FCC Test Report

FCC ID：2AM8R-D215

(Part 22)

Client Information:

Applicant: Netradyne Inc

Applicant add.: 9191 Towne Centre Drive Suite 200, San Diego, CA 92122

Product Information:

EUT Name: Driveri

Model No.: D-215

Brand Name: netradyne

Standards: FCC PART 22

Prepared By:

AA Electro Magnetic Test Laboratory Private Limited

Add.: Plot No 174, Udyog Vihar - Phase 4, Sector 18,
Gurgaon, Haryana, India

Date of Receipt:	Sep. 01, 2021	Date of Test:	Oct. 05~ Oct. 07, 2021
Date of Issue:	Oct. 22, 2021	Test Result:	Pass

Declaration of Conformity: Declaration of conformity of the results is based as per the standard limits

This device described above has been tested by AA Electro Magnetic Test Laboratory Private Limited, and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

*This test report must not be used by the client to claim product endorsement by any agency of the U.S. government.

Prepared By: (+ signature) Abhinav Kumar

Reviewed & Approved by: (+ signature)

Dr. Lenin Raja (Authorized Representative) (/ lenin83/)

Plot No.174, Udyog Vihar Phase 4, Sector -18, Gurgaon -122016, Haryana, India
Contact:0124-4235350, 4145343; e-mail: info @aaemtlabs.com; Website: www.aaemtlabs.com

1 Contents

Plot No.174, Udyog Vihar Phase 4, Sector -18, Gurgaon -122016, Haryana, India
Contact:0124-4235350, 4145343; e-mail: info @aaemtlabs.com; Website: www.aaemtlabs.com

2 Test Summary

2.1 Compliance with FCC Part 22 subpart H

TEST	TEST REQUIREMENT	RESULT	REMARK
Effective Radiated Power	2.1046 22.913 (a)	PASS	Meet the requirement of limit.
Frequency Stability	2.1055 22.355	PASS	Meet the requirement of limit.
Occupied Bandwidth	2.1049 22.917b	PASS	Meet the requirement of limit.
Peak to average ratio	----	PASS	Meet the requirement of limit.
Band Edge Measurements	22.917	PASS	Meet the requirement of limit.
Conducted Spurious Emissions	2.1051 22.917	PASS	Meet the requirement of limit.
Radiated Spurious Emissions	2.1053 22.917	PASS	Meet the requirement of limit.

Plot No.174, Udyog Vihar Phase 4, Sector -18, Gurgaon -122016, Haryana, India
Contact:0124-4235350, 4145343; e-mail: info @aaemtlabs.com; Website: www.aaemtlabs.com

2.2 Measurement Uncertainty

All measurements involve certain levels of uncertainties, the following measurements uncertainty Levels have estimated based on standards, the maximum value of the uncertainty as below:

No.	Item	Uncertainty
1	Conducted Emission Test	2.82dB
2	Radiated Emission Test	2.79dB

2.3 Test Location

All tests were performed at:

AA Electro Magnetic Test Laboratory Private Limited

Plot No 174, Udyog Vihar - Phase 4, Sector 18, Gurgaon, Haryana, India

Tel.: +91-0124-4235350

3 Test Facility

The test facility is recognized, certified or accredited by the following organizations:

ILAC / NABL Accreditation No.: TC-8597

Three 3m Semi-Anechoic Chamber, 1 full-Anechoic chamber and 2 Shielding Rooms of AA Electro Magnetic Test Laboratory Private Limited have been registered by National Accreditation Board for Testing and Calibration Laboratories (NABL).

ILAC –A2LA Accreditation No.: 5593.01

Three 3m Semi-Anechoic Chamber, 1 full-Anechoic chamber and 2 Shielding Rooms of AA Electro Magnetic Test Laboratory Private Limited have been registered American Association of Laboratory Accreditation (A2LA.)

FCC- Recognition No.: 137777

Three 3m Semi-Anechoic Chamber, 1 full-Anechoic chamber and 2 Shielding Rooms of AA Electro Magnetic Test Laboratory Private Limited have been registered by Federal Communications Commission (FCC).

ISED Recognition No.: 26046

Three 3m Semi-Anechoic Chamber, 1 full-Anechoic chamber and 2 Shielding Rooms of AA Electro Magnetic Test Laboratory Private Limited have been registered by Institute for Social and Economic Development.(ISED)

VCCI- Registration No: 4053

Three 3m Semi-Anechoic Chamber, 1 full-Anechoic chamber and 2 Shielding Rooms of AA Electro Magnetic Test Laboratory Private Limited have been registered by Voluntary Control Council for Interference.(VCCI)

TEC Designation No.: IND063

Three 3m Semi-Anechoic Chamber, 1 full-Anechoic chamber and 2 Shielding Rooms of AA Electro Magnetic Test Laboratory Private Limited have been registered by Telecommunication Engineering (TEC) Center

BIS Recognition No: 816586

BIS recognized as per CRS scheme for IT electronics, LED control gears, Lamp, Inverter / UPS are recognized as per LRS 2020

3.1 Deviation from standard

None

3.2 Abnormalities from standard conditions

None

Plot No.174, Udyog Vihar Phase 4, Sector -18, Gurgaon -122016, Haryana, India
Contact:0124-4235350, 4145343; e-mail: info @aaemtlabs.com; Website: www.aaemtlabs.com

4 General Information

4.1 General Description of EUT

Manufacturer:	Netradyne Inc.	
Manufacturer Address:	9191 Towne Centre Drive, Suite 200, San Diego, CA 92122	
EUT Name:	Driveri	
Model No:	D-215	
Brand Name:	netradyne	
Derivative model No.:	N/A	
Frequency Range:	LTE Band 5 Channel Bandwidth: 10MHz	829MHz ~ 844MHz
Modulation Technology:	LTE Band 5: QPSK	
Antenna Gain(dBi):	2.5dBi	
H/W No.:	501-1-01549 A2	
S/W No.:	4.5.8.rc.1	
Power Supply Range:	Input : 12VDC, 3A	
Note:		
1.	For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.	

Plot No.174, Udyog Vihar Phase 4, Sector -18, Gurgaon -122016, Haryana, India
Contact:0124-4235350, 4145343; e-mail: info @aaemtlabs.com; Website: www.aaemtlabs.com

4.2 EUT channels and frequencies list:

LTE BAND 2

EUT Configure Mode	Test Item	Available Channel	Tested Channel	Channel Bandwidth	Modulation
-	EIRP	20450 to 20600	20450, 20525, 20600	10MHz	QPSK
-	Frequency Stability	20450 to 20600	20450, 20525, 20600	10MHz	QPSK
-	Occupied Bandwidth	20450 to 20600	20450, 20525, 20600	10MHz	QPSK
-	Peak to Average Ratio	20450 to 20600	20450, 20525, 20600	10MHz	QPSK

EUT Configur	Test Item	Available Channel	Tested Channel	Channel Bandwidth	Modulation
-	Band Edge	20450, 20525, 20600	20450	10MHz	QPSK
			20600	10MHz	QPSK
	Conducted Spurious	20450, 20525, 20600	20450, 20525, 20600	10MHz	QPSK
-	Radiated Spurious	20450, 20525, 20600	20450, 20525, 20600	10MHz	QPSK

Plot No.174, Udyog Vihar Phase 4, Sector -18, Gurgaon -122016, Haryana, India
Contact:0124-4235350, 4145343; e-mail: info @aaemtlabs.com; Website: www.aaemtlabs.com

4.3 EUT Peripheral List

No.	Equipment	Manufacturer	FCC ID	Model No.	Serial No.	Power cord	Remark
1.	Power Adaptor	Netradyne Inc.	N/A	D-210-AD3	N/A	N/A	N/A

4.4 Test Peripheral List

No.	Equipment	Manufacturer	EMC Compliance	Model No.	Serial No.	Power cord	signal cable
1	DC Power Supply	JUNKE	N/A	JK15040K	20181126-43	2m Unshielded Cable	N/A
2.	Laptop	DELL	N/A	Latitude E7240	6SJ2T02	2m unshielded	N/A

Plot No.174, Udyog Vihar Phase 4, Sector -18, Gurgaon -122016, Haryana, India
Contact:0124-4235350, 4145343; e-mail: info @aaemtlabs.com; Website: www.aaemtlabs.com

5 Equipment's List for All Test Items

No	Test Equipment	Manufacturer	Model No	Serial No	Cal. Date	Cal. Due Date
1	EMI TEST Receiver	Spectrum Analyzer	FSP40	101163	2020/12/11	2022/12/10
2	Loop antenna	DAZE Beijing	ZN30900C	18052	2020/01/29	2022/01/28
3	Hi power horn antenna	DAZE Beijing	ZN30700	18012	2020/01/30	2022/01/29
4	Horn antenna	DAZE Beijing	ZN30702	18006	2020/01/30	2022/01/29
5	Horn antenna	DAZE Beijing	ZN30703	18005	2020/01/30	2022/01/29
6	Preamplifier	KELIANDA	LNA-0009295	-	2021/01/13	2022/01/13
7	Preamplifier	KELIANDA	CF-00218	-	2021/01/13	2022/01/13
8	Bi conical Antenna	DAZE Beijing	ZN30505C	17038	2020/01/28	2022/01/27
9	EMI-RECEIVER	Schwarzbeck	FCKL	1528194	2021/01/13	2022/01/13
10	Spectrum Analyzer	ADVANTEST	R3361	-	2021/01/13	2022/01/13
11	LISN	Kyoritsu	KNW-407	8-1789-5	2021/01/13	2022/01/13
12	Network-LISN	Schwarzbeck	NNBM8125	81251314	2021/01/13	2022/01/13
13	Network-LISN	Schwarzbeck	NNBM8125	81251315	2021/01/13	2022/01/13
14	PULSELIMITER	Rohde and Schwarz	ESH3-Z2	100681	2021/05/12	2022/05/11
15	50ΩCoaxialSwitch	DAIWA	1565157	-	2021/05/12	2022/05/11
16	50ΩCoaxialSwitch	-	-	-	2021/05/12	2022/05/11
17	Wireless signal power meter	DARE!!	RPR3006W	RFSW190220	2021/01/13	2022/01/13
18	Signal Generator	KEYSIGHT	N5181A	512071	2021/01/13	2022/01/13

Plot No.174, Udyog Vihar Phase 4, Sector -18, Gurgaon -122016, Haryana, India
Contact:0124-4235350, 4145343; e-mail: info @aaemtlabs.com; Website: www.aaemtlabs.com

19	RF Vector Signal Generator	Keysight	N5182B	512094	2021/01/13	2022/01/13
20	Spectrum analyzer	R&S	FSV-40N	101385	2021/01/13	2022/01/13
21	Radio Communication Tester	R&S	CMW 500	124589	2021/05/14	2022/05/13
22	Signal Generator	R&S	SMP02	837017/004 836593/005	2021/05/14	2022/05/13
23	DC Power Supply	Guanker	JK15040K	TNC/ET/C/001/15	2020/02/02	2022/02/01
24	Pro. Temp & Humi. chamber	MENTEK	MHP-150-1C	MAA08112501	2020/02/02	2022/02/01
25	Attenuators	AGILENT	8494B	-	-	-
26	Attenuators	AGILENT	8495B	-	-	-

Plot No.174, Udyog Vihar Phase 4, Sector -18, Gurgaon -122016, Haryana, India
Contact:0124-4235350, 4145343; e-mail: info @aaemtlabs.com; Website: www.aaemtlabs.com

5.1 Output Power Measurement

5.1.1 LIMITS OF OUTPUT POWER MEASUREMENT

Mobile and portable stations are limited to 7 watts EIRP.

