



TESTING LABORATORY
CERTIFICATE #4820.01



FCC PART 15B

TEST REPORT

For

Xiamen Ursalink Technology Co., Ltd.

4/F,NO. 63-2 Wanghai Road, 2nd Software Park,Xiamen ,China

FCC ID: 2AOSV-UR52-5

Report Type: Original Report	Product Type: Industrial Cellular Router
Report Number:	RXM180313053-00A
Report Date:	2018-08-20
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GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

EUT Name:		Industrial Cellular Router
EUT Model:		UR55
Multiple Model:		UR52
FCC ID:		2AOSV-UR52-5
Rated Input Voltage:		DC 12V from adapter
Adapter Information	Model:	OH-1015A1201000U1-UL
	Input:	100-240V~50/60Hz 350mA
	Output:	DC 12V 1A
The Highest Operating Frequency:		5850MHz
External Dimension:		132mm(L)*103.8mm(W)*45mm(H)
Serial Number:		180313053-1(UR55) 180313053-2(UR52)
EUT Received Date:		2018.04.29

Note: The series product, model UR52 is electrically identical with model UR55, we selected UR55 for fully testing, the differences details was explained in the declaration letter.

Objective

This report is prepared on behalf of *Xiamen Ursalink Technology Co., Ltd.* in accordance with FCC Part 15B Part 2, Part J, and Part 15, Subpart A and B of the Federal Communications Commission's rules..

The objective is to determine the compliance of EUT with:
FCC Part 15B.

Related Submittal(s)/Grant(s)

FCC Part 15E NII submissions with FCC ID: 2AOSV-UR52-5.
FCC Part 15C DTS submissions with FCC ID: 2AOSV-UR52-5.

Test Methodology

All measurements contained in this report were conducted with ANSI C63.4-2014 American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz.

Measurement Uncertainty

Parameter	Measurement Uncertainty
Unwanted Emissions, radiated	30M~200MHz: 4.55 dB, 200M~1GHz: 5.92 dB, 1G~6GHz: 4.98 dB, 6G~18GHz: 5.89 dB, 18G~26.5G: 5.47 dB, 26.5G~40G: 5.63 dB
Temperature	±1 °C
Humidity	±5%
AC Power Lines Conducted Emission	3.12 dB (150 kHz to 30 MHz)

Test Facility

The Test site used by Bay Area Compliance Laboratories Corp. (Dongguan) to collect test data is located on the No.69 Pulongcun, Puxinhu Industry Area, Tangxia, Dongguan, Guangdong, China.

The test site has been approved by the FCC under the KDB 974614 D01 and is listed in the FCC Public Access Link (PAL) database, FCC Registration No. : 897218, the FCC Designation No. : CN1220.

The test site has been registered with ISED Canada under ISED Canada Registration Number 3062D.

SYSTEM TEST CONFIGURATION

Description of Test Configuration

The system was configured for testing in a typical fashion (as normally used by a typical user).

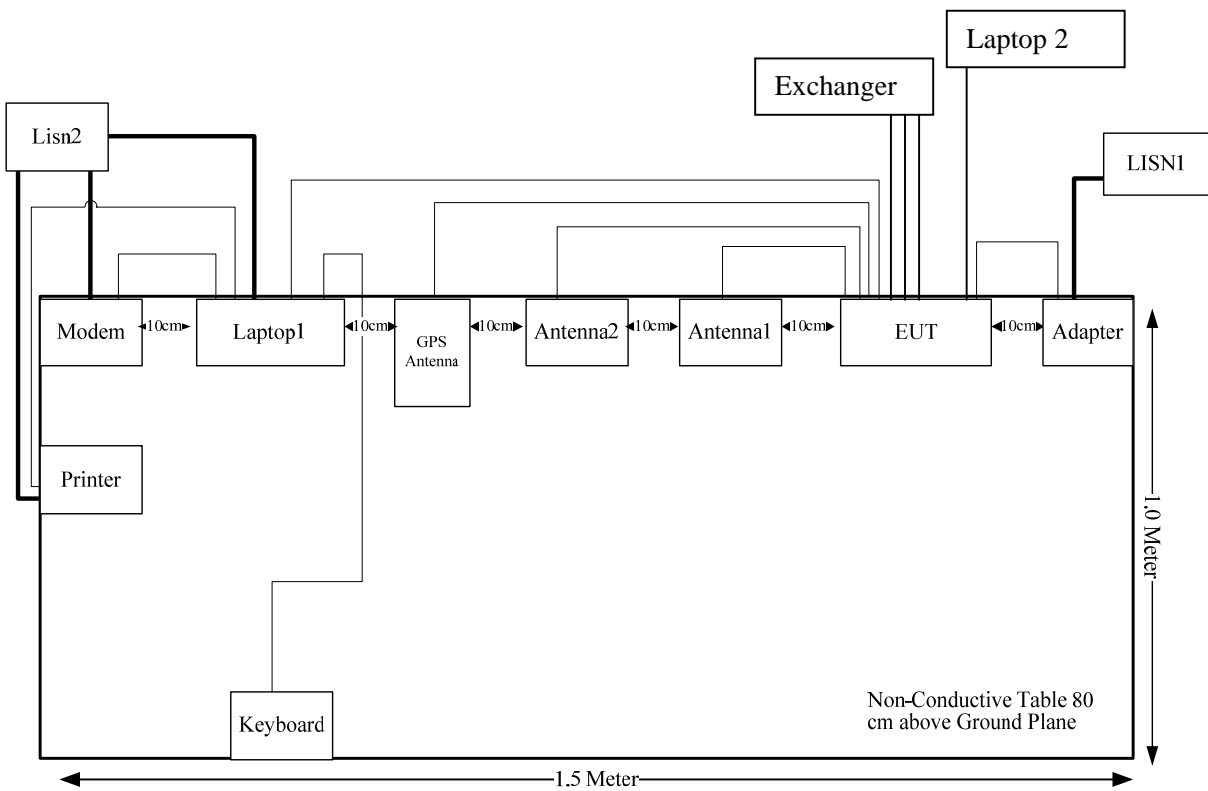
Equipment Modifications

No modification was made to the EUT.

EUT Exercise Software

No EUT software for testing.

Block Diagram of Test Setup



Support Equipment List and Details

Manufacturer	Description	Model	Serial Number
DELL	Laptop	PP11L	HLKYGB1
DELL	Laptop	PP11L	325GP71
TP-LINK	Exchanger	TL-SF1008P	114A297001782
HP	Printer	C3990A	JPZW030603
SAST	Modem	AEM-2100	90200213
DELL	Keyboard	SK-8115	CN-0DJ313-71616-05A-0DSO

Support Cable List and Details

Cable Description	Shielding Type	Ferrite Core	Length(m)	From Port	To
RJ45 Cable	No	No	0.8	RJ45 Port of EUT	Laptop 1
RJ45 Cable	No	No	5	RJ45 Port of EUT	Laptop 2
RJ45 Cable*3	No	No	2	RJ45 Port of EUT	Exchanger
Serial Cable	No	No	1.4	Serial Port of Laptop 1	Modem
USB Cable	No	No	2	USB Port of Laptop 1	Keyboard
Parallel Cable	No	No	1.4	Parallel Port of Laptop 1	Printer
Antenna Cable	No	No	1.5	Antenna Port of EUT	Antenna 1
Antenna Cable	No	No	1.5	Antenna Port of EUT	Antenna 2
GPS Antenna Cable	No	No	3	GPS Port of EUT	GPS Antenna
Power Cable	No	Yes	1.5	Power Port of EUT	Adapter

Test Equipment List

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	EMI Test Receiver	ESCS 30	830245/006	2017-12-11	2018-12-11
N/A	Coaxial Cable	C-NJNJ-50	C-0200-01	2017-09-05	2018-09-05
R&S	Test Software	EMC32	Version8.53.0	N/A	N/A
R&S	Two-line V-network	ENV 216	101614	2017-12-08	2018-12-08
R&S	EMI Test Receiver	ESCI	100035	2017-08-04	2018-08-04
Farad	Test Software	EZ-EMC	V1.1.4.2	N/A	N/A
Sunol Sciences	Antenna	JB3	A060611-3	2017-07-21	2019-07-21
Unknown	Coaxial Cable	C-NJNJ-50	C-0400-02	2017-09-05	2018-09-05
Unknown	Coaxial Cable	C-NJNJ-50	C-0075-02	2017-09-05	2018-09-05
Unknown	Coaxial Cable	C-NJNJ-50	C-2200-01	2017-09-05	2018-09-05
HP	Amplifier	8447F	2443A01912	2017-09-05	2018-09-05
R&S	Spectrum Analyzer	FSP 38	100478	2017-12-08	2018-12-08
ETS-Lindgren	Horn Antenna	3115	000 527 35	2016-01-05	2019-01-04
Ducommun Technologies	Horn Antenna	ARH-4223-02	1007726-01 1304	2016-11-18	2019-11-18
Ducommun Technologies	Horn Antenna	ARH-2823-02	1007726-01 1302	2016-11-18	2019-11-18
Unknown	Coaxial Cable	C-SJSJ-50	C-0800-01	2017-09-05	2018-09-05
Unknown	Coaxial Cable	C-2.4J2.4J-50	C-0700-02	2017-06-27	2018-06-27
MITEQ	Amplifier	AFS42-00101800-25-S-42	2001271	2017-09-05	2018-09-05
Quinstar	Amplifier	QLW-18405536-JO	15964001001	2017-06-27	2018-06-27

* Statement of Traceability: Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Environmental Conditions

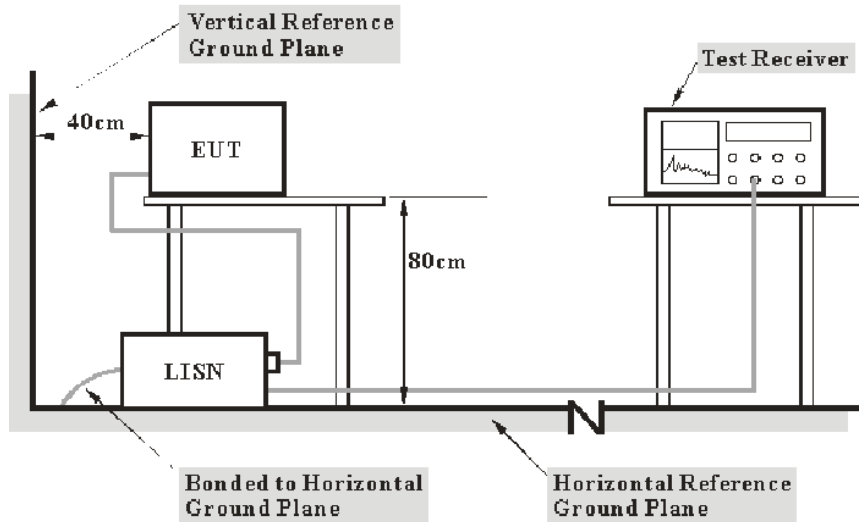
Temperature:	24.8~29.7 °C
Relative Humidity:	46~60 %
ATM Pressure:	100.8~ 101.5 kPa
Tester:	Sider Huang,
Test Date:	2018.05.02-2018.06.01

SUMMARY OF TEST RESULTS

SN	Rule and Clause	Description of Test	Test Result
1	FCC §15.107	Conducted emissions	Compliance
2	FCC §15.109	Radiated emissions	Compliance

1 - CONDUCTED EMISSIONS

EUT Setup



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

The setup of EUT is according with per ANSI C63.4-2014 measurement procedure. The specification used was with the FCC Part 15 B Class B limits.

