

FCC Test Report

for

Wireless Video Scope

Brand Name : TIO Series Inspection scope

Main Model No. : TIO-W3558100

**Series Model No. : TIO-W3558200, TIO-W3558300, TIO-W3555100,
TIO-W3555200, TIO-W3555300, TIO-W3540100,
TIO-W3540200, TIO-W3540300, TIO-W3580100,
TIO-W3580200, TIO-W3580300, TIO-W35010100,
TIO-W35010200, TIO-W35010300**

FCC ID : YECTIO-W355558100

Report Number : RF- T400-1003-406

Date of Receipt : May 4, 2010

Date of Report : May 14, 2010

Prepared for

Three In One Enterprises Co., Ltd

3F, No 34, Guang-hua Road, San-Chung City, Taipei County, Taiwan. R.O.C.

Prepared by



Central Research Technology Co.

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NVLAP LAB CODE 200575-0

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Verification of Compliance

Brand Name : TIO Series Inspection scope
Equipment under Test : Wireless Video Scope
Main Model No. : TIO-W3558100
Series Model No. : TIO-W3558200, TIO-W3558300, TIO-W3555100,
TIO-W3555200, TIO-W3555300, TIO-W3540100,
TIO-W3540200, TIO-W3540300, TIO-W3580100,
TIO-W3580200, TIO-W3580300, TIO-W35010100,
TIO-W35010200, TIO-W35010300
FCC ID : YECTIO-W355558100
Manufacturer : Three In One Enterprises Co., Ltd
Applicant : Three In One Enterprises Co., Ltd
Address : 3F, No 34, Guang-hua Road, San-Chung City, Taipei County,
Taiwan. R.O.C.
Applicable Standards : 47 CFR part 15, Subpart C
Date of Testing : May 7~8, 2010
Deviation : N/A
Condition of Test Sample : Prototype

We, **Central Research Technology Co.**, hereby certify that one sample of the designated product was tested in our facility during the period mentioned above. The test records, data evaluation and Equipment Under Test (EUT) configurations shown in the present report are true and accurate representation of the measurements of the sample's RF characteristics under the conditions herein specified.

The test results show that the EUT as described in the present report is in compliance with the requirements set forth in the standards mentioned above and apply to the tested sample identified in the present report only. The test report shall not be reproduced, except in its entirety, without the written approval of Central Research Technology Co.

PREPARED BY : Cathy Chen , **DATE** : May 14, 2010
(Cathy Chen/ Technical Manager)

APPROVED BY : J. Y. Shih , **DATE** : May 14, 2010
(Tsun-Yu Shih/General Manager)

Contents

1	General Description	4
1.1	General Description of EUT.....	4
1.2	Applied standards	5
1.3	The Support Units	8
1.4	Layout of Setup	8
1.5	Test Capability	9
1.6	Measurement Uncertainty	11
2	Field Strength of Fundamental.....	12
2.1	Applied standard	12
2.2	Test Instruments	12
2.3	Measurement Procedure	13
2.4	Test configuration	14
2.5	Test Data	15
3	Radiated Emission Measurement	18
3.1	Limit for Radiated Emission Measurement.....	18
3.2	Test Instruments	19
3.3	Test Procedures	20
3.4	Test Configuration	21
3.5	Test Results	22

Attachment 1 – Photographs of the Test Configurations

Attachment 2 –External Photographs of EUT

Attachment 3 –Internal Photographs of EUT

1 General Description

1.1 General Description of EUT

Equipment under Test : Wireless Video Scope

Main Model No. : TIO-W3558100

Series Model No. : TIO-W3558200, TIO-W3558300, TIO-W3555100,
TIO-W3555200, TIO-W3555300, TIO-W3540100,
TIO-W3540200, TIO-W3540300, TIO-W3580100,
TIO-W3580200, TIO-W3580300, TIO-W35010100,
TIO-W35010200, TIO-W35010300

Power in : 3.7Vdc by battery

Test Voltage : 3.7Vdc by Battery

Manufacturer : Three In One Enterprises Co., Ltd

Channel Numbers : 1

Frequency Range : 2468MHz

Modulation : FM

Function Description :

The EUT is used to transmit both control command and data. Please refer to the user's manual for the details.

Perform the function of EUT continuously by executing the test program supplied by manufacturer.

Since the EUT is considered a portable unit, it was pre-tested on the positioned in each of 3 axis. There for only the test data of the worse case- Y axiz was used for Radiated test.

1.2 Applied standards

(1) Conduction Emission Requirement

For intentional device, according to §15.207(a) line conduction emission limit is as below table.

Frequency of Emission (MHz)	Conducted Limit (dBuV)	
	Quasi-peak	Average
0.15 – 0.5	66 to 56*	56 to 46*
0.5 - 5	56	46
5 - 30	60	50

* Decreases with the logarithm of the frequency.

(2) Field strength of emissions

According to 15.249(a), the field strength of emissions from intentional radiators operated within these frequency bands shall comply with the following:

Fundamental Frequency	Field Strength of Fundamental (millivolts/meter)	Field Strength of Harmonics (microvolts/meter)
902 - 928 MHz	50	500
2400 - 2483.5 MHz	50	500
5725 - 5875 MHz	50	500
24.0 - 24.25 GHz	250	2500

(3) Radiated Emission Requirement

According to 15.249(d), Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in Section 15.209, whichever is the lesser attenuation.

For intentional device, according to §15.209, the general requirement of field strength of radiated emissions from intentional radiator at a distance of 3 meters shall not exceed the below table.

Frequency (MHz)	Measurement Distance (m)	Field Strength (uV/m)	Field Strength (dBuV/m)
30 – 88	3	100	40.0
88 – 216	3	150	43.5
216 – 960	3	200	46.0
960 – 1610	3	500	54.0
above 1610	3	500	54.0

Note 1- The lower limit shall apply at the transition frequency.

(4) Restricted Band

Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (MHz)
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
¹ 0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
² 1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.025 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 4.20775	73 - 74.6	1645.5 - 1646.5	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1660 - 1710	10.6 - 12.7
6.26775 - 6.26825	108 - 121.94	1718.8 - 1722.2	13.25 - 13.4
6.31175 - 6.31225	123 - 138	2200 - 2300	14.47 - 14.5
8.291 - 8.294	149.9 - 150.05	2310 - 2390	15.35 - 16.2
8.362 - 8.366	156.52475 - 156.52525	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.7 - 156.9	2690 - 2900	22.01 - 23.12
8.41425 - 8.41475	162.0125 - 167.17	3260 - 3267	23.6 - 24.0
12.29 - 12.293	167.72 - 173.2	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	240 - 285	3345.8 - 3358	36.43 - 36.5
12.57675 - 12.57725	322 - 335.4	3600 - 4400	(2)
13.36 - 13.41			

¹ Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz.

² Above 38.6

1.3 The Support Units

No.	Unit	Model No./ Serial No.	Trade Name	Power Cord	Supported by lab.
N/A	*	*	*	*	*

1.4 Layout of Setup

EUT

Connecting Cables :

No.	Cable	Length	Shielded	Core	Shielded Backshell	Supported by lab.	Note
N/A	*	*	*	*	*	*	*

Justification :

For both conducted and radiated emission below 1GHz, the system was configured for typical fashion as a customer could normal use it. The peripherals other than EUT was connected in normally standing by situation. Measurement was performed under the conduction that a computer program was excited to simulate data communication of EUT, and the transmission rate was setup maximum allowed by EUT.

For line conducted emission, only measurement of TX/RX operated, for the digital circuits portion also function normally whenever TX or RX is operated. For radiated emission, measurement of radiated emission from digital circuit is performed with lowest, middle and highest channels by transmitting mode.

1.5 Test Capability

Test Facility

The test facility used for evaluating the conformance of the EUT with each standard in the present report meets what required in CISPR16-1-4, CISPR16-2-3 and ANSI C63.4:2003.

Test Room	Type of Test Room	Descriptions
TR1	10m semi-anechoic chamber (23m×14m×9m)	Complying with the NSA requirements in documents CISPR 22 and ANSI C63.4:2003 for the radiated emission measurement.
TR11	3m semi-anechoic chamber (9m × 6m × 6m)	
TR13	Test Site	For the RF conducted emission measurement.
TR5	Shielding Room (8m×5m×4m)	For the conducted emission measurement.

Test Laboratory Competence Information

Central Research Technology Co. has been accredited / filed / authorized by the agencies listed in the following table.

Certificate	Nation	Agency	Code	Mark
Accreditation Certificate	USA	NVLAP	200575-0	ISO/IEC 17025
	R.O.C. (Taiwan)	TAF	0905	ISO/IEC 17025
	R.O.C. (Taiwan)	BSMI	SL2-IN-E-0033, SL2-IS-E-0033, SL2-R1/R2-E-0033, SL2-A1-E-0033	ISO/IEC 17025
Site Filing Document	USA	FCC	474046, TW1053	Test facility list & NSA Data
	Canada	IC	4699A-1, -3	Test facility list & NSA Data
	Japan	VCCI	R-1527,C-1609,T-131,T-1441, G-10	Test facility list & NSA Data
Authorization Certificate	Germany	TUV	10021687-2010	ISO/IEC 17025
	Norway	Nemko	ELA212	ISO/IEC 17025

The copy of each certificate can be downloaded from our web site: www.crc-lab.com

1.6 Measurement Uncertainty

The assessed measurement uncertainty with a suitable coverage factor K to ensure 95% confidence level for the normal distribution are shown as below, the values are less than $U_{cisp\text{r}}$ in table 1 of CISPR 16-4-2.

