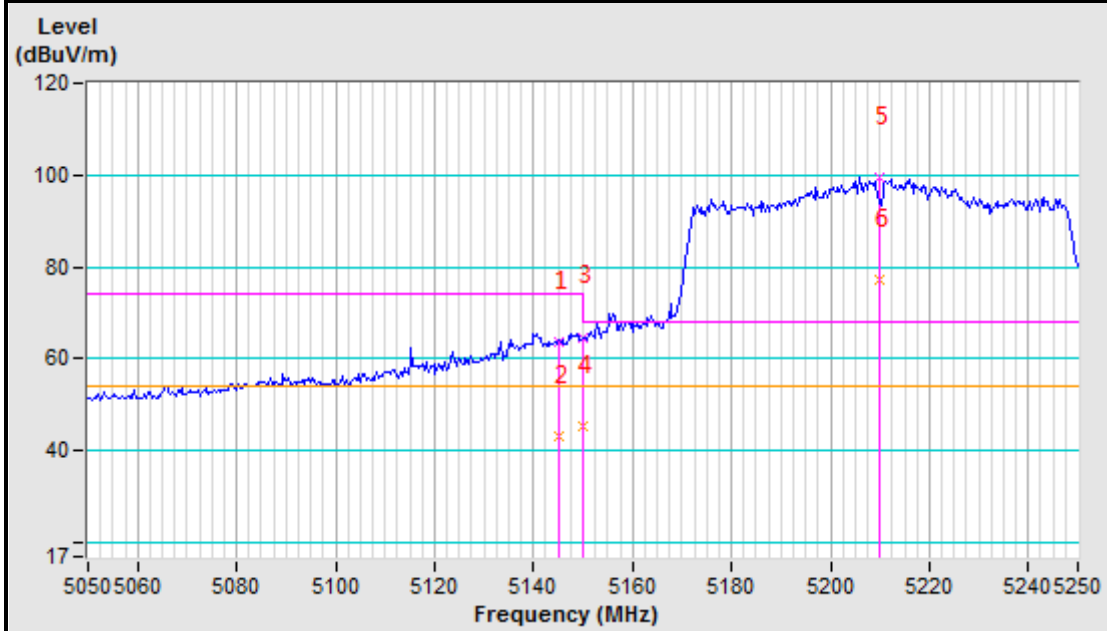
**Test Plot**



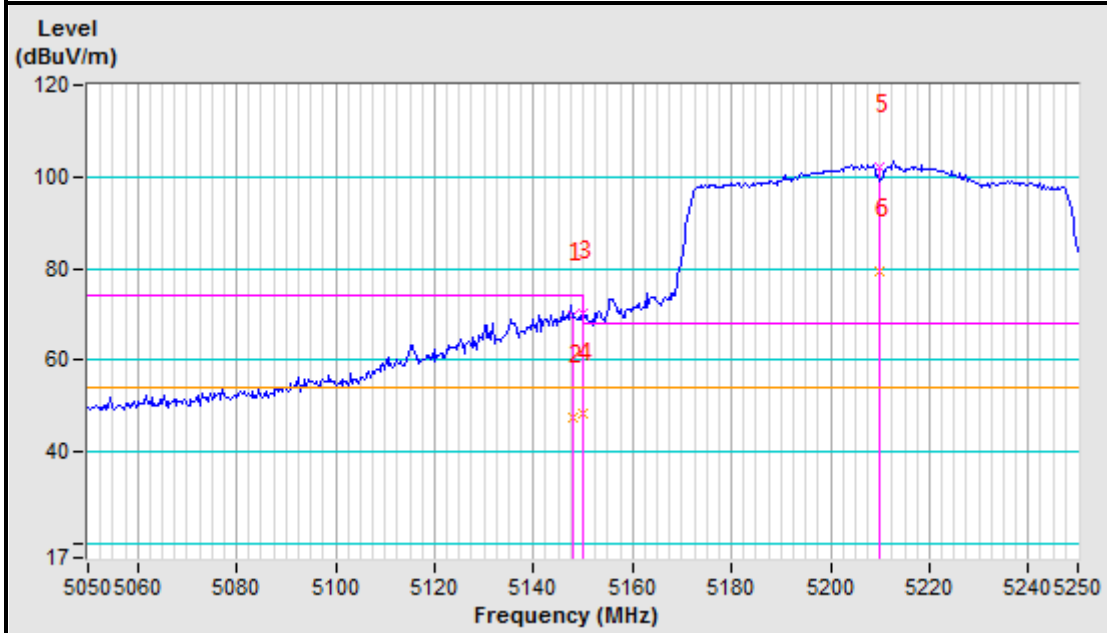


Band edge Plot

5210MHz Horizontal



5210MHz Vertical



**Band 2 (5250-5350MHz):802.11a**

<b>CHANNEL</b>	TX Channel 52	<b>DETECTOR FUNCTION</b>	Peak (PK)
<b>FREQUENCY RANGE</b>	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	49.58 PK	74.00	-24.42	1.00 H	22	40.79	8.79
2	5147.00	38.40 AV	54.00	-15.60	1.00 H	22	29.61	8.79
3	5150.00	50.12 PK	74.00	-23.88	1.00 H	22	41.32	8.80
4	5150.00	39.00 AV	54.00	-15.00	1.00 H	22	30.20	8.80
5	*5260.00	104.48 PK			1.00 H	22	95.58	8.90
6	*5260.00	90.39 AV			1.00 H	22	81.49	8.90
7	5350.00	51.23 PK	74.00	-22.77	1.00 H	22	42.25	8.98
8	5350.00	39.79 AV	54.00	-14.21	1.00 H	22	30.81	8.98
9	5353.00	50.49 PK	74.00	-23.51	1.00 H	22	41.50	8.99
10	5353.00	39.69 AV	54.00	-14.31	1.00 H	22	30.70	8.99
11	#10520.00	57.92 PK	68.20	-10.28	1.00 H	0	39.40	18.52
12	15780.00	64.29 PK	74.00	-9.71	1.00 H	0	39.76	24.53
13	15780.00	50.02 AV	54.00	-3.98	1.00 H	0	25.49	24.53

**ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M**

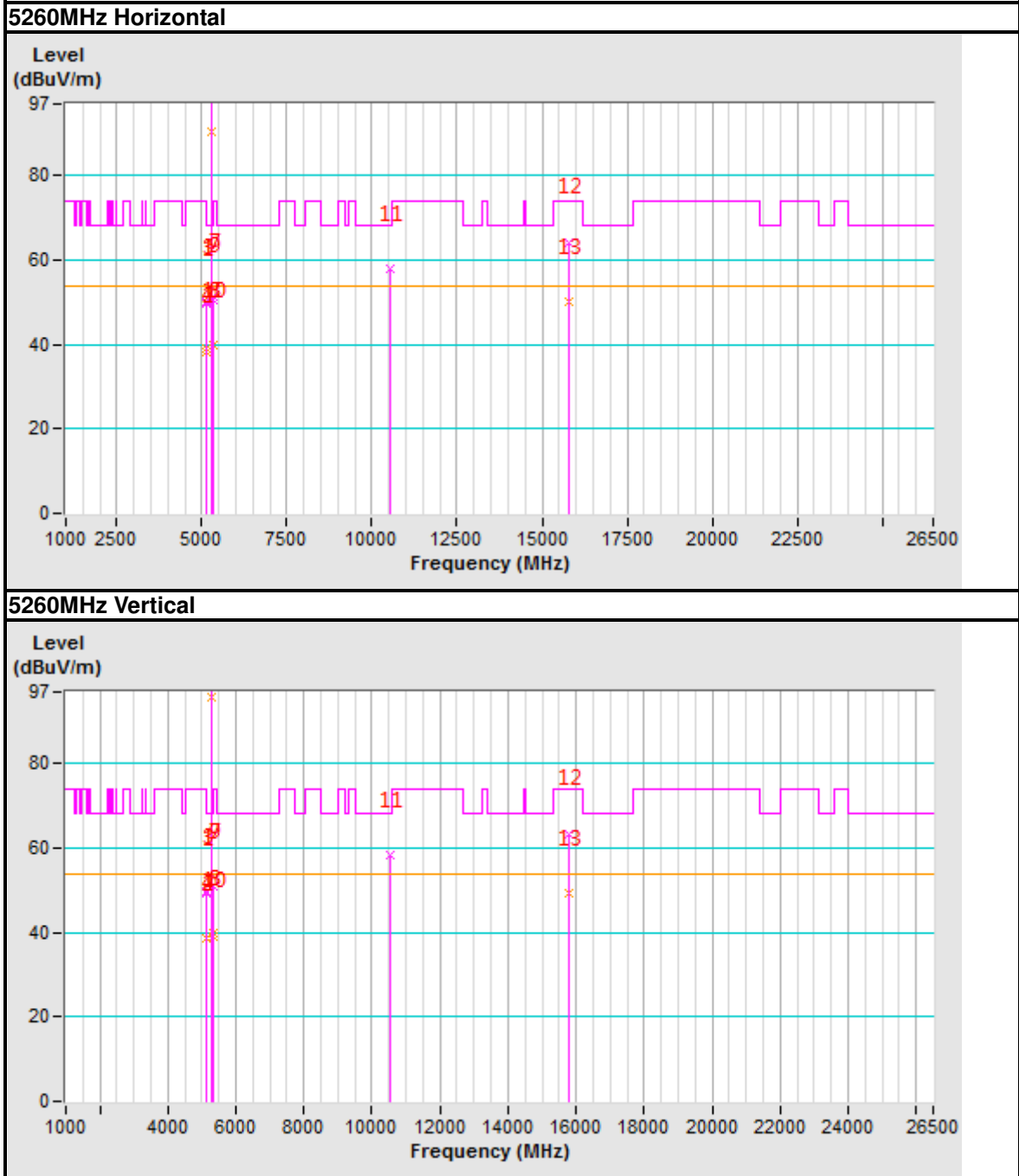
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5144.00	49.20 PK	74.00	-24.80	1.00 V	35	40.40	8.80
2	5144.00	38.44 AV	54.00	-15.56	1.00 V	35	29.64	8.80
3	5150.00	49.70 PK	74.00	-24.30	1.00 V	35	40.90	8.80
4	5150.00	38.80 AV	54.00	-15.20	1.00 V	35	30.00	8.80
5	*5260.00	109.59 PK			1.00 V	35	100.69	8.90
6	*5260.00	95.87 AV			1.00 V	35	86.97	8.90
7	5350.00	50.98 PK	74.00	-23.02	1.00 V	35	42.00	8.98
8	5350.00	39.71 AV	54.00	-14.29	1.00 V	35	30.73	8.98
9	5355.00	50.77 PK	74.00	-23.23	1.00 V	35	41.78	8.99
10	5355.00	39.20 AV	54.00	-14.80	1.00 V	35	30.21	8.99
11	#10520.00	58.23 PK	68.20	-9.97	1.00 V	0	39.71	18.52
12	15780.00	63.49 PK	74.00	-10.51	1.00 V	0	38.96	24.53
13	15780.00	49.30 AV	54.00	-4.70	1.00 V	0	24.77	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 less than 20dB margin against the limit.
4. Margin value = Emission level – Limit value.
5. " \* " : Fundamental frequency.



Test Plot







<b>CHANNEL</b>	TX Channel 60	<b>DETECTOR FUNCTION</b>	Peak (PK)
<b>FREQUENCY RANGE</b>	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	104.45 PK			1.00 H	25	95.52	8.93
2	*5300.00	90.05 AV			1.00 H	25	81.12	8.93
3	5350.00	53.40 PK	74.00	-20.60	1.00 H	25	44.42	8.98
4	5350.00	39.90 AV	54.00	-14.10	1.00 H	25	30.92	8.98
5	5356.00	52.94 PK	74.00	-21.06	1.00 H	25	43.96	8.98
6	5356.00	39.20 AV	54.00	-14.80	1.00 H	25	30.22	8.98
7	10600.00	58.47 PK	74.00	-15.53	1.00 H	0	39.76	18.71
8	10600.00	46.10 AV	54.00	-7.90	1.00 H	0	27.39	18.71
9	15900.00	64.23 PK	74.00	-9.77	1.00 H	0	39.48	24.75
10	15900.00	50.20 AV	54.00	-3.80	1.00 H	0	25.45	24.75

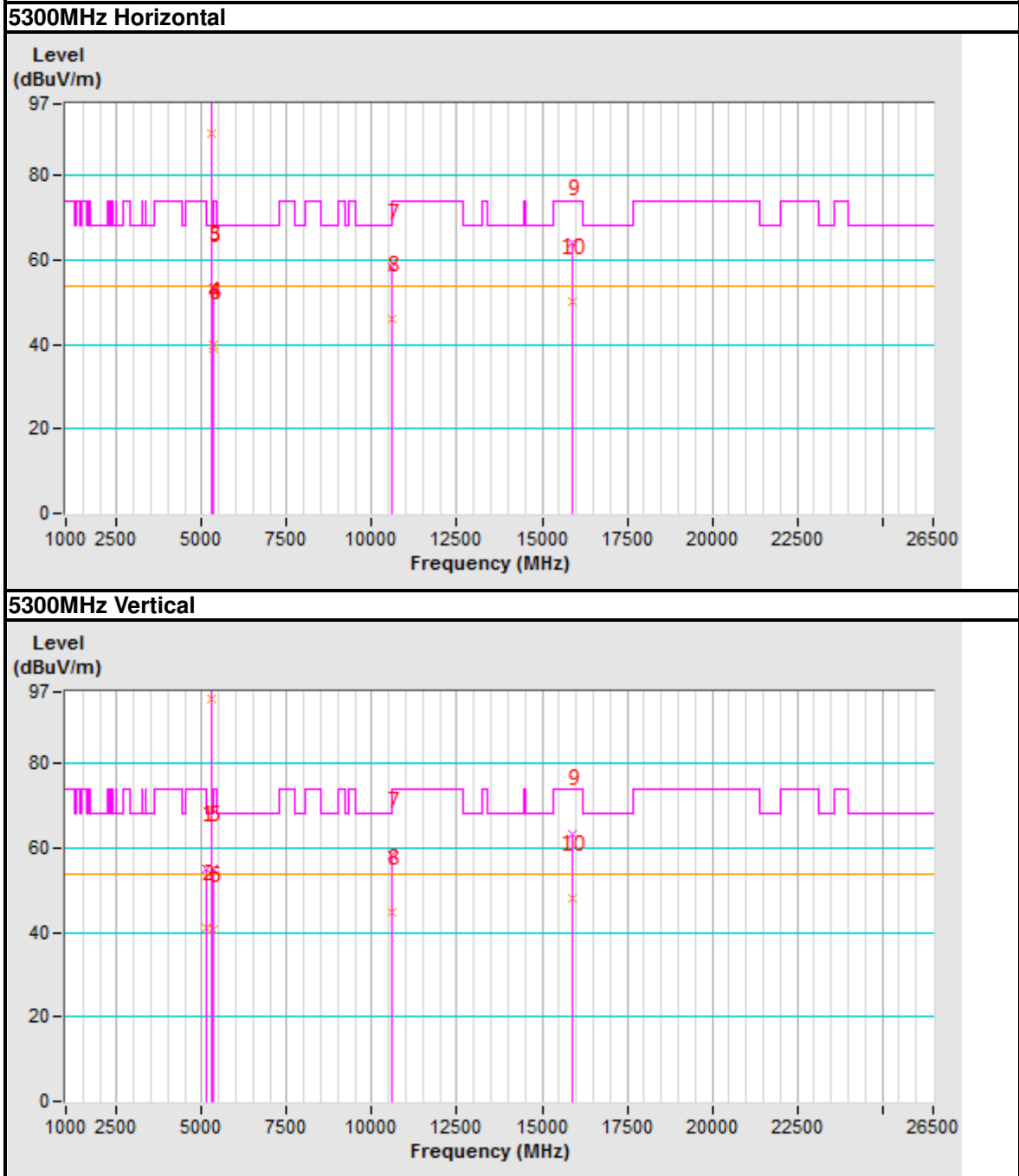
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5155.00	55.01 PK	68.20	-13.19	1.00 V	36	46.21	8.80
2	#5155.00	41.03 AV	54.00	-12.97	1.00 V	36	32.23	8.80
3	*5300.00	110.08 PK			1.00 V	36	101.15	8.93
4	*5300.00	95.28 AV			1.00 V	36	86.35	8.93
5	5350.00	54.95 PK	74.00	-19.05	1.00 V	36	45.97	8.98
6	5350.00	40.68 AV	54.00	-13.32	1.00 V	36	31.70	8.98
7	10600.00	58.49 PK	74.00	-15.51	1.00 V	0	39.78	18.71
8	10600.00	44.90 AV	54.00	-9.10	1.00 V	0	26.19	18.71
9	15900.00	63.48 PK	74.00	-10.52	1.00 V	0	38.73	24.75
10	15900.00	47.90 AV	54.00	-6.10	1.00 V	0	23.15	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 less than 20dB margin against the limit.
4. Margin value = Emission level – Limit value.
5. " \* ": Fundamental frequency.



Test Plot





<b>CHANNEL</b>	TX Channel 64	<b>DETECTOR FUNCTION</b>	Peak (PK)
<b>FREQUENCY RANGE</b>	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	107.35 PK			1.00 H	0	98.39	8.96
2	*5320.00	94.21 AV			1.00 H	0	85.25	8.96
3	5350.00	61.60 PK	74.00	-12.40	1.00 H	0	52.62	8.98
4	5350.00	45.95 AV	54.00	-8.05	1.00 H	0	36.97	8.98
5	5352.00	59.34 PK	74.00	-14.66	1.00 H	0	50.36	8.98
6	5352.00	43.60 AV	54.00	-10.40	1.00 H	0	34.62	8.98
7	10640.00	57.64 PK	74.00	-16.36	1.00 H	0	38.83	18.81
8	10640.00	44.90 AV	54.00	-9.10	1.00 H	0	26.09	18.81
9	15900.00	63.34 PK	74.00	-10.66	1.00 H	0	38.59	24.75
10	15900.00	48.90 AV	54.00	-5.10	1.00 H	0	24.15	24.75

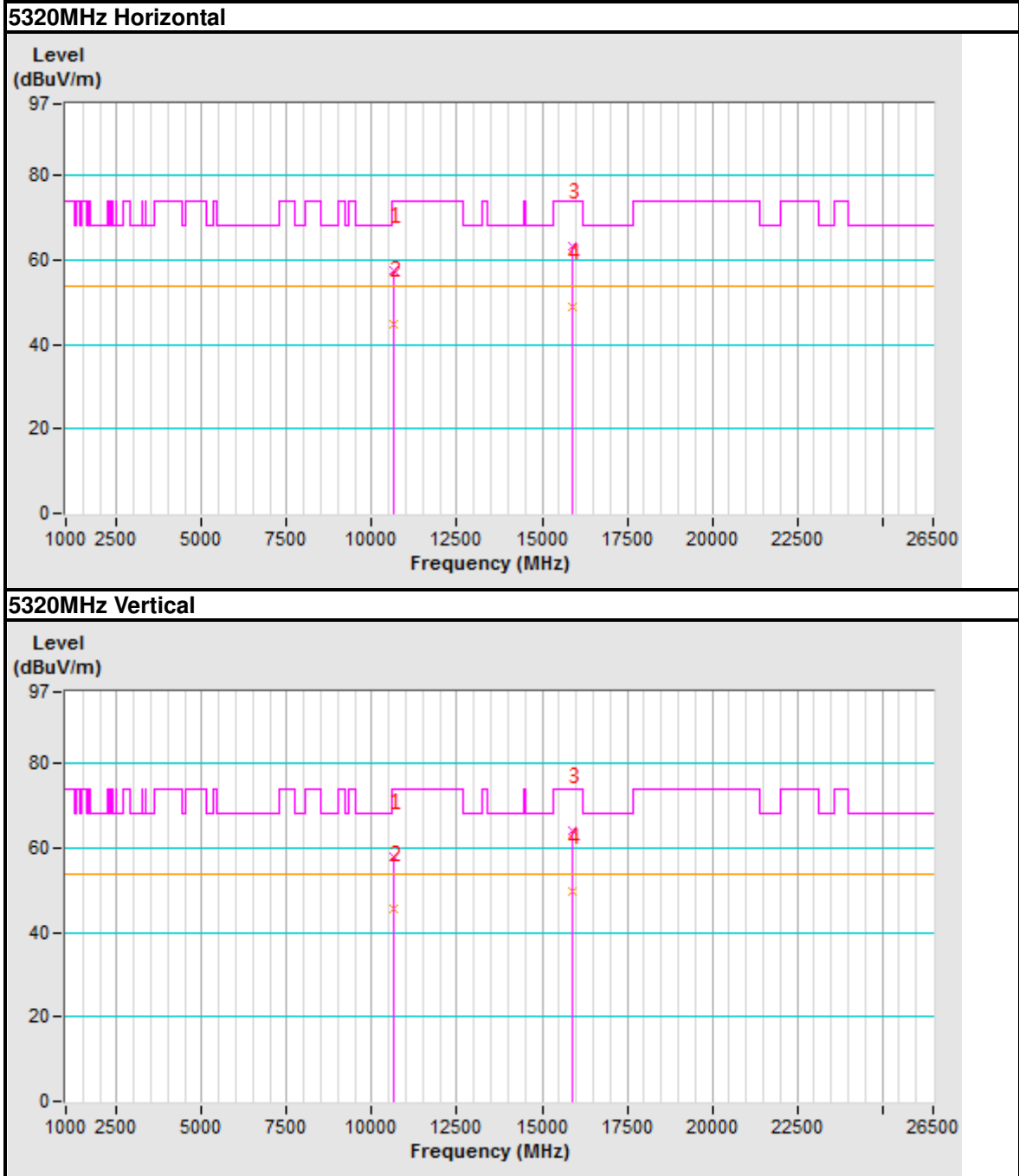
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5320.00	109.59 PK			1.00 V	35	100.63	8.96
2	*5320.00	95.05 AV			1.00 V	35	86.09	8.96
3	5350.00	65.63 PK	74.00	-8.37	1.00 V	35	56.65	8.98
4	5350.00	49.94 AV	54.00	-4.06	1.00 V	35	40.96	8.98
5	5355.00	66.31 PK	74.00	-7.69	1.00 V	35	57.32	8.99
6	5355.00	48.75 AV	54.00	-5.25	1.00 V	35	39.76	8.99
7	10640.00	57.84 PK	74.00	-16.16	1.00 V	0	39.03	18.81
8	10640.00	45.51 AV	54.00	-8.49	1.00 V	0	26.70	18.81
9	15900.00	64.17 PK	74.00	-9.83	1.00 V	0	39.42	24.75
10	15900.00	49.87 AV	54.00	-4.13	1.00 V	0	25.12	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 less than 20dB margin against the limit.
4. Margin value = Emission level – Limit value.
5. " \* ": Fundamental frequency.



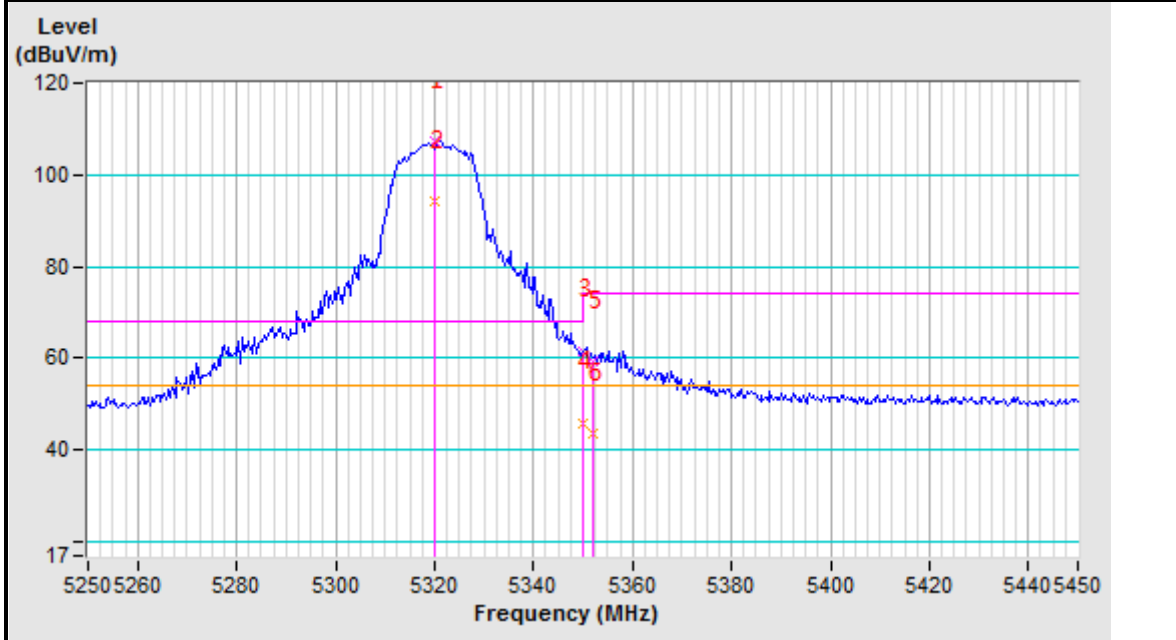
### Test Plot



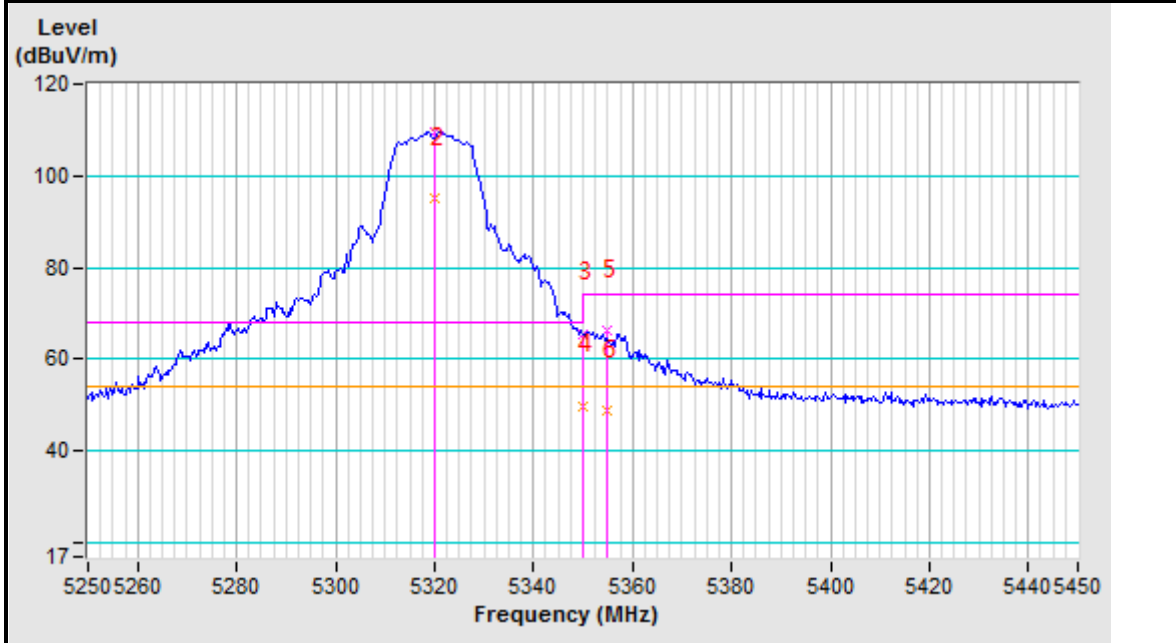


### Band edge Plot

#### 5320MHz Horizontal



#### 5320MHz Vertical





**802.11n (20MHz)**

<b>CHANNEL</b>	TX Channel 52	<b>DETECTOR FUNCTION</b>	Peak (PK)
<b>FREQUENCY RANGE</b>	1GHz ~ 40GHz		Average (AV)

<b>ANTENNA POLARITY &amp; TEST DISTANCE: HORIZONTAL AT 3 M</b>								
NO.	FREQ. (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	49.98 PK	74.00	-24.02	1.00 H	0	41.18	8.80
2	5148.00	39.10 AV	54.00	-14.90	1.00 H	0	30.30	8.80
3	5150.00	50.30 PK	74.00	-23.70	1.00 H	0	41.50	8.80
4	5150.00	39.60 AV	54.00	-14.40	1.00 H	0	30.80	8.80
5	*5260.00	107.64 PK			1.00 H	0	98.74	8.90
6	*5260.00	93.10 AV			1.00 H	0	84.20	8.90
7	5350.00	52.16 PK	74.00	-21.84	1.00 H	0	43.18	8.98
8	5350.00	40.52 AV	54.00	-13.48	1.00 H	0	31.54	8.98
9	5355.00	51.79 PK	74.00	-22.21	1.00 H	0	42.80	8.99
10	5355.00	40.30 AV	54.00	-13.70	1.00 H	0	31.31	8.99
11	#10520.00	56.18 PK	68.20	-12.02	1.00 H	0	37.66	18.52
12	15780.00	63.39 PK	74.00	-10.61	1.00 H	0	38.86	24.53
13	15780.00	49.00 AV	54.00	-5.00	1.00 H	0	24.47	24.53

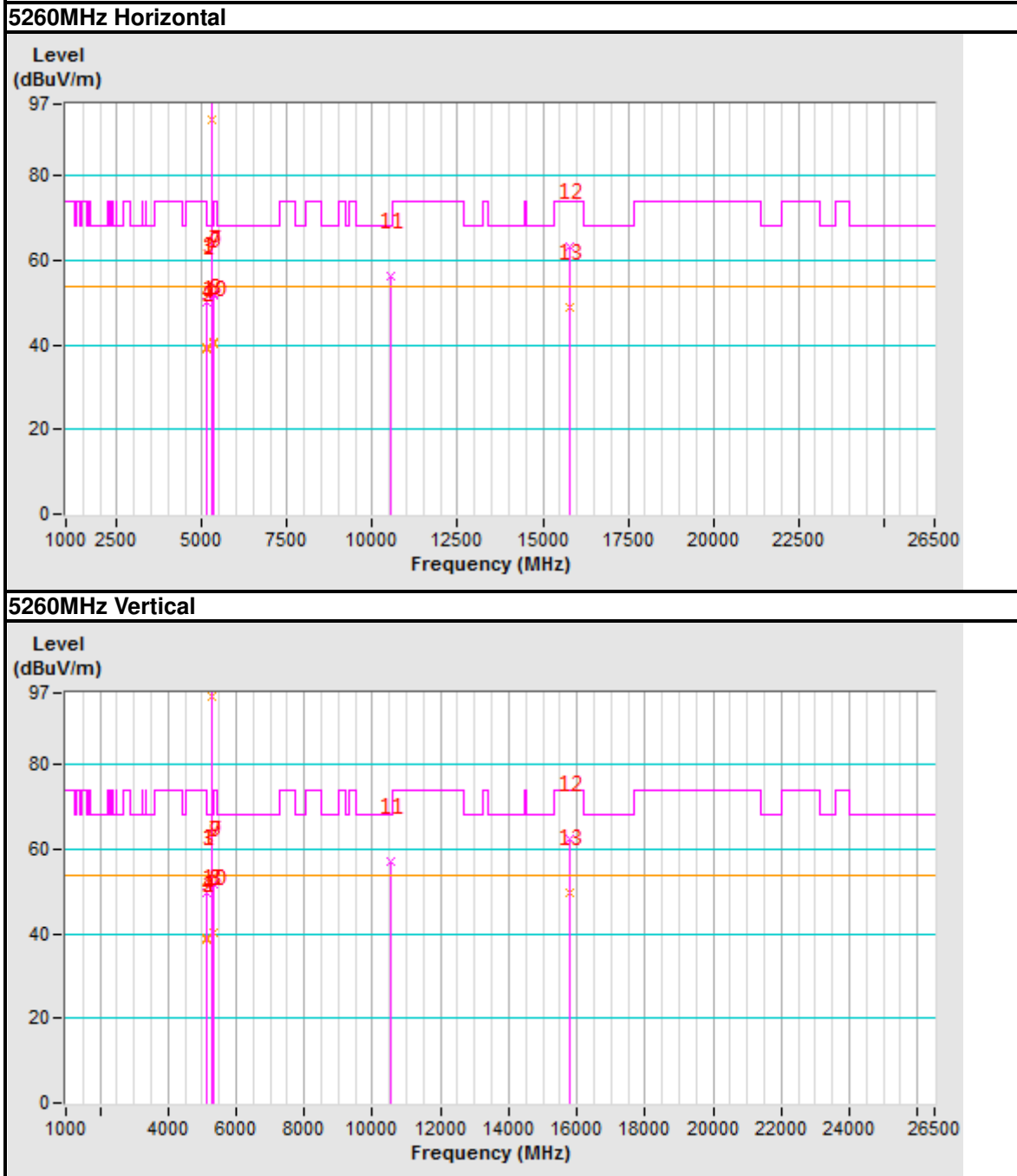
<b>ANTENNA POLARITY &amp; TEST DISTANCE: VERTICAL AT 3 M</b>								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5146.00	49.60 PK	74.00	-24.40	1.00 V	32	40.81	8.79
2	5146.00	38.49 AV	54.00	-15.51	1.00 V	32	29.70	8.79
3	5150.00	49.77 PK	74.00	-24.23	1.00 V	32	40.97	8.80
4	5150.00	38.90 AV	54.00	-15.10	1.00 V	32	30.10	8.80
5	*5260.00	110.44 PK			1.00 V	32	101.54	8.90
6	*5260.00	96.12 AV			1.00 V	32	87.22	8.90
7	5350.00	51.92 PK	74.00	-22.08	1.00 V	32	42.94	8.98
8	5350.00	40.20 AV	54.00	-13.80	1.00 V	32	31.22	8.98
9	5356.00	51.70 PK	74.00	-22.30	1.00 V	32	42.72	8.98
10	5356.00	40.13 AV	54.00	-13.87	1.00 V	32	31.15	8.98
11	#10520.00	57.26 PK	68.20	-10.94	1.00 V	0	38.74	18.52
12	15780.00	62.39 PK	74.00	-11.61	1.00 V	0	37.86	24.53
13	15780.00	49.82 AV	54.00	-4.18	1.00 V	0	25.29	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 less than 20dB margin against the limit.
4. Margin value = Emission level – Limit value.
5. " \* " : Fundamental frequency.



