

FCC PART 15C TEST REPORT FOR CERTIFICATION

On Behalf of

Acrox Technologies Co.,Ltd

Nano Receiver

Model Number: MRN

FCC ID: PRDRX01

Prepared for : Arox Technologies Co.,Ltd
437,8f,Rui Guang Road,Nei Hu District,Taipei,Taiwan

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Report Number : ESTE-R1103001
Date of Test : Mar.11~17, 2011
Date of Report : Mar.17, 2011

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TEST REPORT CERTIFICATION


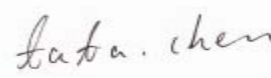

Applicant : Acrox Technologies Co.,Ltd
Manufacturer : Acrox Technologies Co.,Ltd
EUT Description : Nano Receiver
FCC ID : PRDRX01
(A) MODEL NO. : MRN
(B) SERIAL NO. : N/A
(C) POWER SUPPLY : DC 5V From PC
(D) TEST VOLTAGE : DC 5V From PC

Tested for comply with:
FCC Rules and Regulations Part 15 Subpart C:2008

Test procedure used:
ANSI C63.10:2009

The device described above is tested by EST Technology Co., Ltd. to confirm comply with all the FCC Part 15 Subpart C requirements.

The test results are contained in this test report and EST Technology Co., Ltd. is assumed full responsibility for the accuracy and completeness of these tests. Also, this report shows that the Equipment under test (EUT) is to be technically compliant with the FCC requirements.

Prepared by:	Tested by:	Approved by:
 _____	 _____	 _____
Coco / Assistant	Tata Chen / Engineer	Iceman Hu / Manager

This test report is based on a single evaluation of one sample of above mentioned products. It is not permitted to be duplicated in extracts without written approval of EST Technology Co., Ltd.

1. SUMMARY OF STANDARDS AND RESULTS

1.1. Description of Standards and Results

The EUT have been tested according to the applicable standards as referenced below.

EMISSION		
Description of Test Item	Standard	Results
Power Line Conducted Emission Test	FCC Part 15C: 15.207 ANSI C63.10-2009	PASS
Radiated Emission Test	FCC Part 15C: 15.209 FCC Part 15C: 15.249 ANSI C63.10-2009	PASS
Band Edge Compliance Test	FCC Part 15: 15.249 ANSI C63.10-2009	PASS
20dB Bandwidth Test	FCC Part 15: 15.215 ANSI C63.10-2009	PASS

2. GENERAL INFORMATION

2.1. Description of Device (EUT)

Product Name : Nano Receiver

Model Number : MRN

FCC ID : PRDRX01

Operation frequency : 2403MHz~2480MHz

Antenna : Integrated PCB antenna, -5.83dBi gain

Modulation : GFSK

Power Supply : DC 5V form PC

Applicant : Acrox Technologies Co.,Ltd
437,8f,Rui Guang Road,Nei Hu District,Taipei,Taiwan

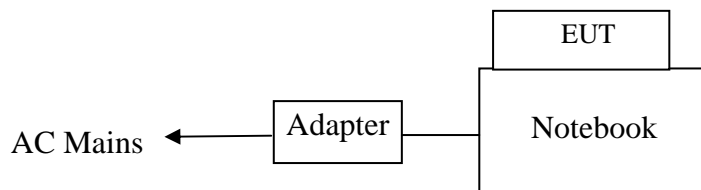
Manufacturer : Acrox Technologies Co.,Ltd
Hsinmin Industrial,Changan Town, Dongguan City

Sample Type : Prototype production

2.2. Tested Supporting System Details

No.	Description	No.	Manufacturer	Model	Serial Number	Approved type
1.	Notebook	N/A	DELL	PP09S	N/A	<input checked="" type="checkbox"/> FCC DoC <input checked="" type="checkbox"/> BSMI ID: R41108
		Power Cord: Unshielded, Detachable, 1.8m Power Adapter: Manufacturer: DELL, M/N: LA65NS1-00 Cable: Unshielded, Detachable, 4.0m(Bond one ferrite core)				

2.3. EUT Configuration and operation conditions for test.



Notebook run test software “GeniusUSBTest.exe” to control EUT work continues Tx mode and frequency as below:

Channel	Frequency
Low	2403MHz
Middle	2440MHz
High	2480MHz

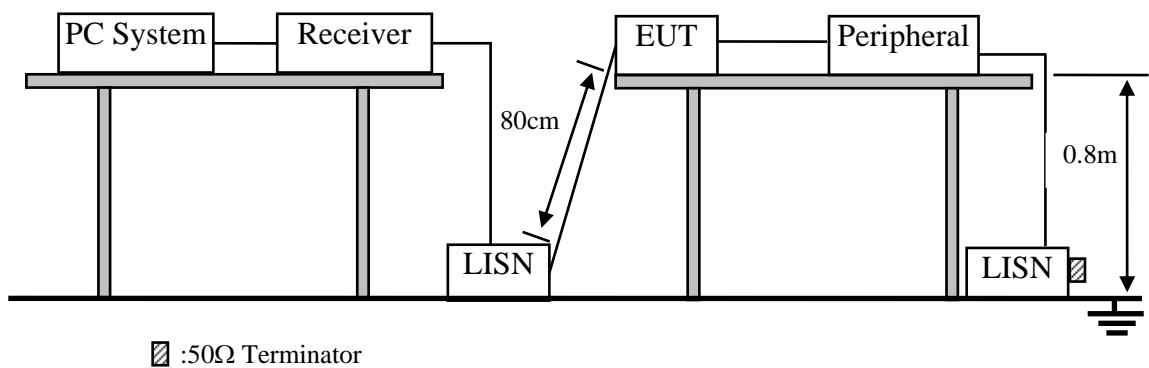
Note: A typical modulation was applied when performance test.

3. POWER LINE CONDUCTED EMISSION TEST

3.1. Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Test Receiver	Rohde & Schwarz	ESHS10	838693/001	Nov.05, 10	1 Year
2.	L.I.S.N.#1	Rohde & Schwarz	ESH2-Z5	834066/011	Nov.05, 10	1 Year
3.	L.I.S.N.#3	Kyoritsu	KNW-242C	8-1920-1	May.08, 10	1 Year
4.	Terminator	Hubersuhner	50Ω	No. 1	May.08, 10	1 Year
5.	Terminator	Hubersuhner	50Ω	No. 2	May.08, 10	1 Year
6.	RF Cable	Fujikura	3D-2W	LISN Cable 1#	May.08, 10	1Year
7.	Coaxial Switch	Anritsu	MP59B	M55367	May.08, 10	1 Year
8.	Passive Probe	Rohde & Schwarz	ESH2-Z3	299.7810.52	May.08, 10	1 Year
9.	Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100341	May.08, 10	1 Year

3.2. Block Diagram of Test Setup



3.3. Power Line Conducted Emission Test Limits

Frequency range MHz	Limits dB(μV)	
	Quasi-peak Level	Average Level
0,15 to 0,5	79	66
0,5 to 30	73	60

- Notes: 1. * Decreasing linearly with logarithm of frequency.
 2. The lower limit shall apply at the transition frequencies.

3.4. Operating Condition of EUT

- 3.4.1. Setup the EUT and simulator as shown as Section 2.3
- 3.4.2. Turn on the power of all equipment.
- 3.4.3. Let the EUT work in test mode (Tx Mode) and measure it.

3.5. Test Procedure

The EUT was placed on a non-metallic table, 80cm above the ground plane. The EUT Powered from PC which mains connected to the power mains through a line impedance stabilization network (L.I.S.N. 1#). The other peripheral devices power cord connected to the power mains through a line impedance stabilization network (L.I.S.N.#3). this provided a 50-ohm coupling impedance for the EUT (Please refer to the block diagram of the test setup and photographs). Both sides of power line were checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipments and all of the interface cables were changed according to ANSI C63.4-2009 on conducted Emission test.

The bandwidth of test receiver (R&S TEST RECEIVER ESHS10) is set at 10kHz.

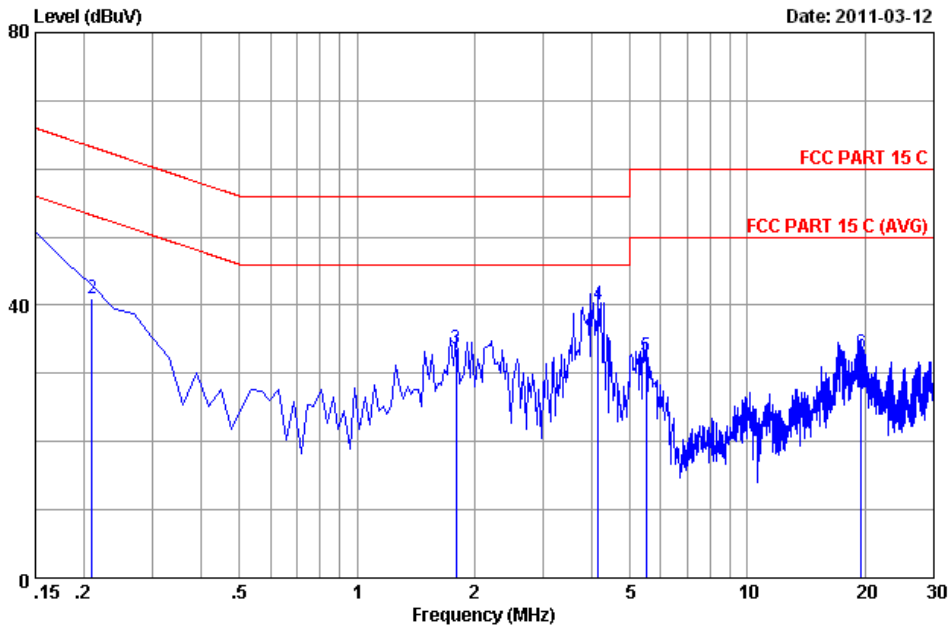
The frequency range from 150kHz to 30MHz is checked. The test result are reported on Section 3.7.

3.6. Conducted Disturbance at Mains Terminals Test Results

PASS. (All emissions not reported below are too low against the prescribed limits.)

The EUT with the following test modes were tested and selected to read Q.P values and average values, all the test results are listed in next pages.

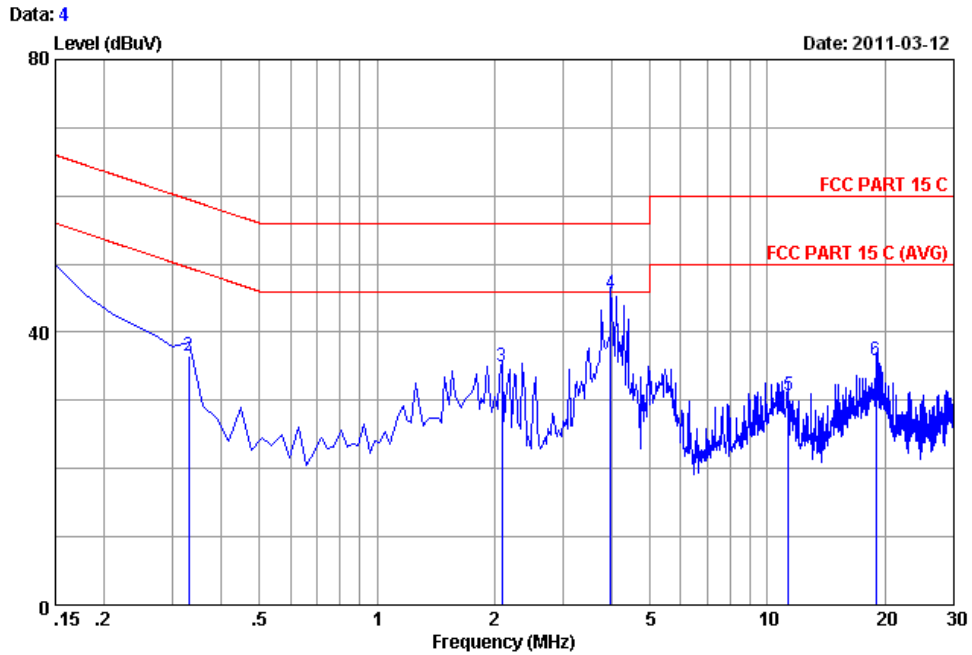
Data: 3



Site no :1#conduction Data No :3
 Dis./Ant. **: 2011 ESH2-25 LINE
 Limit :FCC PART 15 C
 Env./Ins. :Temp:23' Humi:54% ESHS10 Engineer :TaTa Chen
 EUT :Nano Receiver
 Power Rating :DC 5V From PC input AC 120V/60Hz
 Test Mode :Tx Mode
 M/N :

No	Freq (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBUV)	Emission Level (dBUV)	Limits (dBUV)	Margin (dB)	Remark
1	0.15000	0.17	9.88	38.72	48.77	66.00	17.23	QP
2	0.20970	0.17	9.88	31.00	41.05	63.22	22.17	QP
3	1.792	0.29	9.90	23.51	33.70	56.00	22.30	QP
4	4.150	0.35	9.94	29.88	40.17	56.00	15.83	QP
5	5.493	0.40	9.94	22.10	32.44	60.00	27.56	QP
6	19.523	0.99	10.08	21.94	33.01	60.00	26.99	QP

Remarks: 1.Emission Level=LISN Factor+Cable Loss(Include 10dB pulse limit)+Reading.
 2.If the average limit is met when using a quasi-peak detector. the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.



Site no :1#conduction Data No :4
 Dis./Ant. **: 2011 ESH2-25 NEUTRAL
 Limit :FCC PART 15 C
 Env./Ins. :Temp:23' Humi:54% ESHS10 Engineer :TaTa Chen
 EUT :Nano Receiver
 Power Rating :DC 5V From PC input AC 120V/60Hz
 Test Mode :Tx Mode
 M/N :

No	Freq (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.15000	0.21	9.88	37.77	47.86	66.00	18.14	QP
2	0.32910	0.22	9.88	26.37	36.47	59.47	23.00	QP
3	2.090	0.27	9.91	24.80	34.98	56.00	21.02	QP
4	3.971	0.31	9.94	35.43	45.68	56.00	10.32	QP
5	11.314	0.49	10.00	20.37	30.86	60.00	29.14	QP
6	18.926	0.73	10.07	25.14	35.94	60.00	24.06	QP

Remarks: 1.Emission Level=LISN Factor+Cable Loss(Include 10dB pulse limit)+Reading.
 2.If the average limit is met when using a quasi-peak detector. the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.

4. RADIATED EMISSION TEST

4.1. Test Equipment

Frequency rang: 30~1000MHz

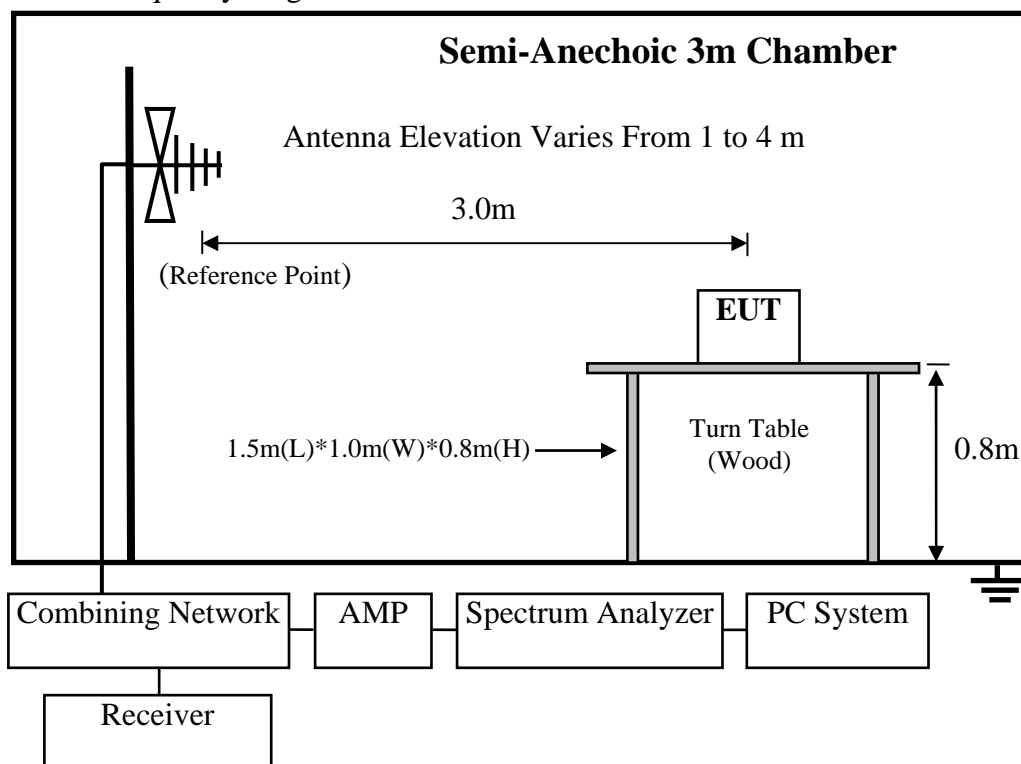
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1	3#Chamber	AUDIX	N/A	N/A	Dec.05, 10	1 Year
2	EMI Spectrum	Agilent	E4407B	MY41440292	May.08, 10	1 Year
3	Test Receiver	Rohde & Schwarz	ESVS10	834468/011	May.08, 10	1 Year
4	Amplifier	HP	8447D	2648A04738	May.08, 10	1 Year
5	Bilog Antenna	Schaffner	CBL6112D	25237	Mar. 27,10	1 Year
6	RF Cable	MIYAZAKI	8D-FB	3# Chamber No.1	May.08, 10	1 Year
7	Coaxial Switch	Anritsu	MP59B	M73989	May.08, 10	1 Year

