FCC/IC Test Report

Product Name	：	LE920A4-NA
Trade Name	：	Telit
Model No.	：	LE920A4-NA
FCC ID.	：	RI7LE920A4NA
IC ID.	：	5131A-LE920A4NA

Applicant	：	Telit Communications S.p.A.
Address	：	Viale Stazione di Prosecco, 5/B, 34010 Sgonico, Trieste, Italy

Date of Receipt	：	Dec. 07, 2016
Issued Date	：	Jan. 26, 2017
Report No.	：	16C0188R-HPUSP40V00
Report Version	：	V4.0

Testing Laboratory
3024

Test Report Certification

Issued Date : Jan. 26, 2017
Report No. :16C0188R-HPUSP40V00

Product Name	:	LE920A4-NA
Applicant	:	Telit Communications S.p.A.
Address	:	Viale Stazione di Prosecco, 5/B, 34010 Sgonico, Trieste, Italy
Manufacturer	:	Telit Wireless Solutions Ltd.
Model No.	:	LE920A4-NA
FCC ID.	:	RI7LE920A4NA
IC ID.	:	5131A-LE920A4NA
EUT Voltage	:	DC 3.8V
Testing Voltage	:	DC 3.8V
Trade Name	:	Telit
Applicable Standard	:	FCC CFR Title 47 Part 2 FCC CFR Title 47 Part 27 Subpart M ANSI/TIA-603-D-2010 RSS Gen Issue 4 RSS 139 Issue 3
Test Lab	:	Hsin Chu Laboratory
Test Result	:	Complied

The test results relate only to the samples tested.
The test report shall not be reproduced except in full without the written approval of DEKRA Testing and Certification Co., Ltd..

Documented By : Lyla Yang
(Lyla Yang / Engineering Adm. Assistant)

Tested By : JuBo Shen
(JuBo Shen / Senior Engineer)

Approved By : Roy Wang
(Roy Wang / Director)

Revision History

Report No.	Version	Description	Issued Date
16C0188R-HPUSP40V00	V4.0	Initial issue of report.	Jan. 26, 2017

Laboratory Information

We, **DEKRA Testing and Certification Co., Ltd.**, are an independent RF consultancy that was established the whole facility in our laboratories. The test facility has been accredited/accepted (audited or listed) by the following related bodies in compliance with ISO 17025 specified testing scopes:

Taiwan R.O.C.	**:**	**TAF, Accreditation Number: 3024**
USA	**:**	**FCC, Registration Number: 834100**
Canada	**:**	**IC, Submission No: 181665 / IC Registration Number: 22397-1 / 22397-2**

The related certificate for our laboratories about the test site and management system can be downloaded from DEKRA Testing and Certification Co., Ltd. Web Site:
http://www.dekra.com.tw/english/about/certificates.aspx?bval=5
The address and introduction of DEKRA Testing and Certification Co., Ltd. laboratories can be founded in our Web site : http://www.dekra.com.tw/index_en.aspx
If you have any comments, Please don't hesitate to contact us. Our contact information is as below:

Hsin Chu Laboratory :

No. 75-2, 3rd Lin, WangYe Keng, Yonghxing Tsuen, Qionglin Shiang, Hsinchu County 307, Taiwan (R.O.C.)
TEL:+886-3-592-8858 / FAX:+886-3-592-8859 E-Mail : info.tw@dekra.com
No.372, Sec. 4, Zhongxing Rd., Zhudong Township, Hsinchu County 31061, Taiwan
No.372-2, Sec. 4, Zhongxing Rd., Zhudong Township, Hsinchu County 31061, Taiwan
TEL: +886-3-582-8001 / FAX: +886-3-582-8958 E-Mail : info.tw@dekra.com

Lin Kou Laboratory :

No. 5-22, Ruishukeng, Linkou Dist., New Taipei City 24451, Taiwan (R.O.C.)
TEL : +886-2-8601-3788 / FAX : +886-2-8601-3789 E-Mail : info.tw@dekra.com

TABLE OF CONTENTS

1. General Information

1.1. EUT Description

Product Name	LE920A4-NA
Model No.	LE920A4-NA
Trade Name	Telit
Tx Frequency Range/Channel number	WCDMA Band 4: 1712.4-1752.6 MHz
Rx Frequency Range/Channel number	WCDMA Band 4: 2112.4-2152.6 MHz
Type of Modulation	WCDMA: QPSK (Uplink); HSDPA: QPSK (Uplink)
HW Version	1.00
SW Version	25.00.011

Antenna Information	
Antenna Type	Dipole Antenna
Antenna Gain	0.99 dBi (698-960 MHz) 2.37 dBi (1710-2170 MHz) 2.81 dBi (2400-2700MHz)

Note:

This LE920A4-NA included GSM 850, DCS 1900, WCDMA Band 2, WCDMA Band 4 and WCDMA Band 5 transmitting and receiving function.

1.2. Test Mode

DEKRA has verified the construction and function in typical operation. The preliminary tests were performed in different data rate, and to find the worst condition, which was shown in this test report. The following table is the final test mode.

Final Test Model	
TX	Mode 1: WCDMA Band 4_Link Mode Mode 2: WCDMA Band 4_Idle Mode Mode 3: WCDMA Band 4_HSUPA Mode Mode 4: WCDMA Band 4_HSDPA Mode

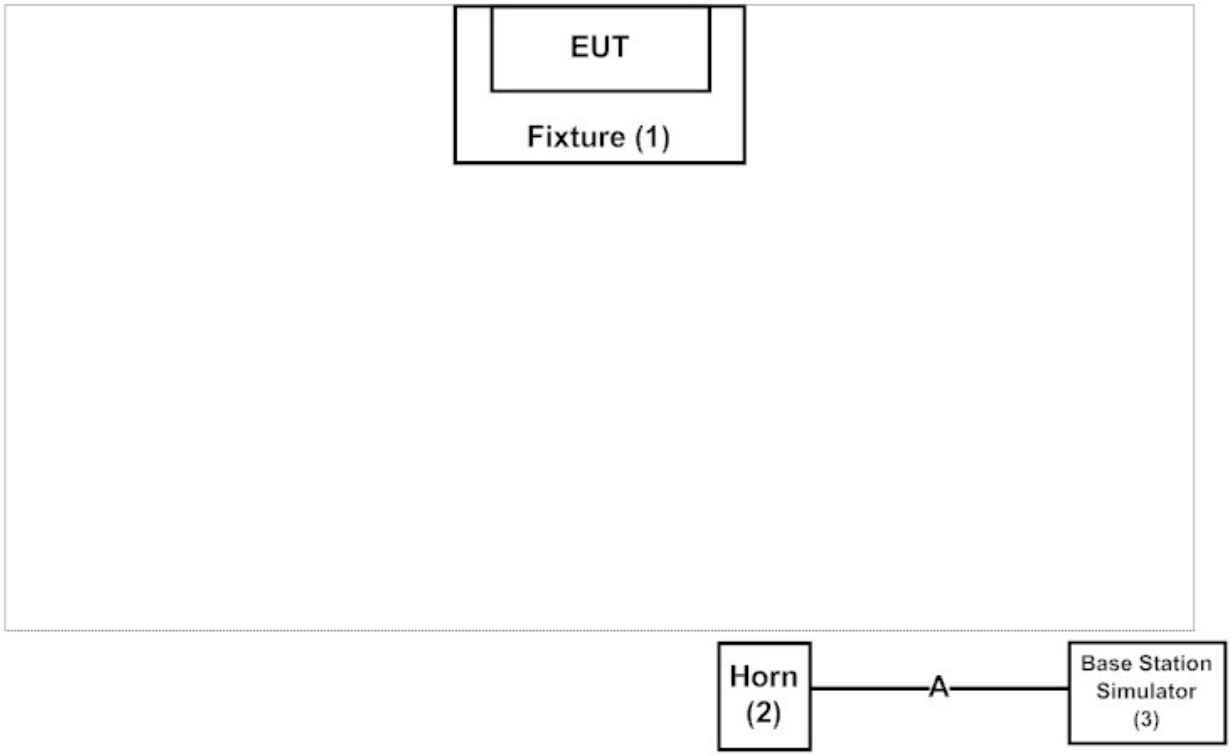
1.3. Tested System Details

The types for all equipments, plus descriptions of all cables used in the tested system (including inserted cards) are:

Product		Manufacturer	Model No.	Serial No.	FCC ID	Power Cord
1	Fixture	Telit	CS1742C	1742C180000037	DoC	--
2	Horn	ELECTRO METRICS	EM6961	103326	DoC	--
3	Base Station Simulator	JRC	NJZ-2000	ET00477	DoC	--

1.4. Configuration of tested System

Connection Diagram



Signal Cable Type		Signal cable Description
A	RF Cable	Shielded, 2m.

1.5. EUT Exercise Software

1	Setup the EUT and simulators as shown on 1.7.
2	Turn on the power of all equipment. Horn link with base station.
3	The EUT link with base station and it will continue receive the signal from WCDMA function.
4	Repeat the above procedure.

2. Technical Test

2.1. Summary of Test Result

Performed Item	FCC References	IC References	Result
Peak Output Power	FCC PART 2.1046 and PART 27.50(h)(2)	RSS-139 §6.5	Pass
Occupied Bandwidth	FCC PART 2.1049 and PART 27.53(l)(6)	RSS-Gen §6.6	Pass
Spurious Emission At Antenna Terminals (+/- 1MHz)	FCC PART 2.1051 and PART 27.53(l)(4)(6)	RSS-139 §6.6	Pass
Spurious Emission	FCC PART 2.1051 and PART 27.53(l)(4)(6)	RSS-139 §6.6	Pass
Frequency Stability Under Temperature & Voltage Variations	FCC PART 2.1055(a)(l) and PART 27.54	RSS-139 §6.4	Pass

2.2. Test Environment

Items	Required (IEC 68-1)	Actual
Temperature (°C)	15-35	23
Humidity (%RH)	25-75	52
Barometric pressure (mbar)	860-1060	950-1000

3. Peak Output Power

3.1. Test Equipment

The following test equipments are used during the test:

Peak Output Power - Conducted Measurement /SR10-H

Instrument	Manufacturer	Model No.	Serial No	Next Cal. Date
Signal & Spectrum Analyzer	R&S	FSVA40	101455	2017/11/27
Multisystem UE Tester	Japan radio	NJZ-2000	ET00477	2017/09/19
Directional coupler	Agilent	778D	20402	2017/10/06

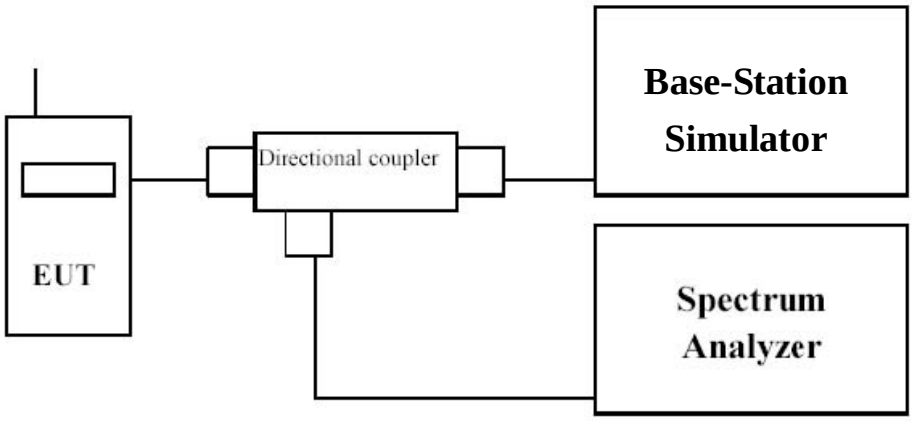
Peak Output Power - Radiated Measurement /CB2-H

Instrument	Manufacturer	Model No.	Serial No	Next Cal. Date
Bilog Antenna	Schaffner	CBL6112B	2891	2017/08/14
Horn Antenna	Schwarzbeck	BBHA 9120	D312	2017/10/25
Pre-Amplifier	EMCI	EMC0031835	980233	2018/02/02
Pre-Amplifier	Schwarzbeck	DBL-1840N506	013	2017/09/29
Pre-Amplifier	Miteq	JS41-001040000-58-5P	1573954	2017/10/04
Horn Antenna	Schwarzbeck	BBHA 9170	203	2017/08/28
Signal & Spectrum Analyzer	R&S	FSV40	101049	2018/01/05

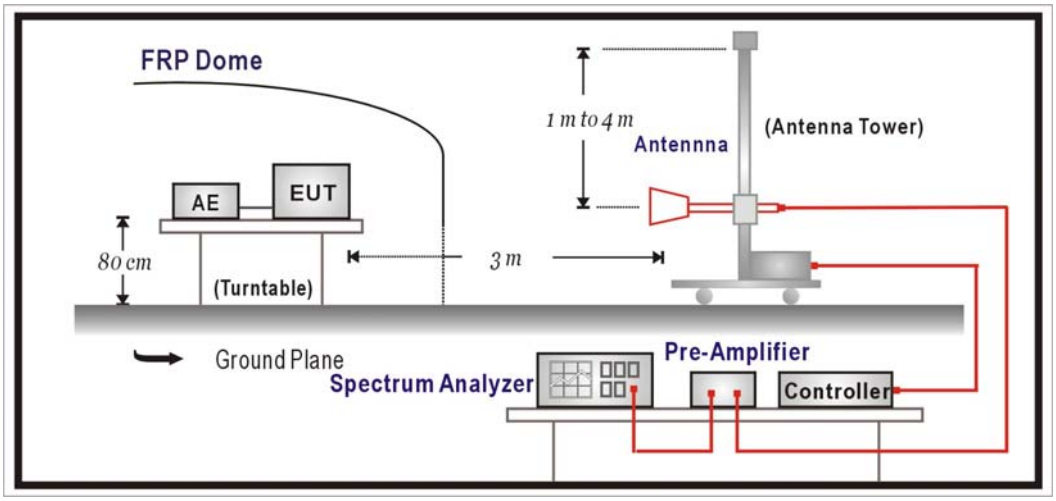
Note: All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.

3.2. Test Setup

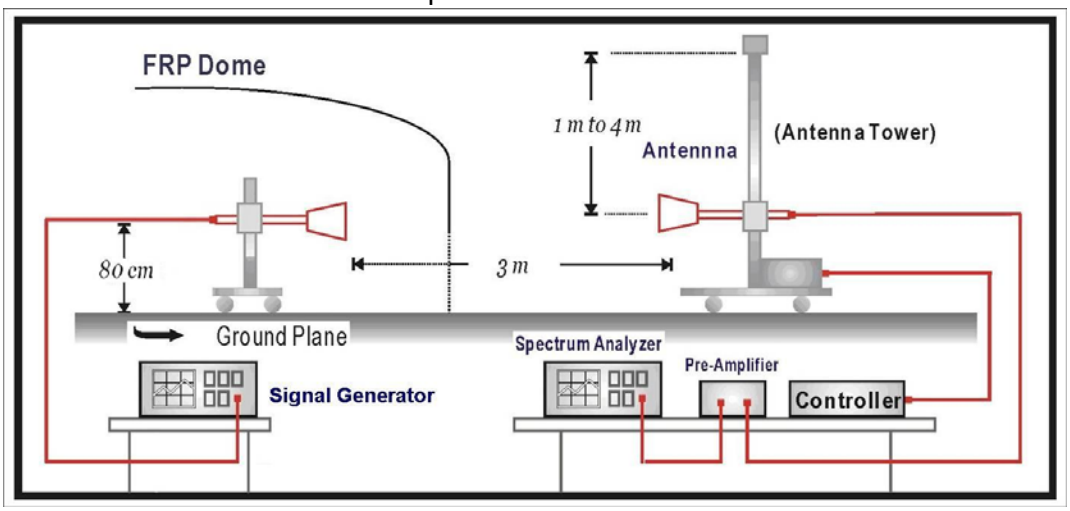
RF Conducted Measurement:



RF Radiated Measurement:



Substitution Measurement Setup:



3.3. Limits

(1) Main, Booster and Base Stations: Maximum E.I.R.P shall not exceed 33 dBW + 10log(X/Y) dBW, where X is the actual channel width in MHz and Y is either 6 MHz if prior to transition or the station is in the MBS following transition or 5.5 MHz if the station is in the LBS and UBS following transition.

(2) Mobile and Other User Stations: 2.0 Watts EIRP.

3.4. Test Procedure

The conducted peak output power is measured using R&S Spectrum Analyzer. The EUT was set up for the rated peak power. All measurements were done at 3 channels: low, middle and high operational frequency range.

For measuring E.I.R.P peak power, EUT was placed on the turn-table which was rotated around 360 degrees to search the maximum radiation power and receiver antenna was rotated vertical and horizontal polarization to find the maximum polarization radiated power.

The EUT is replaced by a horn antenna connected to a signal generator tuned to the frequency of emission and level of signal generator adjusted to same level of emission. Both horizontal and vertical polarization of the antenna are set on measurement.

The radiated E.I.R.P power was calculated via the Correct factor, Reading Level, and Antenna gain as follows:
E.I.R.P = Reading Level + Correct Factor = S.G. – Cable Loss + Antenna Gain

3.5. Uncertainty

The measurement uncertainty is defined as ±1.27 dB

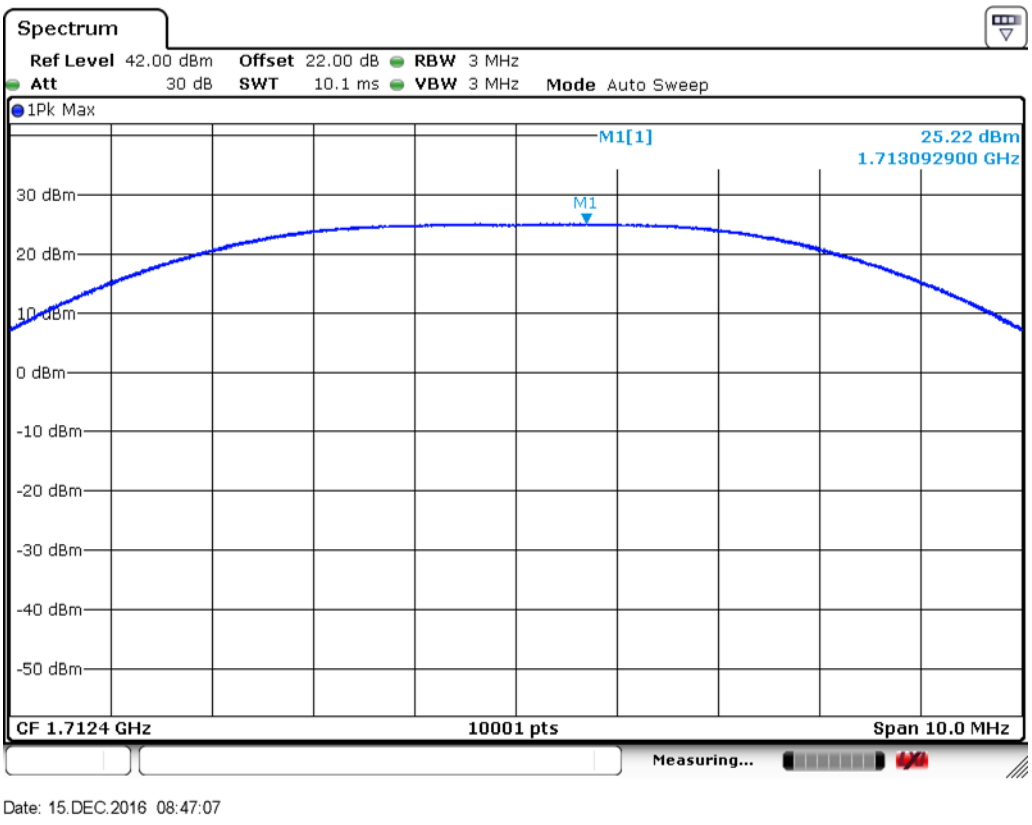
3.6. Test Result

Product	LE920A4-NA		
Test Item	Peak Output Power		
Test Mode	Mode 1: WCDMA Band 4_Link mode		
Date of Test	2016/12/06	Test Site	SR10-H