5.1.2 TEST PROCEDURES

EIRP MEASUREMENT:

a. All measurements were done at low, middle and high operational frequency range.
RBW and VBW is 10MHz for LTE mode.

b. Substitution method is used for E.I.R.P measurement. In the semi-anechoic chamber, EUT placed on the 0.8m height of Turn Table, rotated the table around 360 degrees to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1m to 4m to find the maximum polar radiated power. The "Read Value" is the spectrum reading the maximum power value.

c. The substitution horn antenna is substituted for EUT at the same position and signals generator export the CW signal to the substitution antenna via a tx cable. Rotated the Turn Table and moved receiving antenna to find the maximum radiation power. Adjust output power level of S.G to get a Value of spectrum reading equal to "Read Value" of step b. Record the power level of S.G

d. EIRP = Output power level of S.G –TX cable loss + Antenna gain

CONDUCTED POWER MEASUREMENT:

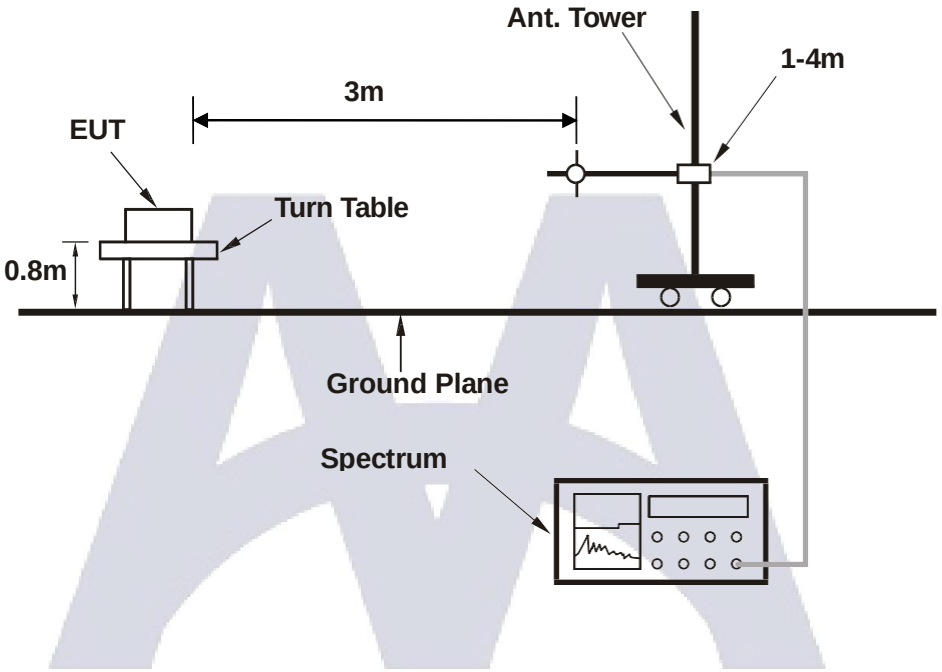
The EUT was set up for the maximum power with GSM, GPRS, EDGE & WCDMA link data modulation and link up with simulator. Set the EUT to transmit under low, middle and high channel and record the power level shown on simulator.

Plot No.174, Udyog Vihar Phase 4, Sector -18, Gurgaon -122016, Haryana, India
Contact:0124-4235350, 4145343; e-mail: info @aaemtlabs.com; Website: www.aaemtlabs.com

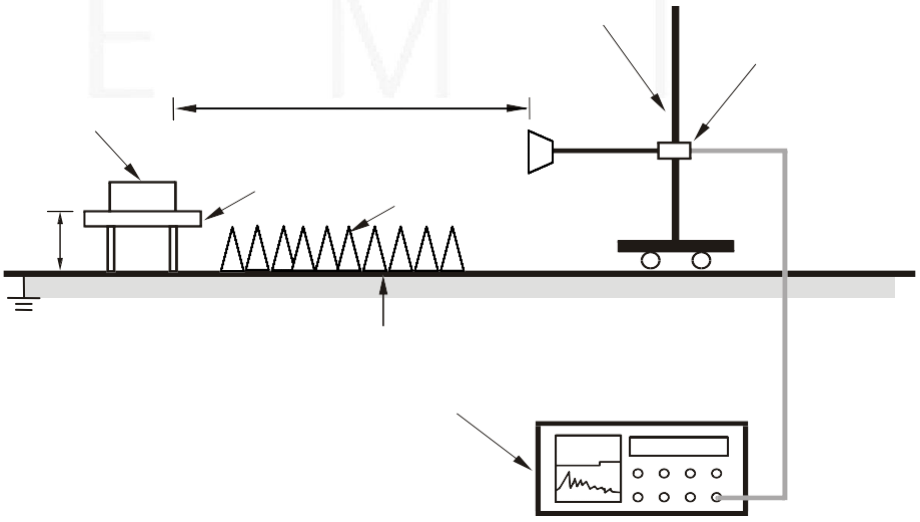
TEST SETUP

EIRP / ERP Measurement:

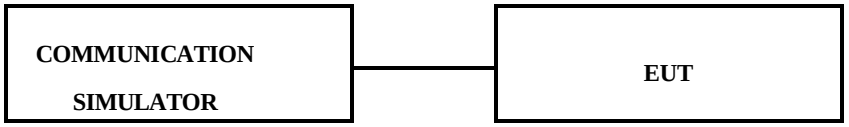
<Radiated Emission below or equal 1 GHz>



<Radiated Emission above 1 GHz>



CONDUCTED POWER MEASUREMENT:



Plot No.174, Udyog Vihar Phase 4, Sector -18, Gurgaon -122016, Haryana, India
Contact:0124-4235350, 4145343; e-mail: info @aaemtlabs.com; Website: www.aaemtlabs.com

5.1.3 Test results

AVERAGE CONDUCTED OUTPUT POWER (dBm)

LTE Band 5				
Modulation	Bandwidth	Channels	Frequency	Tx Average (dBm)
QPSK	10MHz	20450	829	26.67
		20525	836.5	25.81
		20600	844	26.16

LTE BAND 5

CHANNEL BANDWIDTH: 10MHz QPSK

Channel	Frequency (MHz)	SPA LVL (dBm)	Correction Factor(dB)	EIRP (dBm)	EIRP (mW)	Polarization (H/V)	LIMIT (W)
20450	829	-19.11	43.83	24.72	296.48	H	7
20525	836.5	-17.37	43.57	26.20	416.87	H	7
20600	844	-17.91	44.32	26.41	437.52	H	7
20450	829	-21.57	46.41	24.84	304.79	V	7
20525	836.5	-21.83	47.07	25.24	334.20	V	7
20600	844	-21.50	45.88	24.38	274.16	V	7

REMARKS: 1. EIRP Output Power (dBm) = SPA LVL (dBm) + Correction Factor (dB).

2. Correction factor (dB) = Free Space Loss + Antenna Factor + Cable Loss

Plot No.174, Udyog Vihar Phase 4, Sector -18, Gurgaon -122016, Haryana, India
Contact:0124-4235350, 4145343; e-mail: info @aaemtlabs.com; Website: www.aaemtlabs.com

5.2 FREQUENCY STABILITY MEASUREMENT

5.2.1 LIMITS OF FREQUENCY STABILIITY MEASUREMENT

The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

5.2.2 TEST PROCEDURE

a. Device is placed at the oven room. The oven room could control the temperatures and humidity. Power warm up is at least 15 min and power applied should perform before recording frequency error.

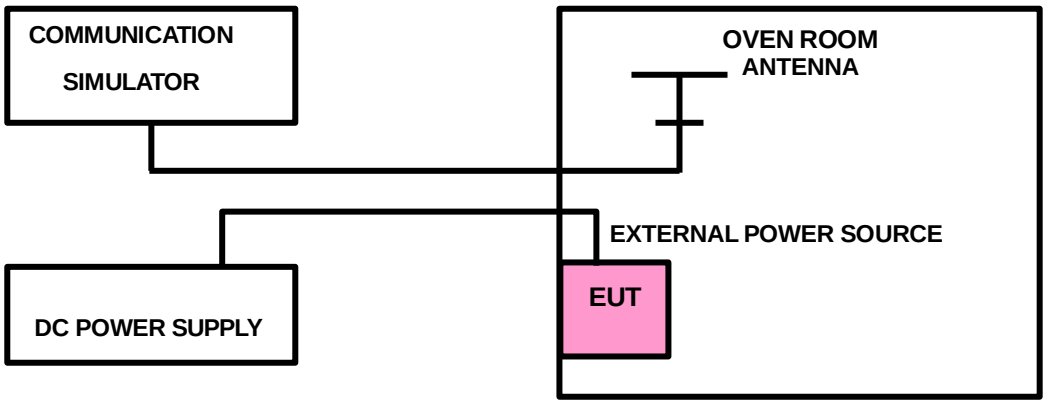
b. EUT is connected the external power supply to control the DC input power. The test voltage range is from minimum to maximum working voltage. Each step shall be record the frequency error rate.

c. The temperature range step is 10 degrees in this test items. All temperature levels shall be hold the ±0.5°C during the measurement testing. The each temperature

step shall be at least 0.5 hours, consider the EUT could be test under the stability condition.

NOTE: The frequency error was recorded frequency error from the communication simulator.

5.2.3 TEST SETUP



Plot No.174, Udyog Vihar Phase 4, Sector -18, Gurgaon -122016, Haryana, India
Contact:0124-4235350, 4145343; e-mail: info @aaemtlabs.com; Website: www.aaemtlabs.com

5.2.4 TEST RESULTS

Frequency Error vs. Temperature

Temp. (°C)	LTE Band 5 Channel Bandwidth: 10MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-20	829.45780	0.002	844.35490	0.001
20	829.45270	-0.002	844.35790	-0.001
50	829.45670	-0.002	844.35780	-0.001

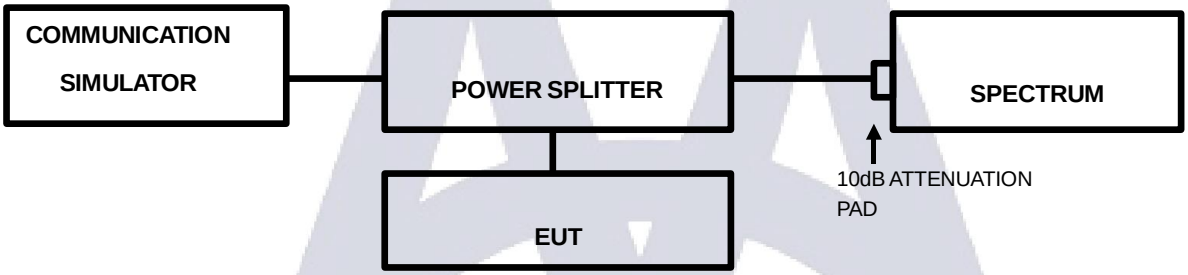
Plot No.174, Udyog Vihar Phase 4, Sector -18, Gurgaon -122016, Haryana, India
Contact:0124-4235350, 4145343; e-mail: info @aaemtlabs.com; Website: www.aaemtlabs.com

5.3 OCCUPIED BANDWIDTH MEASUREMENT

5.3.1 TEST PROCEDURES

The EUT makes a call to the communication simulator. All measurements were done at low, middle and high operational frequency range. The communication simulator station system controlled a EUT to export maximum output power under transmission mode and specific channel frequency. Use OBW measurement function of Spectrum analyzer to measure 99 % occupied bandwidth.