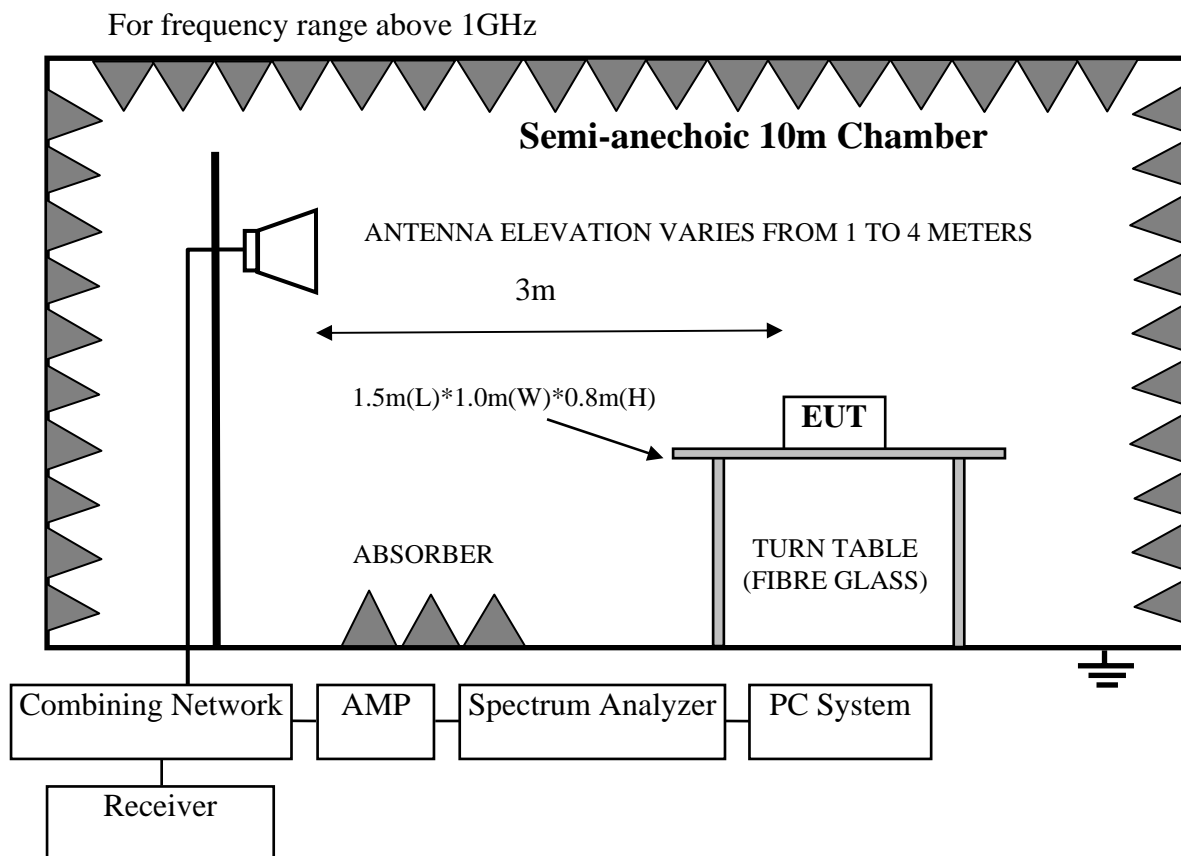
Frequency rang: above 1000MHz

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1	Spectrum Analyzer	Agilent	E4446A	US44300459	May.08, 10	1 Year
2	Horn Antenna	EMCO	3115	9607-4877	Nov.25, 09	1.5 Year
3	Horn Antenna	EMCO	3116	00060089	Nov.25, 09	1.5 Year
4	Amplifier	Agilent	8449B	3008A00863	May.08, 10	1 Year
5	RF Cable	Hubersuhner	SUCOFLEX102	28620/2	May.08, 10	1 Year
6	RF Cable	Hubersuhner	SUCOFLEX102	29091/2	May.08, 10	1 Year

4.2. Block Diagram of Test Setup

For frequency range 30MHz-1000MHz





4.3. Radiated Emission Limit Standard: FCC 15.209 and 15.249

FREQUENCY MHz	DISTANCE Meters	FIELD STRENGTHS LIMIT	
		µV/m	dB(µV)/m
30 ~ 88	3	100	40.0
88 ~ 216	3	150	43.5
216 ~ 960	3	200	46.0
960 ~ 1000	3	500	54.0
Above 1000MHz	3	74.0 dB(µV)/m (Peak) 54.0 dB(µV)/m (Average)	
Field Strength of fundamental emissions for 2.4GHz-2.4835GHz	3	114.0 dB(µV)/m (Peak) 94.0 dB(µV)/m (Average)	

- Remark :
- (1) Emission level dBµV = 20 log Emission level µV/m
 - (2) The smaller limit shall apply at the cross point between two frequency bands.
 - (3) Distance is the distance in meters between the measuring instrument, antenna and the closest point of any part of the device or system.
 - (4) The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.

4.4.Operating Condition of EUT

- 4.4.1. Setup the EUT and simulator as shown as Section 4.2.
- 4.4.2. Turned on the power of all equipment.
- 4.4.3. Let EUT work in test mode(Tx mode) and test it.

4.5.Test Procedure

The EUT and its simulators are placed on a turn table, which is 0.8 meter high above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT is set 3 meters away from the receiving antenna, which is mounted on a antenna tower. The antenna can be moved up and down between 1 meter and 4 meters to find out the maximum emission level. Broadband antenna (calibrated bilog antenna) is used as receiving antenna. Both horizontal and vertical polarization of the antenna is set on Test. In order to find the maximum emission levels, all of the interface cables must be manipulated according to ANSI C63.10-2009 on radiated emission Test.

This exploratory test was performed with EUT in X, Y, Z position with a USB extend line (0.5m long), and the worse case was found when EUT in X position and direct connected to PC as the test photo indicated and so the final test was performed with this configuration.

The bandwidth of the EMI test receiver is set at 120kHz for frequency range from 30MHz to 1000 MHz

The bandwidth of the Spectrum Analyzer's RBW is set at 1MHz and VBW is set at 3MHz for peak emissions measurement above 1GHz, and 1MHz RBW, 10Hz VBW for average measurement above 1GHz.

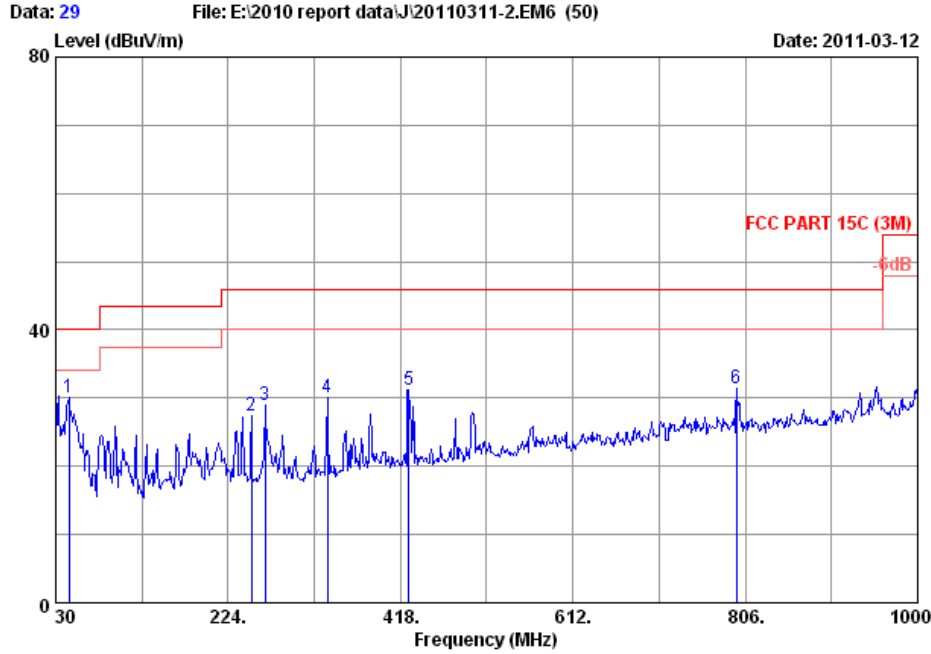
Note: For fundamental emissions, it's bandwidth is about 1.3MHz, so the Spectrum Analyzer's RBW was set at 2MHz and VBW was set at 3MHz for fundamental emissions measure.

4.6.Radiated Emission Test Results

PASS.

All the emissions from 30MHz to 25GHz were comply with the 15.209 Limit.

Emissions from 30MHz to 1GHz:

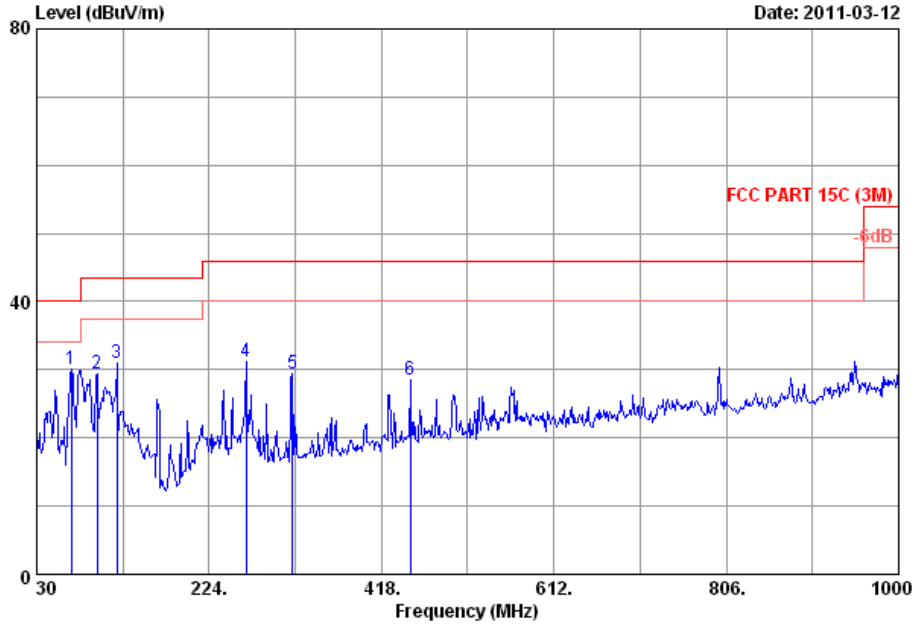


Site no. : 3m Chamber Data no. : 29
 Dis. / Ant. : 3m CBL6111C SN 2768 (11Ant. pol. : VERTICAL
 Limit : FCC PART 15C (3M)
 Env. / Ins. : 23°C/54% Engineer : TaTa Chen
 EUT : Nano Receiver
 Power Rating : DC 5V
 Test mode : Tx CH Low 2403MHz
 M/N :

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	44.550	10.88	1.08	18.10	30.06	40.00	9.94	QP
2	250.190	12.58	2.29	12.54	27.41	46.00	18.59	QP
3	265.710	13.36	2.39	13.13	28.88	46.00	17.12	QP
4	335.550	14.75	2.68	12.57	30.00	46.00	16.00	QP
5	427.700	17.42	3.06	10.80	31.28	46.00	14.72	QP
6	796.300	22.57	4.11	4.70	31.38	46.00	14.62	QP

Remarks:
 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

Data: 30 File: E:\2010 report data\J\20110311-2.EM6 (50) Date: 2011-03-12

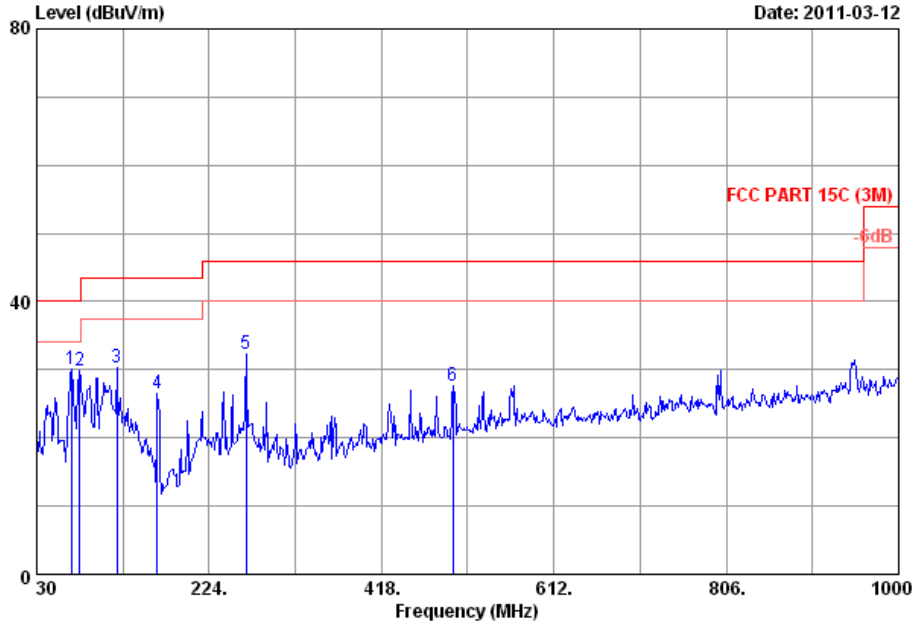


Site no. : 3m Chamber Data no. : 30
 Dis. / Ant. : 3m CBL6111C SN 2768 (11Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C (3M)
 Env. / Ins. : 23*C/54% Engineer : TaTa Chen
 EUT : Nano Receiver
 Power Rating : DC 5V
 Test mode : Tx CH Low 2403MHz
 M/N :

	Ant.	Cable	Emission					
Freq.	Factor	Loss	Reading	Level	Limits	Margin	Remark	
(MHz)	(dB/m)	(dB)	(dBUV)	(dBUV/m)	(dBUV/m)	(dB)		
1	68.800	5.61	1.23	23.28	30.12	40.00	9.88	QP
2	97.900	8.97	1.38	18.97	29.32	43.50	14.18	QP
3	120.210	10.96	1.64	18.35	30.95	43.50	12.55	QP
4	265.710	13.36	2.39	15.38	31.13	46.00	14.87	QP
5	318.090	14.10	2.61	12.64	29.35	46.00	16.65	QP
6	450.010	17.67	3.13	7.72	28.52	46.00	17.48	QP

Remarks:
 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

Data: 31 File: E:\2010 report data\J\20110311-2.EM6 (50) Date: 2011-03-12

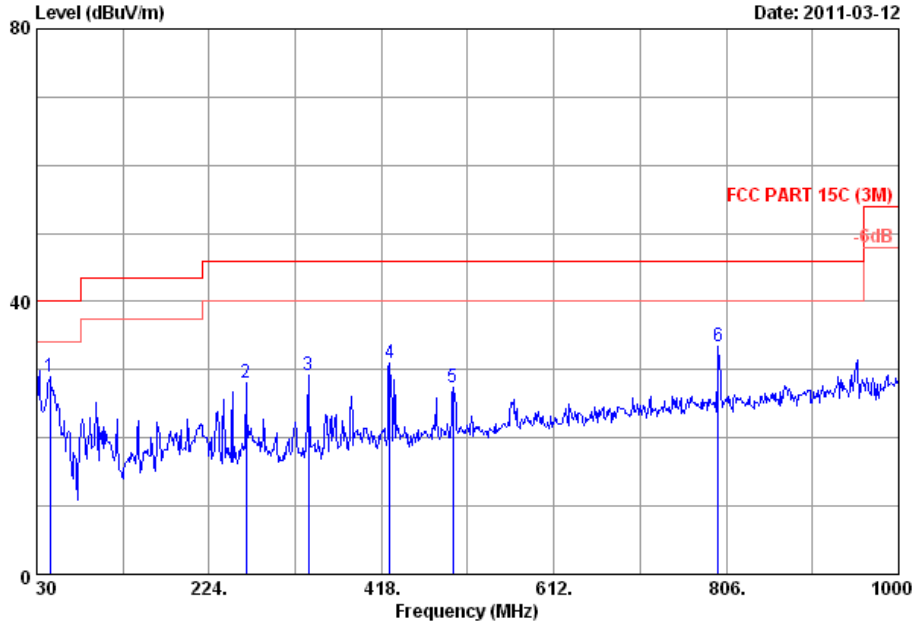


Site no. : 3m Chamber Data no. : 31
 Dis. / Ant. : 3m CBL6111C SN 2768 (11Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C (3M)
 Env. / Ins. : 23*C/54% Engineer : TaTa Chen
 EUT : Nano Receiver
 Power Rating : DC 5V
 Test mode : Tx CH Mid 2440MHz
 M/N :

	Ant.	Cable	Emission					
Freq.	Factor	Loss	Reading	Level	Limits	Margin	Remark	
(MHz)	(dB/m)	(dB)	(dBUV)	(dBUV/m)	(dBUV/m)	(dB)		
1	68.800	5.61	1.23	23.34	30.18	40.00	9.82	QP
2	78.500	6.78	1.23	21.86	29.87	40.00	10.13	QP
3	120.210	10.96	1.64	17.61	30.21	43.50	13.29	QP
4	165.800	9.82	1.85	14.80	26.47	43.50	17.03	QP
5	265.710	13.36	2.39	16.63	32.38	46.00	13.62	QP
6	498.510	18.61	3.28	5.79	27.68	46.00	18.32	QP

