




FCC/IC Test Report

FCC EVALUATION REPORT FOR VERIFICATION	
Project Reference No.	161388
Product	Baby Monitor
Brand Name	N/A
Model	02720ATX
Alternate Model	N/A
Tested according to	FCC Rules and Regulations Part 15 Subpart C 2008,15.249, RSS-210 ISSUE 8, ANSI C63.4-2009

Tested in period	2010.9.9-2010.12.24	
Issued date	2010.12.24	
Name and address of the Test House	 Nemko Shanghai Ltd. 9A No. 528 Ruiqing Road, PuDong New Area, Shanghai, China P.C. Phone : +86 21 5072 0988 Fax : +86 21 5072 0950	
Tested by	<i>Zone Peng</i>	
	Zone Peng	2010-12-24 date
Verified by	<i>Daria Liu</i>	
	Daria Liu	2010-12-24 date

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1. Client Information

1.1 Applicant

Company Name:	Summer Infant, Inc.
Company Address:	582 Great Road North Smithfield, RI 02896 USA

1.2 Manufacturer

Company Name:	Foshan Shunde Alford Electronics Co. Ltd.
Company Address:	Xinjiao Industrial Park, Daliang, Shunde, Foshan City, Guangdong Province, China

1.3 Scope

- Measurement and determination of electromagnetic emissions (EME) of radio frequency devices including intentional and/or unintentional radiators for compliance with the technical rules and regulations of the Federal Communications Commission under FCC part 15.



2. Equipment under Test (EUT)

2.1 Identification of EUT

Category:	Baby monitor
Model Name:	02720ATX
Alternate model:	N/A
Brand name:	N/A
Technical data (Rating, etc.):	AC input : 120VAC 60Hz HON-KWANG Model:D9300CEC
AC to DC adapter:	Input : 120VAC 60Hz Output : 9VDC 300mA

2.2 Detail spec

Operation Frequency : 910-921MHz

No RX ,only TX

CHA:910MHz

CHB:921MHz

Channel Number : 2

Type of Modulation :FM

Antenna Type : Integral PCB Antenna

Antenna Number : 1

The max Fundamental of CHA :93dB μ V/m

The max Fundamental of CHB :93.65dB μ V/m

Remark: The max values are lower than 50m V/m (93.9794 dB μ V/m)

2.3 Additional Information Related to Testing

CHA:910MHz Continue transmitter

CHB:921MHz Continue transmitter

3. General Test Conditions

3.1 Location

These measurement tests were conducted at Shenzhen Timeway Technology Consulting Co., Ltd. East 5/Block 4, Anhua Industrial Zone, No.8, Tairan Rd. Chegongmiao, Futian District, Shenzhen, China—ELA 611

FCC-Registration No.: 899988

IC- Registration No.: IC5205A-01

Note: all test are witnessed by NEMKO engineer

3.2 Operating Environment

All tests and measurements were performed in a shielded enclosure or a controlled environment suitable for the tests conducted. The climatic conditions in the test area are automatically controlled and recorded continuously.

Parameters	Recording during test	Accepted deviation
Ambient temperature	22-25°C	15 – 35 °C
Relative humidity	50-56%	30 - 60%
Atmospheric pressure	101.2 kPa -101.3kPa	86-106kPa

3.3 Operating During Test

Test mode :AC 120V 60Hz

TM1 : CHA continue transmitter

TM2 : CHB continue transmitter

Remark : Supply voltage varied between 85% and 115% of the nominal rated supply voltage the worse case is reported

3.4 Test Equipment

The test equipments used in testing are calibrated on a regular basis. For most of the testing equipments accredited calibration is conducted once a year. For certain equipment the calibration interval is longer. Between the calibrations all test equipment are controlled and verified on a regular basis. The test equipments used are defined in each test section of this report.

4. Measurement Uncertainty

The Measurement Uncertainties stated were calculated in accordance with the requirements of NIST Technical Note 1297 with the confidence level of 95 %.

No.	Item	Uncertainty	Remark
1	Conducted Emission Test	3.6dB	
2	Radiated Emission Test	4.7dB	3m chamber

5. Radiated Electromagnetic Disturbances

5.1 Test Procedure

The EUT was placed on a non-metallic table, 80 cm above the ground plane inside a semi-anechoic chamber. An antenna was located 3m from the EUT on an adjustable mast.

The EUT were rotated 0 to 360 degree and the antenna height was varied between 1m and 4m in order to maximize the emission. Measurements in both horizontal and vertical polarities were made and the data was recorded. The test result are reported as below.

For below 1GHz

RBW=120 kHz; VBW=300KHz. The frequency range from 30MHz to 1000MHz is checked and use QP detector .

For above 1GHz. The frequency range from 1GHz to 10GHz is checked.

RBW=1MHz ; VBW=1MHz, PK detector for peak emissions measurement above 1GHz

RBW=1MHz, VBW=10Hz ,PK detector for AV emission measurement above 1GHz, or AV value can be calculated by PK value – duty cycle factor ; and the duty cycle factor = 20log(1/dutycycle).

If PK value is lower than AV limit ,then AV value is deemed to comply with AV limit too.

5.2 Measurement Equipment

	Equipment	Last Calibration	Type	Serial No.	Manufacturer
<input checked="" type="checkbox"/>	Spectrum Analyzer	2010-5-14	FSEM	848597、001	RS
<input checked="" type="checkbox"/>	Ultra Broadband ANT	2010-5-14	VULB9163	9163/340	Schwarebeck
<input checked="" type="checkbox"/>	Pre-amplifier	2010-5-14	8447D	2727A05017	HP
<input checked="" type="checkbox"/>	Pre-amplifier	2010-5-14	EM30265	2727A05017	EM
<input checked="" type="checkbox"/>	Signal Generator	2010-5-14	8657B	3208U02589	HP
<input checked="" type="checkbox"/>	Horn Antenna	2010-5-14	BBHA9120D	1201	Schwarebeck

5.3 Test Result

Connect mode	Antenna Polarity	Remark	Test Data	Test Result
TM1	Horizontal	30-1000MHz	Diagram 001	Pass
	Vertical	30-1000MHz	Diagram 002	Pass
TM2	Horizontal	30-1000MHz	Diagram 003	Pass
	Vertical	30-1000MHz	Diagram 004	Pass
TM1	Horizontal	1GHz-18GHz	Diagram 005	Pass
	Vertical	1GHz-18GHz	Diagram 006	Pass
TM2	Horizontal	1GHz-18GHz	Diagram 007	Pass
	Vertical	1GHz-18GHz	Diagram 008	Pass

Remark: Worse case is reported .

*) Because PK value is more lower than AV limit , so AV value is deemed to comply with AV limit too without list the AV measurement value .

NOTES:

1. All modes were measured and the worst case emission was reported.
2. H =Horizontal V=Vertical
3. Emission = Reading +Antenna Factor + Cable Loss –Amp Factor(if exist)
4. Emission level dB μ V = 20 log Emission level μ V/m
5. The lower limit shall apply at the transition frequencies
6. **15.249 (a) Except as provided in paragraph (b) of this section, the field strength of emissions from intentional radiators operated within these frequency bands shall comply with the following:**

The limit of 15.249 (a)

Fundamental Frequency	Field Strength of Fundamental (millivolts/meter) (dB μ V/m)		Field Strength of Harmonics (microvolts/meter) (dB μ V/m)	
902 - 928 MHz	50	93.98	500	53.98
2400 - 2483.5 MHz	50	93.98	500	53.98
5725 - 5875 MHz	50	93.98	500	53.98
24.0 - 24.25 GHz	250	107.96	2500	67.96

- 7: **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.**

Remark :

The limit of 15.209(a) of 3 meter distance is

Frequency MHz	Distance m	Field strength		Distance m	Field strength dB μ V/m(QP)
		μ V/m	dB μ V/m(QP)		
30-88	3	100	40.0	10	30.0
88-216	3	150	43.5	10	33.5
216-960	3	200	46.0	10	36.0
960-1000	3	500	54.0	10	44.0
Above 1000	3	74.0 dB μ V/m (PK) 54.0 dB μ V/m (AV)		/	/

15.205 Restricted bands of operation:

MHz	MHz	MHz	GHz
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
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)



RSS-210 2.7 table 1 Restricted bands of operation:

MHz
0.090-0.110
2.1735-2.1905
3.020-3.026
4.125-4.128
4.17725-4.17775
4.20725-4.20775
5.677-5.683
6.215-6.218
6.26775-6.26825
6.31175-6.31225
8.291-8.294
8.362-8.366
8.37625-8.38675
8.41425-8.41475
12.29-12.293
12.51975-12.52025
12.57675-12.57725
13.36-13.41
16.42-16.423
16.69475-16.69525
16.80425-16.80475
25.5-25.67
37.5-38.25