Test Item	Measurement Uncertainty	
Peak Output Power	1.1dB	
Radiated Emission: (30MHz~200MHz)	Horizontal 3.5dB ; Vertical 4.0 dB	
Radiated Emission: (200MHz~1GHz)	Horizontal 4.2dB ; Vertical 3.9dB	
Radiated Emission: (1GHz~18GHz)	Horizontal 2.5dB ; Vertical 2.5dB	
Radiated Emission: (18GHz~26.5GHz)	Horizontal 4.0dB ; Vertical 4.0dB	
Line Conducted Emission	ESH2-Z5	3.1dB
	ENV 4200	3.8dB

2 Field Strength of Fundamental

Result: Pass

2.1 Applied standard

Fundamental Frequency	Peak	Average
<input type="checkbox"/> 902 – 928 MHz	500mV/m (114dBuV/m)	50mV/m (94dBuV/m)
<input checked="" type="checkbox"/> 2400 – 2483.5 MHz	500 mV/m (114dBuV/m)	50 mV/m (94dBuV/m)
<input type="checkbox"/> 5725 – 5875 MHz	500 mV/m (114dBuV/m)	50 mV/m (94dBuV/m)
<input type="checkbox"/> 24.0 – 24.25 GHz	2500 mV/m (128dBuV/m)	250 mV/m (108dBuV/m)

2.2 Test Instruments

Test Site and Equipment	Manufacturer	Model No./ Serial No.	Last Calibration Date	Calibration Due Date
Spectrum Analyzer	Agilent	E4407B/ MY45106795	2010/5/4	2011/5/3
Antenna	EMCO	3117/57416	2010/3/5	2011/3/4
Semi - anechoic Chamber	ETS. LINDGREN	TR11/ 906-A	2009/6/30	2010/6/29

Note:

1. The calibrations are traceable to NML/ROC.
2. NCR:No Calibration Required.

Instrument Setting

RBW	VBW	Detector	Trace	Comment
1MHz	1MHz	Peak	Maxhold	Peak
1MHz	10Hz	Peak	Maxhold	Average

Climatic Condition

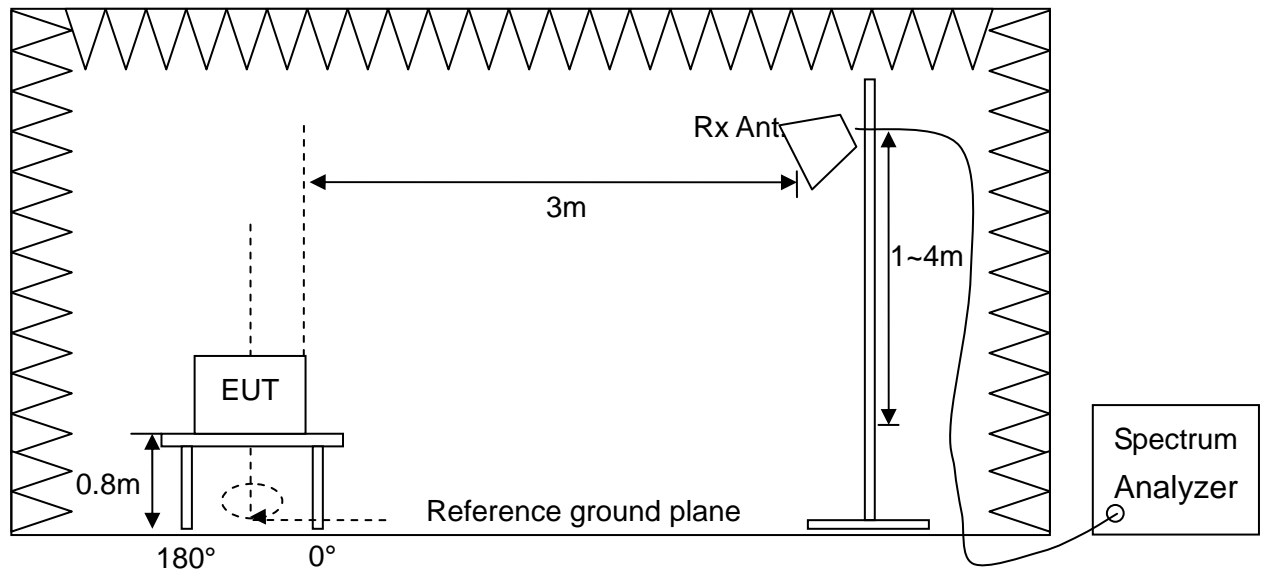
Ambient Temperature : 24°C

Relative Humidity : 54%

2.3 Measurement Procedure

- a. The EUT was set up per the test configuration figured in the next section of this chapter to simulate the typical usage per the user's manual.
- b. A software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel frequencies individually.
- c. If the EUT is tabletop equipment, it was placed on a wooden table with a height of 0.8 meters above the reference ground plane in the semi-anechoic chamber. If the EUT is floor-standing equipment, it was placed on a non-conducted support with a height of 12 millimeters above the reference ground plane in the semi-anechoic chamber.
- d. The EUT was set 3m away from the interference receiving antenna.
- e. Rapidly sweep the signal in the test frequency range by using the spectrum through the Maximum-peak detector.
- f. Rotate the EUT from 0° to 360° and position the receiving antenna at heights from 1 to 4 meters above the reference ground plane continuously to determine higher emission level and record it.
- g. Then measure frequency found from step f. by using the spectrum with rotating the EUT and positioning the receiving antenna height to determine the maximum level.
- h. Set the spectrum detector to be Peak or Average to find out the maximum level occurred.
- i. Record frequency, azimuth angle of the turntable, height, and polarization of the receiving antenna and compare the maximum level with the required limit.
- j. Change the receiving antenna to another polarization to measure radiated emission by following step e. to i. again.

2.4 Test configuration



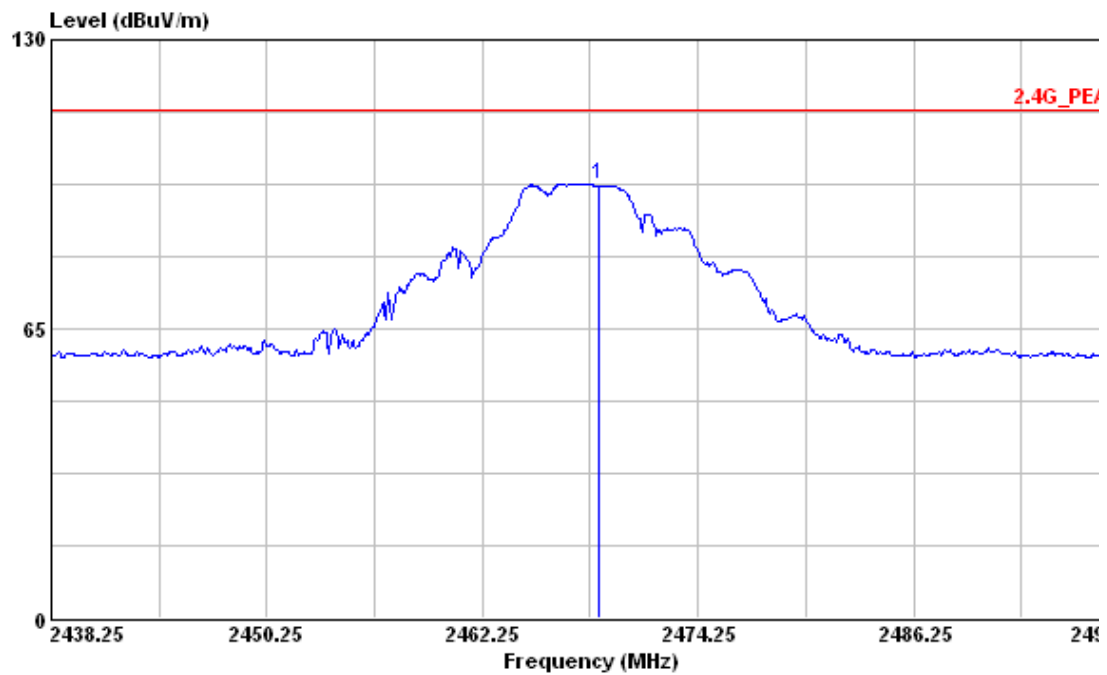
2.5 Test Data**Test Mode : Continuous Transmitting****Tester : Bill**

Frequency (MHz)	Polarization	Reading Data (dBuV)		Correction Factor (dB/m)	Output Field Strength (dBμV/m)		Limit (dBμV/m)		Margin (dB)	
		PK	AV		PK	AV	PK	AV	PK	AV
2468.55	V	93.38	85.12	4.19	97.57	89.31	114	94	16.43	4.69
	H	95.21	85.9	4.19	99.40	90.09	114	94	14.6	3.91