Remarks:
 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

Data: 32 File: E:\2010 report data\J\20110311-2.EM6 (50) Date: 2011-03-12

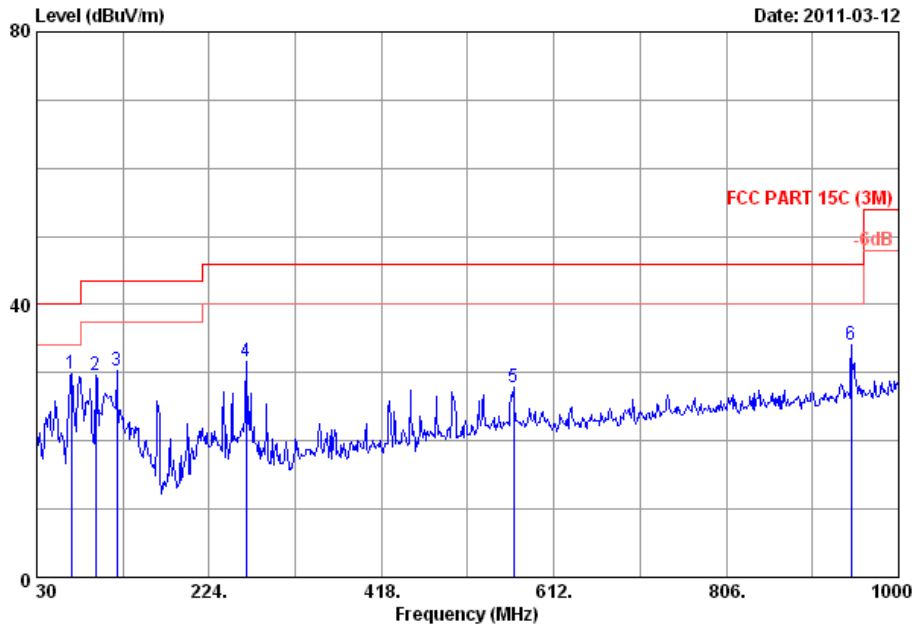


Site no. : 3m Chamber Data no. : 32
 Dis. / Ant. : 3m CBL6111C SN 2768 (11Ant. pol. : VERTICAL
 Limit : FCC PART 15C (3M)
 Env. / Ins. : 23*C/54% Engineer : TaTa Chen
 EUT : Nano Receiver
 Power Rating : DC 5V
 Test mode : Tx CH Mid 2440MHz
 M/N :

	Ant.	Cable	Emission		Limits	Margin	Remark	
Freq. (MHz)	Factor (dB/m)	Loss (dB)	Reading (dBUV)	Level (dBUV/m)	(dBUV/m)	(dB)		
1	44.550	10.88	1.08	17.02	28.98	40.00	11.02	QP
2	265.710	13.36	2.39	12.40	28.15	46.00	17.85	QP
3	335.550	14.75	2.68	11.80	29.23	46.00	16.77	QP
4	427.700	17.42	3.06	10.54	31.02	46.00	14.98	QP
5	498.510	18.61	3.28	5.52	27.41	46.00	18.59	QP
6	797.270	22.57	4.11	6.76	33.44	46.00	12.56	QP

Remarks:
 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

Data: 33 File: E:\2010 report data\J\20110311-2.EM6 (50) Date: 2011-03-12



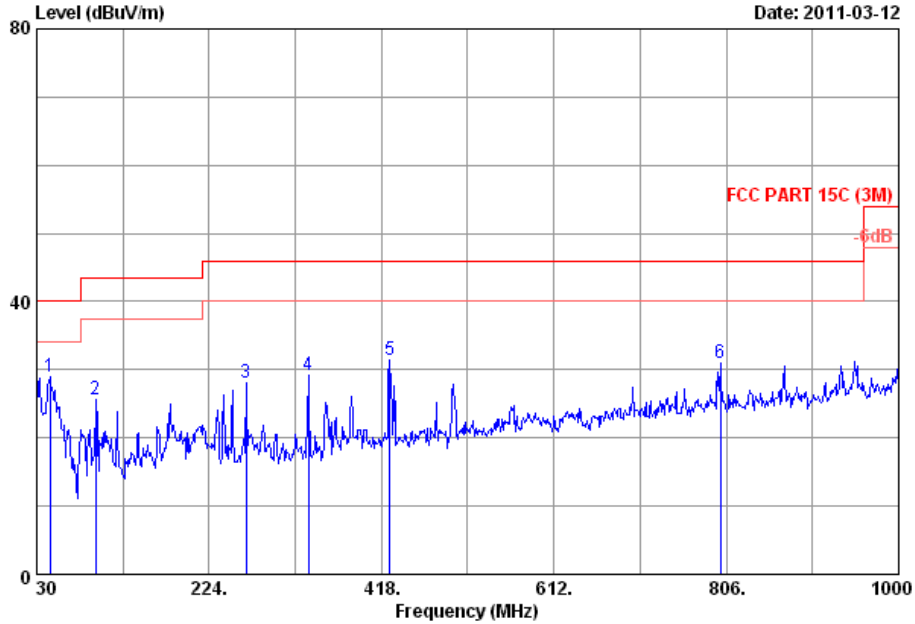
Site no. : 3m Chamber Data no. : 33
 Dis. / Ant. : 3m CBL6111C SN 2768 (11Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C (3M)
 Env. / Ins. : 23*C/54% Engineer : TaTa Chen
 EUT : Nano Receiver
 Power Rating : DC 5V
 Test mode : Tx CH High 2480MHz
 M/N :

	Ant.	Cable	Emission		Limits	Margin	Remark	
Freq. (MHz)	Factor (dB/m)	Loss (dB)	Reading (dBuV)	Level (dBuV/m)	(dBuV/m)	(dB)		
1	68.800	5.61	1.23	22.93	29.77	40.00	10.23	QP
2	95.960	8.86	1.38	19.35	29.59	43.50	13.91	QP
3	120.210	10.96	1.64	17.76	30.36	43.50	13.14	QP
4	265.710	13.36	2.39	15.80	31.55	46.00	14.45	QP
5	566.410	20.08	3.52	4.34	27.94	46.00	18.06	QP
6	946.650	24.65	4.59	4.93	34.17	46.00	11.83	QP

Remarks:

1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

Data: 34 File: E:\2010 report data\J\20110311-2.EM6 (50) Date: 2011-03-12

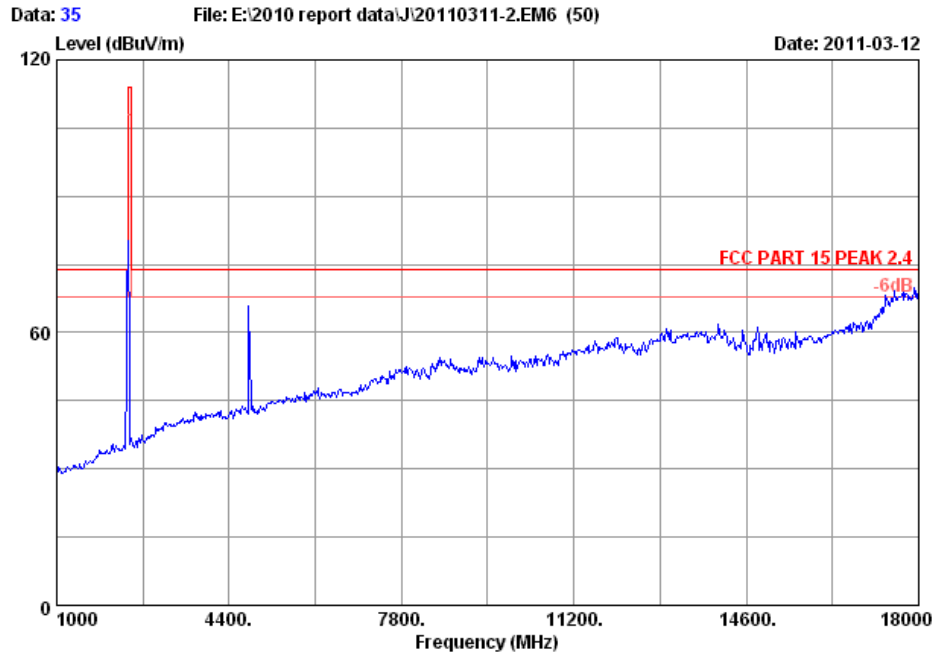


Site no. : 3m Chamber Data no. : 34
 Dis. / Ant. : 3m CBL6111C SN 2768 (11Ant. pol. : VERTICAL
 Limit : FCC PART 15C (3M)
 Env. / Ins. : 23*C/54% Engineer : TaTa Chen
 EUT : Nano Receiver
 Power Rating : DC 5V
 Test mode : Tx CH High 2480MHz
 M/N :

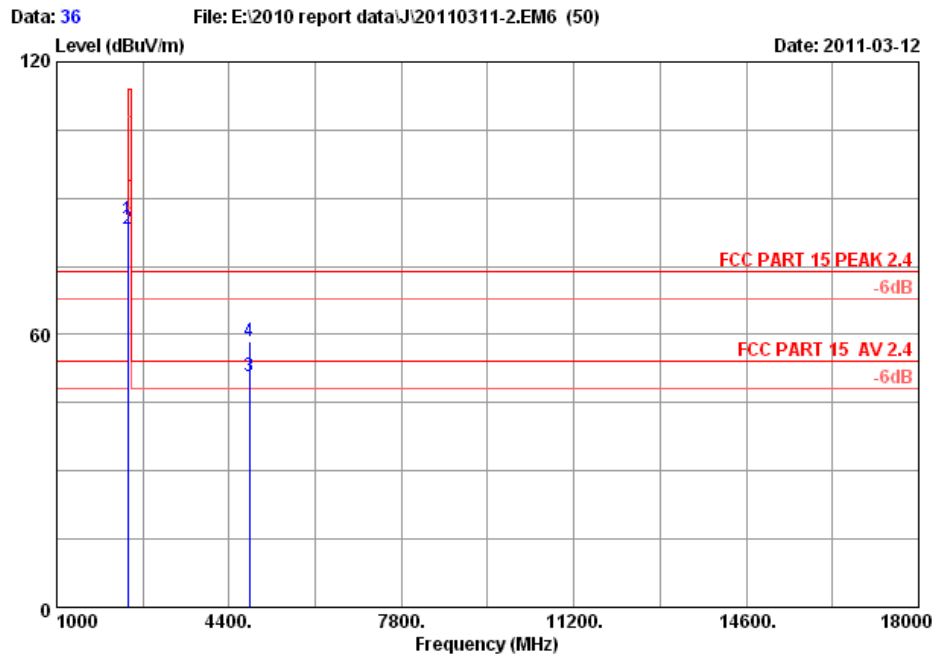
	Ant.	Cable	Emission		Limits	Margin	Remark	
Freq. (MHz)	Factor (dB/m)	Loss (dB)	Reading (dBUV)	Level (dBUV/m)	(dBUV/m)	(dB)		
1	44.550	10.88	1.08	17.02	28.98	40.00	11.02	QP
2	95.960	8.86	1.38	15.46	25.70	43.50	17.80	QP
3	265.710	13.36	2.39	12.40	28.15	46.00	17.85	QP
4	335.550	14.75	2.68	11.86	29.29	46.00	16.71	QP
5	427.700	17.42	3.06	10.88	31.36	46.00	14.64	QP
6	799.210	22.57	4.11	4.28	30.96	46.00	15.04	QP

Remarks:
 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

Emissions from 1GHz to 25GHz:



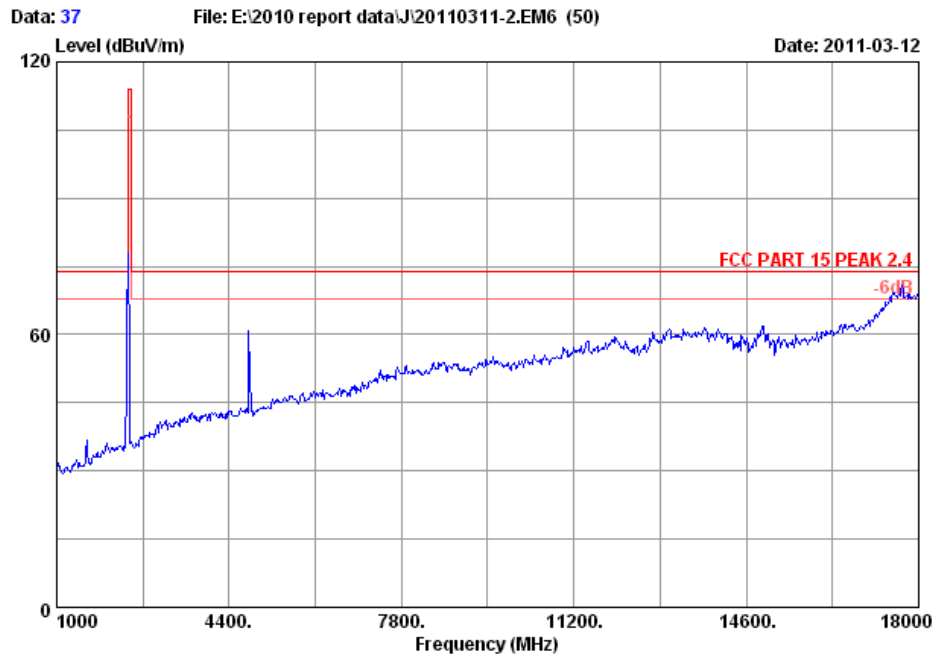
Site no.	: 3# Chamber	Data no.	: 35
Dis. / Ant.	: 3m 3115(0911)	Ant. pol.	: HORIZONTAL
Limit	: FCC PART 15 PEAK 2.4	Engineer	: TaTa Chen
Env. / Ins.	: 23°C/54%		
EUT	: NanoReceiver		
Power	: DC 5V		
Test mode	: Tx CH Low 2403MHz		
M/N	:		



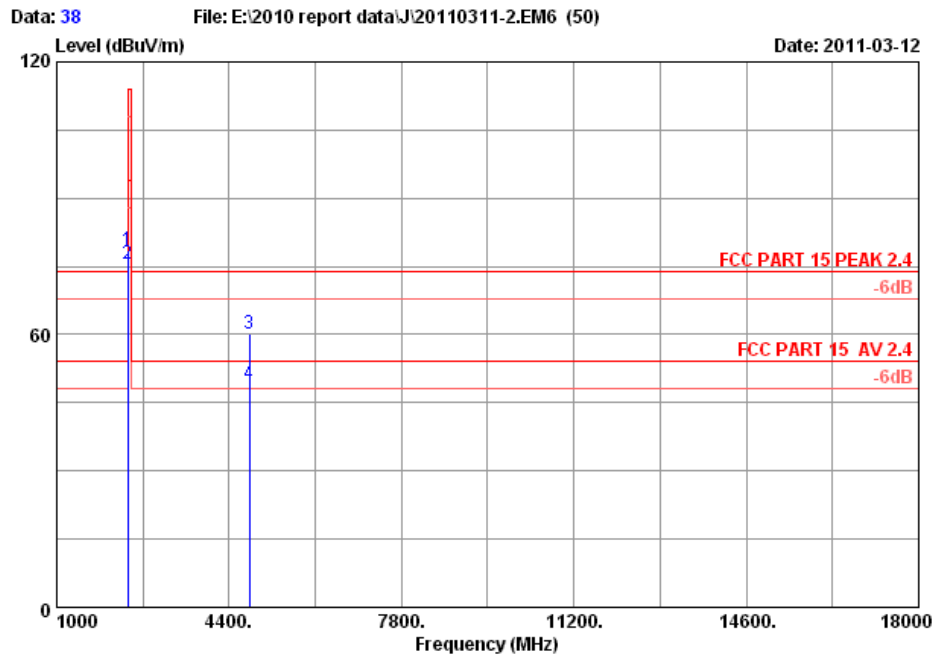
Site no. : 3# Chamber Data no. : 36
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15 PEAK 2.4
 Env. / Ins. : 23°C/54% Engineer : TaTa Chen
 EUT : Nano Receiver
 Power : DC 5V
 Test mode : Tx CH Low 2403MHz
 M/N :

	Ant. Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2403.000	29.45	7.43	36.62	84.88	85.14	114.00	28.86	Peak
2	2403.000	29.45	7.43	36.62	83.10	83.36	94.00	10.64	Average
3	4806.000	34.30	10.62	35.10	40.88	50.70	54.00	3.30	Average
4	4806.000	34.30	10.62	35.10	48.59	58.41	74.00	15.59	Peak

Remarks:
 1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no.	: 3# Chamber	Data no.	: 37
Dis. / Ant.	: 3m 3115(0911)	Ant. pol.	: VERTICAL
Limit	: FCC PART 15 PEAK 2.4		
Env. / Ins.	: 23°C/54%	Engineer	: TaTa Chen
EUT	: NanoReceiver		
Power	: DC 5V		
Test mode	: Tx CH Low 2403MHz		
M/N	:		