5.3.2 TEST SETUP

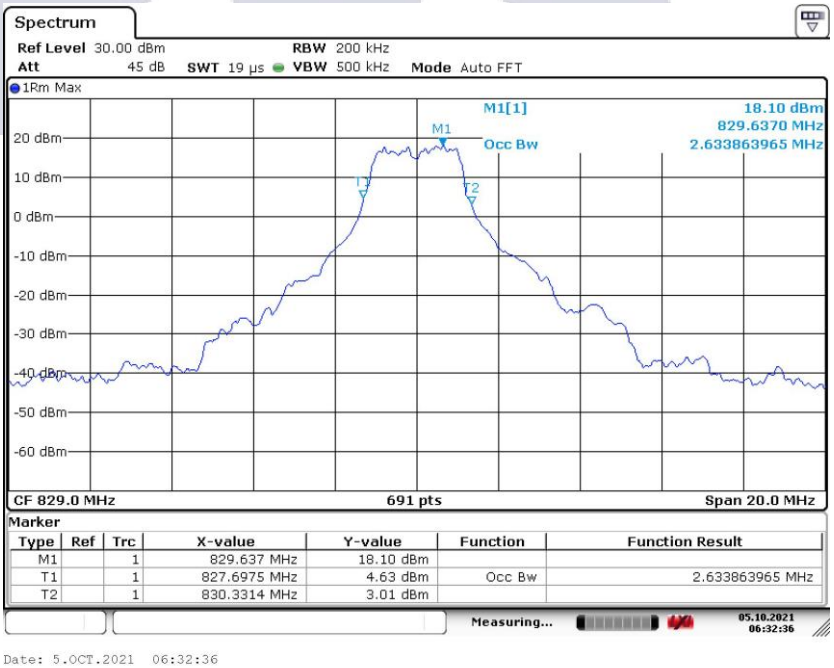


Plot No.174, Udyog Vihar Phase 4, Sector -18, Gurgaon -122016, Haryana, India
Contact:0124-4235350, 4145343; e-mail: info @aaemtlabs.com; Website: www.aaemtlabs.com

5.3.3 TEST RESULTS

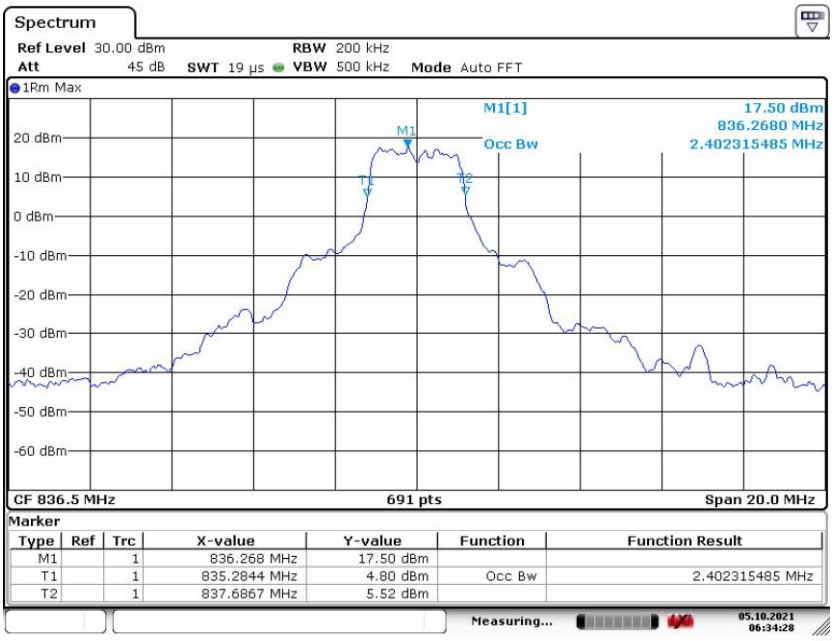
LTE Band 5		
Channel Bandwidth: 10 MHz		
Channel	Frequency (MHz)	99 % Occupied Bandwidth (MHz)
		QPSK
20400	829	2.633
20525	836.5	2.402
20649	844	2.373

829MHz



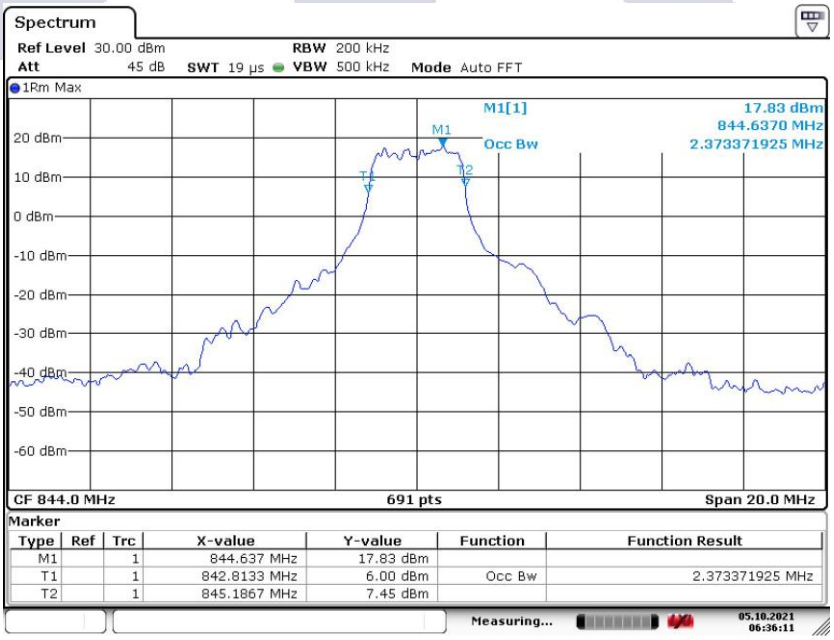
Plot No.174, Udyog Vihar Phase 4, Sector -18, Gurgaon -122016, Haryana, India
Contact:0124-4235350, 4145343; e-mail: info @aaemtlabs.com; Website: www.aaemtlabs.com

836.5MHz



Date: 5.OCT.2021 06:34:28

844MHz



Date: 5.OCT.2021 06:36:11

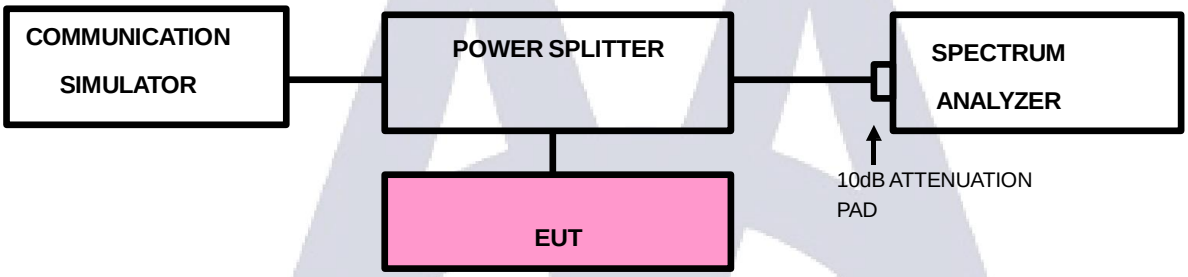
Plot No.174, Udyog Vihar Phase 4, Sector -18, Gurgaon -122016, Haryana, India
Contact:0124-4235350, 4145343; e-mail: info @aaemtlabs.com; Website: www.aaemtlabs.com

5.4 BAND EDGE MEASUREMENT

5.4.1LIMITS OF BAND EDGE MEASUREMENT

Power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43 +10 log (P) dB. In the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.

5.4.2TEST SETUP



5.4.3TEST PROCEDURES

a. All measurements were done at low and high operational frequency range.

b. The center frequency of spectrum is the band edge frequency and span is 1~5 MHz. RBW of the spectrum is 20 KHz and VBW of the spectrum is 100 kHz. (LTE bandwidth 1.4MHz)

C. Record the max trace plot into the test report.

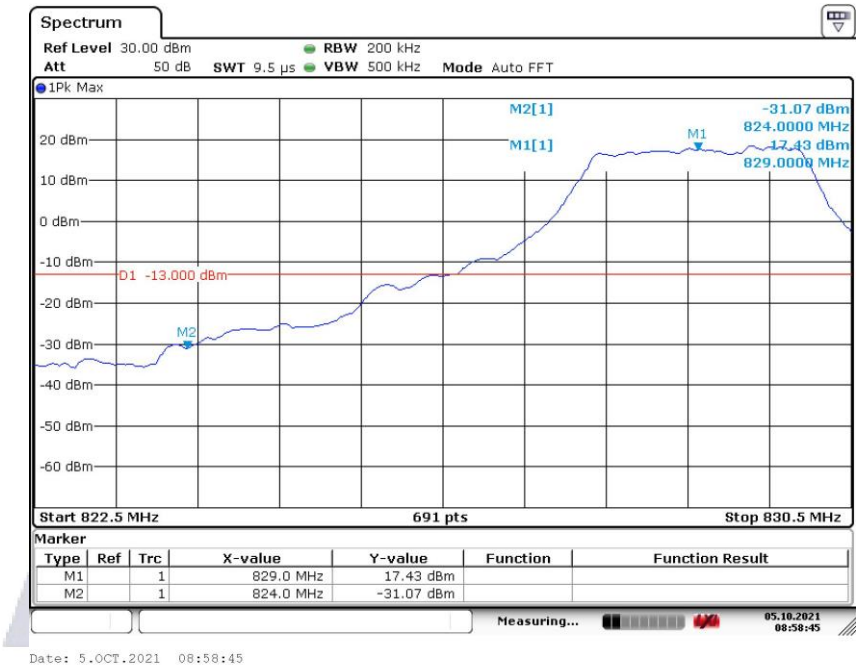
Plot No.174, Udyog Vihar Phase 4, Sector -18, Gurgaon -122016, Haryana, India
Contact:0124-4235350, 4145343; e-mail: info @aaemtlabs.com; Website: www.aaemtlabs.com

6.5.4. TEST RESULTS

LTE Band 5

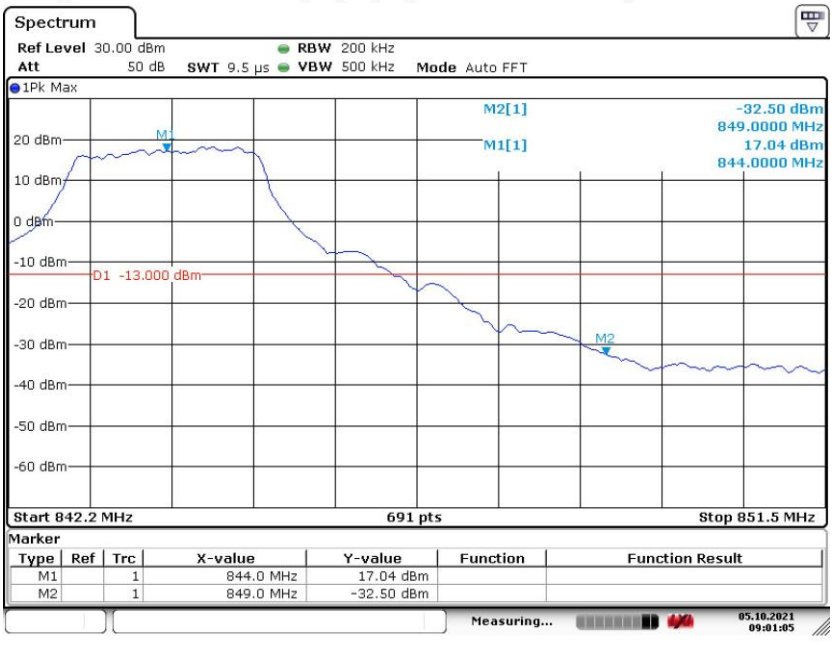
Channel Bandwidth: 10 MHz

824MHz



Date: 5.OCT.2021 08:58:45

844MHz



Date: 5.OCT.2021 09:01:05

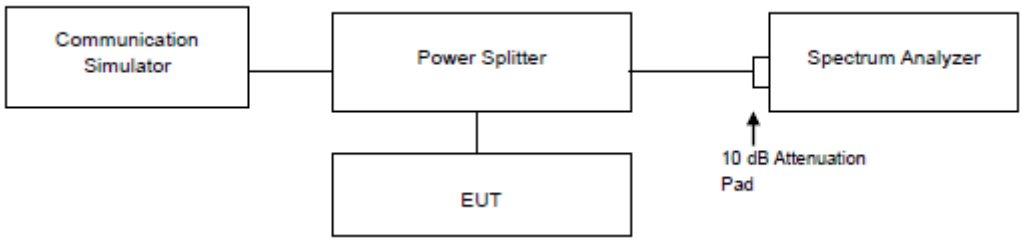
Plot No.174, Udyog Vihar Phase 4, Sector -18, Gurgaon -122016, Haryana, India
Contact:0124-4235350, 4145343; e-mail: info @aaemtlabs.com; Website: www.aaemtlabs.com

5.5 PEAK TO AVERAGE RATIO

5.3.4 Limits of Peak to Average Ratio Measurement

In measuring transmissions in this band using an average power technique, the peak to-average ratio (PAR) of the transmission may not exceed 13 dB.

5.3.5 Test Setup



5.3.6 Test Procedures

1. Set resolution/measurement bandwidth ≥ signal's occupied bandwidth;
2. Set the number of counts to a value that stabilizes the measured CCDF curve;
3. Record the maximum PAPR level associated with a probability of 0.1 %.