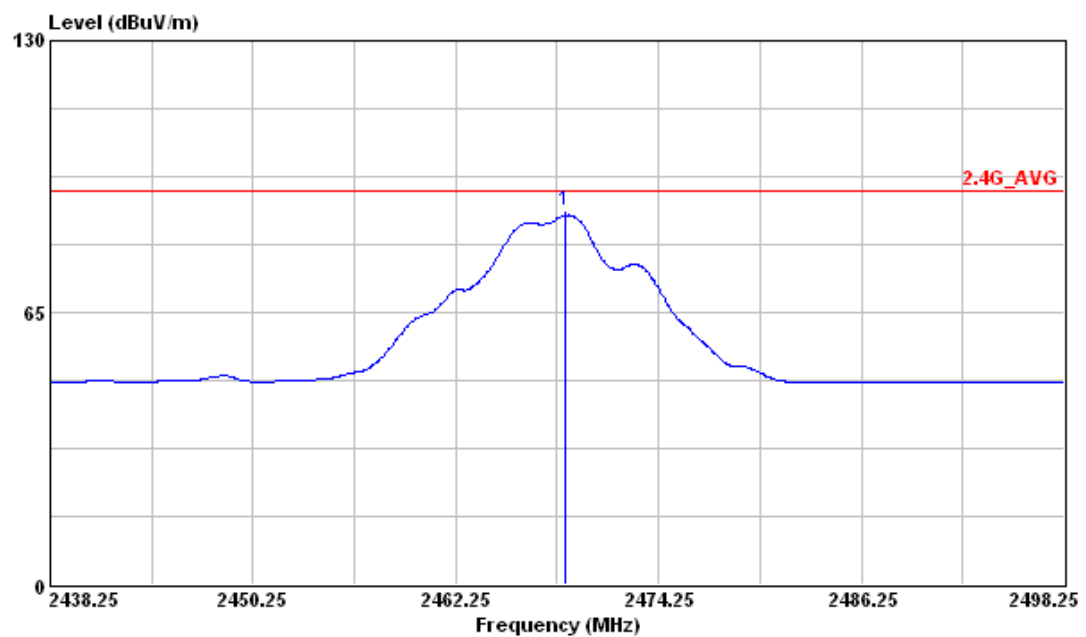
Note :

1. Correction Factor (dB/m) = Cable Loss + Antenna Factor – Gain of Preamplifier
2. Output Field Strength (dBuV/m) = Reading Data + Correction Factor
3. Margin (dB) = Limit – Output Field Strength

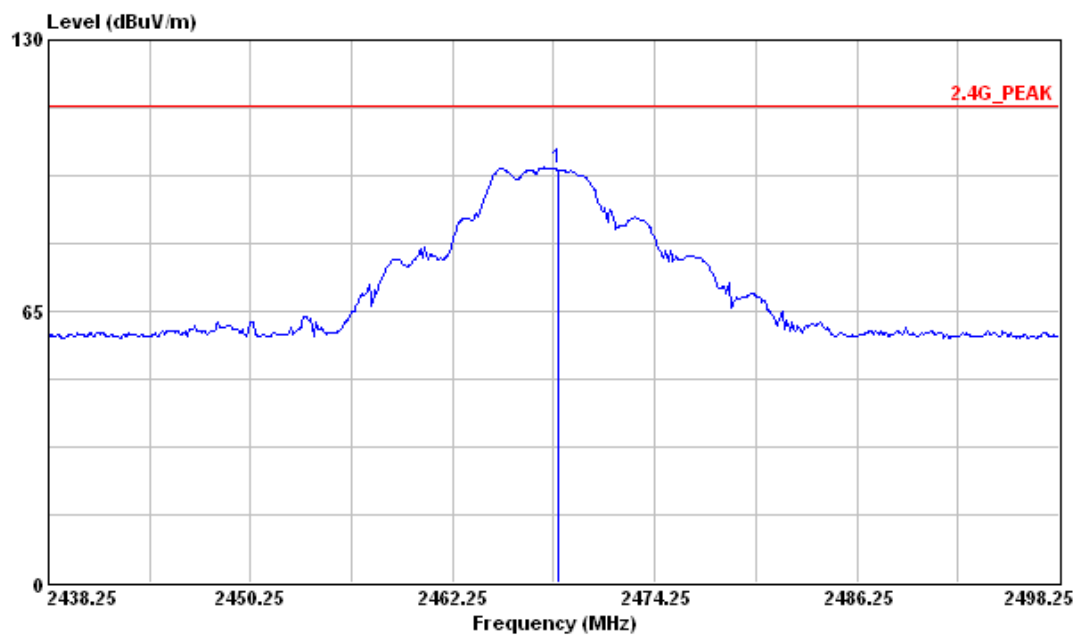
Vertical Polarization - Peak



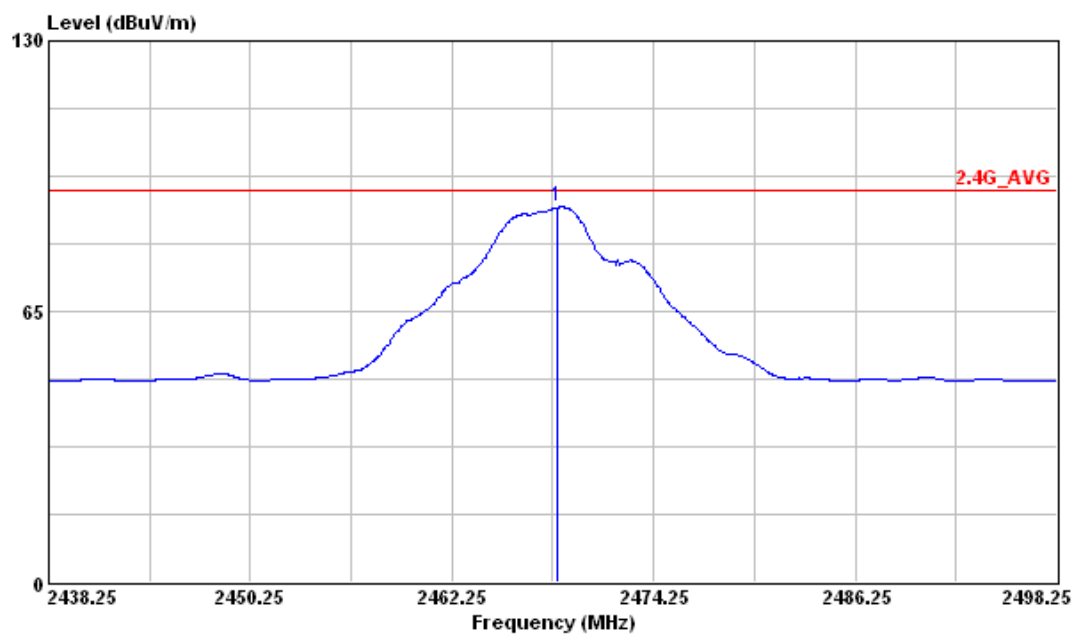
Vertical Polarization - Average



Horizontal Polarization - Peak



Horizontal Polarization - Average



3 Radiated Emission Measurement

Result: PASS

3.1 Limit for Radiated Emission Measurement

Limit for Harmonics Radiation Emission Measurement

Fundamental Frequency	Field Strength of Harmonics
<input type="checkbox"/> 902 – 928 MHz	500 uV/m (54dBuV/m)
<input checked="" type="checkbox"/> 2400 – 2483.5 MHz	500 uV/m (54dBuV/m)
<input type="checkbox"/> 5725 – 5875 MHz	500 uV/m (54dBuV/m)
<input type="checkbox"/> 24.0 – 24.25 GHz	2500 uV/m(68dBuV/m)

Limit for Other Emissions except Harmonics

Frequency (MHz)	Quasi-peak (dBμV/m)	
30 to 88	40	
88 to 216	43.5	
216 to 960	46	
960 to 1000	54	
Frequency (MHz)	Peak (dBμV/m)	Average (dBμV/m)
Above 1000	74	54
Note 1- The lower limit shall apply at the transition frequency.		
Note 2- Additional provisions may be required for cases where interference occurs.		