### Test Plot





<b>CHANNEL</b>	TX Channel 60	<b>DETECTOR FUNCTION</b>	Peak (PK)
<b>FREQUENCY RANGE</b>	1GHz ~ 40GHz		Average (AV)

<b>ANTENNA POLARITY &amp; TEST DISTANCE: HORIZONTAL AT 3 M</b>								
NO.	FREQ. (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	106.24 PK			1.00 H	54	97.31	8.93
2	*5300.00	94.05 AV			1.00 H	54	85.12	8.93
3	5350.00	52.34 PK	74.00	-21.66	1.00 H	54	43.36	8.98
4	5350.00	40.06 AV	54.00	-13.94	1.00 H	54	31.08	8.98
5	5359.00	52.12 PK	74.00	-21.88	1.00 H	54	43.13	8.99
6	5359.00	40.30 AV	54.00	-13.70	1.00 H	54	31.31	8.99
7	10600.00	57.25 PK	74.00	-16.75	1.00 H	0	38.54	18.71
8	10600.00	45.10 AV	54.00	-8.90	1.00 H	0	26.39	18.71
9	15900.00	64.00 PK	74.00	-10.00	1.00 H	0	39.25	24.75
10	15900.00	51.00 AV	54.00	-3.00	1.00 H	0	26.25	24.75

<b>ANTENNA POLARITY &amp; TEST DISTANCE: VERTICAL AT 3 M</b>								
NO.	FREQ. (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	109.35 PK			1.00 V	60	100.42	8.93
2	*5300.00	95.12 AV			1.00 V	60	86.19	8.93
3	5350.00	57.17 PK	74.00	-16.83	1.00 V	60	48.19	8.98
4	5350.00	42.30 AV	54.00	-11.70	1.00 V	60	33.32	8.98
5	5356.00	56.18 PK	74.00	-17.82	1.00 V	60	47.20	8.98
6	5356.00	41.20 AV	54.00	-12.80	1.00 V	60	32.22	8.98
7	10600.00	56.18 PK	74.00	-17.82	1.00 V	0	37.47	18.71
8	10600.00	44.90 AV	54.00	-9.10	1.00 V	0	26.19	18.71
9	15900.00	63.32 PK	74.00	-10.68	1.00 V	0	38.57	24.75
10	15900.00	49.21 AV	54.00	-4.79	1.00 V	0	24.46	24.75

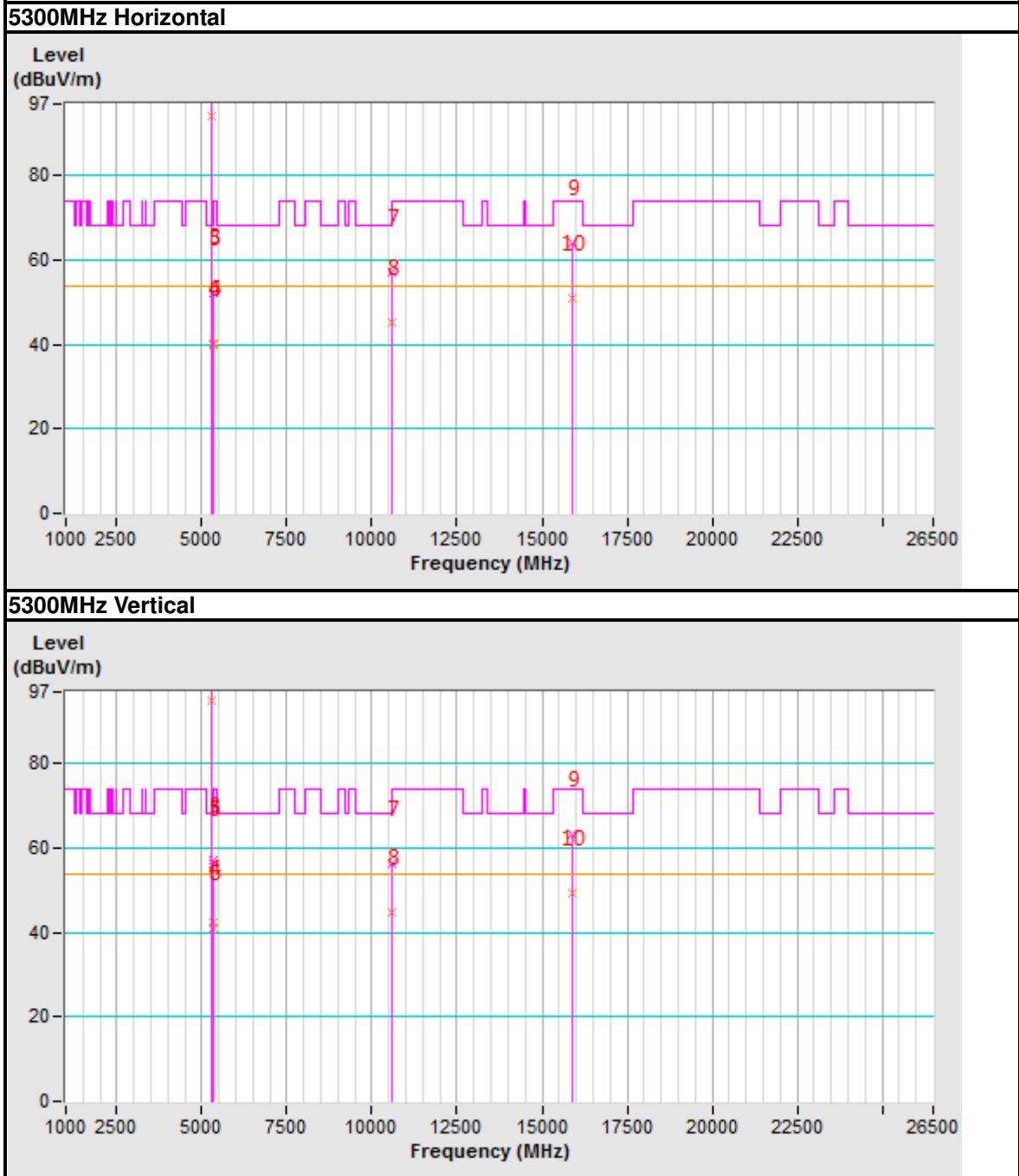
**REMARKS:**

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 less than 20dB margin against the limit.
4. Margin value = Emission level – Limit value.
5. " \* ": Fundamental frequency.





Test Plot





<b>CHANNEL</b>	TX Channel 64	<b>DETECTOR FUNCTION</b>	Peak (PK)
<b>FREQUENCY RANGE</b>	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	107.27 PK			1.00 H	51	98.31	8.96
2	*5320.00	93.04 AV			1.00 H	51	84.08	8.96
3	5350.00	64.67 PK	74.00	-9.33	1.00 H	51	55.69	8.98
4	5350.00	45.90 AV	54.00	-8.10	1.00 H	51	36.92	8.98
5	5352.00	63.49 PK	74.00	-10.51	1.00 H	51	54.51	8.98
6	5352.00	44.80 AV	54.00	-9.20	1.00 H	51	35.82	8.98
7	10640.00	57.77 PK	74.00	-16.23	1.00 H	0	38.96	18.81
8	10640.00	46.20 AV	54.00	-7.80	1.00 H	0	27.39	18.81
9	15900.00	64.28 PK	74.00	-9.72	1.00 H	0	39.53	24.75
10	15900.00	50.12 AV	54.00	-3.88	1.00 H	0	25.37	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	*5320.00	109.91 PK			1.00 V	44	100.95	8.96
2	*5320.00	95.05 AV			1.00 V	44	86.09	8.96
3	5350.00	67.67 PK	74.00	-6.33	1.00 V	44	58.69	8.98
4	5350.00	50.47 AV	54.00	-3.53	1.00 V	44	41.49	8.98
5	5353.00	69.90 PK	74.00	-4.10	1.00 V	44	60.91	8.99
6	5353.00	49.72 AV	54.00	-4.28	1.00 V	44	40.73	8.99
7	10640.00	57.95 PK	74.00	-16.05	1.00 V	0	39.14	18.81
8	10640.00	45.21 AV	54.00	-8.79	1.00 V	0	26.40	18.81
9	15960.00	63.34 PK	74.00	-10.66	1.00 V	0	38.47	24.87
10	15960.00	50.00 AV	54.00	-4.00	1.00 V	0	25.13	24.87

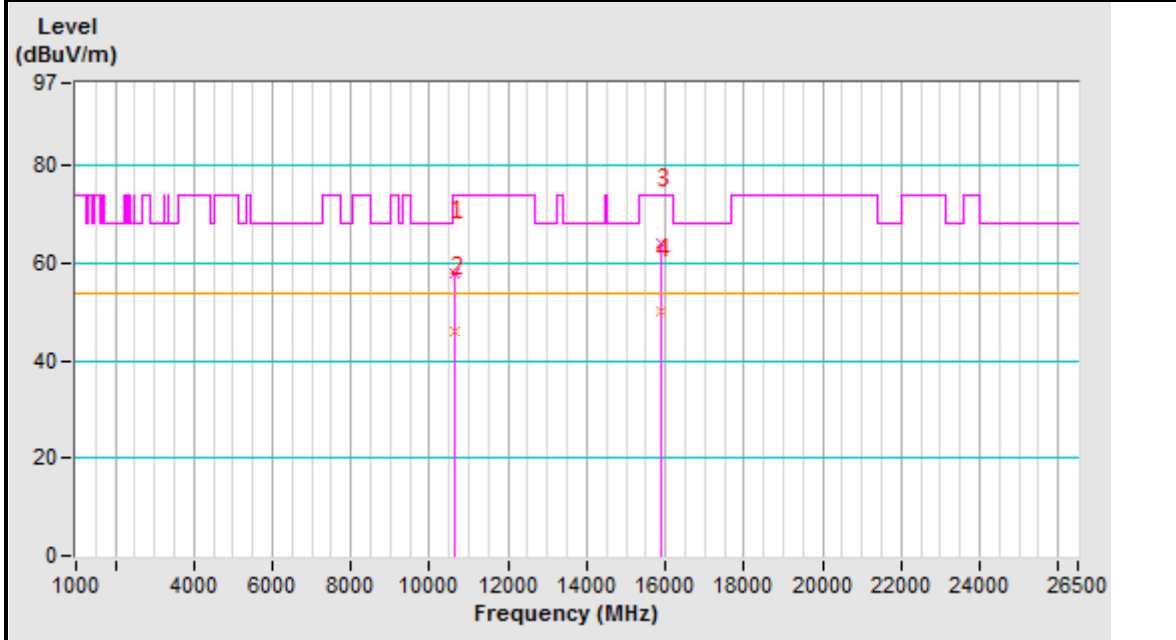
**REMARKS:**

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 less than 20dB margin against the limit.
4. Margin value = Emission level – Limit value.
5. " \* ": Fundamental frequency.

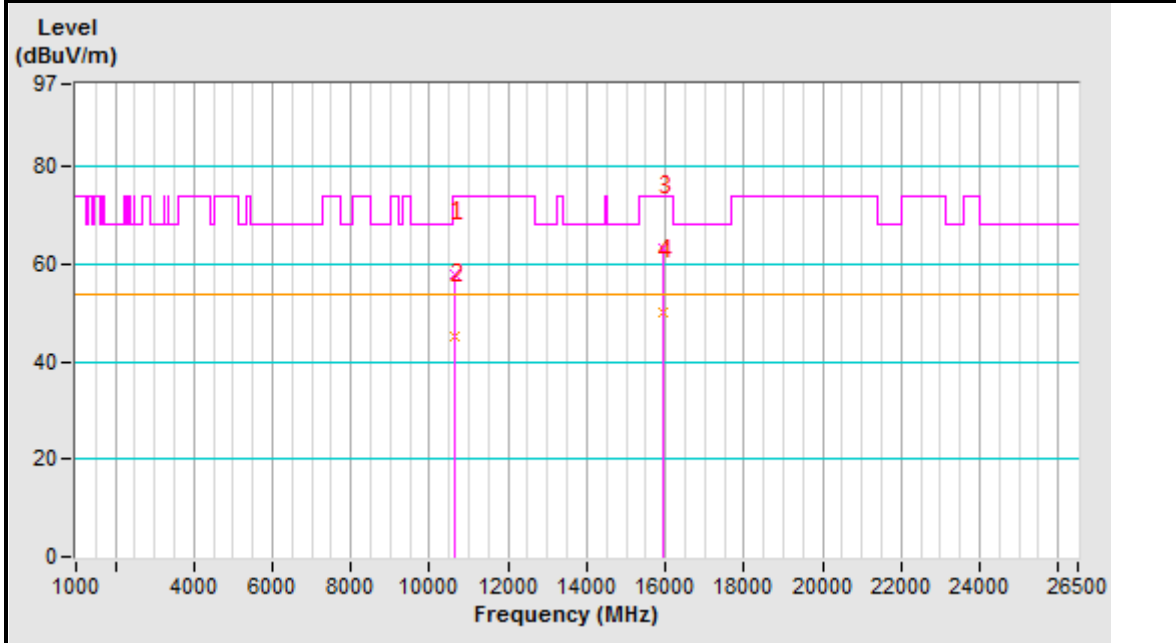


### Test Plot

#### 5320MHz Horizontal



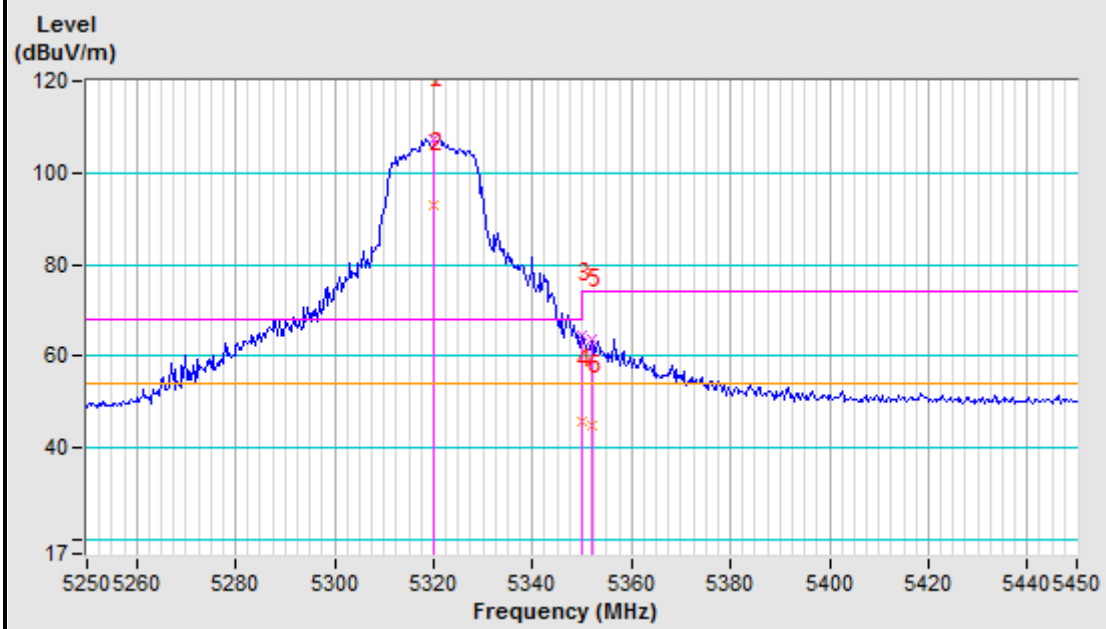
#### 5320MHz Vertical



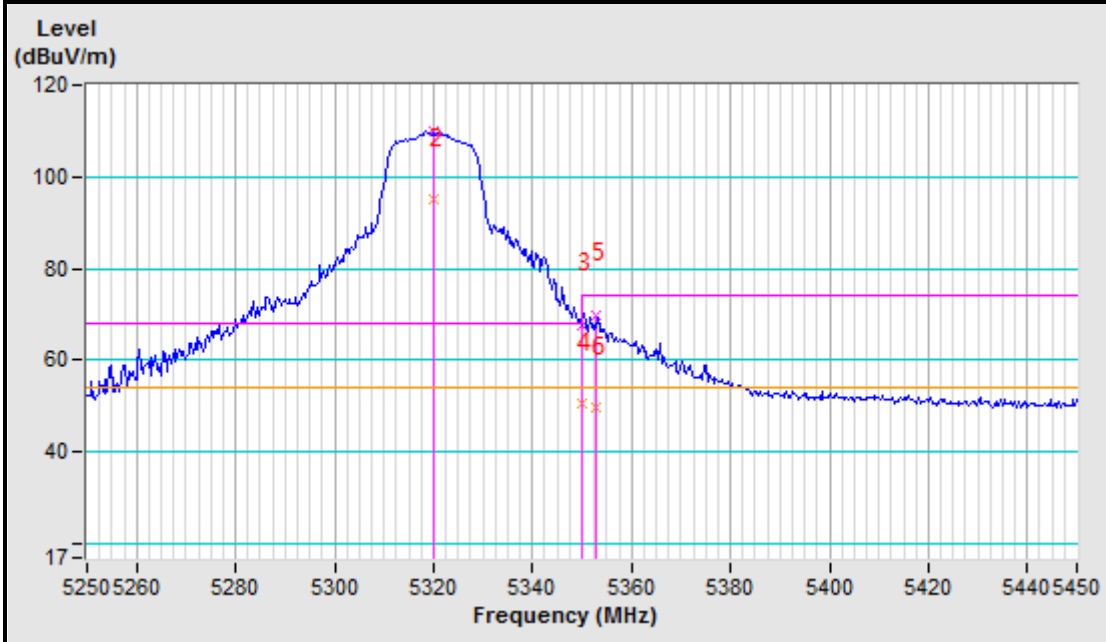


### Band edge Plot

#### 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	106.24 PK			1.00 H	54	97.33	8.91
2	*5270.00	85.33 AV			1.00 H	54	76.42	8.91
3	5350.00	52.16 PK	74.00	-21.84	1.00 H	54	43.18	8.98
4	5350.00	40.20 AV	54.00	-13.80	1.00 H	54	31.22	8.98
5	5358.00	51.90 PK	74.00	-22.10	1.00 H	54	42.91	8.99
6	5358.00	39.90 AV	54.00	-14.10	1.00 H	54	30.91	8.99
7	#10540.00	57.00 PK	68.20	-11.20	1.00 H	0	38.43	18.57
8	15810.00	63.36 PK	74.00	-10.64	1.00 H	0	38.77	24.59
9	15810.00	49.20 AV	54.00	-4.80	1.00 H	0	24.61	24.59

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

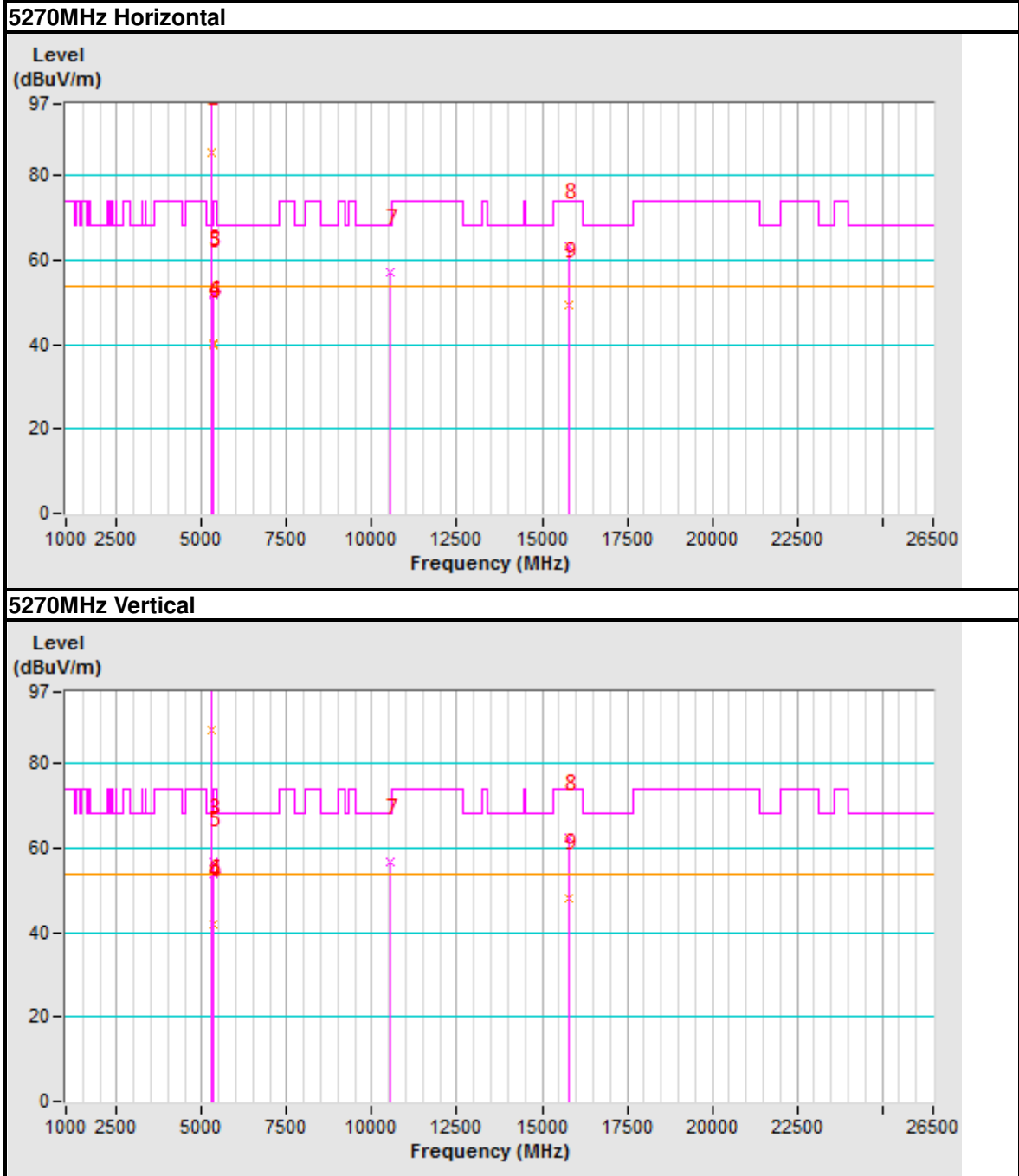
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5270.00	107.10 PK			1.00 V	66	98.19	8.91
2	*5270.00	88.10 AV			1.00 V	66	79.19	8.91
3	5350.00	56.79 PK	74.00	-17.21	1.00 V	66	47.81	8.98
4	5350.00	41.90 AV	54.00	-12.10	1.00 V	66	32.92	8.98
5	5352.00	53.80 PK	74.00	-20.20	1.00 V	66	44.82	8.98
6	5352.00	42.10 AV	54.00	-11.90	1.00 V	66	33.12	8.98
7	#10540.00	56.60 PK	68.20	-11.60	1.00 V	0	38.03	18.57
8	15810.00	62.39 PK	74.00	-11.61	1.00 V	0	37.80	24.59
9	15810.00	48.28 AV	54.00	-5.72	1.00 V	0	23.69	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 less than 20dB margin against the limit.
4. Margin value = Emission level – Limit value.
5. " \* ": Fundamental frequency.



### Test Plot





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

<b>ANTENNA POLARITY &amp; TEST DISTANCE: HORIZONTAL AT 3 M</b>								
NO.	FREQ. (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	92.48 PK			1.00 H	58	83.53	8.95
2	*5310.00	75.20 AV			1.00 H	58	66.25	8.95
3	5350.00	51.24 PK	74.00	-22.76	1.00 H	58	42.26	8.98
4	5350.00	40.13 AV	54.00	-13.87	1.00 H	58	31.15	8.98
5	5355.00	51.09 PK	74.00	-22.91	1.00 H	58	42.10	8.99
6	5355.00	40.00 AV	54.00	-14.00	1.00 H	58	31.01	8.99
7	10620.00	56.21 PK	74.00	-17.79	1.00 H	0	37.45	18.76
8	10620.00	45.20 AV	54.00	-8.80	1.00 H	0	26.44	18.76
9	15930.00	64.30 PK	74.00	-9.70	1.00 H	0	39.49	24.81
10	15930.00	50.00 AV	54.00	-4.00	1.00 H	0	25.19	24.81

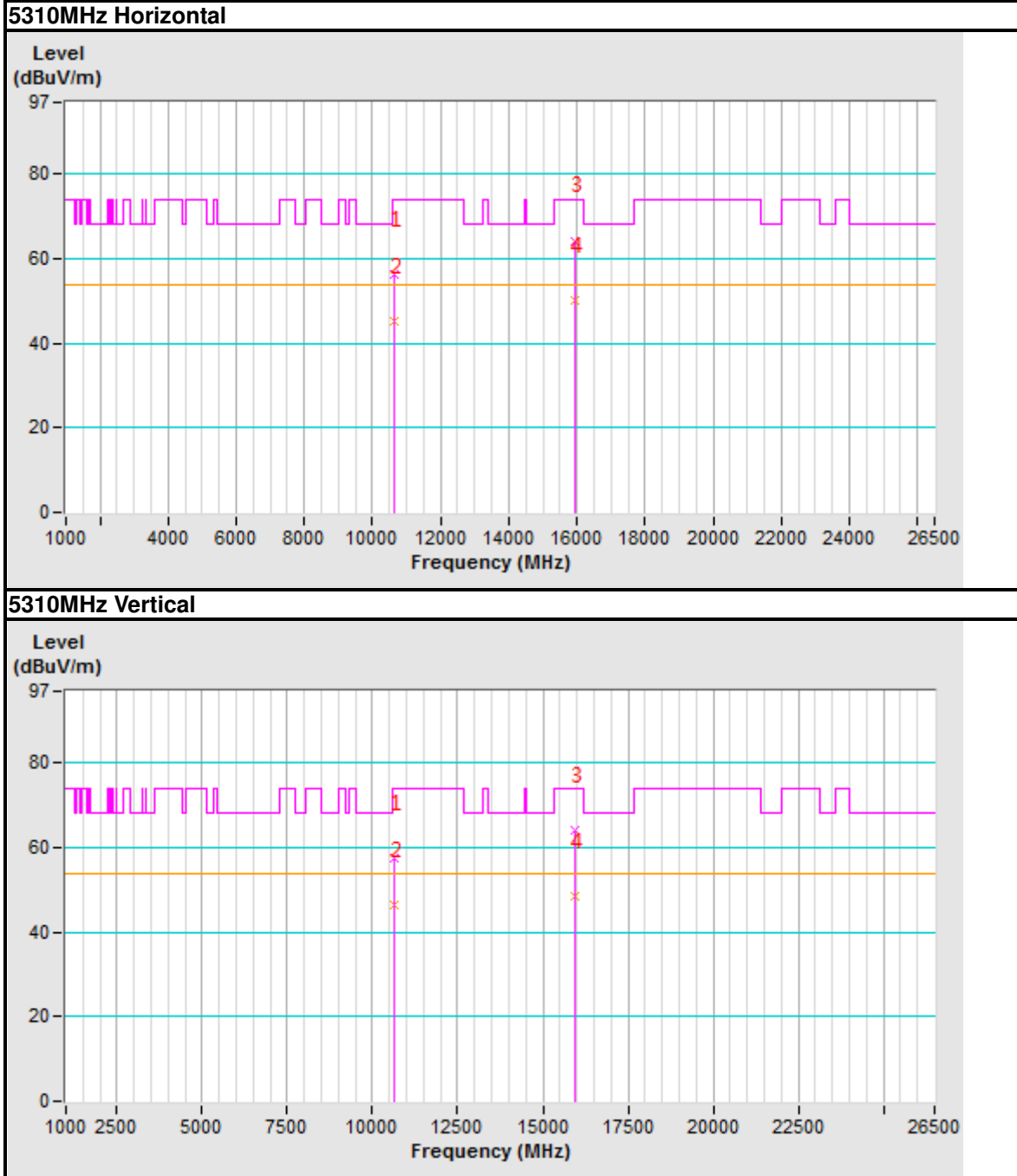
<b>ANTENNA POLARITY &amp; TEST DISTANCE: VERTICAL AT 3 M</b>								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5310.00	98.22 PK			1.00 V	50	89.27	8.95
2	*5310.00	80.29 AV			1.00 V	50	71.34	8.95
3	5350.00	51.29 PK	74.00	-22.71	1.00 V	50	42.31	8.98
4	5350.00	39.90 AV	54.00	-14.10	1.00 V	50	30.92	8.98
5	5352.00	51.06 PK	74.00	-22.94	1.00 V	50	42.08	8.98
6	5352.00	39.70 AV	54.00	-14.30	1.00 V	50	30.72	8.98
7	10620.00	57.60 PK	74.00	-16.40	1.00 V	0	38.84	18.76
8	10620.00	46.32 AV	54.00	-7.68	1.00 V	0	27.56	18.76
9	15930.00	64.12 PK	74.00	-9.88	1.00 V	0	39.31	24.81
10	15930.00	48.39 AV	54.00	-5.61	1.00 V	0	23.58	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 less than 20dB margin against the limit.
4. Margin value = Emission level – Limit value.
5. " \* ": Fundamental frequency.



**Test Plot**

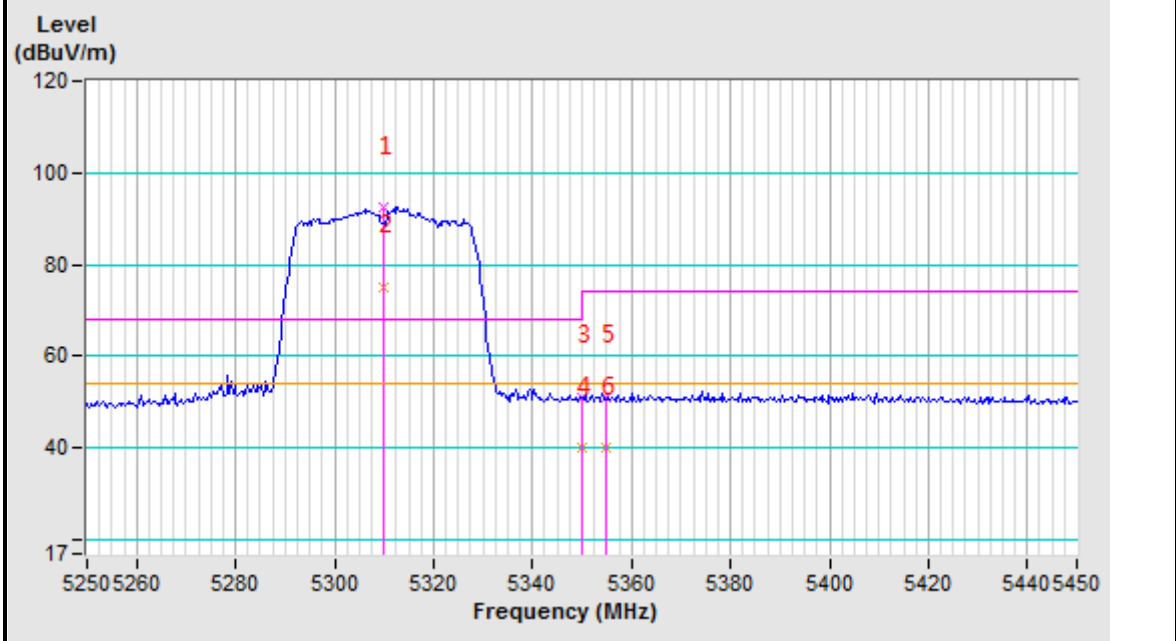




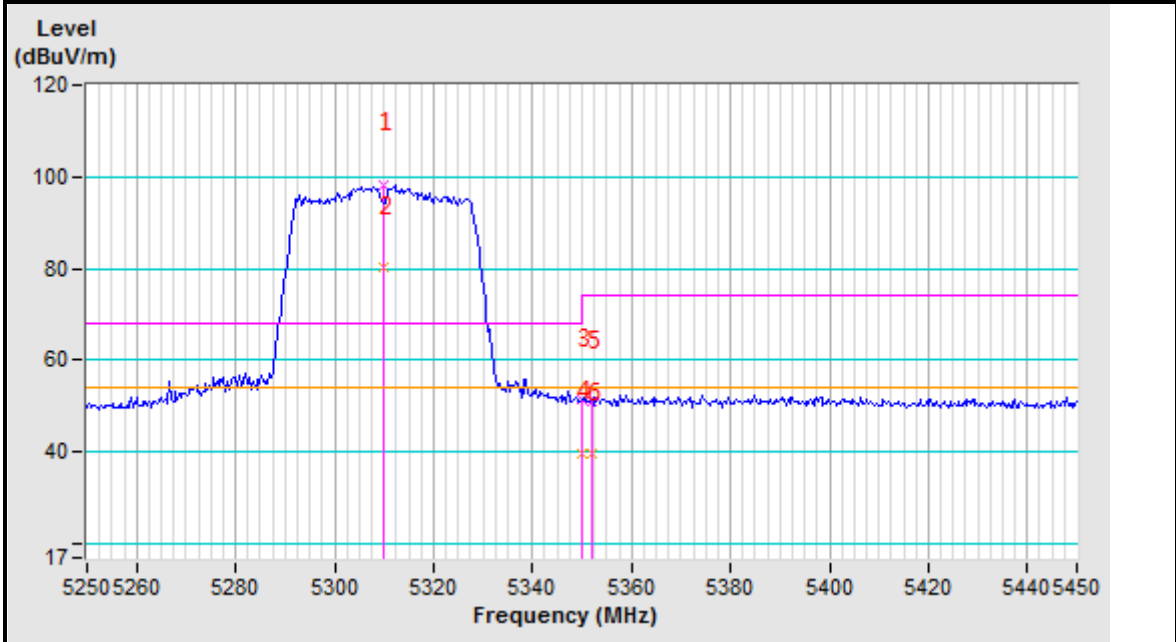


### Band edge Plot

#### 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	88.14 PK			1.00 H	20	79.21	8.93
2	*5290.00	68.90 AV			1.00 H	20	59.97	8.93
3	5350.00	50.43 PK	74.00	-23.57	1.00 H	20	41.45	8.98
4	5350.00	38.40 AV	54.00	-15.60	1.00 H	20	29.42	8.98
5	5351.00	50.49 PK	74.00	-23.51	1.00 H	20	41.51	8.98
6	5351.00	38.00 AV	54.00	-16.00	1.00 H	20	29.02	8.98
7	#10580.00	57.13 PK	68.20	-11.07	1.00 H	0	38.47	18.66
8	15870.00	63.49 PK	74.00	-10.51	1.00 H	0	38.79	24.70
9	15870.00	50.30 AV	54.00	-3.70	1.00 H	0	25.60	24.70

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

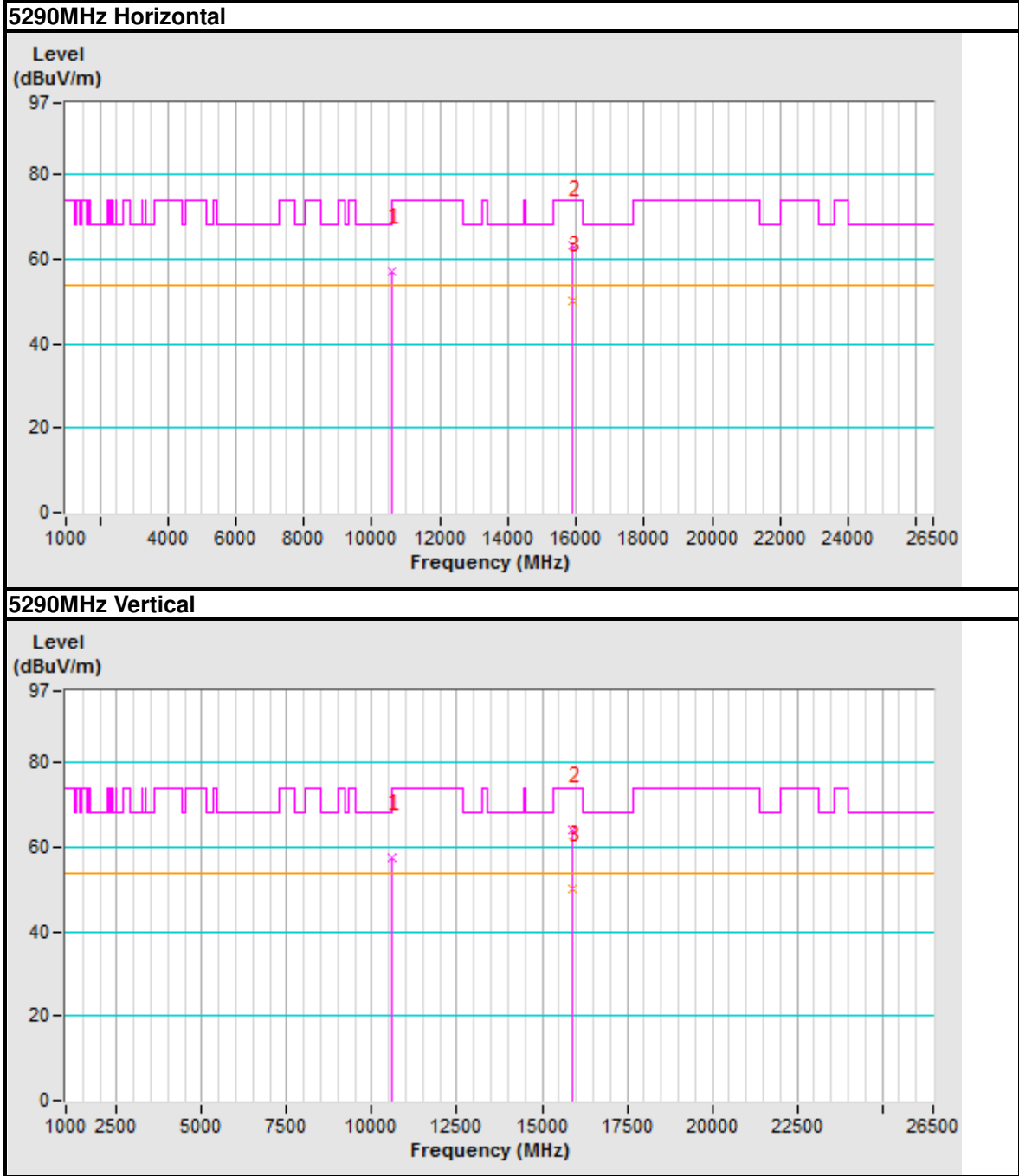
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5290.00	93.10 PK			1.00 V	0	84.17	8.93
2	*5290.00	71.74 AV			1.00 V	0	62.81	8.93
3	5350.00	50.58 PK	74.00	-23.42	1.00 V	0	41.60	8.98
4	5350.00	38.67 AV	54.00	-15.33	1.00 V	0	29.69	8.98
5	5356.00	51.20 PK	74.00	-22.80	1.00 V	0	42.22	8.98
6	5356.00	38.20 AV	54.00	-15.80	1.00 V	0	29.22	8.98
7	#10580.00	57.46 PK	68.20	-10.74	1.00 V	0	38.80	18.66
8	15870.00	64.21 PK	74.00	-9.79	1.00 V	0	39.51	24.70
9	15870.00	50.28 AV	54.00	-3.72	1.00 V	0	25.58	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 less than 20dB margin against the limit.
4. Margin value = Emission level – Limit value.
5. " \* ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