Plot No.174, Udyog Vihar Phase 4, Sector -18, Gurgaon -122016, Haryana, India
Contact:0124-4235350, 4145343; e-mail: info @aaemtlabs.com; Website: www.aaemtlabs.com

5.3.7 Test Result

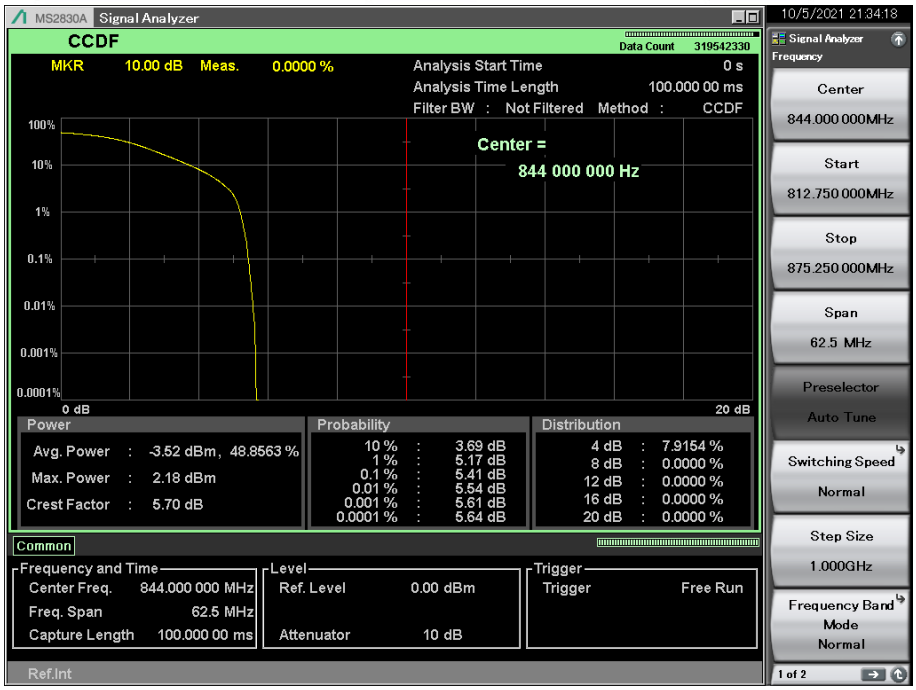
LTE Band 5		
Channel Bandwidth: 10 MHz		
Channel	Frequency (MHz)	Peak to Average Ratio (dB)
		QPSK
20400	829	5.29
20525	836.5	6.75
20649	844	5.41

829MHz

Plot No.174, Udyog Vihar Phase 4, Sector -18, Gurgaon -122016, Haryana, India
Contact:0124-4235350, 4145343; e-mail: info @aaemtlabs.com; Website: www.aaemtlabs.com

836.5MHz

844MHz



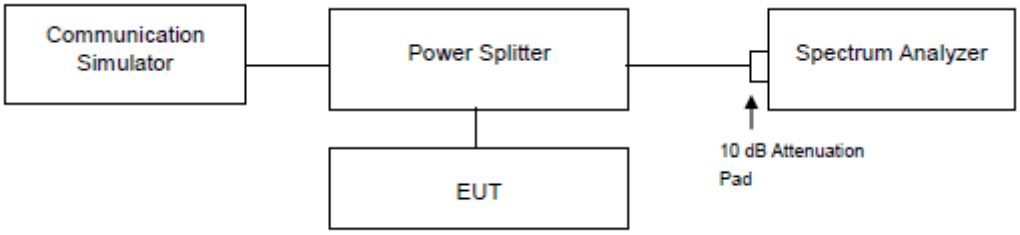
Plot No.174, Udyog Vihar Phase 4, Sector -18, Gurgaon -122016, Haryana, India
Contact:0124-4235350, 4145343; e-mail: info @aaemtlabs.com; Website: www.aaemtlabs.com

5.4 Conducted Spurious Emissions

5.4.1 Limits of Conducted Spurious Emissions Measurement

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43 + 10 log (P) dB. The emission limit equal to -13 dBm.

5.4.2 Test Setup



5.4.3 Test Procedure

a. The EUT makes a phone call to the communication simulator. All measurements were done at low, middle and high operational frequency range.

b. Measuring frequency range is from 9 kHz to 1 GHz. 10 dB attenuation pad is connected with spectrum. RBW = 100 kHz and VBW = 300 kHz is used for conducted emission measurement.

c. Measuring frequency range is from 1 GHz to 27 GHz. 10 dB attenuation pad is connected with spectrum. RBW = 1 MHz and VBW = 3 MHz is used for conducted emission measurement.

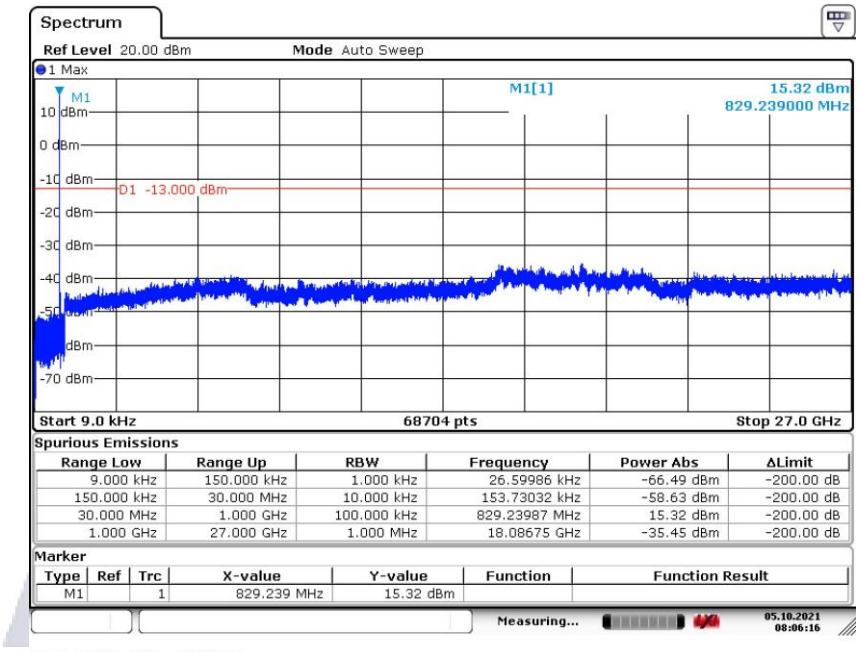
Plot No.174, Udyog Vihar Phase 4, Sector -18, Gurgaon -122016, Haryana, India
Contact:0124-4235350, 4145343; e-mail: info @aaemtlabs.com; Website: www.aaemtlabs.com

5.4.4 Test Results

LTE Band 5

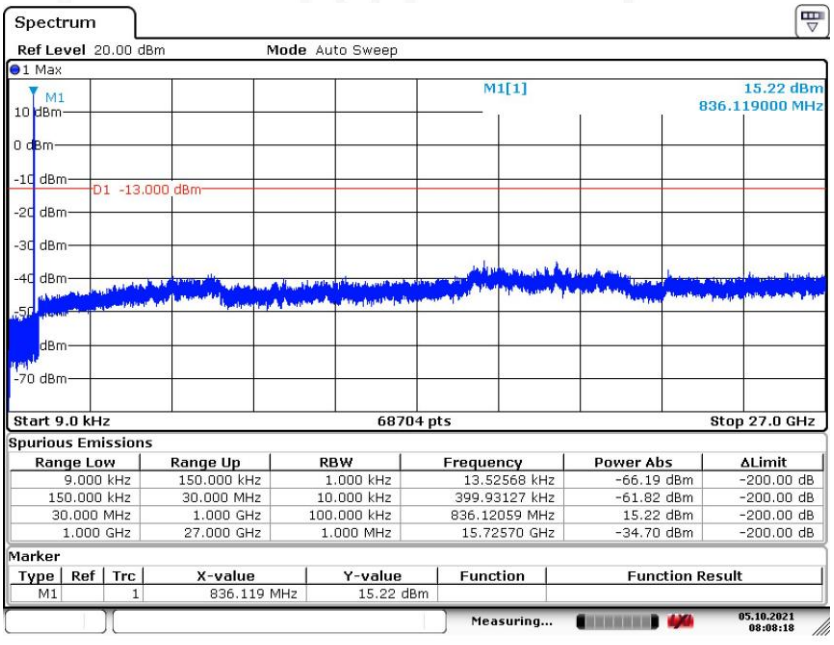
Channel Bandwidth: 10 MHz

829MHz



Date: 5.OCT.2021 08:06:15

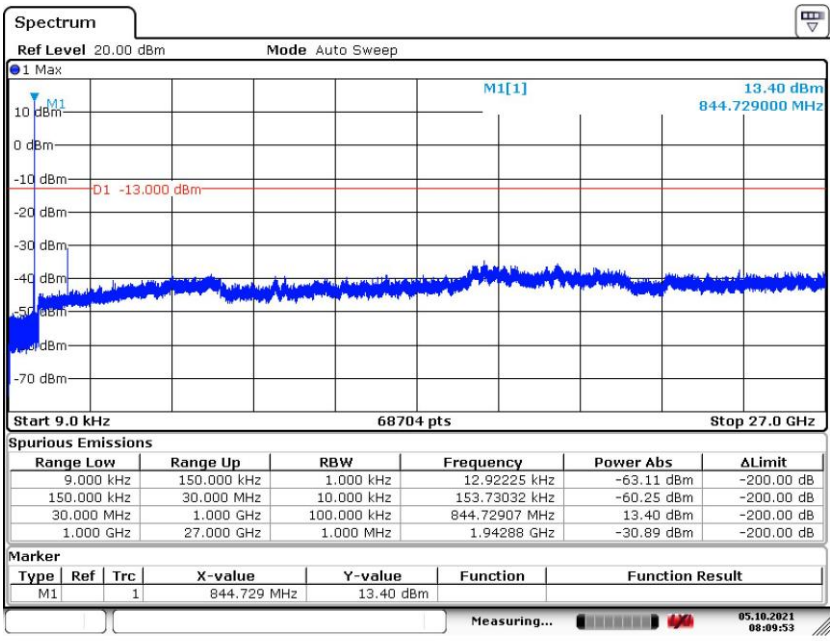
836.5MHz



Date: 5.OCT.2021 08:08:18

Plot No.174, Udyog Vihar Phase 4, Sector -18, Gurgaon -122016, Haryana, India
Contact:0124-4235350, 4145343; e-mail: info @aaemtlabs.com; Website: www.aaemtlabs.com

844MHz



Date: 5.OCT.2021 08:09:53

Plot No.174, Udyog Vihar Phase 4, Sector -18, Gurgaon -122016, Haryana, India
Contact:0124-4235350, 4145343; e-mail: info @aaemtlabs.com; Website: www.aaemtlabs.com

5.5 Radiated Emission Measurement

5.5.1 Limits of Radiated Emission Measurement

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43 + 10 log (P) dB. The emission limit is equal to -13 dBm.

5.5.2 Test Procedure

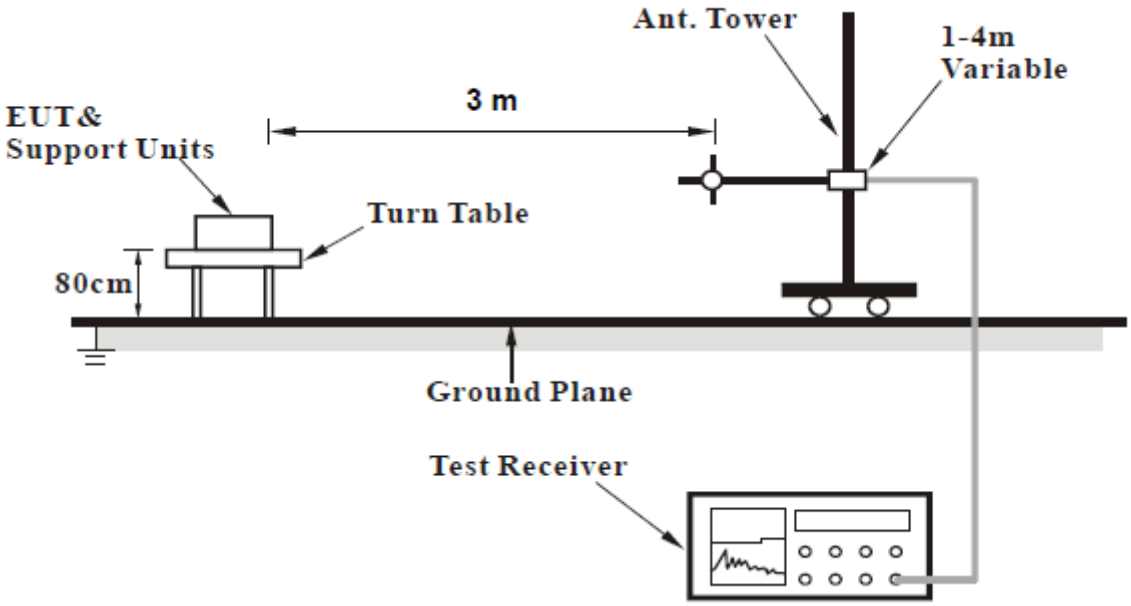
1. Substitution method is used for E.I.R.P measurement. In the semi-anechoic chamber, EUT placed on the 0.8 m (below or equal 1 GHz) and/or 1.5 m (above 1 GHz) height of Turn Table, rotated the table around 360 degrees to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1 m to 4 m to find the maximum polar radiated power. The "Read Value" is the spectrum reading the maximum power value.
2. The substitution horn antenna is substituted for EUT at the same position and signals generator export the CW signal to the substitution antenna via a TX cable. Rotated the Turn Table and moved receiving antenna to find the maximum radiation power. Adjust output power level of S.G to get a Value of spectrum reading equal to "Read Value" of step a. Record the power level of S.G.
3. EIRP = Output power level of S.G – TX cable loss + Antenna gain
4. E.R.P power can be calculated form E.I.R.P power by subtracting the gain of dipole, E.R.P power = E.I.R.P power - 2.15 dB

NOTE: The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1 MHz/3 MHz.