3.2 Test Instruments

Test Site and Equipment	Manufacturer	Model No./ Serial No.	Last Calibration Date	Calibration Due Date
Spectrum Analyzer	Agilent	E4407B/ MY45106795	2010/5/4	2011/5/3
EMI Test Receiver	R&S	ESCI/100019	2009/11/30	2010/11/29
Broadband Antenna	EMCO	3142C/52088	2009/7/22	2010/7/21
Antenna	EMCO	3117/57416	2010/3/5	2011/3/4
PRE-AMPLIFIER	MITEQ	AFS6-02001800-35 -10P-6/949196	2009/9/11	2010/09/10
Pre-Amplifier	Mini Circuit	ZKL-2/004	2010/8/8	2010/8/7
Semi - anechoic Chamber	ETS. LINDGREN	TR11/ 906-A	2009/6/30	2010/6/29

Note:

1. The calibrations are traceable to NML/ROC.
2. NCR:No Calibration Required.

Instrument Setting

RBW	VBW	Detector	Trace	Comment
120kHz	N/A	Quasi-Peak	Maxhold	Below 1GHz
1MHz	1MHz	Peak	Maxhold	Above 1GHz Peak
1MHz	10Hz	Peak	Maxhold	Above 1GHz Average

Climatic Condition

Ambient Temperature : 23°C;

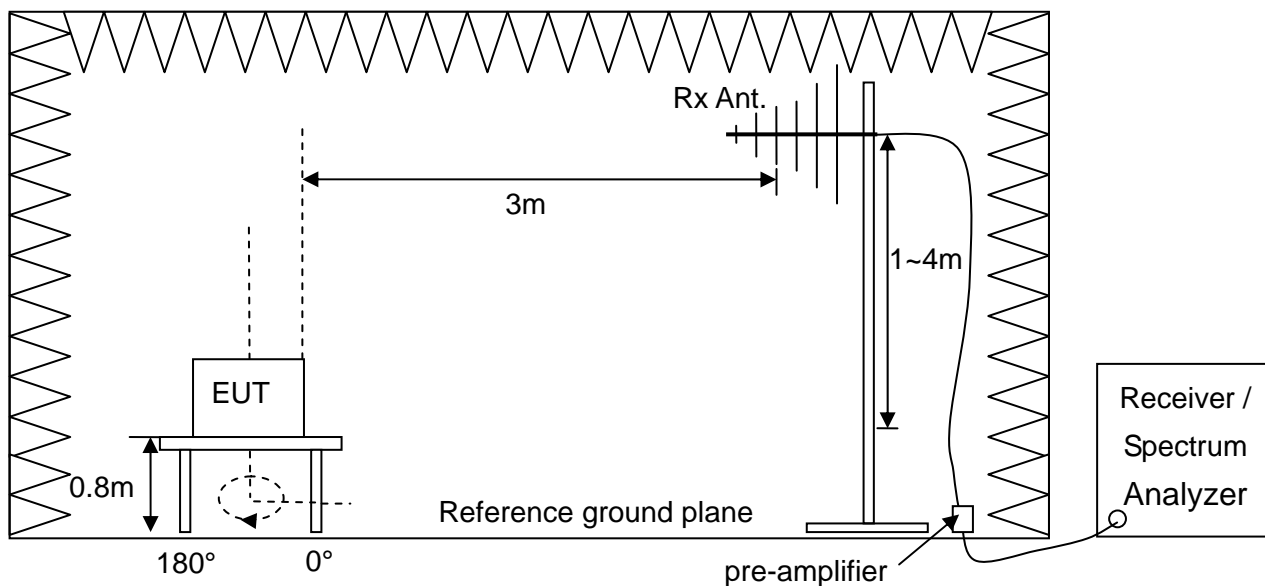
Relative Humidity : 52%

3.3 Test Procedures

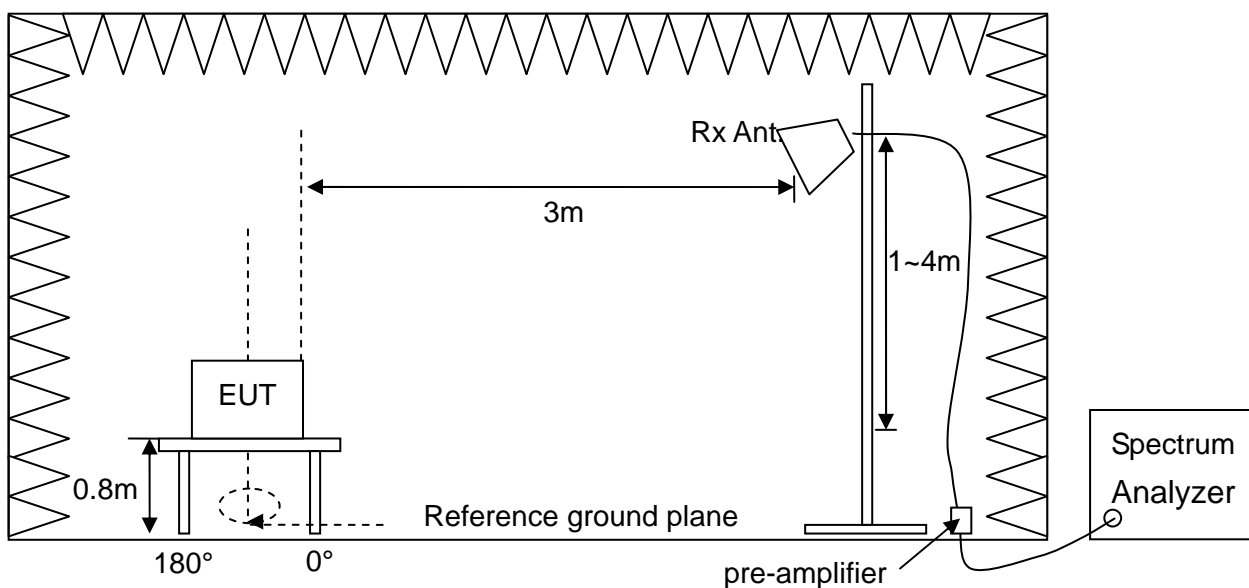
- a. The EUT was set up per the test configuration figured in the next section of this chapter to simulate the typical usage per the user's manual.
- b. A software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel frequencies individually.
- c. If the EUT is tabletop equipment, it was placed on a wooden table with a height of 0.8 meters above the reference ground plane in the semi-anechoic chamber. If the EUT is floor-standing equipment, it was placed on a non-conducted support with a height of 12 millimeters above the reference ground plane in the semi-anechoic chamber.
- d. The EUT was set 3m away from the interference receiving antenna.
- e. Rapidly sweep the signal in the test frequency range by using the spectrum through the Maximum-peak detector.
- f. Rotate the EUT from 0° to 360° and position the receiving antenna at heights from 1 to 4 meters above the reference ground plane continuously to determine at least six frequencies associated with higher emission levels and record them.
- g. Then measure each frequency found from step f. by using the spectrum with rotating the EUT and positioning the receiving antenna height to determine the maximum level.
- h. For measurement of frequency below 1000MHz, set the receiver detector to be Quasi-Peak per CISPR 16-1 to find out the maximum level occurred.
- i. For measurement of frequency above 1000MHz, set the spectrum detector to be Peak or Average to find out the maximum level occurred, if any.
- j. Record frequency, azimuth angle of the turntable, height, and polarization of the receiving antenna and compare the maximum level with the required limit.
- k. Change the receiving antenna to another polarization to measure radiated emission by following step e. to j. again.
- l. If the peak emission level below 1000MHz measured from step f. is 4dB lower than the limit specified, then the emission values presented will be the peak value only. Otherwise, accurate Q.P. value will be measured and presented.
- m. If the peak emission level above 1000MHz measured from step f. is 20dB lower than the limit specified, then the emission values presented will be the peak value only. Otherwise, accurate A.V. value will be measured and presented.

3.4 Test Configuration

Radiated Emission Measurement below 1000MHz



Radiated Emission Measurement above 1000MHz



3.5 Test Results

Band Edge

Test Mode : Continuous Transmitting

Test Distance : 3m

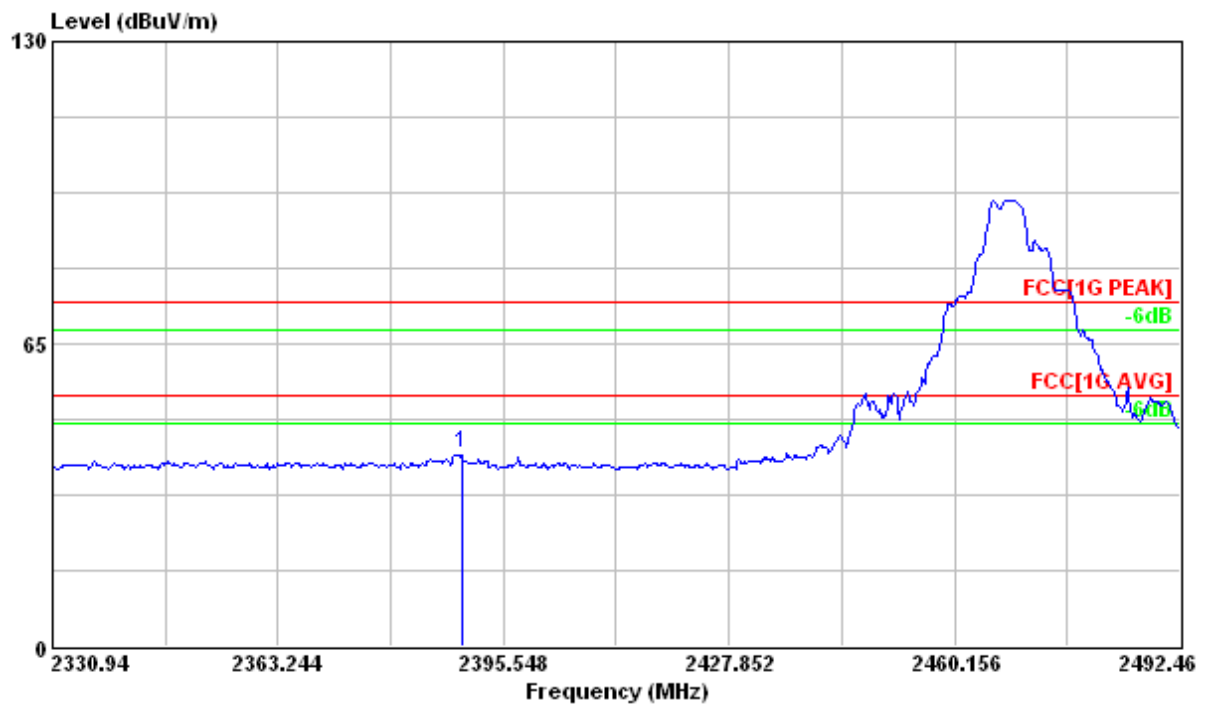
Tester : Bill

Test Range	Polarization	Frequency (MHz)	Reading Data (dBuV)		Correction Factor (dB/m)	Emission (dBuV/m)		Limit (dBuV/m)		Margin (dB)	
			PK.	AV.		PK.	AV.	PK.	AV.	PK.	AV.
Lowest	V	2390.00	70.92	56.86	-29.48	41.44	27.38	74	54	32.56	26.62
	H	2390.00	69.07	57.01	-29.48	39.59	27.53	74	54	34.41	26.47
Highest	V	2483.50	80.27	64.37	-29.53	50.74	34.84	74	54	23.26	19.16
	H	2483.50	79.05	63.32	-29.53	49.52	33.79	74	54	24.48	20.21