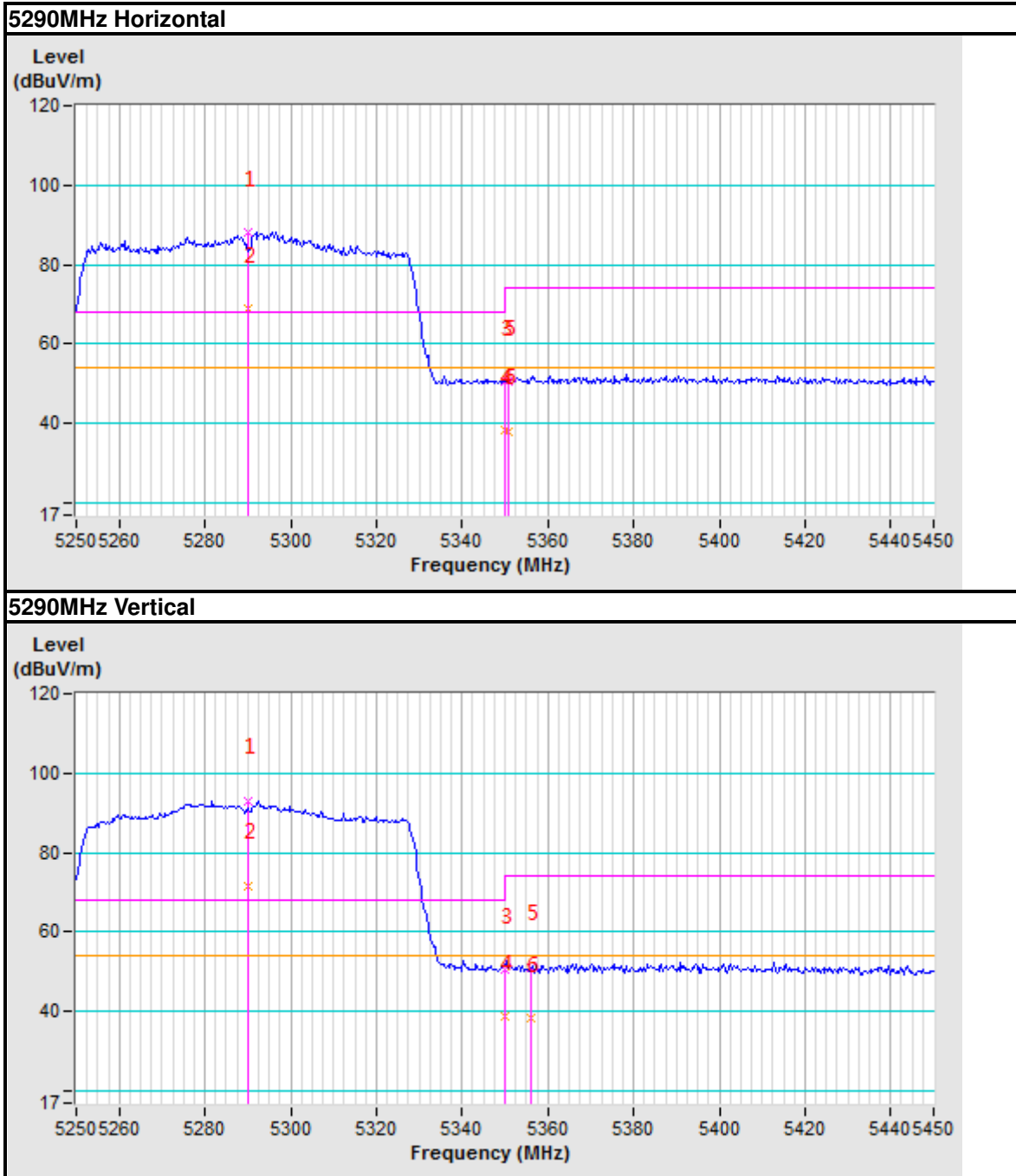


**Test Plot**





### Band edge Plot





**Band 3 (5470-5725MHz):**

**ABOVE 1GHz DATA**

**802.11a**

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

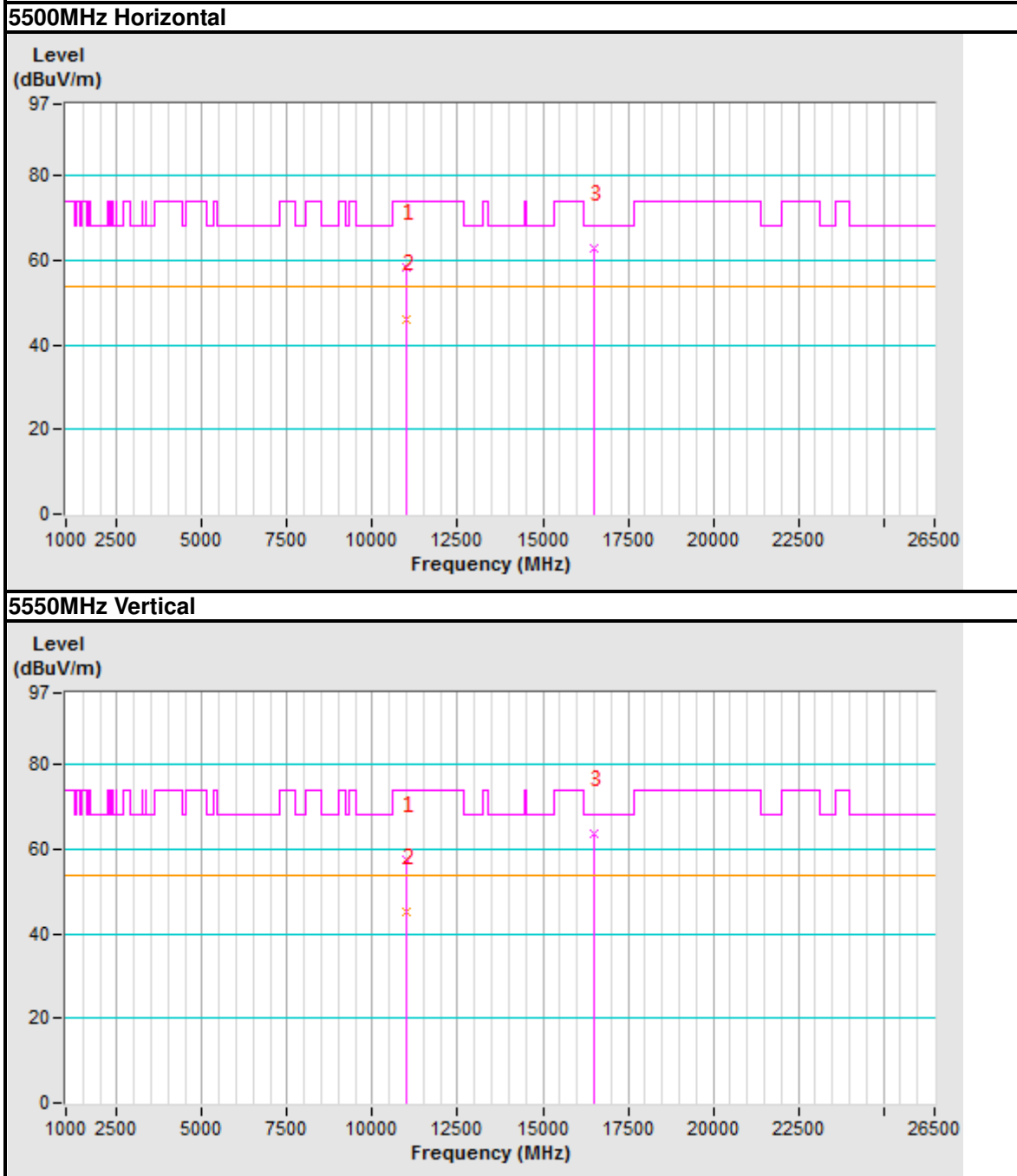
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5466.65	51.58 PK	68.20	-16.62	1.64 H	0	42.49	9.09
2	#5470.00	51.61 PK	68.20	-16.59	1.64 H	0	42.52	9.09
3	*5500.00	99.76 PK			1.64 H	0	90.64	9.12
4	*5500.00	85.10 AV			1.64 H	0	75.98	9.12
5	11000.00	58.34 PK	74.00	-15.66	1.00 H	0	38.66	19.68
6	11000.00	46.20 AV	54.00	-7.80	1.00 H	0	26.52	19.68
7	#16500.00	62.93 PK	68.20	-5.27	1.00 H	0	37.50	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	5457.82	50.92 PK	74.00	-23.08	1.00 V	0	41.84	9.08
2	#5470.00	50.68 PK	68.20	-17.52	1.00 V	0	41.59	9.09
3	*5500.00	87.45 PK			1.00 V	0	78.33	9.12
4	*5500.00	73.60 AV			1.00 V	0	64.48	9.12
5	11000.00	57.64 PK	74.00	-16.36	1.00 V	0	37.96	19.68
6	11000.00	45.30 AV	54.00	-8.70	1.00 V	0	25.62	19.68
7	#16500.00	63.59 PK	68.20	-4.61	1.00 V	0	38.16	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 less than 20dB margin against the limit.
4. Margin value = Emission level – Limit value.
5. " \* ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

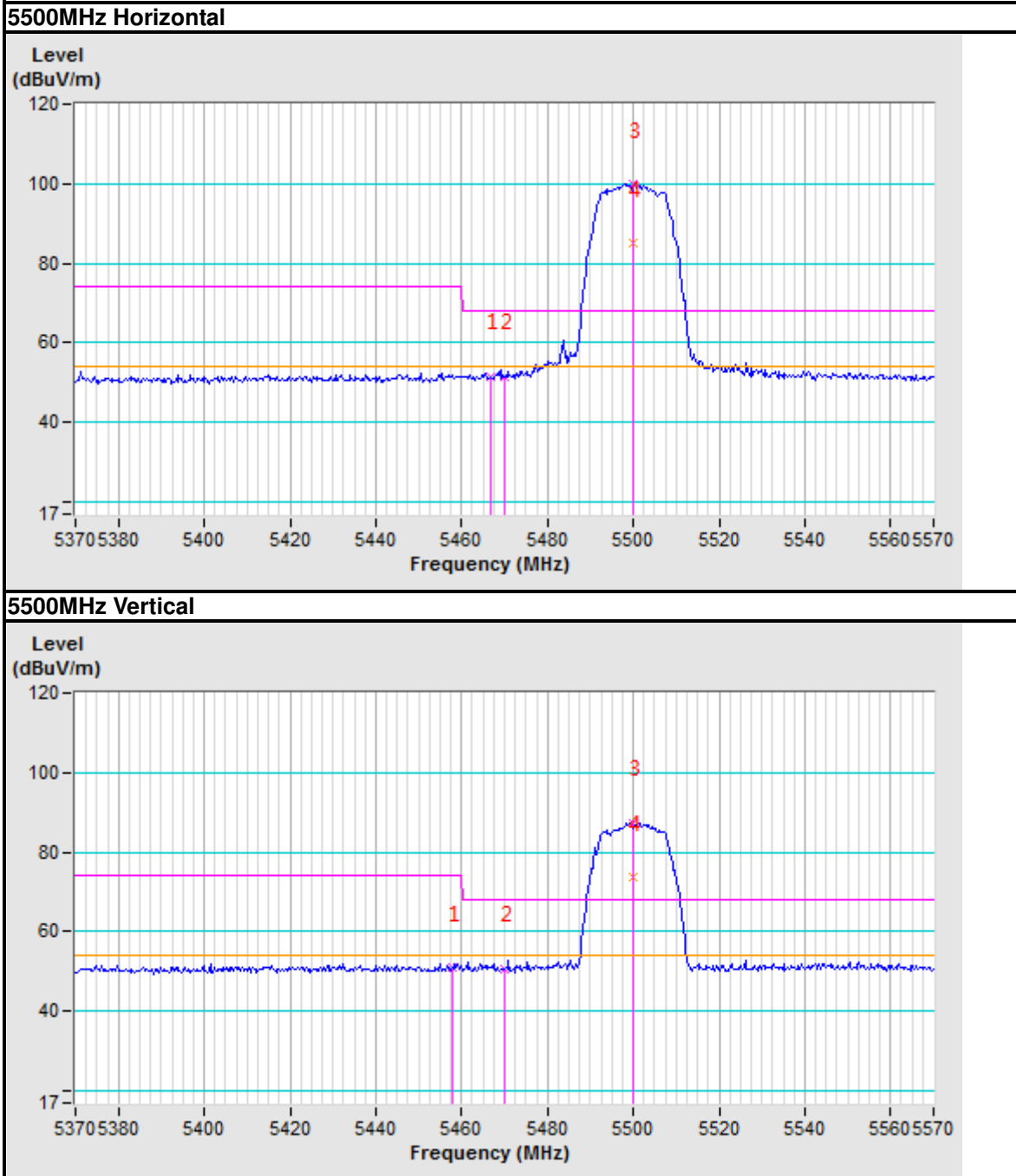


### Test Plot





### Band edge Plot





<b>CHANNEL</b>	TX Channel 112	<b>DETECTOR FUNCTION</b>	Peak (PK)
<b>FREQUENCY RANGE</b>	1GHz ~ 40GHz		Average (AV)

<b>ANTENNA POLARITY &amp; TEST DISTANCE: HORIZONTAL AT 3 M</b>								
NO.	FREQ. (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	51.41 PK	68.20	-16.79	1.00 H	20	42.32	9.09
2	*5580.00	105.00 PK			1.00 H	20	95.58	9.42
3	*5580.00	91.32 AV			1.00 H	20	81.90	9.42
4	11160.00	58.24 PK	74.00	-15.76	1.00 H	0	38.29	19.95
5	11160.00	46.12 AV	54.00	-7.88	1.00 H	0	26.17	19.95
6	#16740.00	63.17 PK	68.20	-5.03	1.00 H	0	36.97	26.20
<b>ANTENNA POLARITY &amp; TEST DISTANCE: VERTICAL AT 3 M</b>								
NO.	FREQ. (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	51.16 PK	68.20	-17.04	1.00 V	54	42.07	9.09
2	*5580.00	95.14 PK			1.00 V	54	85.72	9.42
3	*5580.00	81.60 AV			1.00 V	54	72.18	9.42
4	11160.00	57.46 PK	74.00	-16.54	1.00 V	0	37.51	19.95
5	11160.00	45.28 AV	54.00	-8.72	1.00 V	0	25.33	19.95
6	#16740.00	62.91 PK	68.20	-5.29	1.00 V	0	36.71	26.20

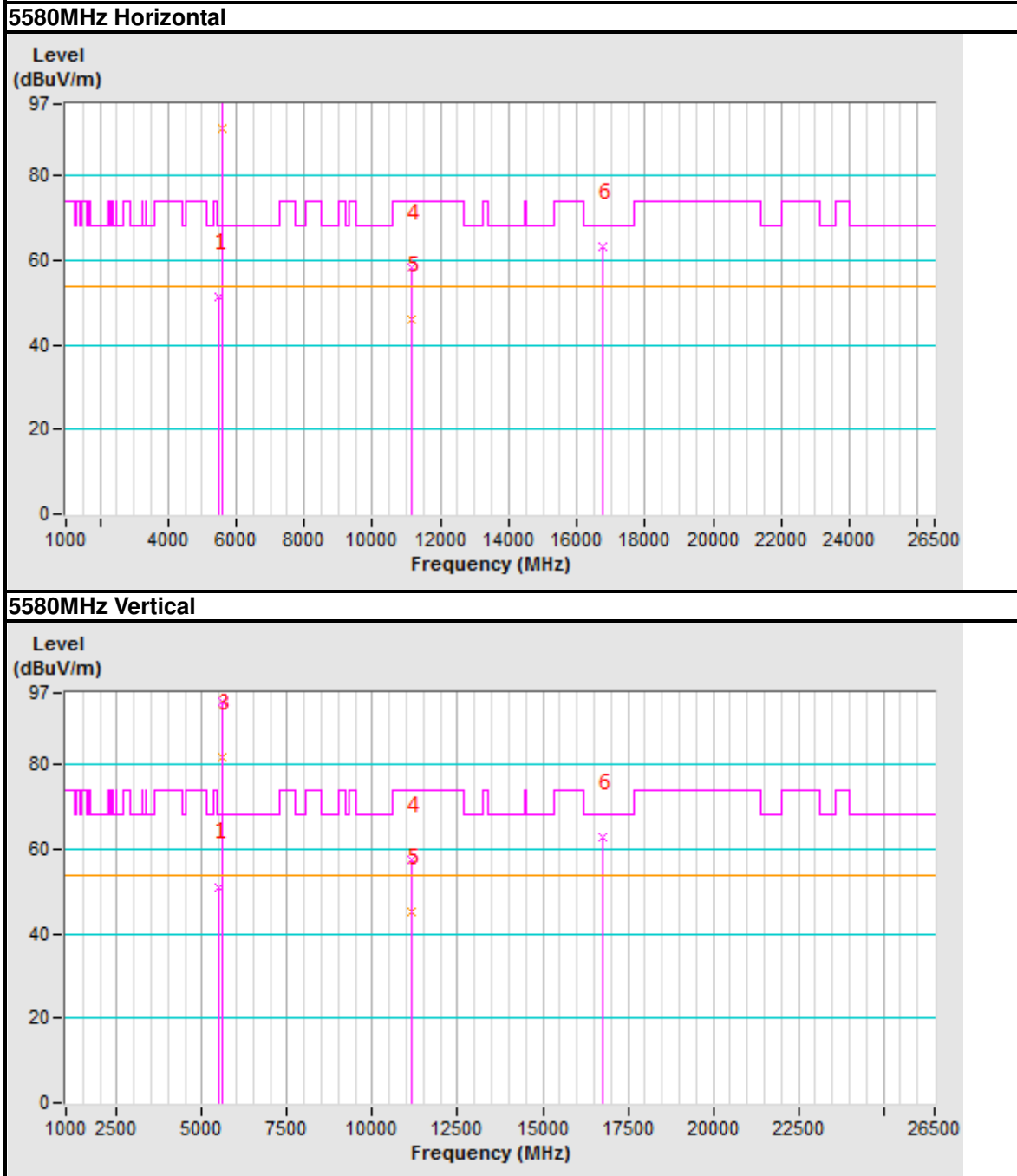
**REMARKS:**

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 less than 20dB margin against the limit.
4. Margin value = Emission level – Limit value.
5. " \* ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.





### Test Plot





<b>CHANNEL</b>	TX Channel 140	<b>DETECTOR FUNCTION</b>	Peak (PK)
<b>FREQUENCY RANGE</b>	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	103.49 PK			1.88 H	0	93.62	9.87
2	*5700.00	89.80 AV			1.88 H	0	79.93	9.87
3	#5725.00	63.03 PK	68.20	-5.17	1.88 H	0	53.07	9.96
4	#5732.05	63.03 PK	68.20	-5.17	1.88 H	0	53.05	9.98
5	11400.00	58.47 PK	74.00	-15.53	1.00 H	0	38.12	20.35
6	11400.00	47.00 AV	54.00	-7.00	1.00 H	0	26.65	20.35
7	#17100.00	63.92 PK	68.20	-4.28	1.00 H	0	36.78	27.14

**ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M**

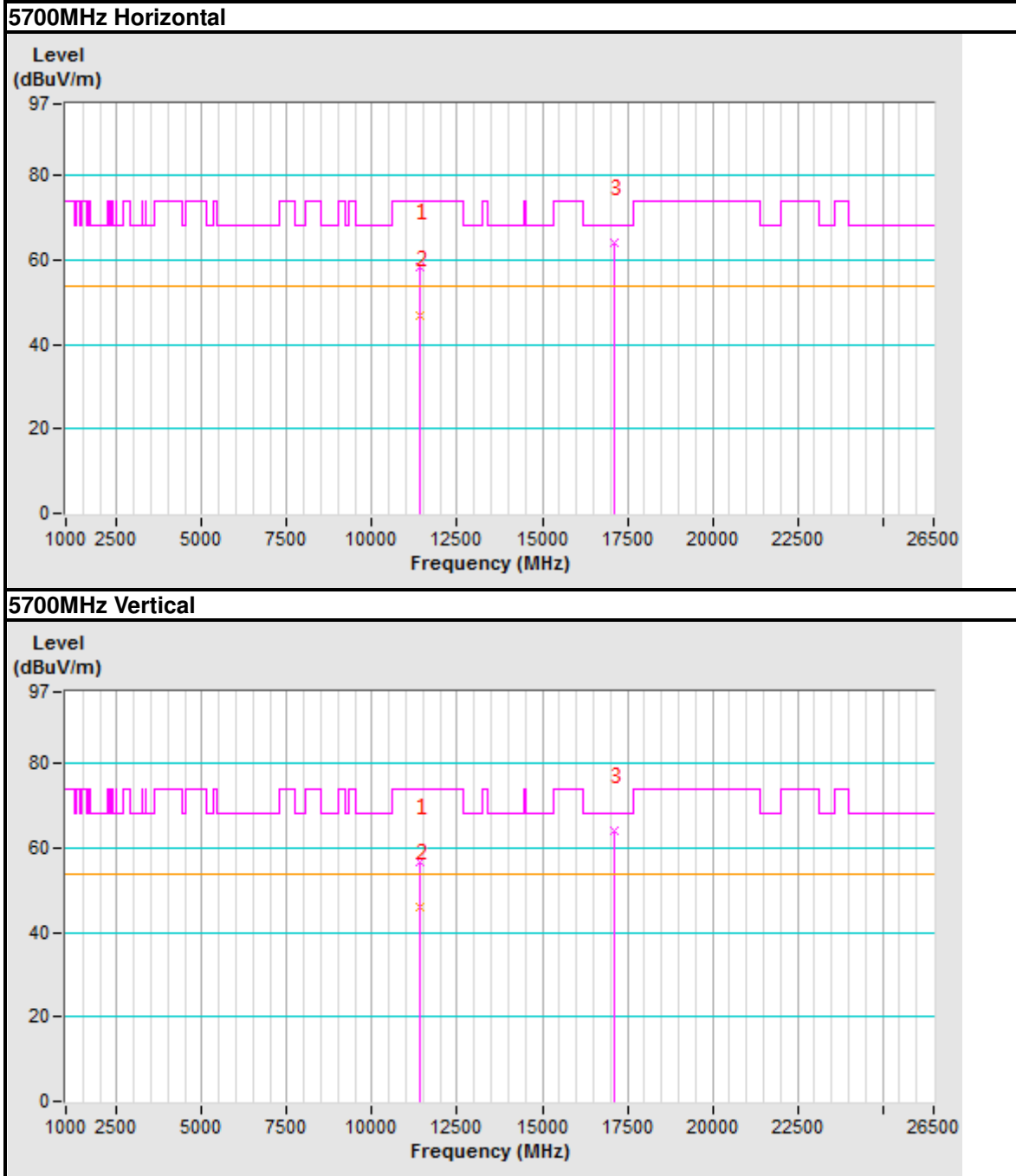
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5700.00	94.03 PK			1.00 V	0	84.16	9.87
2	*5700.00	80.60 AV			1.00 V	0	70.73	9.87
3	#5725.00	57.01 PK	68.20	-11.19	1.00 V	0	47.05	9.96
4	#5731.41	53.42 PK	68.20	-14.78	1.00 V	0	43.44	9.98
5	11400.00	56.64 PK	74.00	-17.36	1.00 V	0	36.29	20.35
6	11400.00	46.10 AV	54.00	-7.90	1.00 V	0	25.75	20.35
7	#17100.00	64.05 PK	68.20	-4.15	1.00 V	0	36.91	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 less than 20dB margin against the limit.
4. Margin value = Emission level – Limit value.
5. " \* ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.



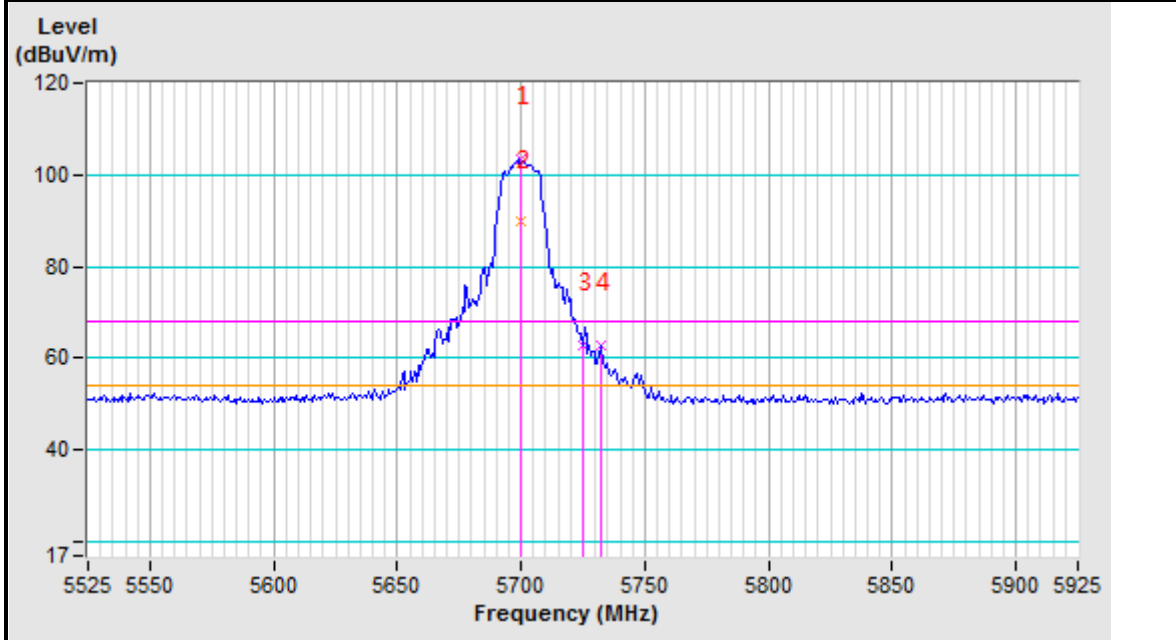
### Test Plot



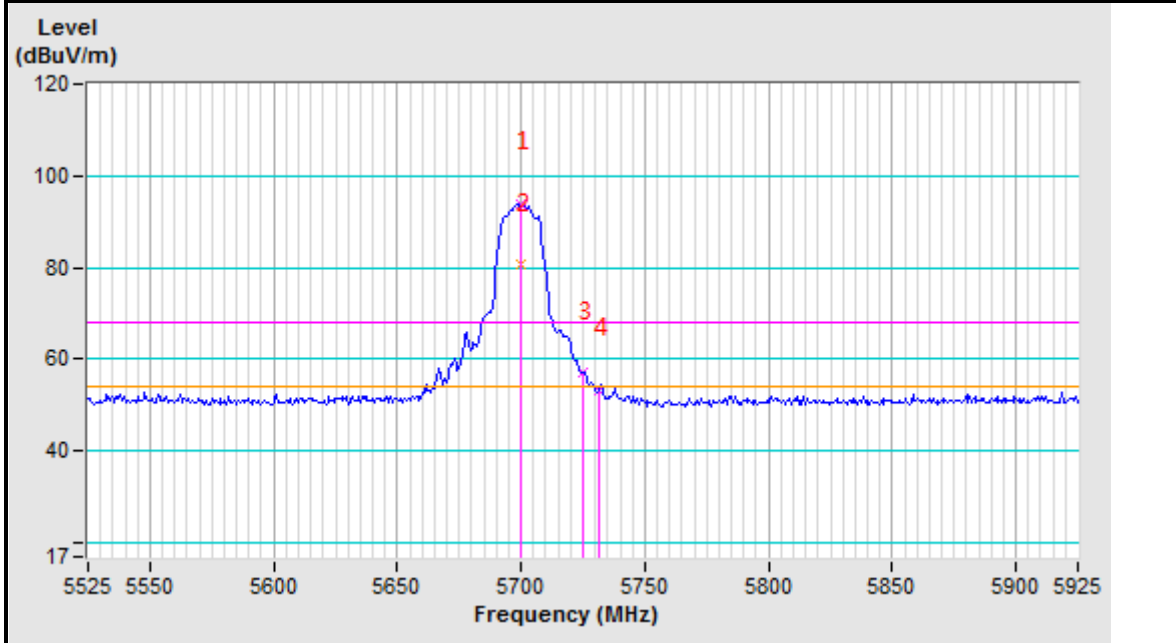


Band edge Plot

5700MHz Horizontal



5700MHz Vertical





802.11n (20MHz)

<b>CHANNEL</b>	TX Channel 100	<b>DETECTOR FUNCTION</b>	Peak (PK)
<b>FREQUENCY RANGE</b>	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	5455.90	50.13 PK	74.00	-23.87	1.00 H	160	41.05	9.08
2	#5470.00	50.93 PK	68.20	-17.27	1.00 H	160	41.84	9.09
3	*5500.00	99.70 PK			1.00 H	160	90.58	9.12
4	*5500.00	85.78 AV			1.00 H	160	76.66	9.12
5	11000.00	56.02 PK	74.00	-17.98	1.00 H	0	36.34	19.68
6	11000.00	45.00 AV	54.00	-9.00	1.00 H	0	25.32	19.68
7	#16500.00	63.37 PK	68.20	-4.83	1.00 H	0	37.94	25.43

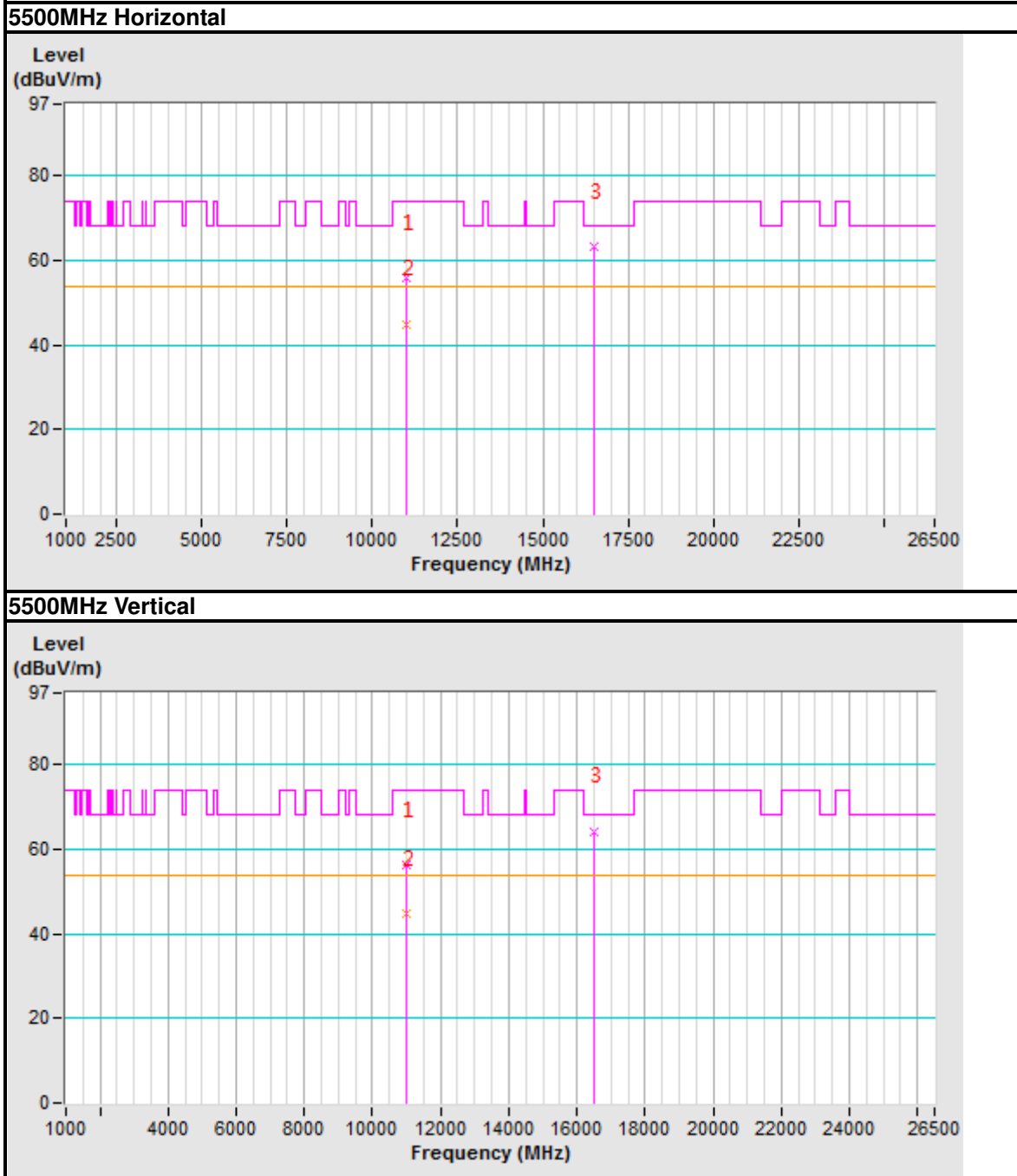
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5453.01	50.65 PK	74.00	-23.35	1.02 V	0	41.57	9.08
2	#5470.00	51.01 PK	68.20	-17.19	1.02 V	0	41.92	9.09
3	*5500.00	88.50 PK			1.02 V	0	79.38	9.12
4	*5500.00	74.92 AV			1.02 V	0	65.80	9.12
5	11000.00	56.22 PK	74.00	-17.78	1.00 V	0	36.54	19.68
6	11000.00	44.80 AV	54.00	-9.20	1.00 V	0	25.12	19.68
7	#16500.00	64.32 PK	68.20	-3.88	1.00 V	0	38.89	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 less than 20dB margin against the limit.
4. Margin value = Emission level – Limit value.
5. " \* ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

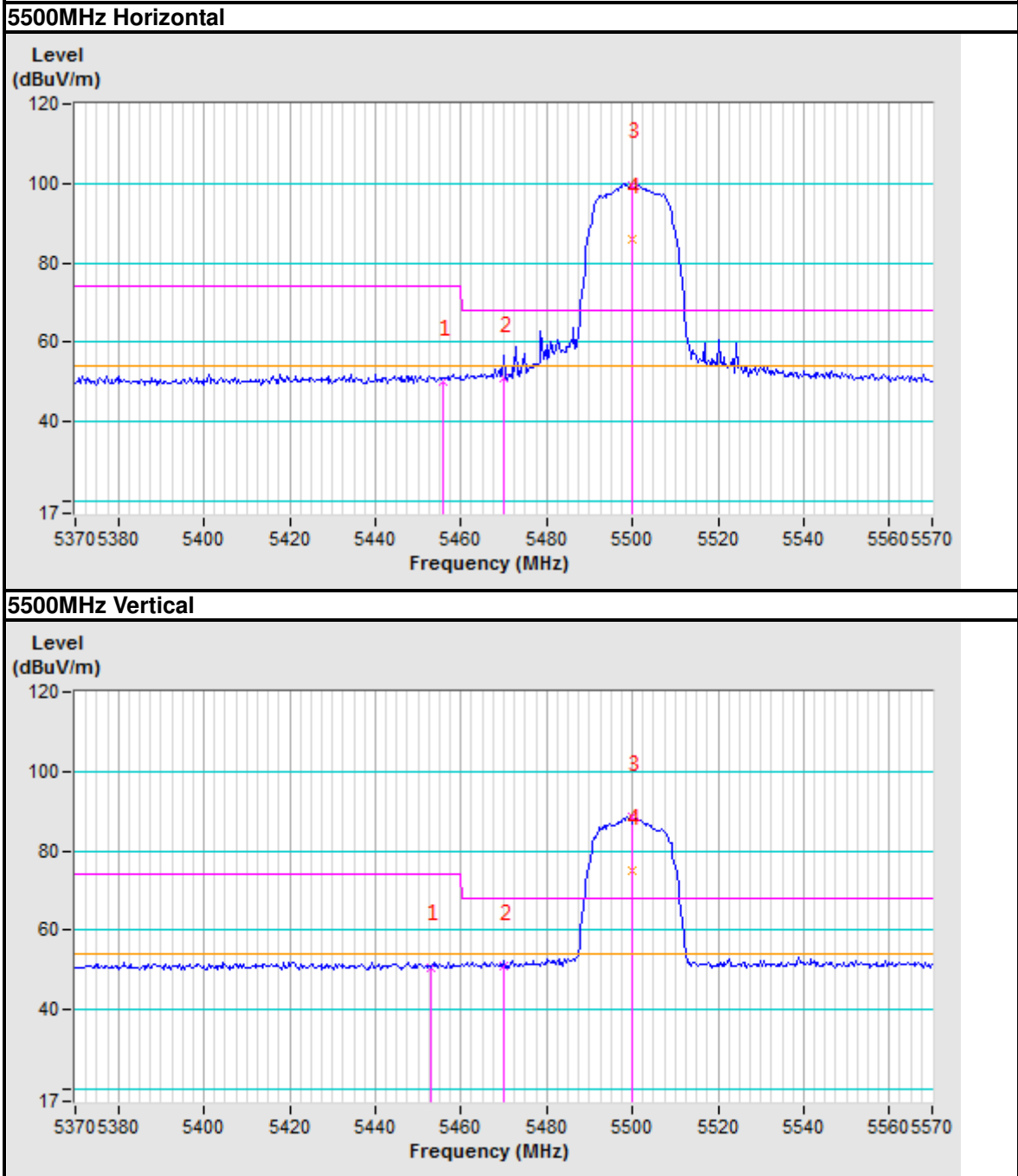


### Test Plot





### Band edge Plot





<b>CHANNEL</b>	TX Channel 112	<b>DETECTOR FUNCTION</b>	Peak (PK)
<b>FREQUENCY RANGE</b>	1GHz ~ 40GHz		Average (AV)