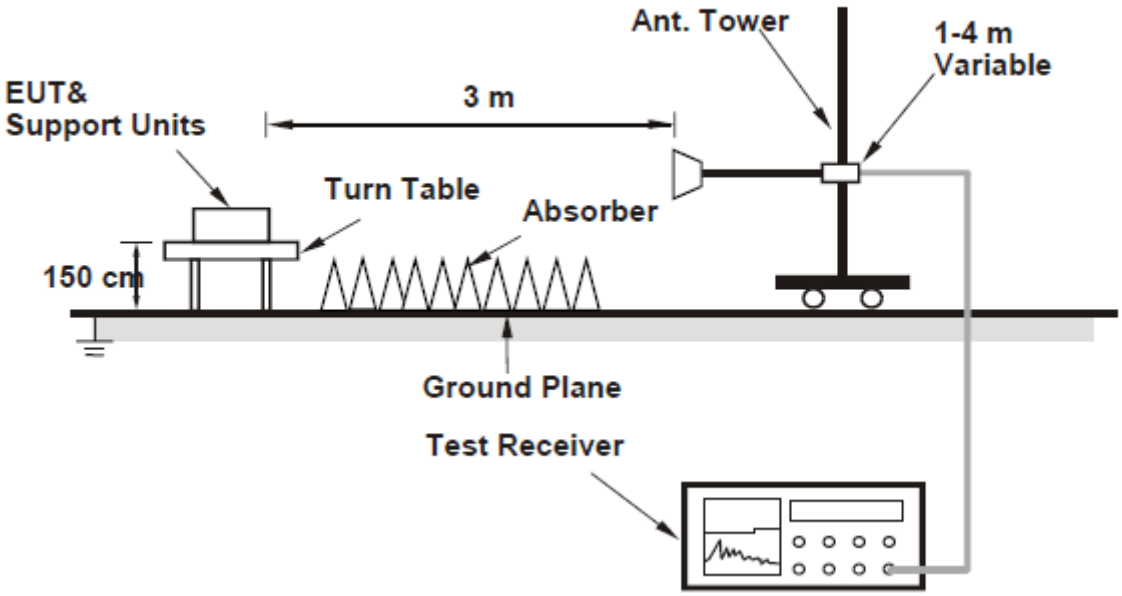
Plot No.174, Udyog Vihar Phase 4, Sector -18, Gurgaon -122016, Haryana, India
Contact:0124-4235350, 4145343; e-mail: info @aaemtlabs.com; Website: www.aaemtlabs.com

5.5.3 Test Setup

<Radiated Emission below or equal 1 GHz>



<Radiated Emission above 1 GHz>



Plot No.174, Udyog Vihar Phase 4, Sector -18, Gurgaon -122016, Haryana, India
Contact:0124-4235350, 4145343; e-mail: info @aaemtlabs.com; Website: www.aaemtlabs.com

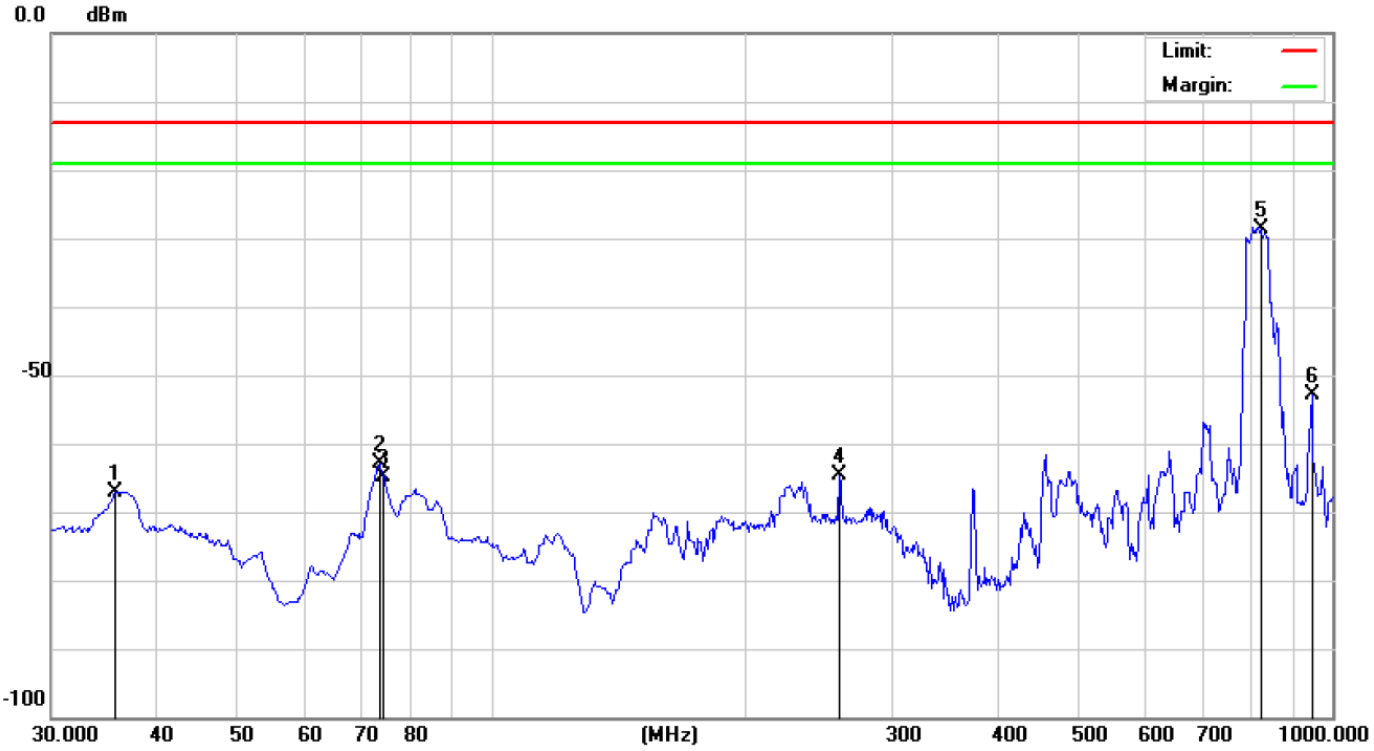
5.5.4 Test Results

LTE Band 5

Channel Bandwidth: 10 MHz/QPSK

CH 20450

Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBm	dB	dBm	dB	dB	Detector
1		35.8200	-51.09	-15.96	-67.05	-13.00	-54.05	peak
2		73.6500	-45.31	-17.65	-62.96	-13.00	-49.96	peak
3		74.6200	-47.11	-17.67	-64.78	-13.00	-51.78	peak
4		259.8899	-52.66	-11.97	-64.63	-13.00	-51.63	peak
5	*	824.0000	-28.37	-0.37	-28.74	-13.00	-15.74	peak
6		945.6798	-55.49	2.51	-52.98	-13.00	-39.98	peak

Plot No.174, Udyog Vihar Phase 4, Sector -18, Gurgaon -122016, Haryana, India
Contact:0124-4235350, 4145343; e-mail: info @aaemtlabs.com; Website: www.aaemtlabs.com

LTE Band 5

Channel Bandwidth: 10 MHz/QPSK

CH 20450

Horizontal

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBm	dB	dBm	dB	dB	Detector
1		35.8200	-50.09	-15.96	-66.05	-13.00	-53.05	peak
2		73.6500	-43.81	-17.65	-61.46	-13.00	-48.46	peak
3		259.8899	-51.16	-11.97	-63.13	-13.00	-50.13	peak
4		456.8000	-52.96	-7.11	-60.07	-13.00	-47.07	peak
5	*	824.0000	-29.87	-0.37	-30.24	-13.00	-17.24	peak
6		945.6798	-54.99	2.51	-52.48	-13.00	-39.48	peak

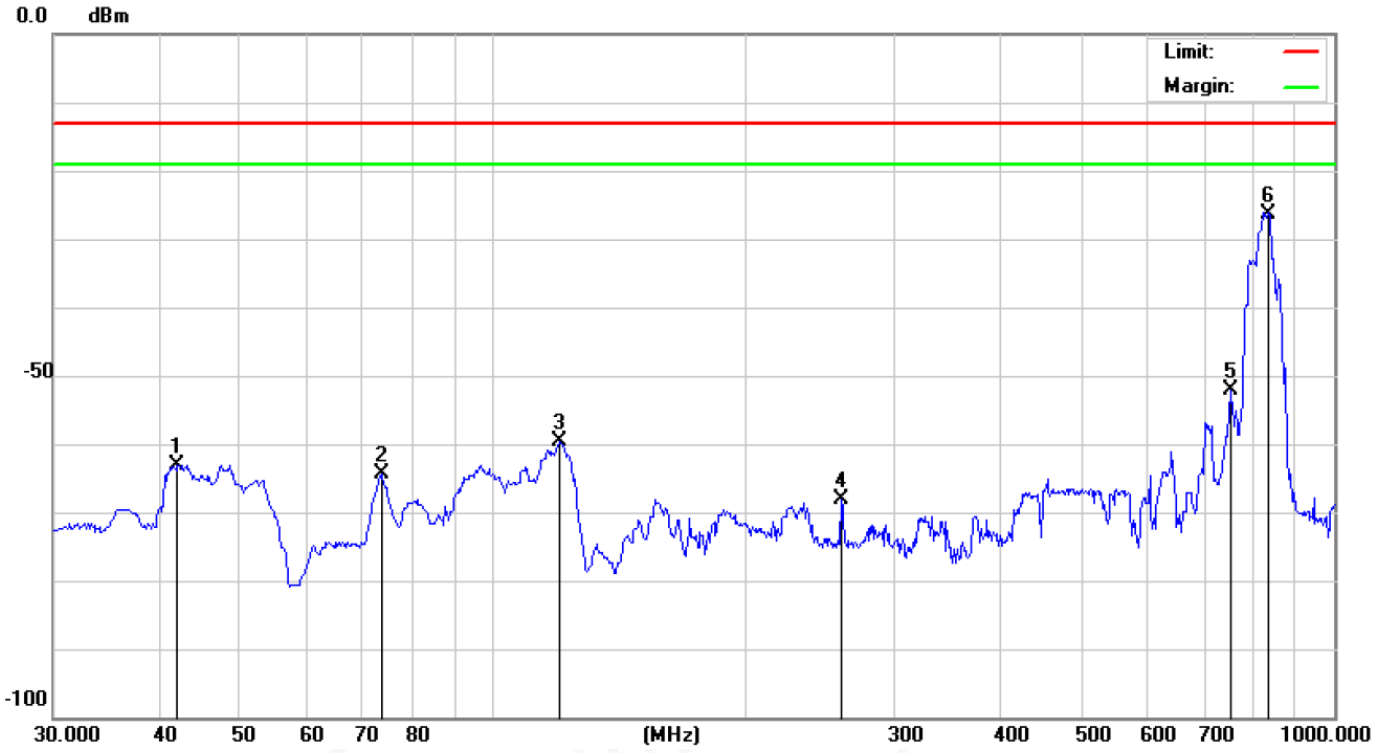
Plot No.174, Udyog Vihar Phase 4, Sector -18, Gurgaon -122016, Haryana, India
Contact:0124-4235350, 4145343; e-mail: info @aaemtlabs.com; Website: www.aaemtlabs.com