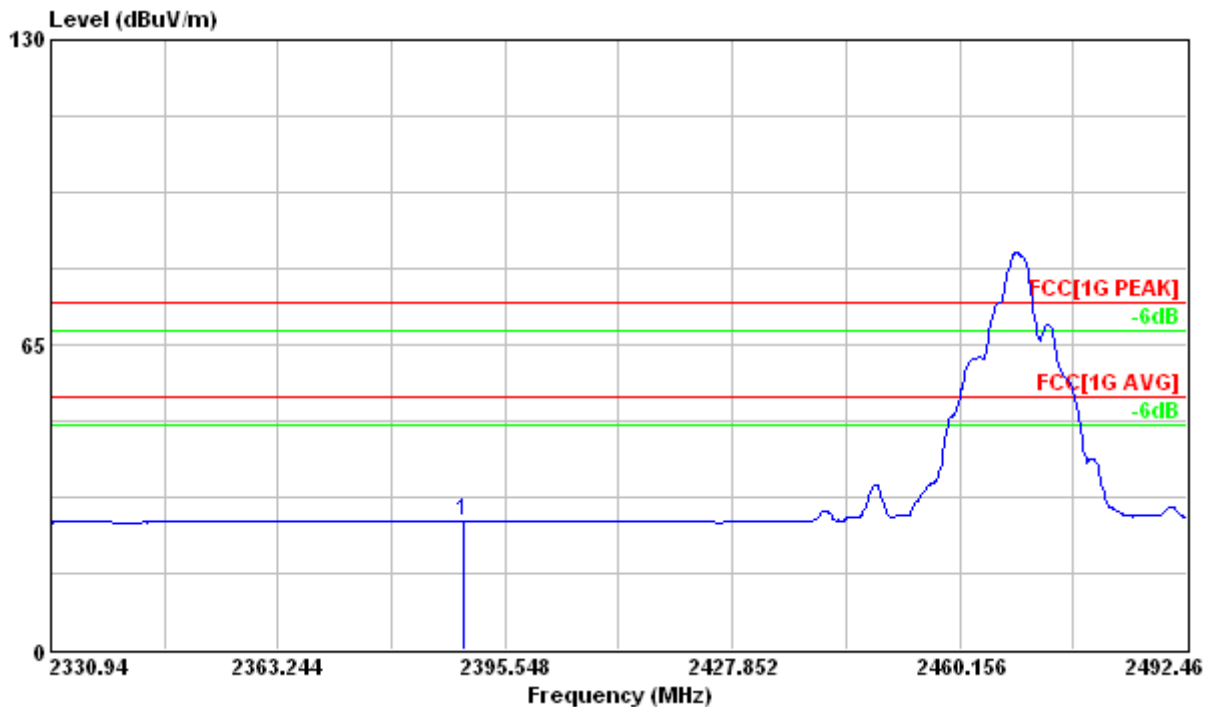
Note:

1. Correction Factor (dB/m) = Cable Loss + Antenna Factor – Gain of Preamplifier
2. Emission Level (dBuV/m) = Reading Data + Correction Factor
3. Margin (dB) = Limit – Emission Level