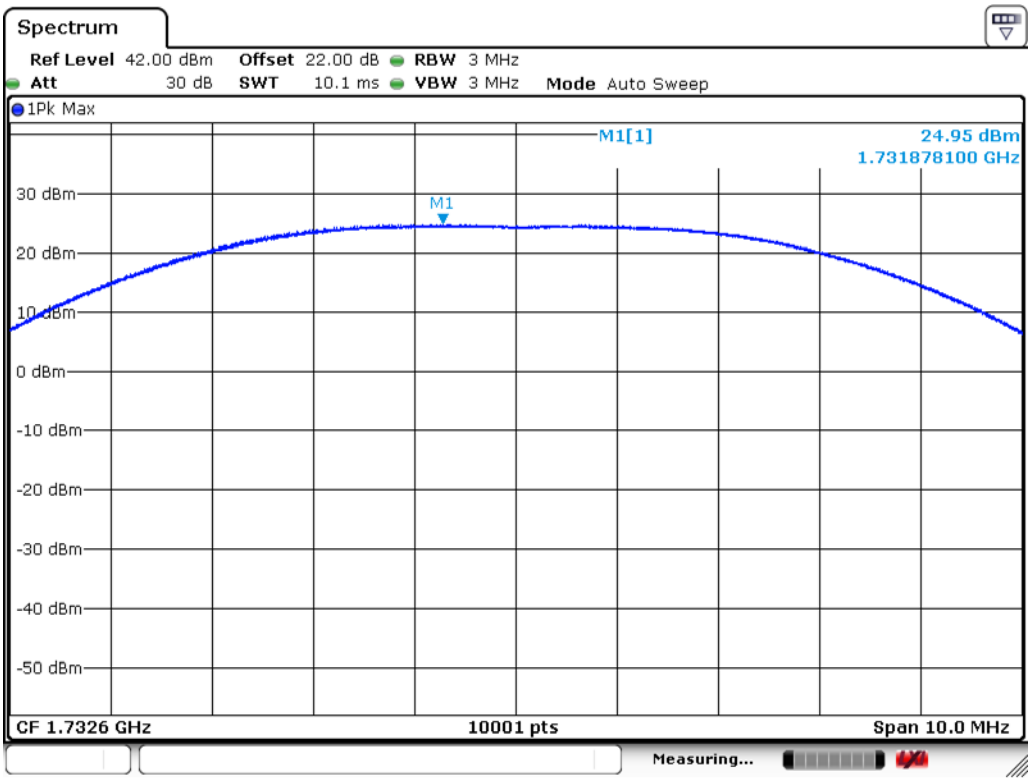
Frequency (MHz)	Peak Power		Average Power		Limit (dBm)
	Reading Level (dBm)	Measure Level (dBm)	Reading Level (dBm)	Measure Level (dBm)	
1712.4	25.22	28.03	22.36	25.17	30
1732.6	24.95	27.76	22.07	24.88	30
1752.6	24.65	27.46	21.77	24.58	30

Note: Measure Level=Reading Level + Antenna Gain

1712.4 MHz

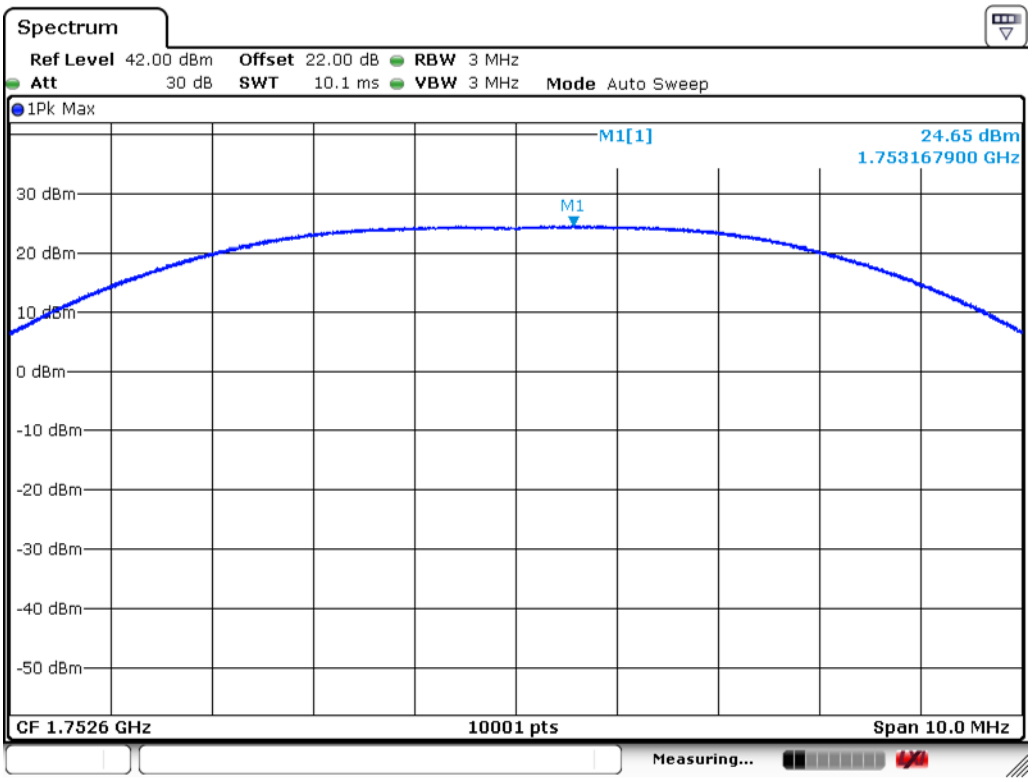


1732.6 MHz



Date: 15.DEC.2016 08:46:27

1752.6 MHz



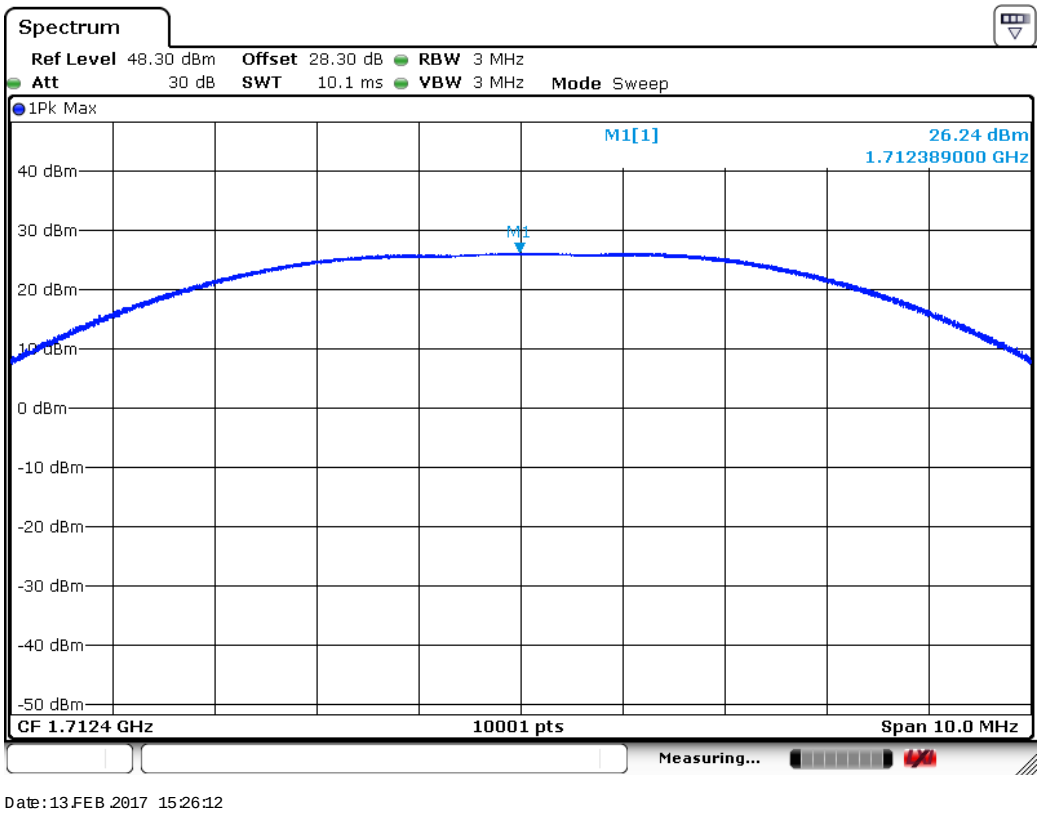
Date: 15.DEC.2016 08:45:32

Product	LE920A4-NA		
Test Item	Peak Output Power		
Test Mode	Mode 3: WCDMA Band 4_HSUPA Mode		
Date of Test	2017/02/13	Test Site	SR10-H

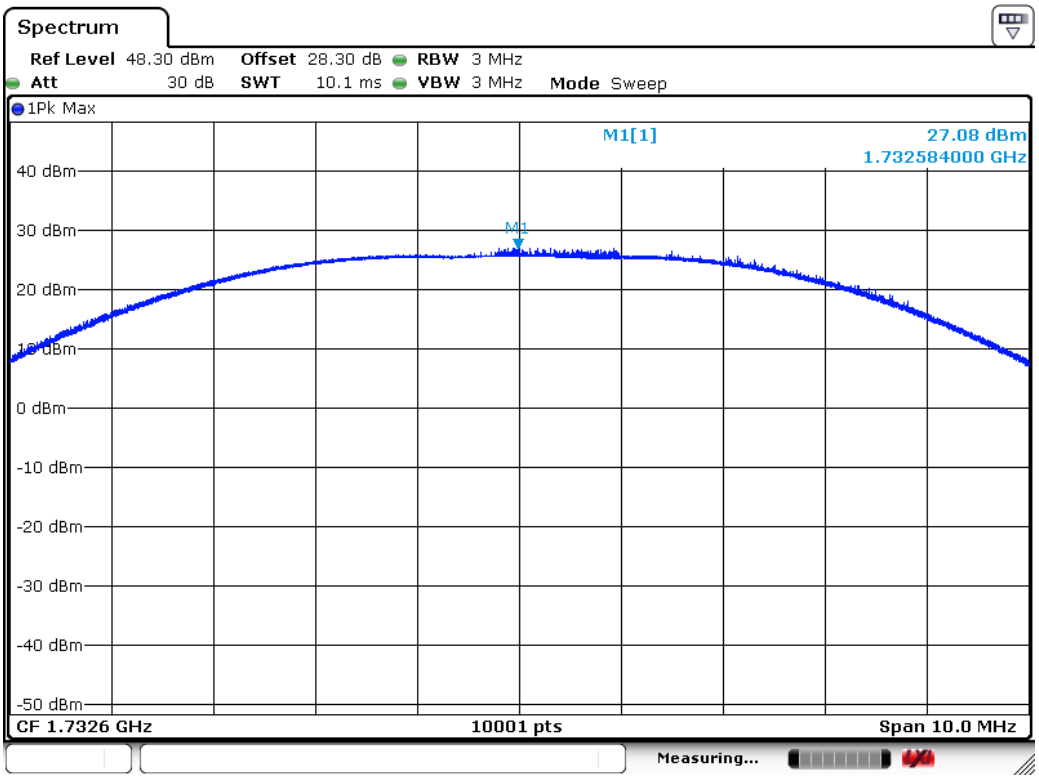
Frequency (MHz)	Peak Power		Average Power		Limit (dBm)
	Reading Level (dBm)	Measure Level (dBm)	Reading Level (dBm)	Measure Level (dBm)	
1712.4	26.24	28.61	23.09	25.46	30
1732.6	27.08	29.45	22.85	25.22	30
1752.6	26.22	28.59	23.05	25.42	30

Note: Measure Level=Reading Level + Antenna Gain

1712.4 MHz

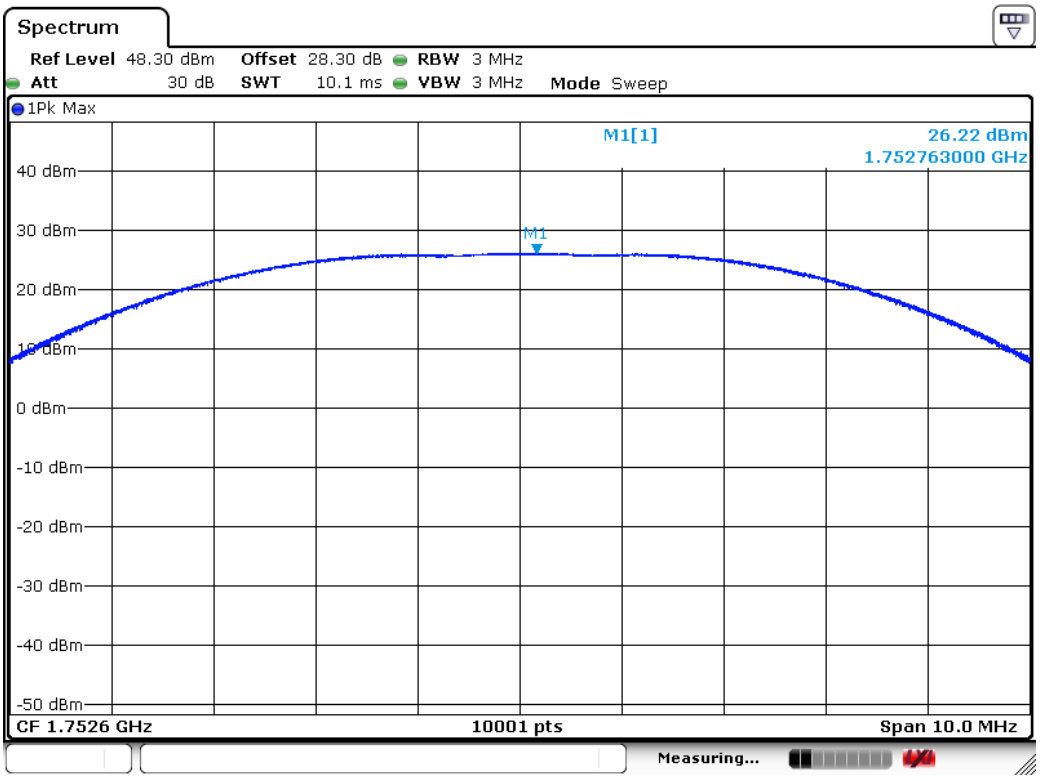


1732.6 MHz



Date: 13.FEB.2017 15:25:24

1752.6 MHz



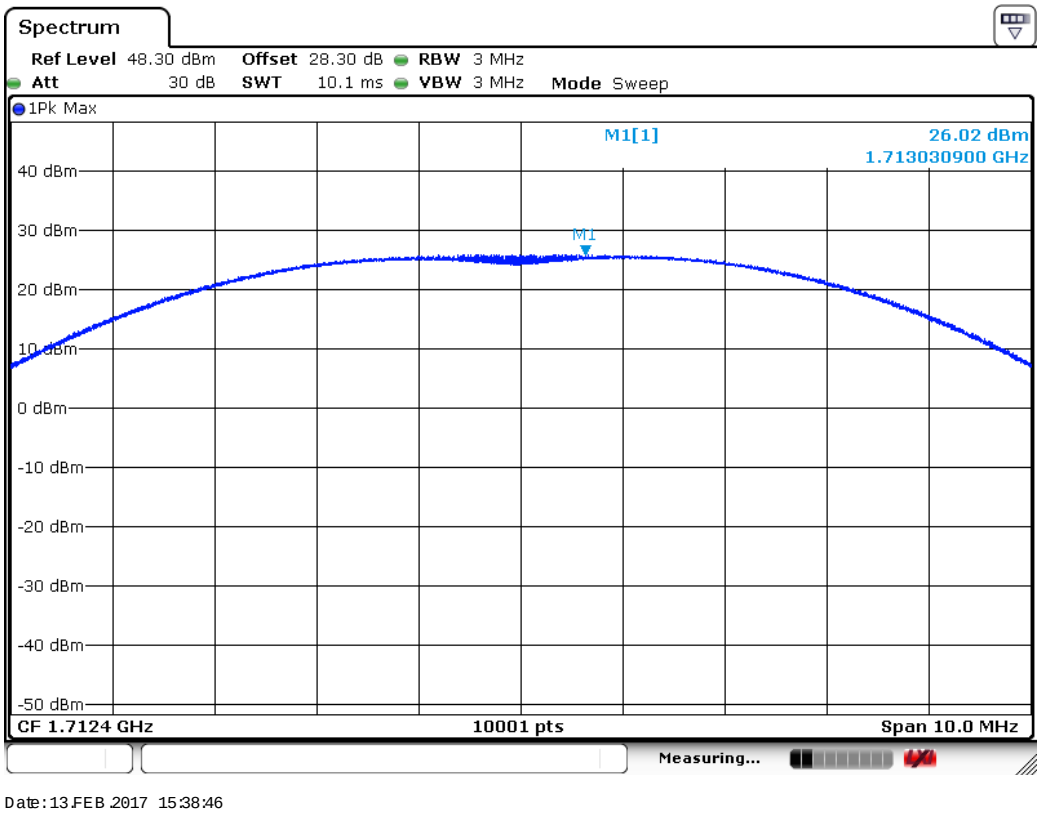
Date: 13.FEB.2017 15:24:28

Product	LE920A4-NA		
Test Item	Peak Output Power		
Test Mode	Mode 4: WCDMA Band 4_HSDPA Mode		
Date of Test	2017/02/13	Test Site	SR10-H

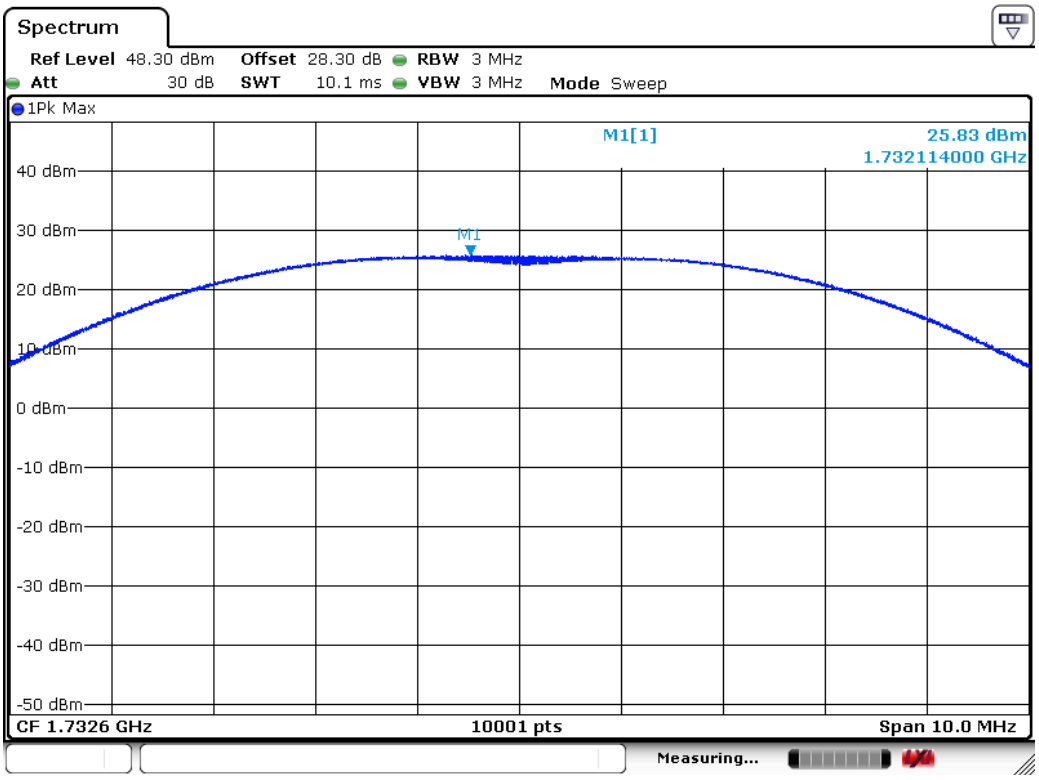
Frequency (MHz)	Peak Power		Average Power		Limit (dBm)
	Reading Level (dBm)	Measure Level (dBm)	Reading Level (dBm)	Measure Level (dBm)	
1712.4	26.02	28.39	23.83	26.20	30
1732.6	25.83	28.2	23.50	25.87	30
1752.6	26.03	28.4	24.04	26.41	30