LTE Band 5

Channel Bandwidth: 10 MHz/QPSK

CH 20525

Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBm	dB	dBm	dB	dB	Detector
1		42.1540	-43.99	-19.03	-63.02	-13.00	-50.02	peak
2		73.6500	-46.81	-17.65	-64.46	-13.00	-51.46	peak
3		120.2099	-43.53	-16.20	-59.73	-13.00	-46.73	peak
4		259.8899	-56.16	-11.97	-68.13	-13.00	-55.13	peak
5		753.6200	-50.38	-1.76	-52.14	-13.00	-39.14	peak
6	*	836.5000	-26.45	0.12	-26.33	-13.00	-13.33	peak

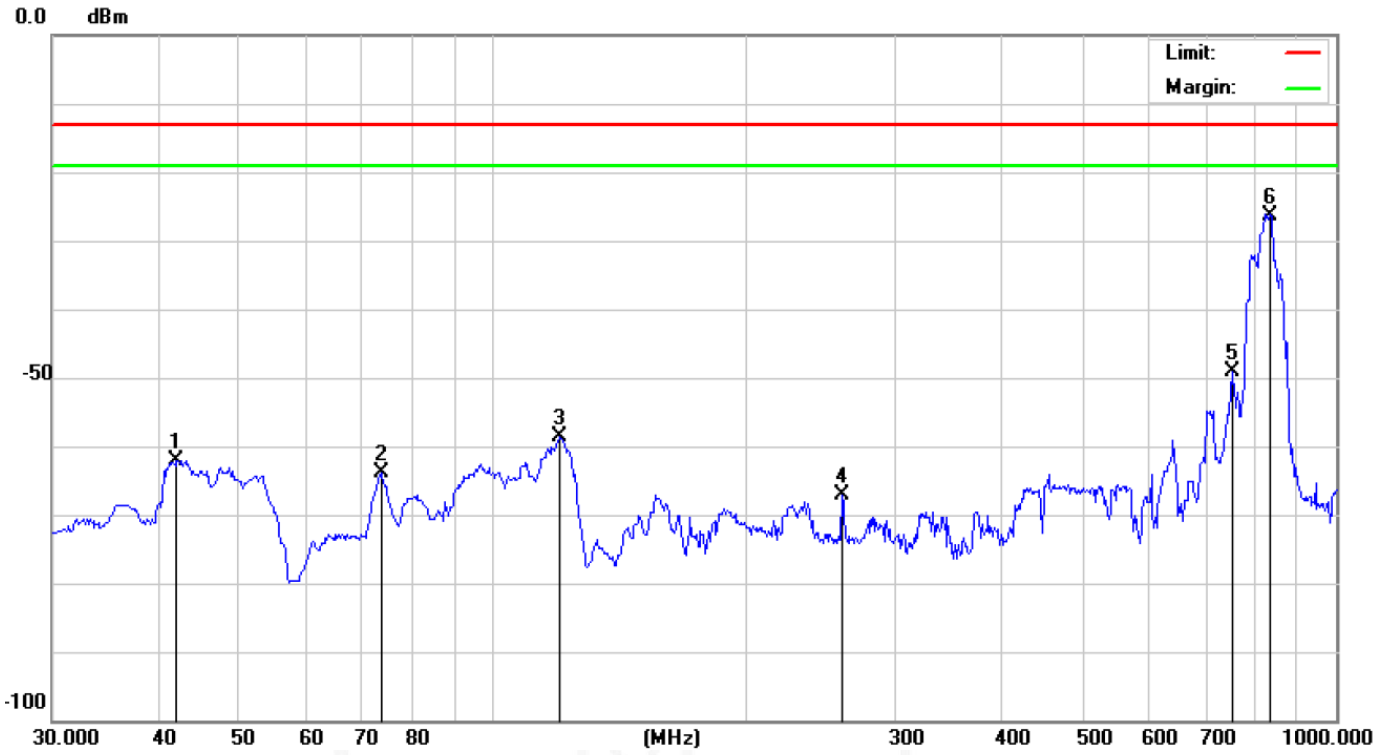
Plot No.174, Udyog Vihar Phase 4, Sector -18, Gurgaon -122016, Haryana, India
Contact:0124-4235350, 4145343; e-mail: info @aaemtlabs.com; Website: www.aaemtlabs.com

LTE Band 5

Channel Bandwidth: 10 MHz/QPSK

CH 20525

Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBm	dB	dBm	dB	dB	Detector
1		42.1540	-42.99	-19.03	-62.02	-13.00	-49.02	peak
2		73.6500	-46.31	-17.65	-63.96	-13.00	-50.96	peak
3		120.2099	-42.53	-16.20	-58.73	-13.00	-45.73	peak
4		259.8899	-55.16	-11.97	-67.13	-13.00	-54.13	peak
5		753.6200	-47.38	-1.76	-49.14	-13.00	-36.14	peak
6	*	836.5000	-26.45	0.12	-26.33	-13.00	-13.33	peak

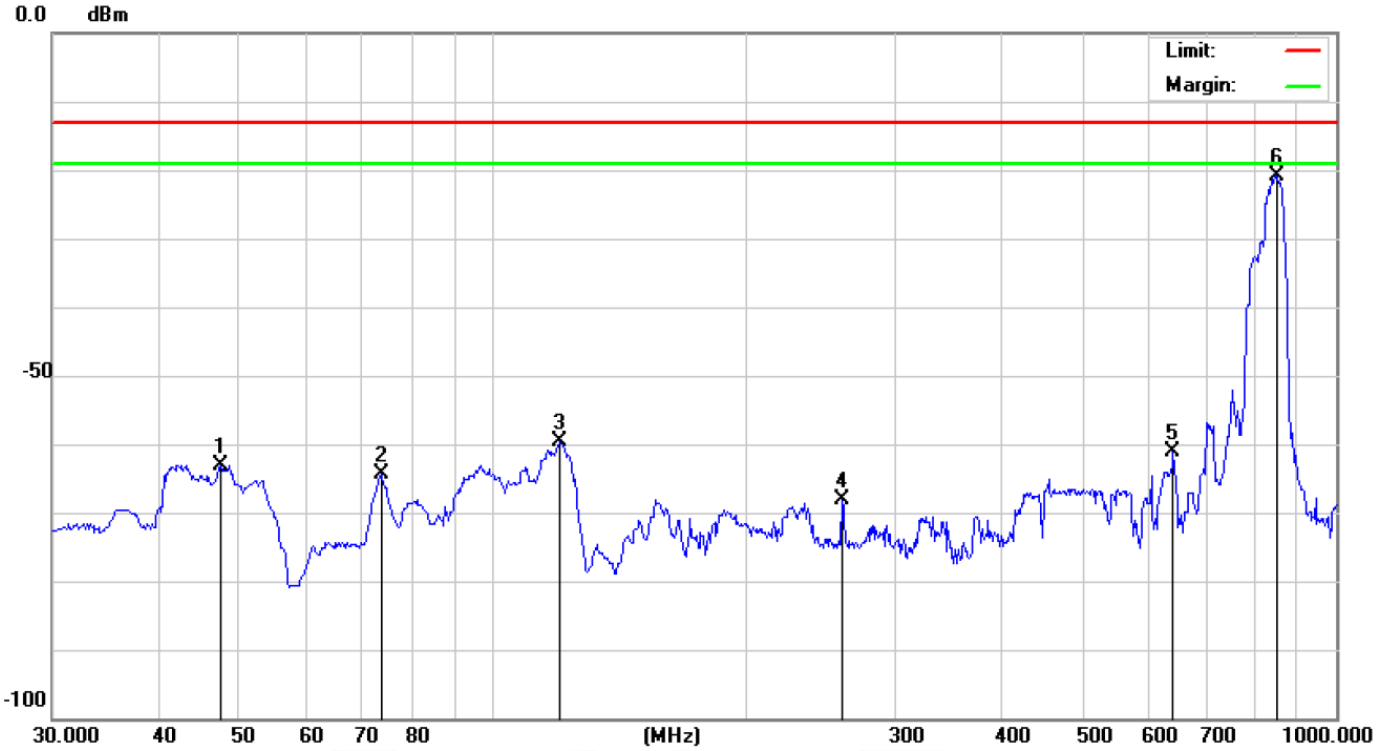
Plot No.174, Udyog Vihar Phase 4, Sector -18, Gurgaon -122016, Haryana, India
Contact:0124-4235350, 4145343; e-mail: info @aaemtlabs.com; Website: www.aaemtlabs.com

LTE Band 5

Channel Bandwidth: 10 MHz/QPSK

CH 20600

Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBm	dB	dBm	dB	dB	Detector
1		47.4917	-45.56	-17.46	-63.02	-13.00	-50.02	peak
2		73.6500	-46.81	-17.65	-64.46	-13.00	-51.46	peak
3		120.2099	-43.53	-16.20	-59.73	-13.00	-46.73	peak
4		259.8899	-56.16	-11.97	-68.13	-13.00	-55.13	peak
5		641.1000	-57.93	-3.19	-61.12	-13.00	-48.12	peak
6	*	849.5000	-21.39	0.62	-20.77	-13.00	-7.77	peak

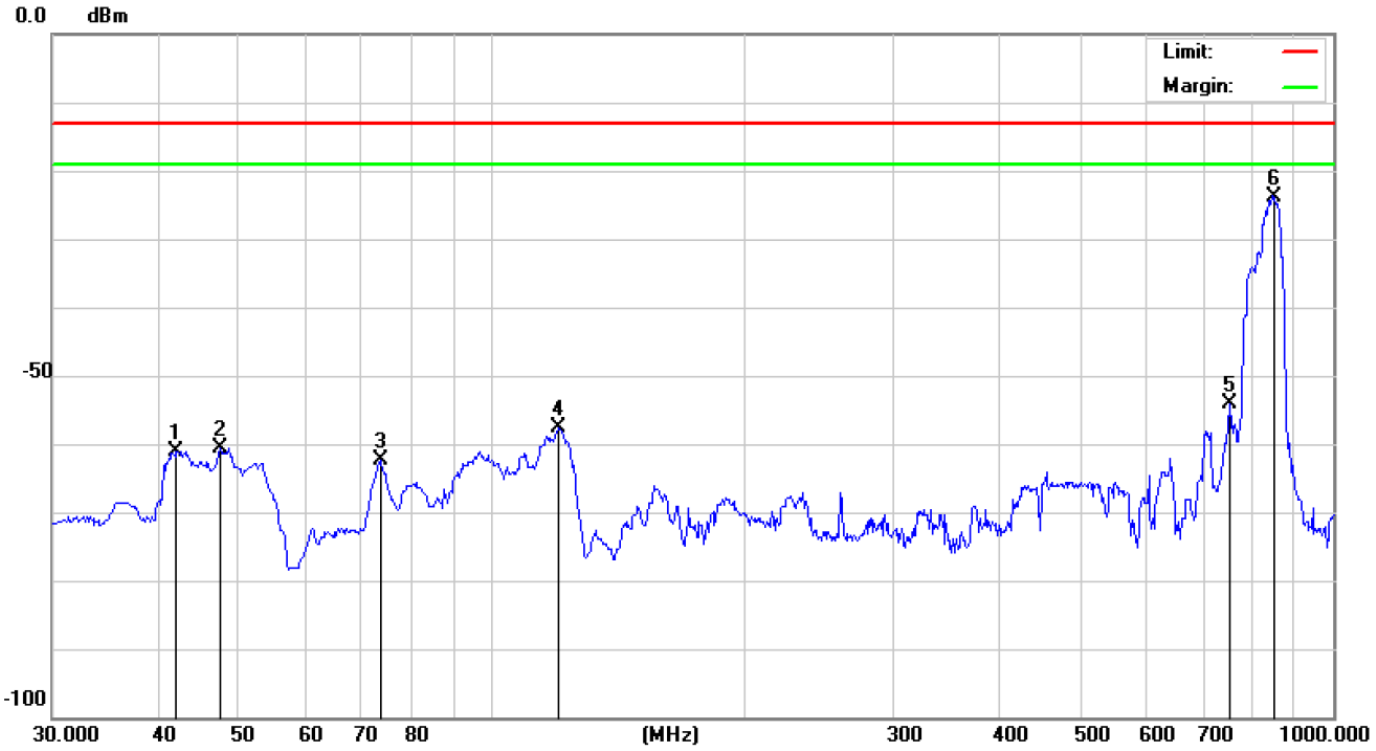
Plot No.174, Udyog Vihar Phase 4, Sector -18, Gurgaon -122016, Haryana, India
Contact:0124-4235350, 4145343; e-mail: info @aaemtlabs.com; Website: www.aaemtlabs.com