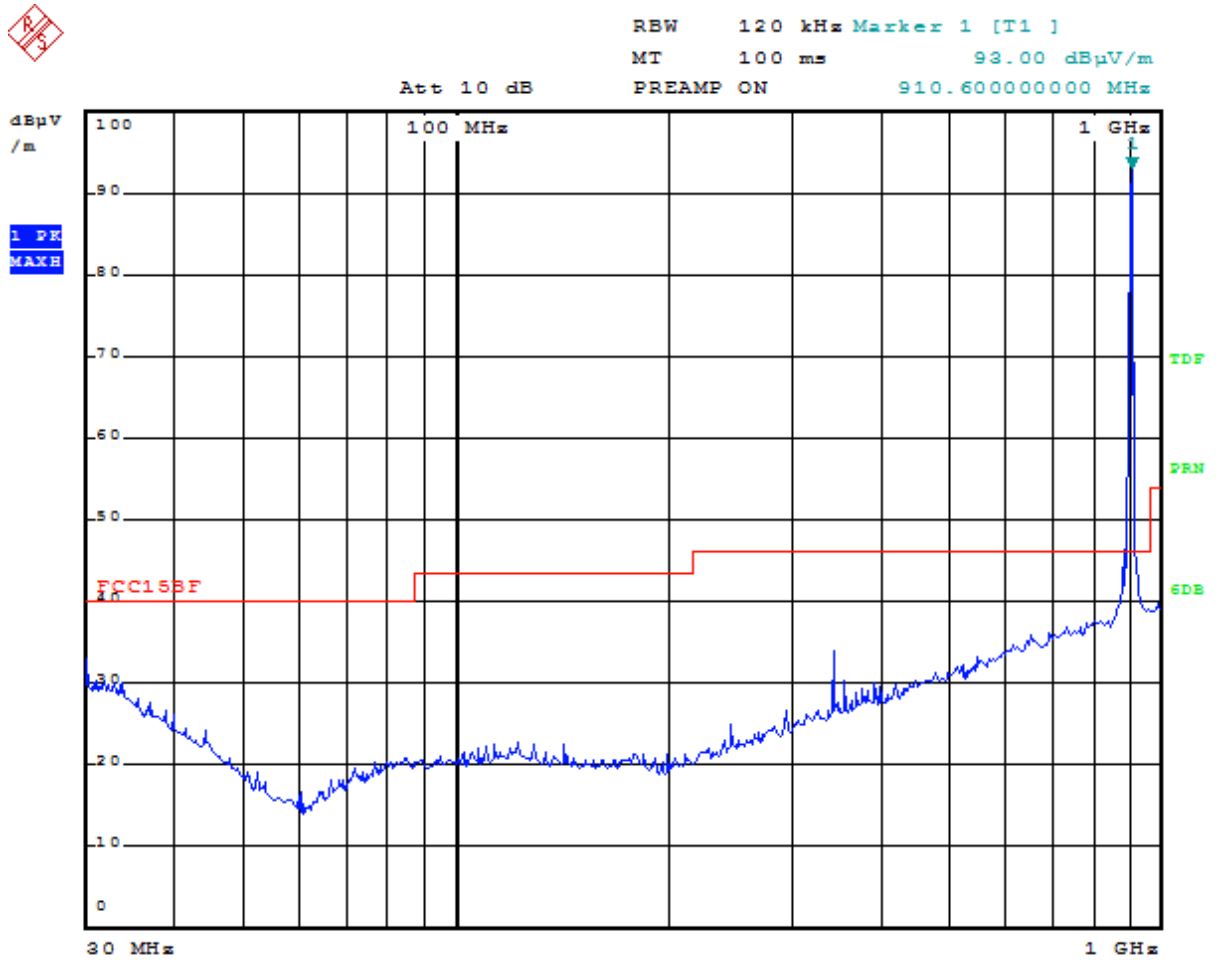
MHz
73-74.6
74.8-75.2
108-138
156.52475-156.52525
156.7-156.9
240-285
322-335.4
399.9-410
608-614
960-1427
1435-1626.5
1645.5-1646.5
1660-1710
1718.8-1722.2
2200-2300
2310-2390
2655-2900
3260-3267
3332-3339
3345.8-3358
3500-4400
4500-5150
5350-5460

MHz
7250-7750
8025-8500

GHz
9.0-9.2
9.3-9.5
10.6-12.7
13.25-13.4
14.47-14.5
15.35-16.2
17.7-21.4
22.01-23.12
23.6-24.0
31.2-31.8
36.43-36.5
Above 38.6

Note: Certain frequency bands listed in Table 1 and above 38.6 GHz are designated for low-power licence-exempt applications. These frequency bands and the requirements that apply to the devices are set out in this Standard as well as in RSS-310.

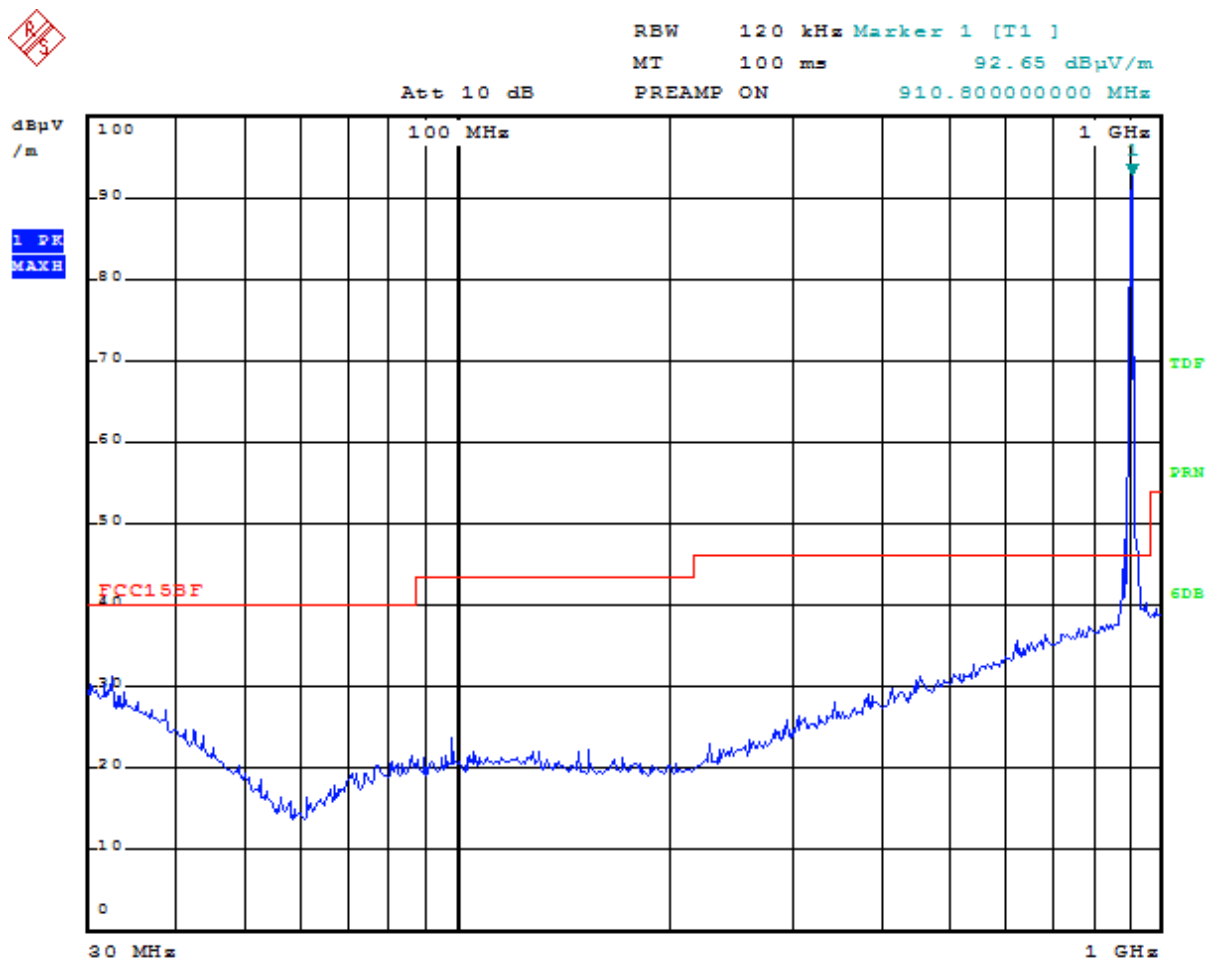
5.3.1 Diagram 001
Fundamental:



Others:

Frequency(MHz)	Measurement(dBµV/m)	Polarity	Limit (dBµV/m)
30.42	33.52	H	40
249.26	26.21	H	46
351.62	34.28	H	46