Note: Measure Level=Reading Level + Antenna Gain

1712.4 MHz

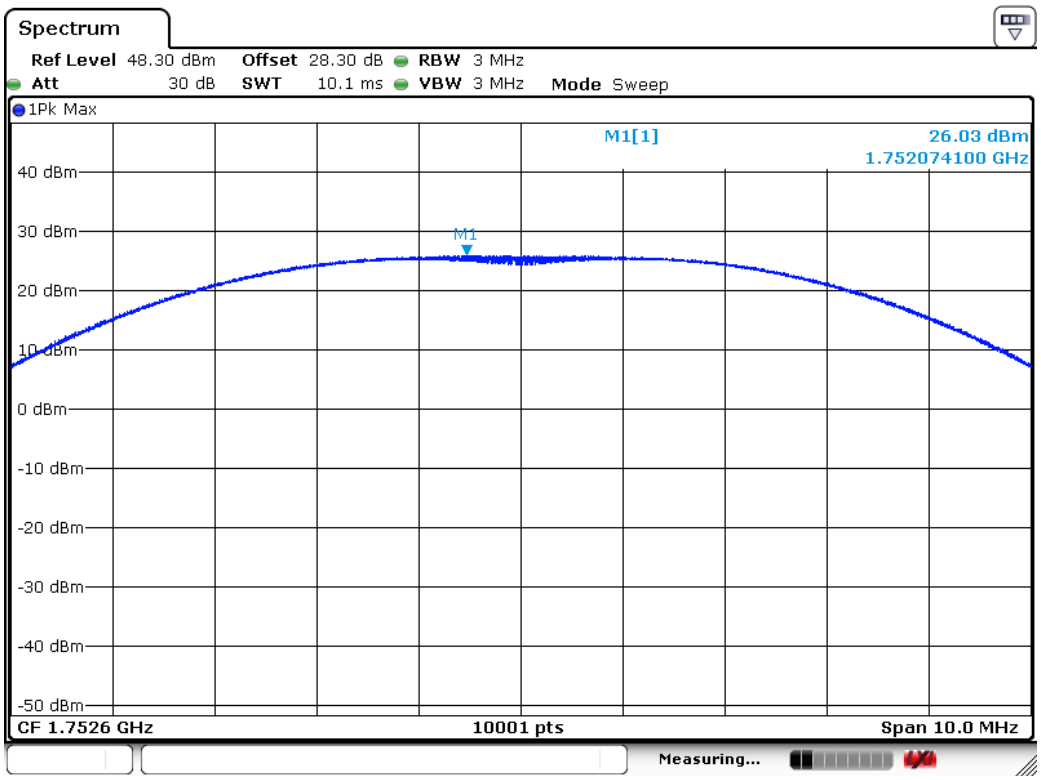


1732.6 MHz



Date: 13.FEB.2017 15:38:19

1752.6 MHz



Date: 13.FEB.2017 15:37:38

Product	LE920A4-NA		
Test Item	Peak Output Power_ Radiated		
Test Mode	Mode 1: WCDMA Band 4_Link mode		
Date of Test	2016/12/14	Test Site	CB2-H

Frequency (MHz)	Measure Level (dBm)	Limit (dBm)
1712.4	26.162	30
1732.6	26.547	30
1752.6	26.233	30

Product	LE920A4-NA		
Test Item	Peak Output Power_ Radiated		
Test Mode	Mode 3: WCDMA Band 4_HSUPA Mode		
Date of Test	2017/02/13	Test Site	CB2-H

Frequency (MHz)	Measure Level (dBm)	Limit (dBm)
1712.4	26.678	30
1732.6	27.191	30
1752.6	28.480	30

Product	LE920A4-NA		
Test Item	Peak Output Power_ Radiated		
Test Mode	Mode 4: WCDMA Band 4_HSDPA Mode		
Date of Test	2017/02/13	Test Site	CB2-H

Frequency (MHz)	Measure Level (dBm)	Limit (dBm)
1712.4	27.698	30
1732.6	27.502	30
1752.6	27.294	30

4. Occupied Bandwidth

4.1. Test Equipment

The following test equipments are used during the test:

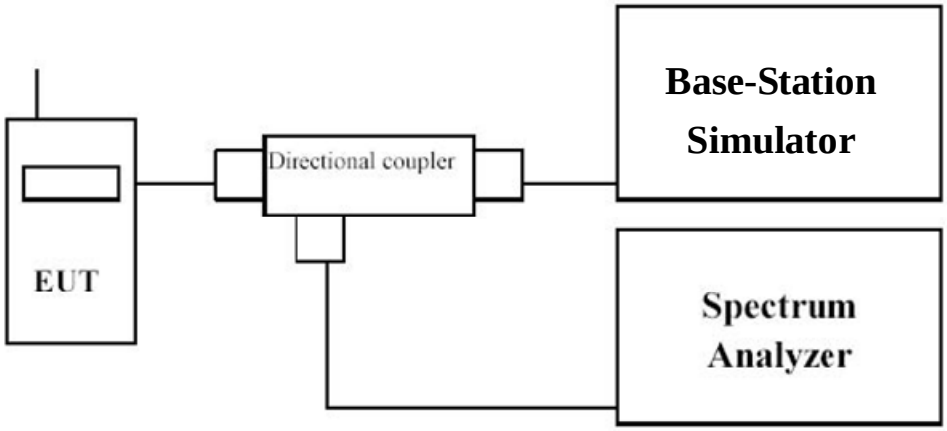
Occupied Bandwidth/ SR10-H

Instrument	Manufacturer	Model No.	Serial No.	Next Cal. Date
Signal & Spectrum Analyzer	R&S	FSV40	101049	2017/01/05
Multisystem UE Tester	Japan radio	NJZ-2000	ET00477	2017/09/19
Directional coupler	Agilent	778D-012	50550	2017/01/06

Note: All equipments are calibrated with traceable calibrations.

Each calibration is traceable to the national or international standards.

4.2. Test Setup



4.3. Limits

The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

4.4. Test Procedure

The occupied bandwidth is measured using R&S Spectrum Analyzer with a resolution bandwidth of 100 kHz, video bandwidth of 300 kHz and span of 10 MHz. The EUT was set up for the rated peak power under transmission mode and specific channel frequency. The standards required a measurement bandwidth is the fundamental emission below 26dB bandwidth.

4.5. Uncertainty

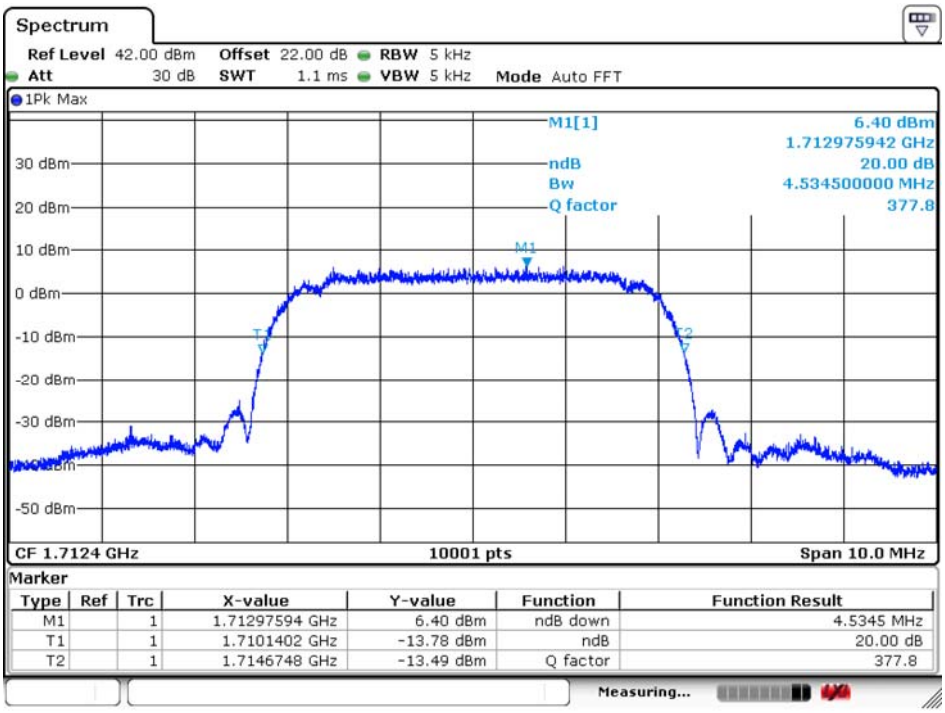
The measurement uncertainty is defined as ±50 KHz

4.6. Test Result

Product	LE920A4-NA		
Test Item	Occupied Bandwidth		
Test Mode	Mode 1: WCDMA Band 4_Link mode		
Date of Test	2016/12/15	Test Site	SR10-H

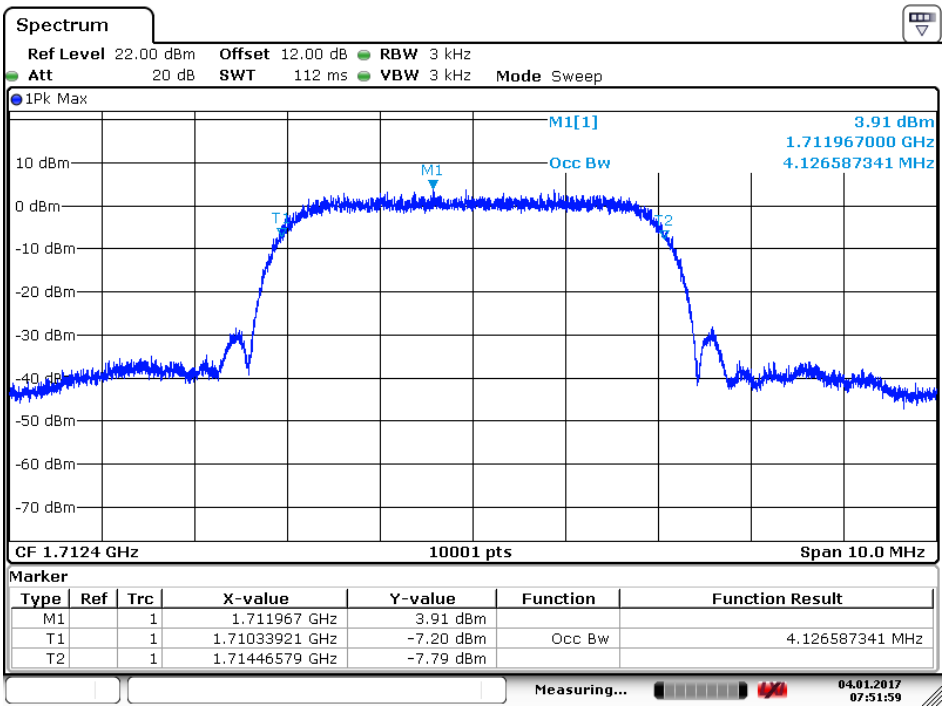
Frequency (MHz)	-26dB BW Measure Level (MHz)	99% BW Measure Level (MHz)	Limit (MHz)
1712.4	4.535	4.127	N/A
1732.6	4.542	4.130	N/A
1752.6	4.502	4.120	N/A

1712.4 MHz (-26dB BW)



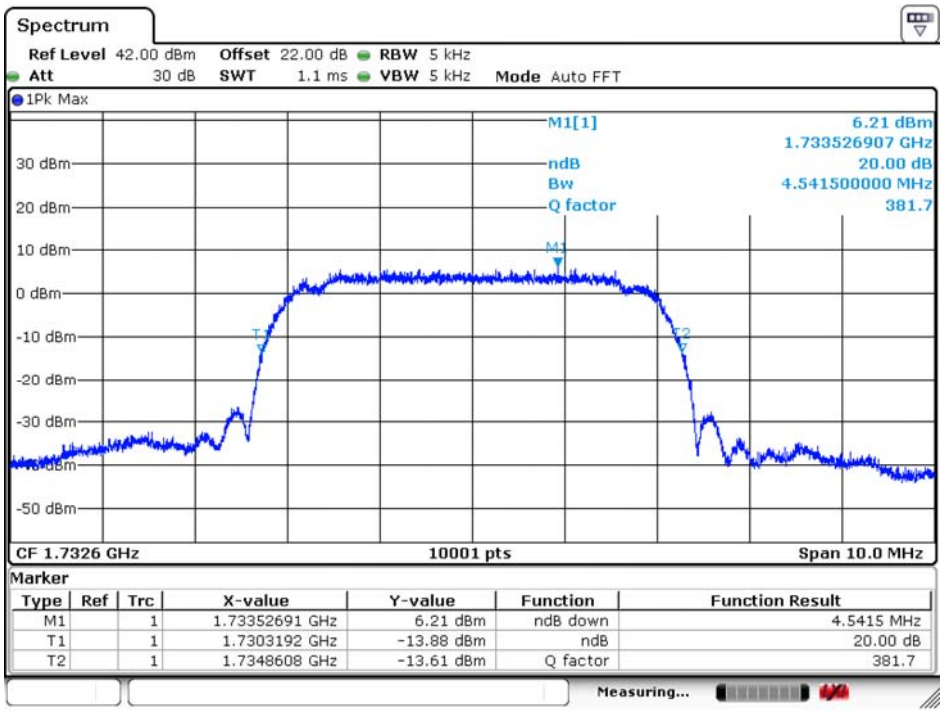
Date: 15.DEC.2016 09:07:55

1712.4 MHz (99% BW)



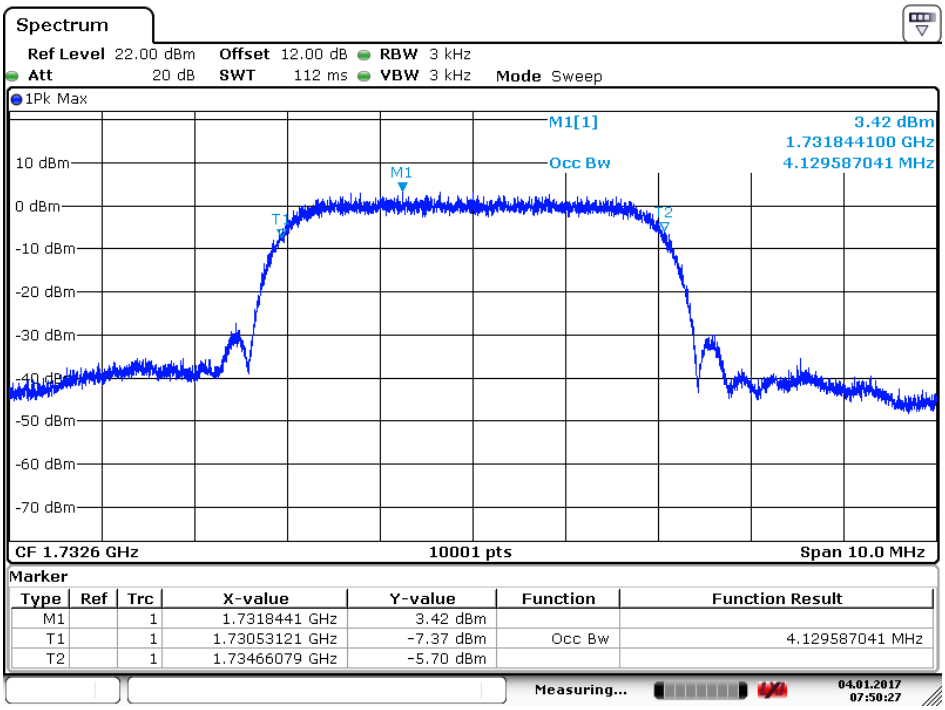
Date: 4.JAN.2017 07:51:59

1732.6 MHz (-26dB BW)



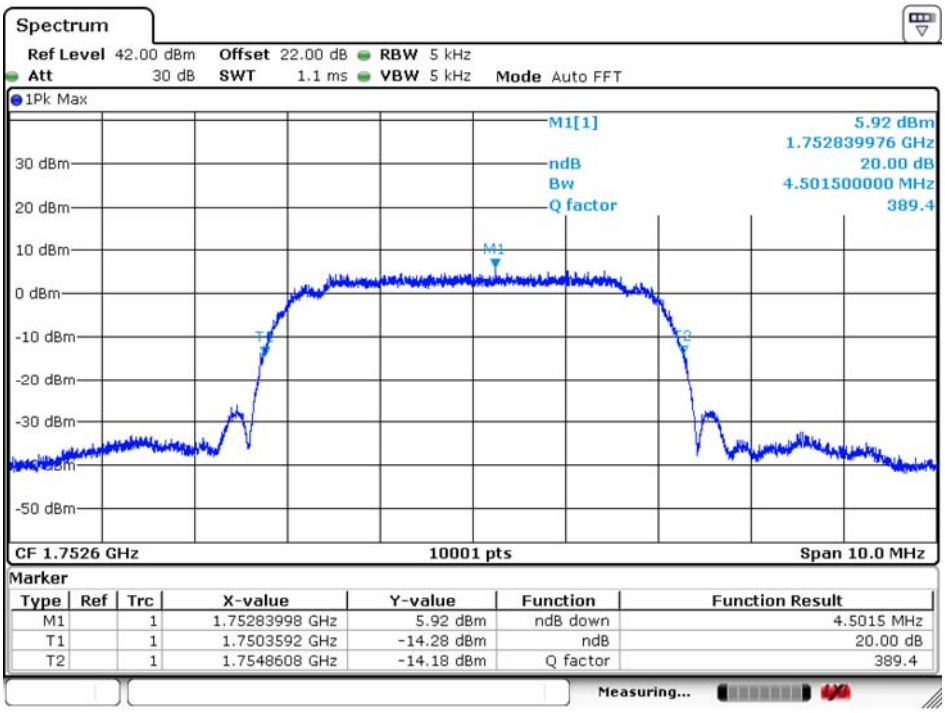
Date: 15.DEC.2016 09:06:16

1732.6 MHz (99% BW)



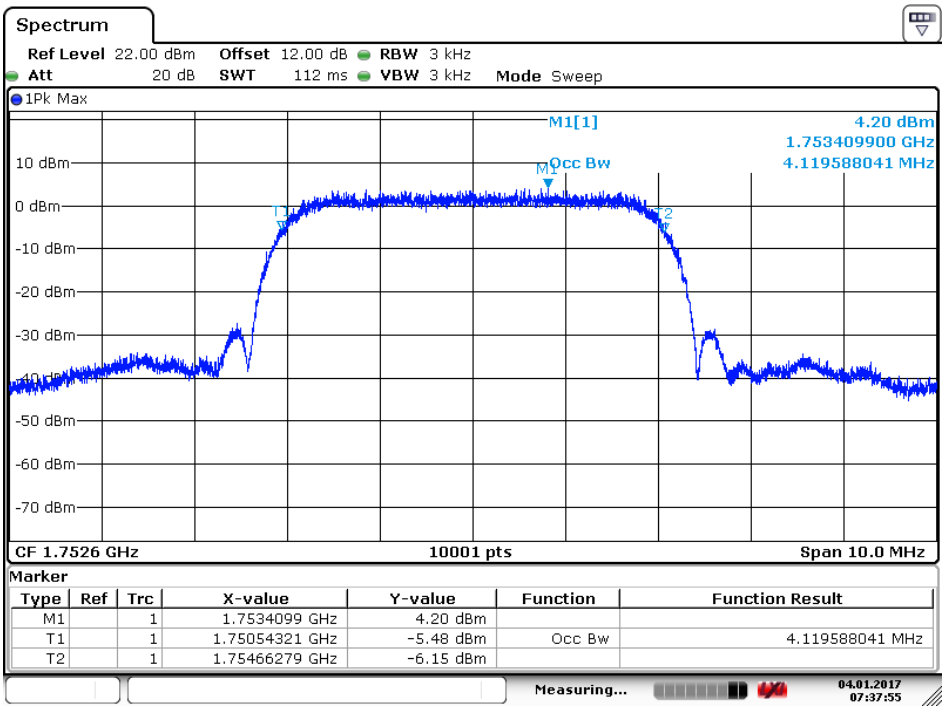
Date: 4.JAN.2017 07:50:27

1752.6MHz (-26dB BW)



Date: 15.DEC.2016 09:06:56

1752.6MHz (99% BW)