<b>ANTENNA POLARITY &amp; TEST DISTANCE: HORIZONTAL AT 3 M</b>								
<b>NO.</b>	<b>FREQ. (MHz)</b>	<b>EMISSION LEVEL (dBuV/m)</b>	<b>LIMIT (dBuV/m)</b>	<b>MARGIN (dB)</b>	<b>ANTENNA HEIGHT (m)</b>	<b>TABLE ANGLE (Degree)</b>	<b>RAW VALUE (dBuV)</b>	<b>CORRECTION FACTOR (dB/m)</b>
1	#5470.00	52.00 PK	68.20	-16.20	1.00 H	30	42.91	9.09
2	*5580.00	106.60 PK			1.00 H	30	97.18	9.42
3	*5580.00	92.20 AV			1.00 H	30	82.78	9.42
4	11160.00	57.64 PK	74.00	-16.36	1.00 H	0	37.69	19.95
5	11160.00	46.60 AV	54.00	-7.40	1.00 H	0	26.65	19.95
6	#16740.00	63.99 PK	68.20	-4.21	1.00 H	0	37.79	26.20
<b>ANTENNA POLARITY &amp; TEST DISTANCE: VERTICAL AT 3 M</b>								
<b>NO.</b>	<b>FREQ. (MHz)</b>	<b>EMISSION LEVEL (dBuV/m)</b>	<b>LIMIT (dBuV/m)</b>	<b>MARGIN (dB)</b>	<b>ANTENNA HEIGHT (m)</b>	<b>TABLE ANGLE (Degree)</b>	<b>RAW VALUE (dBuV)</b>	<b>CORRECTION FACTOR (dB/m)</b>
1	#5470.00	51.30 PK	68.20	-16.90	1.00 V	0	42.21	9.09
2	*5580.00	96.12 PK			1.00 V	0	86.70	9.42
3	*5580.00	83.60 AV			1.00 V	0	74.18	9.42
4	11160.00	56.22 PK	74.00	-17.78	1.00 V	0	36.27	19.95
5	11160.00	45.88 AV	54.00	-8.12	1.00 V	0	25.93	19.95
6	#16740.00	64.11 PK	68.20	-4.09	1.00 V	0	37.91	26.20

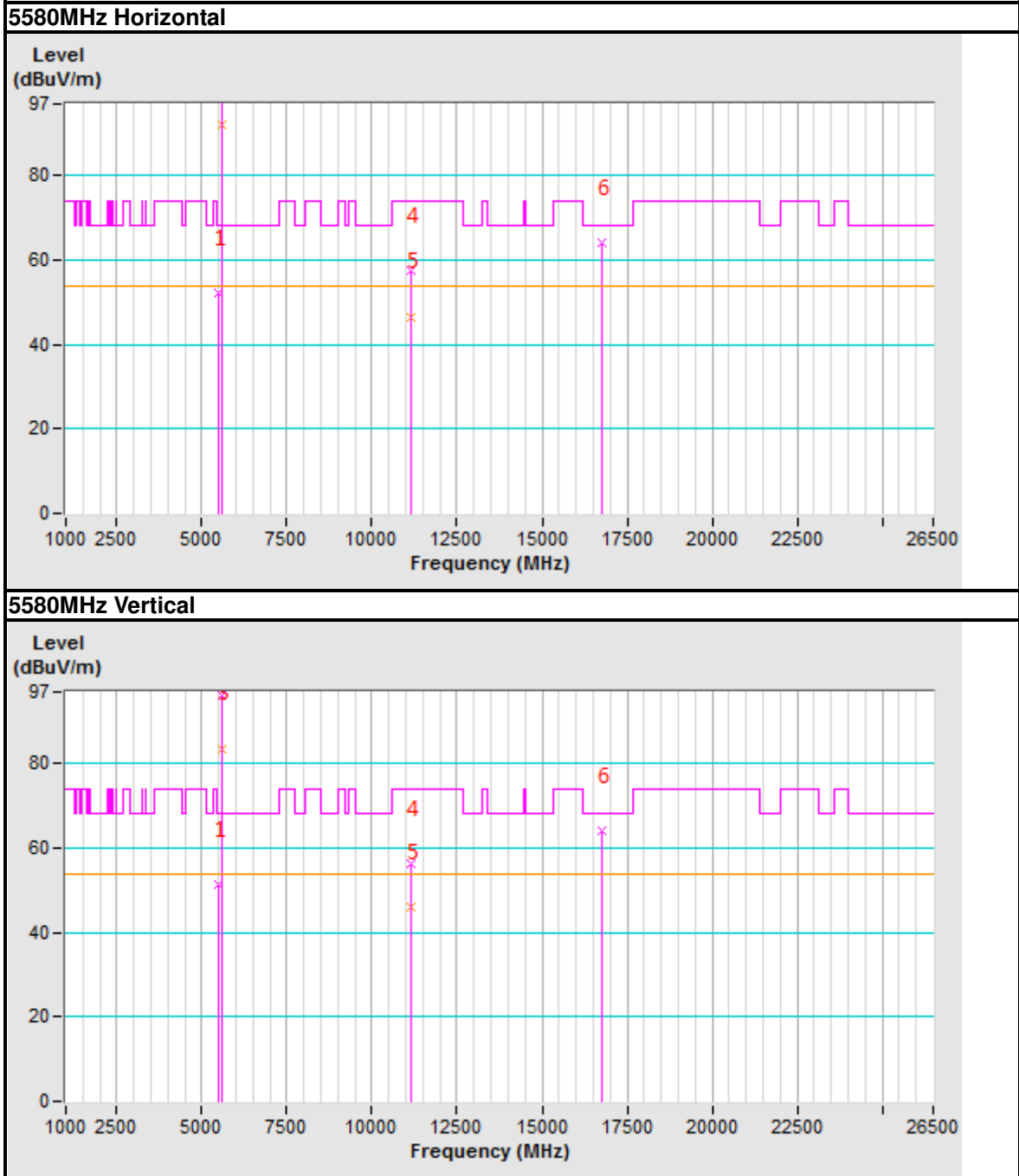
**REMARKS:**

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 less than 20dB margin against the limit.
4. Margin value = Emission level – Limit value.
5. " \* ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.





### Test Plot





<b>CHANNEL</b>	TX Channel 140	<b>DETECTOR FUNCTION</b>	Peak (PK)
<b>FREQUENCY RANGE</b>	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	97.44 PK			1.88 H	0	87.57	9.87
2	*5700.00	84.60 AV			1.88 H	0	74.73	9.87
3	#5725.00	51.98 PK	68.20	-16.22	1.88 H	0	42.02	9.96
4	#5761.54	50.81 PK	68.20	-17.39	1.88 H	0	40.72	10.09
5	11400.00	57.18 PK	74.00	-16.82	1.00 H	0	36.83	20.35
6	11400.00	45.50 AV	54.00	-8.50	1.00 H	0	25.15	20.35
7	#17100.00	63.19 PK	68.20	-5.01	1.00 H	0	36.05	27.14

**ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M**

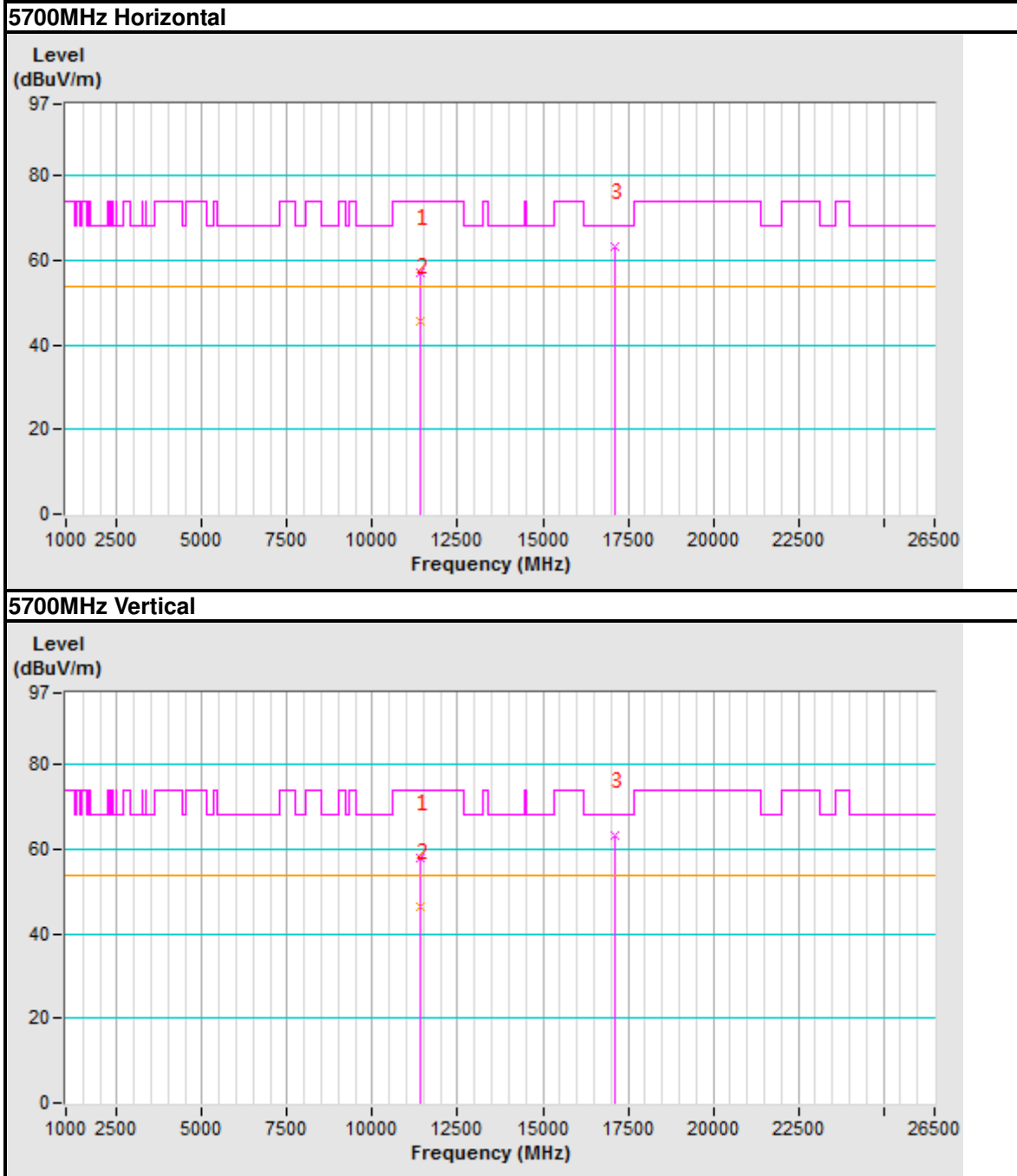
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5700.00	88.93 PK			1.02 V	0	79.06	9.87
2	*5700.00	85.40 AV			1.02 V	0	75.53	9.87
3	#5725.00	50.73 PK	68.20	-17.47	1.02 V	0	40.77	9.96
4	#5751.28	51.68 PK	68.20	-16.52	1.02 V	0	41.62	10.06
5	11400.00	57.77 PK	74.00	-16.23	1.00 V	0	37.42	20.35
6	11400.00	46.39 AV	54.00	-7.61	1.00 V	0	26.04	20.35
7	#17100.00	63.33 PK	68.20	-4.87	1.00 V	0	36.19	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 less than 20dB margin against the limit.
4. Margin value = Emission level – Limit value.
5. " \* ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.



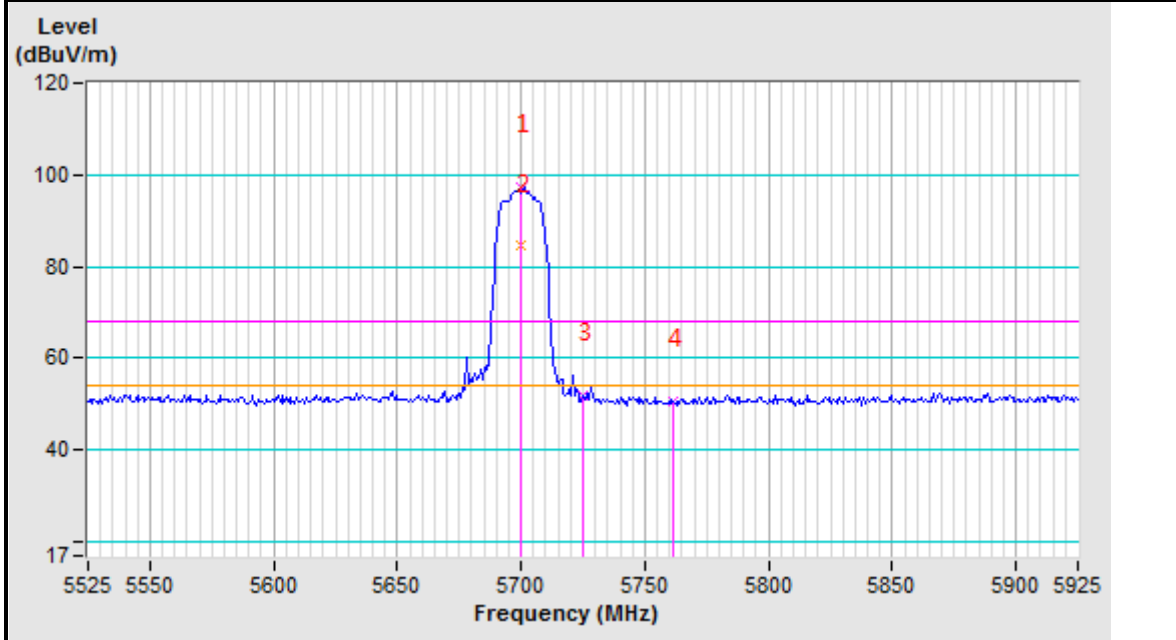
### Test Plot



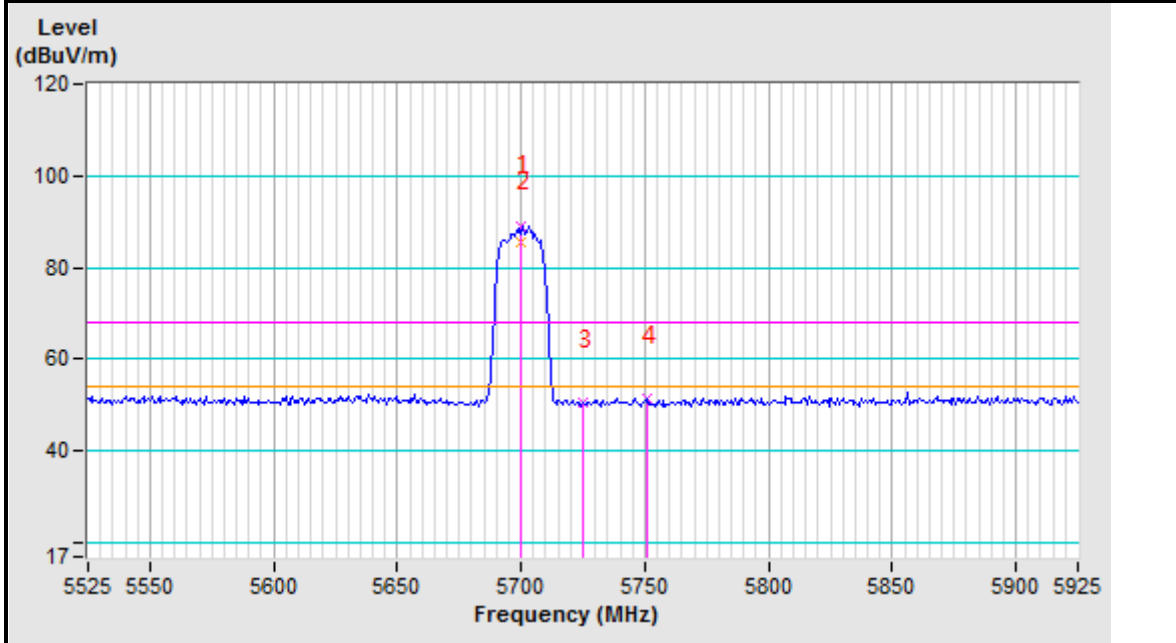


### Band edge Plot

#### 5700MHz Horizontal



#### 5700MHz Vertical





802.11n (40MHz)

<b>CHANNEL</b>	TX Channel 102	<b>DETECTOR FUNCTION</b>	Peak (PK)
<b>FREQUENCY RANGE</b>	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	5442.76	50.80 PK	74.00	-23.20	1.00 H	0	41.73	9.07
2	#5470.00	52.69 PK	68.20	-15.51	1.00 H	0	43.60	9.09
3	*5510.00	96.27 PK			1.00 H	0	87.11	9.16
4	*5510.00	80.10 AV			1.00 H	0	70.94	9.16
5	11020.00	57.11 PK	74.00	-16.89	1.00 H	0	37.40	19.71
6	11020.00	46.20 AV	54.00	-7.80	1.00 H	0	26.49	19.71
7	#16530.00	64.02 PK	68.20	-4.18	1.00 H	0	38.49	25.53

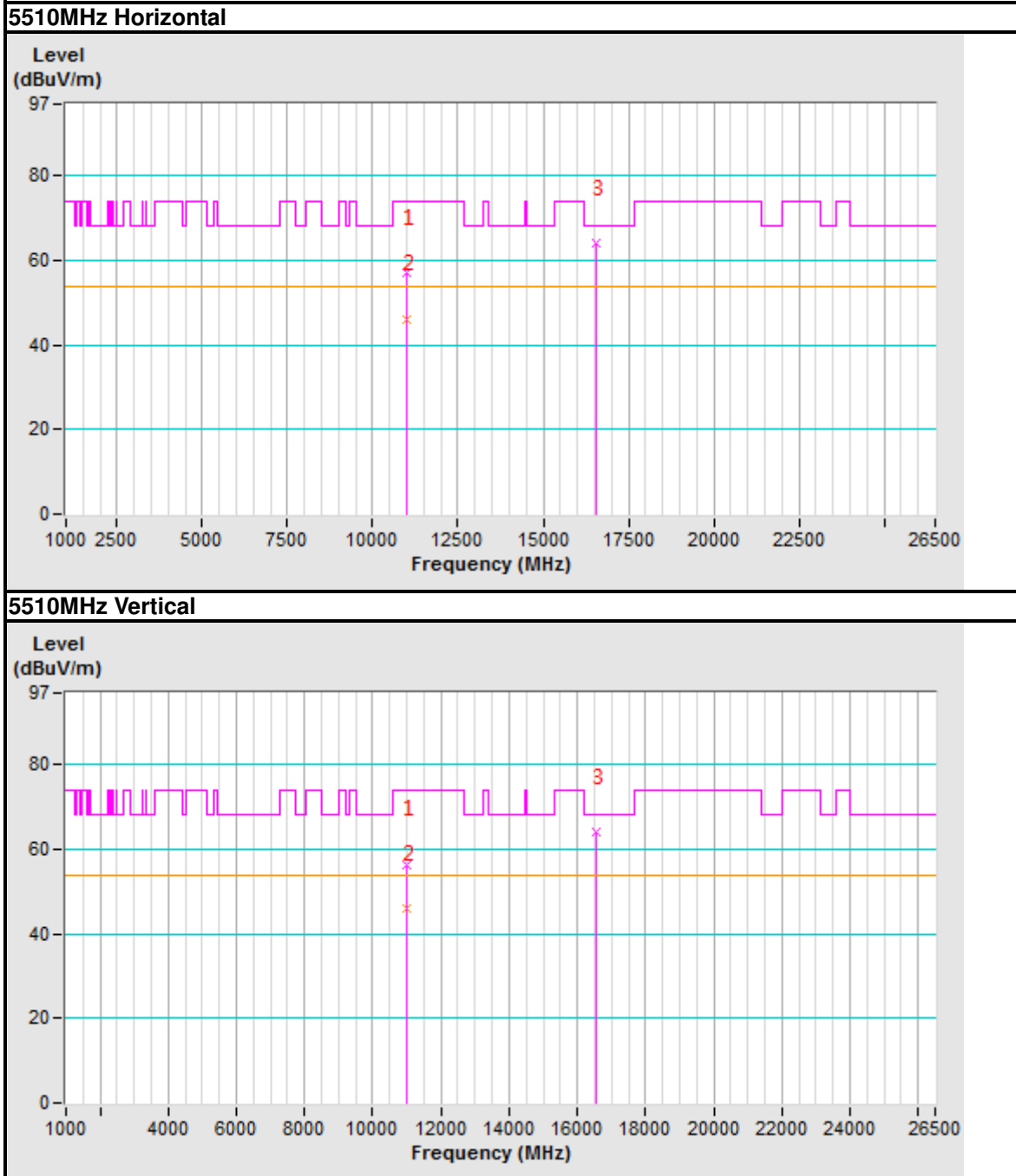
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5447.56	51.50 PK	74.00	-22.50	1.00 V	0	42.43	9.07
2	#5470.00	51.01 PK	68.20	-17.19	1.00 V	0	41.92	9.09
3	*5510.00	85.26 PK			1.00 V	0	76.10	9.16
4	*5510.00	80.90 AV			1.00 V	0	71.74	9.16
5	11020.00	56.47 PK	74.00	-17.53	1.00 V	0	36.76	19.71
6	11020.00	45.90 AV	54.00	-8.10	1.00 V	0	26.19	19.71
7	#16530.00	63.98 PK	68.20	-4.22	1.00 V	0	38.45	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 less than 20dB margin against the limit.
4. Margin value = Emission level – Limit value.
5. " \* ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

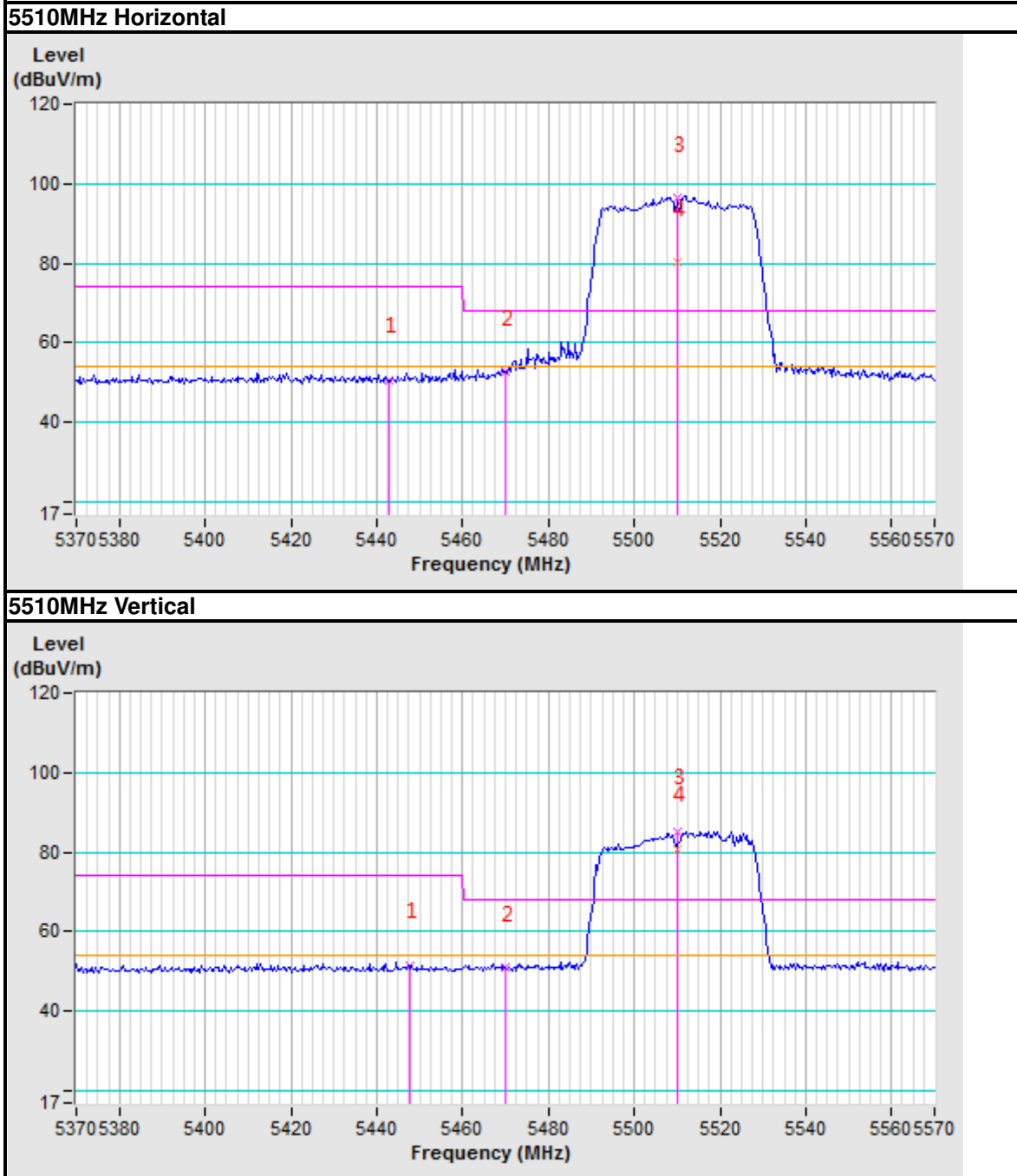


### Test Plot





### Band edge Plot





<b>CHANNEL</b>	TX Channel 110	<b>DETECTOR FUNCTION</b>	Peak (PK)
<b>FREQUENCY RANGE</b>	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	54.17 PK	68.20	-14.03	1.00 H	20	45.08	9.09
2	*5550.00	104.57 PK			1.00 H	20	95.26	9.31
3	*5550.00	91.80 AV			1.00 H	20	82.49	9.31
4	11100.00	57.06 PK	74.00	-16.94	1.00 H	0	37.22	19.84
5	11100.00	45.70 AV	54.00	-8.30	1.00 H	0	25.86	19.84
6	#16650.00	63.55 PK	68.20	-4.65	1.00 H	0	37.64	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	51.08 PK	68.20	-17.12	1.00 V	54	41.99	9.09
2	*5550.00	93.25 PK			1.00 V	54	83.94	9.31
3	*5550.00	77.60 AV			1.00 V	54	68.29	9.31
4	11100.00	56.24 PK	74.00	-17.76	1.00 V	0	36.40	19.84
5	11100.00	44.90 AV	54.00	-9.10	1.00 V	0	25.06	19.84
6	#16650.00	62.98 PK	68.20	-5.22	1.00 V	0	37.07	25.91

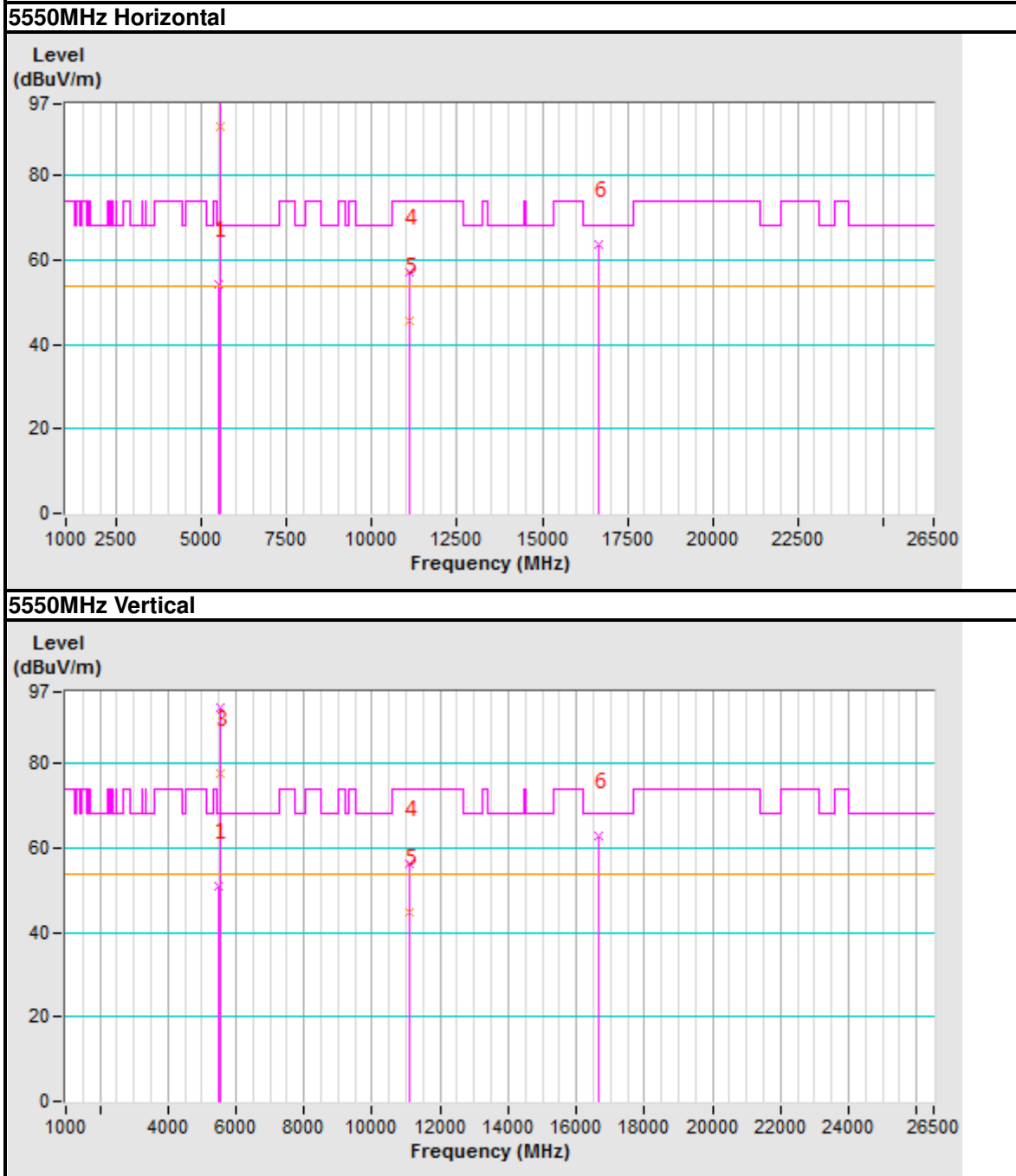
**REMARKS:**

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 less than 20dB margin against the limit.
4. Margin value = Emission level – Limit value.
5. " \* ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.