5.3.2 Diagram 002
Fundamental:

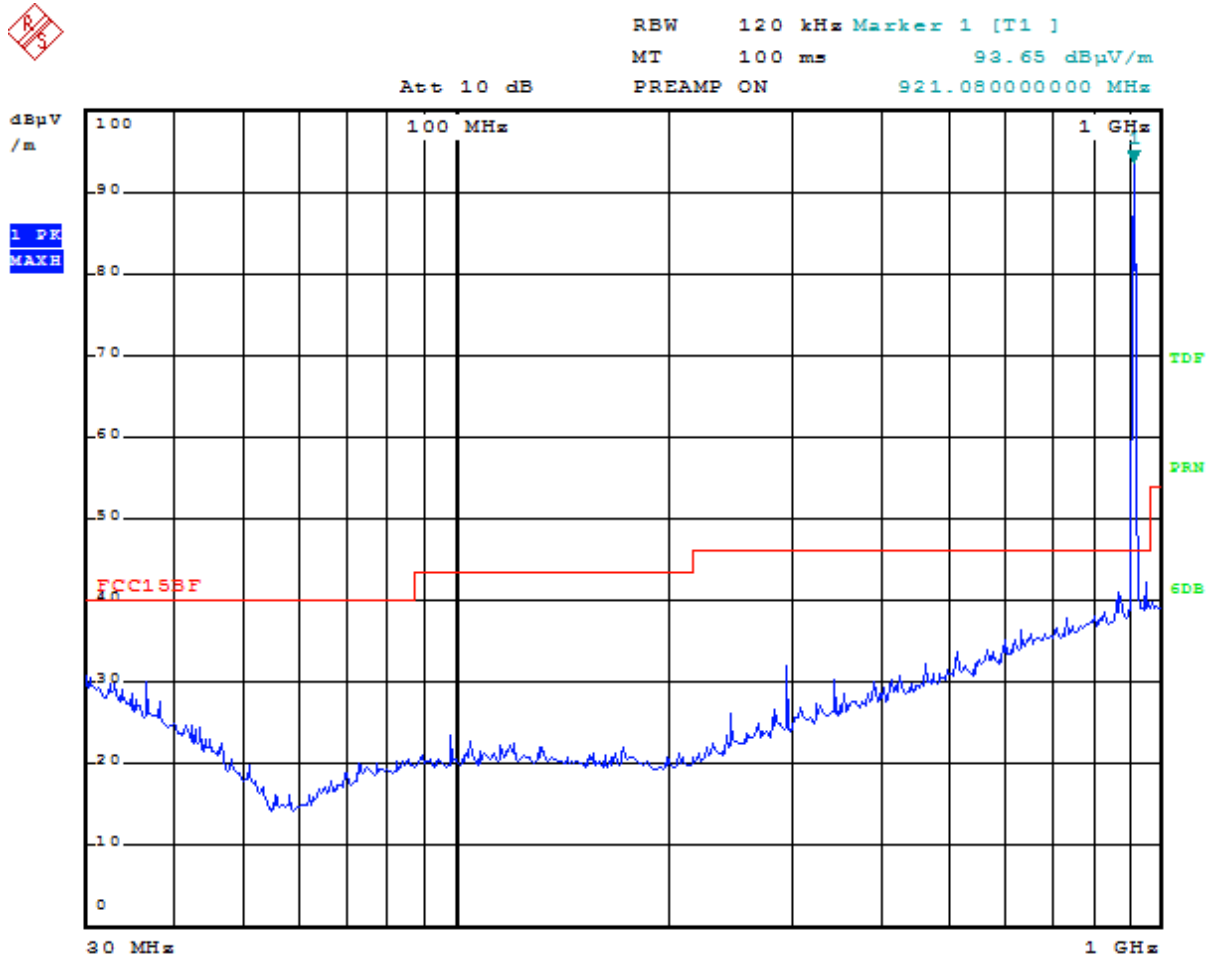


Others:

Frequency(MHz)	Measurement(dBµV/m)	Polarity	Limit (dBµV/m)
			15.209(a)
33.27	32.48	V	40
98.28	24.12	V	43.5
174.81	22.81	V	43.5

5.3.3 Diagram 003

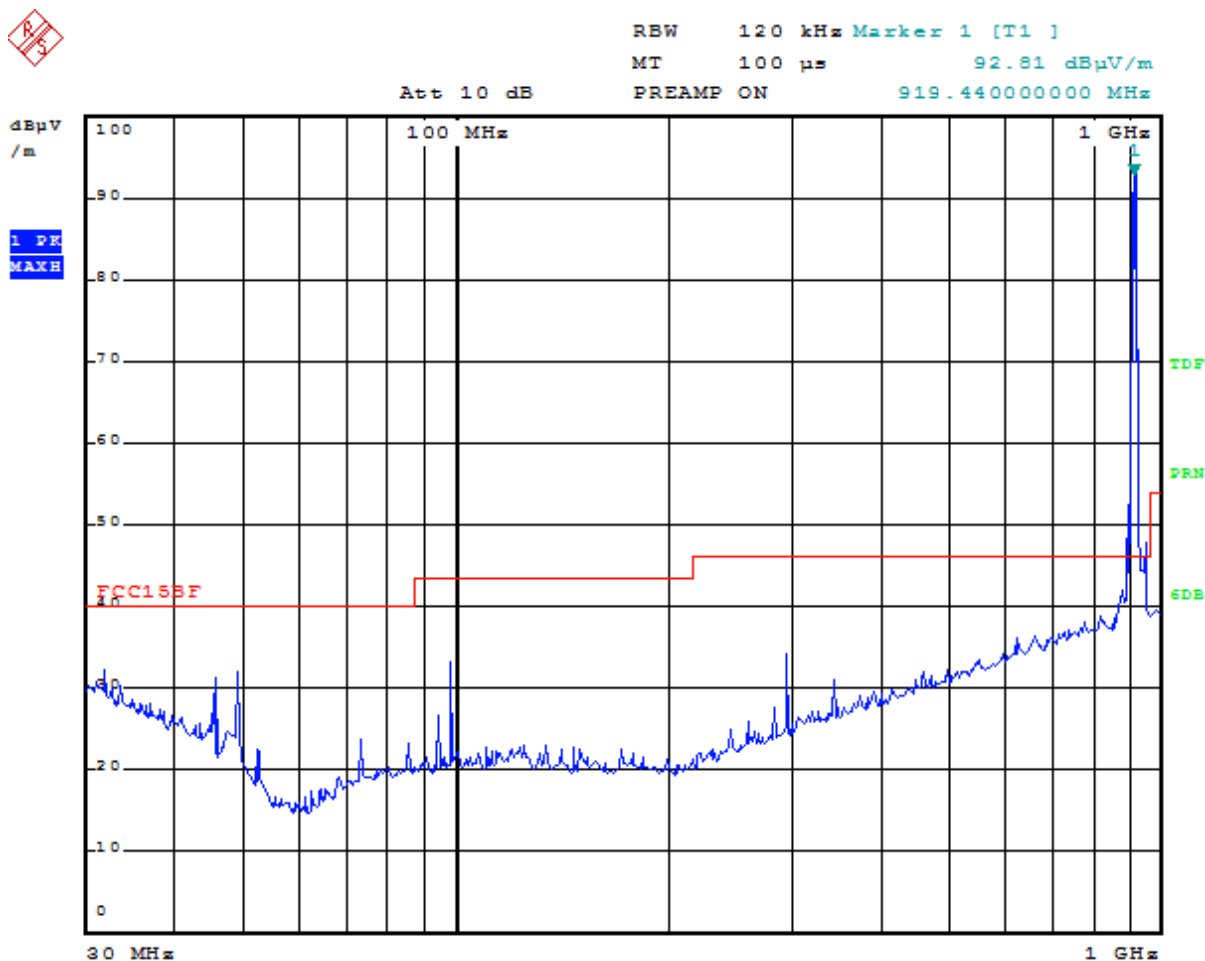
Fundamental:



Others:

Frequency(MHz)	Measurement(dBµV/m)	Polarity	Limit (dBµV/m) 15.209(a)
37.45	30.12	H	40
98.23	24.51	H	43.5
247.58	27.27	H	46
298.48	32.58	H	46
351.67	31.02	H	46