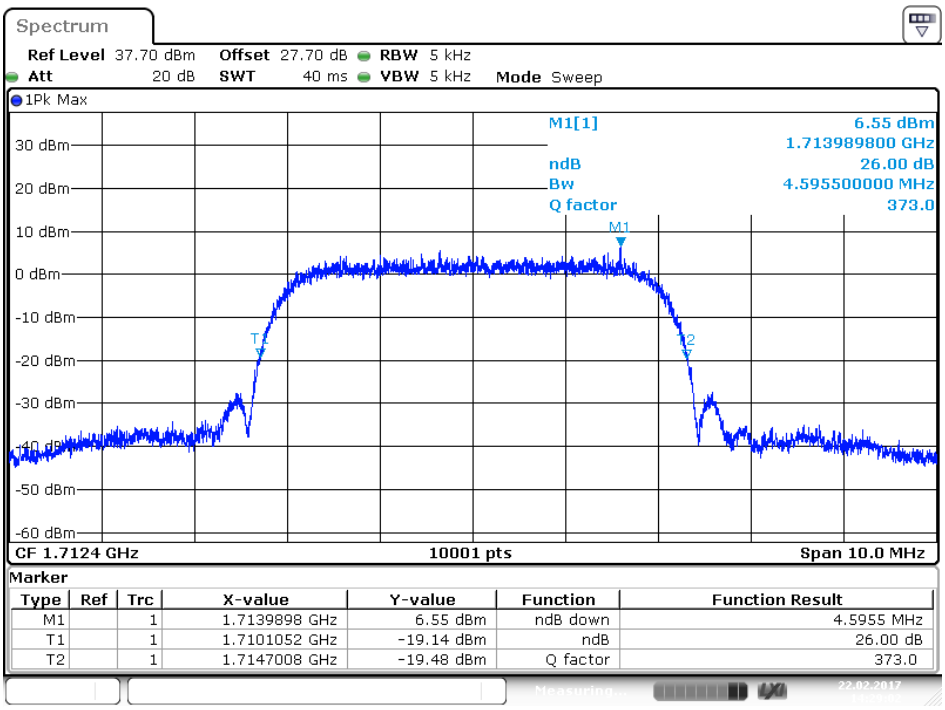


Date: 4.JAN.2017 07:37:56

Product	LE920A4-NA		
Test Item	Occupied Bandwidth		
Test Mode	Mode 3: WCDMA Band 4_HSUPA Mode		
Date of Test	2017/02/22	Test Site	SR10-H

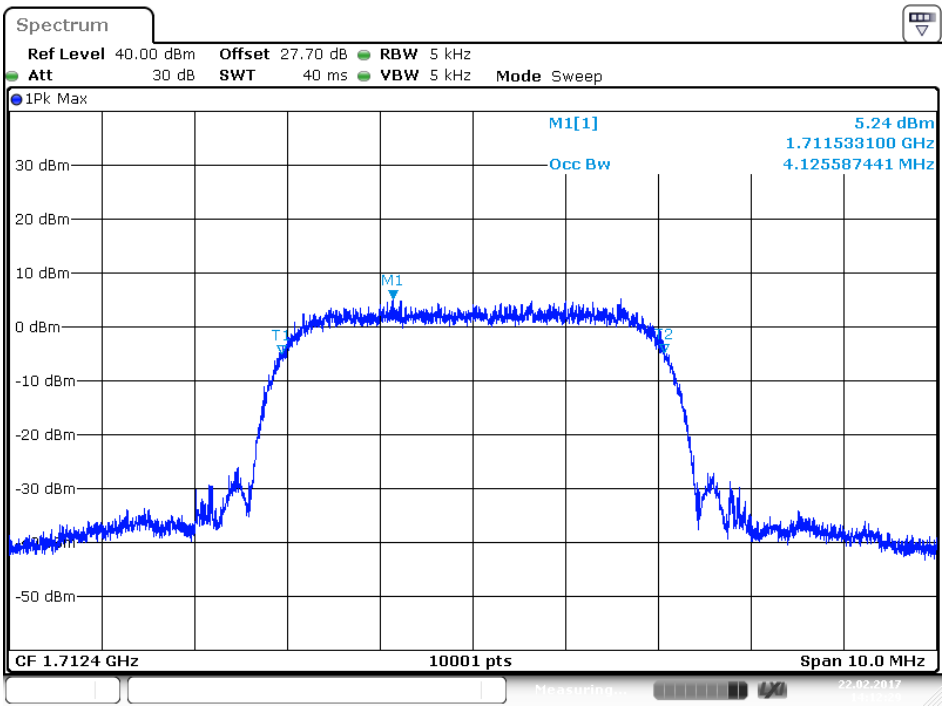
Frequency (MHz)	-26dB BW Measure Level (MHz)	99% BW Measure Level (MHz)	Limit (MHz)
1712.4	4.596	4.126	N/A
1732.6	4.655	4.130	N/A
1752.6	4.641	4.128	N/A

1712.4 MHz (-26dB BW)



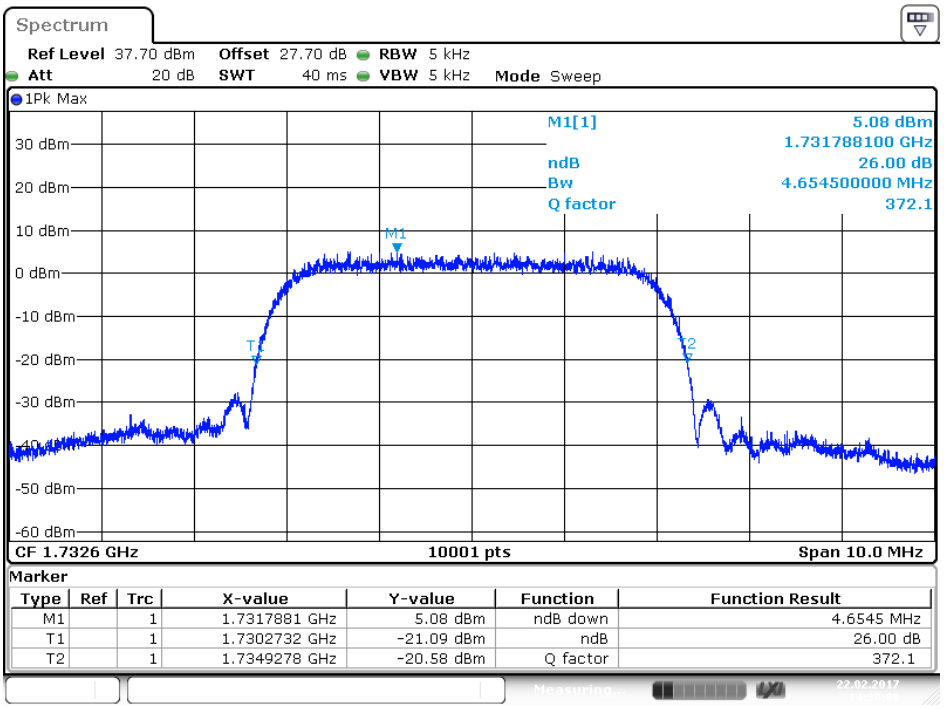
Date: 22.FEB.2017 14:29:02

1712.4 MHz (99% BW)



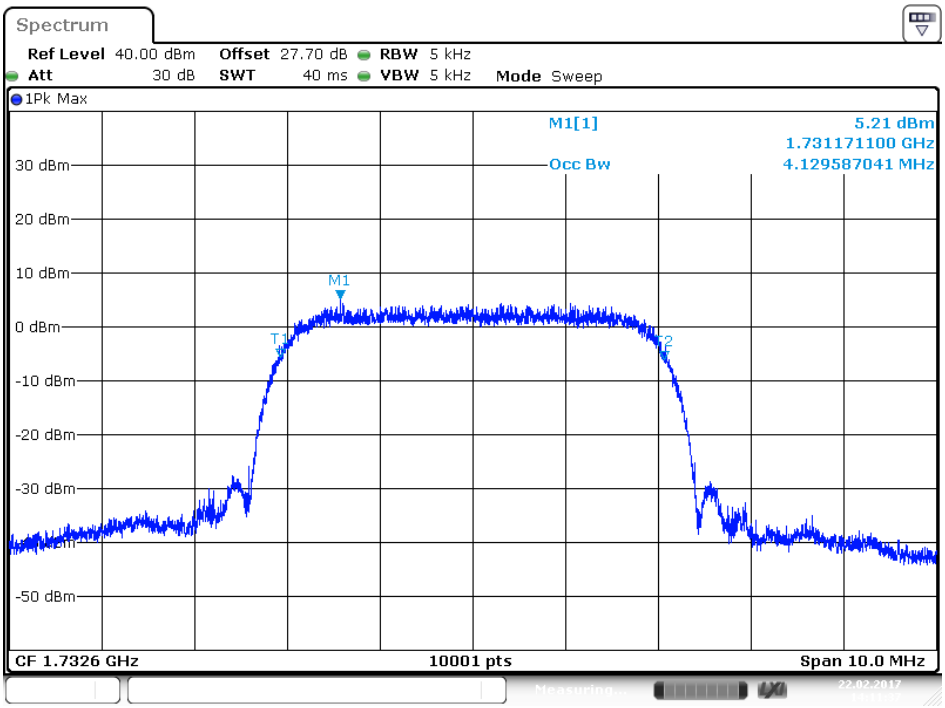
Date: 22.FEB.2017 14:12:29

1732.6 MHz (-26dB BW)



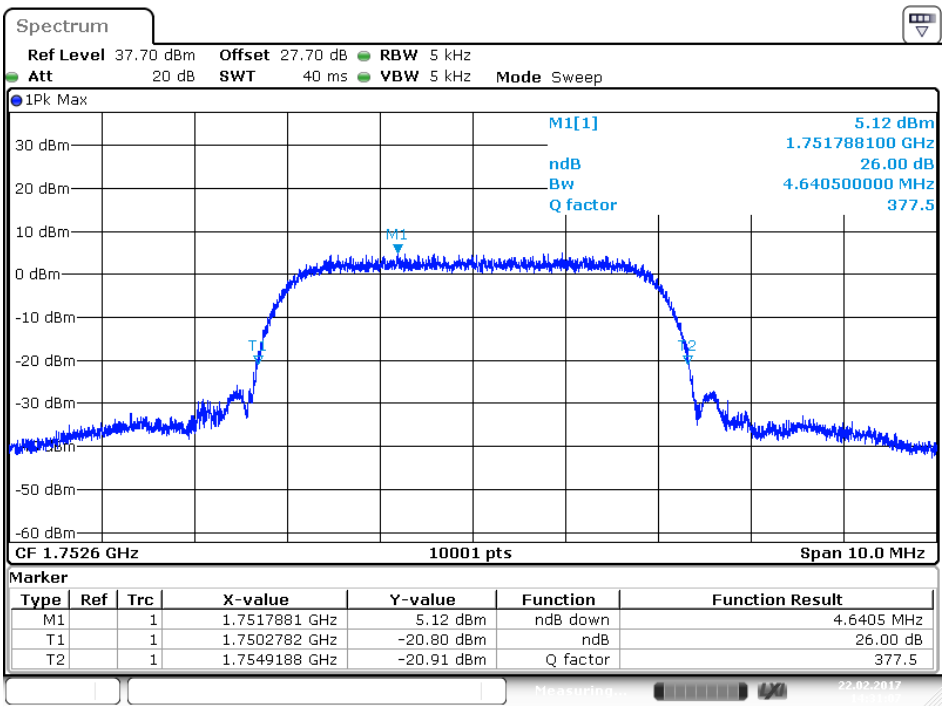
Date: 22.FEB.2017 14:30:07

1732.6 MHz (99% BW)



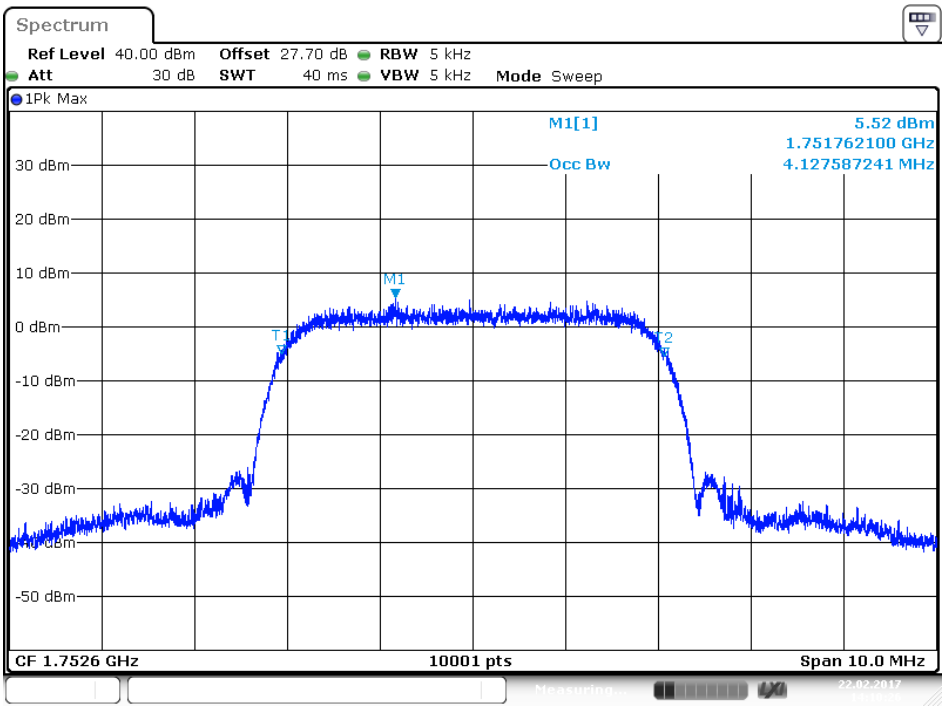
Date: 22.FEB.2017 14:11:38

1752.6MHz (-26dB BW)



Date: 22.FEB.2017 14:31:07

1752.6MHz (99% BW)

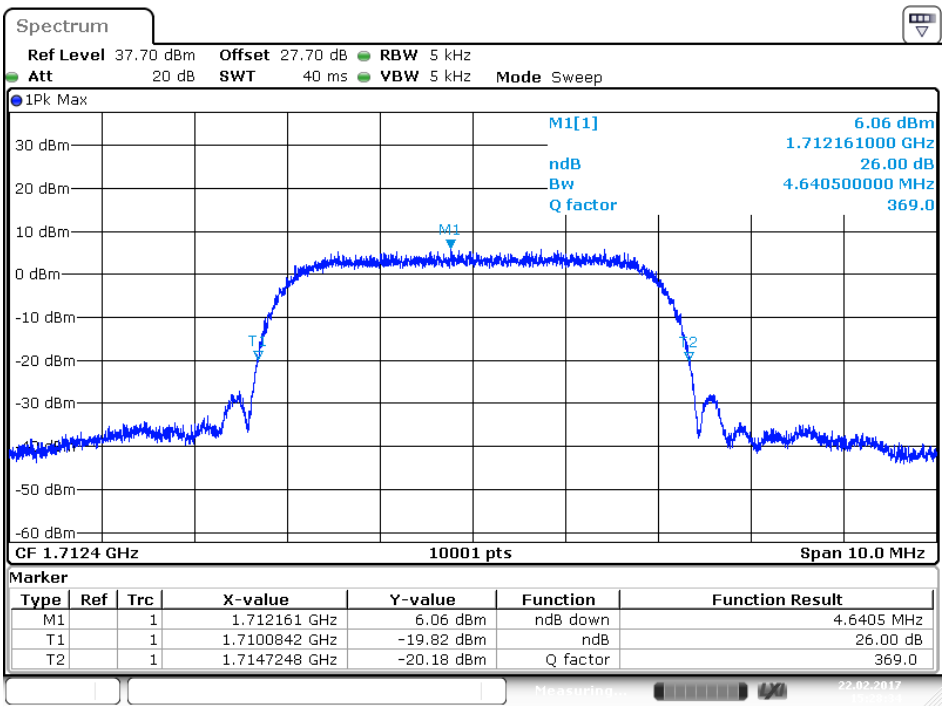


Date: 22.FEB.2017 14:10:27

Product	LE920A4-NA		
Test Item	Occupied Bandwidth		
Test Mode	Mode 4: WCDMA Band 4_HSDPA Mode		
Date of Test	2017/02/22	Test Site	SR10-H

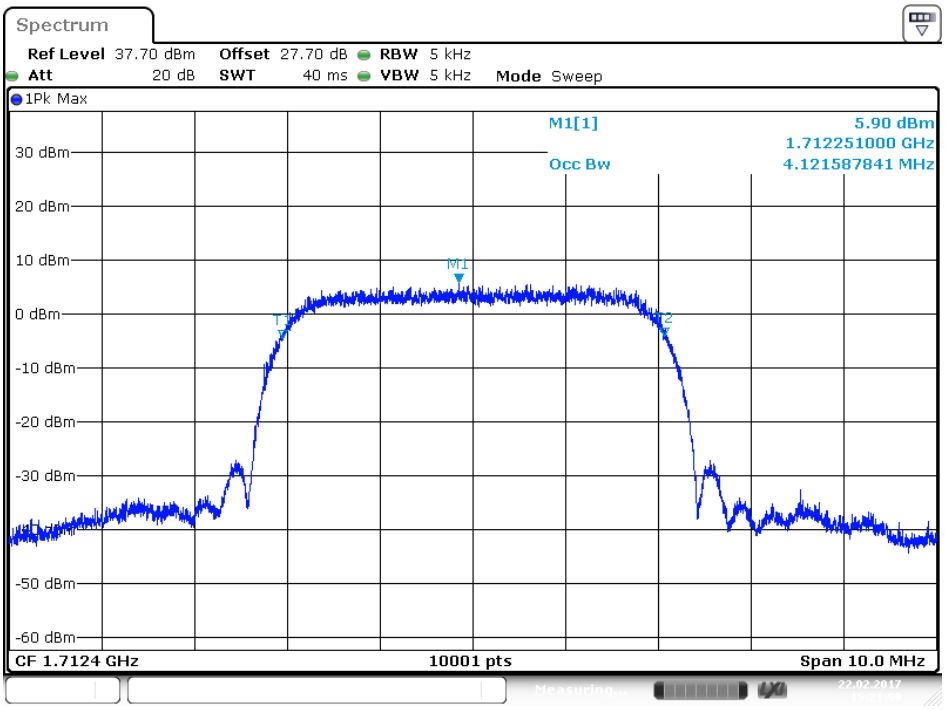
Frequency (MHz)	-26dB BW Measure Level (MHz)	99% BW Measure Level (MHz)	Limit (MHz)
1712.4	4.641	4.122	N/A
1732.6	4.662	4.124	N/A
1752.6	4.634	4.125	N/A