Test Plot





<b>CHANNEL</b>	TX Channel 134	<b>DETECTOR FUNCTION</b>	Peak (PK)
<b>FREQUENCY RANGE</b>	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	101.07 PK			1.65 H	0	91.32	9.75
2	*5670.00	88.60 AV			1.65 H	0	78.85	9.75
3	#5725.00	56.39 PK	68.20	-11.81	1.65 H	0	46.43	9.96
4	#5746.15	52.51 PK	68.20	-15.69	1.65 H	0	42.47	10.04
5	11340.00	56.24 PK	74.00	-17.76	1.00 H	0	36.00	20.24
6	11340.00	45.12 AV	54.00	-8.88	1.00 H	0	24.88	20.24
7	#17010.00	63.33 PK	68.20	-4.87	1.00 H	0	36.30	27.03

**ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M**

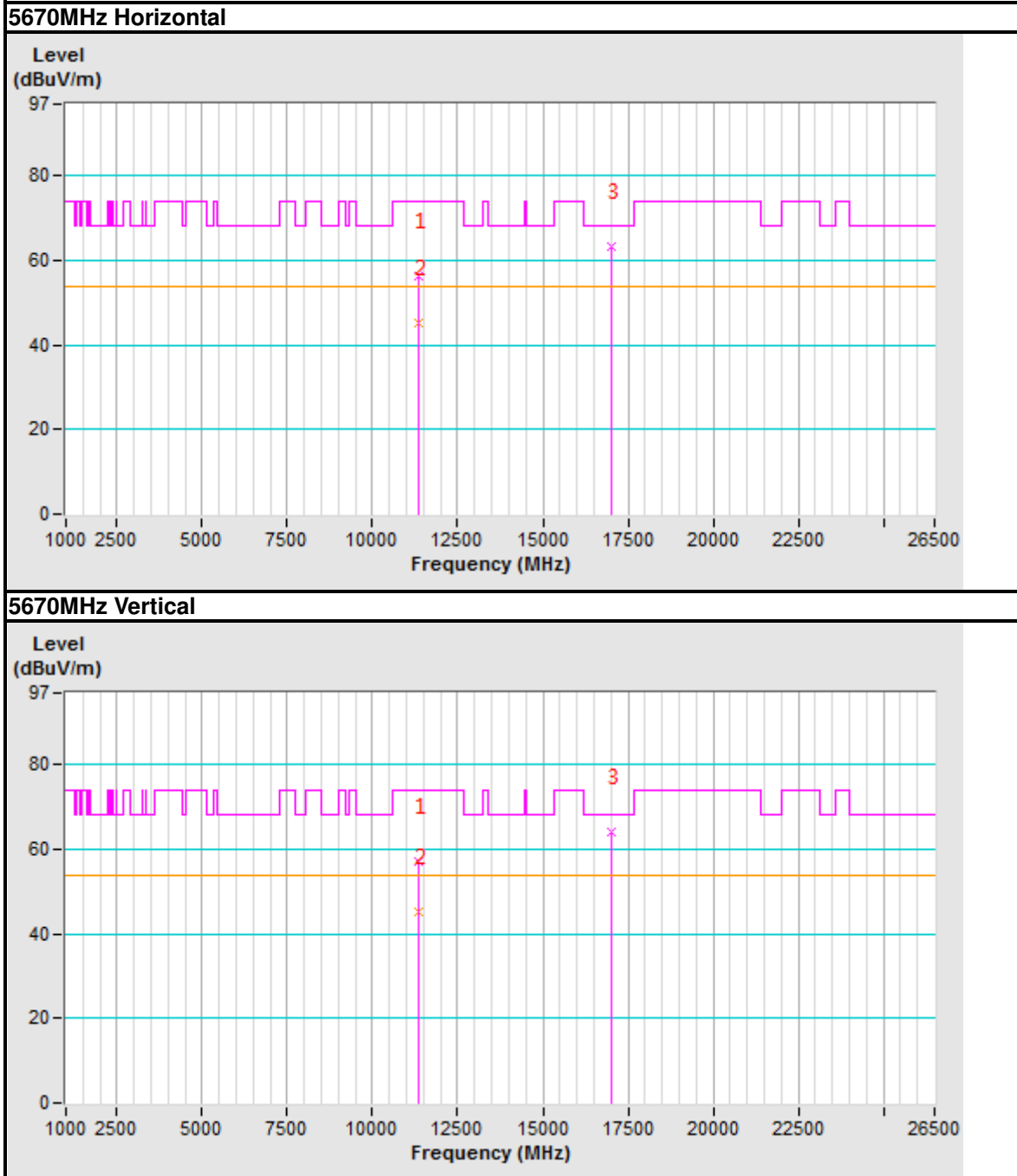
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5670.00	90.31 PK			1.00 V	0	80.56	9.75
2	*5670.00	74.60 AV			1.00 V	0	64.85	9.75
3	#5725.00	51.97 PK	68.20	-16.23	1.00 V	0	42.01	9.96
4	#5742.95	50.20 PK	68.20	-18.00	1.00 V	0	40.17	10.03
5	11340.00	57.14 PK	74.00	-16.86	1.00 V	0	36.90	20.24
6	11340.00	45.28 AV	54.00	-8.72	1.00 V	0	25.04	20.24
7	#17010.00	63.96 PK	68.20	-4.24	1.00 V	0	36.93	27.03

**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.
5. " \* ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

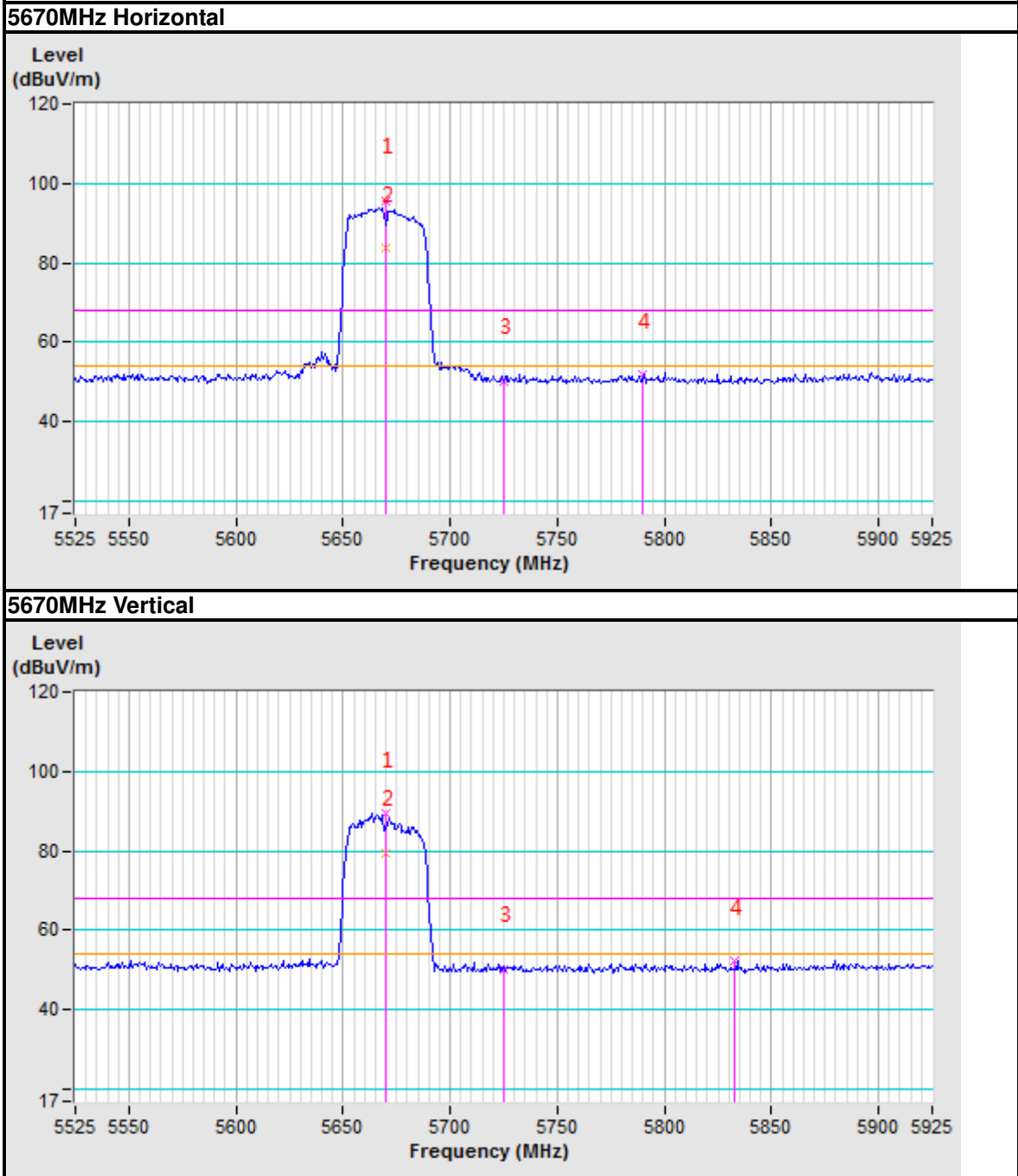


### Test Plot





### Band edge Plot





**802.11ac 80MHz**

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

<b>ANTENNA POLARITY &amp; TEST DISTANCE: HORIZONTAL AT 3 M</b>								
<b>NO.</b>	<b>FREQ. (MHz)</b>	<b>EMISSION LEVEL (dBuV/m)</b>	<b>LIMIT (dBuV/m)</b>	<b>MARGIN (dB)</b>	<b>ANTENNA HEIGHT (m)</b>	<b>TABLE ANGLE (Degree)</b>	<b>RAW VALUE (dBuV)</b>	<b>CORRECTION FACTOR (dB/m)</b>
1	5436.67	50.85 PK	74.00	-23.15	1.60 H	0	41.79	9.06
2	#5470.00	51.31 PK	68.20	-16.89	1.60 H	0	42.22	9.09
3	*5530.00	92.63 PK			1.60 H	0	83.40	9.23
4	*5530.00	73.60 AV			1.60 H	0	64.37	9.23
5	11060.00	57.64 PK	74.00	-16.36	1.00 H	0	37.86	19.78
6	11060.00	46.60 AV	54.00	-7.40	1.00 H	0	26.82	19.78
7	#16590.00	64.11 PK	68.20	-4.09	1.00 H	0	38.39	25.72

<b>ANTENNA POLARITY &amp; TEST DISTANCE: VERTICAL AT 3 M</b>								
<b>NO.</b>	<b>FREQ. (MHz)</b>	<b>EMISSION LEVEL (dBuV/m)</b>	<b>LIMIT (dBuV/m)</b>	<b>MARGIN (dB)</b>	<b>ANTENNA HEIGHT (m)</b>	<b>TABLE ANGLE (Degree)</b>	<b>RAW VALUE (dBuV)</b>	<b>CORRECTION FACTOR (dB/m)</b>
1	5430.90	50.63 PK	74.00	-23.37	1.00 V	0	41.57	9.06
2	#5470.00	50.97 PK	68.20	-17.23	1.00 V	0	41.88	9.09
3	*5530.00	81.24 PK			1.00 V	0	72.01	9.23
4	*5530.00	66.30 AV			1.00 V	0	57.07	9.23
5	11060.00	56.39 PK	74.00	-17.61	1.00 V	0	36.61	19.78
6	11060.00	45.10 AV	54.00	-8.90	1.00 V	0	25.32	19.78
7	#16590.00	64.22 PK	68.20	-3.98	1.00 V	0	38.50	25.72

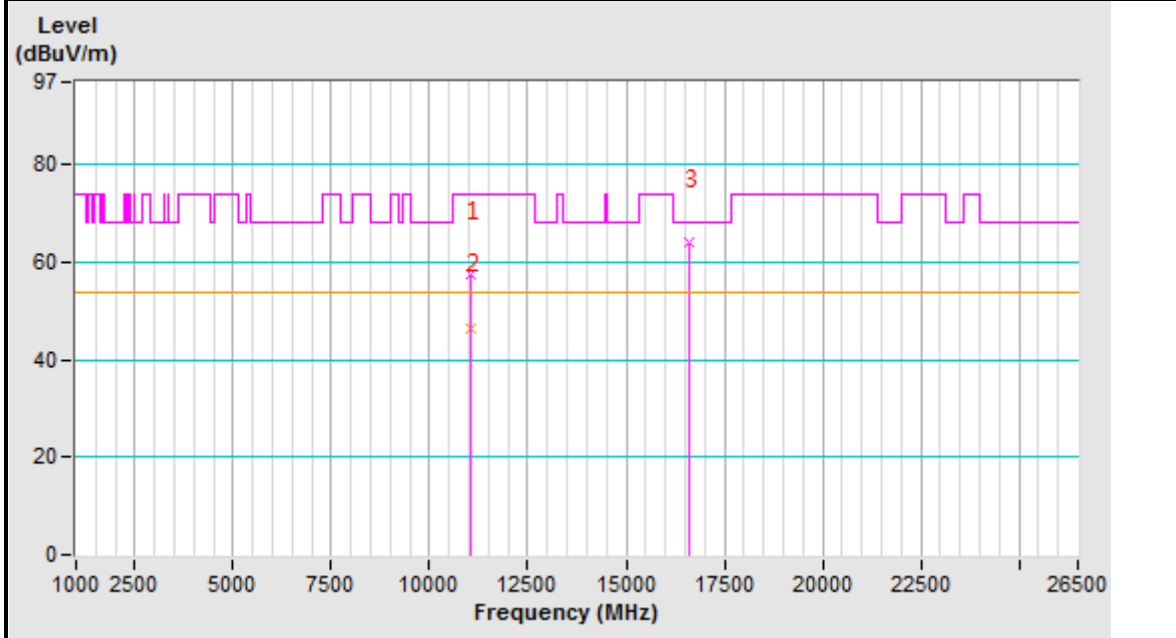
**REMARKS:**

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 less than 20dB margin against the limit.
4. Margin value = Emission level – Limit value.
5. " \* ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

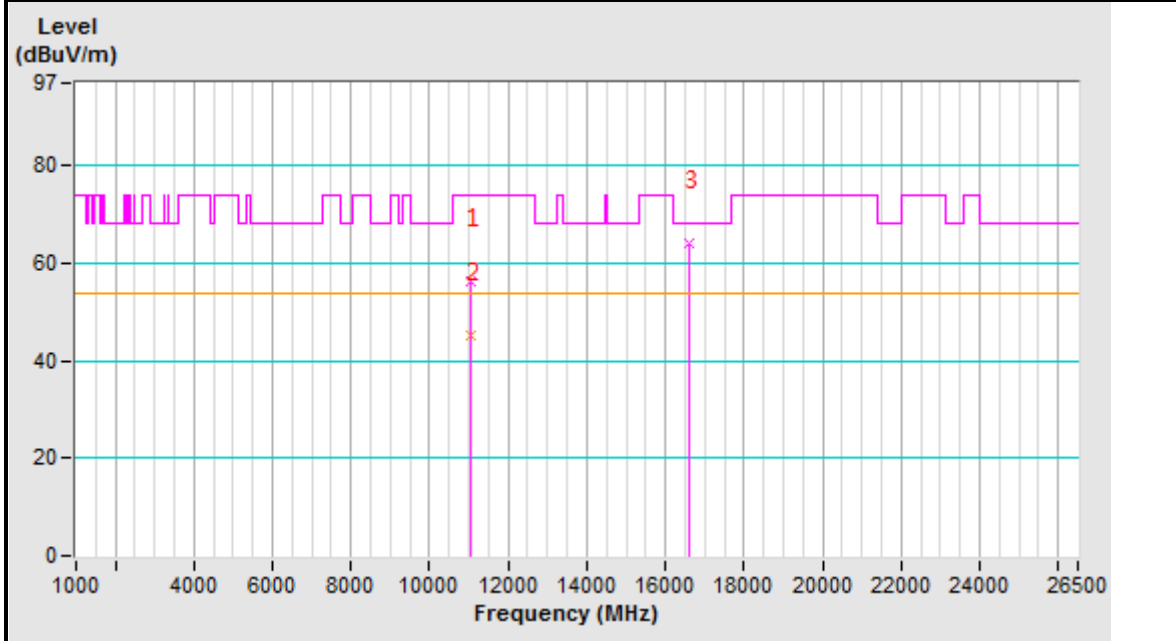


**Test Plot**

**5530MHz Horizontal**



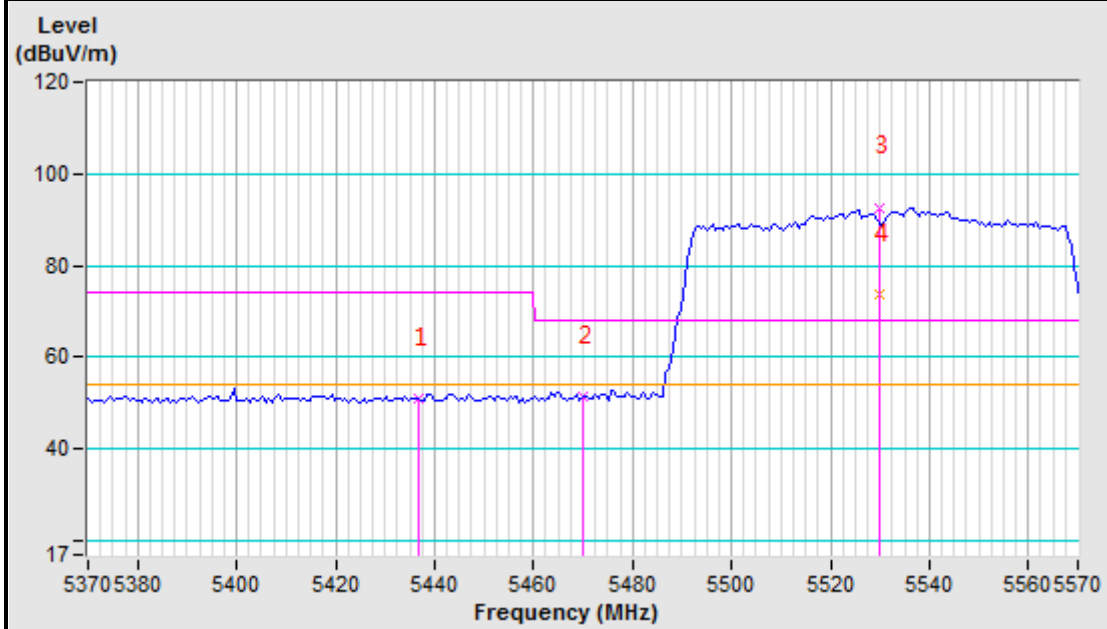
**5530MHz Vertical**



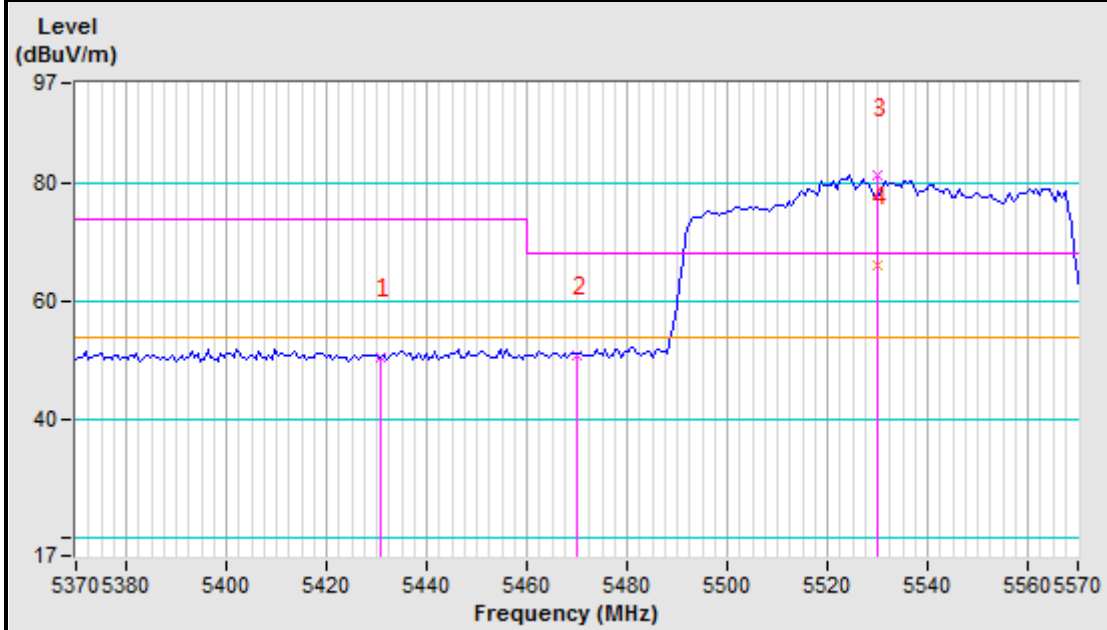


### Band edge Plot

#### 5530MHz Horizontal



#### 5530MHz Vertical





<b>CHANNEL</b>	TX Channel 122	<b>DETECTOR FUNCTION</b>	Peak (PK)
<b>FREQUENCY RANGE</b>	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	99.83 PK			1.61 H	0	90.30	9.53
2	*5610.00	80.20 AV			1.61 H	0	70.67	9.53
3	#5725.00	51.93 PK	68.20	-16.27	1.61 H	0	41.97	9.96
4	#5750.00	52.23 PK	68.20	-15.97	1.61 H	0	42.18	10.05
5	11220.00	56.24 PK	74.00	-17.76	1.00 H	0	36.19	20.05
6	11220.00	45.30 AV	54.00	-8.70	1.00 H	0	25.25	20.05
7	#16830.00	64.11 PK	68.20	-4.09	1.00 H	0	37.63	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	88.76 PK			1.00 V	0	79.23	9.53
2	*5610.00	67.10 AV			1.00 V	0	57.57	9.53
3	#5725.00	50.31 PK	68.20	-17.89	1.00 V	0	40.35	9.96
4	#5751.28	50.27 PK	68.20	-17.93	1.00 V	0	40.21	10.06
5	11220.00	56.27 PK	74.00	-17.73	1.00 V	0	36.22	20.05
6	11220.00	47.20 AV	54.00	-6.80	1.00 V	0	27.15	20.05
7	#16830.00	63.10 PK	68.20	-5.10	1.00 V	0	36.62	26.48

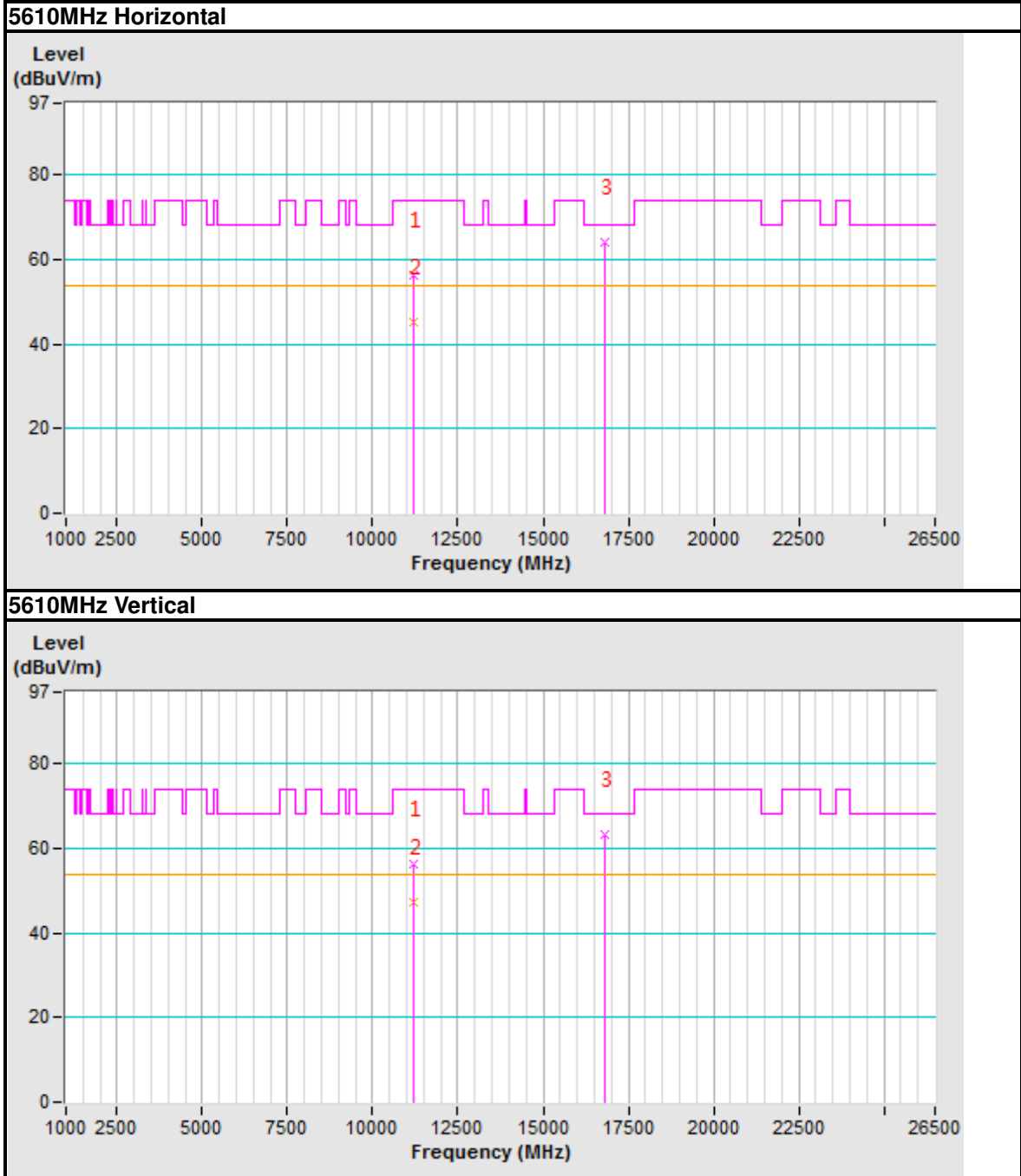
**REMARKS:**

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 less than 20dB margin against the limit.
4. Margin value = Emission level – Limit value.
5. " \* ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.





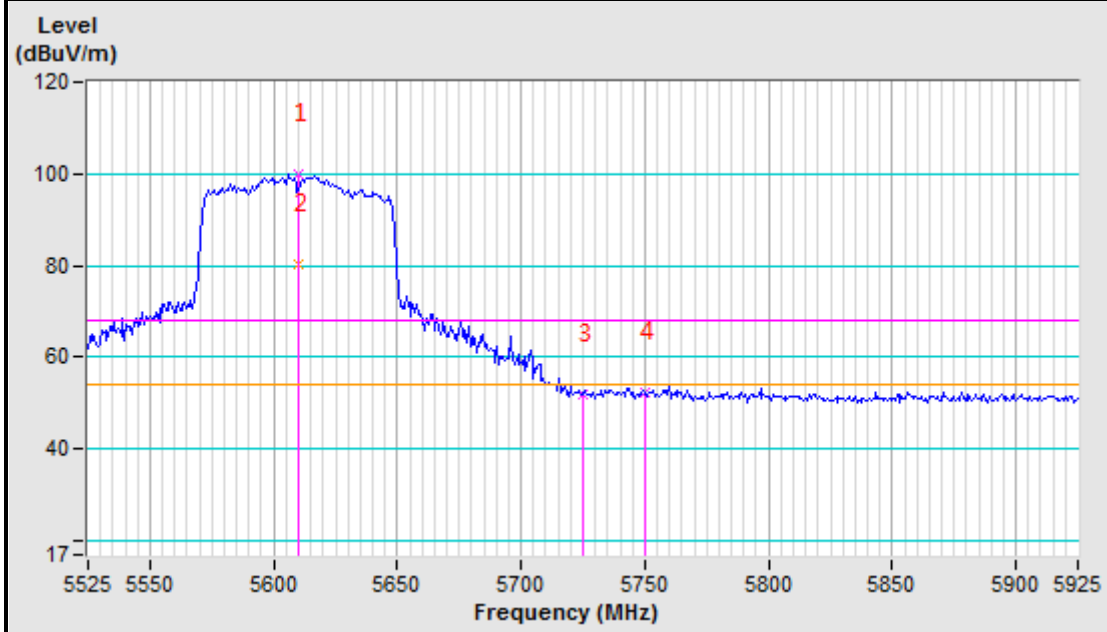
Test Plot



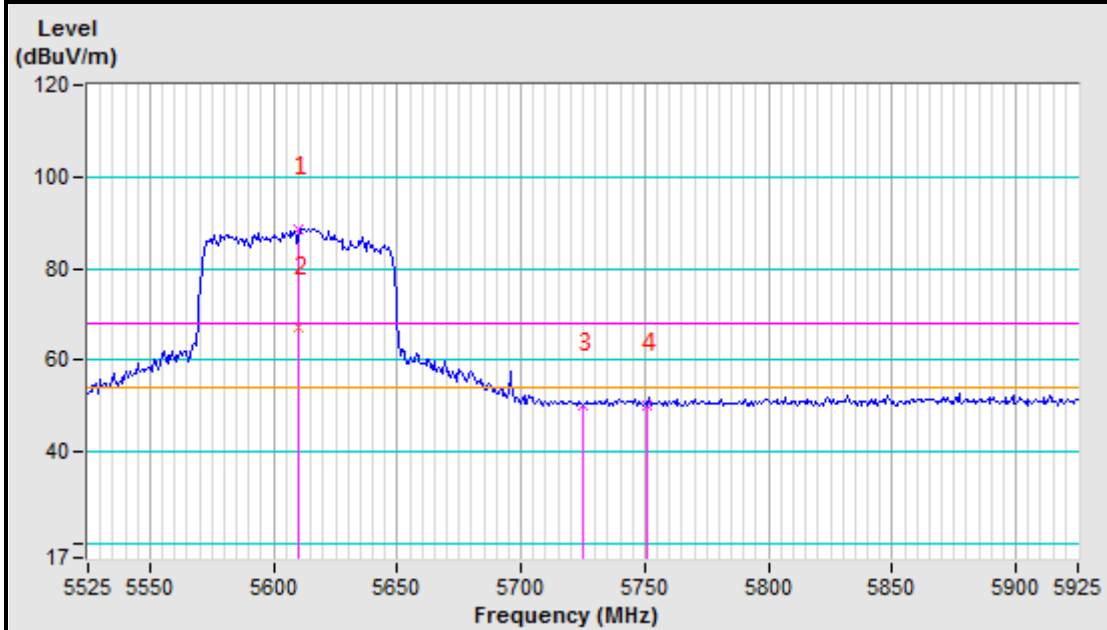


### Band edge Plot

#### 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	#5610.00	99.83 PK			1.61 H	0	90.30	9.53
2	#5610.00	80.20 AV			1.61 H	0	70.67	9.53
3	#5710.70	59.77 PK	108.20	-48.43	1.77 H	0	49.87	9.90
4	#5725.00	51.93 PK	68.20	-16.27	1.61 H	0	41.97	9.96
5	#5725.00	71.04 PK	122.20	-51.16	1.77 H	0	61.08	9.96
6	#5750.00	52.23 PK	68.20	-15.97	1.61 H	0	42.18	10.05
7	#5863.46	50.48 PK	108.43	-57.95	1.77 H	0	40.01	10.47

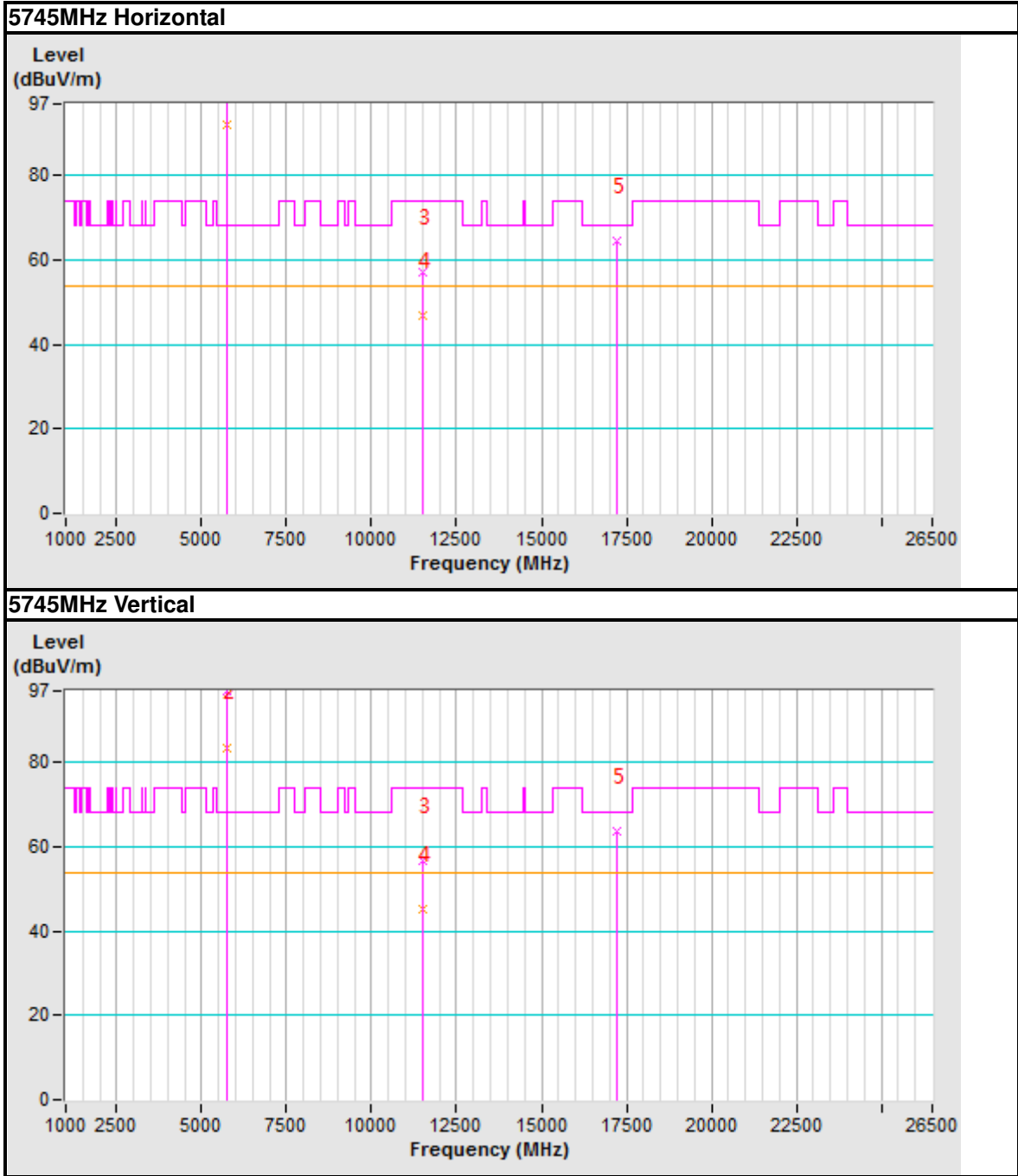
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5610.00	88.76 PK			1.00 V	0	79.23	9.53
2	#5610.00	67.10 AV			1.00 V	0	57.57	9.53
3	#5719.11	61.17 PK	110.55	-49.38	1.00 V	0	51.23	9.94
4	#5725.00	50.31 PK	68.20	-17.89	1.00 V	0	40.35	9.96
5	#5725.00	65.34 PK	122.20	-56.86	1.00 V	0	55.38	9.96
6	#5751.28	50.27 PK	68.20	-17.93	1.00 V	0	40.21	10.06
7	#5868.51	52.14 PK	107.02	-54.88	1.00 V	0	41.65	10.49

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.
5. " \* ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

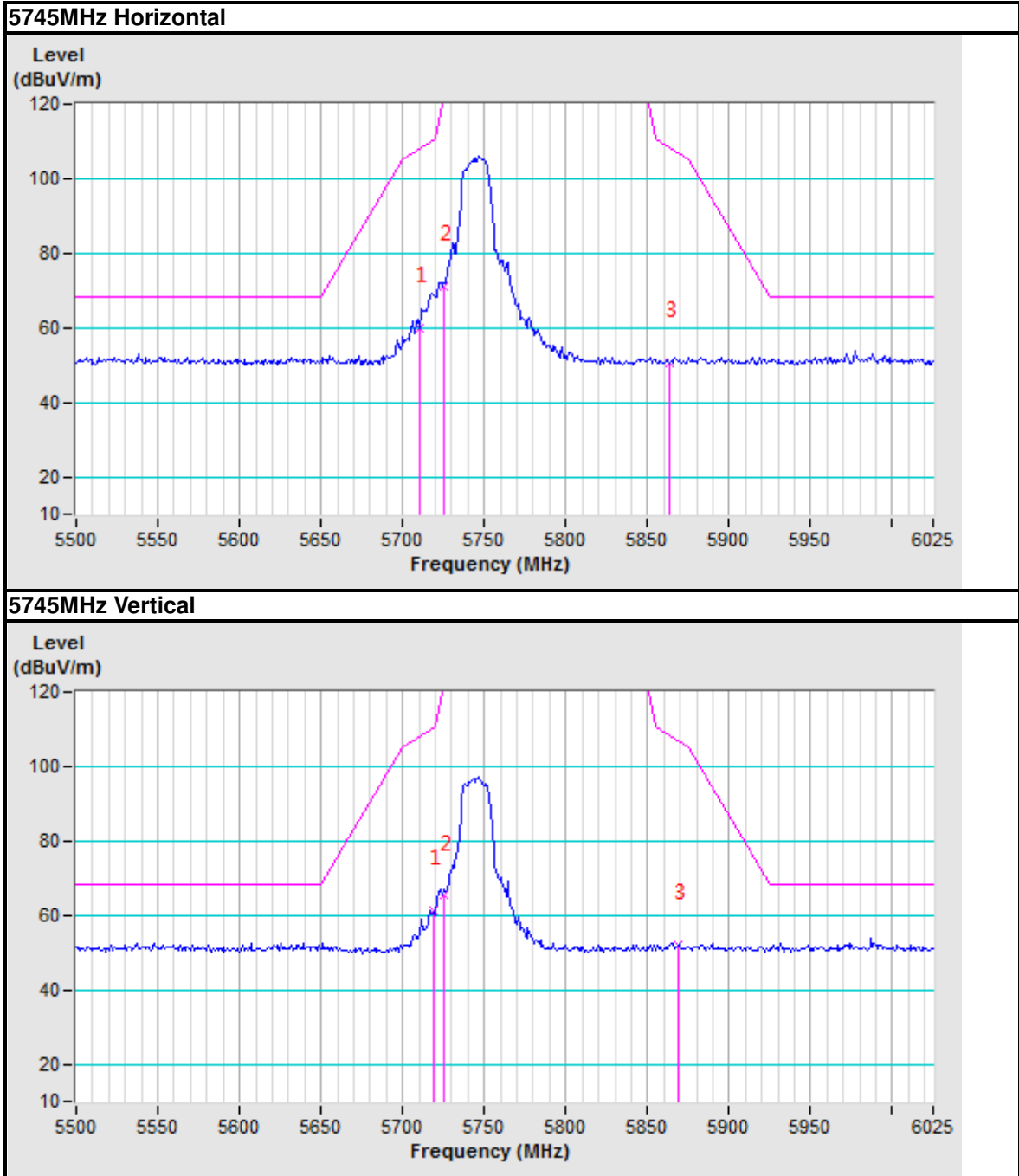


Test Plot





**Band edge Plot**





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	#5706.49	51.10 PK	107.02	-55.92	1.34 H	0	41.21	9.89
2	*5785.00	105.43 PK			1.00 H	84	95.25	10.18
3	*5785.00	91.80 AV			1.00 H	84	81.62	10.18
4	#5857.57	50.89 PK	110.08	-59.19	1.34 H	0	40.44	10.45
5	#5881.97	50.80 PK	100.02	-49.22	1.34 H	0	40.25	10.55
6	11570.00	55.90 PK	74.00	-18.10	1.00 H	0	35.24	20.66
7	11570.00	45.30 AV	54.00	-8.70	1.00 H	0	24.64	20.66
8	#17355.00	64.31 PK	68.20	-3.89	1.00 H	0	36.85	27.46