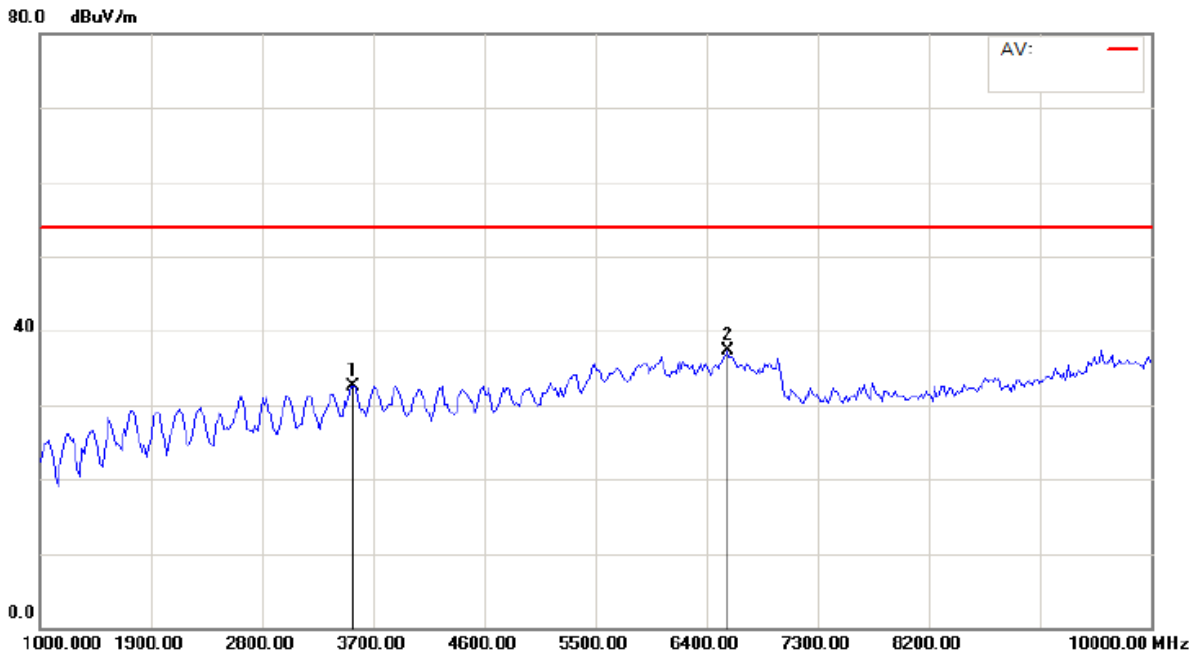
5.3.4 Diagram 004
Fundamental:



Others:

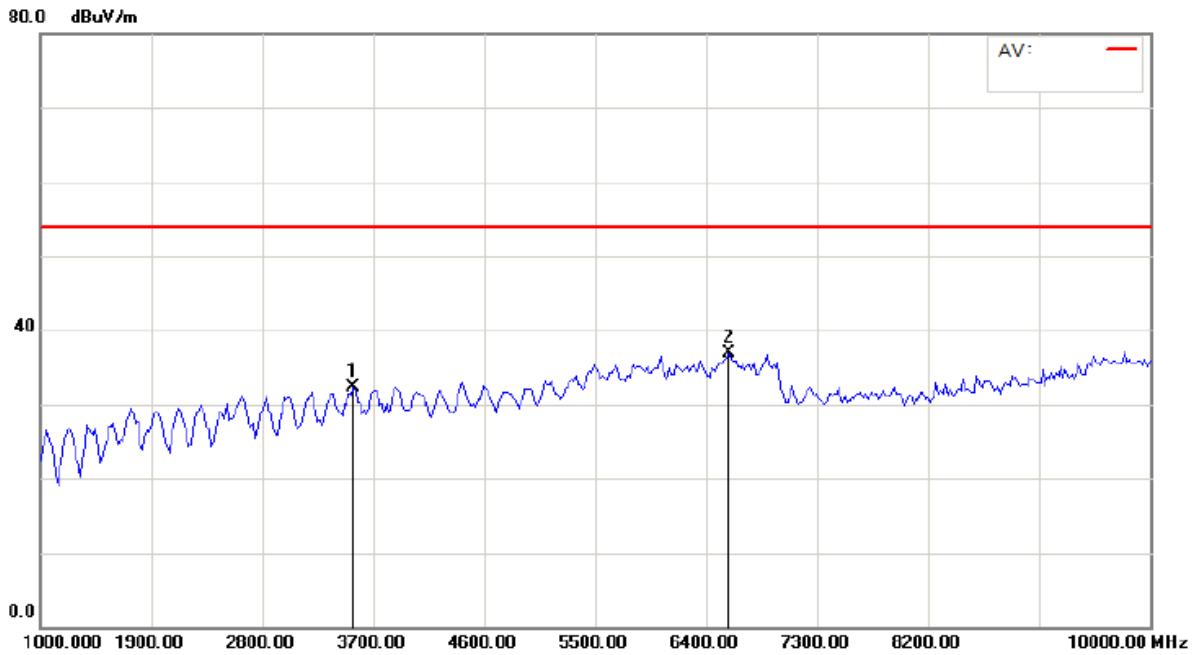
Frequency(MHz)	Measurement(dBµV/m)	Polarity	Limit (dBµV/m) 15.209(a)
32.52	33.14	V	40
47.62	32.58	V	40
49.24	33.67	V	40
95.58	27.82	V	43.5
98.92	34.42	V	43.5
298.54	35.28	V	46

5.3.5 Diagram 005



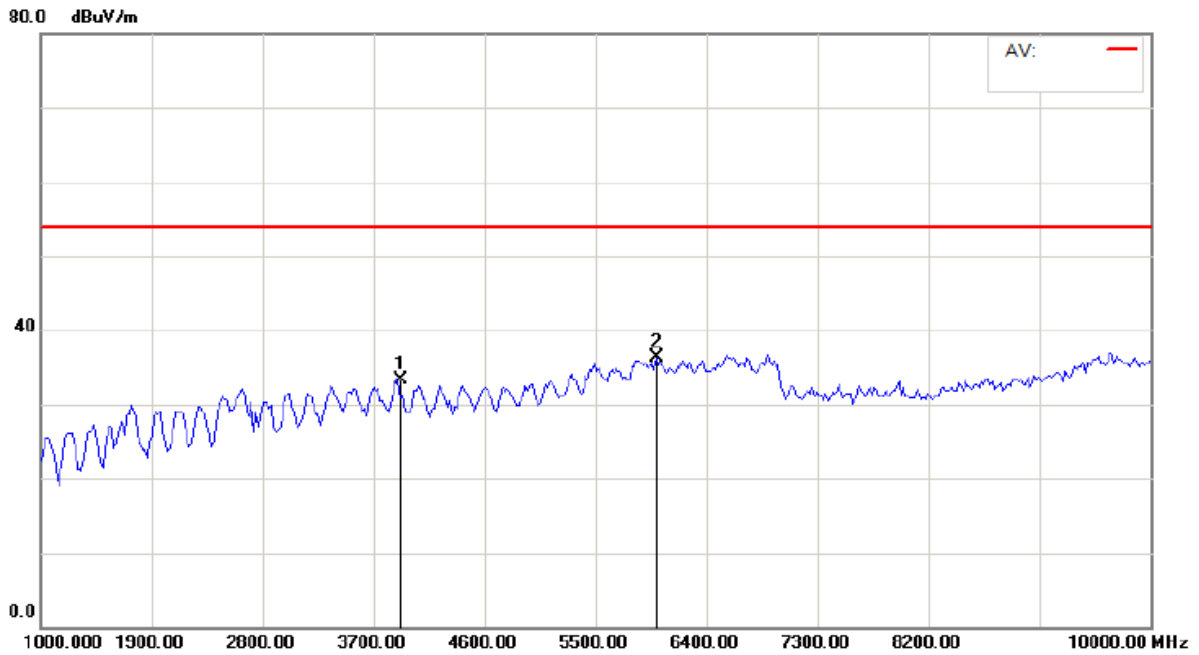
Frequency(MHz)	PK Measurement (dB μ V/m)	Polarity	Limit (dB μ V/m)
3543.086	32.51	H	74
6573.146	37.26	H	74

5.3.6 Diagram 006



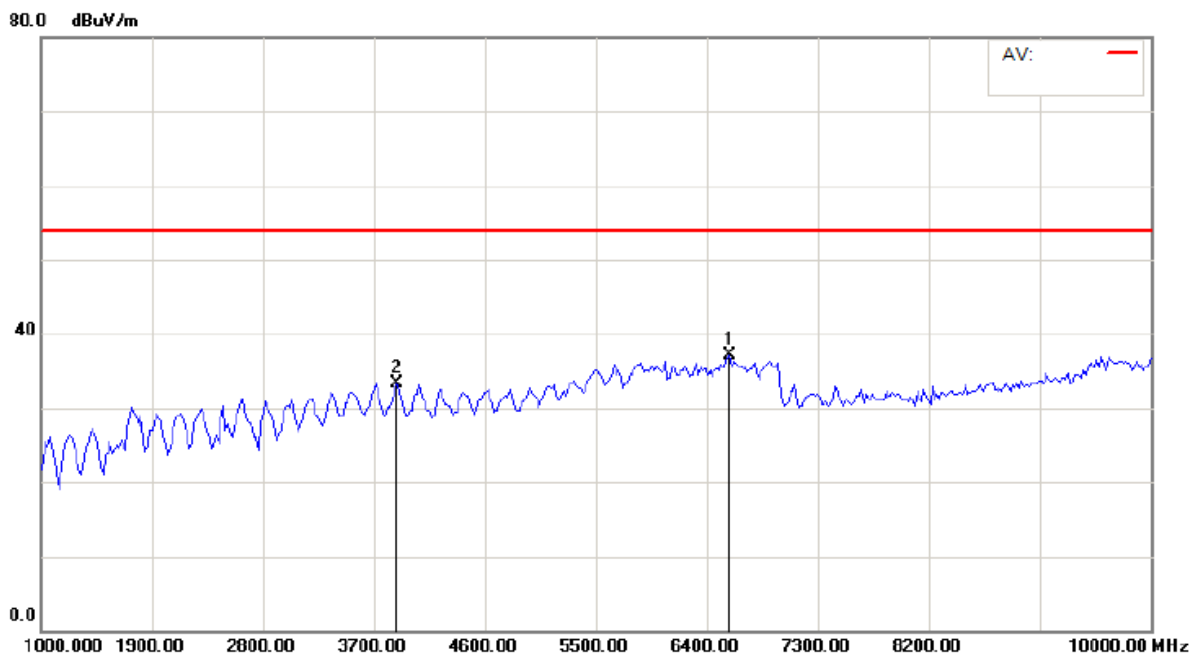
Frequency(MHz)	PK Measurement (dBuV/m)	Polarity	Limit (dBuV/m)
3543.086	32.31	V	74
6591.182	36.85	V	74