The external I/O cables were draped along the test table and formed a bundle 30 to 40 cm long in the middle.

EMI Test Receiver Setup

The EMI test receiver was set to investigate the spectrum from 150 kHz to 30 MHz.

During the conducted emission test, the EMI test receiver was set with the following configurations:

Frequency Range	IF B/W
150 kHz – 30 MHz	9 kHz

Test Procedure

During the conducted emission test, the adapter was connected to the outlet of the first LISN and the other support equipments were connected to the outlet of the second LISN.

Maximizing procedure was performed on the six (6) highest emissions of the EUT.

All data was recorded in the Quasi-peak and average detection mode.

Corrected Amplitude & Margin Calculation

The basic equation is as follows:

Result (QuasiPeak or Average) = Meter Reading + Corr.

Note:

Corr. = Cable loss + Factor of coupling device

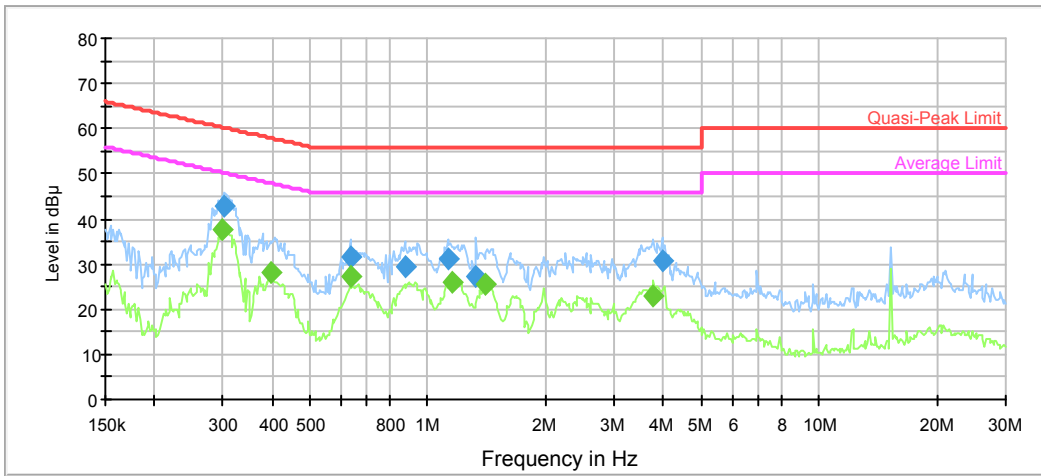
The “**Margin**” column of the following data tables indicates the degree of compliance within the applicable limit. For example, a margin of 7dB means the emission is 7dB below the maximum limit. The equation for margin calculation is as follows:

Margin = Limit – Result

Test Data

Please refer to following table and plots:

Model Number: UR55
 Port: L
 Test Mode: Data communication
 Power Source: AC 120V/60Hz



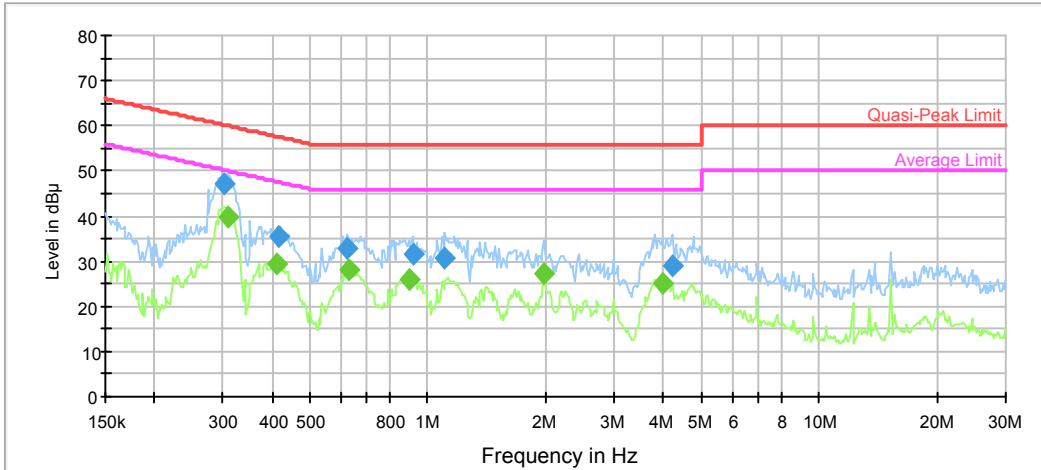
Final Result 1

Frequency (MHz)	QuasiPeak (dBµV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.302425	42.9	9.000	L1	10.1	17.3	60.2
0.634524	31.4	9.000	L1	9.8	24.6	56.0
0.872708	29.4	9.000	L1	9.8	26.6	56.0
1.126176	31.1	9.000	L1	9.8	24.9	56.0
1.331304	27.2	9.000	L1	9.7	28.8	56.0
3.966160	30.6	9.000	L1	9.8	25.4	56.0

Final Result 2

Frequency (MHz)	Average (dBµV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.297644	37.8	9.000	L1	10.2	12.5	50.3
0.396530	28.1	9.000	L1	10.0	19.8	47.9
0.634524	27.1	9.000	L1	9.8	18.9	46.0
1.153421	26.0	9.000	L1	9.8	20.0	46.0
1.407671	25.4	9.000	L1	9.7	20.6	46.0
3.781003	23.1	9.000	L1	9.8	22.9	46.0

Model Number: UR55
 Port: N
 Test Mode: Data communication
 Power Source: AC 120V/60Hz



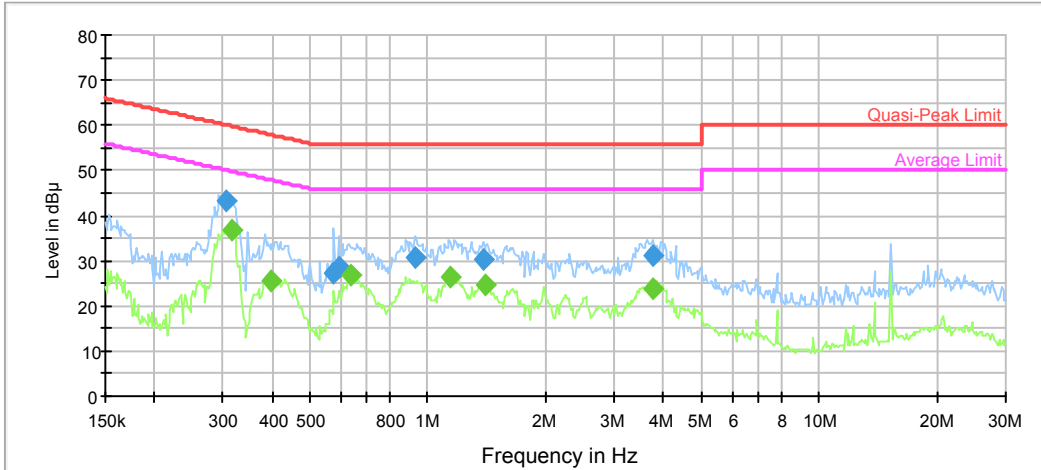
Final Result 1

Frequency (MHz)	QuasiPeak (dBµV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.302425	47.0	9.000	N	10.1	13.2	60.2
0.415949	35.4	9.000	N	10.0	22.2	57.5
0.624492	32.9	9.000	N	9.8	23.1	56.0
0.915445	31.4	9.000	N	9.8	24.6	56.0
1.108371	30.5	9.000	N	9.8	25.5	56.0
4.227217	28.8	9.000	N	9.8	27.2	56.0

Final Result 2

Frequency (MHz)	Average (dBµV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.309742	39.7	9.000	N	10.1	10.3	50.0
0.409372	29.3	9.000	N	10.0	18.4	47.7
0.629488	28.0	9.000	N	9.8	18.0	46.0
0.893821	25.8	9.000	N	9.8	20.2	46.0
1.982914	27.1	9.000	N	9.7	18.9	46.0
3.966160	25.2	9.000	N	9.8	20.8	46.0

Model Number: UR52
 Port: L
 Test Mode: Data communication
 Power Source: AC 120V/60Hz



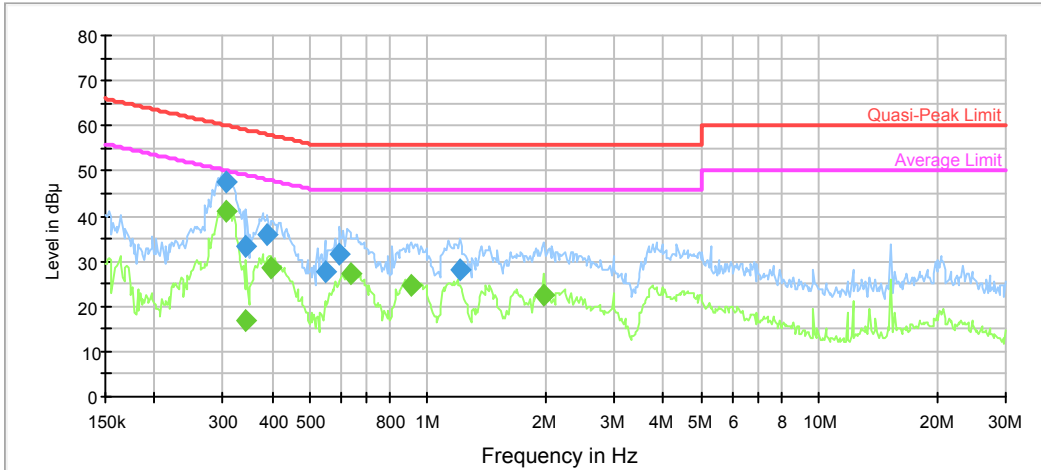
Final Result 1

Frequency (MHz)	QuasiPeak (dBµV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.304845	43.0	9.000	L1	10.1	17.1	60.1
0.576662	27.3	9.000	L1	9.8	28.7	56.0
0.590613	28.4	9.000	L1	9.8	27.6	56.0
0.930151	30.6	9.000	L1	9.8	25.4	56.0
1.385415	30.4	9.000	L1	9.7	25.6	56.0
3.750995	31.0	9.000	L1	9.8	25.0	56.0