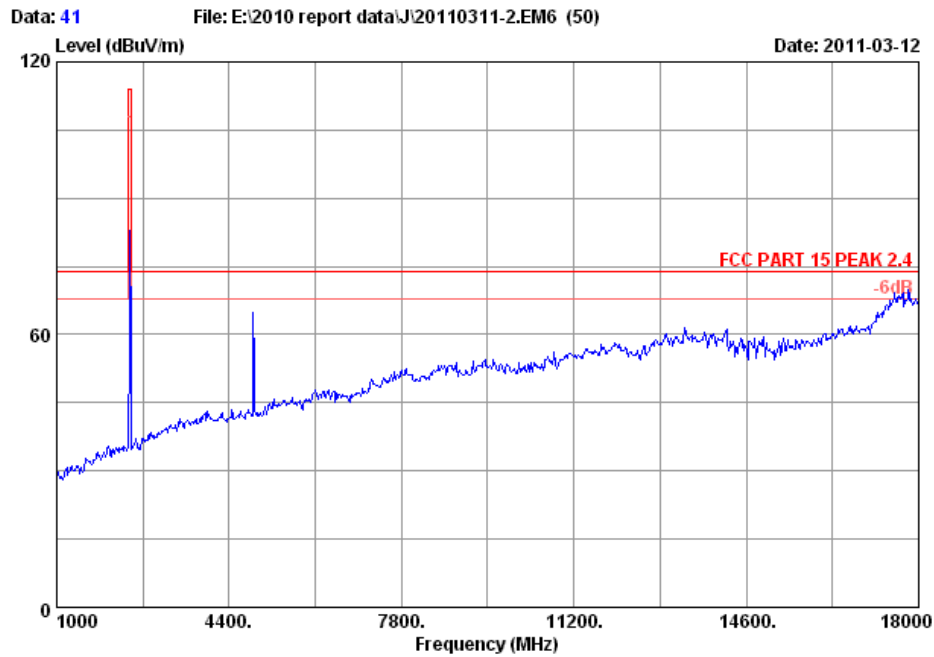


Site no. : 3# Chamber Data no. : 38
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15 PEAK 2.4
 Env. / Ins. : 23°C/54% Engineer : TaTa Chen
 EUT : Nano Receiver
 Power : DC 5V
 Test mode : Tx CH Low 2403MHz
 M/N :

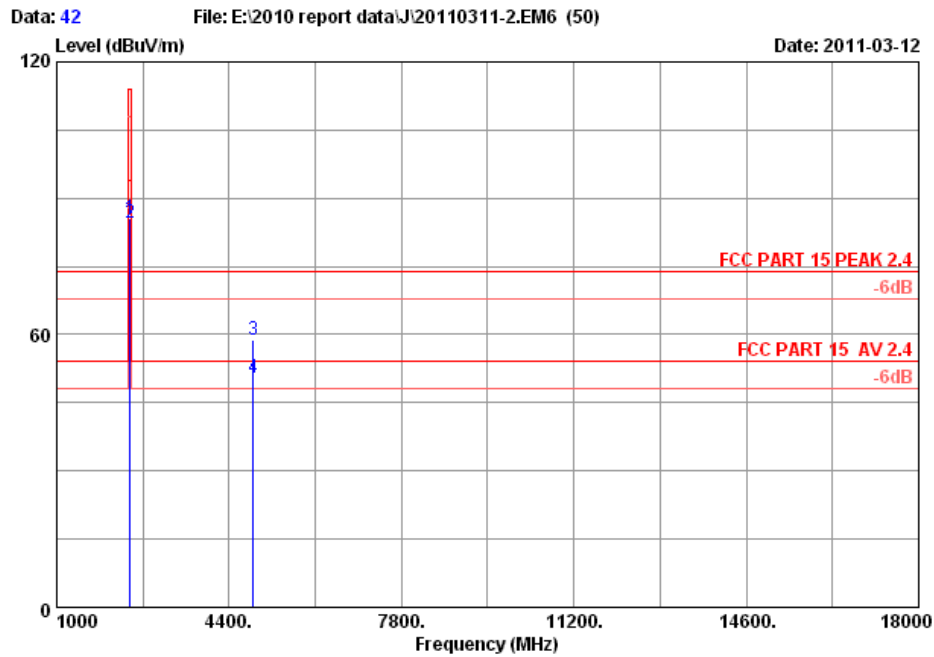
	Ant. Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2403.000	29.45	7.43	36.62	78.46	78.72	114.00	35.28	Peak
2	2403.000	29.45	7.43	36.62	75.31	75.57	94.00	18.43	Average
3	4806.000	34.30	10.62	35.10	50.19	60.01	74.00	13.99	Peak
4	4806.000	34.30	10.62	35.10	39.32	49.14	54.00	4.86	Average

Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



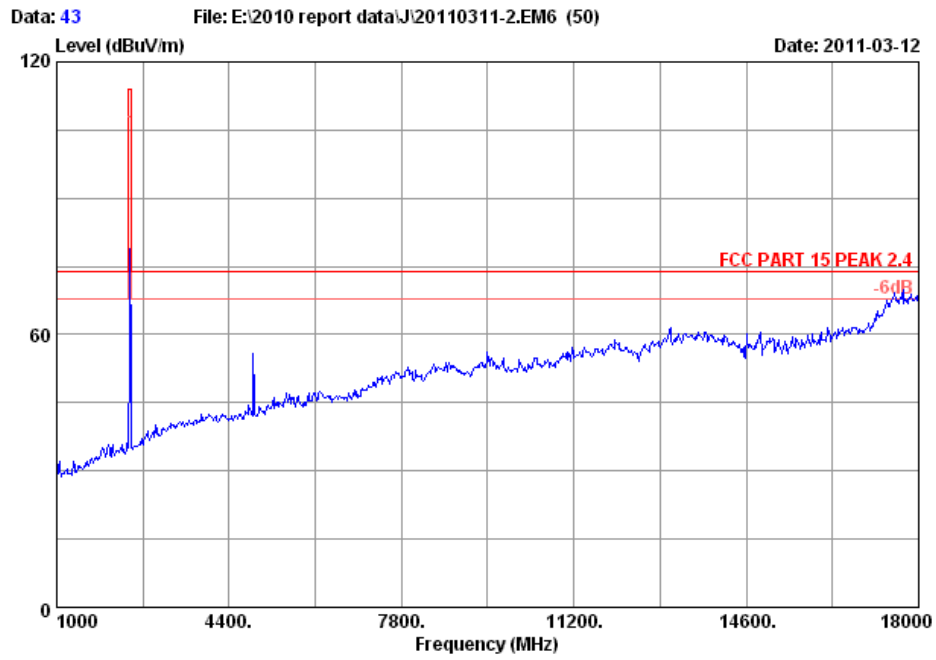
Site no.	: 3# Chamber	Data no.	: 41
Dis. / Ant.	: 3m 3115(0911)	Ant. pol.	: HORIZONTAL
Limit	: FCC PART 15 PEAK 2.4		
Env. / Ins.	: 23°C/54%	Engineer	: TaTa Chen
EUT	: NanoReceiver		
Power	: DC 5V		
Test mode	: Tx CH Mid 2440MHz		
M/N	:		



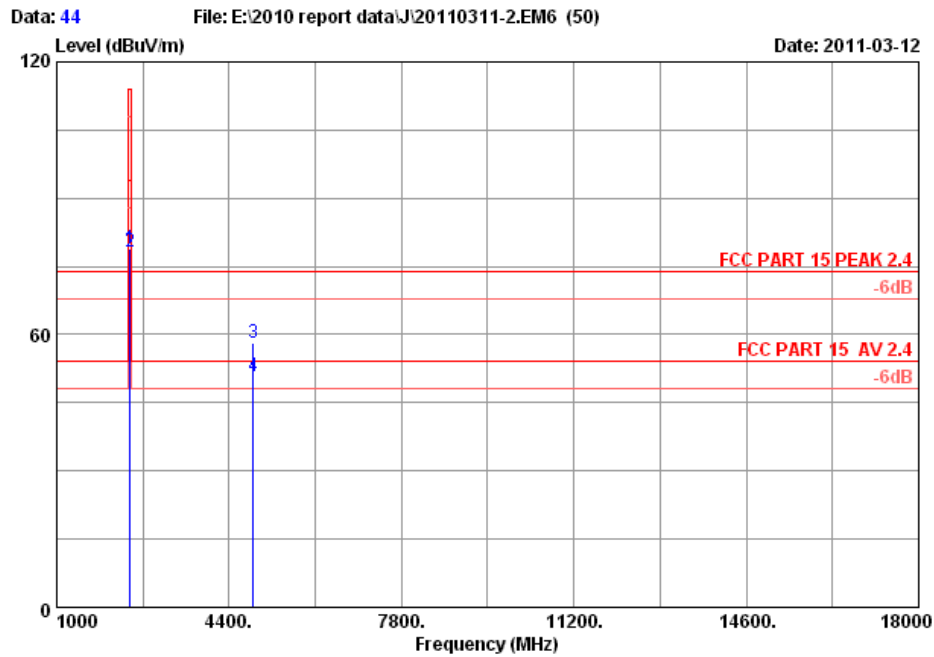
Site no. : 3# Chamber Data no. : 42
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15 PEAK 2.4
 Env. / Ins. : 23°C/54% Engineer : TaTa Chen
 EUT : Nano Receiver
 Power : DC 5V
 Test mode : Tx CH Mid 2440MHz
 M/N :

	Ant. Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2440.000	29.47	7.50	36.61	85.26	85.62	114.00	28.38	Peak
2	2440.000	29.47	7.50	36.61	84.32	84.68	94.00	9.32	Average
3	4880.000	34.41	10.71	35.03	48.67	58.76	74.00	15.24	Peak
4	4880.000	34.41	10.71	35.03	40.36	50.45	54.00	3.55	Average

Remarks:
 1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



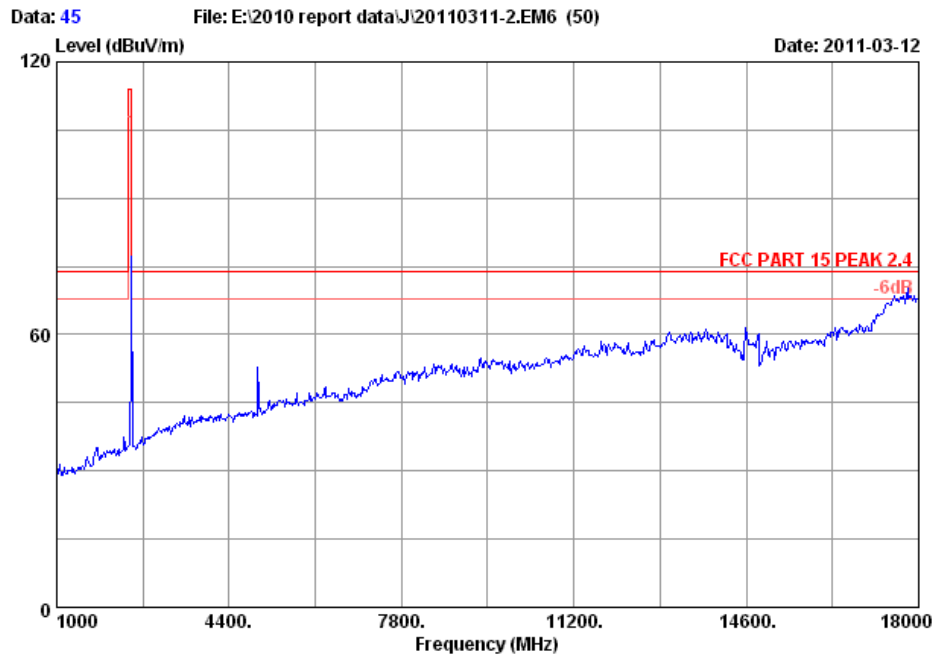
Site no.	: 3# Chamber	Data no.	: 43
Dis. / Ant.	: 3m 3115(0911)	Ant. pol.	: VERTICAL
Limit	: FCC PART 15 PEAK 2.4		
Env. / Ins.	: 23°C/54%	Engineer	: TaTa Chen
EUT	: NanoReceiver		
Power	: DC 5V		
Test mode	: Tx CH Mid 2440MHz		
M/N	:		



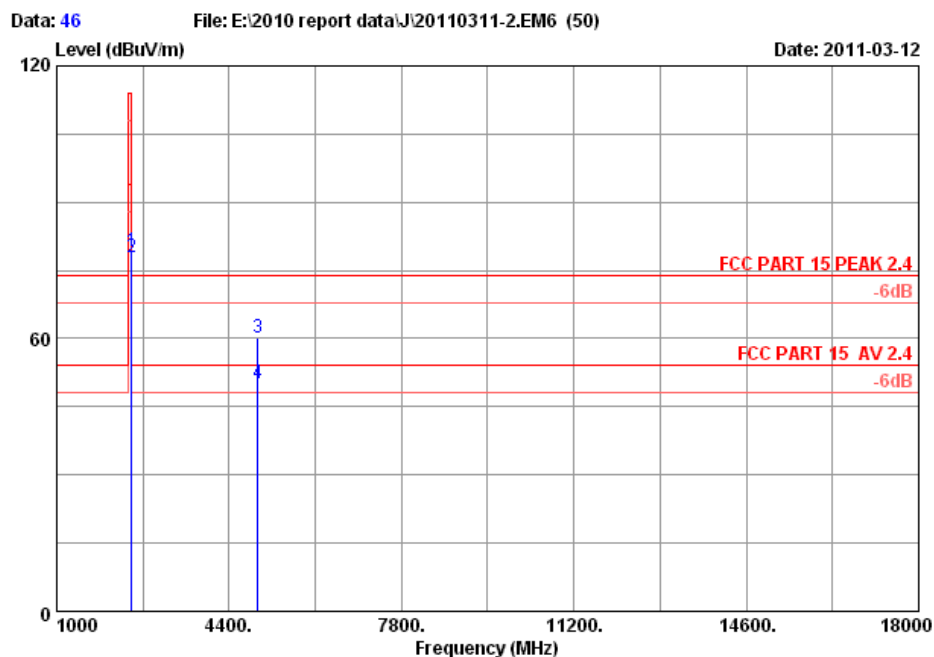
Site no. : 3# Chamber Data no. : 44
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15 PEAK 2.4
 Env. / Ins. : 23°C/54% Engineer : TaTa Chen
 EUT : NanoReceiver
 Power : DC 5V
 Test mode : Tx CH Mid 2440MHz
 M/N :

	Ant. Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2440.000	29.47	7.50	36.61	78.38	78.74	114.00	35.26	Peak
2	2440.000	29.47	7.50	36.61	77.95	78.31	94.00	15.69	Average
3	4880.000	34.41	10.71	35.03	48.21	58.30	74.00	15.70	Peak
4	4880.000	34.41	10.71	35.03	40.55	50.64	54.00	3.36	Average

Remarks:
 1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no.	: 3# Chamber	Data no.	: 45
Dis. / Ant.	: 3m 3115(0911)	Ant. pol.	: VERTICAL
Limit	: FCC PART 15 PEAK 2.4		
Env. / Ins.	: 23°C/54%	Engineer	: TaTa Chen
EUT	: NanoReceiver		
Power	: DC 5V		
Test mode	: Tx CH High 2480MHz		
M/N	:		

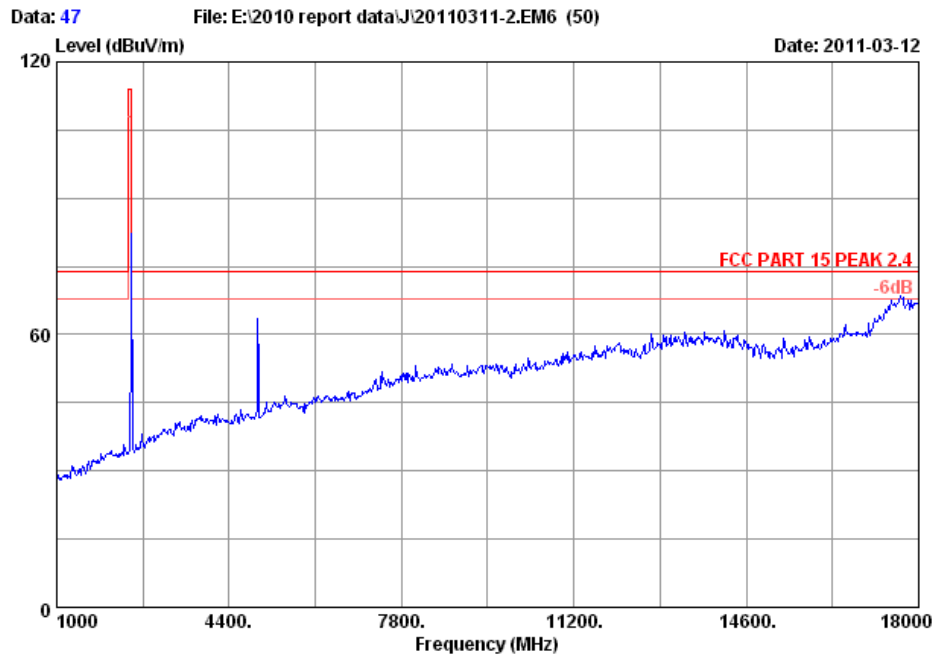


Site no. : 3# Chamber Data no. : 46
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15 PEAK 2.4
 Env. / Ins. : 23°C/54% Engineer : TaTa Chen
 EUT : NanoReceiver
 Power : DC 5V
 Test mode : Tx CH High 2480MHz
 M/N :