5.3.7 Diagram 007



Frequency(MHz)	PK Measurement (dB μ V/m)	Polarity	Limit (dB μ V/m) 15.209(a)
3903.808	33.24	H	74
5995.992	36.36	H	74

5.3.8 Diagram 008



Frequency(MHz)	PK Measurement (dBμV/m)	Polarity	Limit (dBμV/m) 15.209(a)
6591.182	37.15	V	74
3885.771	33.29	V	74



6. 20dB Bandwidth and 99% bandwidth Test

6.1 Test Procedure

For 20dB bandwidth:

The bandwidth is measured at an amplitude level reduced from the reference level by a specified ratio. The reference level is the level of the highest amplitude signal observed from the transmitter at either the fundamental frequency or the first-order modulation products in all typical modes of operation, including the unmodulated carrier, even if atypical. Once the reference level is established, the equipment is conditioned with typical modulating signals to produce the worst-case (i.e., the widest) bandwidth. Measure the bandwidth at -20 dB with respect to the reference level.

For 99% bandwidth:

When an occupied bandwidth value is not specified in the applicable RSS, the transmitted signal bandwidth to be reported is to be its 99% emission bandwidth, as calculated or measured.

The transmitter shall be operated at its maximum carrier power measured under normal test conditions. The span of the analyzer shall be set to capture all products of the modulation process, including the emission skirts. The resolution bandwidth shall be set to as close to 1% of the selected span as is possible without being below 1%. The video bandwidth shall be set to 3 times the resolution bandwidth. Video averaging is not permitted. Where practical, a sampling detector shall be used since a peak or, peak hold, may produce a wider bandwidth than actual.

The trace data points are recovered and are directly summed in linear terms. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5% of the total is reached and that frequency recorded. The process is repeated for the highest frequency data points. This frequency is recorded. The span between the two recorded frequencies is the occupied bandwidth.

6.2 Measurement Equipment

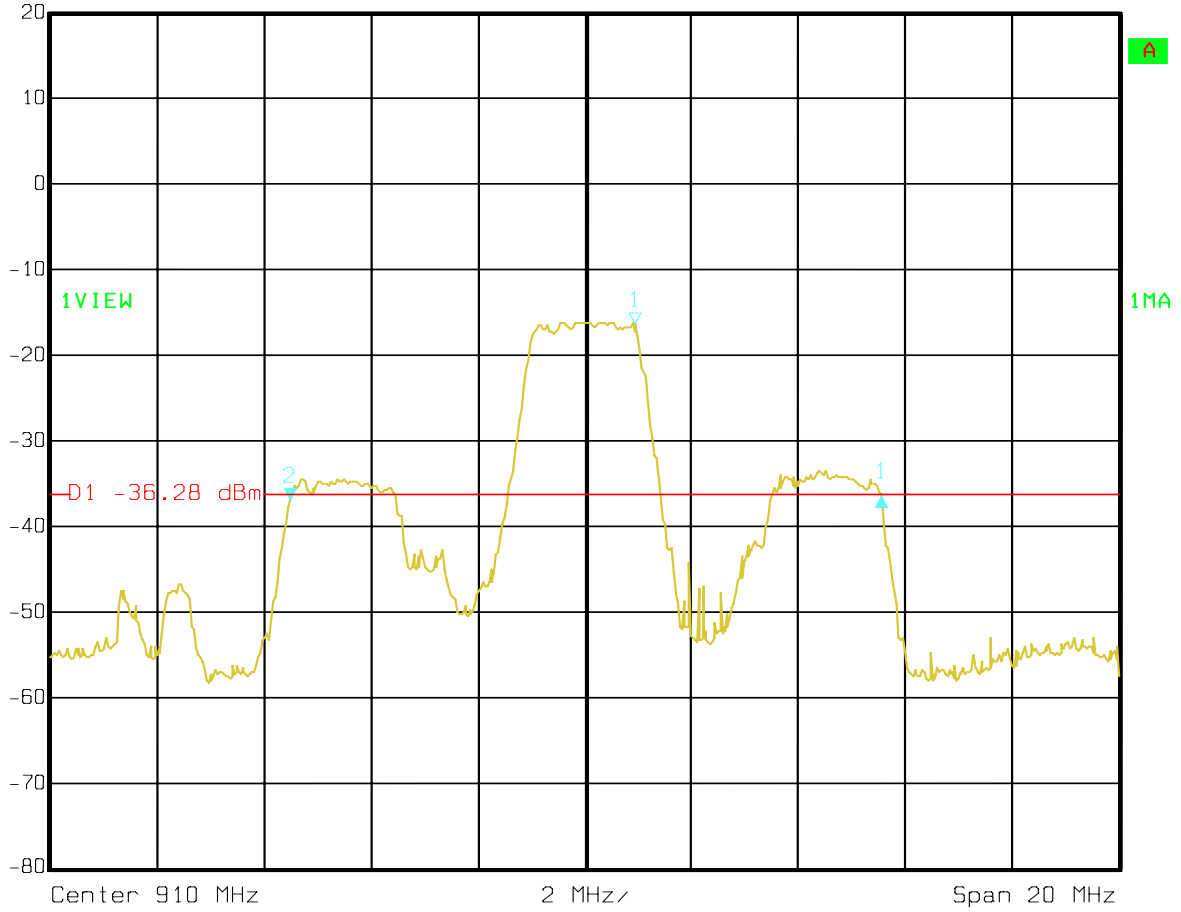
	Equipment	Last Calibration	Type	Serial No.	Manufacturer
<input checked="" type="checkbox"/>	Spectrum Analyzer	2010-5-14	FSEM	848597、001	RS

6.3 Test Result

TM	Diagram	20dB bandwidth MHz	99% bandwidth MHz
TM1	009	11.06	/
TM1	010	/	10.14
TM2	011	10.42	/
TM2	012	/	9.819

6.3.1 Diagram 009

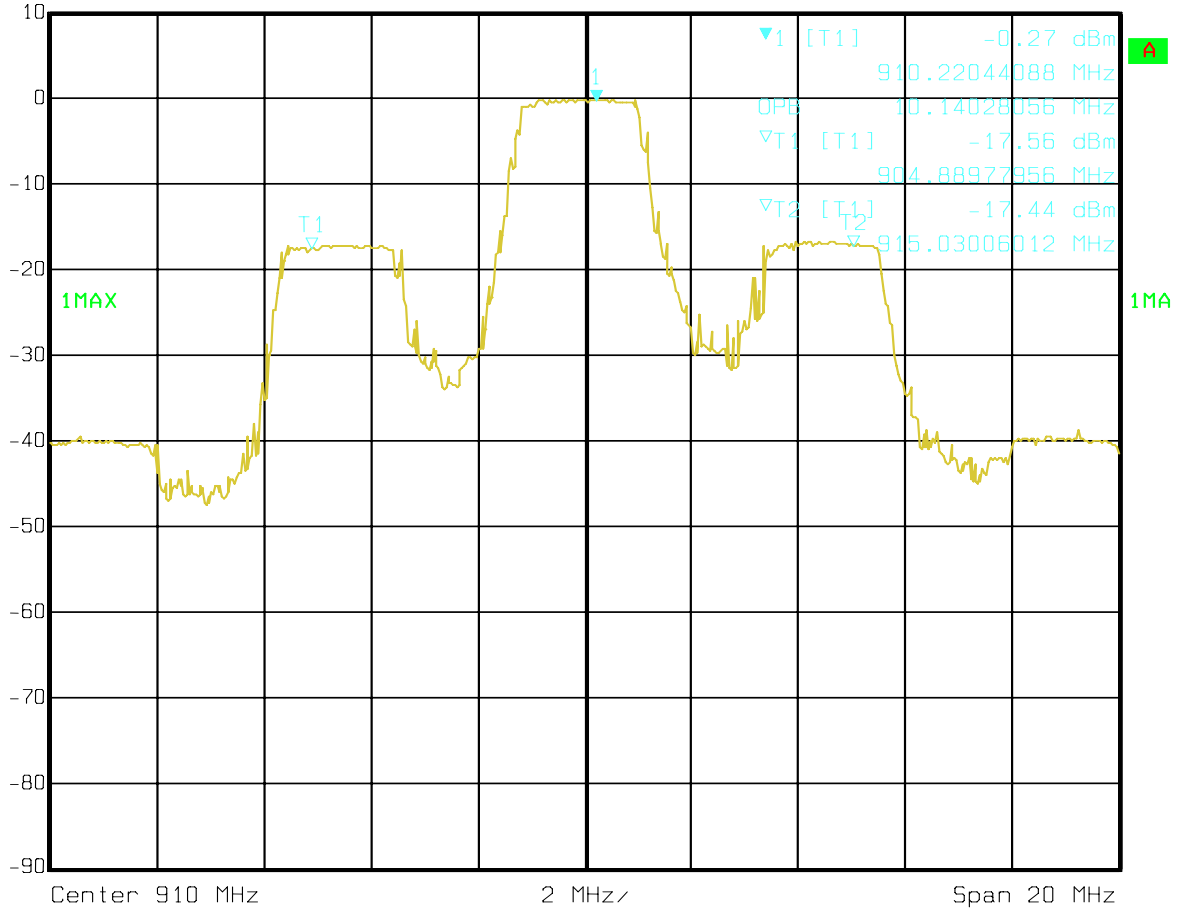
	Delta 1 [T1]	RBW	300 kHz	RF Att	30 dB
	Ref Lvl	0.53 dB	VBW	300 kHz	
	20 dBm	11.06212425 MHz	SWT	5 ms	Unit dBm