Final Result 2

Frequency (MHz)	Average (dBµV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.317235	36.9	9.000	L1	10.1	12.9	49.8
0.399703	25.6	9.000	L1	10.0	22.3	47.9
0.634524	26.7	9.000	L1	9.8	19.3	46.0
1.144267	26.5	9.000	L1	9.8	19.5	46.0
1.407671	24.8	9.000	L1	9.7	21.2	46.0
3.781003	23.8	9.000	L1	9.8	22.2	46.0

Model Number: UR52
 Port: N
 Test Mode: Data communication
 Power Source: AC 120V/60Hz



Final Result 1

Frequency (MHz)	QuasiPeak (dBμV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.304845	47.5	9.000	N	10.1	12.6	60.1
0.343548	33.2	9.000	N	10.1	25.9	59.1
0.390261	36.1	9.000	N	10.0	22.0	58.1
0.545378	27.6	9.000	N	9.9	28.4	56.0
0.595338	31.6	9.000	N	9.8	24.4	56.0
1.209904	28.0	9.000	N	9.8	28.0	56.0

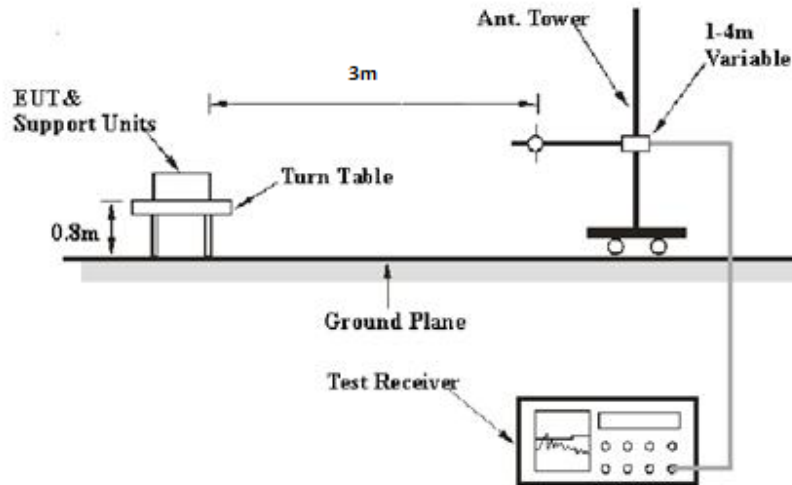
Final Result 2

Frequency (MHz)	Average (dBμV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.304845	41.2	9.000	N	10.1	8.9	50.1
0.343548	17.0	9.000	N	10.1	32.1	49.1
0.399703	28.6	9.000	N	10.0	19.3	47.9
0.634524	27.1	9.000	N	9.8	18.9	46.0
0.908180	24.5	9.000	N	9.8	21.5	46.0
1.982914	22.6	9.000	N	9.7	23.4	46.0

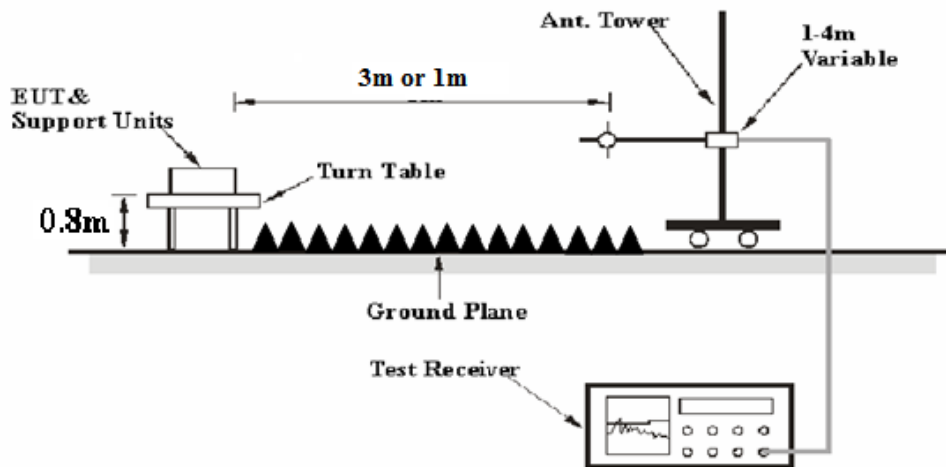
2 - RADIATED EMISSIONS

EUT Setup

Below 1GHz:



Above 1GHz:



The radiated emission tests were performed at the 3 meters for below 1G, 1GHz to 26.5GHz tests were performed in the 3 meters and 26.5GHz to 40GHz tests were performed in the 1 meter, using the setup accordance with the ANSI C63.4-2014. The specification used was the FCC Part 15.109 Class B limits.

EMI Test Receiver Setup

The system was investigated from 30 MHz to 40 GHz.

During the radiated emission test, the EMI test receiver was set with the following configurations:

Frequency Range	RBW	Video B/W	IF B/W	Detector
30 MHz – 1000 MHz	120 kHz	300 kHz	120 kHz	QP
Above 1 GHz	1 MHz	3 MHz	/	Peak
	1 MHz	Reduced video bandwidth	/	Peak

Test Procedure

During the radiated emissions, the adapter was connected to the first AC floor outlet and the other support equipments were connected to the second AC floor outlet.

Maximizing procedure was performed on the highest emissions to ensure that the EUT complied with all installation combinations.

The data was recorded in the Quasi-peak detection mode for below 1 GHz, peak and average detection mode above 1 GHz.

According to C63.4, the above 1G test result shall be extrapolated to the specified distance using an extrapolation factor of 20dB/decade from 3m to 1 m

Distance extrapolation factor = $20 \log(\text{specific distance [3m]}/\text{test distance [1m]})$ dB = 9.54 dB

All emissions under the average limit and under the noise floor have not recorded in the report.

Corrected Amplitude & Margin Calculation

The basic equation is as follows:

Result = Meter Reading + Corrected

Note:

Corrected = Antenna Factor + Cable Loss - Amplifier Gain

or

Corrected = Antenna Factor + Cable Loss + Insertion loss of attenuator - Amplifier Gain

The “**Margin**” column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of 7 dB means the emission is 7 dB below the limit. The equation for margin calculation

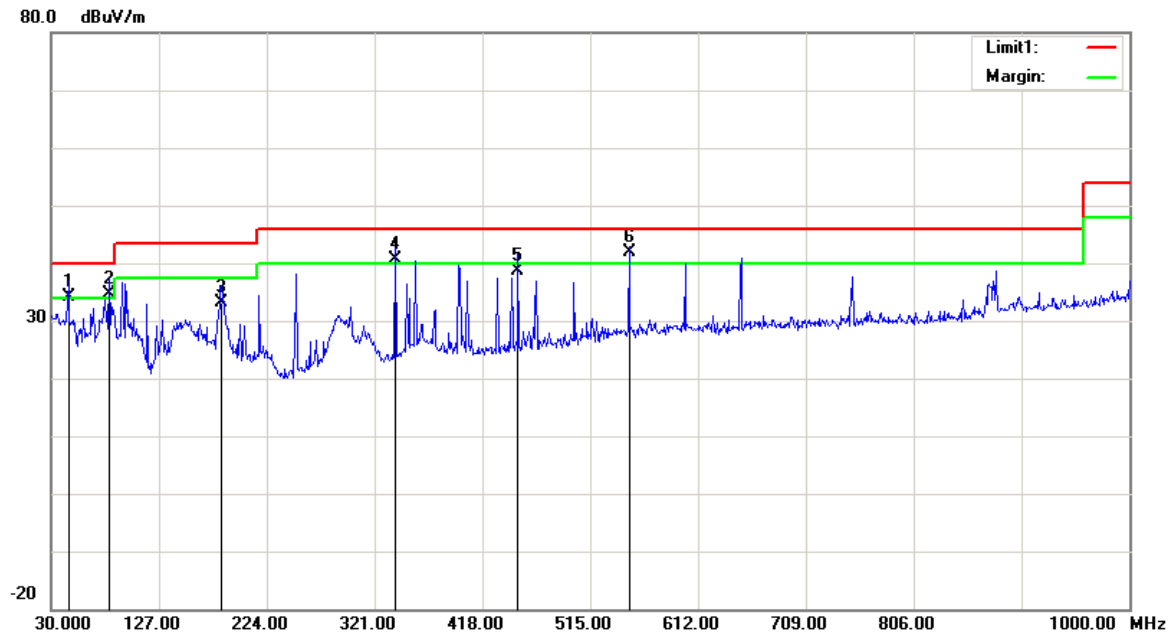
is as follows:

$$\text{Margin} = \text{Limit} - \text{Result}$$

Test Data

Please refer to following table and plots:

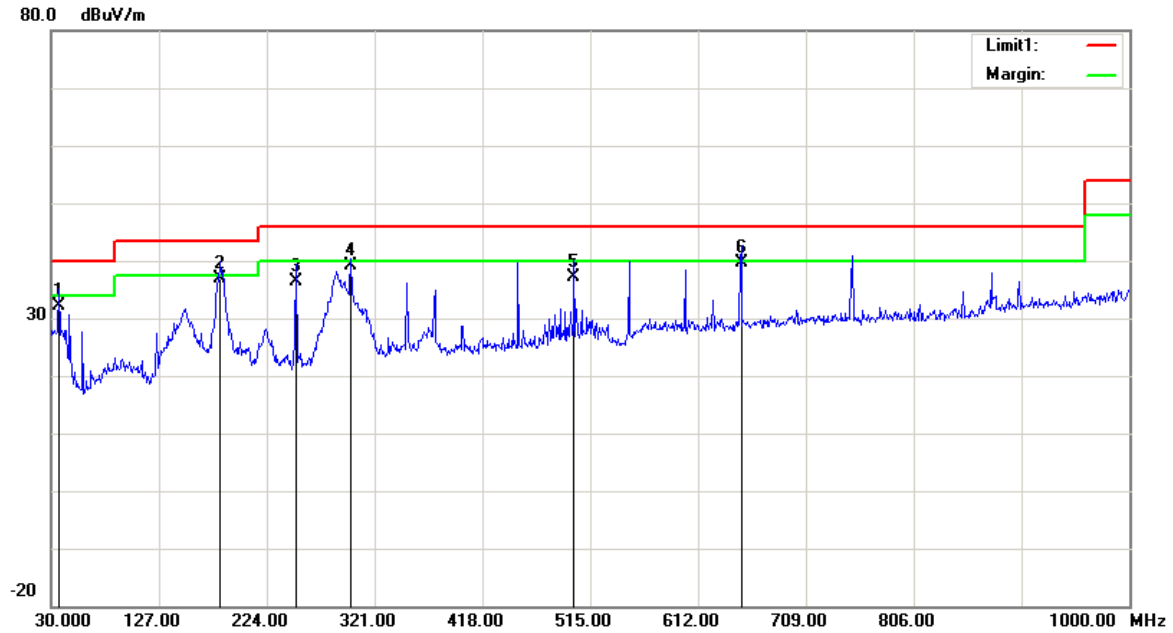
Condition:	FCC Class B 3m Radiation	Polarization:	Vertical
EUT:	Industrial Cellular Router	Power:	AC 120V/60Hz
Model:	UR55	Distance:	3m
Test Mode:	Data communication		
Note:			