LTE Band 5

Channel Bandwidth: 10 MHz/QPSK

CH 20600

Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBm	dB	dBm	dB	dB	Detector
1		42.1540	-41.99	-19.03	-61.02	-13.00	-48.02	peak
2		47.4917	-43.06	-17.46	-60.52	-13.00	-47.52	peak
3		73.6500	-44.81	-17.65	-62.46	-13.00	-49.46	peak
4		120.2099	-41.53	-16.20	-57.73	-13.00	-44.73	peak
5		753.6200	-52.38	-1.76	-54.14	-13.00	-41.14	peak
6	*	849.5000	-24.39	0.62	-23.77	-13.00	-10.77	peak

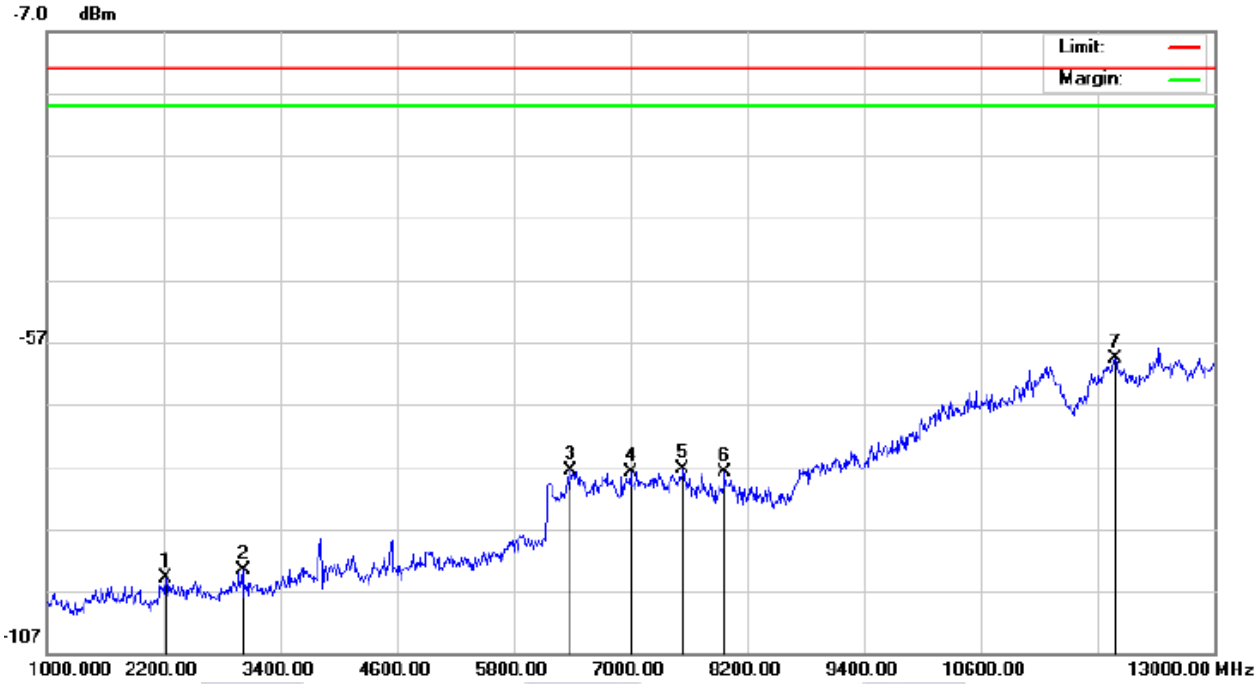
Plot No.174, Udyog Vihar Phase 4, Sector -18, Gurgaon -122016, Haryana, India
Contact:0124-4235350, 4145343; e-mail: info @aaemtlabs.com; Website: www.aaemtlabs.com

LTE Band 5

Channel Bandwidth: 10 MHz/QPSK

CH 20450

Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBm	dB	dBm	dB	dB	Detector
1		2224.000	-86.26	-8.52	-94.78	-13.00	-81.78	peak
2		3016.000	-87.71	-5.92	-93.63	-13.00	-80.63	peak
3		6388.000	-79.89	2.19	-77.70	-13.00	-64.70	peak
4		7000.000	-84.75	6.93	-77.82	-13.00	-64.82	peak
5		7540.000	-85.78	8.39	-77.39	-13.00	-64.39	peak
6		7972.000	-87.13	9.27	-77.86	-13.00	-64.86	peak
7	*	11980.00	-72.13	12.63	-59.50	-13.00	-46.50	peak

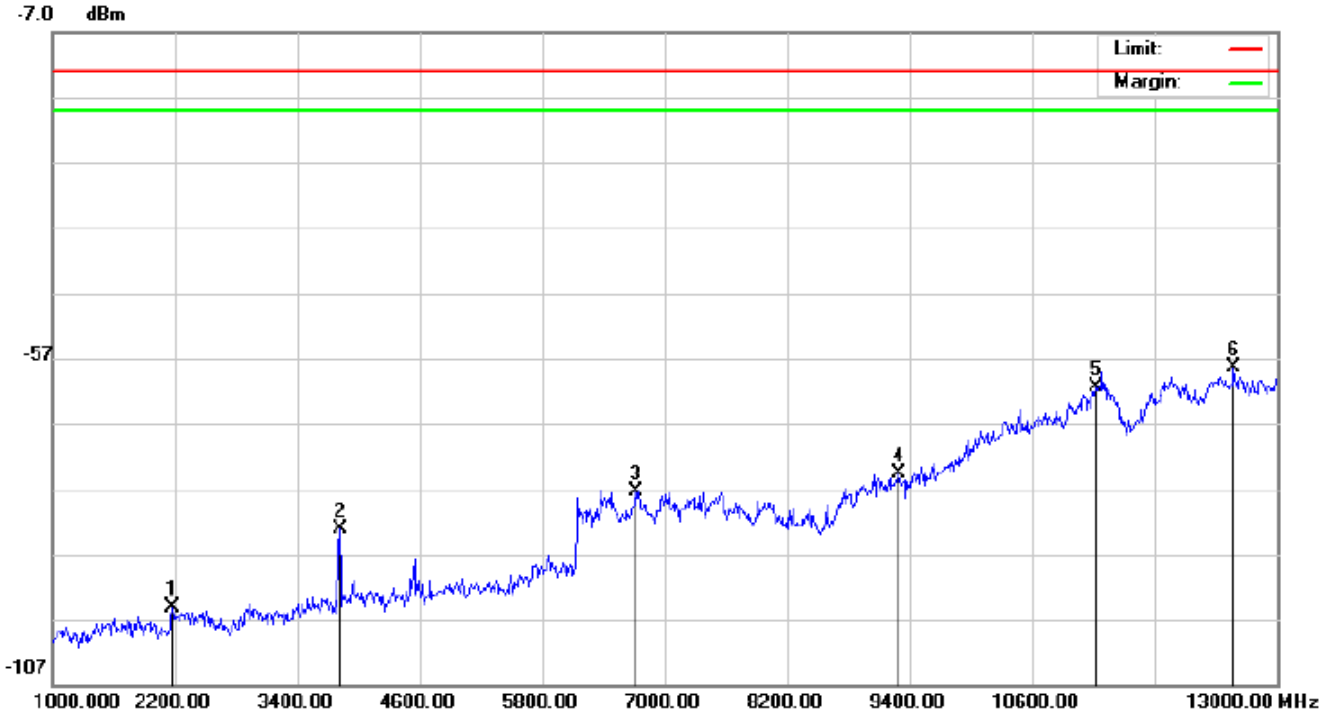
Plot No.174, Udyog Vihar Phase 4, Sector -18, Gurgaon -122016, Haryana, India
Contact:0124-4235350, 4145343; e-mail: info @aaemtlabs.com; Website: www.aaemtlabs.com

LTE Band 5

Channel Bandwidth: 10 MHz/QPSK

CH 20450

Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBm	dB	dBm	dB	dB	Detector
1		2176.000	-86.43	-8.74	-95.17	-13.00	-82.17	peak
2		3820.000	-79.21	-3.84	-83.05	-13.00	-70.05	peak
3		6712.000	-81.71	4.39	-77.32	-13.00	-64.32	peak
4		9292.000	-85.01	10.45	-74.56	-13.00	-61.56	peak
5		11236.00	-74.07	12.62	-61.45	-13.00	-48.45	peak
6	*	12580.00	-70.77	12.48	-58.29	-13.00	-45.29	peak

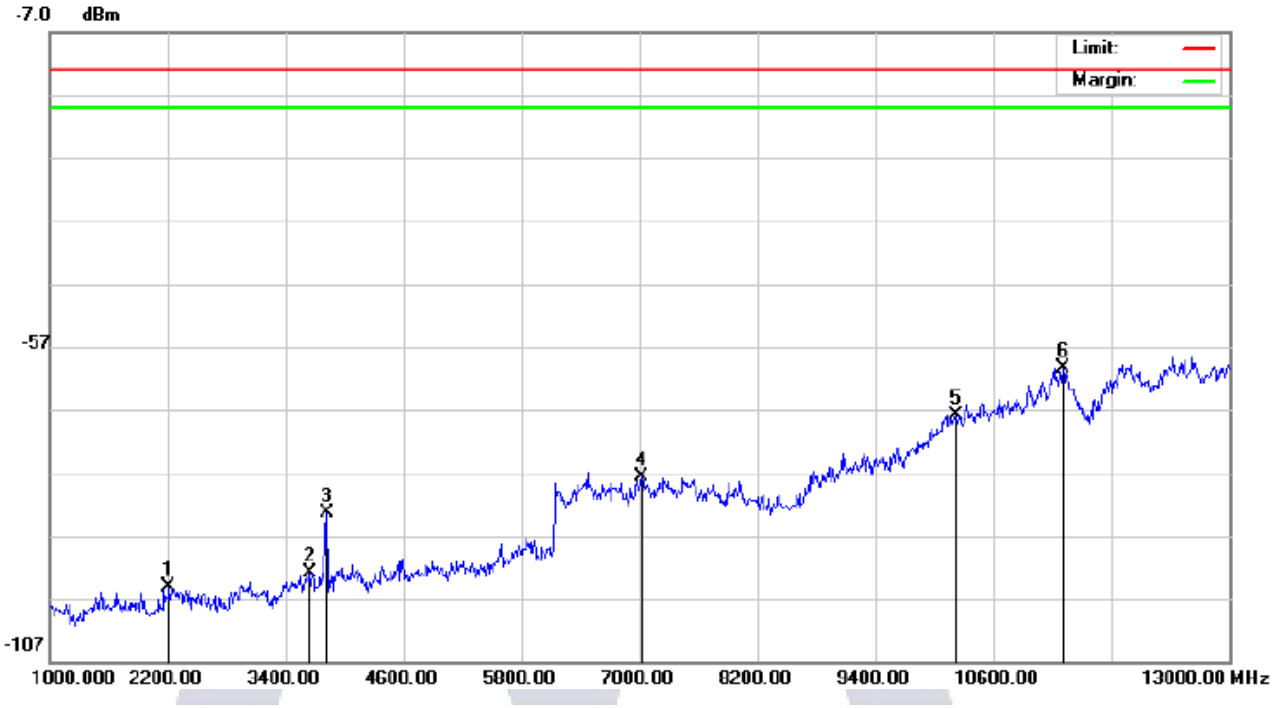
Plot No.174, Udyog Vihar Phase 4, Sector -18, Gurgaon -122016, Haryana, India
Contact:0124-4235350, 4145343; e-mail: info @aaemtlabs.com; Website: www.aaemtlabs.com