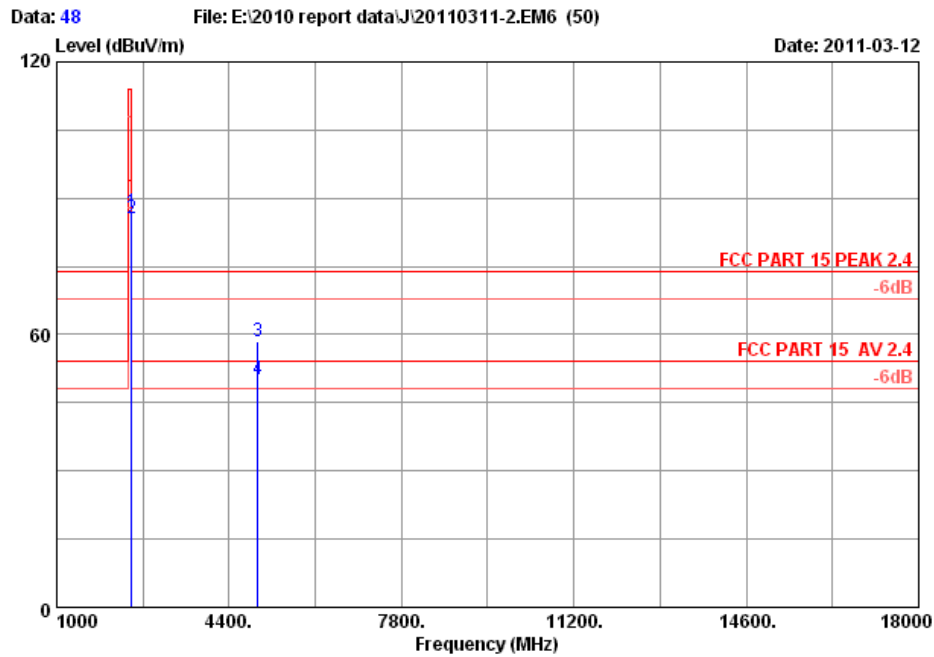
	Ant. Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2480.000	29.49	7.58	36.60	78.86	79.33	114.00	34.67	Peak
2	2480.000	29.49	7.58	36.60	77.51	77.98	94.00	16.02	Average
3	4960.000	34.54	10.80	34.95	49.72	60.11	74.00	13.89	Peak
4	4960.000	34.54	10.80	34.95	39.70	50.09	54.00	3.91	Average

Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



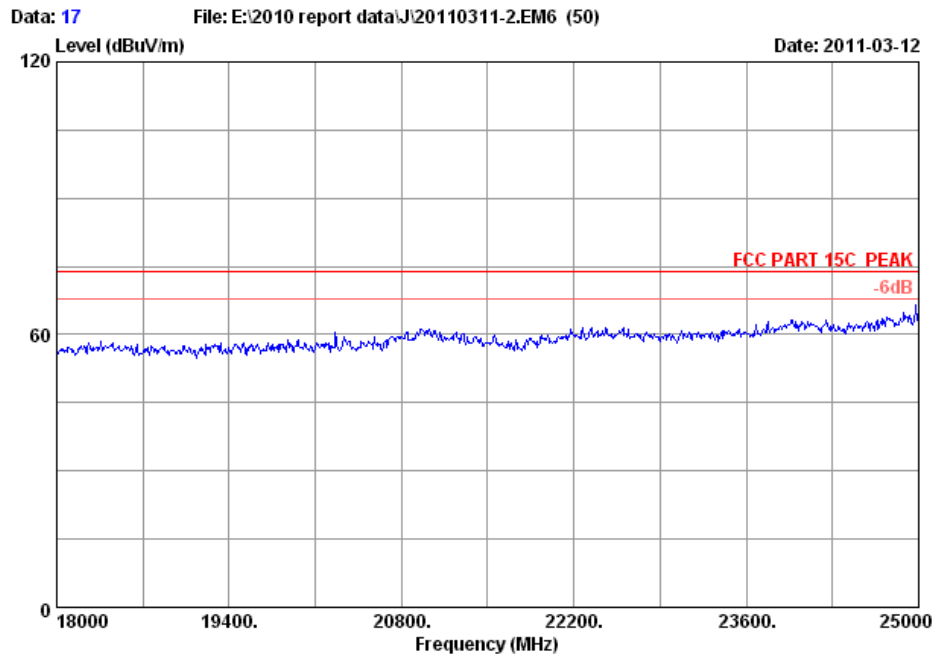
Site no.	: 3# Chamber	Data no.	: 47
Dis. / Ant.	: 3m 3115(0911)	Ant. pol.	: HORIZONTAL
Limit	: FCC PART 15 PEAK 2.4		
Env. / Ins.	: 23°C/54%	Engineer	: TaTa Chen
EUT	: NanoReceiver		
Power	: DC 5V		
Test mode	: Tx CH High 2480MHz		
M/N	:		



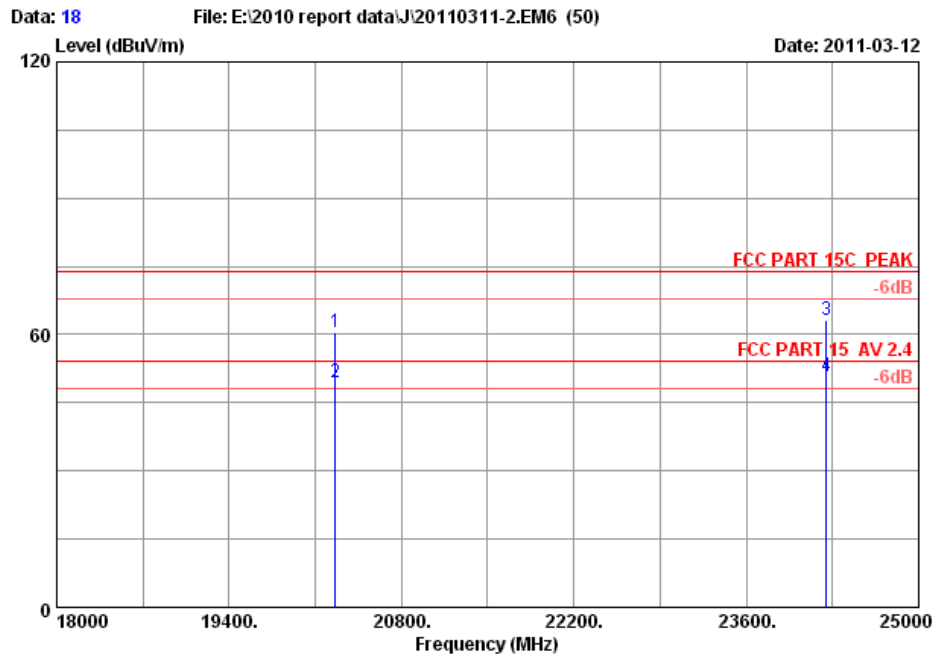
Site no. : 3# Chamber Data no. : 48
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15 PEAK 2.4
 Env. / Ins. : 23°C/54% Engineer : TaTa Chen
 EUT : Nano Receiver
 Power : DC 5V
 Test mode : Tx CH High 2480MHz
 M/N :

	Ant. Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2480.000	29.49	7.58	36.60	86.31	86.78	114.00	27.22	Peak
2	2480.000	29.49	7.58	36.60	85.09	85.56	94.00	8.44	Average
3	4960.000	34.54	10.80	34.95	48.16	58.55	74.00	15.45	Peak
4	4960.000	34.54	10.80	34.95	39.64	50.03	54.00	3.97	Average

Remarks:
 1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



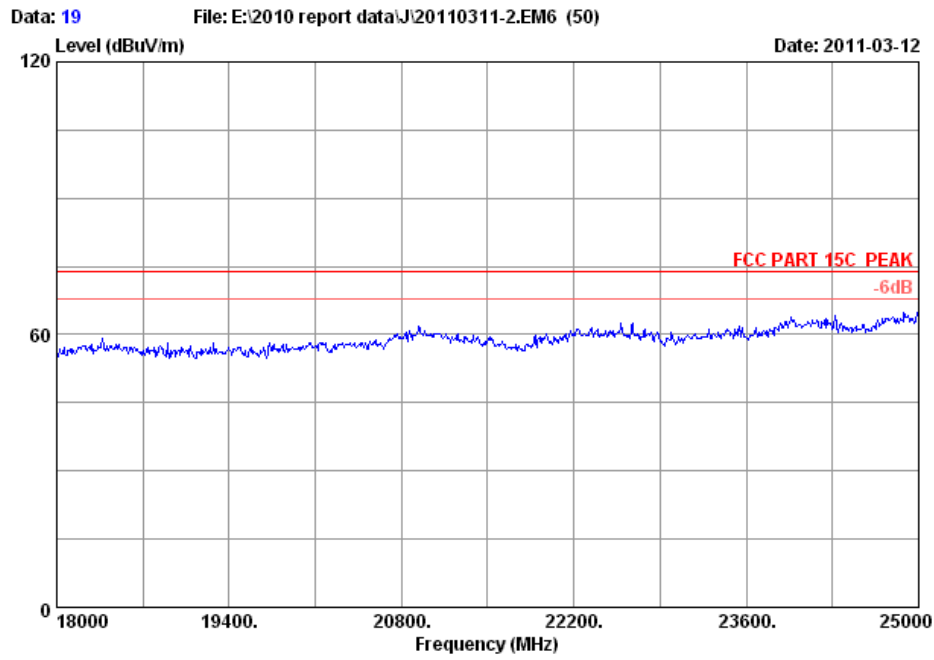
Site no.	: 3# Chamber	Data no. :	17
Dis. / Ant.	: 3m 3116 T	Ant. pol. :	VERTICAL
Limit	: FCC PART 15C PEAK		
Env. / Ins.	: 23°C/54%	Engineer :	TaTa Chen
EUT	: Nano Receiver		
Power	: DC 5V		
Test mode	: Tx CH High 2480MHz		
M/N	:		



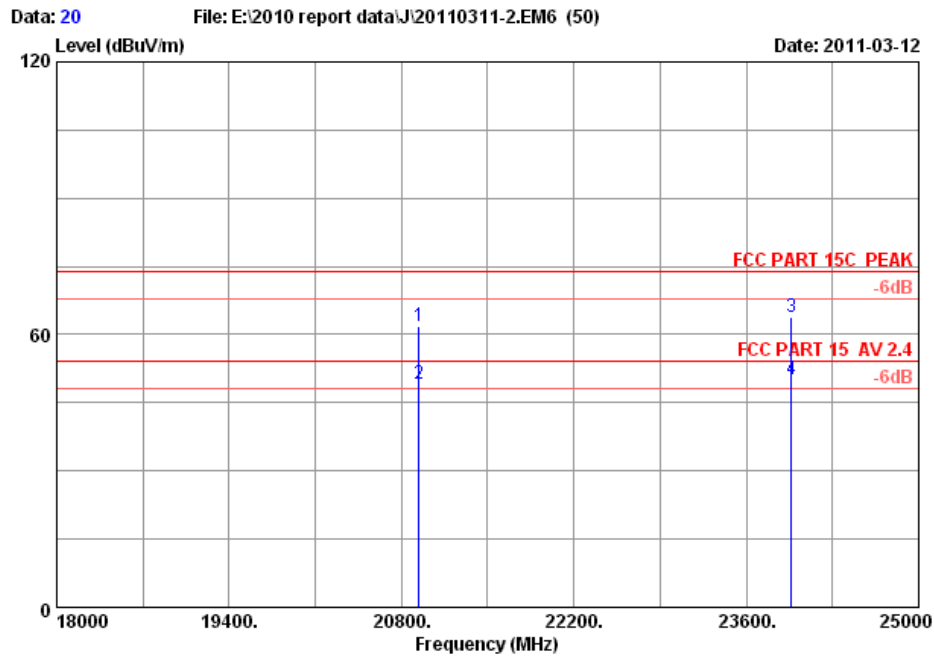
Site no. : 3# Chamber Data no. : 18
 Dis. / Ant. : 3m 3116 T Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : TaTa Chen
 EUT : NanoReceiver
 Power : DC 5V
 Test mode : Tx CH High 2480MHz
 M/N :

	Ant. Freq. (MHz)	Cable Factor (dB/m)	Amp. loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	20261.000	40.05	18.46	35.40	37.31	60.42	74.00	13.58	Peak
2	20261.000	40.05	18.46	35.40	26.36	49.47	54.00	4.53	Average
3	24251.000	39.65	20.05	33.90	37.21	63.01	74.00	10.99	Peak
4	24251.000	39.65	20.05	33.90	24.95	50.75	54.00	3.25	Average

Remarks:
 1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no.	: 3# Chamber	Data no.	: 19
Dis. / Ant.	: 3m 3116 T	Ant. pol.	: HORIZONTAL
Limit	: FCC PART 15C PEAK		
Env. / Ins.	: 23°C/54%	Engineer	: TaTa Chen
EUT	: NanoReceiver		
Power	: DC 5V		
Test mode	: Tx CH High 2480MHz		
M/N	:		

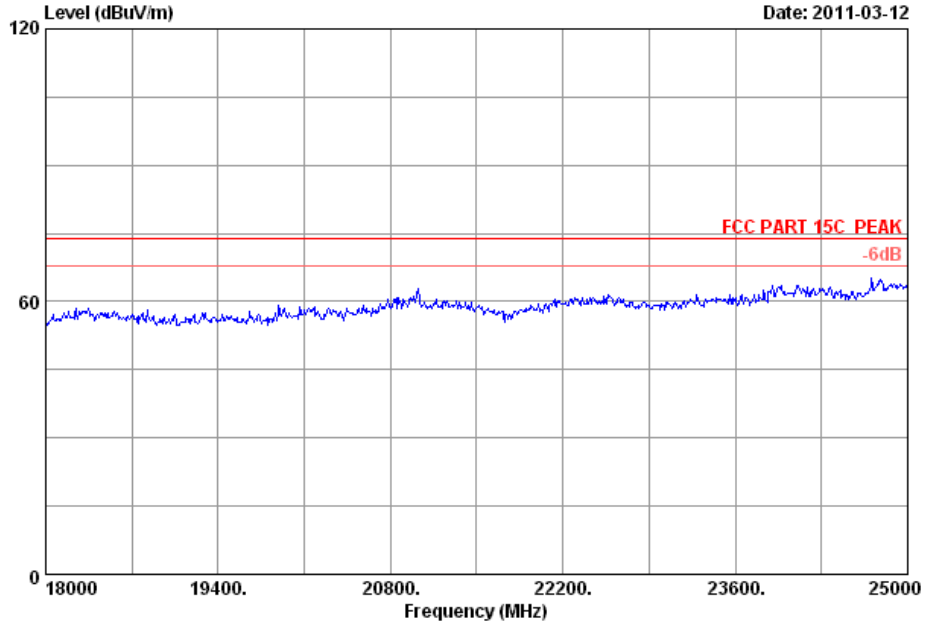


Site no. : 3# Chamber Data no. : 20
 Dis. / Ant. : 3m 3116 T Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : TaTa Chen
 EUT : Nano Receiver
 Power : DC 5V
 Test mode : Tx CH High 2480MHz
 M/N :

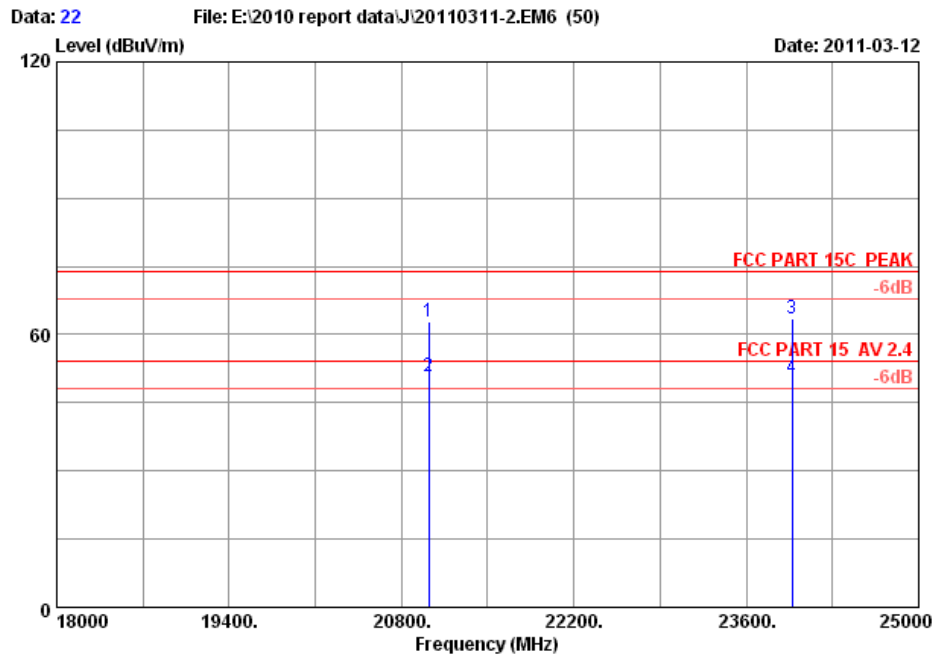
	Ant. Freq. (MHz)	Cable Factor (dB/m)	Amp. loss (dB)	Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	20940.000	40.27	18.73	33.58	36.48	61.90	74.00	12.10	Peak
2	20940.000	40.27	18.73	33.58	23.66	49.08	54.00	4.92	Average
3	23964.000	39.61	19.93	33.16	37.41	63.79	74.00	10.21	Peak
4	23964.000	39.61	19.93	33.16	23.65	50.03	54.00	3.97	Average