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

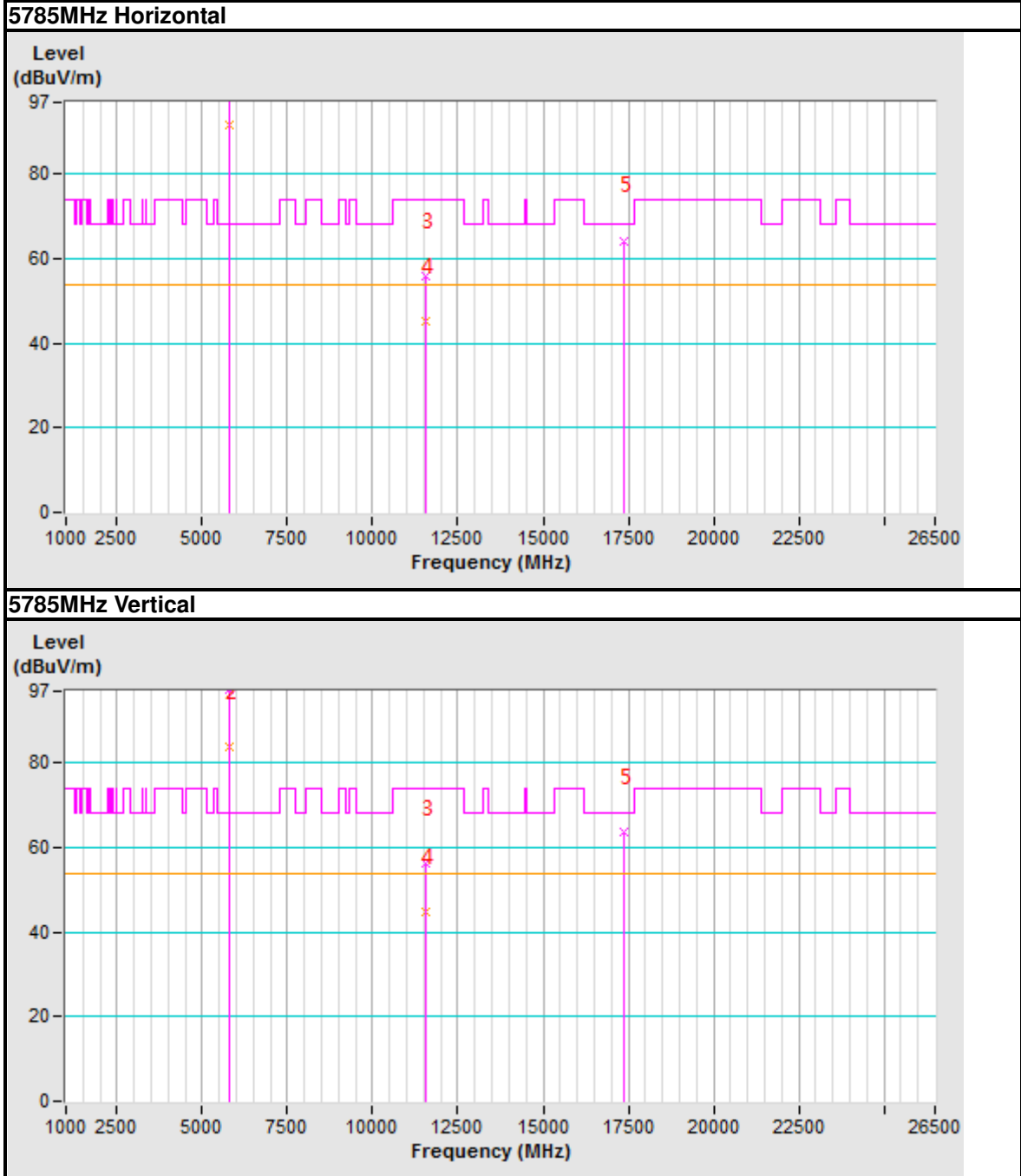
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5703.97	50.29 PK	106.31	-56.02	1.00 V	0	40.41	9.88
2	*5785.00	97.31 PK			1.00 V	70	87.13	10.18
3	*5785.00	83.71 AV			1.00 V	70	73.53	10.18
4	#5855.89	51.50 PK	110.55	-59.05	1.00 V	0	41.05	10.45
5	#5987.14	56.76 PK	68.20	-11.44	1.00 V	0	45.82	10.94
6	11570.00	56.44 PK	74.00	-17.56	1.00 V	0	35.78	20.66
7	11570.00	44.90 AV	54.00	-9.10	1.00 V	0	24.24	20.66
8	#17355.00	63.63 PK	68.20	-4.57	1.00 V	0	36.17	27.46

CREMARKS:

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.
5. " \* ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

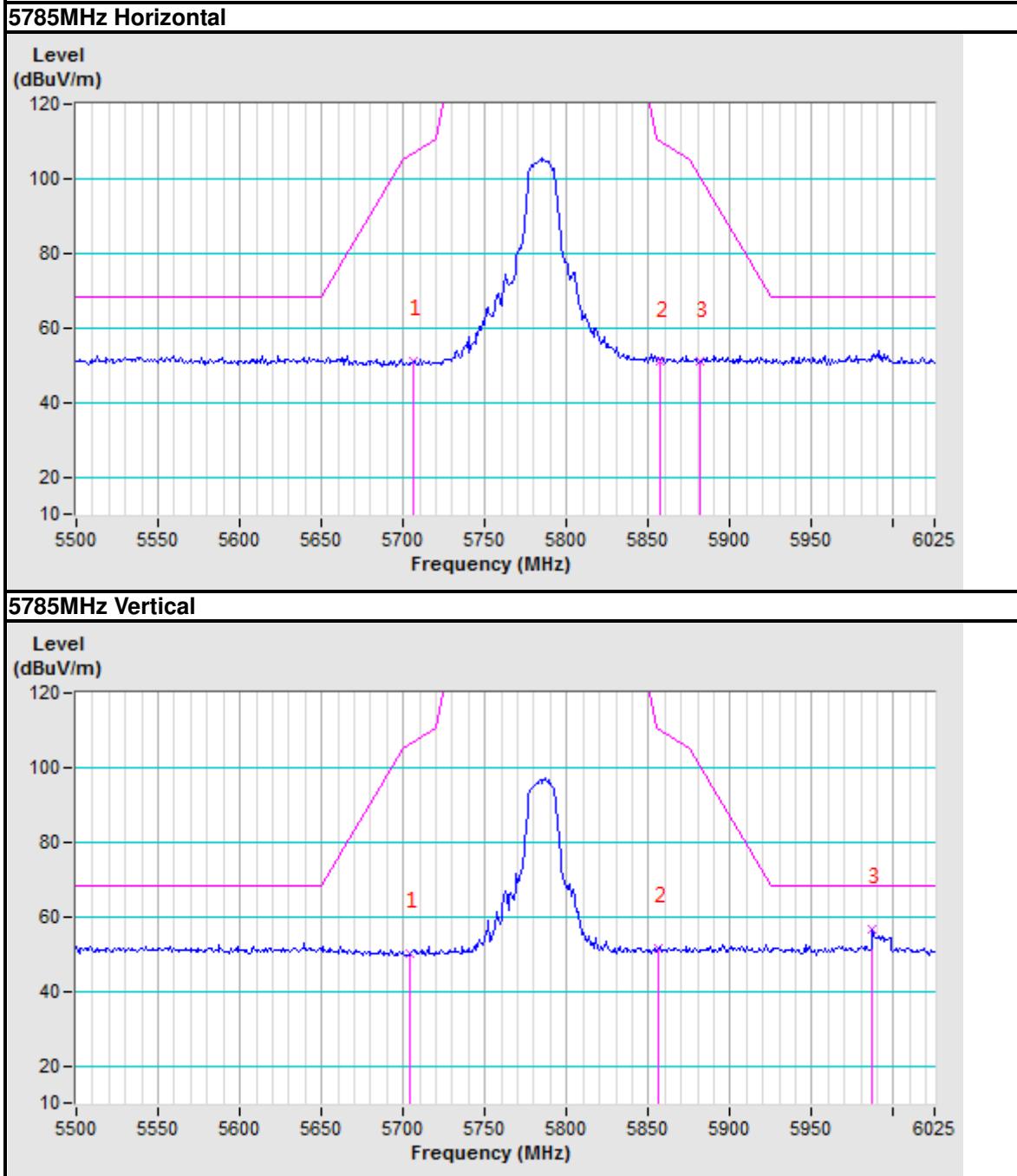


### Test Plot





### Band edge Plot







<b>CHANNEL</b>	TX Channel 165	<b>DETECTOR FUNCTION</b>	Peak (PK)
<b>FREQUENCY RANGE</b>	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	#5692.19	50.09 PK	99.44	-49.35	1.92 H	0	40.25	9.84
2	*5825.00	104.81 PK			1.00 H	0	94.48	10.33
3	*5825.00	91.20 AV			1.00 H	0	80.87	10.33
4	#5850.00	63.15 PK	122.20	-59.05	1.92 H	0	52.73	10.42
5	#5862.62	55.27 PK	108.66	-53.39	1.92 H	0	44.80	10.47
6	11650.00	56.25 PK	74.00	-17.75	1.00 H	0	35.41	20.84
7	11650.00	45.12 AV	54.00	-8.88	1.00 H	0	24.28	20.84
8	#17475.00	62.99 PK	68.20	-5.21	1.00 H	0	35.38	27.61

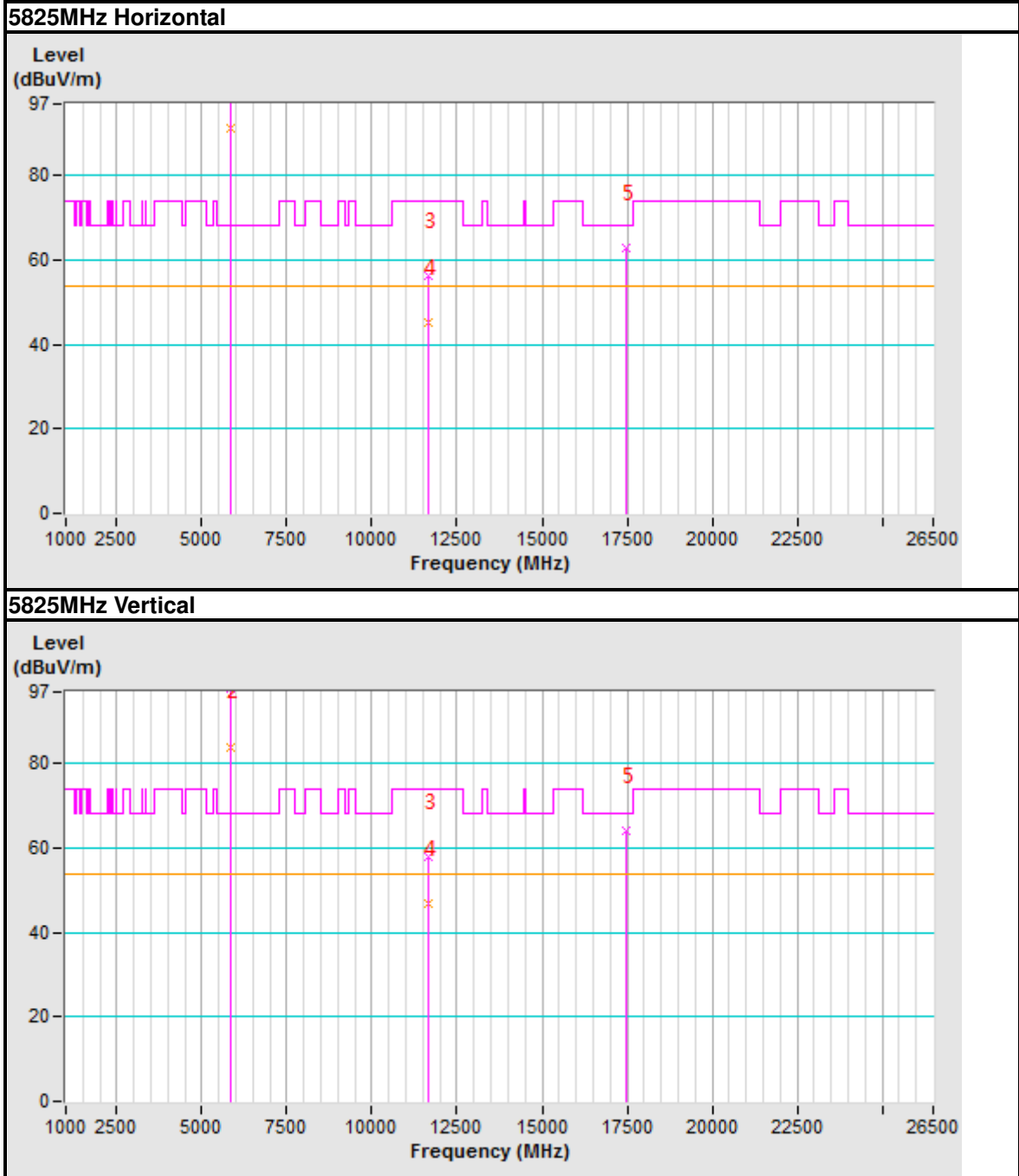
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5693.03	49.81 PK	100.06	-50.25	1.00 V	0	39.97	9.84
2	*5825.00	97.72 PK			1.00 V	54	87.39	10.33
3	*5825.00	84.03 AV			1.00 V	54	73.70	10.33
4	#5850.00	54.74 PK	122.20	-67.46	1.00 V	0	44.32	10.42
5	#5896.27	50.67 PK	89.42	-38.75	1.00 V	0	40.08	10.59
6	11650.00	57.85 PK	74.00	-16.15	1.00 V	0	37.01	20.84
7	11650.00	46.80 AV	54.00	-7.20	1.00 V	0	25.96	20.84
8	#17475.00	64.02 PK	68.20	-4.18	1.00 V	0	36.41	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 less than 20dB margin against the limit.
4. Margin value = Emission level – Limit value.
5. " \* ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.



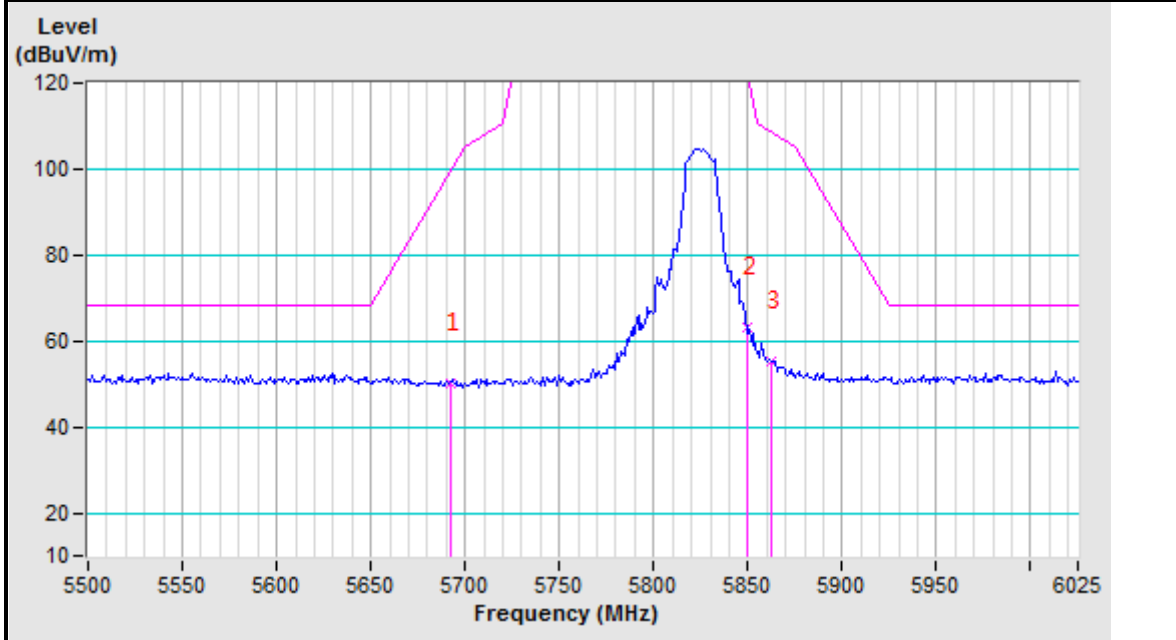
Test Plot



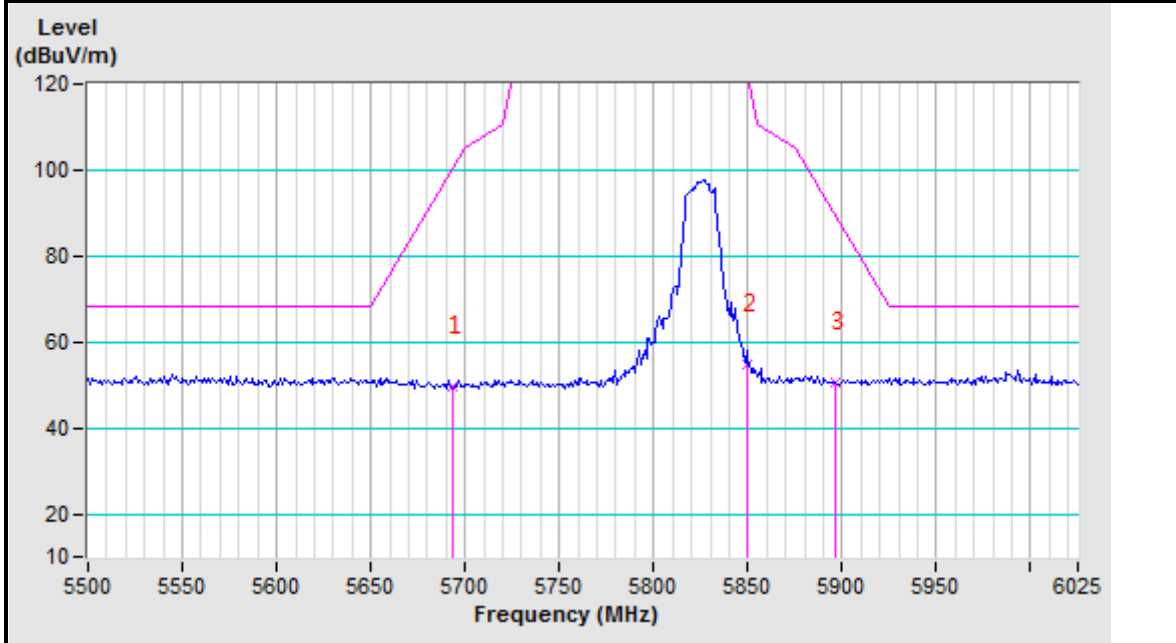


### Band edge Plot

#### 5825MHz Horizontal



#### 5825MHz Vertical





**802.11n (20MHz)**

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

<b>ANTENNA POLARITY &amp; TEST DISTANCE: HORIZONTAL AT 3 M</b>								
NO.	FREQ. (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	69.73 PK	109.61	-39.88	1.75 H	0	59.80	9.93
2	#5725.00	75.06 PK	122.20	-47.14	1.75 H	0	65.10	9.96
3	*5745.00	105.11 PK			1.00 H	0	95.08	10.03
4	*5745.00	90.20 AV			1.00 H	0	80.17	10.03
5	#5878.61	50.52 PK	102.52	-52.00	1.75 H	0	39.99	10.53
6	11490.00	56.32 PK	74.00	-17.68	1.00 H	0	35.83	20.49
7	11490.00	44.80 AV	54.00	-9.20	1.00 H	0	24.31	20.49
8	#17235.00	63.48 PK	68.20	-4.72	1.00 H	0	36.17	27.31

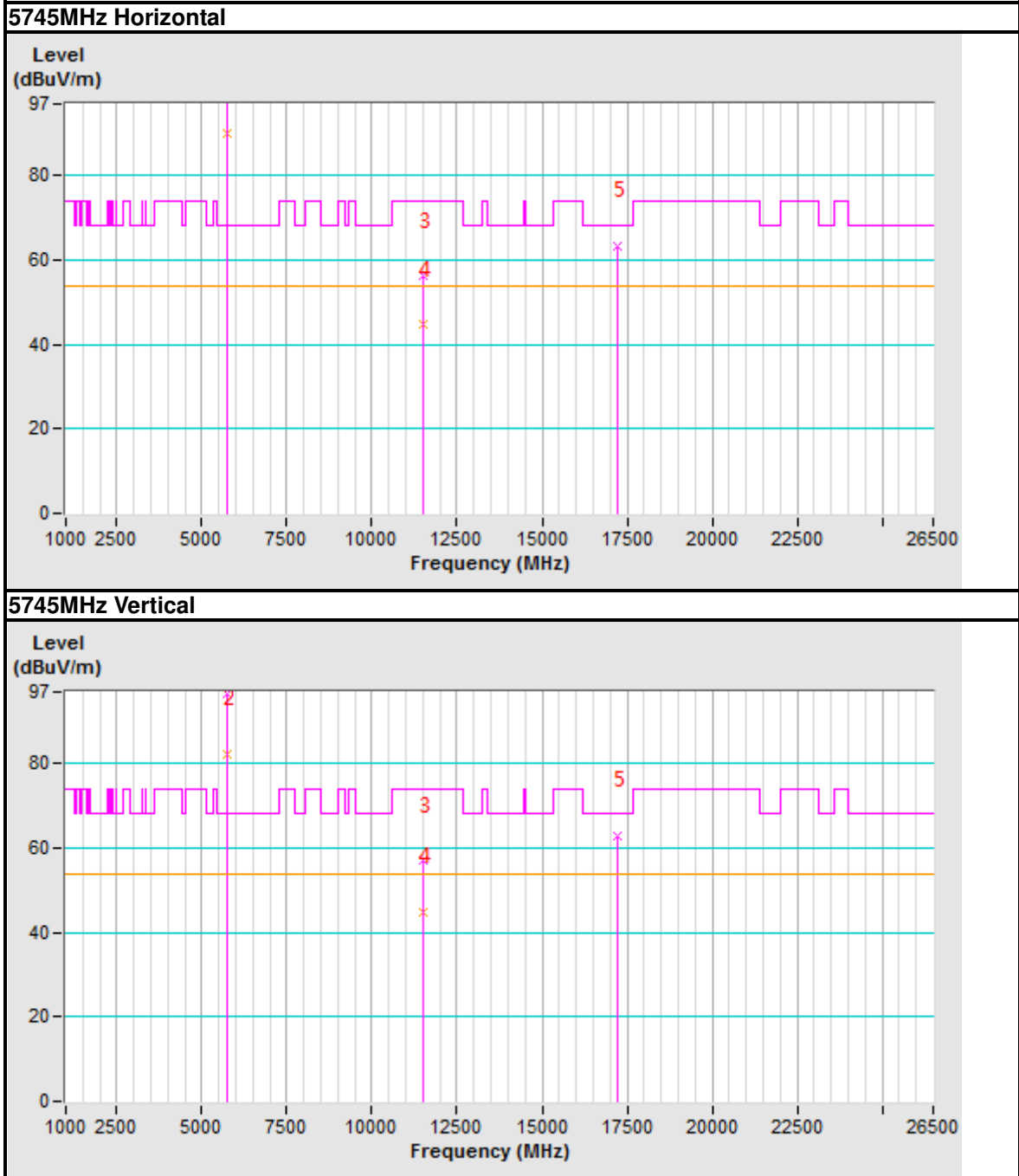
<b>ANTENNA POLARITY &amp; TEST DISTANCE: VERTICAL AT 3 M</b>								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5714.06	57.60 PK	109.14	-51.54	1.00 V	0	47.69	9.91
2	#5725.00	64.86 PK	122.20	-57.34	1.00 V	0	54.90	9.96
3	*5745.00	96.65 PK			1.00 V	58	86.62	10.03
4	*5745.00	82.37 AV			1.00 V	58	72.34	10.03
5	#5996.39	56.39 PK	68.20	-11.81	1.00 V	0	45.42	10.97
6	11490.00	57.00 PK	74.00	-17.00	1.00 V	0	36.51	20.49
7	11490.00	45.00 AV	54.00	-9.00	1.00 V	0	24.51	20.49
8	#17235.00	63.06 PK	68.20	-5.14	1.00 V	0	35.75	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 less than 20dB margin against the limit.
4. Margin value = Emission level – Limit value.
5. " \* ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

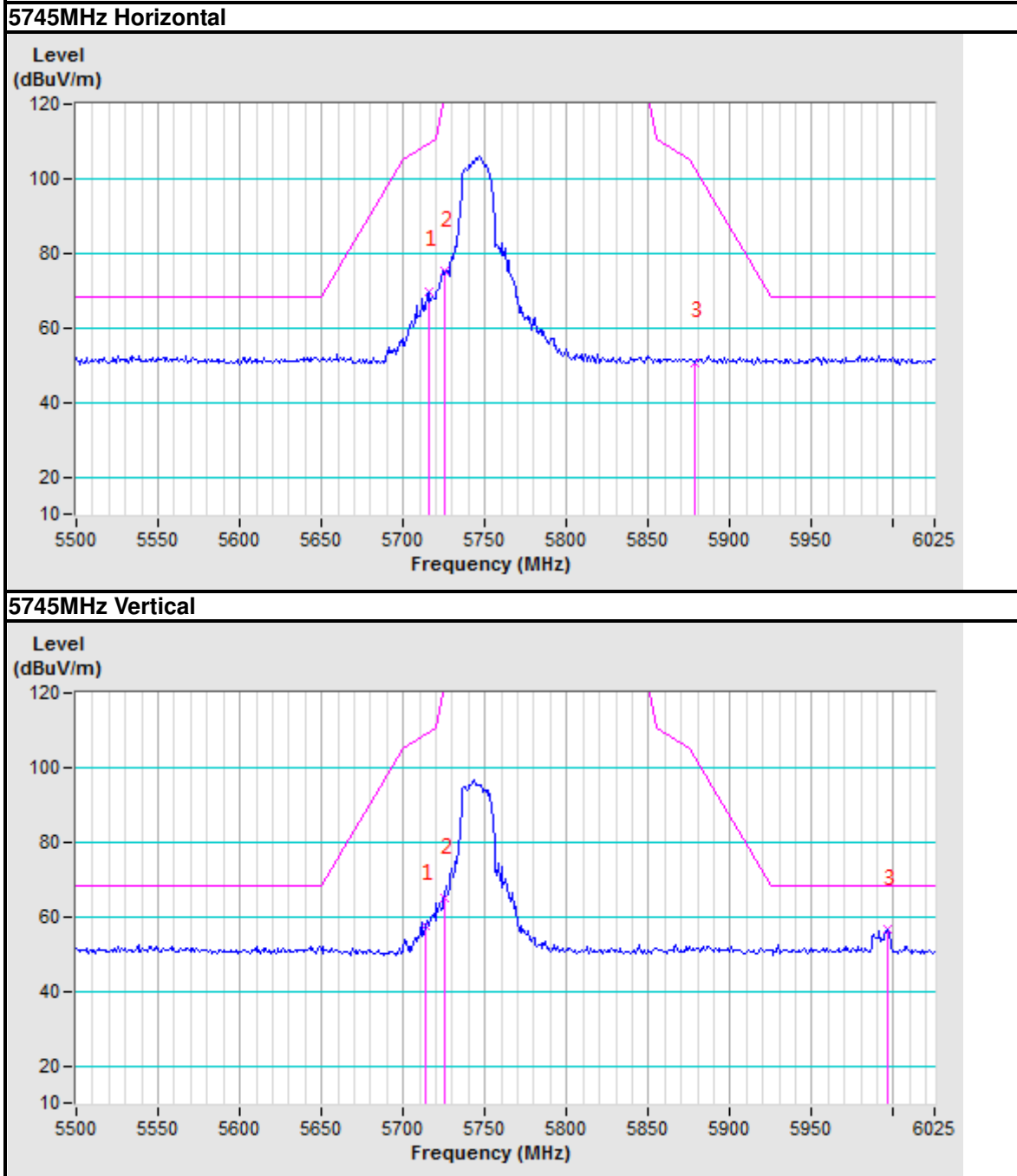


### Test Plot





### Band edge Plot





<b>CHANNEL</b>	TX Channel 157	<b>DETECTOR FUNCTION</b>	Peak (PK)
<b>FREQUENCY RANGE</b>	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	#5690.50	50.51 PK	98.20	-47.69	1.00 H	0	40.68	9.83
2	*5785.00	105.11 PK			1.00 H	30	94.93	10.18
3	*5785.00	90.20 AV			1.00 H	30	80.02	10.18
4	#5864.30	50.69 PK	108.19	-57.50	1.00 H	0	40.21	10.48
5	#5912.26	50.54 PK	77.60	-27.06	1.00 H	0	39.89	10.65
6	11570.00	56.89 PK	74.00	-17.11	1.00 H	0	36.23	20.66
7	11570.00	46.20 AV	54.00	-7.80	1.00 H	0	25.54	20.66
8	#17355.00	64.36 PK	68.20	-3.84	1.00 H	0	36.90	27.46

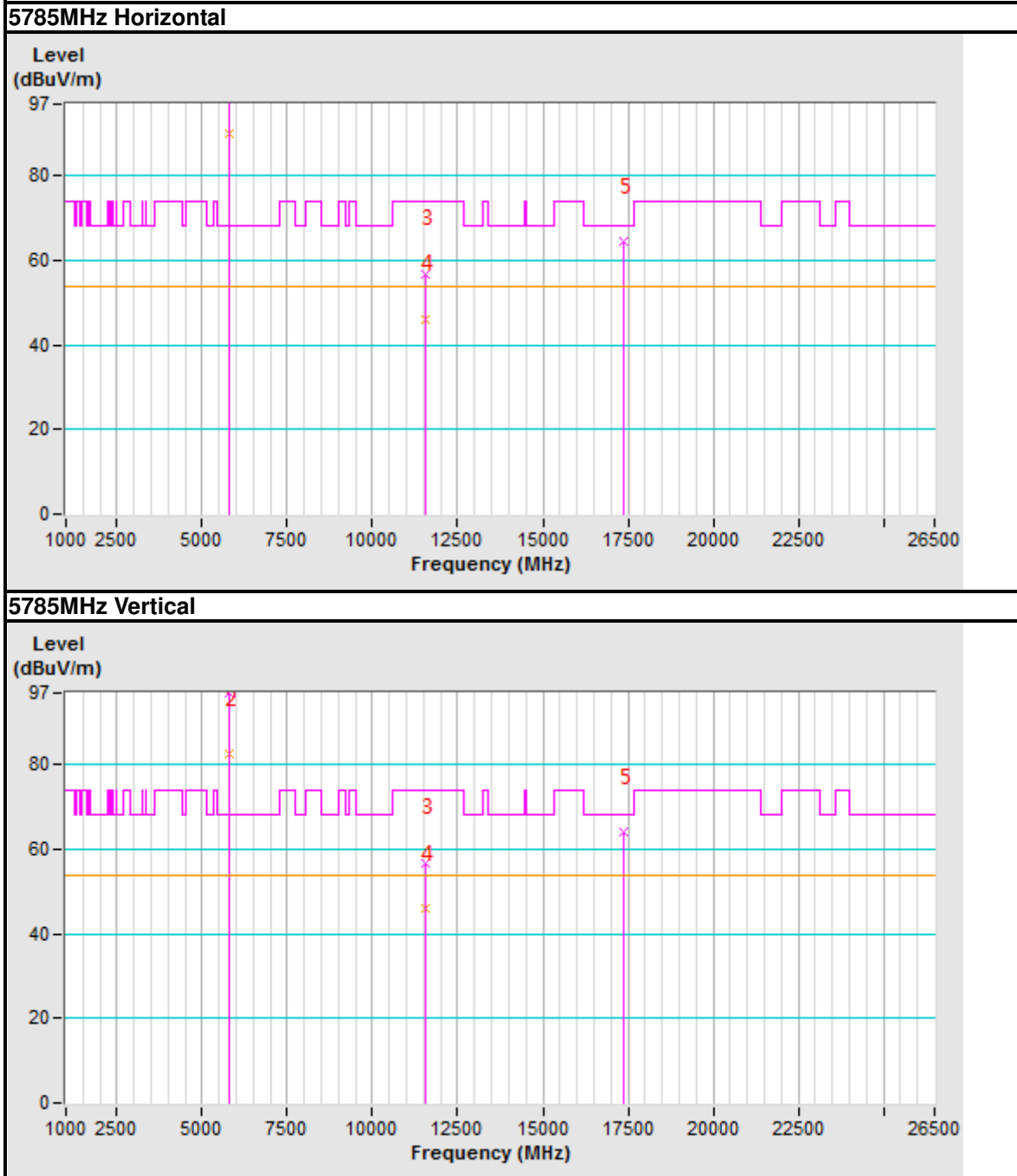
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5713.22	49.82 PK	108.90	-59.08	1.00 V	0	39.91	9.91
2	*5785.00	96.96 PK			1.00 V	33	86.78	10.18
3	*5785.00	82.50 AV			1.00 V	33	72.32	10.18
4	#5857.57	51.75 PK	110.08	-58.33	1.00 V	0	41.30	10.45
5	#5987.98	56.00 PK	68.20	-12.20	1.00 V	0	45.06	10.94
6	11570.00	56.86 PK	74.00	-17.14	1.00 V	0	36.20	20.66
7	11570.00	46.00 AV	54.00	-8.00	1.00 V	0	25.34	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 less than 20dB margin against the limit.
4. Margin value = Emission level – Limit value.
5. " \* ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.