1712.4 MHz (-26dB BW)



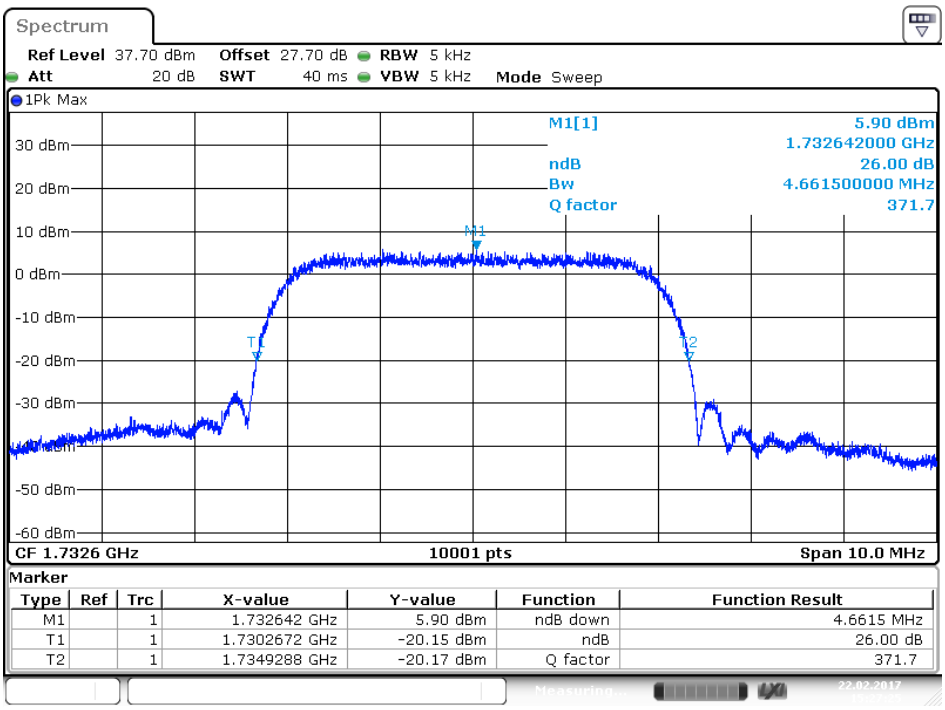
Date: 22.FEB.2017 15:28:34

1712.4 MHz (99% BW)



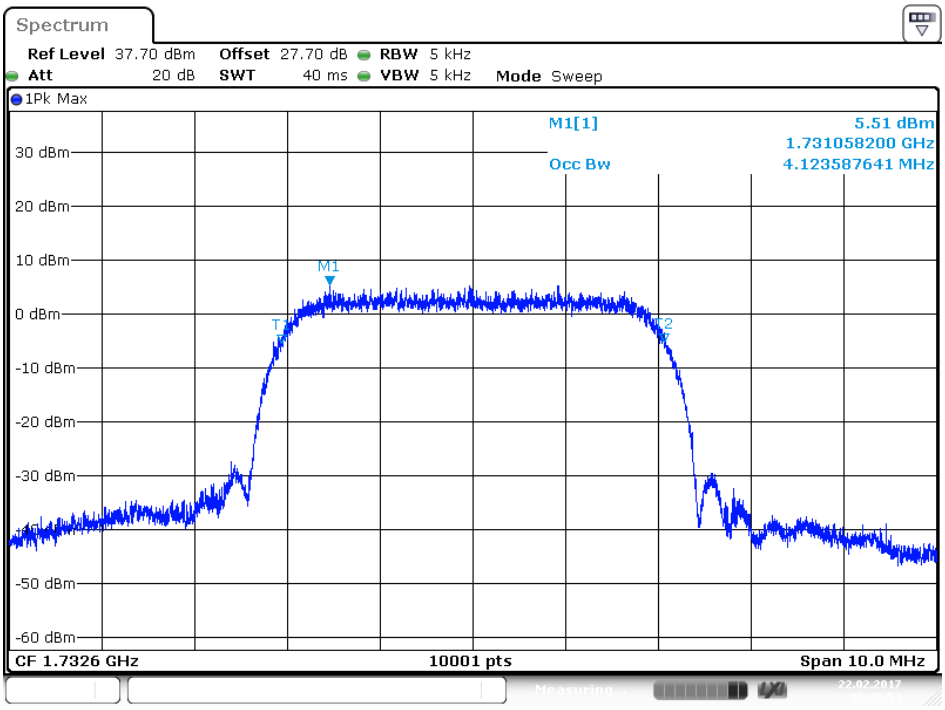
Date: 22.FEB.2017 15:22:00

1732.6 MHz (-26dB BW)



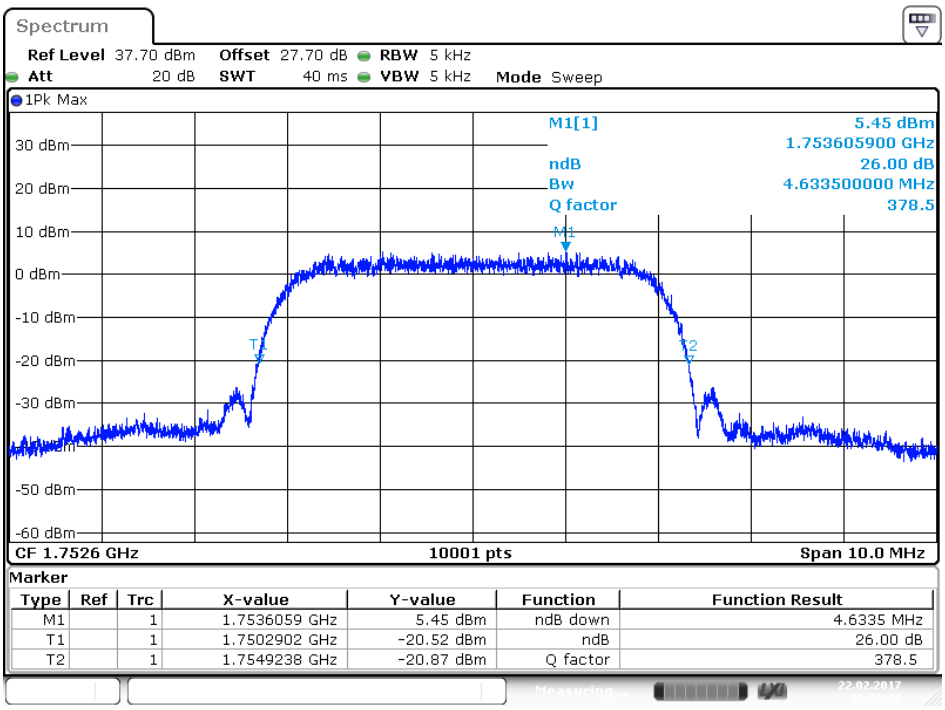
Date: 22.FEB.2017 15:27:26

1732.6 MHz (99% BW)



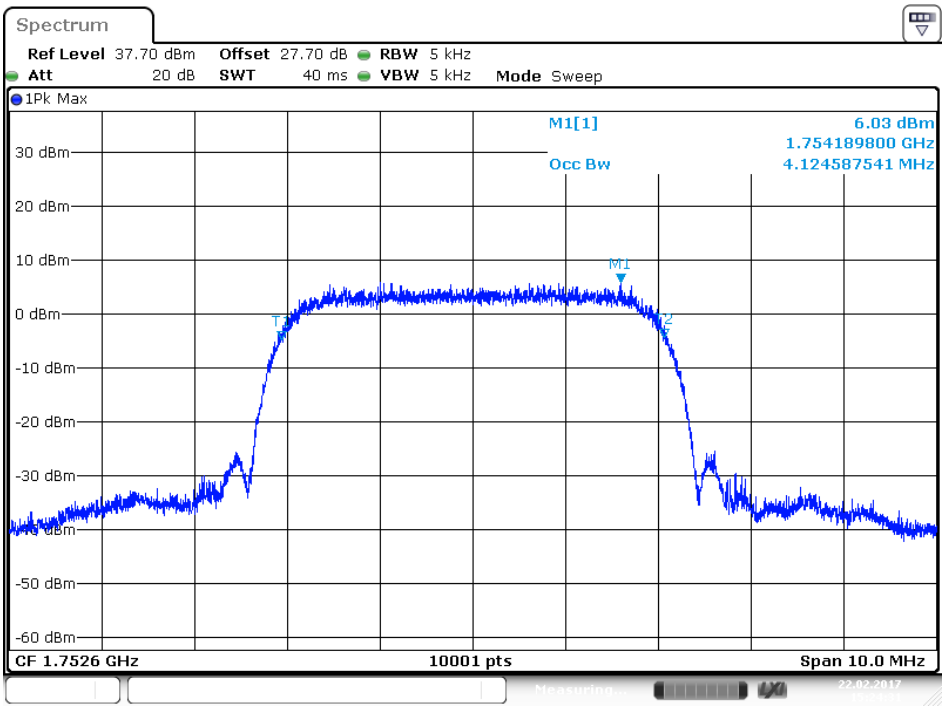
Date: 22.FEB.2017 15:22:54

1752.6MHz (-26dB BW)



Date: 22.FEB.2017 15:25:48

1752.6MHz (99% BW)



Date: 22.FEB.2017 15:24:31

5. Band Edge

5.1. Test Equipment

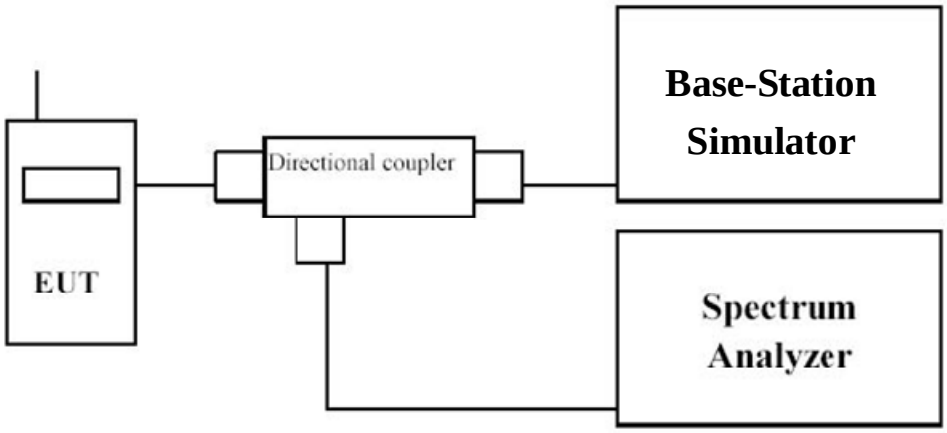
The following test equipment are used during the test:

Band edge / SR10-H

Instrument	Manufacturer	Model No.	Serial No.	Next Cal. Date
Signal & Spectrum Analyzer	R&S	FSV40	101049	2017/01/05
Multisystem UE Tester	Japan radio	NJZ-2000	ET00477	2017/09/19
Directional coupler	Agilent	778D-012	50550	2017/01/06

Note: All equipments that need to calibrate are with calibration period of 1 year.

5.2. Test Setup



5.3. Limits

(1) Fixed and Temporary Fixed Digital Stations: not less than 43 + log (P) dB

(2) Mobile Digital Stations: not less than 43 + log (P) dB at the channel edge and 55 + log (P) dB at 5.5 MHz from the channel edges

Sample Calculation:

Assume the EUT Output Power is 2 W = 33 dBm

43 + log (P) dB

43 + log (2) = 46 dB

33 dBm – 46 dB = -13 dBm

55 + log (2) = 58 dB

33 dBm – 58 dB = -25 dBm

5.4. Test Procedure

Conducted Measurement：

The EUT was set up for the rated peak power. The band edge was measured with Spectrum Analyzer with a resolution bandwidth of 100 kHz and video bandwidth of 300 kHz. All measurements were done at 2 channels: low and high operational frequency range.

The center frequency of spectrum is the band edge frequency and span is 7.5 MHz for test mode 1 (5 MHz bandwidth) and 15 MHz for test mode 2 (10 MHz bandwidth). The resolution bandwidth of spectrum is 100 kHz and video bandwidth of spectrum is 300 kHz.

Record the max trace plot into the test report.

Radiated Measurement：

EUT was placed on the turn-table which was rotated around 360 degrees to search the maximum radiation power and receiver antenna was rotated vertical and horizontal polarization to find the maximum polarization radiated power.

The EUT is replaced by a horn antenna connected to a signal generator tuned to the frequency of emission and level of signal generator adjusted to same level of emission. Both horizontal and vertical polarization of the antenna are set on measurement.

On any frequency, the limits shown are based on measuring equipment employing a peak detector function. The resolution bandwidth of spectrum analyzer is 100KHz. and video bandwidth is 300KHz.

The radiated band edge emission was calculated via the Correct factor, Reading Level, and Antenna gain as follows:

Emission Level = Reading Level + Correct Factor = S.G. – Cable Loss + Antenna Gain

5.5. Uncertainty

The measurement uncertainty

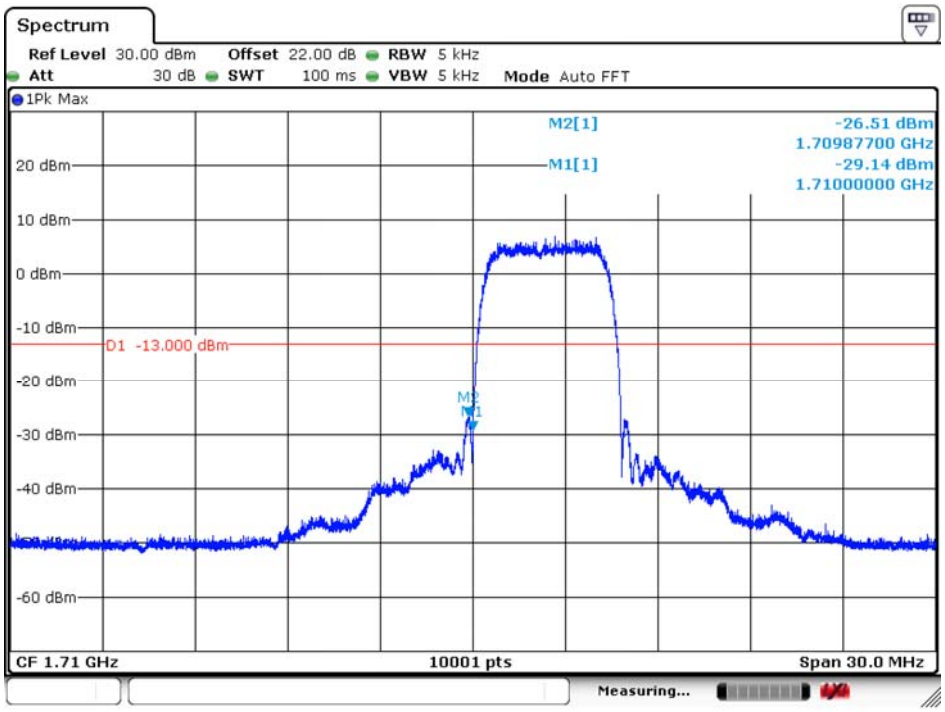
Conducted is defined as ±1.27dB

Radiated is defined as ±3.9dB

5.6. Test Result

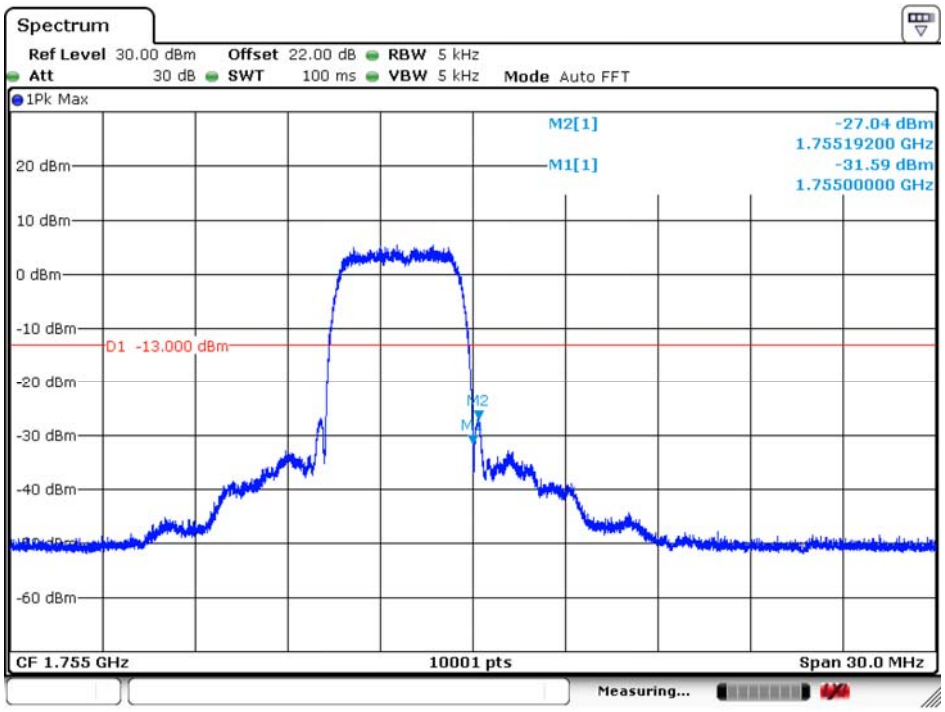
Product	LE920A4-NA		
Test Item	Band Edge		
Test Mode	Mode 1: WCDMA Band 4_Link mode		
Date of Test	2016/12/15	Test Site	SR10-H

Low Channel (1712.4 MHz)



Date: 15.DEC.2016 10:09:45

High Channel (1752.6 MHz)



Date: 15.DEC.2016 10:10:35

6. Conducted Spurious Emission

6.1. Test Equipment

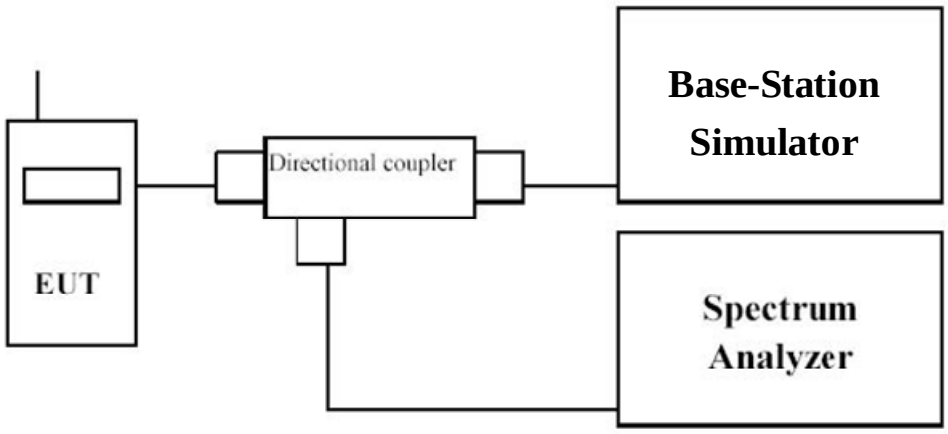
The following test equipments are used during the test:

Conducted Spurious Emission / SR10-H

Instrument	Manufacturer	Model No.	Serial No.	Next Cal. Date
Signal & Spectrum Analyzer	R&S	FSVA40	101455	2017/11/27
Multisystem UE Tester	Japan radio	NJZ-2000	ET00477	2017/09/19
Directional coupler	Agilent	778D	20402	2017/10/06

Note: All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.

6.2. Test Setup



6.3. Limits

(1) Fixed and Temporary Fixed Digital Stations: not less than 43 + log (P) dB
(2) Mobile Digital Stations: not less than 43 + log (P) dB at the channel edge and 55 + log (P) dB at 5.5 MHz from the channel edges

Sample Calculation:
Assume the EUT Output Power is 2 W = 33 dBm
43 + log (P) dB
43 + log (2) = 46 dB
33 dBm – 46 dB = -13 dBm

55 + log (2) = 58 dB
33 dBm – 58 dB = -25 dBm

6.4. Test Procedure

The EUT was set up for the rated peak power. The power was measured with R&S Spectrum Analyzer. All measurements were done at 3 channels: low, middle and high operational frequency range.

When the spectrum scanned from 30MHz to 27GHz, it connected to the 10dB attenuator to the carried frequency. The spectrum set RBW = 1MHz, VBW = 3MHz. and using peak detection mode.