Date: 25.NOV.2010 09:56:18

6.3.2 Diagram 010

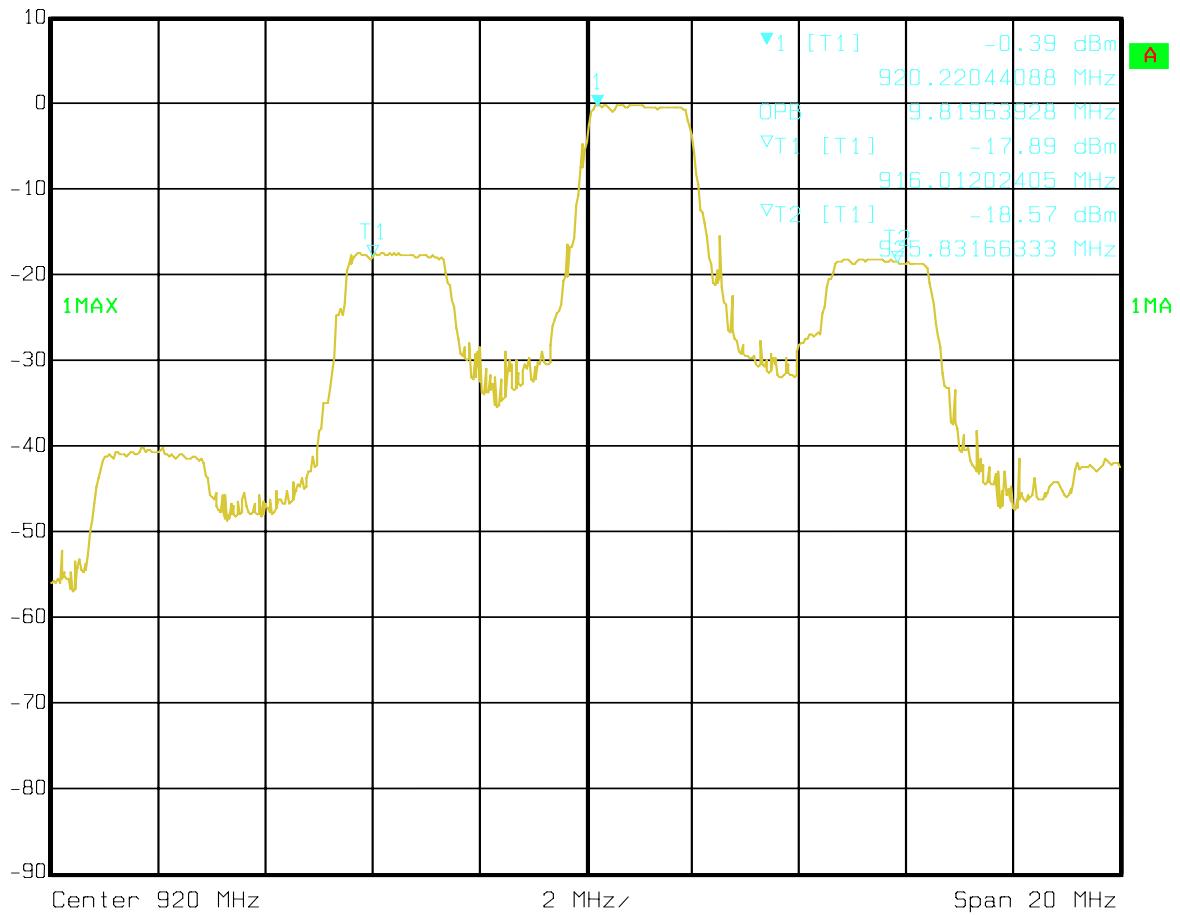
	Ref Lvl	Marker 1 [T1]	RBW	300 kHz	RF Att	20 dB
	10 dBm	-0.27 dBm	VBW	300 kHz		
		910.22044088 MHz	SWT	5 ms	Unit	dBm



Date: 28.NOV.2010 18:31:01

6.3.4 Diagram 012


 Marker 1 [T1] RBW 300 kHz RF Att 20 dB
 Ref Lvl -0.39 dBm VBW 300 kHz
 10 dBm 920.22044088 MHz SWT 5 ms Unit dBm



Date: 28.NOV.2010 18:52:29



7 POWER LINE CONDUCTED EMISSION TEST

7.1 Test Procedure

An intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table, as measured using a 50 μ H/50 Ω line impedance stabilization network (LISN). Compliance with the provisions of this paragraph shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminal. The lower limit applies at the boundary between the frequency ranges.

Section 15.207 Conducted limits.(a):

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.

7.2 Measurement Equipment

	Equipment	Last Calibration	Type	Serial No.	Manufacturer
<input checked="" type="checkbox"/>	EMI Receiver	2010.5.14	ESH3	860905/006	R & S
<input checked="" type="checkbox"/>	Spectrum Analyzer	2010.5.14	ESA-L1500A	US37451154	R & S
<input checked="" type="checkbox"/>	PULSE LIMITER	2010.5.14	ESH3-Z2	100281	R & S
<input checked="" type="checkbox"/>	LISN	2010.5.14	ESH3-Z5	100294	R & S

7.3 Test Result

The EUT was placed on a non-metallic table, 80cm above the ground plane. The other peripheral devices power cord connected to the power mains through another line impedance stabilization network. 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.

Preview measurements:

0.15 MHz to 30 MHz

Receiver settings: PK&AV detector

RBW:9 kHz

Final measurement:

0.15 MHz to 30 MHz

Receiver settings:QP&AV detector

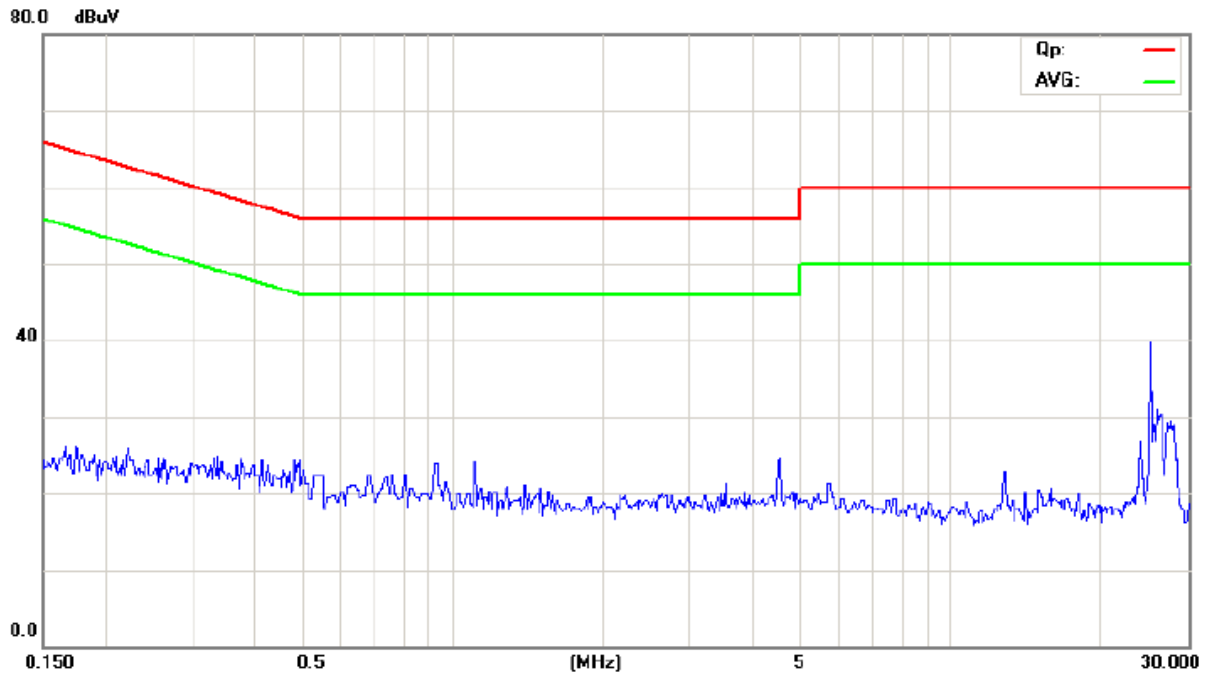
Test mode	Power Line	Test Data	Test Result
TX MODE	Line	Diagram 013	Pass
	Neutral	Diagram 014	Pass

Worse case is reported.