No.	Frequency (MHz)	Reading (dBμV)	Detector	Corrected dB/m	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
1	45.5200	44.53	QP	-10.33	34.20	40.00	5.80
2	82.3800	48.02	QP	-13.32	34.70	40.00	5.30
3	183.2600	40.86	QP	-7.75	33.10	43.50	10.40
4	339.4300	44.47	QP	-3.86	40.60	46.00	5.40
5	450.0100	40.24	QP	-1.51	38.70	46.00	7.30
6	549.9200	40.01	QP	1.76	41.80	46.00	4.20

Condition: FCC Class B 3m Radiation
EUT: Industrial Cellular Router
Model: UR55
Test Mode: Data communication
Note:

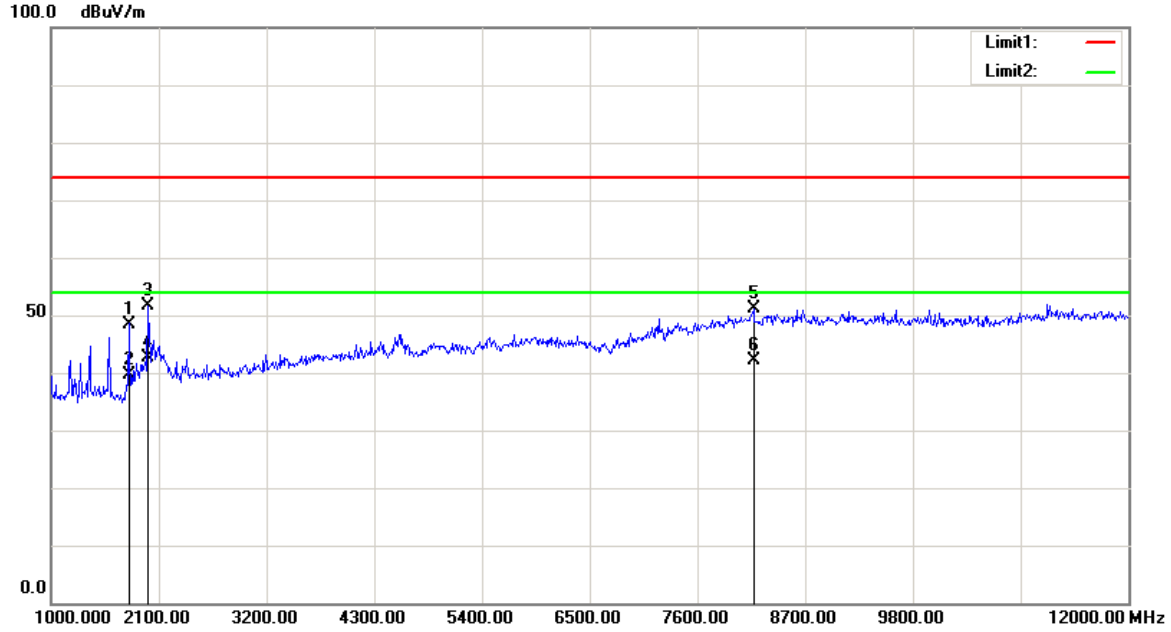
Polarization: Horizontal
Power: AC 120V/60Hz
Distance: 3m



No.	Frequency (MHz)	Reading (dBμV)	Detector	Corrected dB/m	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
1	36.7900	37.52	QP	-5.30	32.20	40.00	7.80
2	182.2900	44.46	QP	-7.68	36.70	43.50	6.80
3	250.1900	43.94	QP	-7.59	36.40	46.00	9.60
4	299.6600	44.27	QP	-5.02	39.30	46.00	6.70
5	500.4500	37.21	QP	-0.15	37.10	46.00	8.90
6	650.8000	36.16	QP	3.52	39.70	46.00	6.30

Condition: FCC Part 15 Class B
EUT: Industrial Cellular Router
Model: UR55
Test Mode: Data communication
Note:

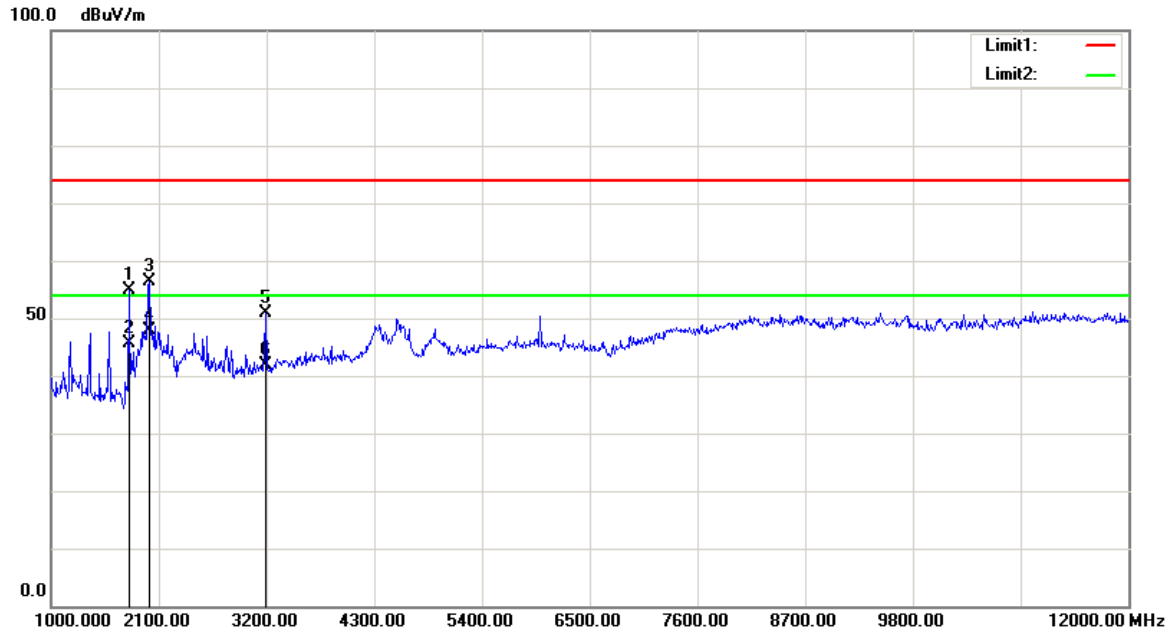
Polarization: Horizontal
Power: AC 120V/60Hz
Distance: 3m



No.	Frequency (MHz)	Reading (dB μ V)	Detector	Corrected dB/m	Result (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
1	1797.500	56.29	peak	-7.79	48.50	74.00	25.50
2	1797.500	47.44	AVG	-7.79	39.65	54.00	14.35
3	1995.500	58.87	peak	-7.19	51.68	74.00	22.32
4	1995.500	49.92	AVG	-7.19	42.73	54.00	11.27
5	8172.000	46.05	peak	5.05	51.10	74.00	22.90
6	8172.000	37.10	AVG	5.05	42.15	54.00	11.85

Condition: FCC Part 15 Class B
EUT: Industrial Cellular Router
Model: UR55
Test Mode: Data communication
Note:

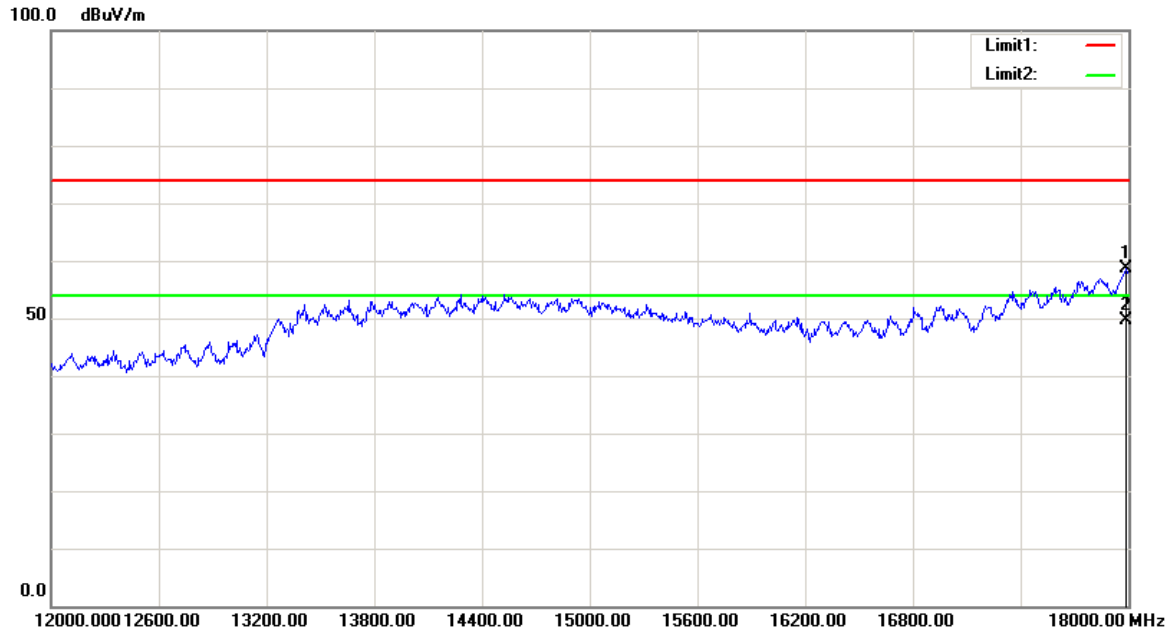
Polarization: Vertical
Power: AC 120V/60Hz
Distance: 3m



No.	Frequency (MHz)	Reading (dBμV)	Detector	Corrected dB/m	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
1	1797.500	62.73	peak	-7.79	54.94	74.00	19.06
2	1797.500	53.52	AVG	-7.79	45.73	54.00	8.27
3	2001.000	63.65	peak	-7.18	56.47	74.00	17.53
4	2001.000	55.03	AVG	-7.18	47.85	54.00	6.15
5	3189.000	55.00	peak	-4.23	50.77	74.00	23.23
6	3189.000	46.05	AVG	-4.23	41.82	54.00	12.18

Condition: FCC Part 15 Class B
 EUT: Industrial Cellular Router
 Model: UR55
 Test Mode: Data communication
 Note:

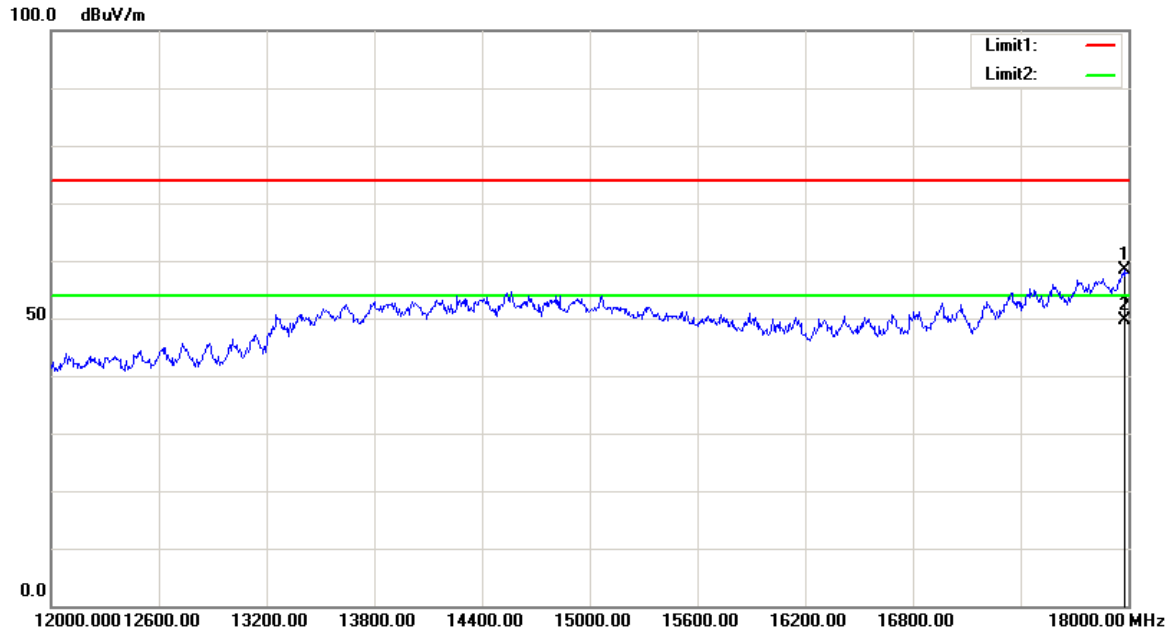
Polarization: Horizontal
 Power: AC 120V/60Hz
 Distance: 3m



No.	Frequency (MHz)	Reading (dBµV)	Detector	Corrected dB/m	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)
1	17988.000	41.62	peak	17.07	58.69	74.00	15.31
2	17988.000	32.66	AVG	17.07	49.73	54.00	4.27

Condition: FCC Part 15 Class B
EUT: Industrial Cellular Router
Model: UR55
Test Mode: Data communication
Note:

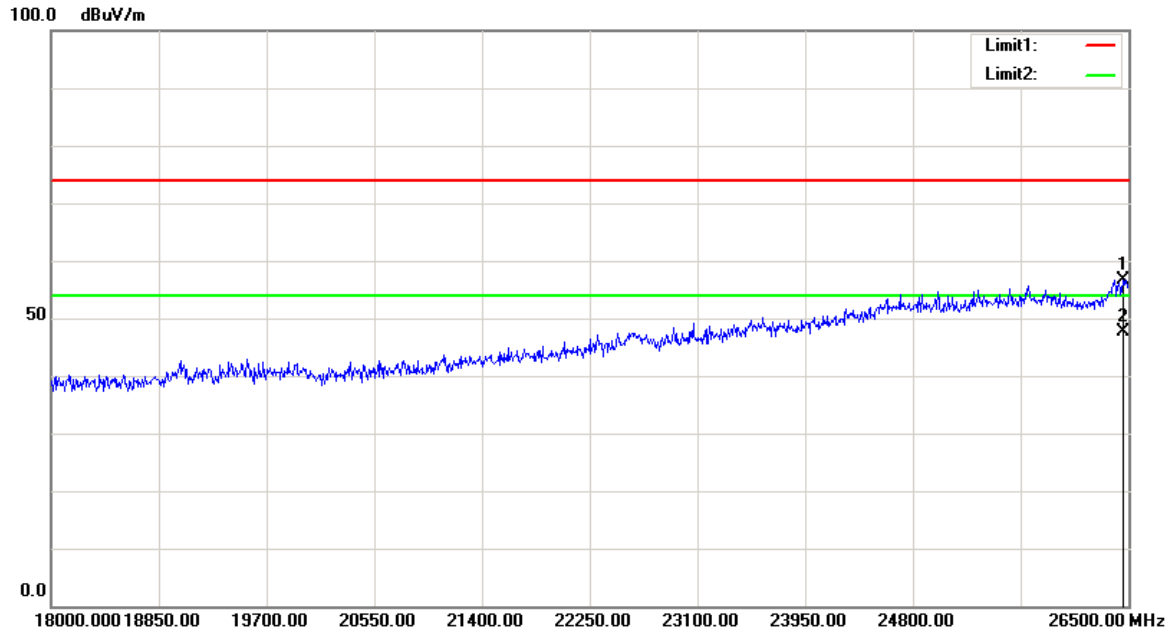
Polarization: Vertical
Power: AC 120V/60Hz
Distance: 3m



No.	Frequency (MHz)	Reading (dBµV)	Detector	Corrected dB/m	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)
1	17982.000	41.47	peak	17.02	58.49	74.00	15.51
2	17982.000	32.70	AVG	17.02	49.72	54.00	4.28

Condition: FCC Part 15 Class B
EUT: Industrial Cellular Router
Model: UR55
Test Mode: Data communication
Note:

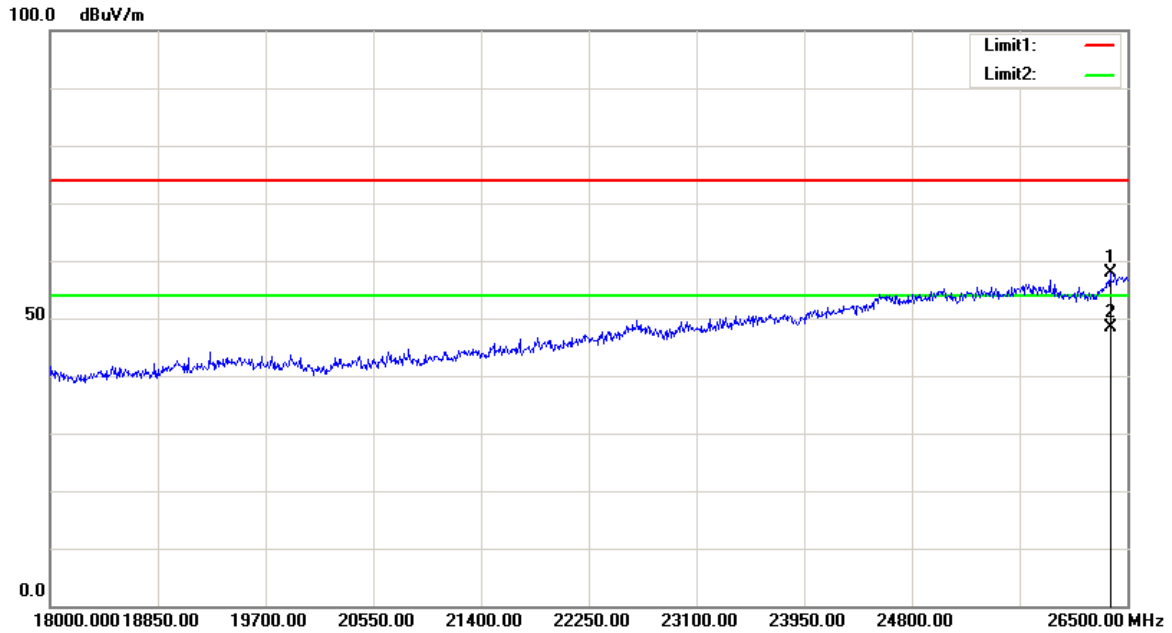
Polarization: Horizontal
Power: AC 120V/60Hz
Distance: 3m



No.	Frequency (MHz)	Reading (dBµV)	Detector	Corrected (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)
1	26461.750	34.99	peak	21.67	56.66	74.00	17.34
2	26461.750	26.06	AVG	21.67	47.73	54.00	6.27

Condition: FCC Part 15 Class B
EUT: Industrial Cellular Router
Model: UR55
Test Mode: Data communication
Note:

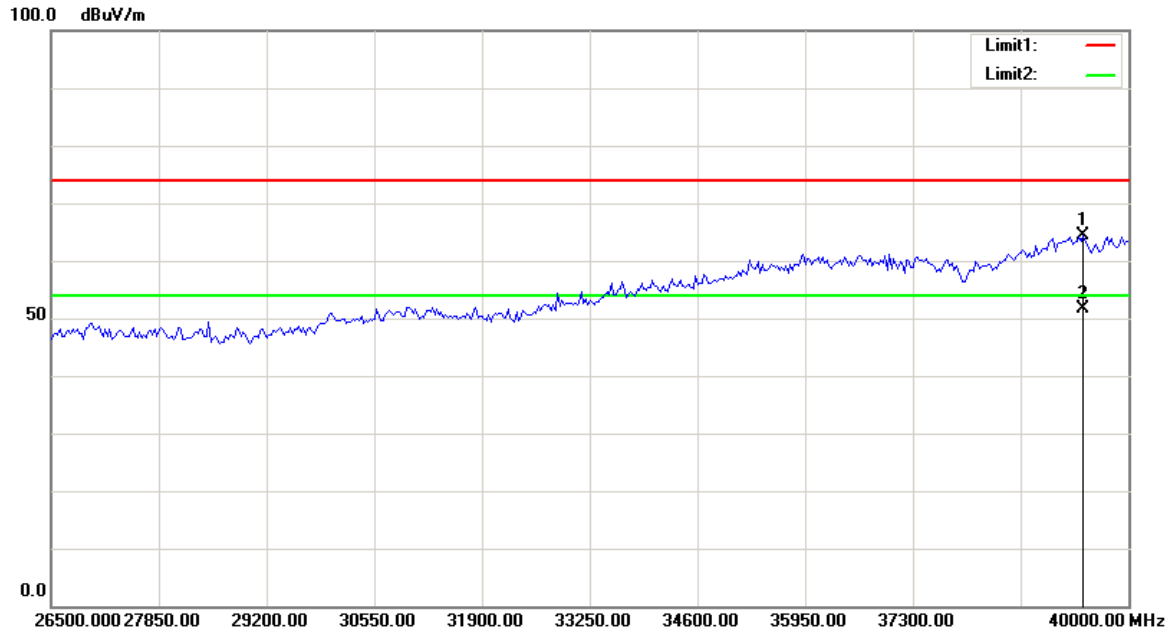
Polarization: Vertical
Power: AC 120V/60Hz
Distance: 3m



No.	Frequency (MHz)	Reading (dBµV)	Detector	Corrected (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)
1	26368.250	36.71	peak	21.27	57.98	74.00	16.02
2	26368.250	27.05	AVG	21.27	48.32	54.00	5.68

Condition: FCC Part 15 Class B
EUT: Industrial Cellular Router
Model: UR55
Test Mode: Data communication
Note:

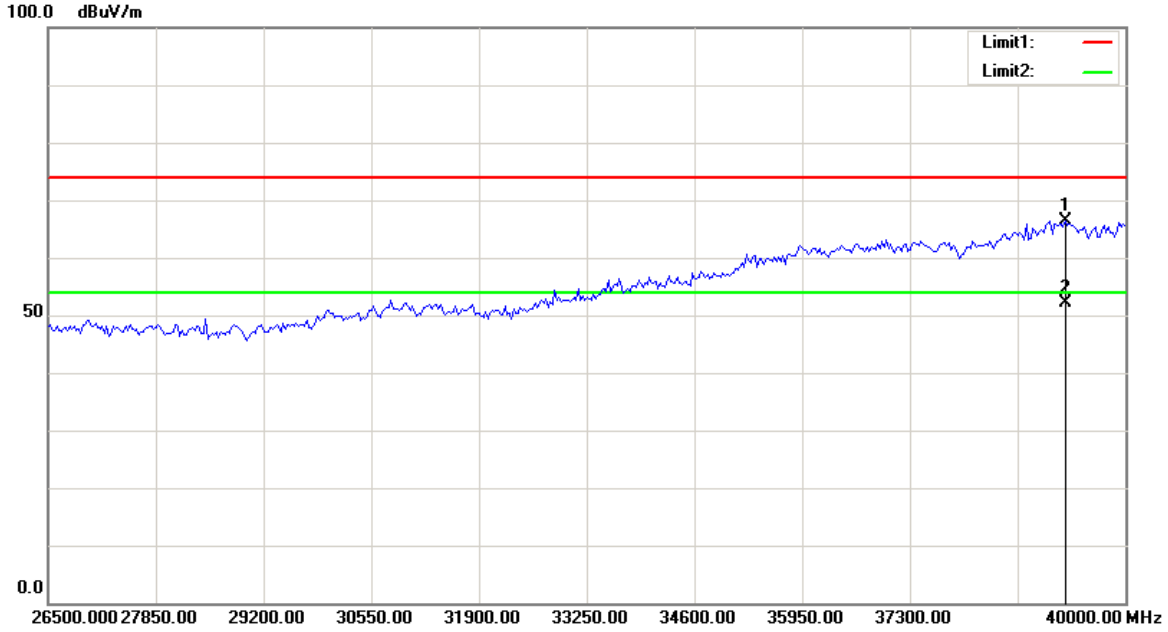
Polarization: Horizontal
Power: AC 120V/60Hz
Distance: 1m



No.	Frequency (MHz)	Reading (dBµV)	Detector	Corrected dB/m	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)
1	39433.000	48.38	peak	15.90	64.28	74.00	9.72
2	39433.000	35.84	AVG	15.90	51.74	54.00	2.26

Condition: FCC Part 15 Class B
EUT: Industrial Cellular Router
Model: UR55
Test Mode: Data communication
Note:

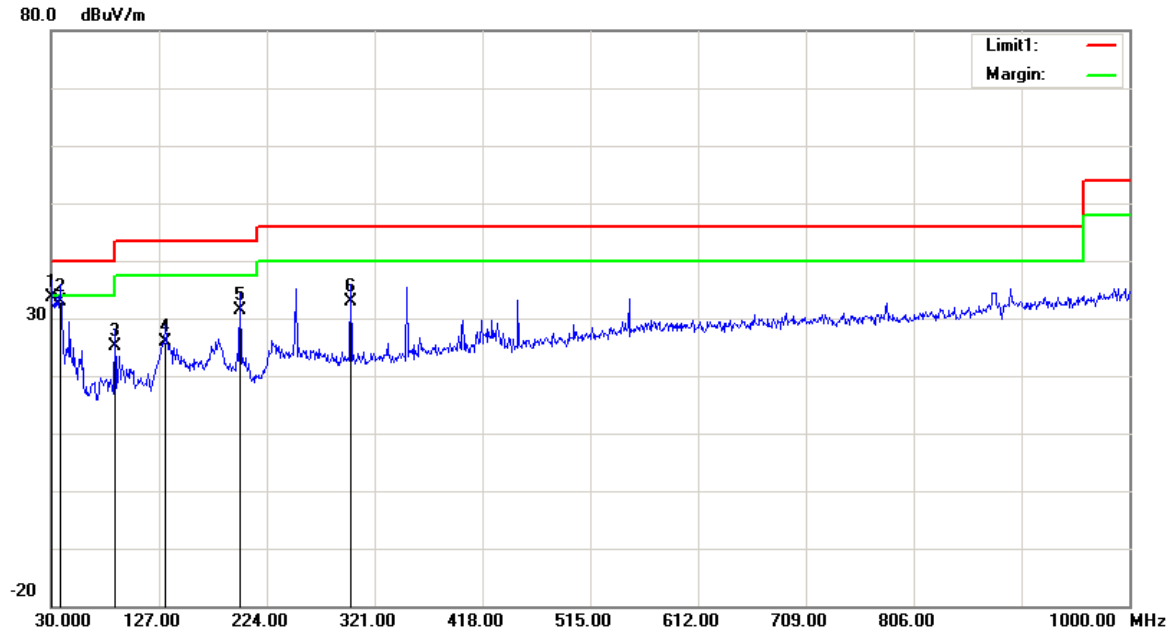
Polarization: Vertical
Power: AC 120V/60Hz
Distance: 1m



No.	Frequency (MHz)	Reading (dBμV)	Detector	Corrected dB/m	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
1	39244.000	50.41	peak	15.99	66.40	74.00	7.60
2	39244.000	36.19	AVG	15.99	52.18	54.00	1.82

Condition: FCC Class B 3m Radiation
EUT: Industrial Cellular Router
Model: UR52
Test Mode: Data communication
Note:

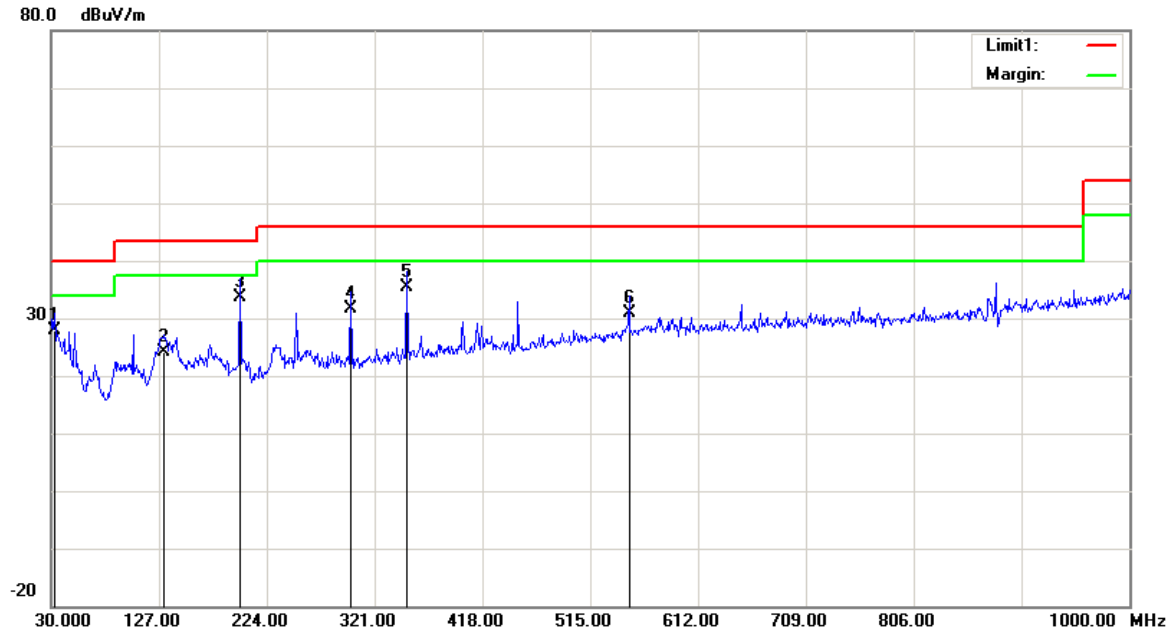
Polarization: Horizontal
Power: AC 120V/60Hz
Distance: 3m



No.	Frequency (MHz)	Reading (dBμV)	Detector	Corrected dB/m	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
1	30.0000	35.62	QP	-1.99	33.60	40.00	6.40
2	37.7600	38.66	QP	-5.76	32.90	40.00	7.10
3	87.2300	38.00	QP	-12.92	25.10	40.00	14.90
4	132.8200	33.00	QP	-7.16	25.80	43.50	17.70
5	199.7500	38.31	QP	-6.86	31.50	43.50	12.00
6	299.6600	37.98	QP	-5.02	32.90	46.00	13.10

Condition: FCC Class B 3m Radiation
EUT: Industrial Cellular Router
Model: UR52
Test Mode: Data communication
Note:

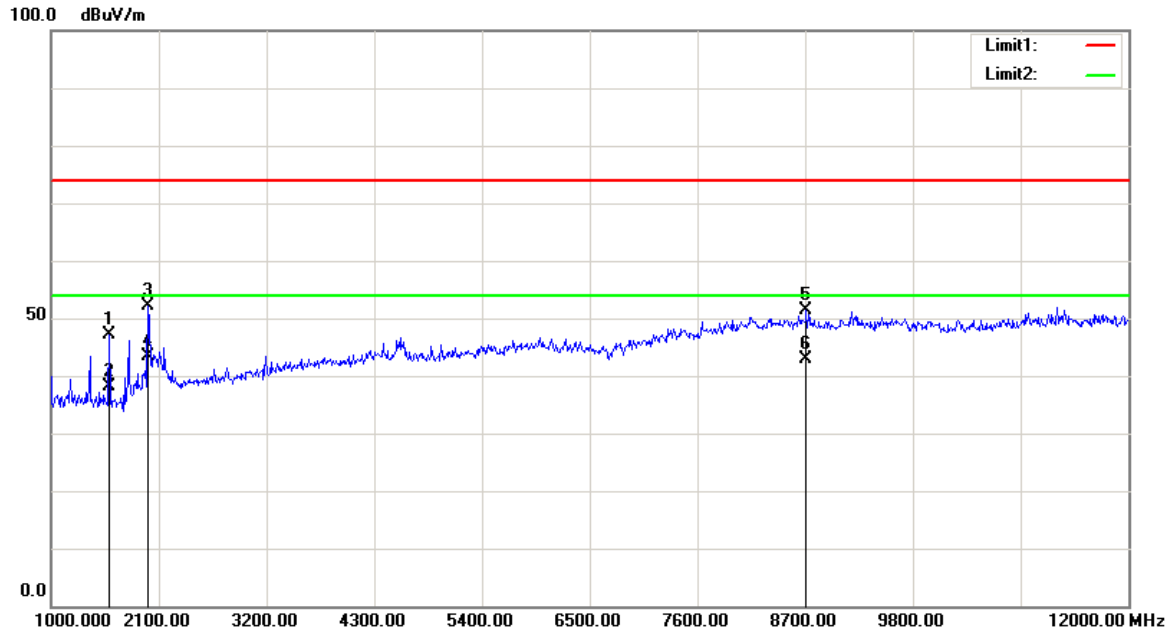
Polarization: Vertical
Power: AC 120V/60Hz
Distance: 3m