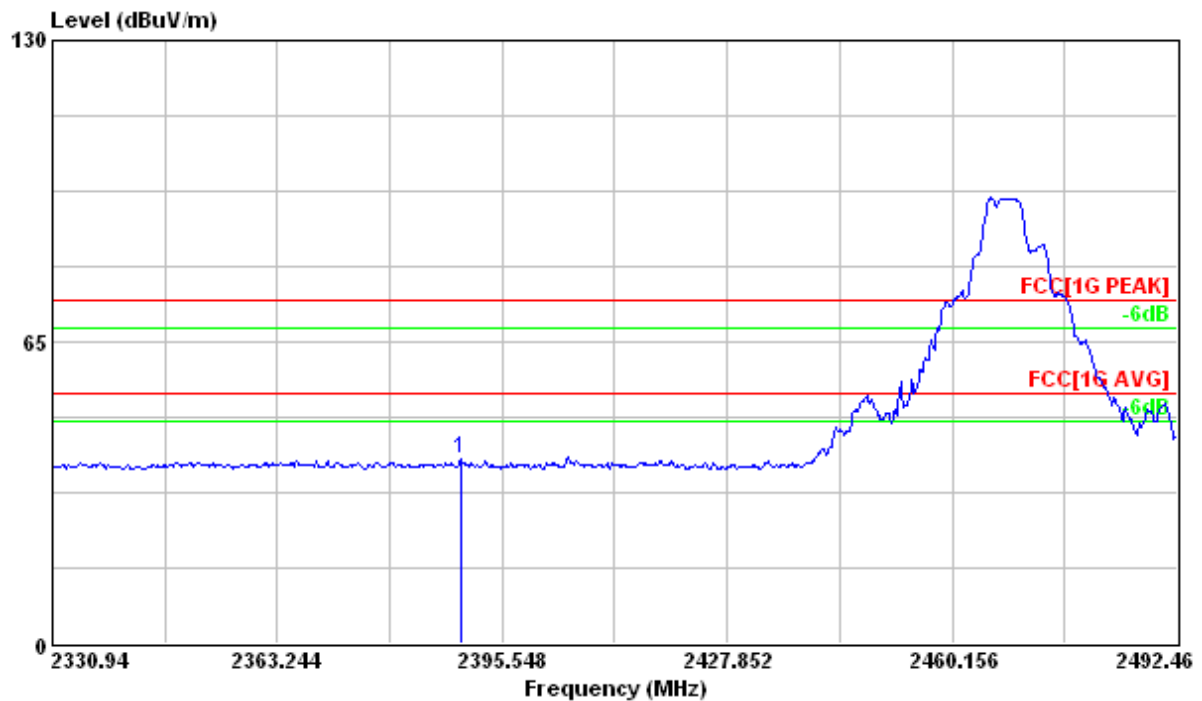
Lowest Channel, Vertical - Peak



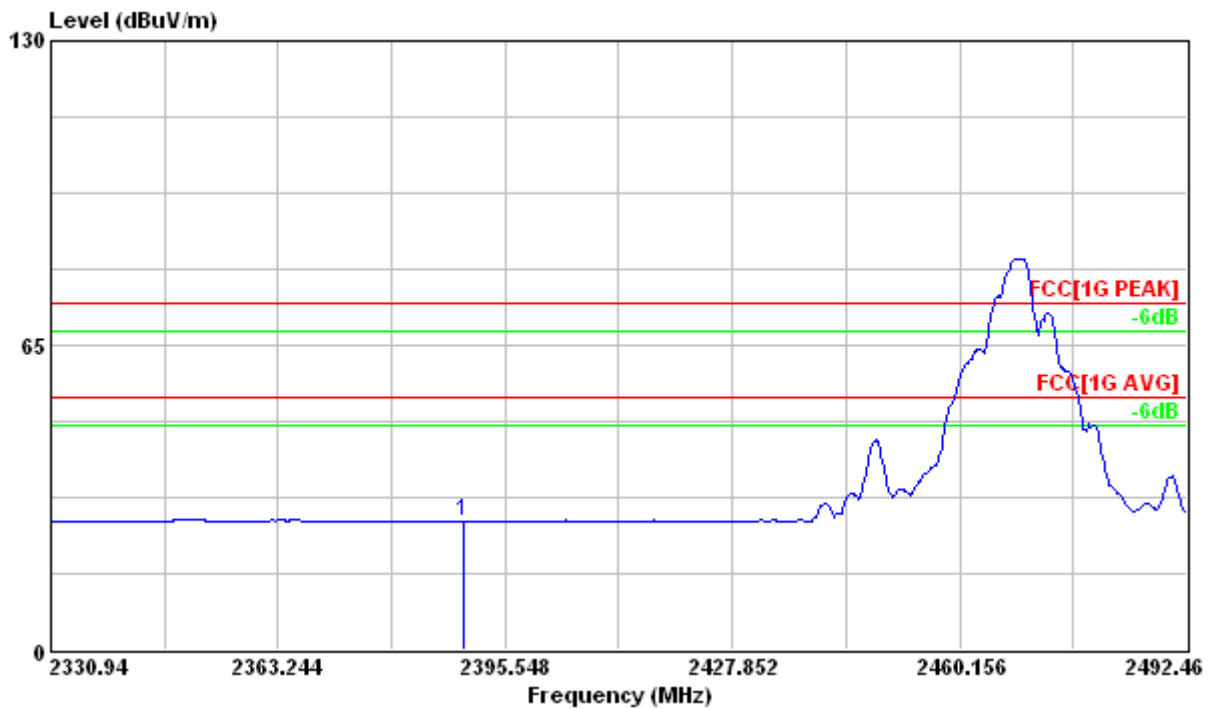
Lowest Channel, Vertical - Average



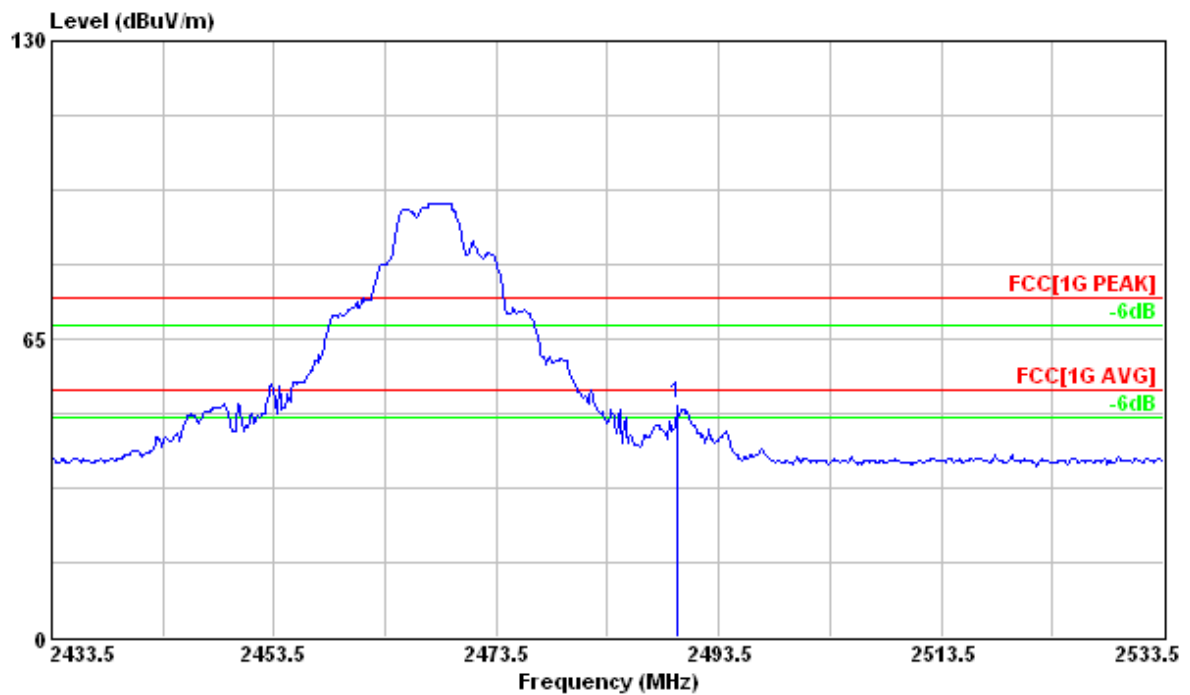
Lowest Channel, Horizontal - Peak



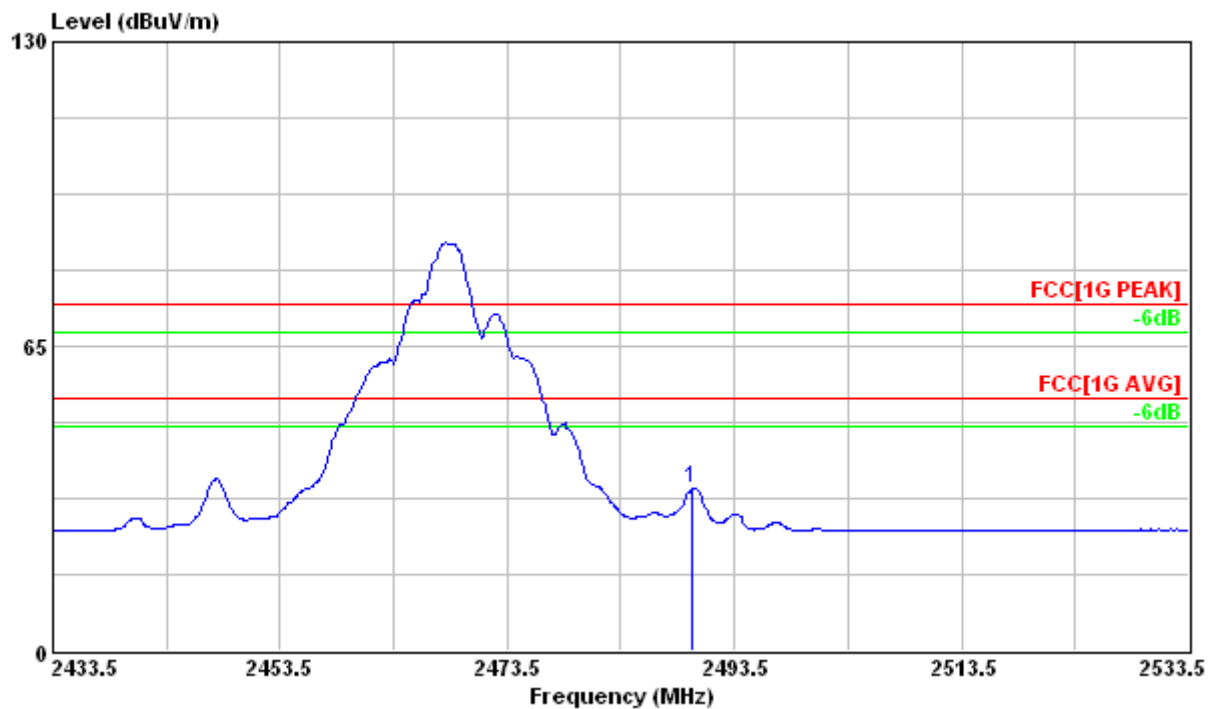
Lowest Channel, Horizontal - Average



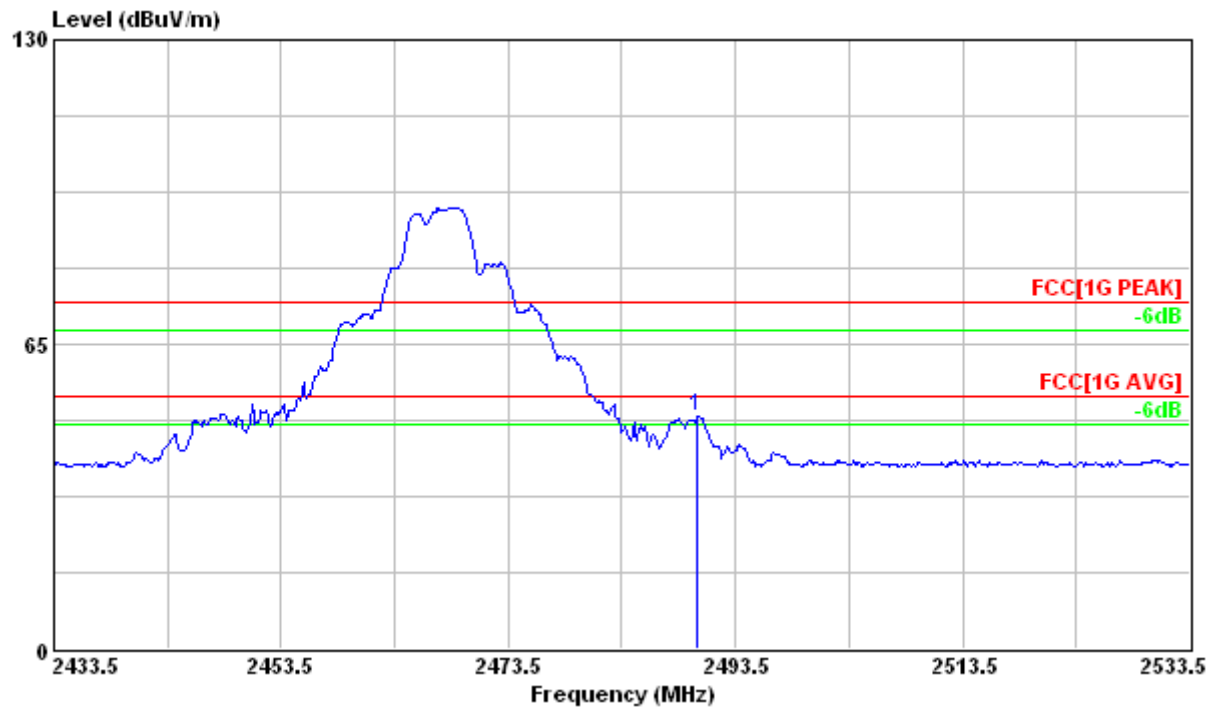
Highest Channel, Vertical - Peak



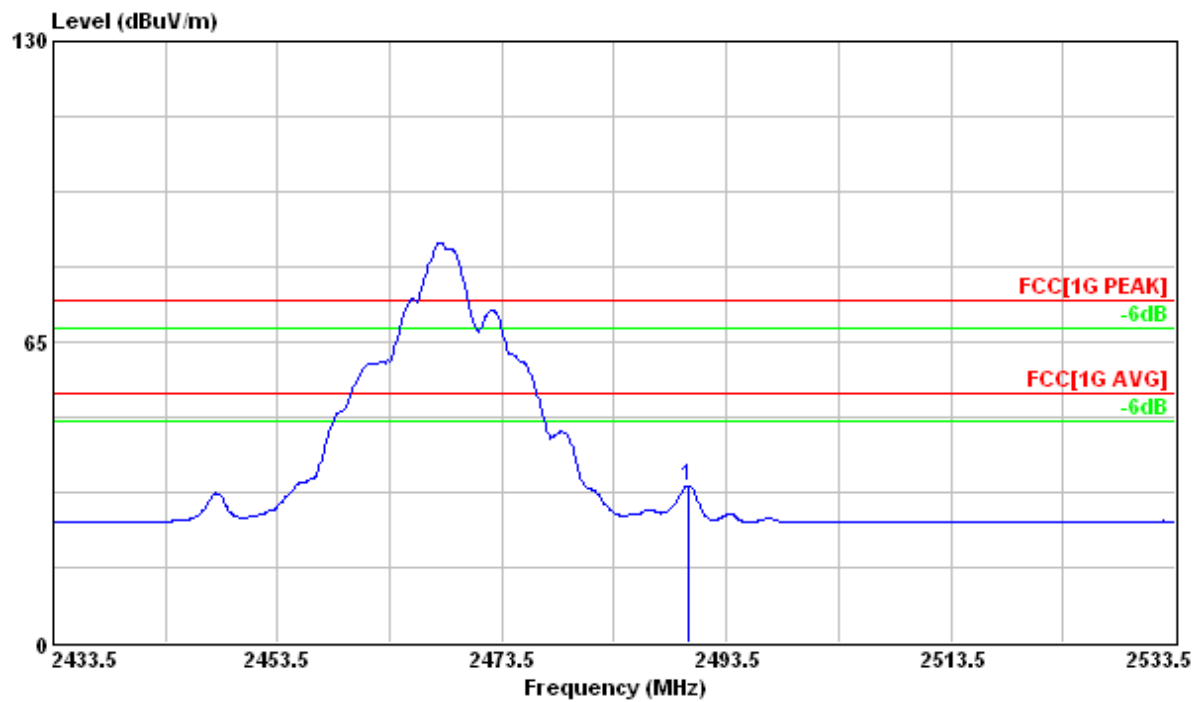
Highest Channel, Vertical - Average



Highest Channel, Horizontal - Peak



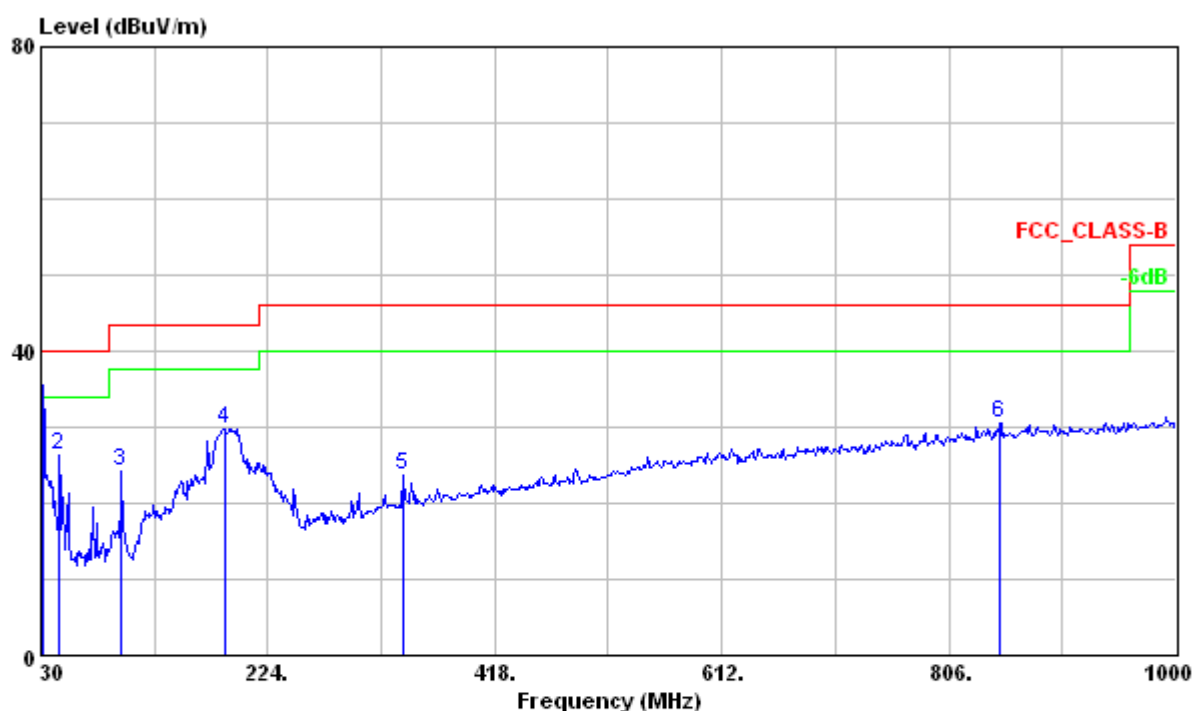
Highest Channel, Horizontal - Average



Transmitter Radiated Emission Measurement

Below 1000MHz

Test Mode : Continuous Transmitting
Test Distance : 3m **Tester** : Bill
Polarization : Vertical **Frequency Range** : 30MHz~1000MHz