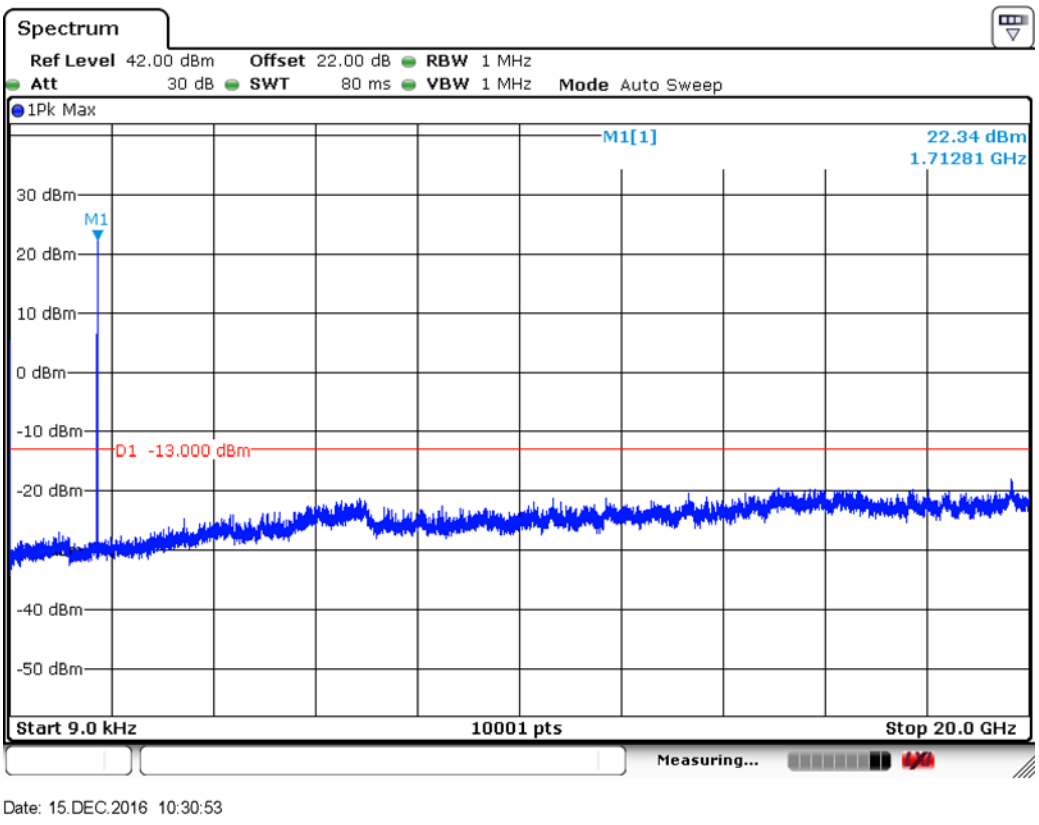
6.5. Uncertainty

The measurement uncertainty is defined as ±1.27 dB

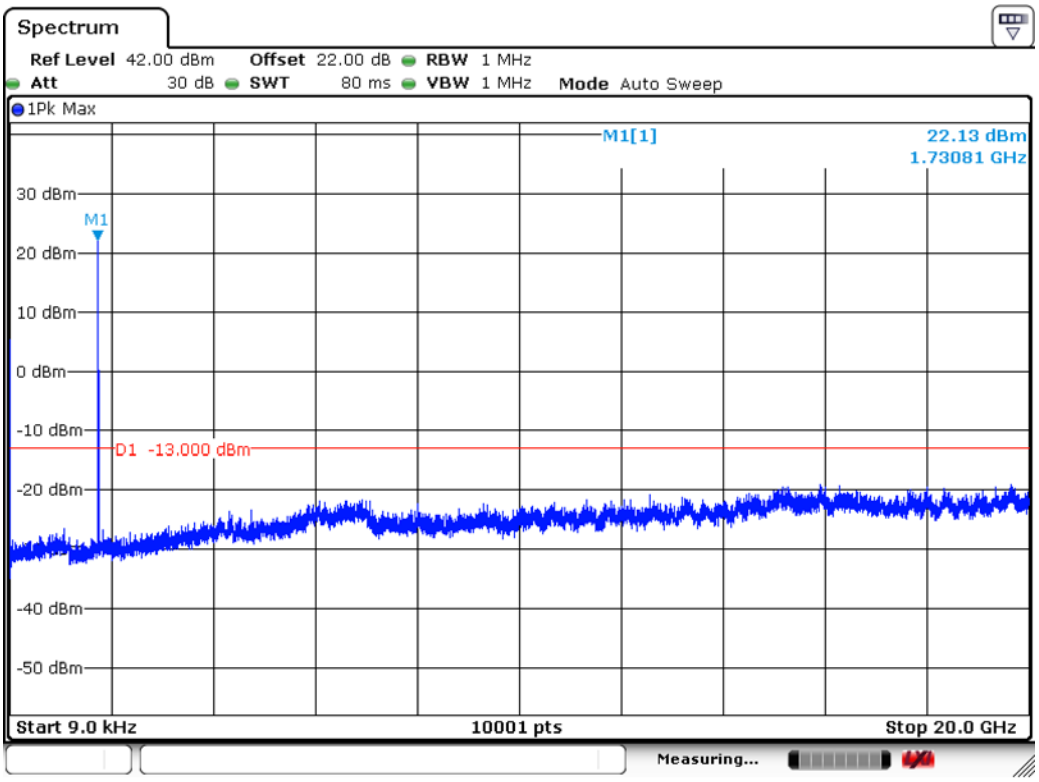
6.6. Test Result

Product	LE920A4-NA		
Test Item	Conducted Spurious Emission		
Test Mode	Mode 1: WCDMA Band 4_Link mode		
Date of Test	2016/12/15	Test Site	SR10-H

1712.4 MHz

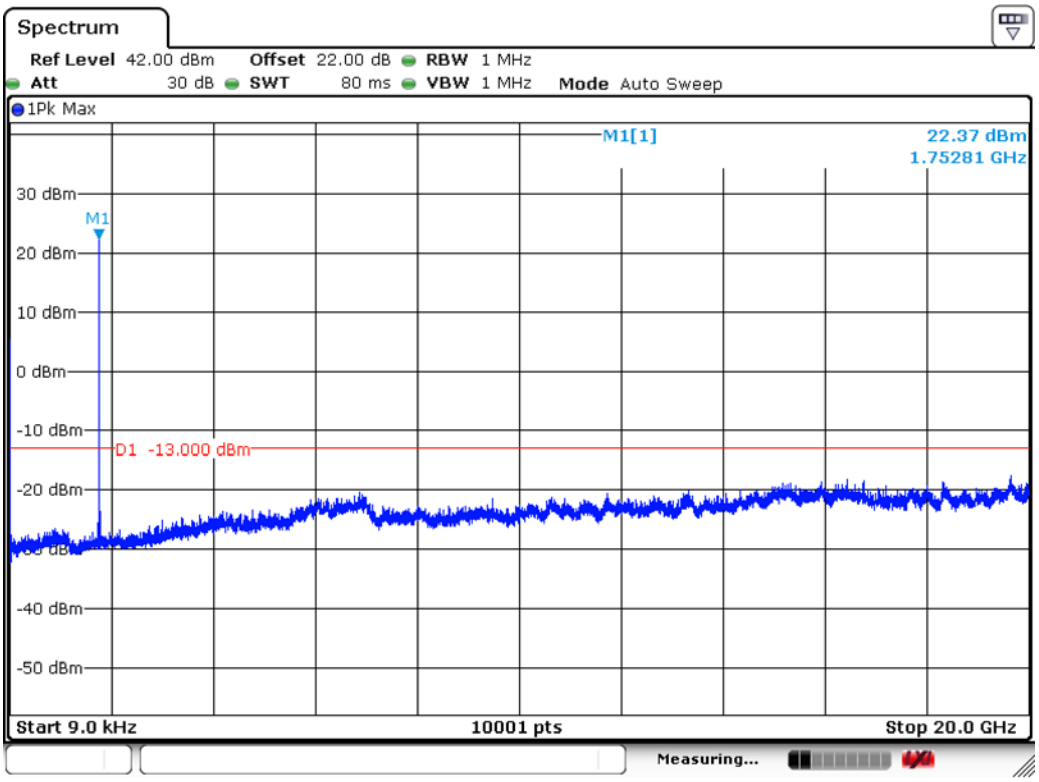


1732.6 MHz



Date: 15.DEC.2016 10:30:08

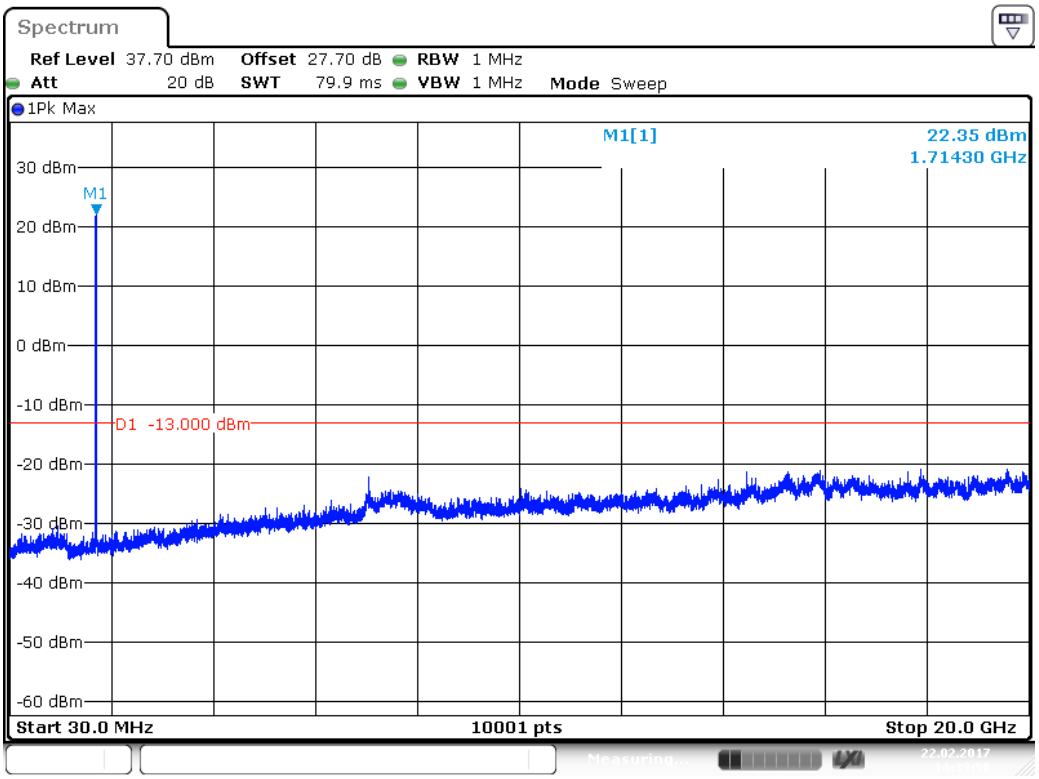
1752.6 MHz



Date: 15.DEC.2016 10:29:08

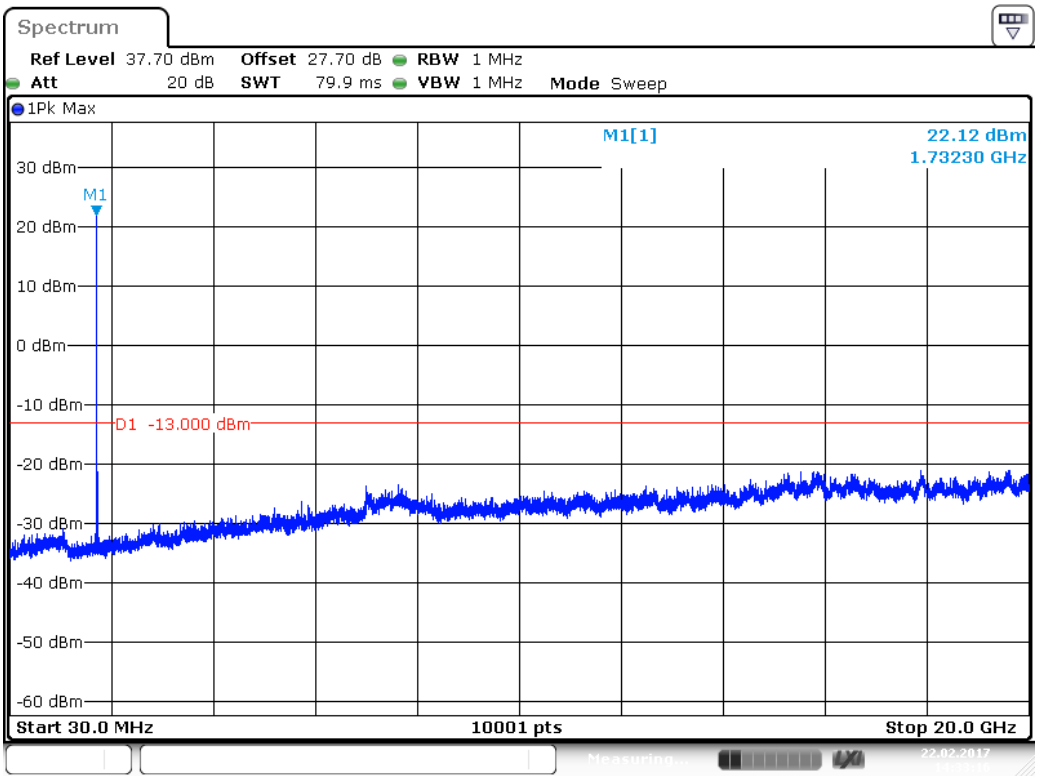
Product	LE920A4-NA		
Test Item	Conducted Spurious Emission		
Test Mode	Mode 3: WCDMA Band 4_HSUPA Mode		
Date of Test	2017/02/22	Test Site	SR10-H

1712.4 MHz



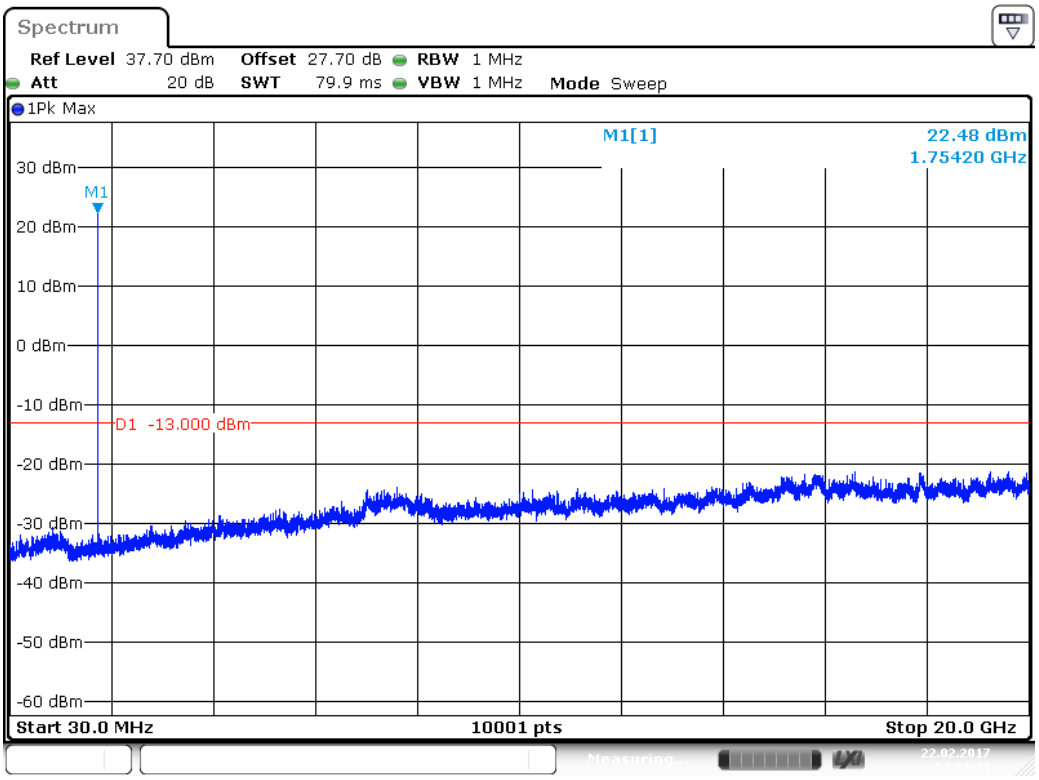
Date: 22.FEB.2017 14:33:58

1732.6 MHz



Date: 22.FEB.2017 14:33:16

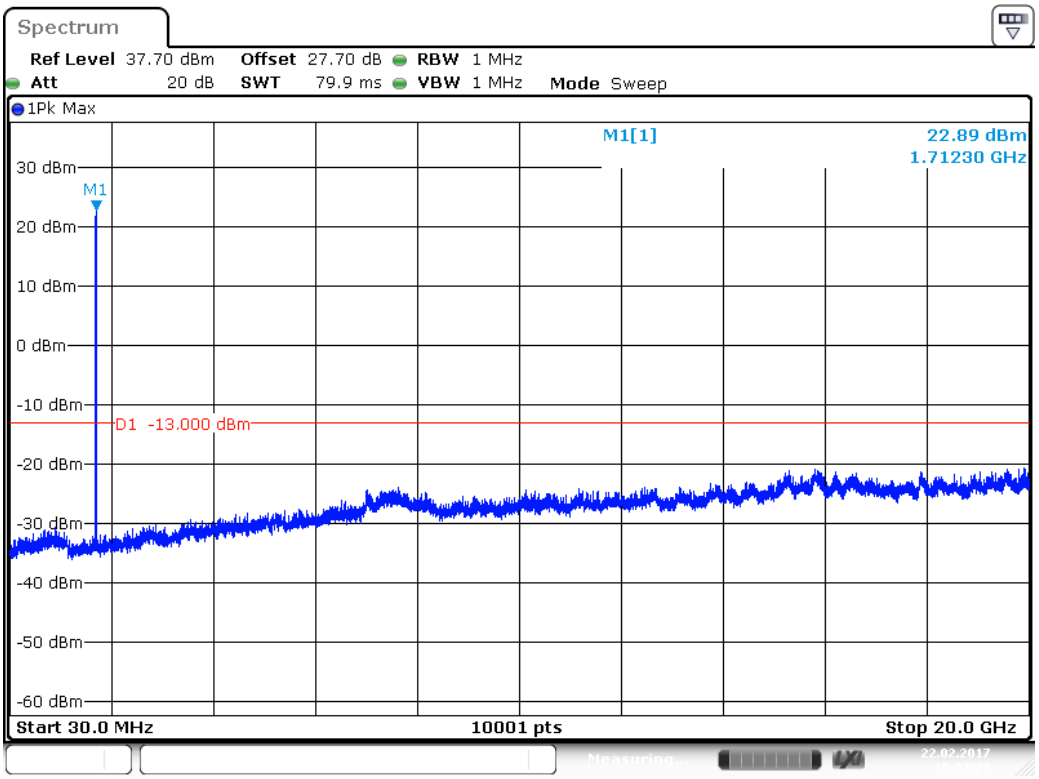
1752.6 MHz



Date: 22.FEB.2017 14:32:32

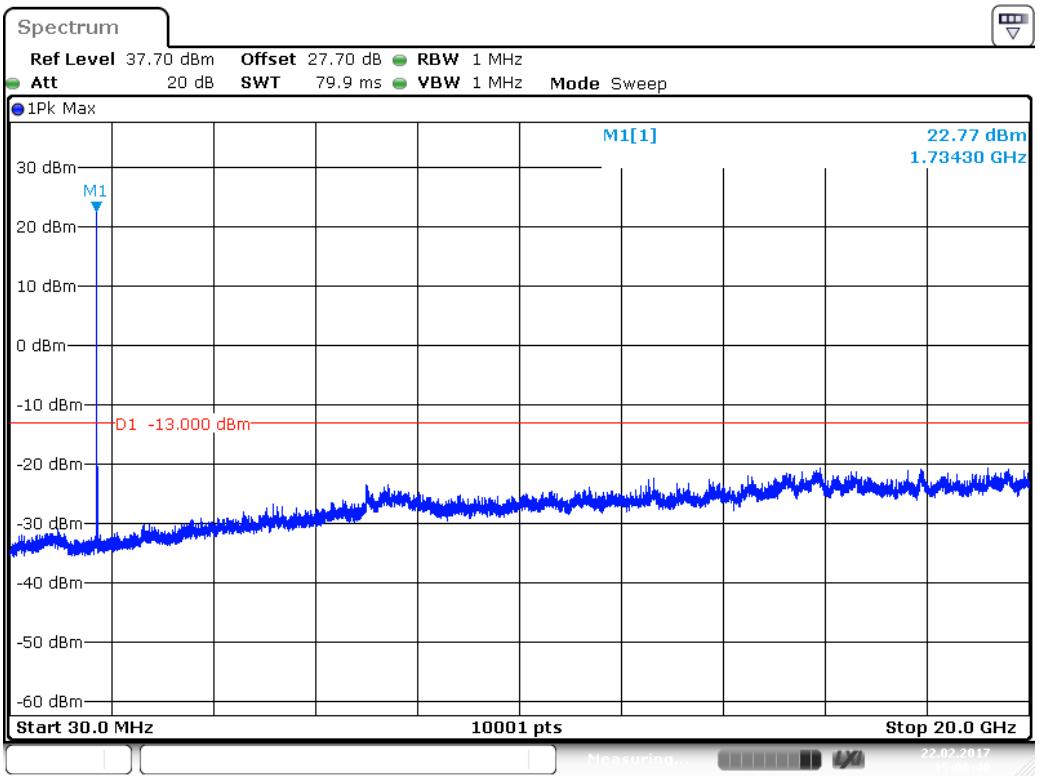
Product	LE920A4-NA		
Test Item	Conducted Spurious Emission		
Test Mode	Mode 4: WCDMA Band 4_HSDPA Mode		
Date of Test	2017/02/22	Test Site	SR10-H