LTE Band 5

Channel Bandwidth: 10 MHz/QPSK

CH 20525

Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBm	dB	dBm	dB	dB	Detector
1		2212.000	-86.64	-8.58	-95.22	-13.00	-82.22	peak
2		3652.000	-88.64	-4.17	-92.81	-13.00	-79.81	peak
3		3820.000	-79.48	-3.84	-83.32	-13.00	-70.32	peak
4		7024.000	-84.54	6.99	-77.55	-13.00	-64.55	peak
5		10216.00	-80.45	12.62	-67.83	-13.00	-54.83	peak
6	*	11308.00	-73.24	12.93	-60.31	-13.00	-47.31	peak

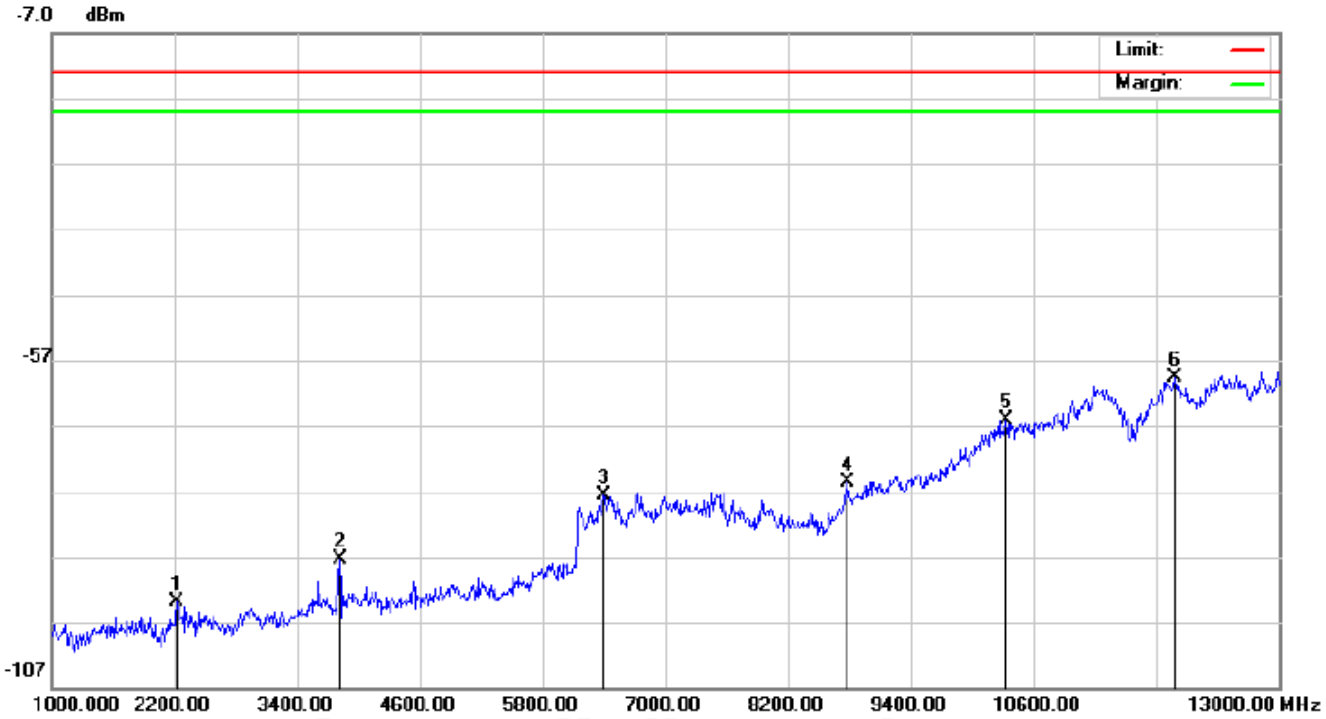
Plot No.174, Udyog Vihar Phase 4, Sector -18, Gurgaon -122016, Haryana, India
Contact:0124-4235350, 4145343; e-mail: info @aaemtlabs.com; Website: www.aaemtlabs.com

LTE Band 5

Channel Bandwidth: 10 MHz/QPSK

CH 20525

Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBm	dB	dBm	dB	dB	Detector
1		2224.000	-85.35	-8.52	-93.87	-13.00	-80.87	peak
2		3820.000	-83.65	-3.84	-87.49	-13.00	-74.49	peak
3		6400.000	-79.90	2.22	-77.68	-13.00	-64.68	peak
4		8788.000	-88.48	12.85	-75.63	-13.00	-62.63	peak
5		10336.00	-79.00	12.98	-66.02	-13.00	-53.02	peak
6	*	11980.00	-72.35	12.63	-59.72	-13.00	-46.72	peak

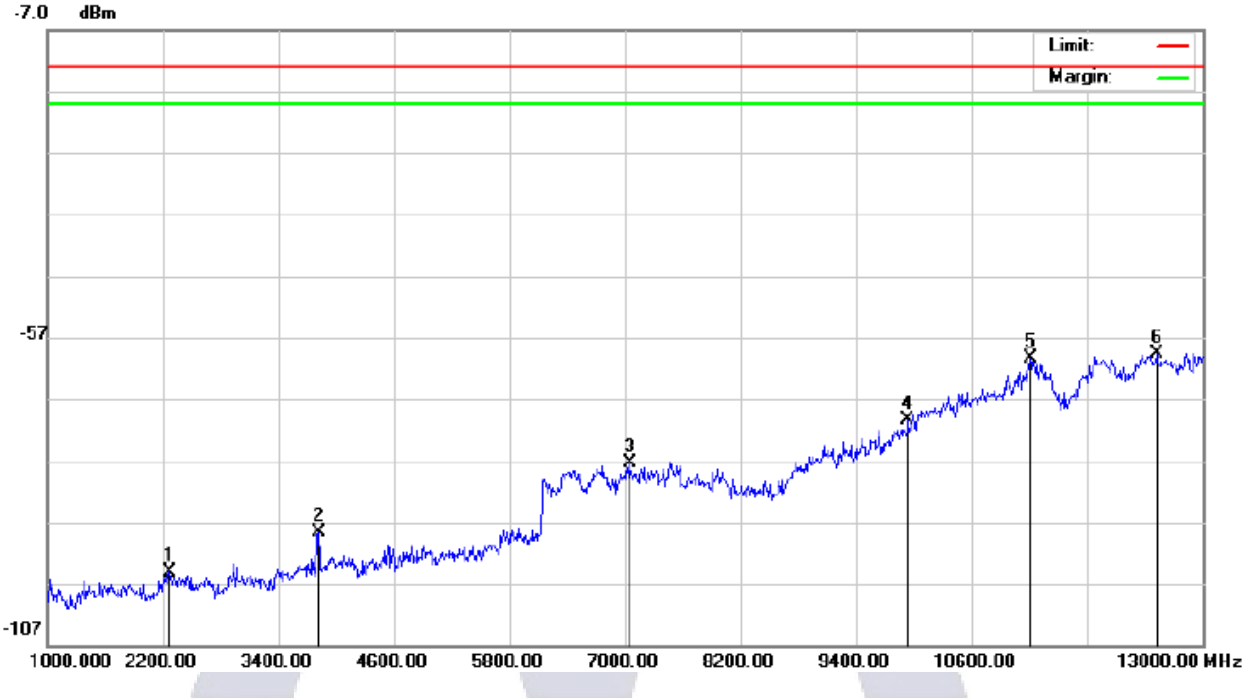
Plot No.174, Udyog Vihar Phase 4, Sector -18, Gurgaon -122016, Haryana, India
Contact:0124-4235350, 4145343; e-mail: info @aaemtlabs.com; Website: www.aaemtlabs.com

LTE Band 5

Channel Bandwidth: 10 MHz/QPSK

CH 20600

Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBm	dB	dBm	dB	dB	Detector
1		2272.000	-86.69	-8.31	-95.00	-13.00	-82.00	peak
2		3820.000	-84.85	-3.84	-88.69	-13.00	-75.69	peak
3		7048.000	-84.52	7.06	-77.46	-13.00	-64.46	peak
4		9940.000	-81.72	11.44	-70.28	-13.00	-57.28	peak
5		11212.00	-72.88	12.52	-60.36	-13.00	-47.36	peak
6	*	12520.00	-71.87	12.32	-59.55	-13.00	-46.55	peak

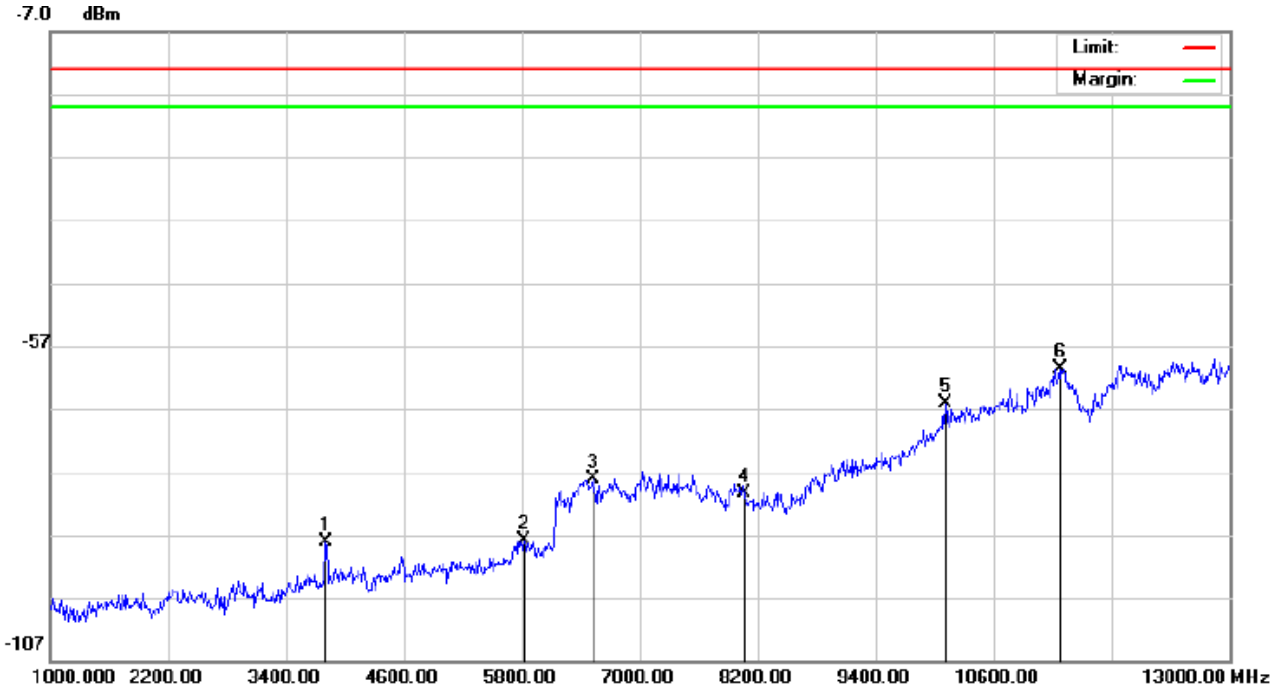
Plot No.174, Udyog Vihar Phase 4, Sector -18, Gurgaon -122016, Haryana, India
Contact:0124-4235350, 4145343; e-mail: info @aaemtlabs.com; Website: www.aaemtlabs.com

LTE Band 5

Channel Bandwidth: 10 MHz/QPSK

CH 20600

Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBm	dB	dBm	dB	dB	Detector
1		3808.000	-84.19	-3.86	-88.05	-13.00	-75.05	peak
2		5824.000	-88.61	0.64	-87.97	-13.00	-74.97	peak
3		6520.000	-80.69	2.69	-78.00	-13.00	-65.00	peak
4		8068.000	-89.74	9.49	-80.25	-13.00	-67.25	peak
5		10108.00	-78.54	12.30	-66.24	-13.00	-53.24	peak
6	*	11272.00	-73.30	12.77	-60.53	-13.00	-47.53	peak

****End of Report****

Plot No.174, Udyog Vihar Phase 4, Sector -18, Gurgaon -122016, Haryana, India
Contact:0124-4235350, 4145343; e-mail: info @aaemtlabs.com; Website: www.aaemtlabs.com