No.	Frequency (MHz)	Reading (dB μ V)	Detector	Corrected dB/m	Result (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
1	32.9100	31.30	QP	-3.42	27.90	40.00	12.10
2	131.8500	31.32	QP	-7.21	24.10	43.50	19.40
3	199.7500	40.40	QP	-6.86	33.50	43.50	10.00
4	299.6600	36.65	QP	-5.02	31.60	46.00	14.40
5	350.1000	38.91	QP	-3.59	35.30	46.00	10.70
6	549.9200	29.16	QP	1.76	30.90	46.00	15.10

Condition: FCC Part 15 Class B
EUT: Industrial Cellular Router
Model: UR52
Test Mode: Data communication
Note:

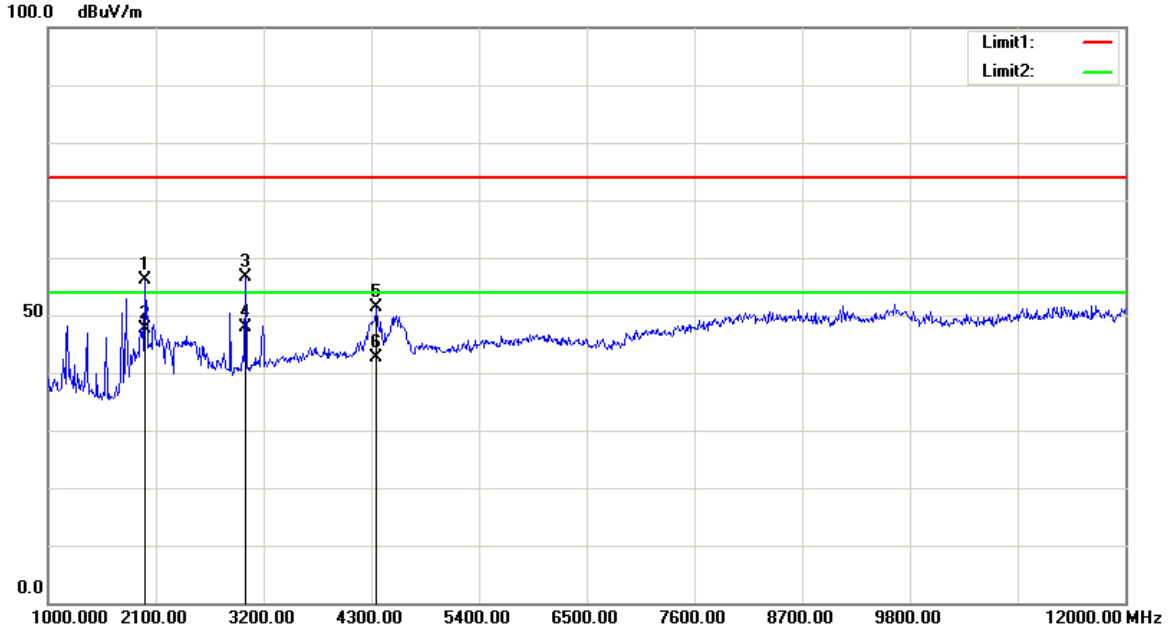
Polarization: Horizontal
Power: AC 120V/60Hz
Distance: 3m



No.	Frequency (MHz)	Reading (dBμV)	Detector	Corrected dB/m	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
1	1594.000	55.95	peak	-8.74	47.21	74.00	26.79
2	1594.000	46.90	AVG	-8.74	38.16	54.00	15.84
3	1995.500	59.35	peak	-7.19	52.16	74.00	21.84
4	1995.500	50.57	AVG	-7.19	43.38	54.00	10.62
5	8711.000	45.54	peak	5.80	51.34	74.00	22.66
6	8711.000	37.05	AVG	5.80	42.85	54.00	11.15

Condition: FCC Part 15 Class B
EUT: Industrial Cellular Router
Model: UR52
Test Mode: Data communication
Note:

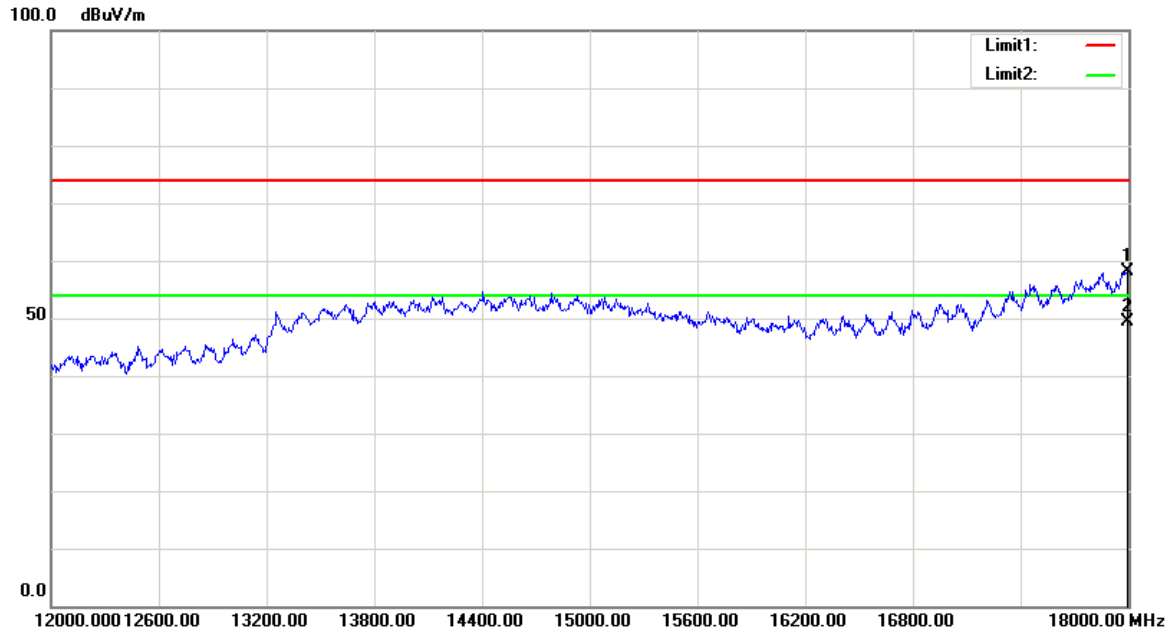
Polarization: Vertical
Power: AC 120V/60Hz
Distance: 3m



No.	Frequency (MHz)	Reading (dBμV)	Detector	Corrected dB/m	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
1	1990.000	63.39	peak	-7.22	56.17	74.00	17.83
2	1990.000	54.74	AVG	-7.22	47.52	54.00	6.48
3	3013.000	61.36	peak	-4.76	56.60	74.00	17.40
4	3013.000	52.59	AVG	-4.76	47.83	54.00	6.17
5	4360.500	53.28	peak	-1.83	51.45	74.00	22.55
6	4360.500	44.48	AVG	-1.83	42.65	54.00	11.35

Condition: FCC Part 15 Class B(Peak)
EUT: Industrial Cellular Router
Model: UR52
Test Mode: Data communication
Note:

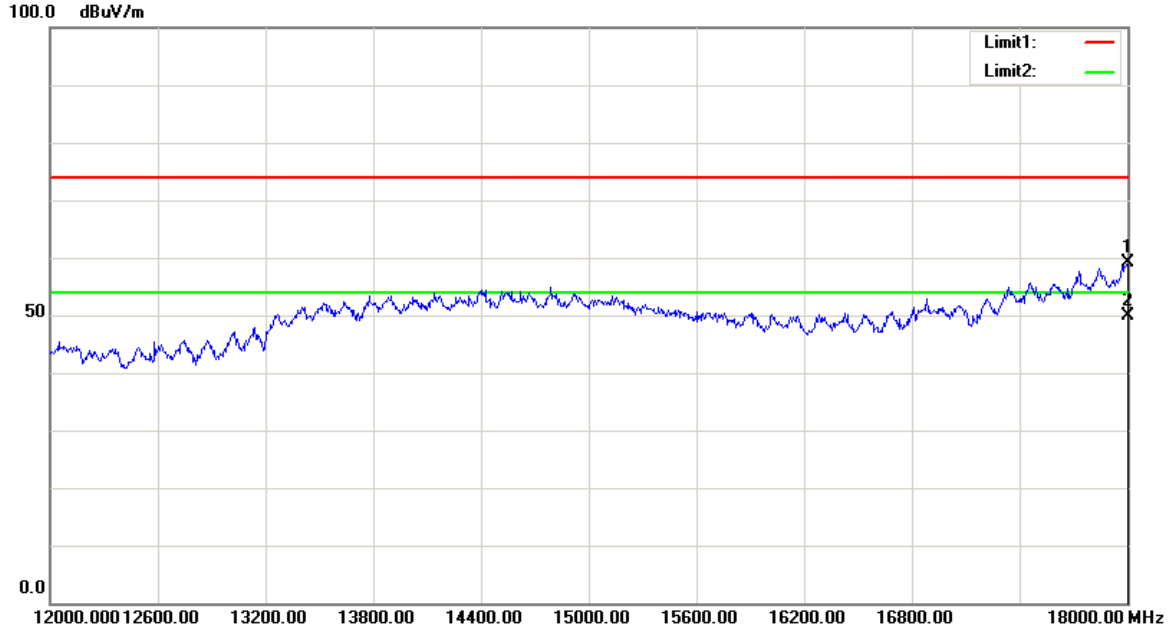
Polarization: Horizontal
Power: AC 120V/60Hz
Distance: 3m



No.	Frequency (MHz)	Reading (dBµV)	Detector	Corrected dB/m	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)
1	17994.000	41.05	peak	17.10	58.15	74.00	15.85
2	17994.000	32.26	AVG	17.10	49.36	54.00	4.64

Condition: FCC Part 15 Class B
EUT: Industrial Cellular Router
Model: UR52
Test Mode: Data communication
Note:

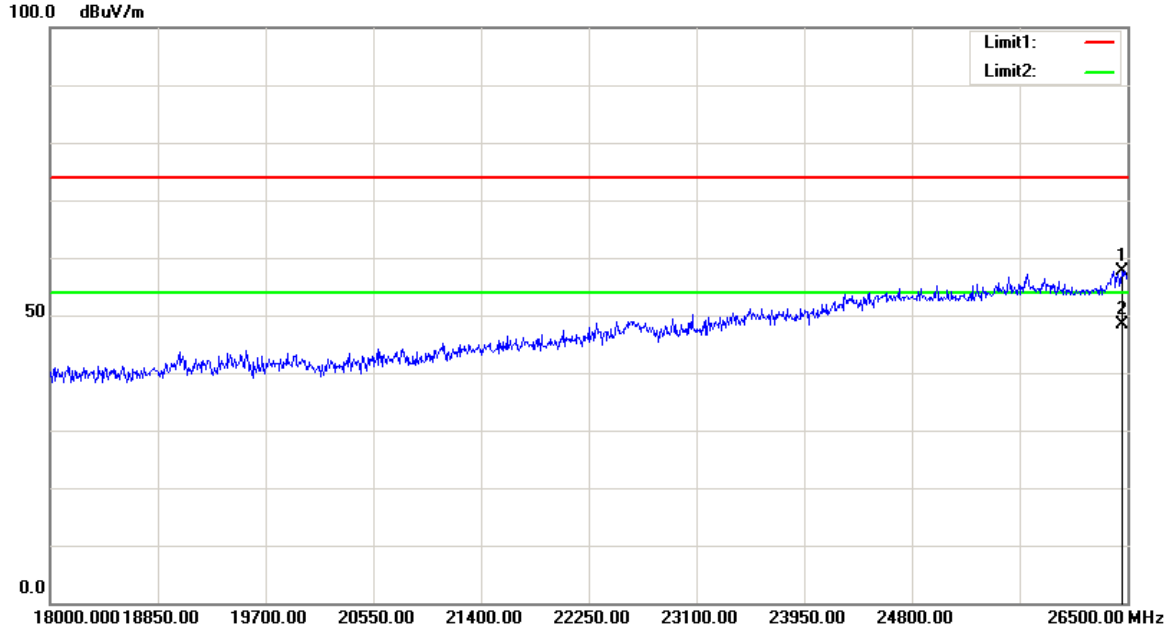
Polarization: Vertical
Power: AC 120V/60Hz
Distance: 3m



No.	Frequency (MHz)	Reading (dBµV)	Detector	Corrected dB/m	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)
1	18000.000	41.97	peak	17.15	59.12	74.00	14.88
2	18000.000	32.72	AVG	17.15	49.87	54.00	4.13

Condition: FCC Part 15 Class B
EUT: Industrial Cellular Router
Model: UR52
Test Mode: Data communication
Note:

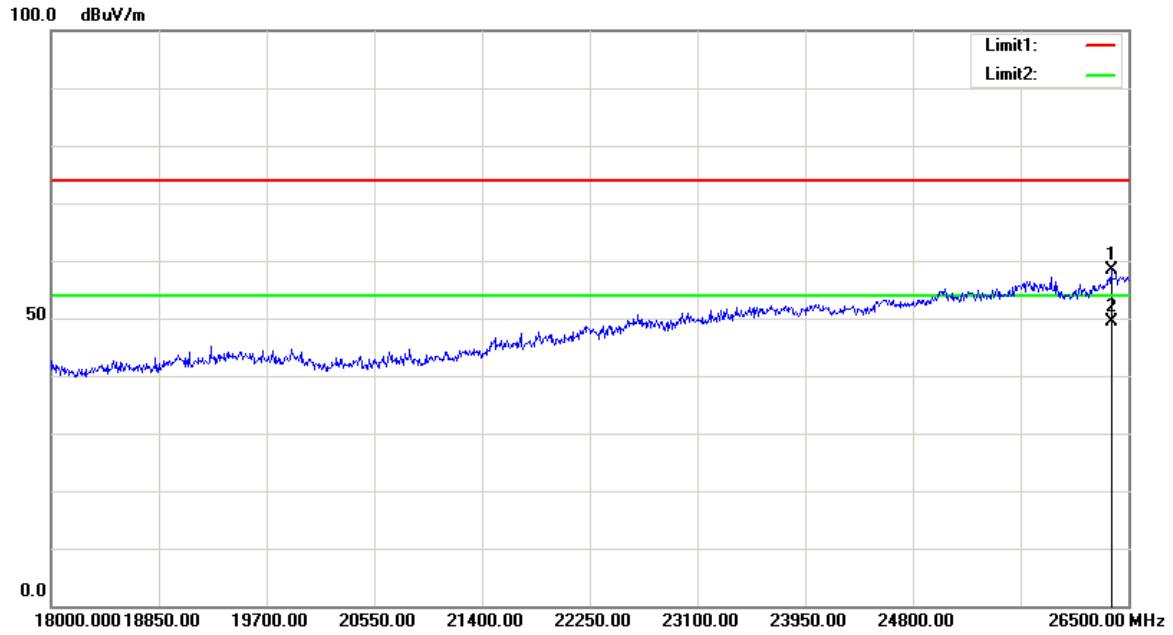
Polarization: Horizontal
Power: AC 120V/60Hz
Distance: 3m



No.	Frequency (MHz)	Reading (dBμV)	Detector	Corrected dB/m	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
1	26461.750	35.99	peak	21.67	57.66	74.00	16.34
2	26461.750	26.70	AVG	21.67	48.37	54.00	5.63

Condition: FCC Part 15 Class B
EUT: Industrial Cellular Router
Model: UR52
Test Mode: Data communication
Note:

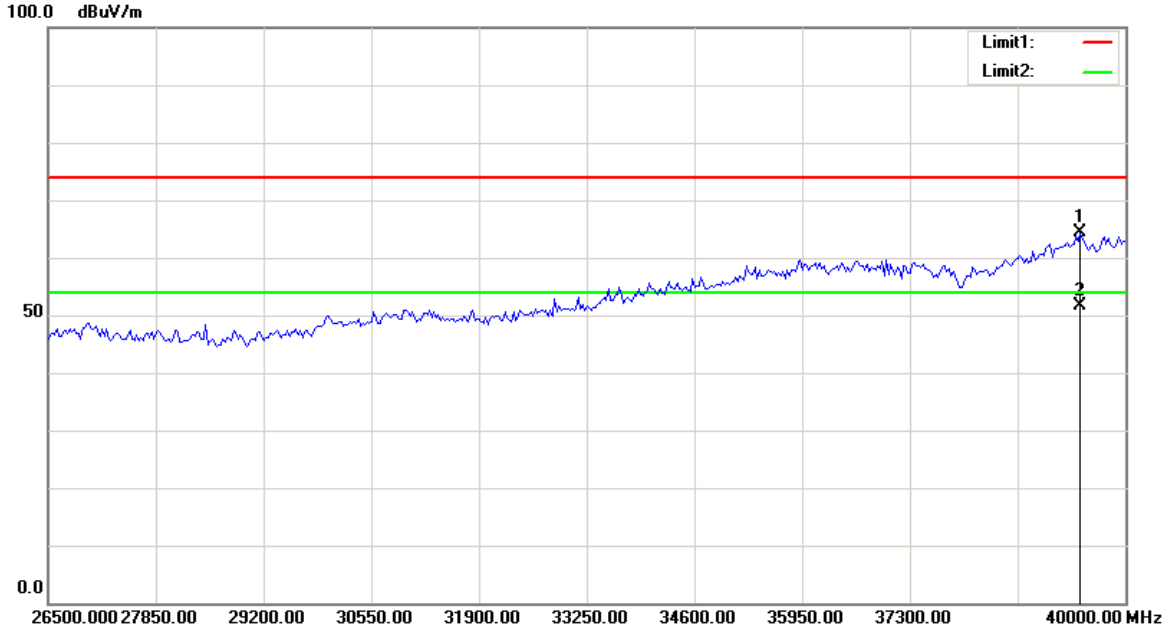
Polarization: Vertical
Power: AC 120V/60Hz
Distance: 3m



No.	Frequency (MHz)	Reading (dBμV)	Detector	Corrected dB/m	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
1	26368.250	37.21	peak	21.27	58.48	74.00	15.52
2	26368.250	28.08	AVG	21.27	49.35	54.00	4.65

Condition: FCC Part 15 Class B
EUT: Industrial Cellular Router
Model: UR52
Test Mode: Data communication
Note:

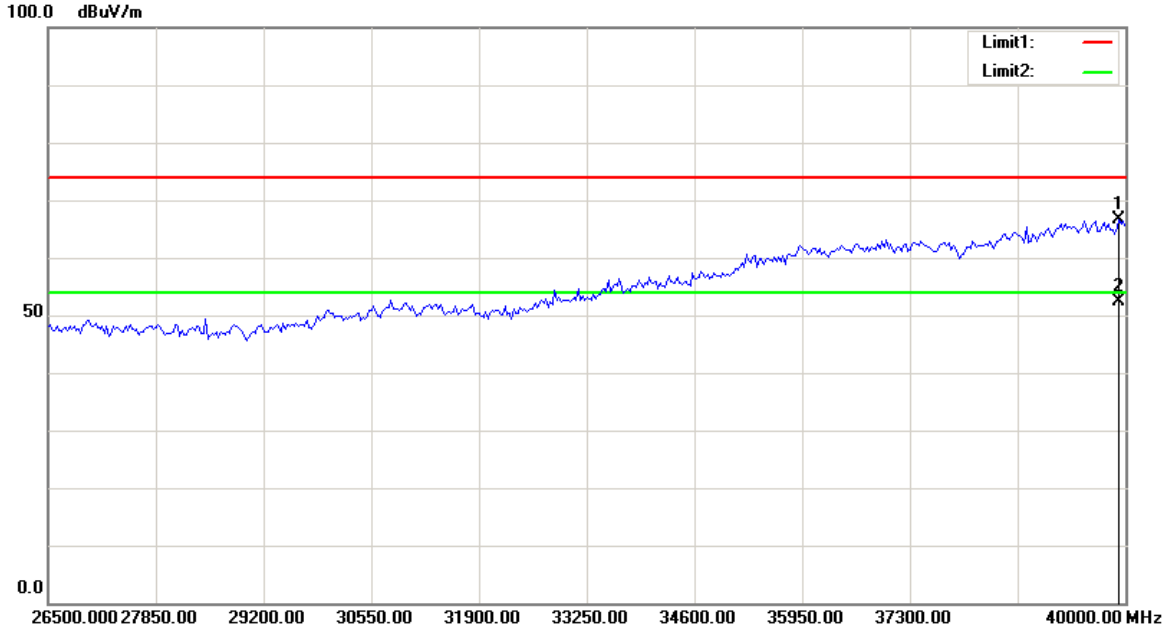
Polarization: Horizontal
Power: AC 120V/60Hz
Distance: 1m



No.	Frequency (MHz)	Reading (dBµV)	Detector	Corrected dB/m	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)
1	39433.000	48.38	peak	15.90	64.28	74.00	9.72
2	39433.000	35.84	AVG	15.90	51.74	54.00	2.26

Condition: FCC Part 15 Class B
EUT: Industrial Cellular Router
Model: UR52
Test Mode: Data communication
Note:

Polarization: Vertical
Power: AC 120V/60Hz
Distance: 1m



No.	Frequency (MHz)	Reading (dB μ V)	Detector	Corrected dB/m	Result (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
1	39919.000	50.68	peak	15.93	66.61	74.00	7.39
2	39919.000	36.44	AVG	15.93	52.37	54.00	1.63

*****END OF REPORT*****