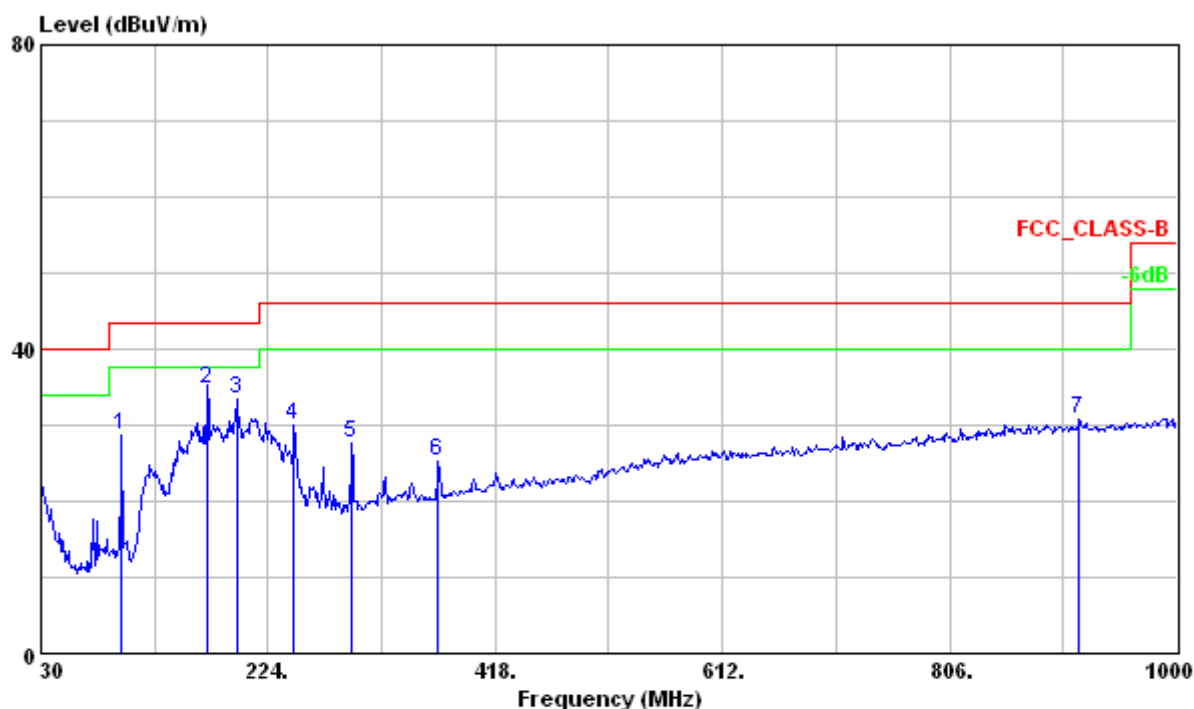


	Freq	Level	Factor	Read Level	Limit Line	Over Limit	Ant Pos	Table Pos	Pol/Phase	Remark
	MHz	dBuV/m	dB/m	dBuV	dBuV/m	dB	cm	deg		
1 @	31.728	32.59	-9.86	42.45	40.00	-7.41	100	65	VERTICAL	QP
2	45.390	26.28	-16.69	42.97	40.00	-13.72	---	---	VERTICAL	Peak
3	98.040	24.15	-18.88	43.03	43.50	-19.35	---	---	VERTICAL	Peak
4	187.410	29.84	-16.21	46.05	43.50	-13.66	---	---	VERTICAL	Peak
5	339.900	23.81	-10.64	34.45	46.00	-22.19	---	---	VERTICAL	Peak
6	850.200	30.53	-1.16	31.69	46.00	-15.47	---	---	VERTICAL	Peak

Note:

1. Emission Level = reading value + correction factor.
2. Correction factor = cable loss + antenna factor – gain of pre-amplifier.
3. Q.P is abbreviation of quasi-peak.