Remarks:
 1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

Data: 21 File: E:\2010 report data\J20110311-2.EM6 (50) Date: 2011-03-12



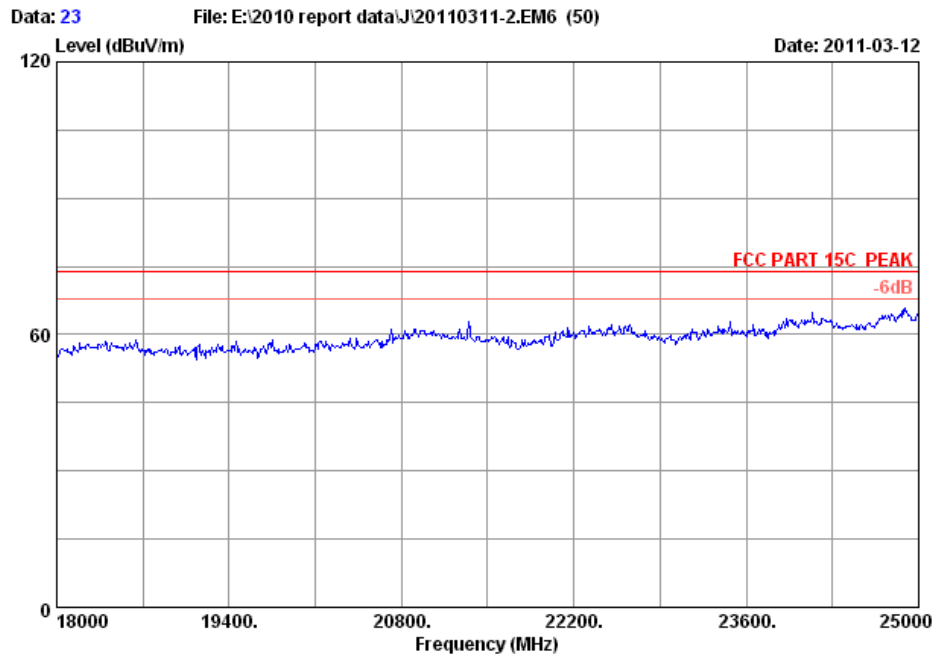
Site no.	: 3# Chamber	Data no.	: 21
Dis. / Ant.	: 3m 3116 T	Ant. pol.	: HORIZONTAL
Limit	: FCC PART 15C PEAK		
Env. / Ins.	: 23°C/54%	Engineer	: TaTa Chen
EUT	: NanoReceiver		
Power	: DC 5V		
Test mode	: Tx CH Mid 2440MHz		
M/N	:		



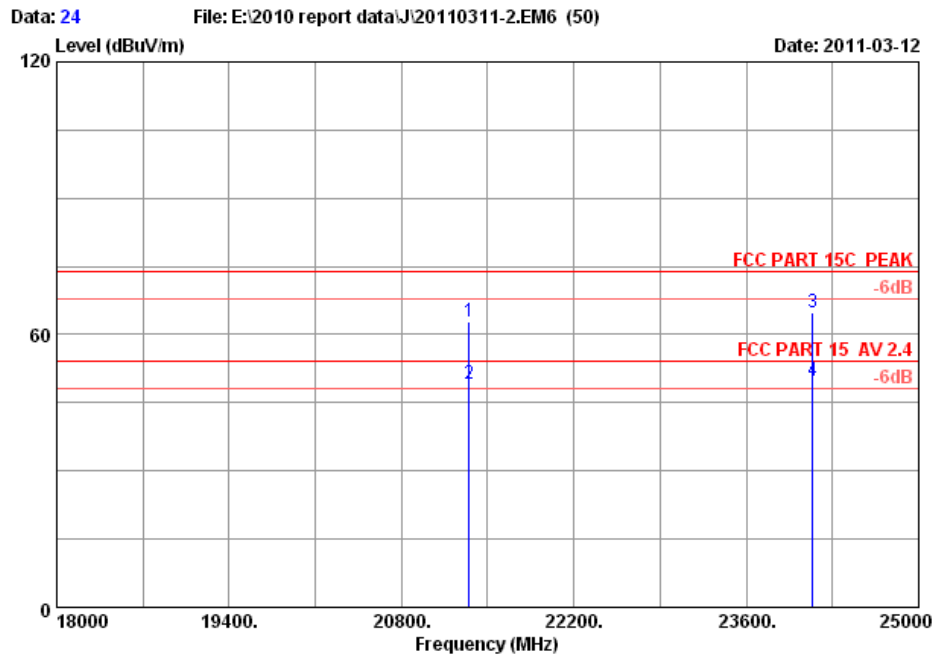
Site no. : 3# Chamber Data no. : 22
 Dis. / Ant. : 3m 3116 T Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : TaTa Chen
 EUT : NanoReceiver
 Power : DC 5V
 Test mode : Tx CH Mid 2440MHz
 M/N :

	Ant. Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Emission Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	21024.000	40.29	18.76	33.49	37.21	62.77	74.00	11.23	Peak
2	21024.000	40.29	18.76	33.49	25.35	50.91	54.00	3.09	Average
3	23971.000	39.61	19.93	33.16	37.26	63.64	74.00	10.36	Peak
4	23971.000	39.61	19.93	33.16	23.96	50.34	54.00	3.66	Average

Remarks:
 1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no.	: 3# Chamber	Data no.	: 23
Dis. / Ant.	: 3m 3116 T	Ant. pol.	: VERTICAL
Limit	: FCC PART 15C PEAK		
Env. / Ins.	: 23°C/54%	Engineer	: TaTa Chen
EUT	: NanoReceiver		
Power	: DC 5V		
Test mode	: Tx CH Mid 2440MHz		
M/N	:		

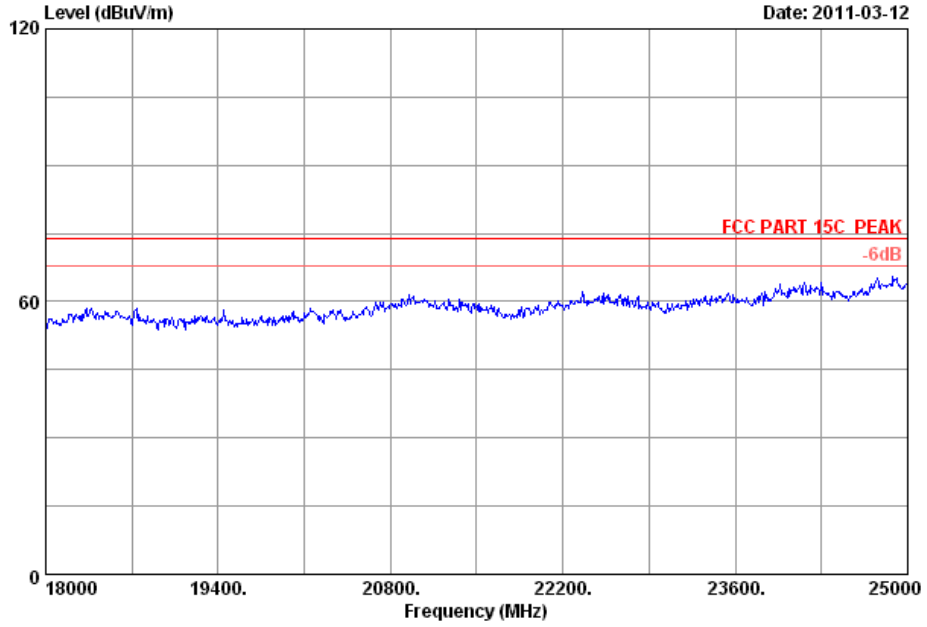


Site no. : 3# Chamber Data no. : 24
 Dis. / Ant. : 3m 3116 T Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : TaTa Chen
 EUT : NanoReceiver
 Power : DC 5V
 Test mode : Tx CH Mid 2440MHz
 M/N :

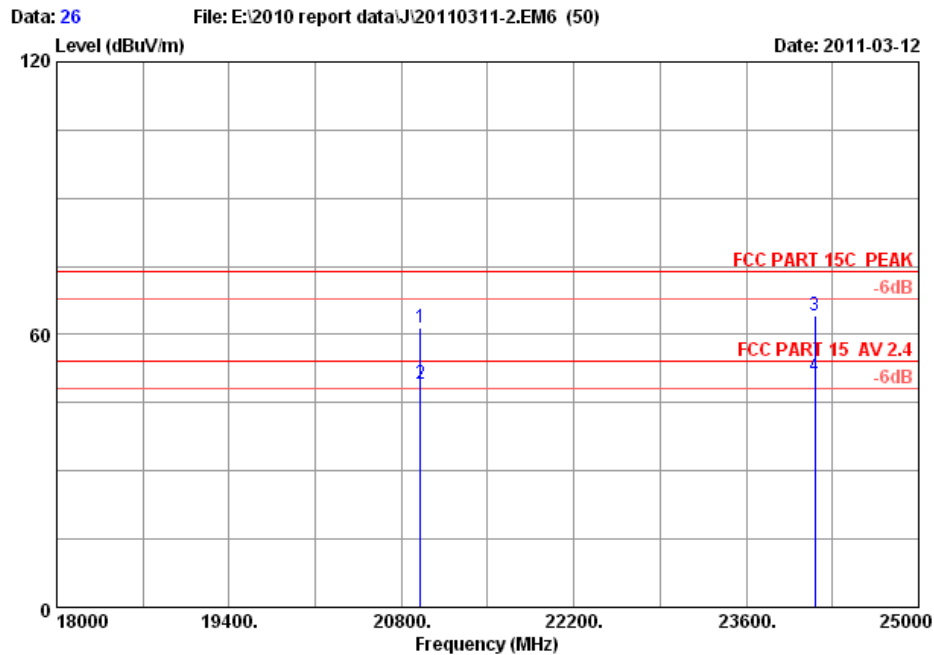
	Ant. Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Emission Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	21346.000	40.09	18.89	34.59	38.58	62.97	74.00	11.03	Peak
2	21346.000	40.09	18.89	34.59	24.74	49.13	54.00	4.87	Average
3	24139.000	39.63	20.00	33.50	38.79	64.92	74.00	9.08	Peak
4	24139.000	39.63	20.00	33.50	23.58	49.71	54.00	4.29	Average

Remarks:
 1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

Data: 25 File: E:\2010 report data\J20110311-2.EM6 (50) Date: 2011-03-12



Site no.	: 3# Chamber	Data no.	: 25
Dis. / Ant.	: 3m 3116 T	Ant. pol.	: VERTICAL
Limit	: FCC PART 15C PEAK		
Env. / Ins.	: 23°C/54%	Engineer	: TaTa Chen
EUT	: Nano Receiver		
Power	: DC 5V		
Test mode	: Tx CH Low 2403MHz		
M/N	:		

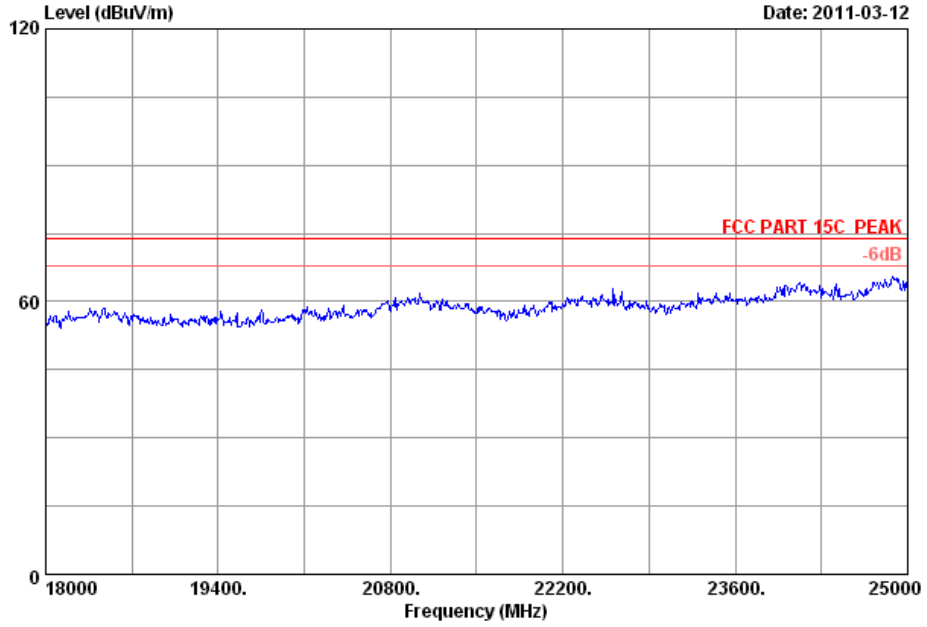


Site no. : 3# Chamber Data no. : 26
 Dis. / Ant. : 3m 3116 T Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : TaTa Chen
 EUT : Nano Receiver
 Power : DC 5V
 Test mode : Tx CH Low 2403MHz
 M/N :

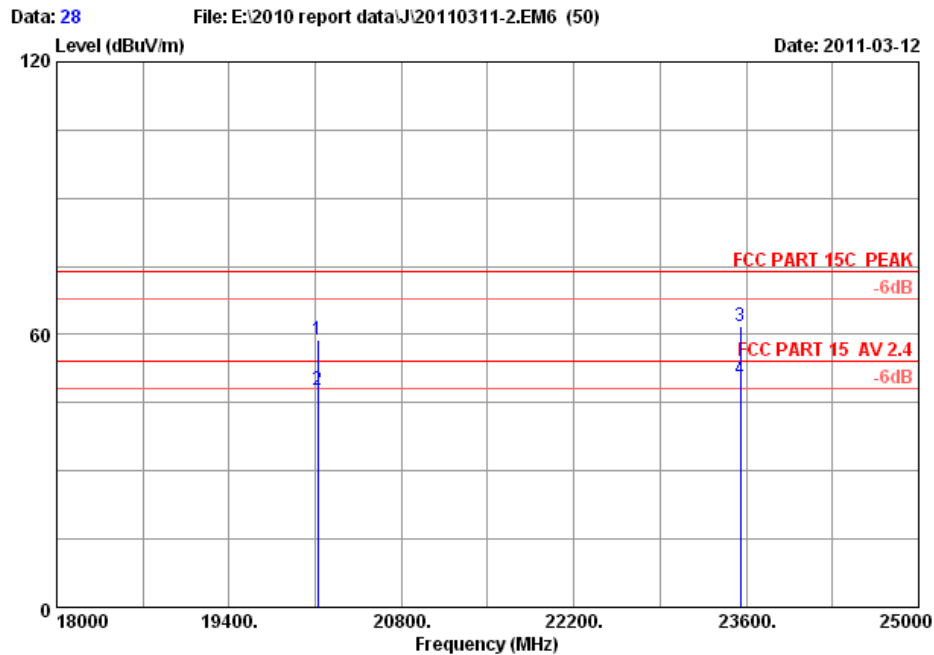
	Ant. Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Emission Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	20954.000	40.27	18.73	33.49	35.92	61.43	74.00	12.57	Peak
2	20954.000	40.27	18.73	33.49	23.70	49.21	54.00	4.79	Average
3	24160.000	39.63	20.01	33.58	38.25	64.31	74.00	9.69	Peak
4	24160.000	39.63	20.01	33.58	24.67	50.73	54.00	3.27	Average

Remarks:
 1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

Data: 27 File: E:\2010 report data\J20110311-2.EM6 (50) Date: 2011-03-12



Site no.	: 3# Chamber	Data no.	: 27
Dis. / Ant.	: 3m 3116 T	Ant. pol.	: HORIZONTAL
Limit	: FCC PART 15C PEAK		
Env. / Ins.	: 23°C/54%	Engineer	: TaTa Chen
EUT	: NanoReceiver		
Power	: DC 5V		
Test mode	: Tx CH Low 2403MHz		
M/N	:		



Site no. : 3# Chamber Data no. : 28
 Dis. / Ant. : 3m 3116 T Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : TaTa Chen
 EUT : Nano Receiver
 Power : DC 5V
 Test mode : Tx CH Low 2403MHz
 M/N :

	Ant. Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Emission Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	20121.000	40.08	18.40	35.55	35.86	58.79	74.00	15.21	Peak
2	20121.000	40.08	18.40	35.55	24.76	47.69	54.00	6.31	Average
3	23551.000	39.69	19.77	34.27	36.67	61.86	74.00	12.14	Peak
4	23551.000	39.69	19.77	34.27	24.86	50.05	54.00	3.95	Average

Remarks:
 1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

5. 20 DB BANDWIDTH TEST

5.1. Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum Analyzer	Agilent	E4446A	US44300459	May.08,10	1 Year

5.2. Limit

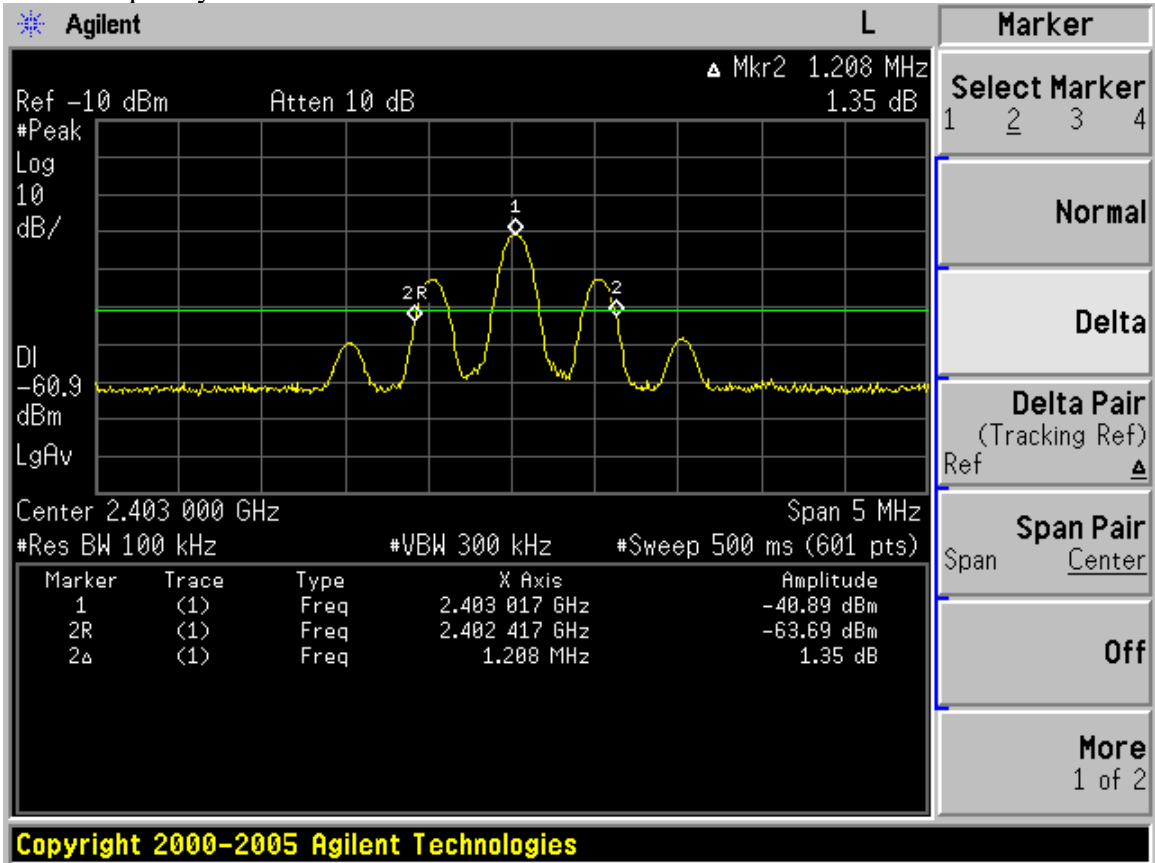
Intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§ 15.217 through 15.257 and in Subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated.