1712.4 MHz



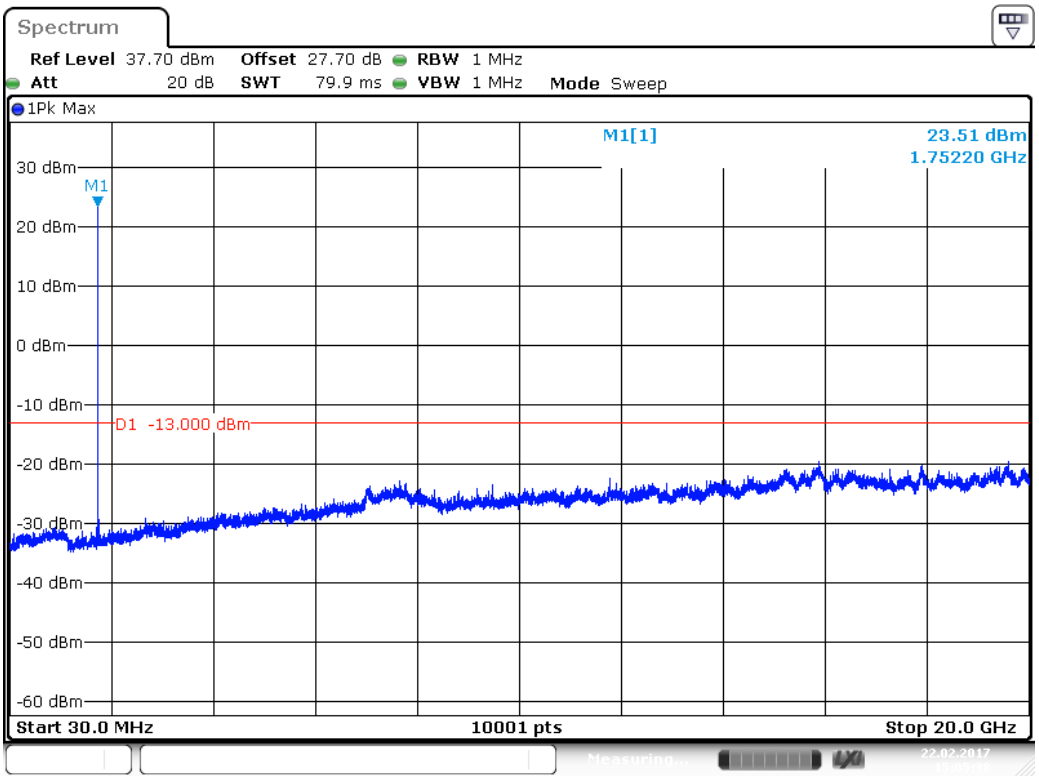
Date: 22.FEB.2017 15:07:24

1732.6 MHz



Date: 22.FEB.2017 15:06:40

1752.6 MHz



Date: 22.FEB.2017 15:05:38

7. Radiated Spurious Emission

7.1. Test Equipment

The following test equipments are used during the test:

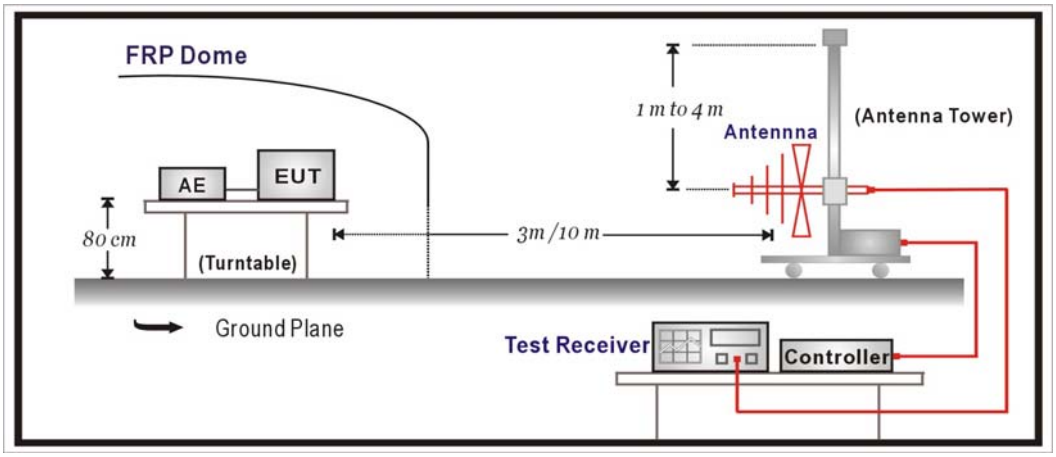
Radiated Emission / CB4-H

Instrument	Manufacturer	Model No.	Serial No	Next Cal. Date
Test Receiver	R&S	ESCS 30	836858/022	2018/01/14
Multisystem UE Tester	Japan radio	NJZ-2000	ET00477	2017/09/19
Signal & Spectrum Analyzer	R&S	FSVA40	101455	2017/11/27
Pre-Amplifier	DEKRA	AP-025C	CHM-0706049	2017/12/18
Bilog Antenna	Schaffner	CBL6112B	2797	2017/08/14
Pre-Amplifier	EMCI	EMC0031835	980233	2018/02/02
Horn Antenna	Schwarzbeck	BBHA 9120	D639	2017/06/29

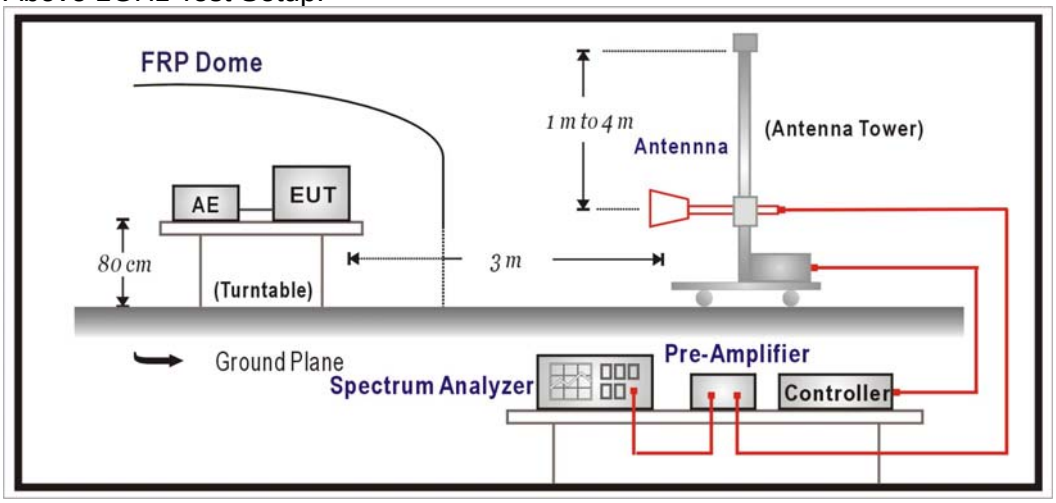
Note: All equipment that need to calibrate are with calibration period of 1 year.

7.2. Test Setup

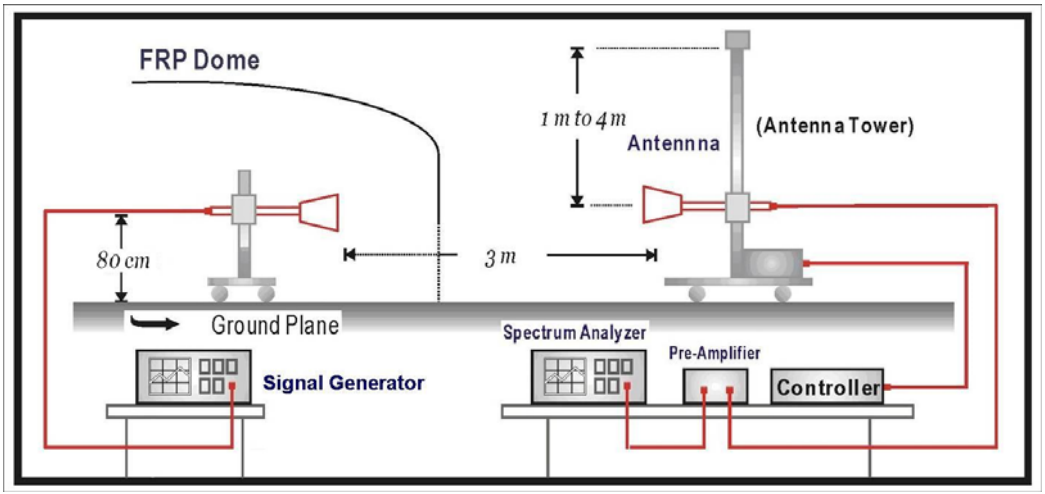
Under 1GHz Test Setup:



Above 1GHz Test Setup:



Substitution Measurement Setup:



7.3. Limits

(1) Fixed and Temporary Fixed Digital Stations: not less than 43 + log (P) dB.
(2) Mobile Digital Stations: not less than 43 + log (P) dB at the channel edge and 55 + log (P) dB at 5.5 MHz from the channel edges.

Sample Calculation:
Assume the EUT Output Power is 2 W = 33 dBm
43 + log (P) dB
43 + log (2) = 46 dB
33 dBm – 46 dB = -13 dBm

55 + log (2) = 58 dB
33 dBm – 58 dB = -25 dBm

7.4. Test Procedure

For measuring E.I.R.P peak power, EUT was placed on the turn-table which was rotated around 360 degrees to search the maximum radiation power and receiver antenna was rotated vertical and horizontal polarization to find the maximum polarization radiated power.

The EUT is replaced by a horn antenna connected to a signal generator tuned to the frequency of emission and level of signal generator adjusted to same level of emission. Both horizontal and vertical polarization of the antenna are set on measurement.
On any frequency, the limits shown are based on measuring equipment employing a peak detector function. The resolution bandwidth of spectrum analyzer is 1MHz. and video bandwidth is 3MHz.
The radiated E.I.R.P power was calculated via the Correct factor, Reading Level, and Antenna gain as follows:
E.I.R.P = Reading Level + Correct Factor = S.G. – Cable Loss + Antenna Gain

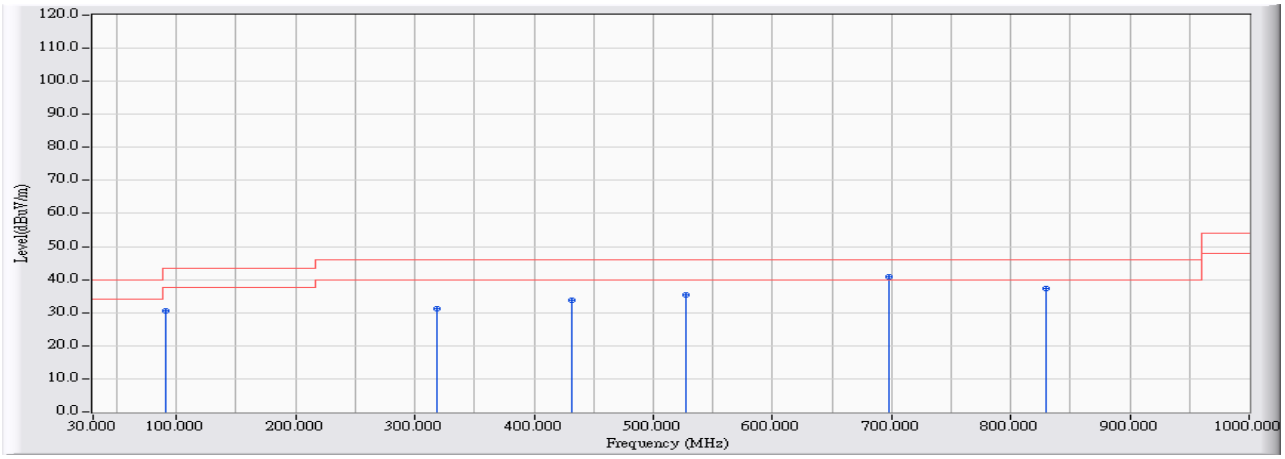
7.5. Uncertainty

The measurement uncertainty
30MHz～1GHz as ±3.19dB
1GHz～27GHz as ±3.9dB

7.6. Test Result

30 MHz - 1 GHz Spurious:

Site : CB4-H	**Time : 2017/01/20**
Limit : FCC_CLASS_B_03M_QP	**Margin : 6**
Probe : CB4-H_FCC_EFS_S2_30M-1GHz_1116 - HORIZONTAL	**Power : DC 3.8V**
EUT : LE920A4-NA	**Note : Mode 1: WCDMA Band 4_Link mode**

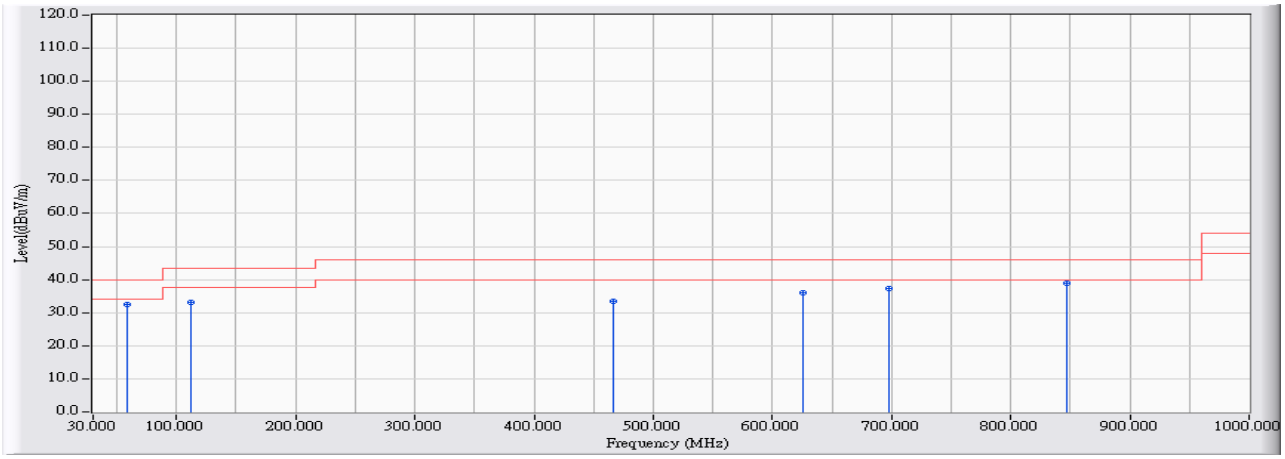


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		90.331	16.630	13.817	30.447	-13.053	43.500	QUASIPEAK
2		318.852	23.028	8.257	31.285	-14.715	46.000	QUASIPEAK
3		431.996	26.208	7.567	33.775	-12.225	46.000	QUASIPEAK
4		527.828	27.732	7.779	35.511	-10.489	46.000	QUASIPEAK
5	*	697.618	29.506	11.324	40.829	-5.171	46.000	QUASIPEAK
6		830.161	31.043	6.299	37.343	-8.657	46.000	QUASIPEAK

Note:

1. All Reading Levels are Quasi-Peak value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

Site : CB4-H	**Time : 2017/01/20**
Limit : FCC_CLASS_B_03M_QP	**Margin : 6**
Probe : CB4-H_FCC_EFS_S2_30M-1GHz_1116 - VERTICAL	**Power : DC 3.8V**
EUT : LE920A4-NA	**Note : Mode 1: WCDMA Band 4_Link mode**

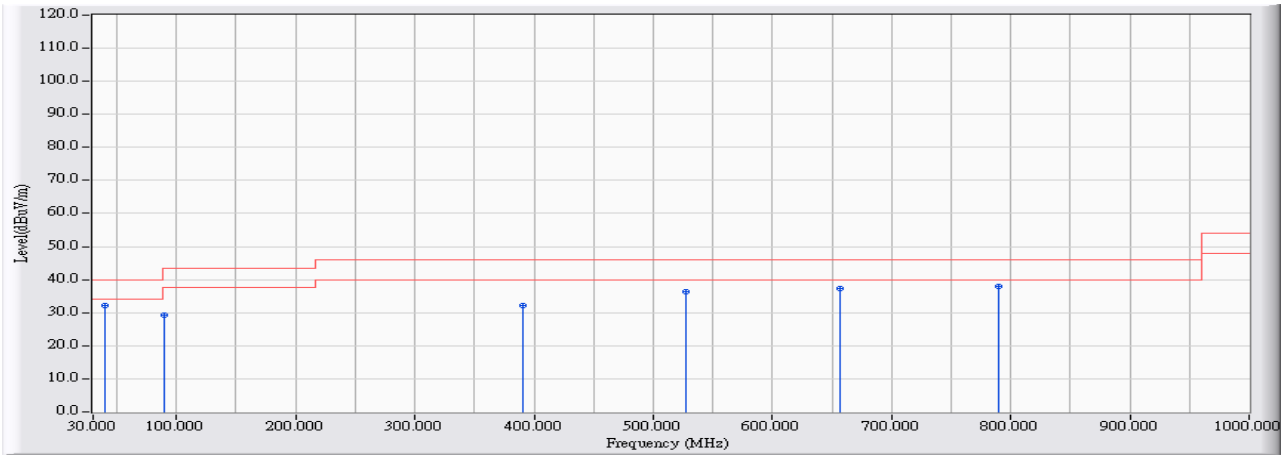


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		58.080	14.452	17.916	32.368	-7.632	40.000	QUASIPEAK
2		111.864	20.057	13.222	33.279	-10.221	43.500	QUASIPEAK
3		465.896	26.809	6.543	33.351	-12.649	46.000	QUASIPEAK
4		625.647	28.840	7.209	36.049	-9.951	46.000	QUASIPEAK
5		697.812	29.507	7.890	37.397	-8.603	46.000	QUASIPEAK
6	*	847.330	31.241	7.732	38.973	-7.027	46.000	QUASIPEAK

Note:

1. All Reading Levels are Quasi-Peak value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

Site : CB4-H	**Time : 2017/01/20**
Limit : FCC_CLASS_B_03M_QP	**Margin : 6**
Probe : CB4-H_FCC_EFS_S2_30M-1GHz_1116 - HORIZONTAL	**Power : DC 3.8V**
EUT : LE920A4-NA	**Note : Mode 2: WCDMA Band 4_Idle mode**

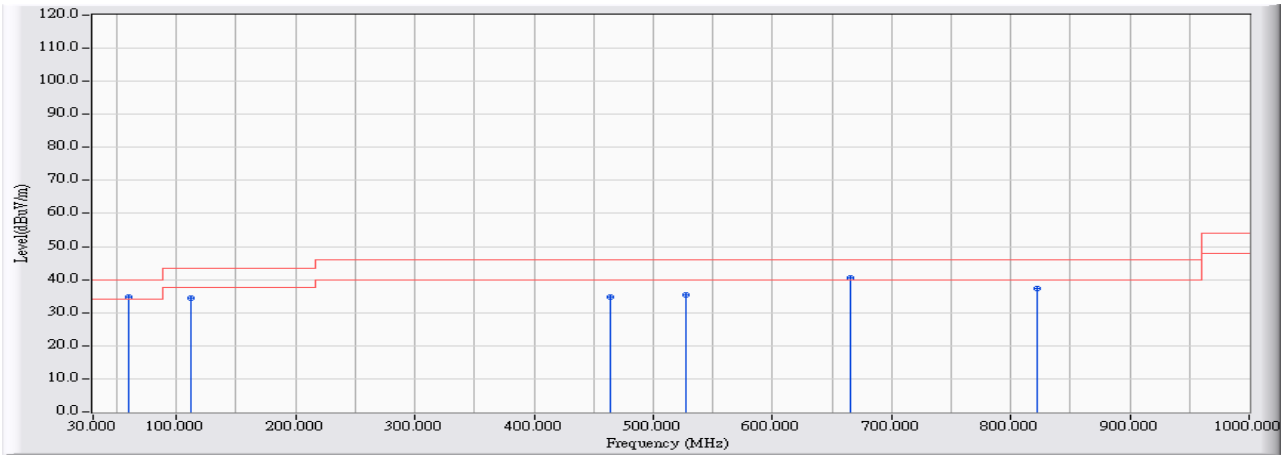


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	39.506	25.548	6.748	32.297	-7.703	40.000	QUASIPEAK
2		90.234	16.607	12.782	29.390	-14.110	43.500	QUASIPEAK
3		390.240	25.315	6.936	32.251	-13.749	46.000	QUASIPEAK
4		527.973	27.734	8.715	36.449	-9.551	46.000	QUASIPEAK
5		656.298	29.125	8.200	37.325	-8.675	46.000	QUASIPEAK
6		789.424	30.571	7.389	37.960	-8.040	46.000	QUASIPEAK