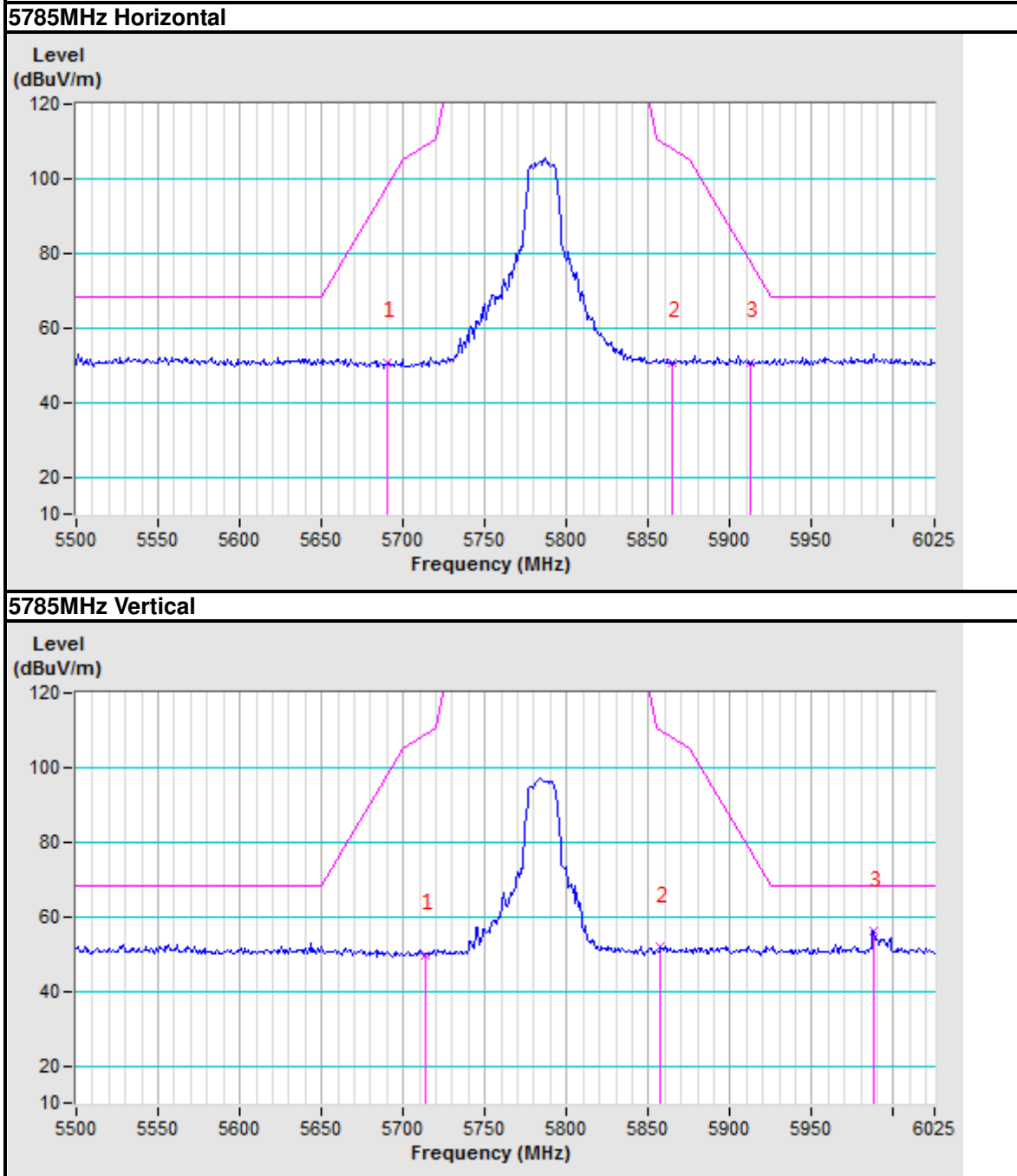
### Test Plot







### Band edge Plot





<b>CHANNEL</b>	TX Channel 165	<b>DETECTOR FUNCTION</b>	Peak (PK)
<b>FREQUENCY RANGE</b>	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	#5695.55	50.61 PK	101.92	-51.31	1.93 H	0	40.77	9.84
2	*5825.00	104.81 PK			1.00 H	20	94.48	10.33
3	*5825.00	89.10 AV			1.00 H	20	78.77	10.33
4	#5850.00	62.29 PK	122.20	-59.91	1.93 H	0	51.87	10.42
5	#5871.87	52.27 PK	106.07	-53.80	1.93 H	0	41.77	10.50
6	11650.00	55.92 PK	74.00	-18.08	1.00 H	0	35.08	20.84
7	11650.00	45.90 AV	54.00	-8.10	1.00 H	0	25.06	20.84
8	#17475.00	63.55 PK	68.20	-4.65	1.00 H	0	35.94	27.61

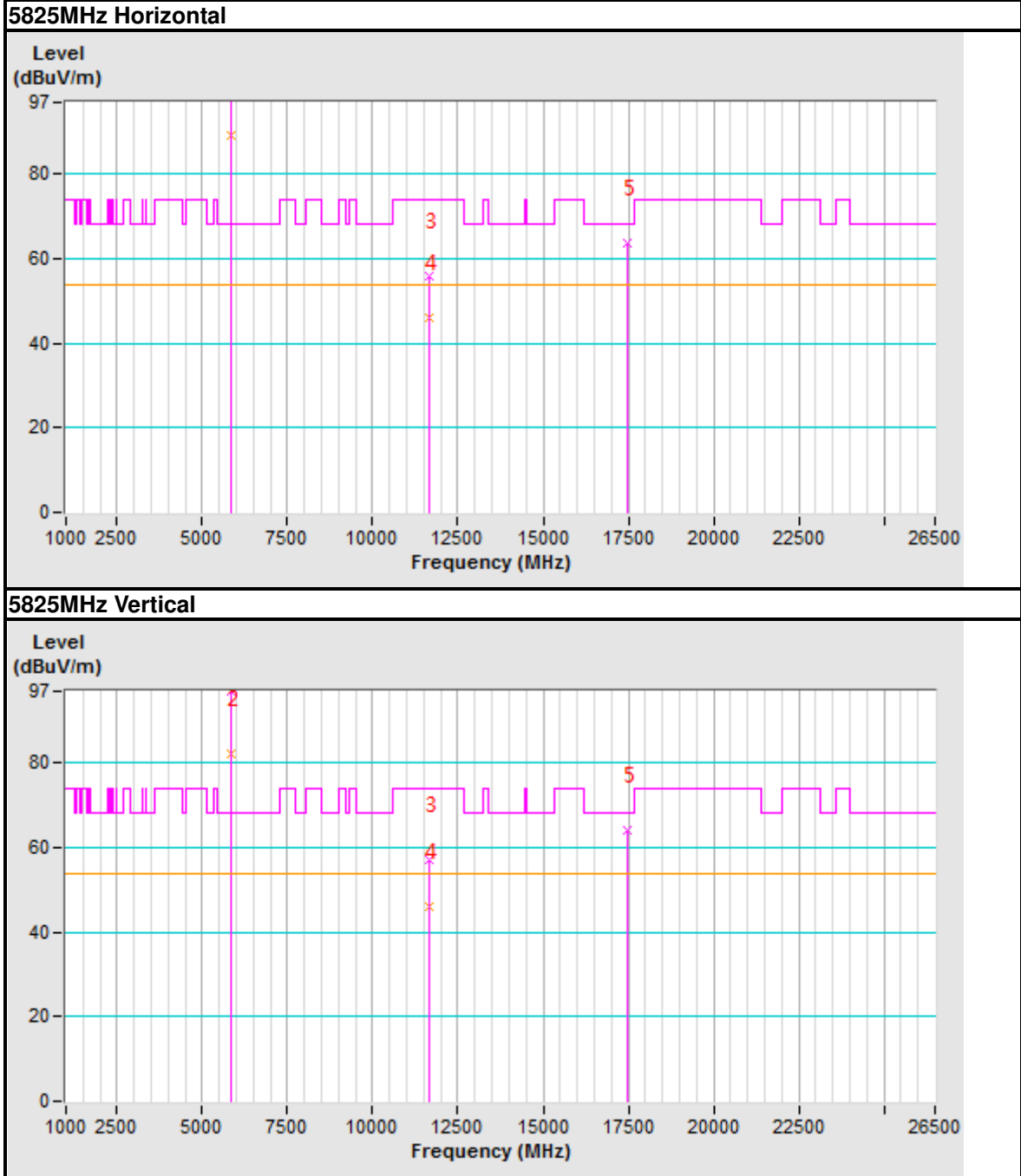
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5675.36	50.08 PK	87.01	-36.93	1.00 V	0	40.31	9.77
2	*5825.00	96.90 PK			1.00 V	55	86.57	10.33
3	*5825.00	82.30 AV			1.00 V	55	71.97	10.33
4	#5850.00	58.28 PK	122.20	-63.92	1.00 V	0	47.86	10.42
5	#5987.98	54.50 PK	68.20	-13.70	1.00 V	0	43.56	10.94
6	11650.00	57.22 PK	74.00	-16.78	1.00 V	0	36.38	20.84
7	11650.00	46.11 AV	54.00	-7.89	1.00 V	0	25.27	20.84
8	#17475.00	64.02 PK	68.20	-4.18	1.00 V	0	36.41	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 less than 20dB margin against the limit.
4. Margin value = Emission level – Limit value.
5. " \* ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.



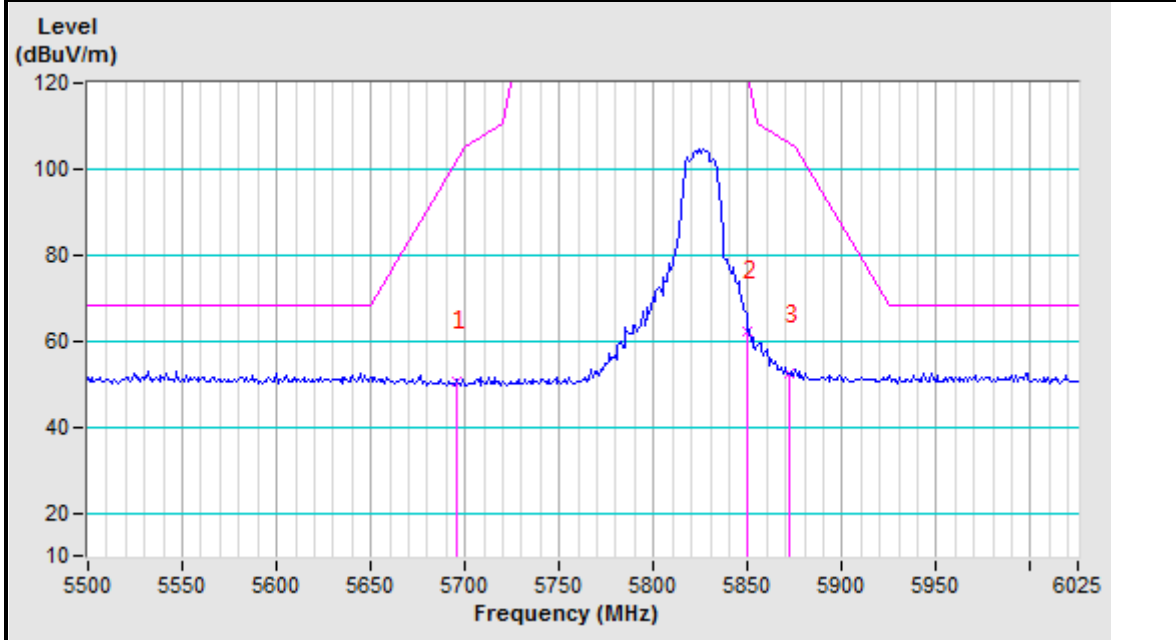
### Test Plot



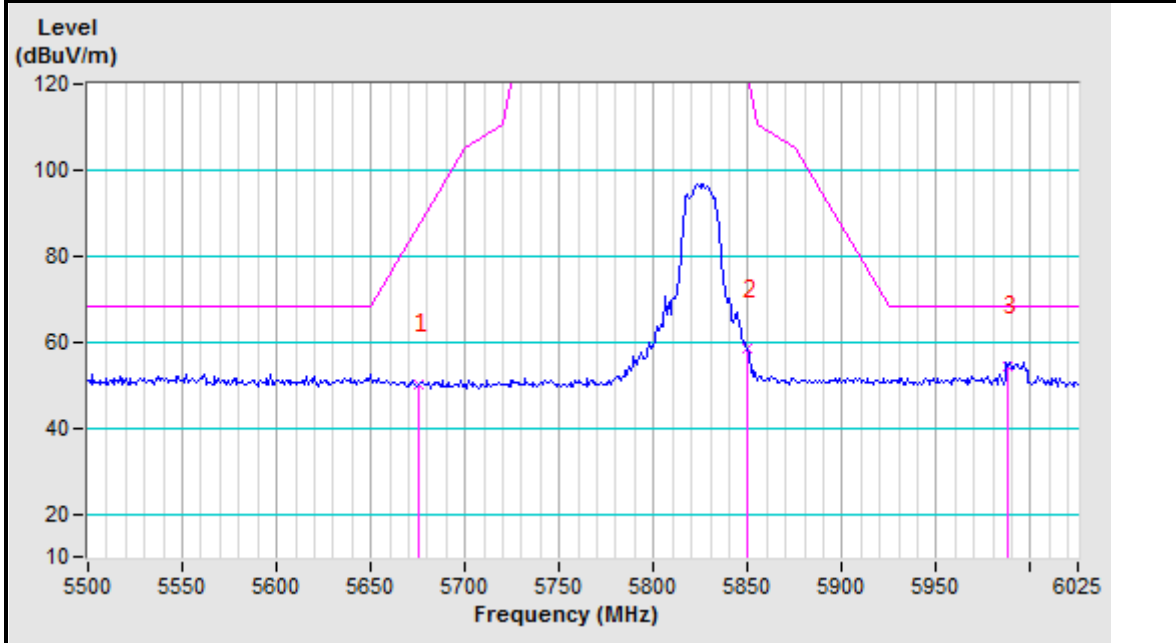


### Band edge Plot

#### 5825MHz Horizontal



#### 5825MHz Vertical





**802.11n (40MHz)**

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

<b>ANTENNA POLARITY &amp; TEST DISTANCE: HORIZONTAL AT 3 M</b>								
<b>NO.</b>	<b>FREQ. (MHz)</b>	<b>EMISSION LEVEL (dBuV/m)</b>	<b>LIMIT (dBuV/m)</b>	<b>MARGIN (dB)</b>	<b>ANTENNA HEIGHT (m)</b>	<b>TABLE ANGLE (Degree)</b>	<b>RAW VALUE (dBuV)</b>	<b>CORRECTION FACTOR (dB/m)</b>
1	#5716.59	69.74 PK	109.85	-40.11	1.21 H	0	59.81	9.93
2	#5725.00	72.25 PK	122.20	-49.95	1.21 H	0	62.29	9.96
3	*5755.00	102.62 PK			1.00 H	32	92.55	10.07
4	*5755.00	84.15 AV			1.00 H	32	74.08	10.07
5	#5891.23	50.94 PK	93.16	-42.22	1.21 H	0	40.36	10.58
6	11510.00	57.28 PK	74.00	-16.72	1.00 H	0	36.75	20.53
7	11510.00	46.00 AV	54.00	-8.00	1.00 H	0	25.47	20.53
8	#17265.00	63.48 PK	68.20	-4.72	1.00 H	0	36.13	27.35

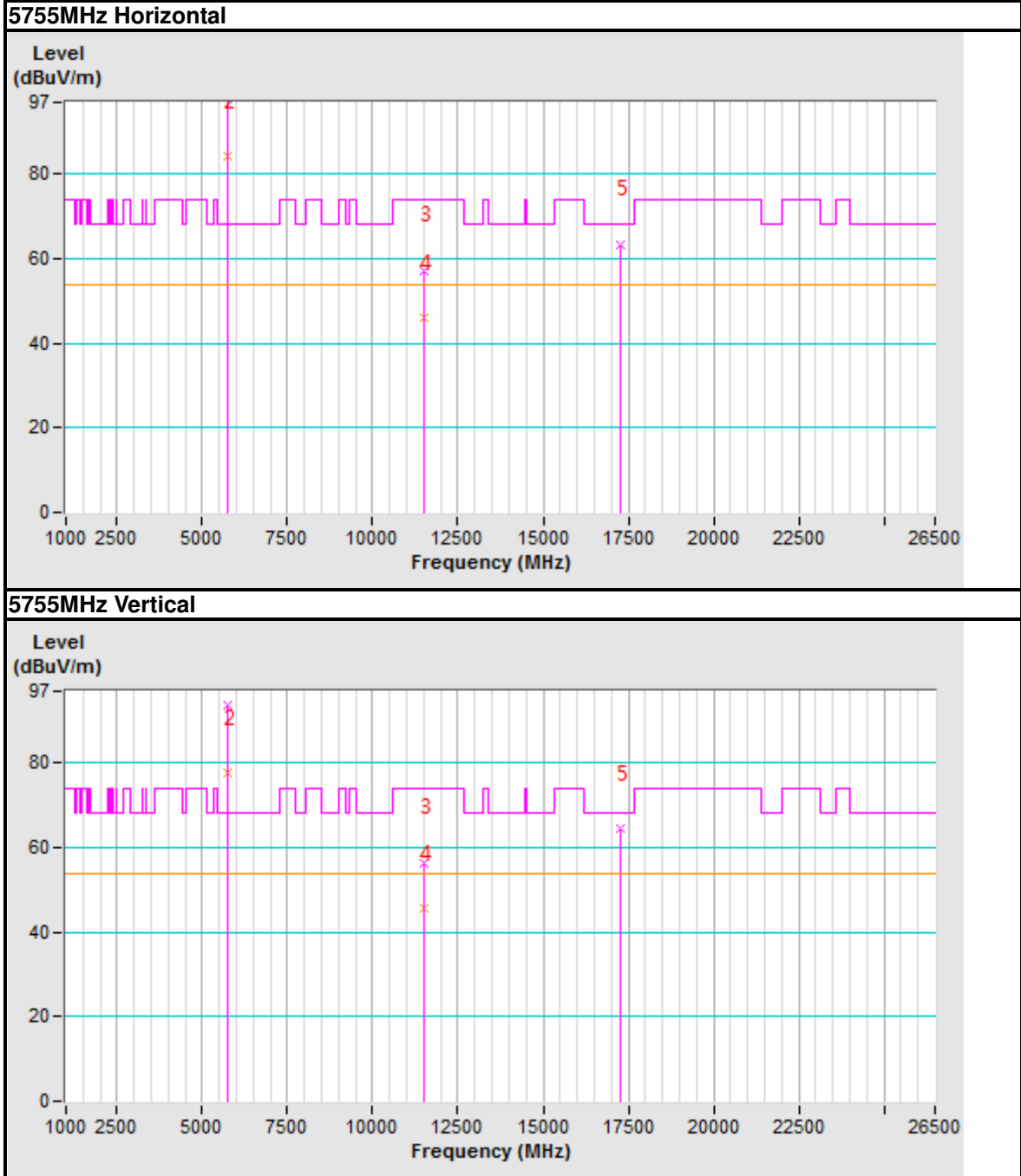
<b>ANTENNA POLARITY &amp; TEST DISTANCE: VERTICAL AT 3 M</b>								
<b>NO.</b>	<b>FREQ. (MHz)</b>	<b>EMISSION LEVEL (dBuV/m)</b>	<b>LIMIT (dBuV/m)</b>	<b>MARGIN (dB)</b>	<b>ANTENNA HEIGHT (m)</b>	<b>TABLE ANGLE (Degree)</b>	<b>RAW VALUE (dBuV)</b>	<b>CORRECTION FACTOR (dB/m)</b>
1	#5711.54	61.29 PK	108.43	-47.14	1.00 V	0	51.38	9.91
2	#5725.00	62.69 PK	122.20	-59.51	1.00 V	0	52.73	9.96
3	*5755.00	93.63 PK			1.00 V	0	83.56	10.07
4	*5755.00	77.80 AV			1.00 V	0	67.73	10.07
5	#5992.19	54.43 PK	68.20	-13.77	1.00 V	0	43.48	10.95
6	11510.00	56.47 PK	74.00	-17.53	1.00 V	0	35.94	20.53
7	11510.00	45.71 AV	54.00	-8.29	1.00 V	0	25.18	20.53
8	#17265.00	64.66 PK	68.20	-3.54	1.00 V	0	37.31	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 less than 20dB margin against the limit.
4. Margin value = Emission level – Limit value.
5. " \* ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

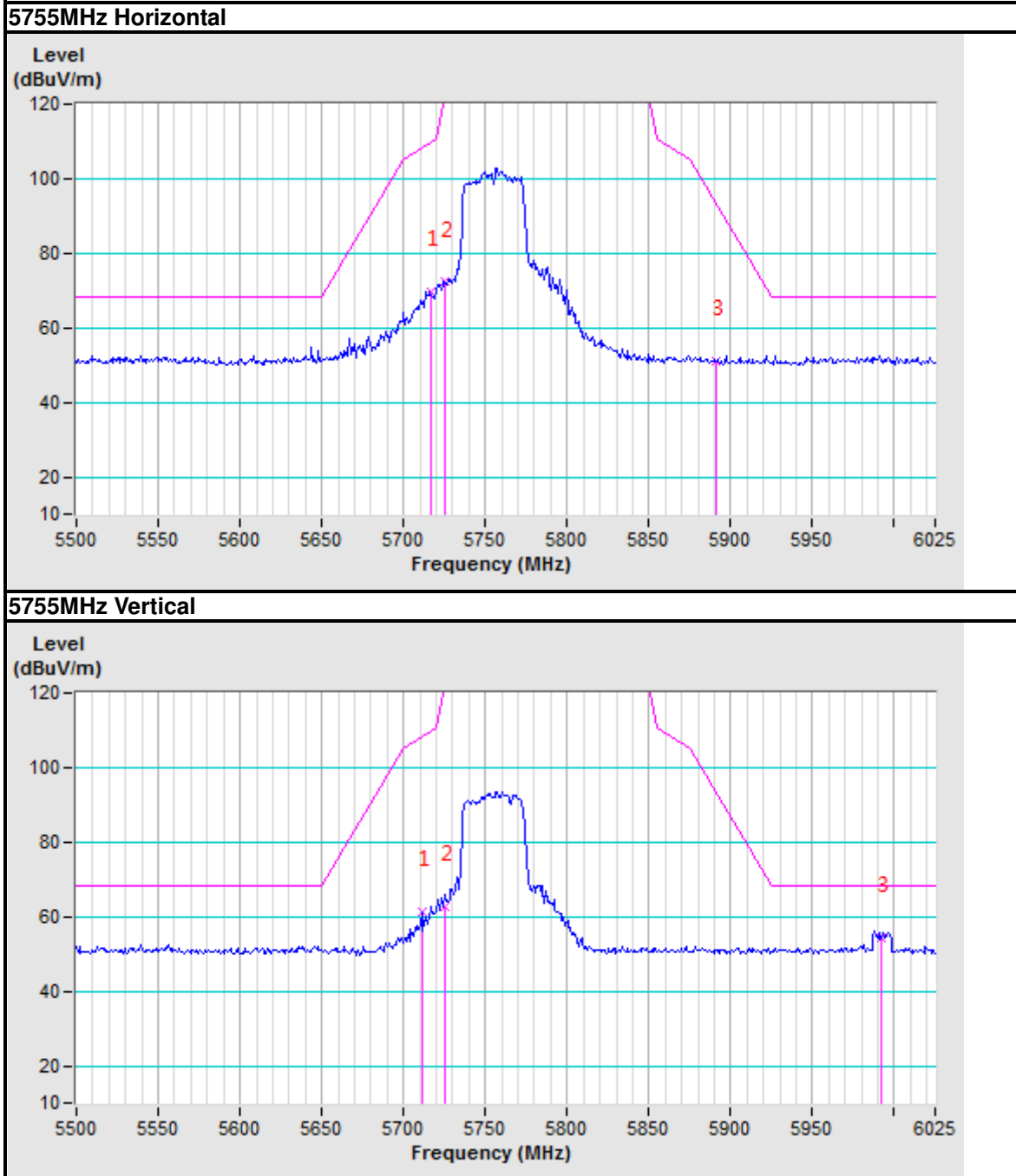


### Test Plot





### Band edge Plot





<b>CHANNEL</b>	TX Channel 159	<b>DETECTOR FUNCTION</b>	Peak (PK)
<b>FREQUENCY RANGE</b>	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	#5712.38	58.14 PK	108.67	-50.53	1.58 H	0	48.23	9.91
2	*5795.00	103.06 PK			1.00 H	55	92.84	10.22
3	*5795.00	85.71 AV			1.00 H	55	75.49	10.22
4	#5850.00	56.80 PK	122.20	-65.40	1.58 H	0	46.38	10.42
5	#5908.89	50.89 PK	80.08	-29.19	1.58 H	0	40.25	10.64
6	11590.00	55.57 PK	74.00	-18.43	1.00 H	0	34.86	20.71
7	11590.00	45.20 AV	54.00	-8.80	1.00 H	0	24.49	20.71
8	#17385.00	63.28 PK	68.20	-4.92	1.00 H	0	35.78	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	#5697.24	50.82 PK	103.16	-52.34	1.00 V	0	40.97	9.85
2	*5795.00	92.92 PK			1.00 V	5	82.70	10.22
3	*5795.00	75.60 AV			1.00 V	5	65.38	10.22
4	#5850.00	52.05 PK	122.20	-70.15	1.00 V	0	41.63	10.42
5	#5879.45	50.94 PK	101.90	-50.96	1.00 V	0	40.41	10.53
6	11590.00	56.69 PK	74.00	-17.31	1.00 V	0	35.98	20.71
7	11590.00	44.80 AV	54.00	-9.20	1.00 V	0	24.09	20.71
8	#17385.00	64.22 PK	68.20	-3.98	1.00 V	0	36.72	27.50

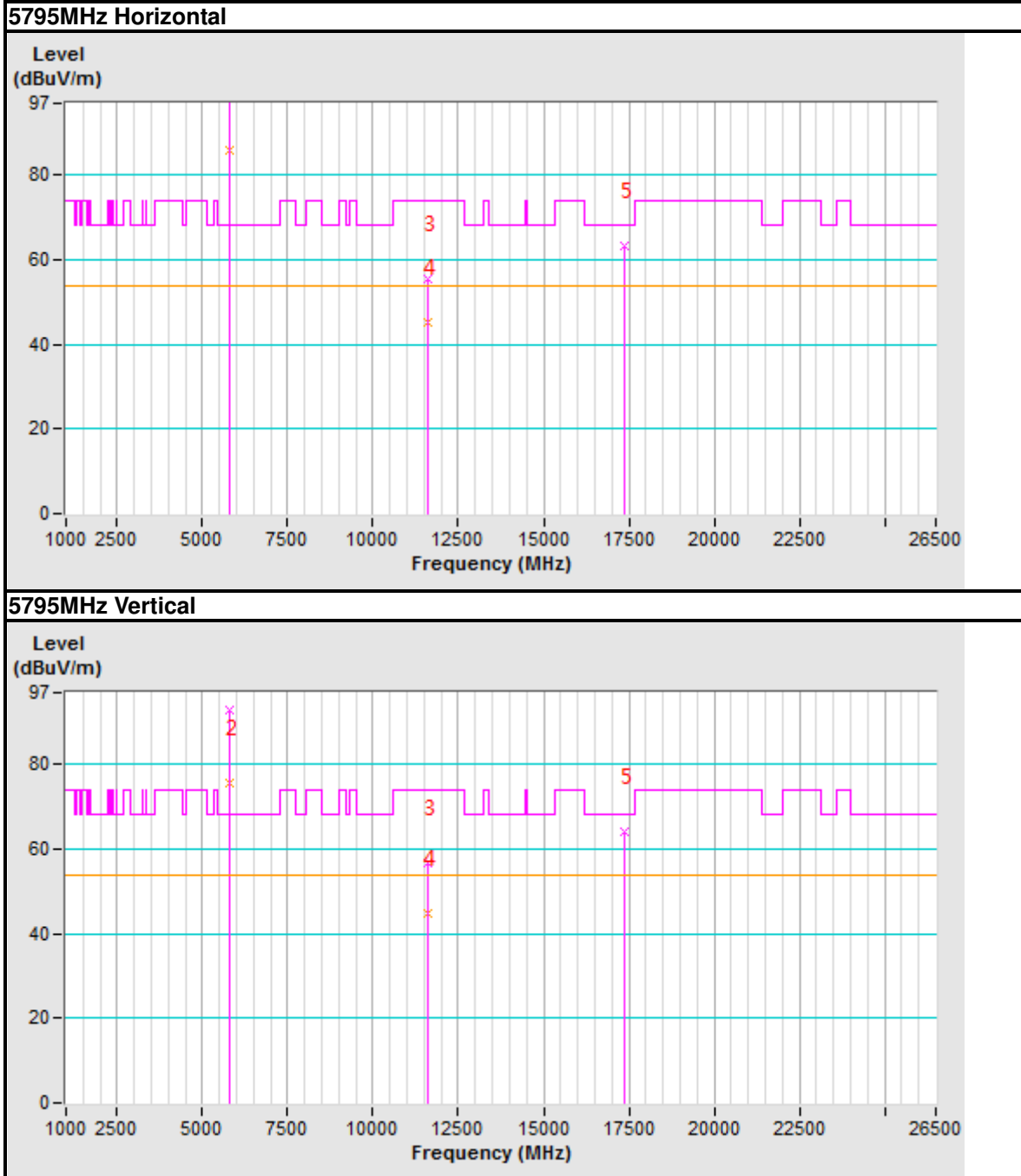
REMARKS:

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 less than 20dB margin against the limit.
4. Margin value = Emission level – Limit value.
5. " \* ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.



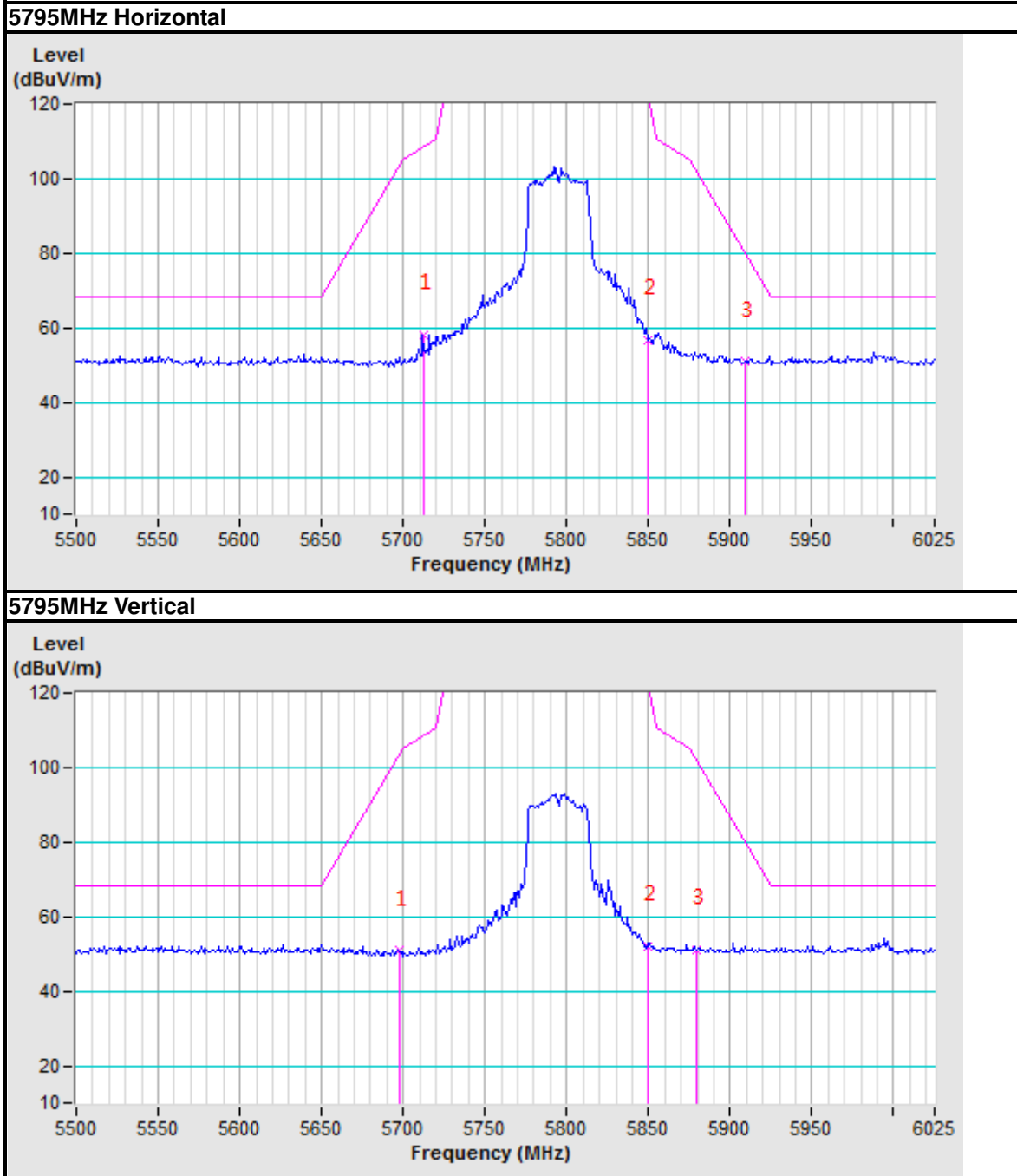


**Test Plot**





### Band edge Plot





<b>CHANNEL</b>	TX Channel 155	<b>DETECTOR FUNCTION</b>	Peak (PK)
<b>FREQUENCY RANGE</b>	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	#5725.00	50.68 PK	122.20	-71.52	1.60 H	0	40.72	9.96
2	*5775.00	92.43 PK			1.00 H	35	82.29	10.14
3	*5775.00	70.88 AV			1.00 H	35	60.74	10.14
4	#5850.00	50.47 PK	122.20	-71.73	1.60 H	0	40.05	10.42
5	#5857.57	51.36 PK	110.08	-58.72	1.60 H	0	40.91	10.45
6	11550.00	57.64 PK	74.00	-16.36	1.00 H	0	37.02	20.62
7	11550.00	45.66 AV	54.00	-8.34	1.00 H	0	25.04	20.62
8	#17325.00	63.32 PK	68.20	-4.88	1.00 H	0	35.89	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	50.31 PK	122.20	-71.89	1.00 V	0	40.35	9.96
2	*5775.00	82.22 PK			1.00 V	20	72.08	10.14
3	*5775.00	61.30 AV			1.00 V	20	51.16	10.14
4	#5850.00	50.91 PK	122.20	-71.29	1.00 V	0	40.49	10.42
5	#5987.98	55.79 PK	68.20	-12.41	1.00 V	0	44.85	10.94
6	11550.00	58.13 PK	74.00	-15.87	1.00 V	0	37.51	20.62
7	11550.00	46.30 AV	54.00	-7.70	1.00 V	0	25.68	20.62
8	#17325.00	63.65 PK	68.20	-4.55	1.00 V	0	36.22	27.43

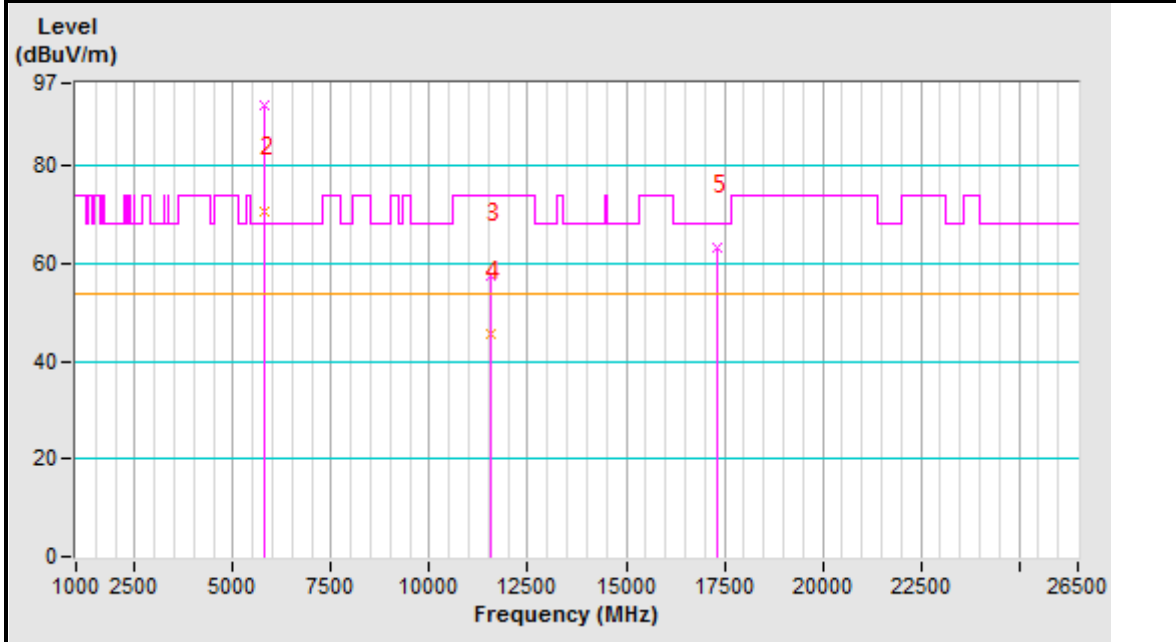
**REMARKS:**

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 less than 20dB margin against the limit.
4. Margin value = Emission level – Limit value.
5. " \* ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