5.3. Test Results

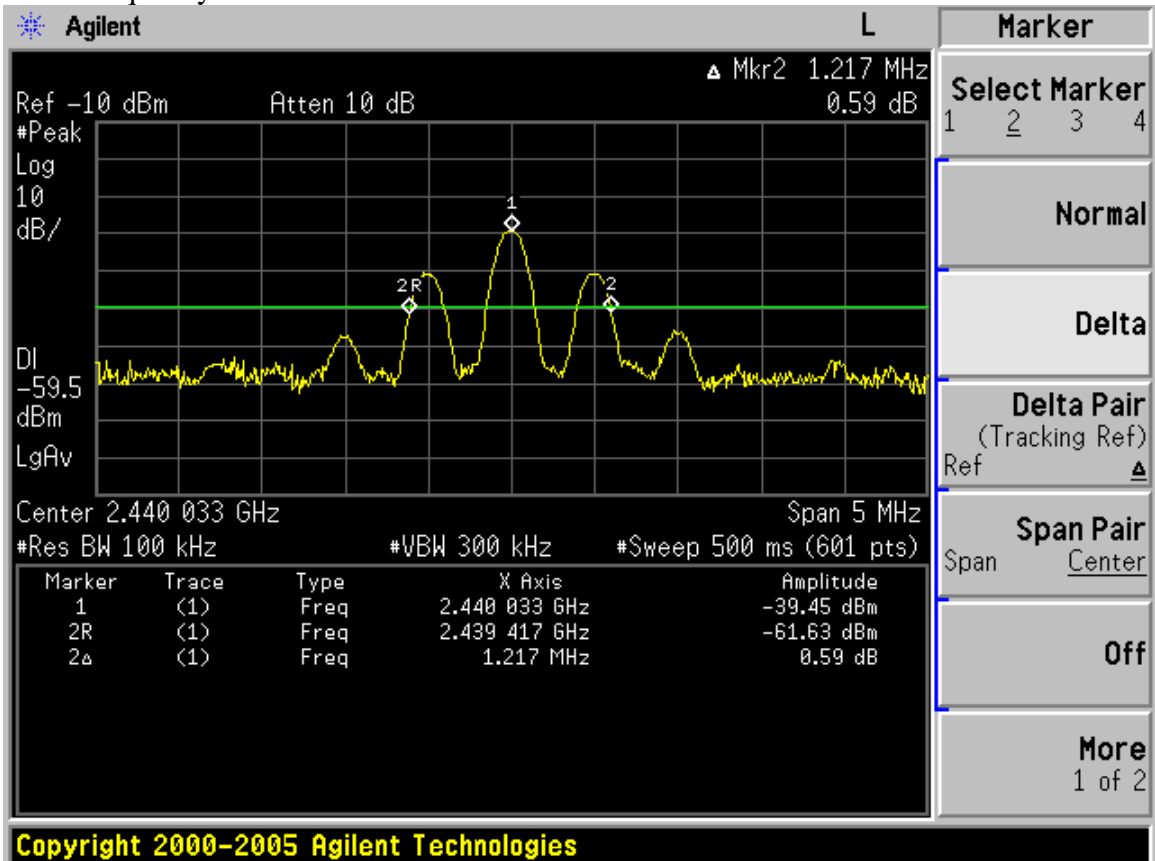
EUT: Nano Receiver		
M/N: MRN		
Test date:2011-03-12	Pressure:100.8 kpa	Humidity:37 %
Tested by: TaTa Chen	Test site: RF site	Temperature : 19.1 °C

Frequency	20% bandwidth (MHz)	Limit (KHz)
2403	1.208	N/A
2440	1.217	N/A
2480	1.233	N/A
Conclusion : PASS		

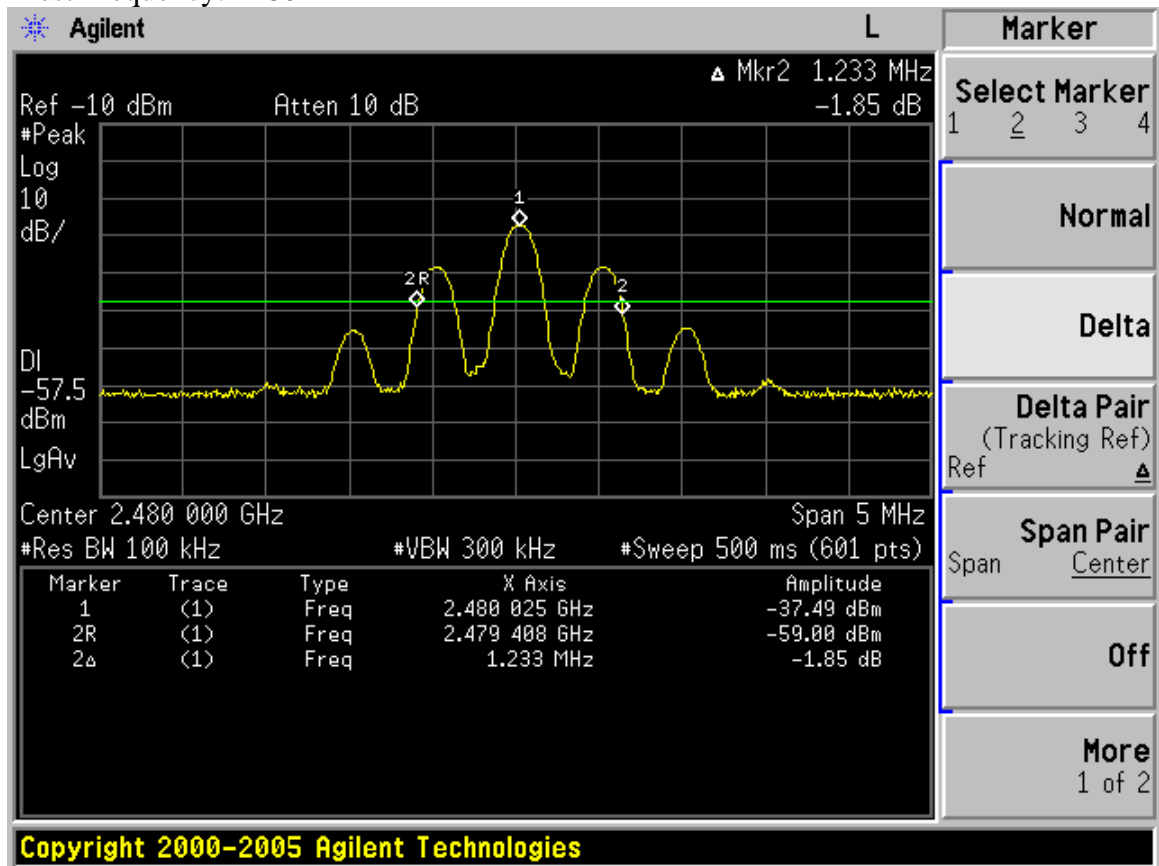
Test Frequency: 2403MHz



Test Frequency: 2440MHz



Test Frequency: 2480MHz



6. BAND EDGE COMPLIANCE TEST

6.1. Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum Analyzer	Agilent	E4446A	US44300459	May.08,10	1 Year
2.	Horn Antenna	EMCO	3115	9607-4877	Nov.25, 09	1.5 Year
3.	Amplifier	Agilent	8449B	3008A02495	May.08, 10	1 Year
4.	RF Cable	Hubersuhner	SUCOFLEX102	28620/2	May.08,10	1 Year
5.	RF Cable	Hubersuhner	SUCOFLEX102	28618/2	May.08,10	1 Year
6.	RF Cable	Hubersuhner	SUCOFLEX102	28610/2	May.08,10	1 Year

6.2. Limit

All the lower and upper band-edges emissions appearing within 2310MHz to 2390MHz and 2483.5MHz to 2500MHz restricted frequency bands shall not exceed the limits shown in 15.209, all the other emissions outside operation frequency band 2400MHz to 2483.5MHz shall be at least 20dB below the fundamental emissions, or comply with 15.209 limits.

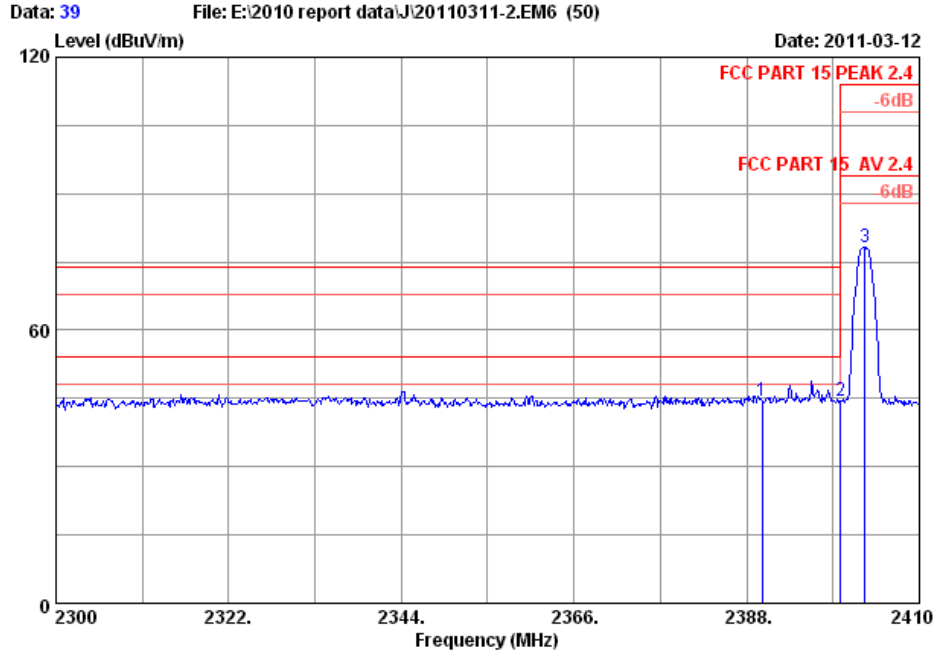
6.3. Test Produce

1. The EUT is placed on a turntable, which is 0.8m above the ground plane and worked at highest radiated power.
2. The turntable was rotated for 360 degrees to determine the position of maximum emission level.
3. EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emission.
4. Set the spectrum analyzer in the following setting in order to capture the lower and upperband-edges of the emission:
 - (a) PEAK: RBW=1MHz ;VBW=3MHz, PK detector, Sweep=AUTO
 - (b) Average: RBW=1MHz ;VBW=10Hz, PK detector, Sweep=AUTO

6.4. Test Results

Pass (The testing data was attached in the next pages.)

Note: If the PK measured levels comply with average limit, then the average level were deemed to comply with average limit.

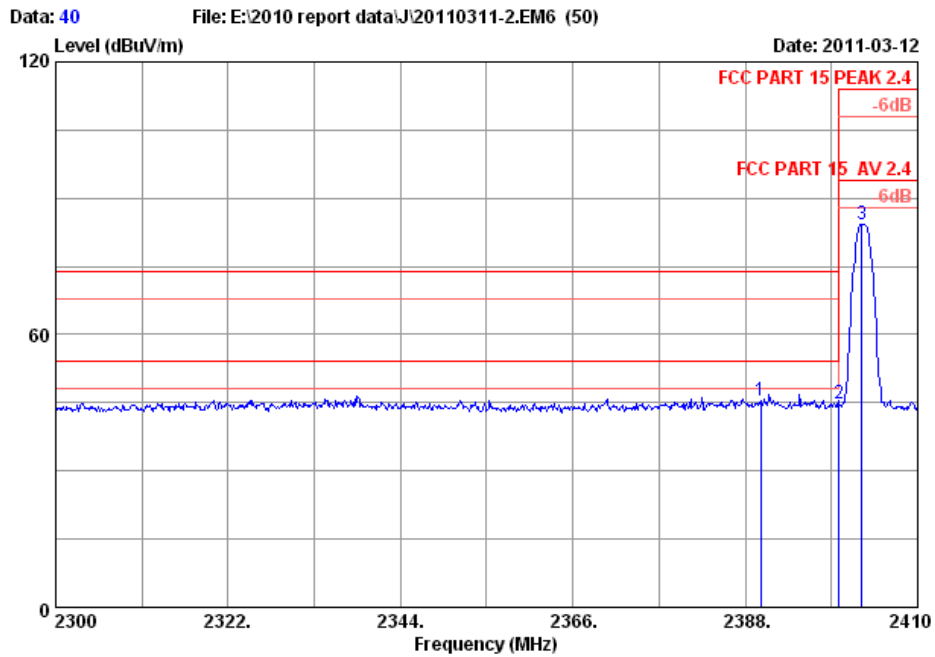


Site no. : 3# Chamber Data no. : 39
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15 PEAK 2.4
 Env. / Ins. : 23°C/54% Engineer : TaTa Chen
 EUT : Nano Receiver
 Power : DC 5V
 Test mode : Tx CH Low 2403MHz
 M/N :

	Ant. Freq. (MHz)	Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBUV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Remark
1	2390.000	29.44	7.39	36.62	44.08	44.29	74.00	29.71	Peak
2	2400.000	29.44	7.43	36.62	44.06	44.31	74.00	29.69	Peak
3	2403.070	29.45	7.43	36.62	77.90	78.16	114.00	35.84	Peak

Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

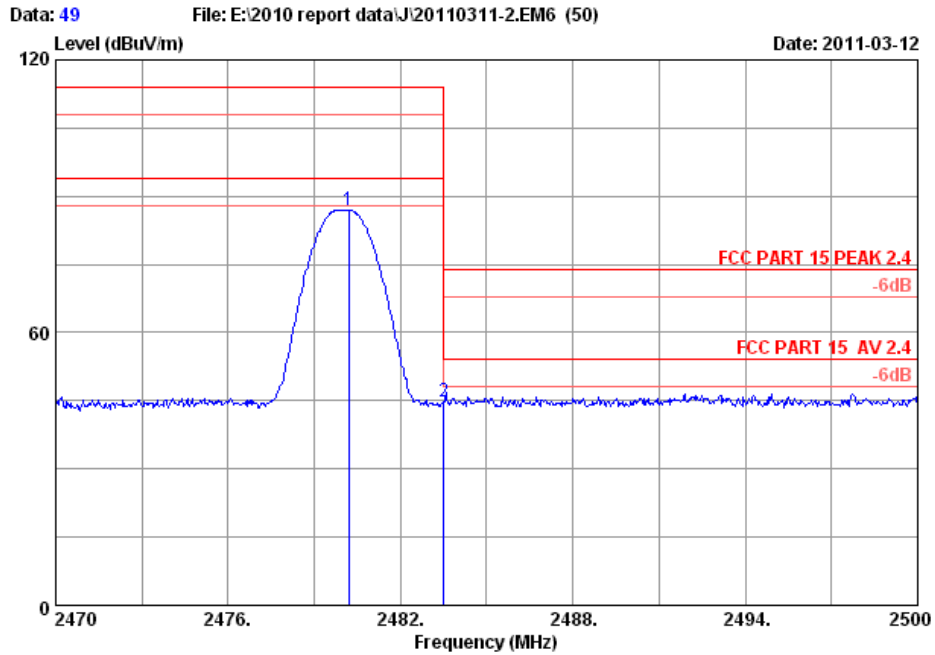


Site no. : 3# Chamber Data no. : 40
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15 PEAK 2.4
 Env. / Ins. : 23*C/54% Engineer : TaTa Chen
 EUT : Nano Receiver
 Power : DC 5V
 Test mode : Tx CH Low 2403MHz
 M/N :

	Ant. Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.000	29.44	7.39	36.62	45.16	45.37	74.00	28.63	Peak
2	2400.000	29.44	7.43	36.62	44.70	44.95	74.00	29.05	Peak
3	2402.850	29.45	7.43	36.62	84.07	84.33	114.00	29.67	Peak

Remarks:

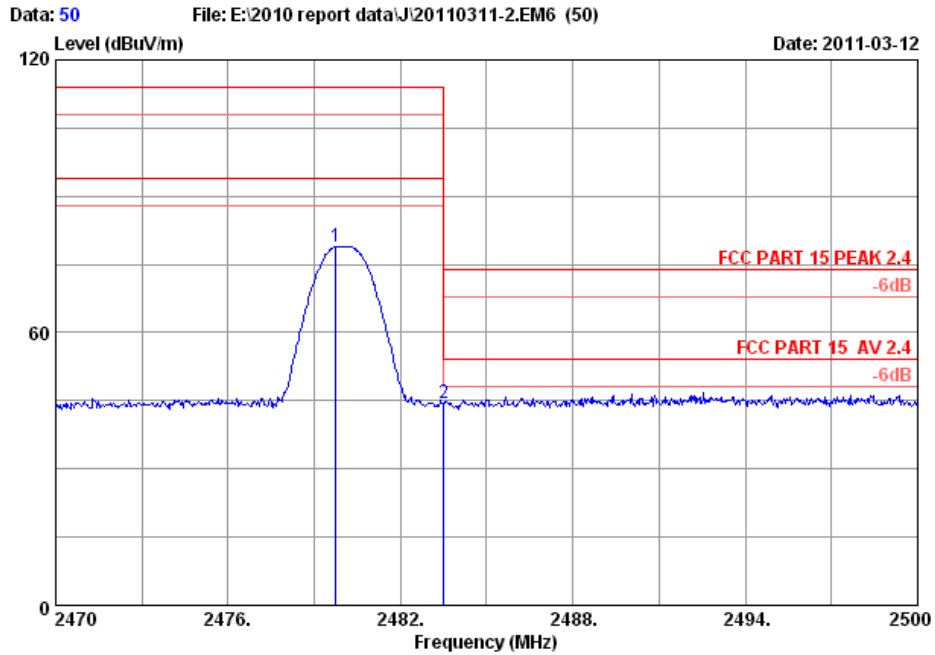
1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3# Chamber Data no. : 49
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15 PEAK 2.4
 Env. / Ins. : 23*C/54% Engineer : TaTa Chen
 EUT : Nano Receiver
 Power : DC 5V
 Test mode : Tx CH High 2480MHz
 M/N :

	Ant. Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Emission Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2480.200	29.49	7.58	36.60	86.48	86.95	114.00	27.05	Peak
2	2483.500	29.49	7.58	36.60	44.22	44.69	74.00	29.31	Peak

Remarks:
 1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3# Chamber Data no. : 50
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15 PEAK 2.4
 Env. / Ins. : 23*C/54% Engineer : TaTa Chen
 EUT : Nano Receiver
 Power : DC 5V
 Test mode : Tx CH High 2480MHz
 M/N :

	Ant. Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Emission Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2479.750	29.49	7.58	36.60	78.54	79.01	114.00	34.99	Peak
2	2483.500	29.49	7.58	36.60	43.87	44.34	74.00	29.66	Peak

Remarks:
 1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

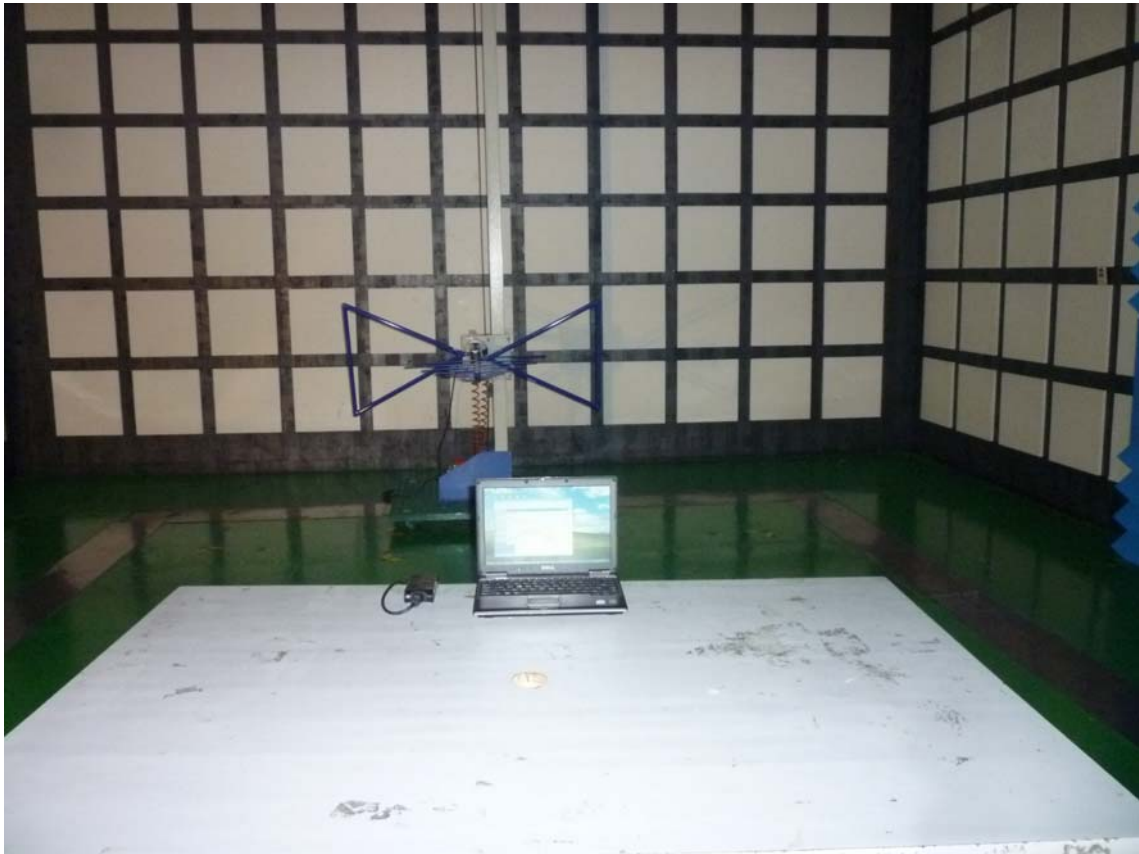
7. PHOTOGRAPH OF TEST

7.1.Photos of Conducted Emission Test (0.15-30MHz)



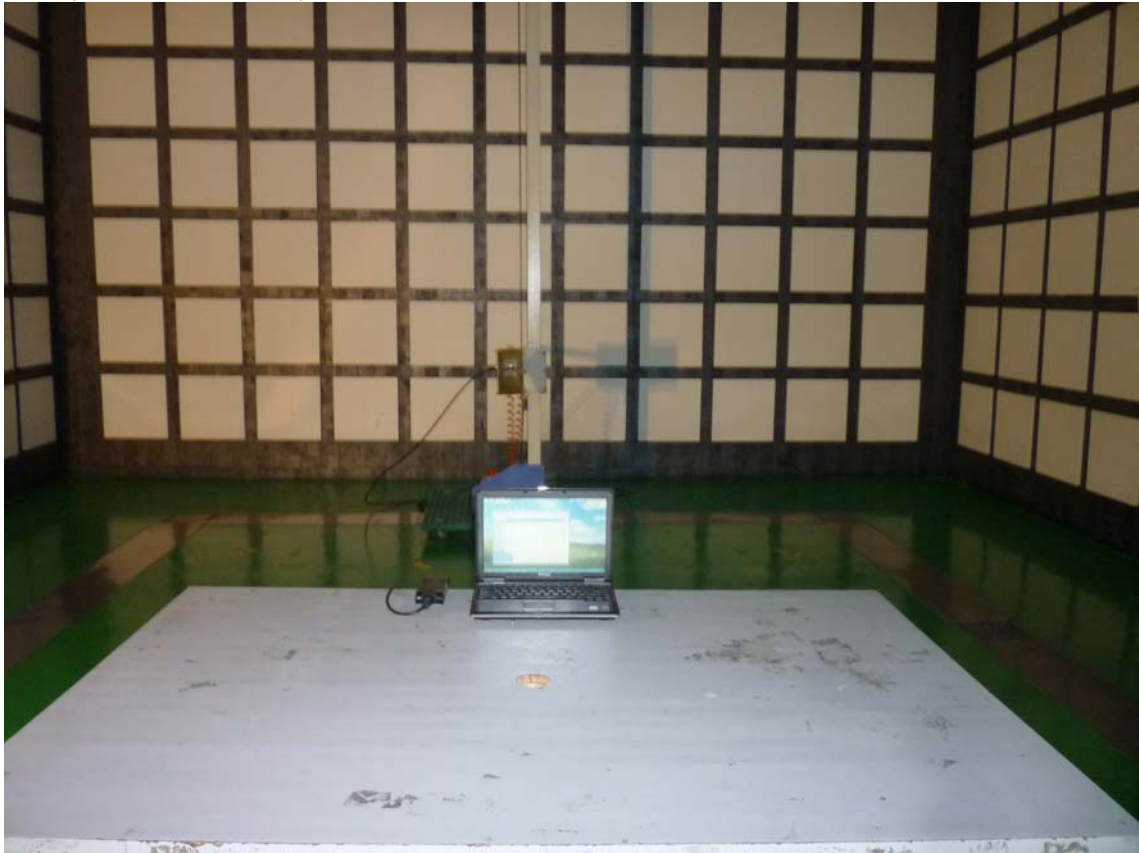


7.2.Photos of Radiated Emission Test (30-1000MHz)





(Above 1000MHz)





8. PHOTOGRAPH OF EUT

Figure 1
General Appearance of the EUT

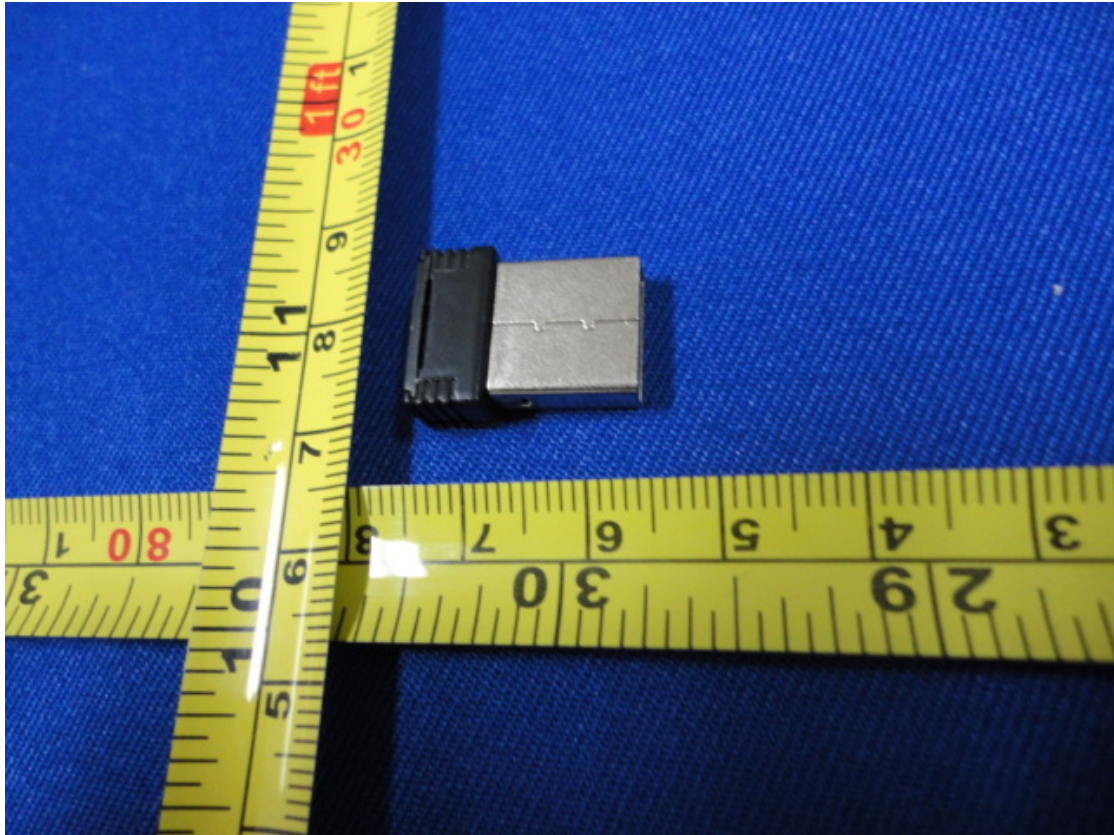


Figure 2
General Appearance of the EUT

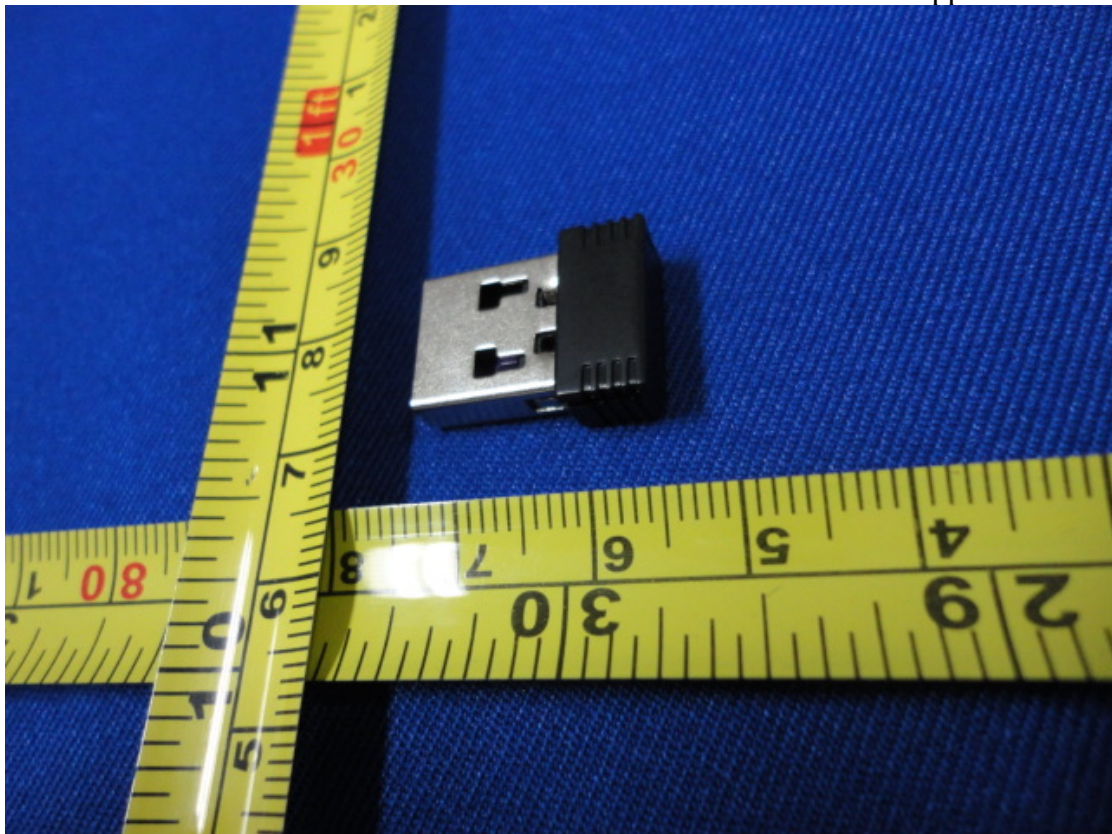


Figure 3
Component Side of the PCB

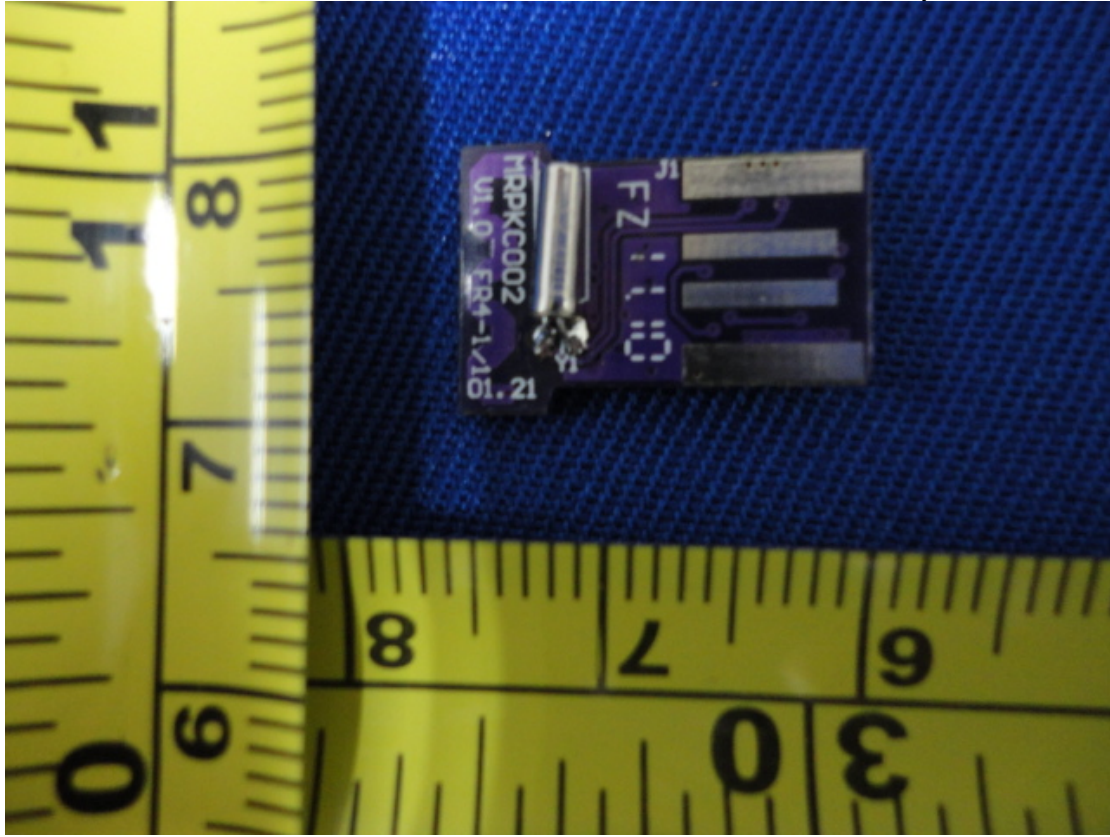


Figure 4
Component Side of the PCB