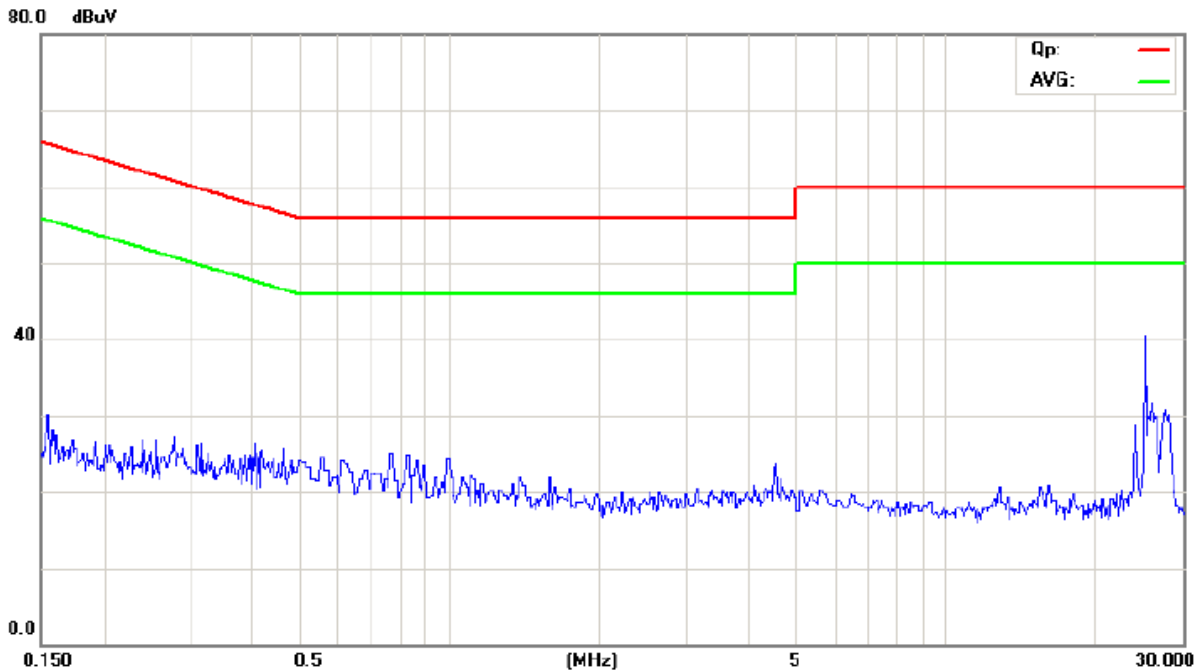
NOTES:

- Measurements using CISPR quasi-peak mode & average mode.
- All modes of operation were investigated and the worst -case emission are reported. See attached Plots.
- If PK value is lower than AV limit then no reading value listed in report and both QP and AV value are deemed to comply with their limit .**
If QP value is Lower than AV limit ,then AV value don't listed in report.

7.3.1 Diagram 013



7.3.2 Diagram 014





8. Band edge test

8.1 Test Procedure

The EUT was placed on a non-metallic table, 80 cm above the ground plane inside a semi-anechoic chamber. An antenna was located 3m from the EUT on an adjustable mast.

The EUT were rotated 0 to 360 degree and the antenna height was varied between 1m and 4m in order to maximize the emission. Measurements in both horizontal and vertical polarities were made and the data was recorded. The test result are reported as below.

For below 1GHz

RBW=120 kHz; VBW=300KHz. The frequency range from 30MHz to 1000MHz is checked and use QP detector .

For above 1GHz. The frequency range from 1GHz to 10GHz is checked.

RBW=1MHz ; VBW=1MHz, PK detector for peak emissions measurement above 1GHz

RBW=1MHz, VBW=10Hz ,PK detector for AV emission measurement above 1GHz, or AV value can be calculated by PK value – duty cycle factor ; and the duty cycle factor = $20\log(1/\text{duty cycle})$.

If PK value is lower than AV limit ,then AV value is deemed to comply with AV limit too.

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.

8.2 Measurement Equipment

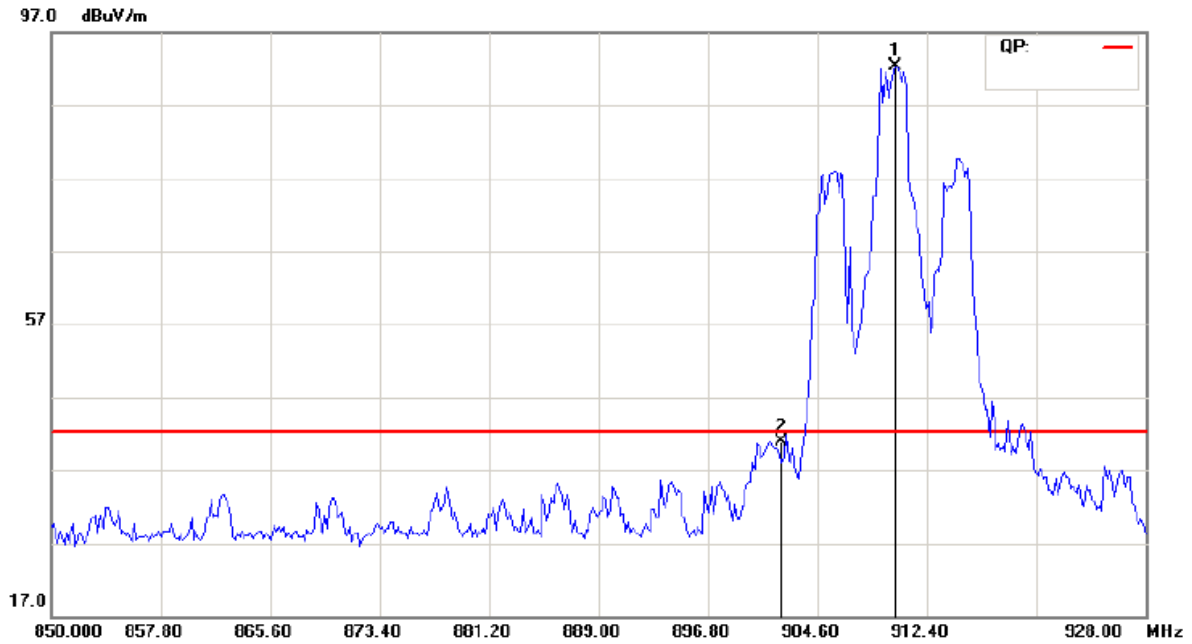
	Equipment	Last Calibration	Type	Serial No.	Manufacturer
<input checked="" type="checkbox"/>	Spectrum Analyzer	2010-5-14	FSEM	848597、001	RS
<input checked="" type="checkbox"/>	Ultra Broadband ANT	2010-5-14	VULB9163	9163/340	Schwarebeck
<input checked="" type="checkbox"/>	Pre-amplifier	2010-5-14	8447D	2727A05017	HP
<input checked="" type="checkbox"/>	Pre-amplifier	2010-5-14	EM30265	2727A05017	EM
<input checked="" type="checkbox"/>	Signal Generator	2010-5-14	8657B	3208U02589	HP
<input checked="" type="checkbox"/>	Horn Antenna	2010-5-14	BBHA9120D	1201	Schwarebeck

8.3 Test Result

Connect mode	Antenna Polarity	Remark	Test Data	Test Result
TM1	Horizontal	lower band edge	Diagram 015	Pass
	Vertical	lower band edge	Diagram 016	Pass
TM2	Horizontal	upper band edge	Diagram 017	Pass
	Vertical	upper band edge	Diagram 018	Pass

Remark: Worse case and worse point is reported .