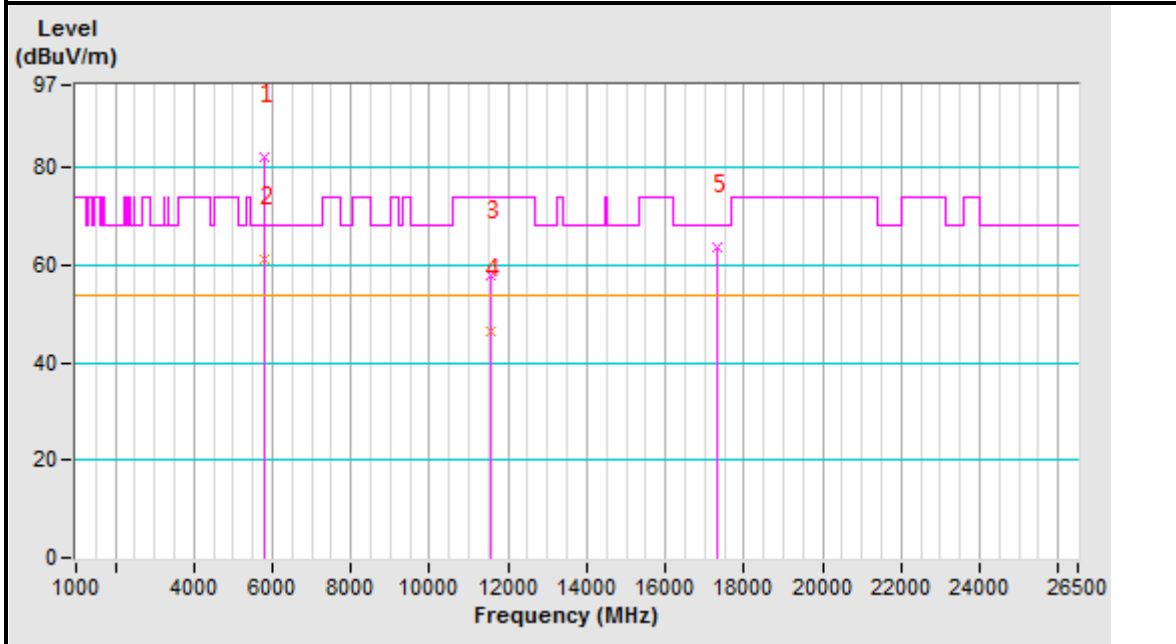


### Test Plot

#### 5775MHz Horizontal



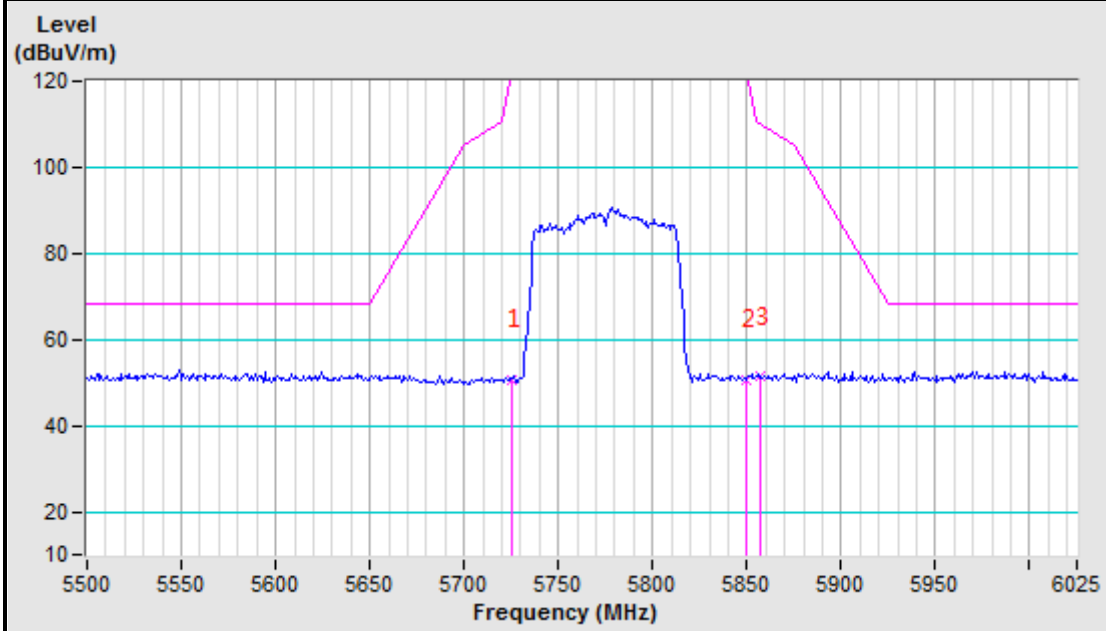
#### 5775MHz Vertical



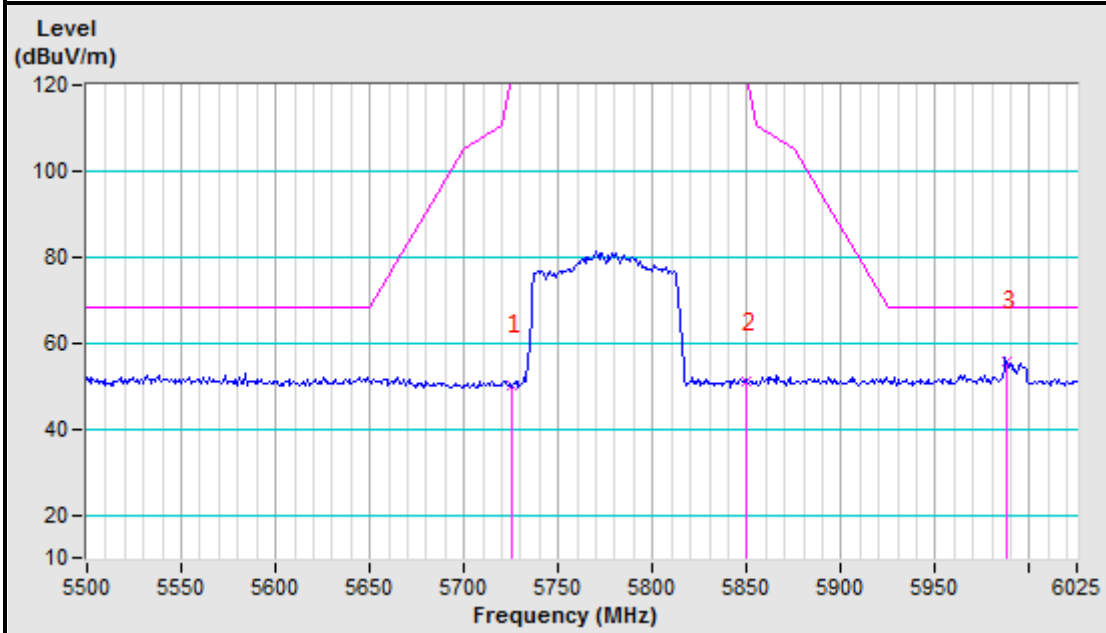


Band edge Plot

5795MHz Horizontal



5795MHz Vertical





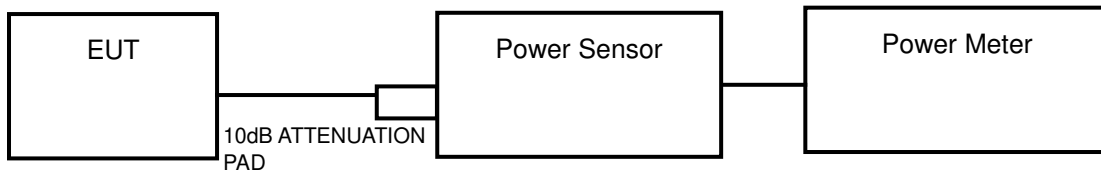
### 3.2 TRANSMIT POWER MEASUREMENT

#### 3.2.1 LIMITS OF TRANSMIT POWER MEASUREMENT

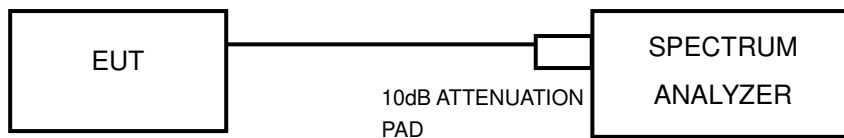
Operation Band	EUT Category		LIMIT
U-NII-1		Outdoor Access Point	1 Watt (30 dBm) (Max. e.i.r.p ≤ 125mW(21 dBm) at any elevation angle above 30 degrees as measured from the horizon)
		Fixed point-to-point Access Point	1 Watt (30 dBm)
		Indoor Access Point	1 Watt (30 dBm)
	√	Mobile and Portable client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

#### 3.2.2 TEST SETUP



#### FOR 6/26dB BANDWIDTH



**3.2.3 TEST INSTRUMENTS**

Equipment	Manufacturer	Model No.	Serial No.	Next Cal.
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	Sep. 17,21
Signal and Spectrum Analyzer	Rohde&Schwarz	FSV40	101094	Mar. 17,21
Signal Generator	Agilent	N5183A	MY50140980	Sep. 18,21
MXG-B RF Vector Signal Generator	Keysight	N5182B	MY56200288	Sep. 11,21
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.

**3.2.4 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)  $\geq 3$  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.

### 3.2.5 DEVIATION FROM TEST STANDARD

No deviation.

### 3.2.6 EUT OPERATING CONDITIONS

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





### 3.2.7 TEST RESULTS

**OUTPUT POWER:**

802.11a

Chain 0

CHANNEL NUMBER	FREQ. (MHz)	AVG. CONDUCTED POWER (dBm)	AVG. CONDUCTED POWER (mW)	LIMIT (dBm)	PASS /FAIL
36	5180	10.89	12.274	24.00	PASS
40	5200	10.92	12.359	24.00	PASS
48	5240	10.91	12.331	24.00	PASS
52	5260	15.49	35.400	24.00	PASS
60	5300	15.36	34.356	24.00	PASS
64	5320	15.78	37.844	24.00	PASS
100	5500	14.67	29.309	24.00	PASS
116	5580	14.49	28.119	24.00	PASS
140	5700	15.72	37.325	24.00	PASS
149	5745	12.44	17.539	30.00	PASS
157	5785	12.78	18.967	30.00	PASS
165	5825	15.53	35.727	30.00	PASS

**For Band 2~Band 3: Limit = 11dBm+10log(26 BW)=11+10log(20.09)=24.03dBm > 24dBm**

20.09 Calculated results correspond to the worst limiting results.



**Chain 1**

<b>CHANNEL NUMBER</b>	<b>FREQ. (MHz)</b>	<b>AVG. CONDUCTED POWER (dBm)</b>	<b>AVG. CONDUCTED POWER (mW)</b>	<b>LIMIT (dBm)</b>	<b>PASS /FAIL</b>
<b>36</b>	5180	11.21	13.213	24.00	PASS
<b>40</b>	5200	11.20	13.183	24.00	PASS
<b>48</b>	5240	11.06	12.764	24.00	PASS
<b>52</b>	5260	16.42	43.853	24.00	PASS
<b>60</b>	5300	16.23	41.976	24.00	PASS
<b>64</b>	5320	16.82	48.084	24.00	PASS
<b>100</b>	5500	15.46	35.156	24.00	PASS
<b>116</b>	5580	14.42	27.669	24.00	PASS
<b>140</b>	5700	17.56	57.016	24.00	PASS
<b>149</b>	5745	12.67	18.493	30.00	PASS
<b>157</b>	5785	12.87	19.364	30.00	PASS
<b>165</b>	5825	12.78	18.967	30.00	PASS

**For Band 2~Band 3: Limit = 11dBm+10log(26 BW)=11+10log(20.08)=24.03dBm > 24dBm**

20.08 Calculated results correspond to the worst limiting results.

**802.11n (20MHz)****Chain 0**

<b>CHANNEL NUMBER</b>	<b>FREQ. (MHz)</b>	<b>AVG. CONDUCTED POWER (dBm)</b>	<b>AVG. CONDUCTED POWER (mW)</b>	<b>LIMIT (dBm)</b>	<b>PASS /FAIL</b>
36	5180	10.52	11.272	24.00	PASS
40	5200	11.68	14.723	24.00	PASS
48	5240	11.73	14.894	24.00	PASS
52	5260	14.45	27.861	24.00	PASS
60	5300	15.02	31.769	24.00	PASS
64	5320	15.67	36.898	24.00	PASS
100	5500	14.43	27.733	24.00	PASS
116	5580	14.50	28.184	24.00	PASS
140	5700	15.60	36.308	24.00	PASS
149	5745	14.87	30.690	30.00	PASS
157	5785	15.71	37.239	30.00	PASS
165	5825	15.05	31.989	30.00	PASS

**For Band 2~Band 3: Limit = 11dBm+10log(26 BW)=11+10log(20.46)=24.11dBm > 24dBm**

20.09 Calculated results correspond to the worst limiting results.



**Chain 1**

<b>CHANNEL NUMBER</b>	<b>FREQ. (MHz)</b>	<b>AVG. CONDUCTED POWER (dBm)</b>	<b>AVG. CONDUCTED POWER (mW)</b>	<b>LIMIT (dBm)</b>	<b>PASS /FAIL</b>
<b>36</b>	5180	11.87	15.382	24.00	PASS
<b>40</b>	5200	11.92	15.560	24.00	PASS
<b>48</b>	5240	11.85	15.311	24.00	PASS
<b>52</b>	5260	15.34	34.198	24.00	PASS
<b>60</b>	5300	16.04	40.179	24.00	PASS
<b>64</b>	5320	16.72	46.989	24.00	PASS
<b>100</b>	5500	16.11	40.832	24.00	PASS
<b>116</b>	5580	15.45	35.075	24.00	PASS
<b>140</b>	5700	16.39	43.551	24.00	PASS
<b>149</b>	5745	11.59	14.421	30.00	PASS
<b>157</b>	5785	11.82	15.205	30.00	PASS
<b>165</b>	5825	10.81	12.050	30.00	PASS

**For Band 2~Band 3: Limit = 11dBm+10log(26 BW)=11+10log(20.09)=24.03dBm > 24dBm**

20.08 Calculated results correspond to the worst limiting results.



802.11n (40MHz)

Chain 0

CHANNEL NUMBER	FREQ. (MHz)	AVG. CONDUCTED POWER (dBm)	AVG. CONDUCTED POWER (mW)	LIMIT (dBm)	PASS /FAIL
38	5190	13.82	24.099	24.00	PASS
46	5230	13.79	23.933	24.00	PASS
54	5270	15.37	34.435	24.00	PASS
62	5310	15.79	37.931	24.00	PASS
102	5510	13.77	23.823	24.00	PASS
118	5590	13.67	23.281	24.00	PASS
134	5670	14.72	29.648	24.00	PASS
151	5755	13.53	22.542	24.00	PASS
159	5795	13.62	23.014	24.00	PASS

**For Band 2~Band 3: Limit = 11dBm+10log(26 BW)=11+10log(41.56)=27.19dBm > 24dBm**

20.09 Calculated results correspond to the worst limiting results.



**Chain 1**

<b>CHANNEL NUMBER</b>	<b>FREQ. (MHz)</b>	<b>AVG. CONDUCTED POWER (dBm)</b>	<b>AVG. CONDUCTED POWER (mW)</b>	<b>LIMIT (dBm)</b>	<b>PASS /FAIL</b>
<b>38</b>	5190	13.88	24.434	24.00	PASS
<b>46</b>	5230	13.95	24.831	24.00	PASS
<b>54</b>	5270	16.42	43.853	24.00	PASS
<b>62</b>	5310	17.05	50.699	24.00	PASS
<b>102</b>	5510	15.44	34.995	24.00	PASS
<b>118</b>	5590	14.52	28.314	24.00	PASS
<b>134</b>	5670	16.61	45.814	24.00	PASS
<b>151</b>	5755	13.59	22.856	24.00	PASS
<b>159</b>	5795	13.67	23.281	24.00	PASS

**For Band 2~Band 3: Limit = 11dBm+10log(26 BW)=11+10log(41.35)=27.16dBm > 24dBm**

20.08 Calculated results correspond to the worst limiting results.



**802.11ac (80MHz)**

**Chain 0**

CHANNEL NUMBER	FREQ. (MHz)	AVG. CONDUCTED POWER (dBm)	AVG. CONDUCTED POWER (mW)	LIMIT (dBm)	PASS /FAIL
42	5210	10.36	10.864	24.00	PASS
58	5290	10.78	11.967	24.00	PASS
106	5530	6.35	4.315	24.00	PASS
122	5610	12.01	15.885	24.00	PASS
155	5775	12.65	18.408	24.00	PASS

**For Band 2~Band 3: Limit = 11dBm+10log(26 BW)=11+10log(81.73)=30.12dBm > 24dBm**

20.09 Calculated results correspond to the worst limiting results.

**Chain 1**

CHANNEL NUMBER	FREQ. (MHz)	AVG. CONDUCTED POWER (dBm)	AVG. CONDUCTED POWER (mW)	LIMIT (dBm)	PASS /FAIL
42	5210	8.95	7.852	24.00	PASS
58	5290	12.72	18.707	24.00	PASS
106	5530	10.34	10.814	24.00	PASS
122	5610	9.36	8.630	24.00	PASS
155	5775	9.41	8.730	24.00	PASS

**For Band 2~Band 3: Limit = 11dBm+10log(26 BW)=11+10log(81.63)=30.12dBm > 24dBm**

81.63 Calculated results correspond to the worst limiting results.



**26dB BANDWIDTH:**

**802.11a**

Channel Number	Freq. (MHz)	26dB DOWN BANDWIDTH (MHz)		PASS /FAIL
		Chain 0	Chain 1	
36	5180	20.16	20.11	PASS
40	5200	20.16	20.18	PASS
48	5240	20.18	20.18	PASS
52	5260	20.23	20.08	PASS
60	5300	20.27	20.16	PASS
64	5320	20.17	20.03	PASS
100	5500	20.16	20.12	PASS
132	5660	20.09	20.17	PASS
140	5700	20.28	20.24	PASS

**802.11n (20MHz)**

Channel Number	Freq. (MHz)	26dB DOWN BANDWIDTH (MHz)		PASS /FAIL
		Chain 0	Chain 1	
36	5180	20.49	20.16	PASS
40	5200	20.45	20.12	PASS
48	5240	20.47	20.11	PASS
52	5260	20.47	20.12	PASS
60	5300	20.50	20.13	PASS
64	5320	20.46	20.11	PASS
100	5500	20.54	20.11	PASS
132	5660	20.53	20.09	PASS
140	5700	20.50	20.11	PASS





**802.11n (40MHz)**

Channel Number	Freq. (MHz)	26dB DOWN BANDWIDTH (MHz)		PASS /FAIL
		Chain 0	Chain 1	
38	5190	41.60	41.49	PASS
46	5230	41.54	41.32	PASS
54	5270	41.58	41.42	PASS
62	5310	41.58	41.35	PASS
102	5510	41.77	41.47	PASS
110	5550	41.60	41.47	PASS
134	5670	41.56	41.49	PASS

**802.11ac (80MHz)**

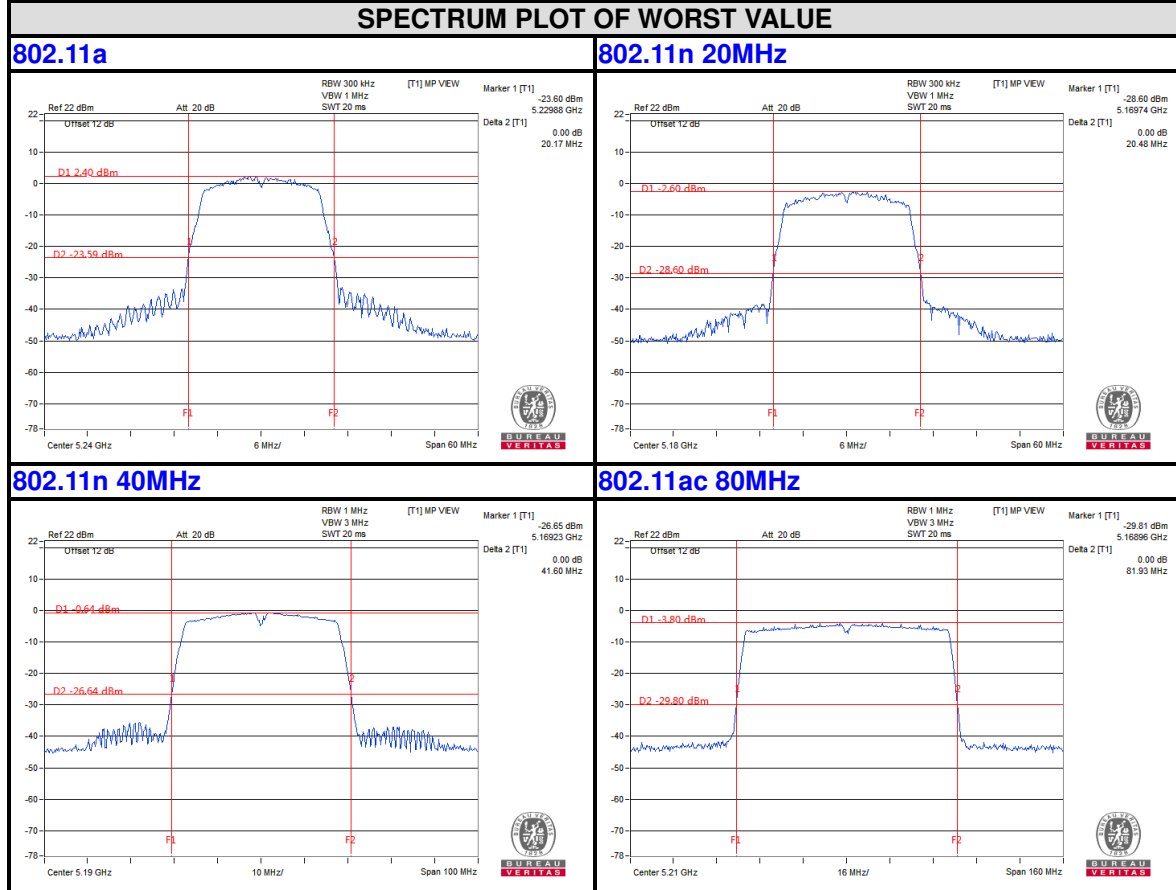
Channel Number	Freq. (MHz)	26dB DOWN BANDWIDTH (MHz)		PASS /FAIL
		Chain 0	Chain 1	
42	5210	81.94	82.20	PASS
58	5290	81.73	81.97	PASS
106	5530	82.15	81.63	PASS
122	5610	82.07	82.04	PASS



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**26dB bandwidth Test Plot  
For 5150-5250MHz worst plot  
Chain 0**



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523942. People's Republic of China.

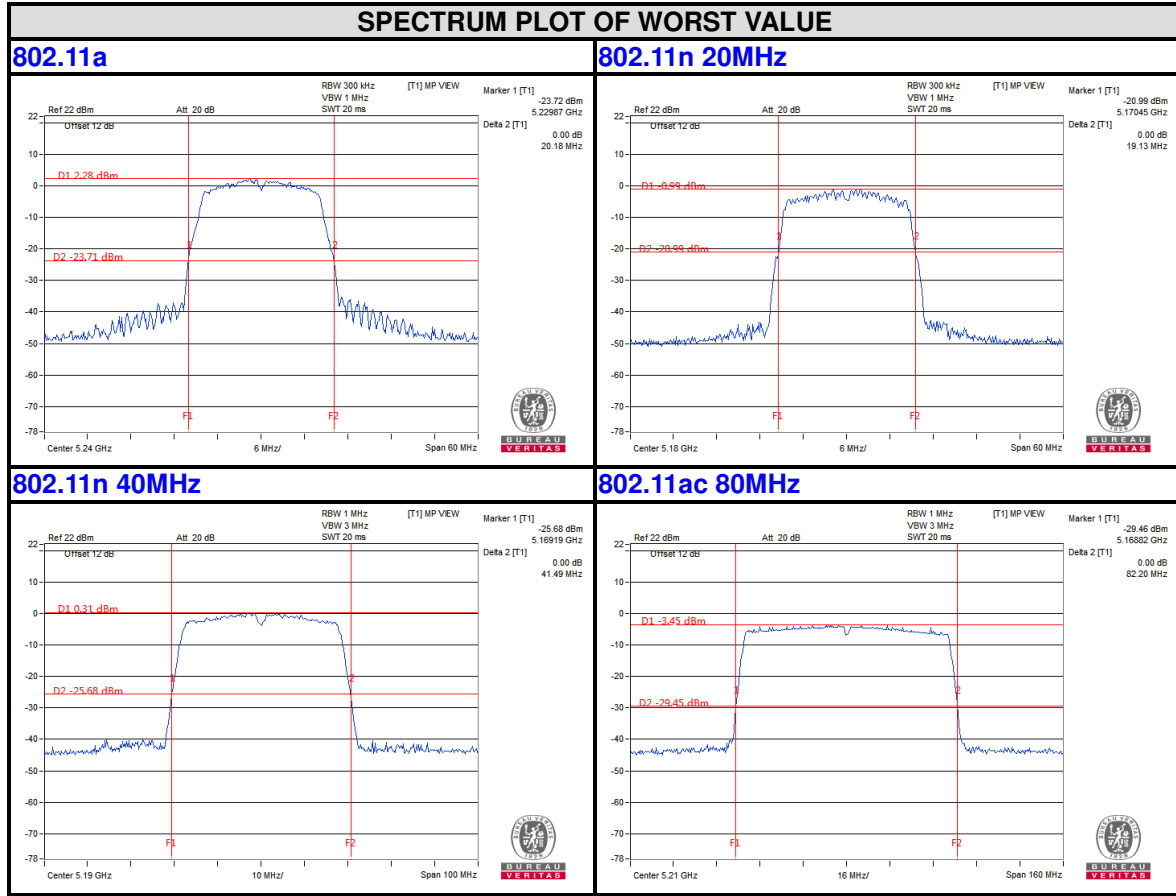
Tel: +86 769 8998 2098  
Fax: +86 769 8593 1080  
Email: [customerservice.dg@cn.bureauveritas.com](mailto:customerservice.dg@cn.bureauveritas.com)



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Chain 1



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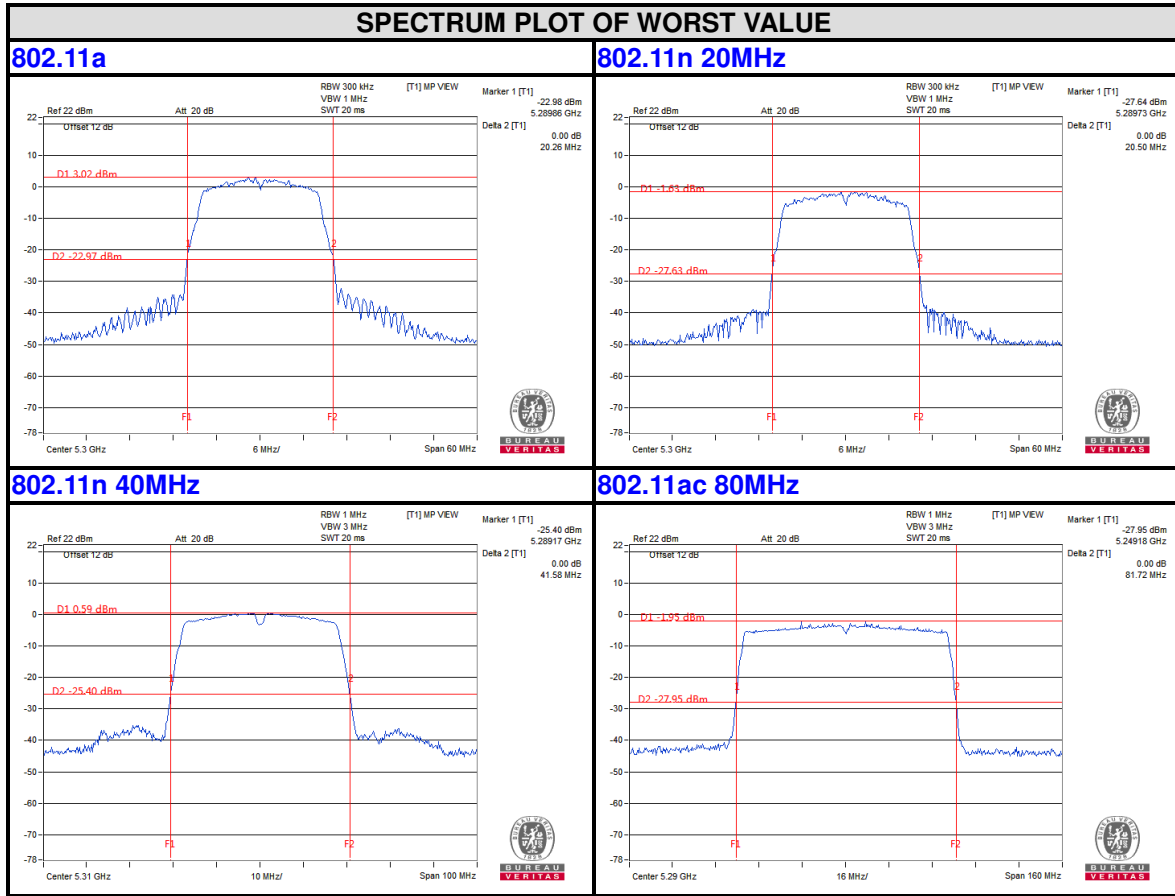
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For 5250-5350MHz  
Chain 0



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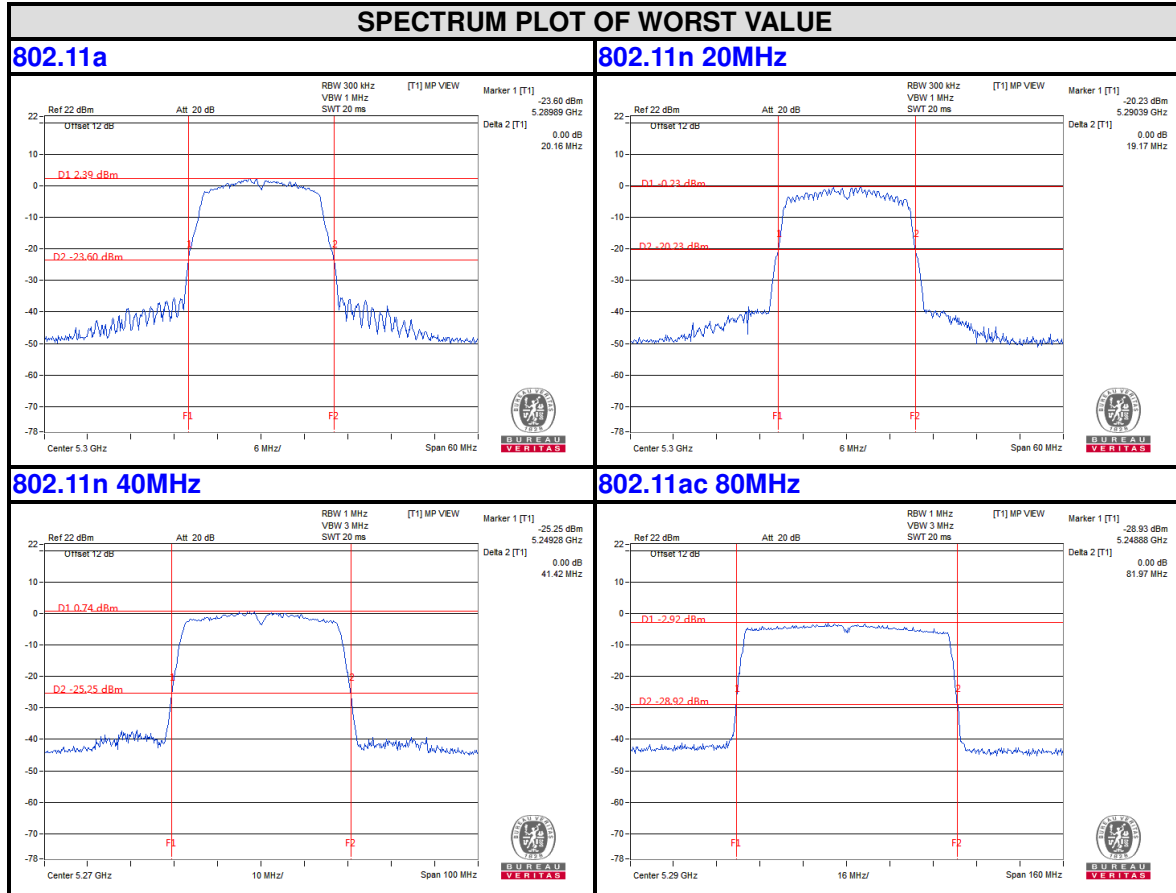
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Chain 1



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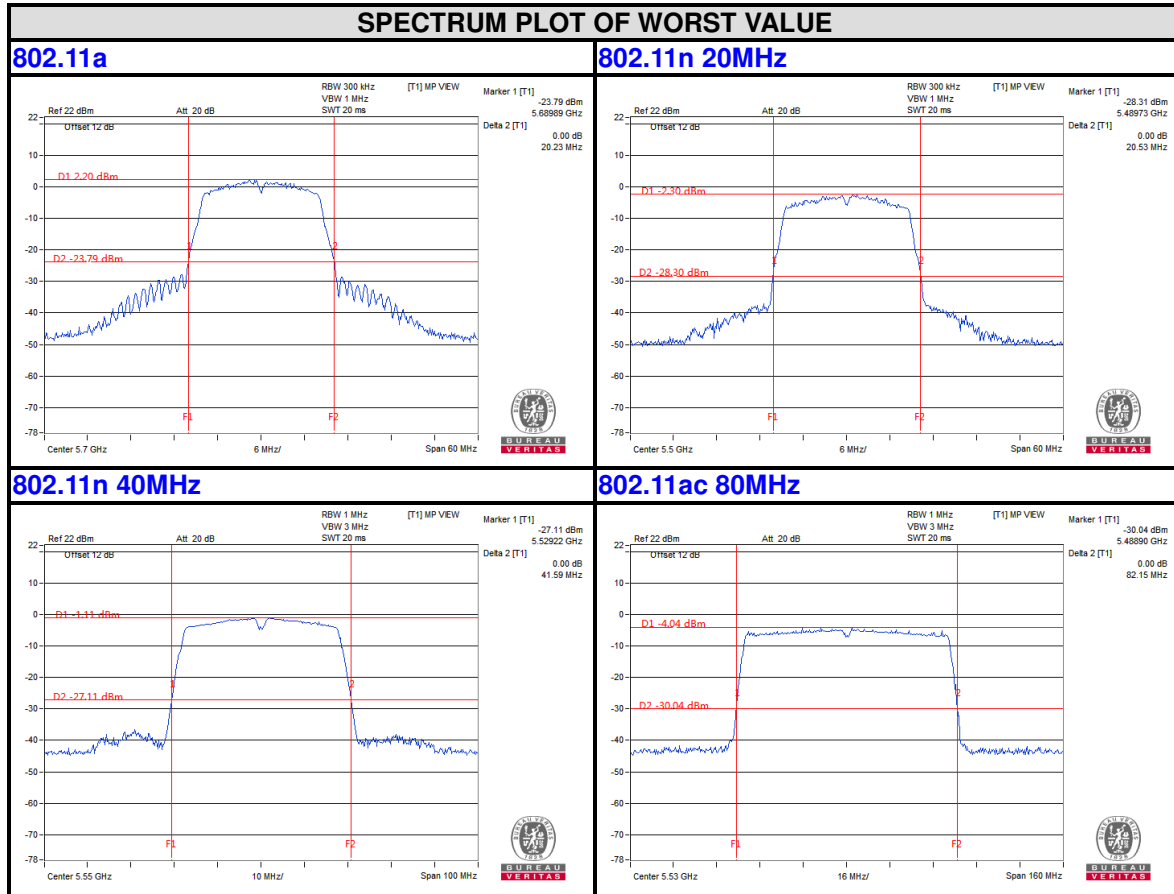


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Test Report No.: RF200910N001-4

For 5470-5725MHz

Chain 0



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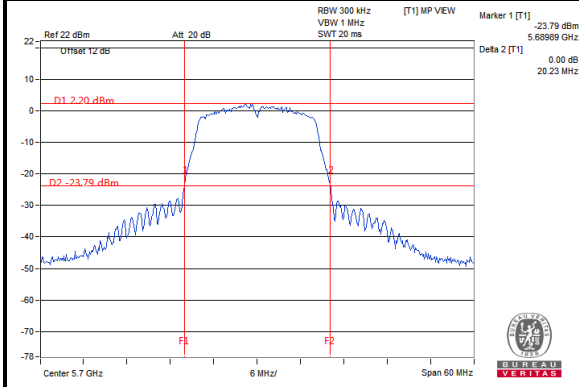
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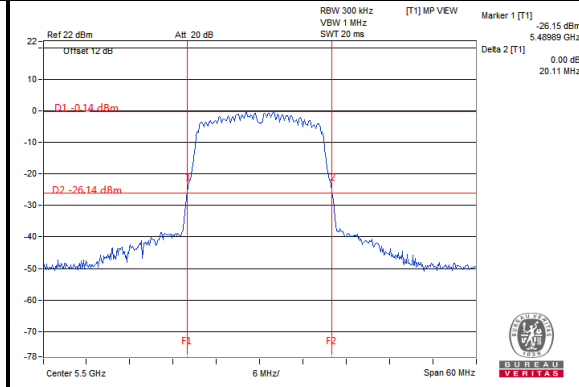
Chain 1

SPECTRUM PLOT OF WORST VALUE

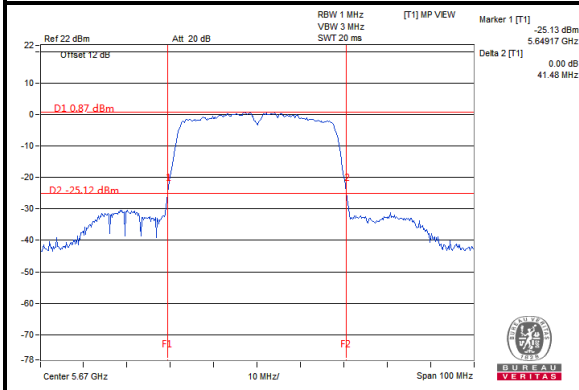
802.11a



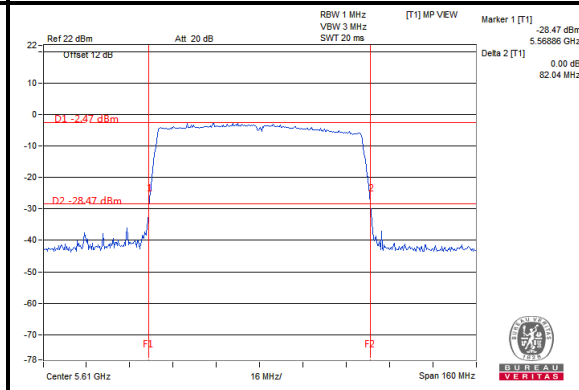
802.11n 20MHz



802.11n 40MHz



802.11ac 80MHz



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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---**