Test Mode : Continuous Transmitting
Test Distance : 3m **Tester** : Bill
Polarization : Horizontal **Frequency Range** : 30MHz~1000MHz



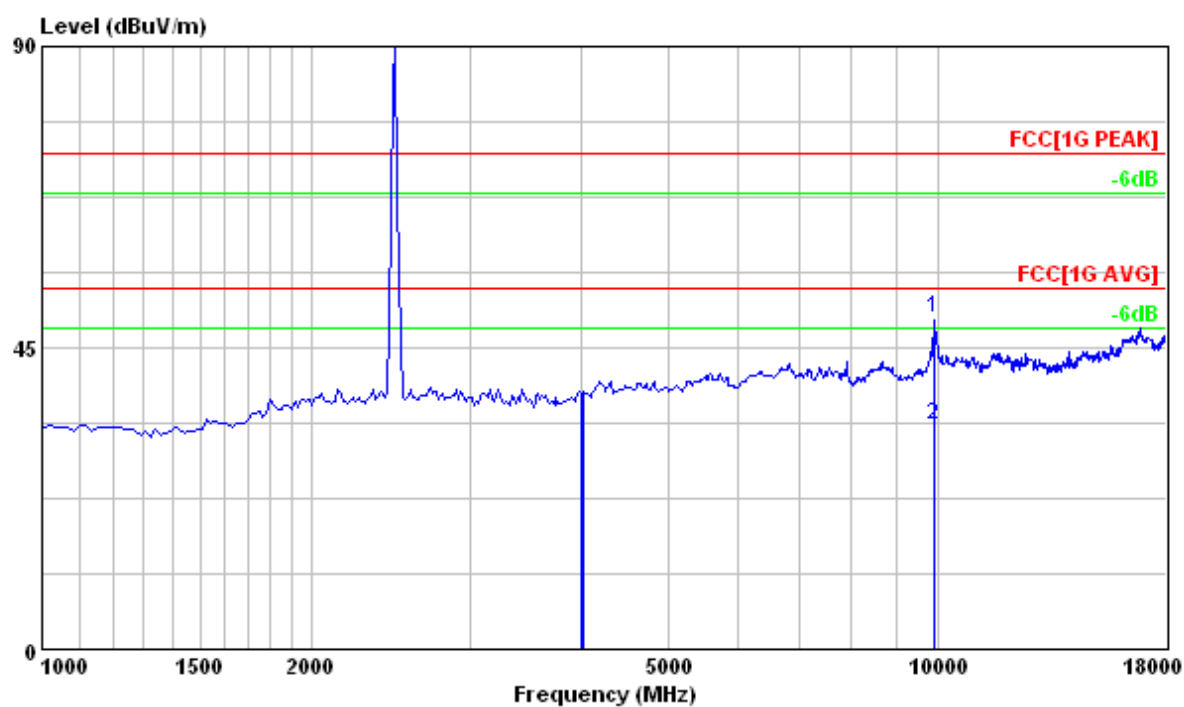
	Freq	Level	Factor	Read Level	Limit Line	Over Limit	Ant Pos	Table Pos	Pol/Phase	Remark
	MHz	dBuV/m	dB/m	dBuV	dBuV/m	dB	cm	deg		
1	98.040	28.64	-18.88	47.52	43.50	-14.86	---	---	HORIZONTAL	Peak
2	172.031	34.63	-16.73	51.36	43.50	-8.87	198	359	HORIZONTAL	QP
3	196.860	33.40	-15.86	49.26	43.50	-10.10	---	---	HORIZONTAL	Peak
4	246.270	29.99	-14.02	44.01	46.00	-16.01	---	---	HORIZONTAL	Peak
5	295.680	27.58	-12.52	40.10	46.00	-18.42	---	---	HORIZONTAL	Peak
6	369.300	25.26	-9.80	35.06	46.00	-20.74	---	---	HORIZONTAL	Peak
7	916.700	30.80	-0.44	31.24	46.00	-15.20	---	---	HORIZONTAL	Peak

Note:

1. Emission Level = reading value + correction factor.
2. Correction factor = cable loss + antenna factor – gain of pre-amplifier.
3. Q.P is abbreviation of quasi-peak.

Above 1000MHz

Test Mode : Continuous transmitting
 Test Distance : 3m Tester : Bill
 Polarization : Vertical Frequency Range : 1GHz ~ 25GHz



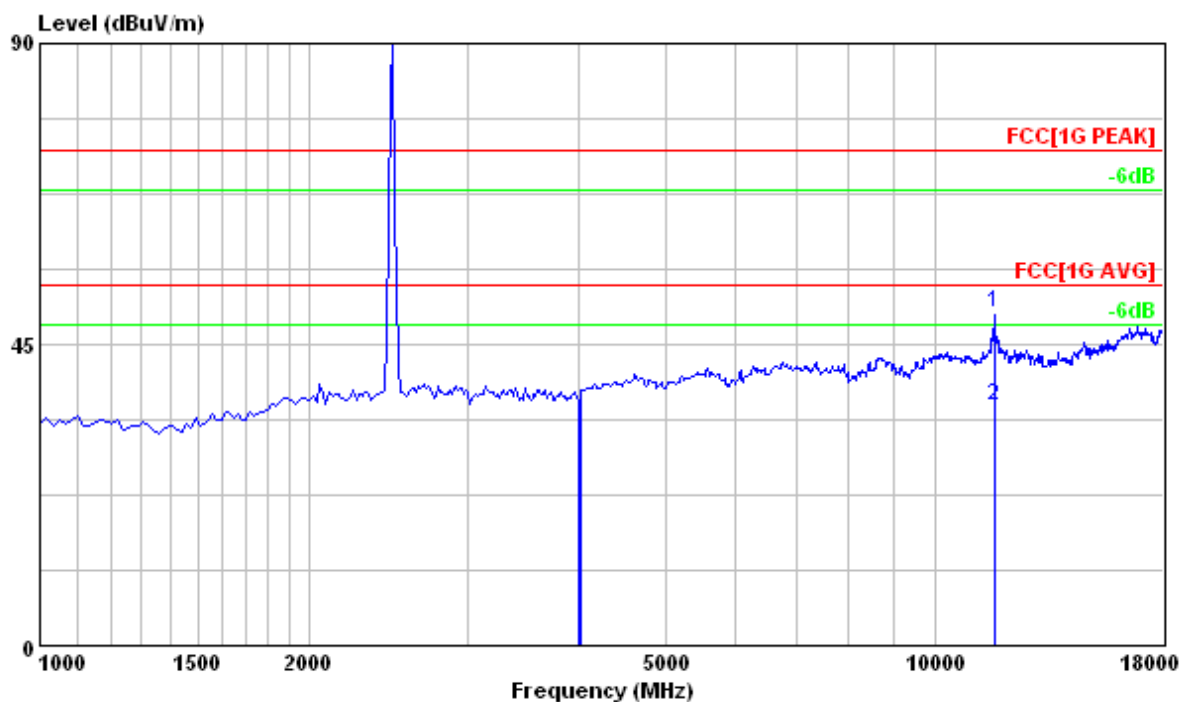
	Freq	Level	Factor	Read Level	Limit Line	Over Limit	Ant Pos	Table Pos	Pol/Phase	Remark
	MHz	dBuV/m	dB/m	dBuV	dBuV/m	dB	cm	deg		
1	9906.200	49.54	-19.45	68.99	74.00	-24.46	131	73	VERTICAL	Peak
2	9906.200	33.36	-19.45	52.81	54.00	-20.64	131	73	VERTICAL	Average

Note:

1. Emission Level = reading value + correction factor.
2. Correction factor = cable loss + antenna factor – gain of pre-amplifier.

No signal can be detected from 18GHz to 25GHz, so the graphs are omitted above 18GHz.

Test Mode : Continuous transmitting
Test Distance : 3m **Tester** : Bill
Polarization : Horizontal **Frequency Range** : 1GHz ~ 18GHz



	Freq	Level	Factor	Read Level	Limit Line	Over Limit	Ant Pos	Table Pos	Pol/Phase	Remark
	MHz	dBuV/m	dB/m	dBuV	dBuV/m	dB	cm	deg		
1	11644.100	49.61	-17.37	66.98	74.00	-24.39	111	269	HORIZONTAL	Peak
2	11644.100	35.83	-17.37	53.20	54.00	-18.17	111	269	HORIZONTAL	Average

Note:

1. Emission Level = reading value + correction factor.
2. Correction factor = cable loss + antenna factor – gain of pre-amplifier.

No signal can be detected from 18GHz to 25GHz, so the graphs are omitted above 18GHz.