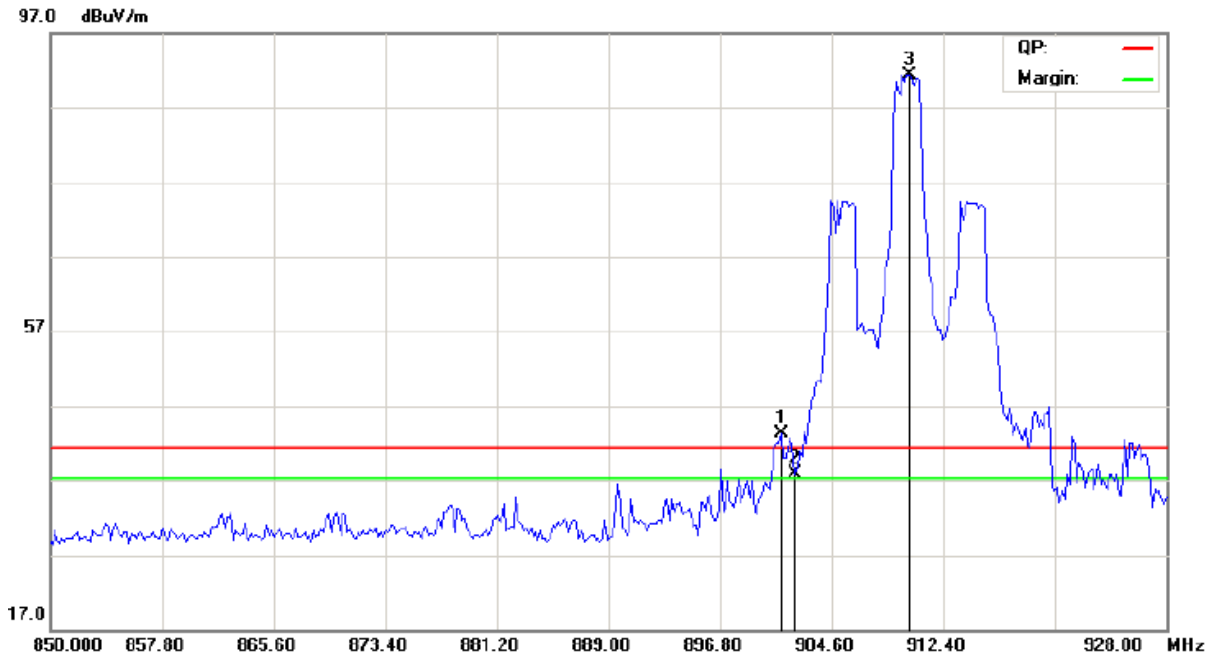
8.3.1 Diagram 015



Frequency (MHz)	QP Measurement (dB μ V/m)	Polarity	50 dB below the level of the fundamental (dB μ V/m)	Limit (dB μ V/m) 15.209(a)	Result
910.1803	92.21	H	N/A	N/A	N/A
902.0000	41.00	H	42.21	46	PASS

Remark : limits in Section 15.209 is the lesser attenuation.

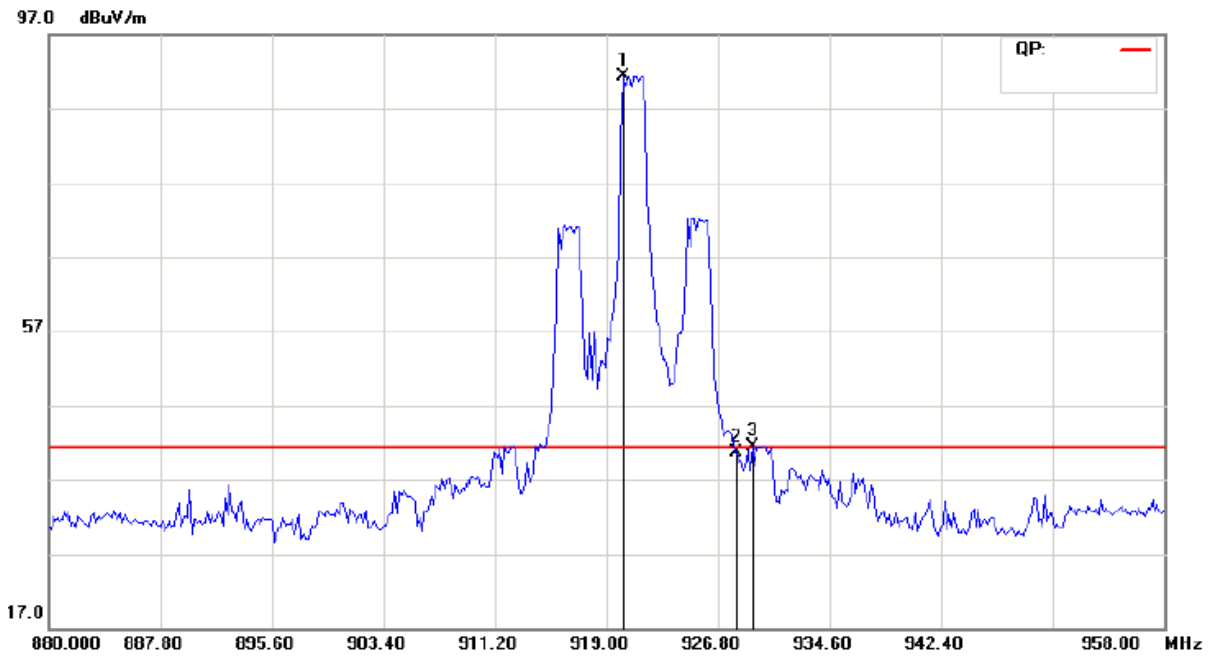
8.3.2 Diagram 016



Frequency (MHz)	QP Measurement (dBµV/m)	Polarity	50 dB below the level of the fundamental (dBµV/m)	Limit (dBµV/m) 15.209(a)	Result
910.0240	91.36	V	N/A	N/A	N/A
901.1141	43.23	V	41.36	46	PASS
902.0000	37.91	V	41.36	46	PASS

Remark : limits in Section 15.209 is the lesser attenuation.

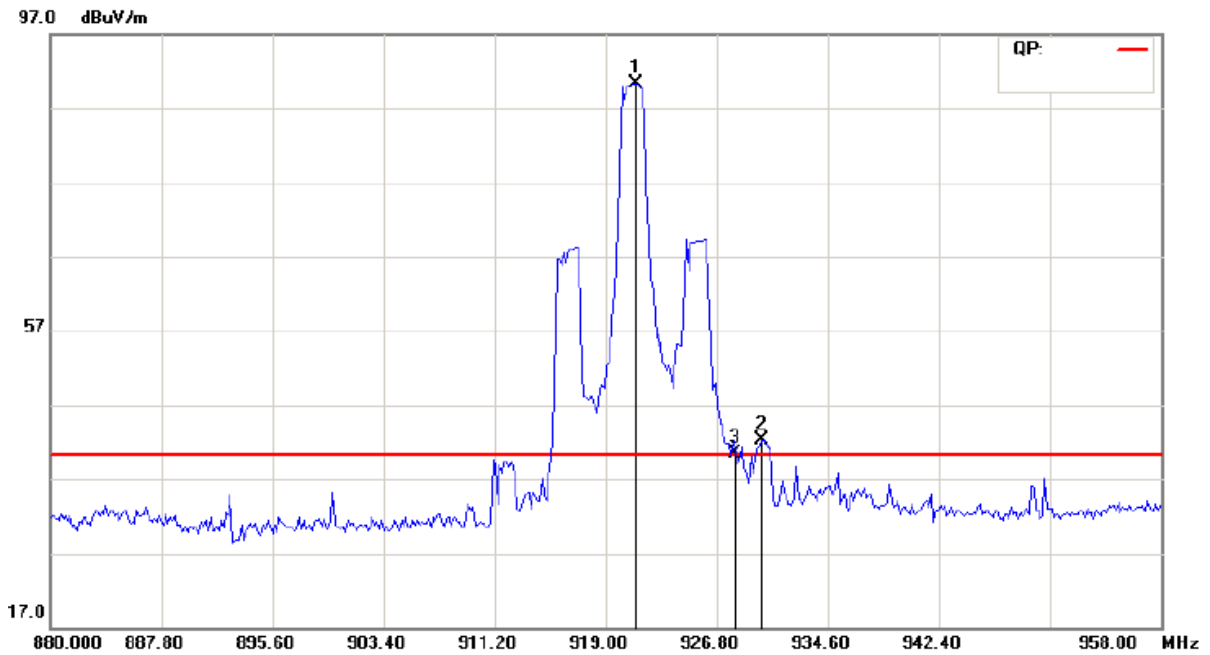
8.3.3 Diagram 017



Frequency (MHz)	QP Measurement (dB μ V/m)	Polarity	50 dB below the level of the fundamental (dB μ V/m)	Limit (dB μ V/m) 15.209(a)	Result
920.1721	91.39	H	N/A	N/A	N/A
929.2385	41.59	H	41.39	46	PASS
928.0000	40.67	H	41.39	46	PASS

Remark : limits in Section 15.209 is the lesser attenuation.

8.3.4 Diagram 018



Frequency (MHz)	QP Measurement (dB μ V/m)	Polarity	50 dB below the level of the fundamental (dB μ V/m)	Limit (dB μ V/m) 15.209(a)	Result
921.1100	90.33	V	N/A	N/A	N/A
930.0200	42.27	V	40.33	46	PASS
928.0000	40.50	V	40.33	46	PASS

Remark : limits in Section 15.209 is the lesser attenuation.



Appendix A Sample Label

Labelling Requirements

The sample label shown shall be permanently affixed at a conspicuous location on the device and be readily visible to the user at the time of purchase.

*** The following paragraph specified in the user manual.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

END OF REPORT