Note:

1. All Reading Levels are Quasi-Peak value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

Site : CB4-H	**Time : 2017/01/20**
Limit : FCC_CLASS_B_03M_QP	**Margin : 6**
Probe : CB4-H_FCC_EFS_S2_30M-1GHz_1116 - VERTICAL	**Power : DC 3.8V**
EUT : LE920A4-NA	**Note : Mode 2: WCDMA Band 4_Idle mode**

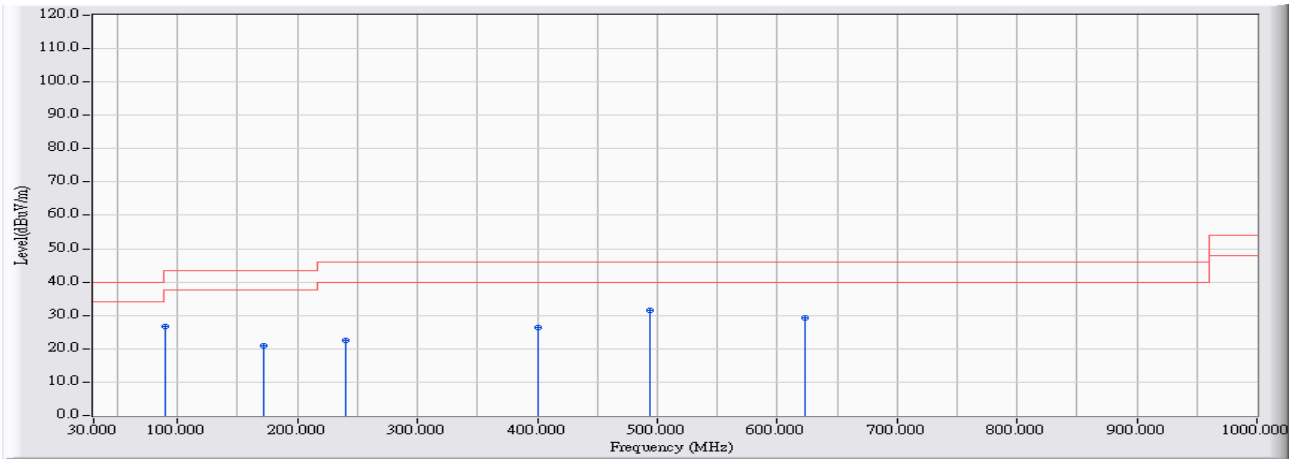


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	59.244	14.158	20.441	34.599	-5.401	40.000	QUASIPEAK
2		112.058	20.076	14.359	34.436	-9.064	43.500	QUASIPEAK
3		464.538	26.784	8.005	34.790	-11.210	46.000	QUASIPEAK
4		527.973	27.734	7.653	35.387	-10.613	46.000	QUASIPEAK
5		665.561	29.210	11.346	40.556	-5.444	46.000	QUASIPEAK
6		822.014	30.950	6.446	37.396	-8.604	46.000	QUASIPEAK

Note:

1. All Reading Levels are Quasi-Peak value.
2. “ * ”, means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

Site : CB4-H	**Time : 2017/02/22**
Limit : FCC_CLASS_B_03M_QP	**Margin : 6**
Probe : CB4-H_FCC_EFS_S2_30M-1GHz_1116 - HORIZONTAL	**Power : DC 3.8V**
EUT : LE920A4-NA	**Note : Mode 3: WCDMA Band 4_HSUPA Mode_ 1732.6MHz**

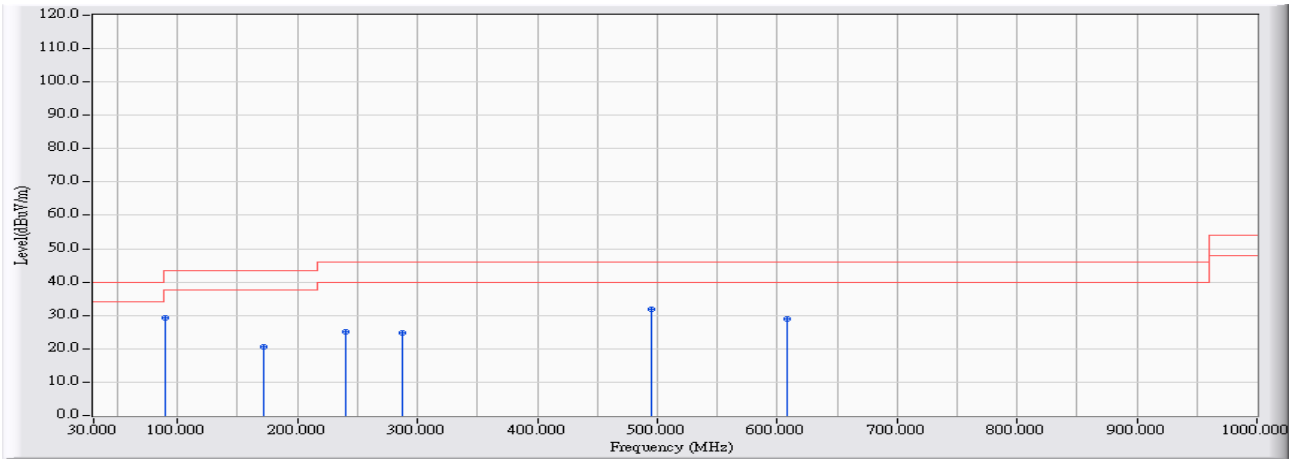


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		90.140	-25.489	52.087	26.598	-16.902	43.500	PEAK
2		172.105	-23.573	44.551	20.977	-22.523	43.500	PEAK
3		240.005	-20.838	43.419	22.582	-23.418	46.000	PEAK
4		400.055	-15.745	42.007	26.263	-19.737	46.000	PEAK
5	*	493.660	-14.139	45.721	31.582	-14.418	46.000	PEAK
6		623.155	-11.914	41.311	29.397	-16.603	46.000	PEAK

Note:

1. All Reading Levels are Quasi-Peak value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

Site : CB4-H	**Time : 2017/02/22**
Limit : FCC_CLASS_B_03M_QP	**Margin : 6**
Probe : CB4-H_FCC_EFS_S2_30M-1GHz_1116 - VERTICAL	**Power : DC 3.8V**
EUT : LE920A4-NA	**Note : Mode 3: WCDMA Band 4_HSUPA Mode_ 1732.6MHz**

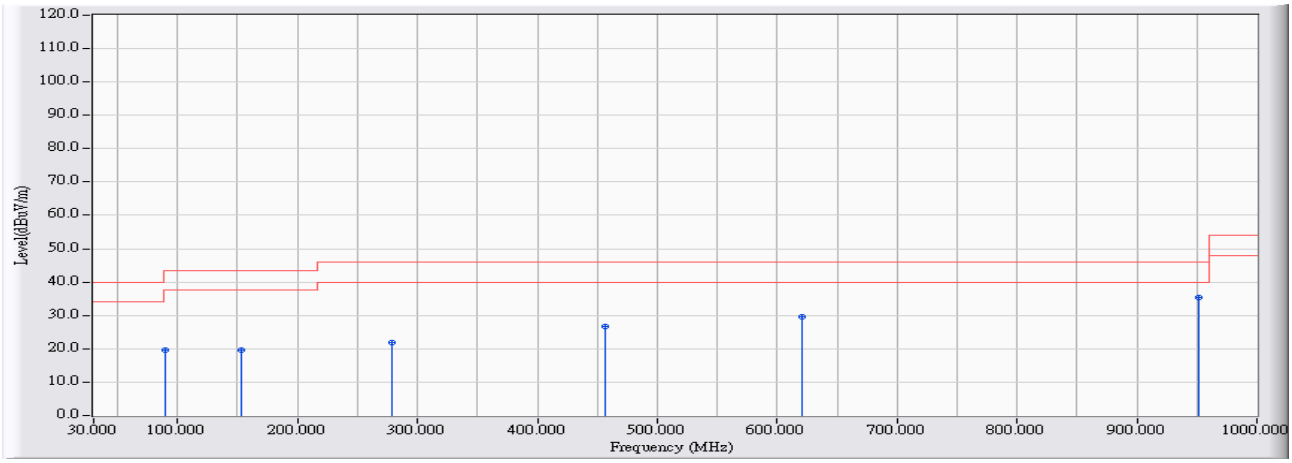


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		90.140	-25.489	54.791	29.302	-14.198	43.500	PEAK
2		172.105	-23.573	44.025	20.451	-23.049	43.500	PEAK
3		240.005	-20.838	45.788	24.951	-21.049	46.000	PEAK
4		288.020	-19.307	44.078	24.771	-21.229	46.000	PEAK
5	*	495.600	-14.111	46.075	31.964	-14.036	46.000	PEAK
6		608.120	-12.320	41.313	28.993	-17.007	46.000	PEAK

Note:

1. All Reading Levels are Quasi-Peak value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

Site : CB4-H	**Time : 2017/02/22**
Limit : FCC_CLASS_B_03M_QP	**Margin : 6**
Probe : CB4-H_FCC_EFS_S2_30M-1GHz_1116 - HORIZONTAL	**Power : DC 3.8V**
EUT : LE920A4-NA	**Note : Mode 3: WCDMA Band 4_HSUPA Mode_ 1732.6MHz**

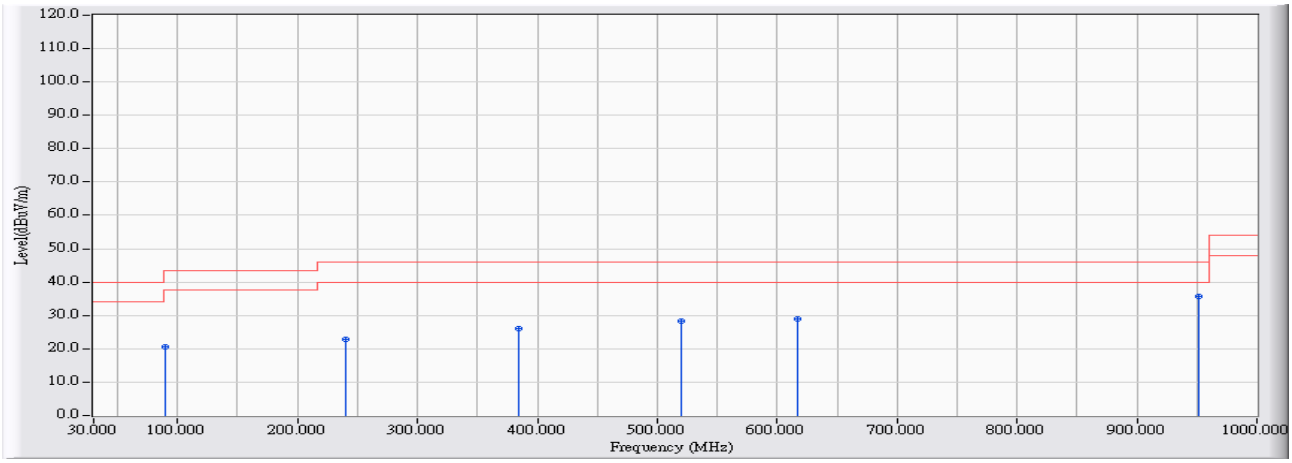


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		90.140	-25.489	45.272	19.783	-23.717	43.500	PEAK
2		152.705	-22.392	42.143	19.751	-23.749	43.500	PEAK
3		279.290	-19.388	41.237	21.849	-24.151	46.000	PEAK
4		456.315	-14.545	41.214	26.670	-19.330	46.000	PEAK
5		620.245	-11.828	41.271	29.444	-16.556	46.000	PEAK
6	*	951.015	-7.173	42.585	35.412	-10.588	46.000	PEAK

Note:

1. All Reading Levels are Quasi-Peak value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

Site : CB4-H	**Time : 2017/02/22**
Limit : FCC_CLASS_B_03M_QP	**Margin : 6**
Probe : CB4-H_FCC_EFS_S2_30M-1GHz_1116 - VERTICAL	**Power : DC 3.8V**
EUT : LE920A4-NA	**Note : Mode 3: WCDMA Band 4_HSUPA Mode_ 1732.6MHz**

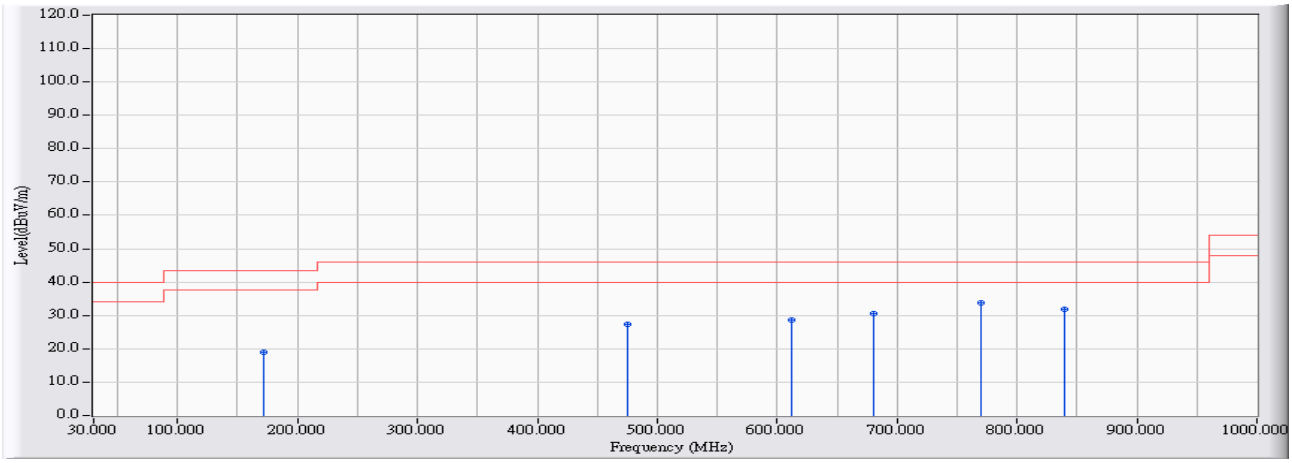


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		90.140	-25.489	46.060	20.571	-22.929	43.500	PEAK
2		240.005	-20.838	43.565	22.728	-23.272	46.000	PEAK
3		384.050	-16.465	42.659	26.195	-19.805	46.000	PEAK
4		519.365	-13.558	41.859	28.301	-17.699	46.000	PEAK
5		616.850	-11.947	40.986	29.039	-16.961	46.000	PEAK
6	*	951.015	-7.173	42.894	35.721	-10.279	46.000	PEAK

Note:

1. All Reading Levels are Quasi-Peak value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

Site : CB4-H	**Time : 2017/02/22**
Limit : FCC_CLASS_B_03M_QP	**Margin : 6**
Probe : CB4-H_FCC_EFS_S2_30M-1GHz_1116 - HORIZONTAL	**Power : DC 3.8V**
EUT : LE920A4-NA	**Note : Mode 4: WCDMA Band 4_HSDPA Mode_ 1732.6MHz**

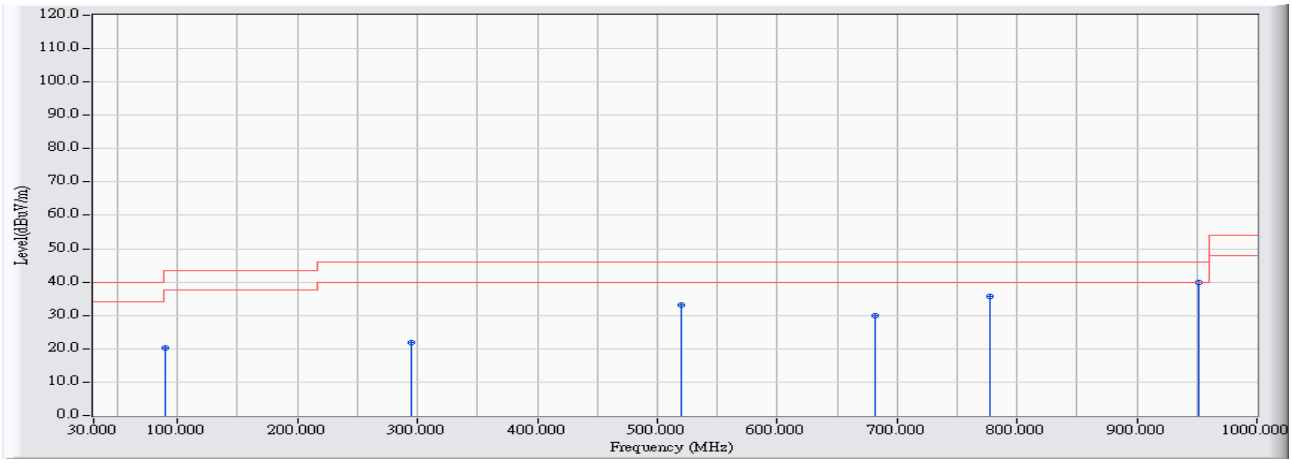


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		172.105	-23.573	42.562	18.988	-24.512	43.500	PEAK
2		475.230	-14.540	41.728	27.188	-18.812	46.000	PEAK
3		612.485	-12.131	40.901	28.770	-17.230	46.000	PEAK
4		680.870	-11.362	42.050	30.689	-15.311	46.000	PEAK
5	*	769.625	-10.471	44.230	33.759	-12.241	46.000	PEAK
6		839.465	-9.193	40.950	31.757	-14.243	46.000	PEAK

Note:

1. All Reading Levels are Quasi-Peak value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

Site : CB4-H	**Time : 2017/02/22**
Limit : FCC_CLASS_B_03M_QP	**Margin : 6**
Probe : CB4-H_FCC_EFS_S2_30M-1GHz_1116 - VERTICAL	**Power : DC 3.8V**
EUT : LE920A4-NA	**Note : Mode 4: WCDMA Band 4_HSDPA Mode_ 1732.6MHz**

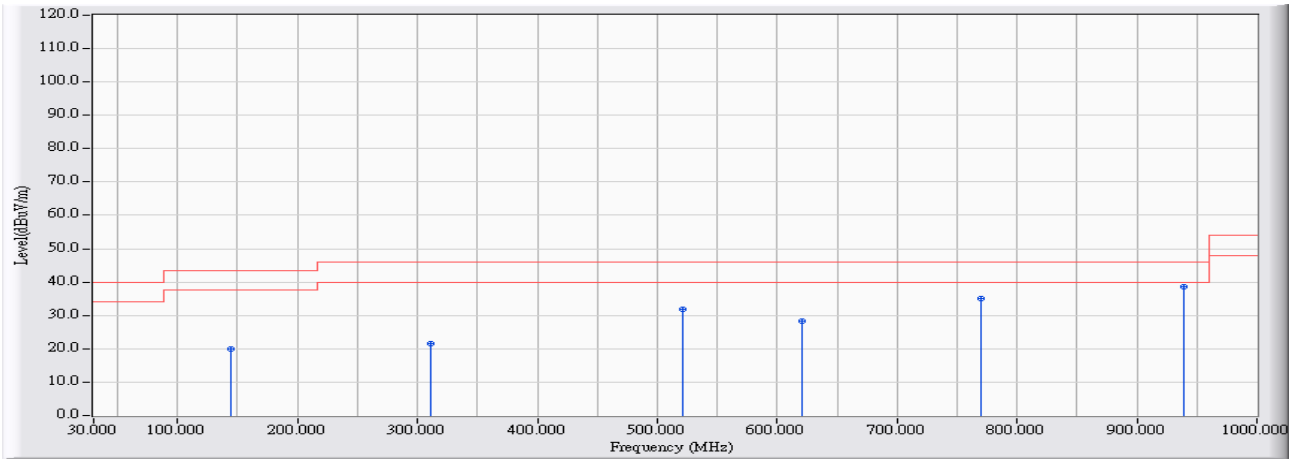


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		90.140	-25.489	45.772	20.283	-23.217	43.500	PEAK
2		294.810	-19.351	41.221	21.870	-24.130	46.000	PEAK
3		520.335	-13.569	46.742	33.172	-12.828	46.000	PEAK
4		681.355	-11.378	41.404	30.025	-15.975	46.000	PEAK
5		777.385	-9.792	45.572	35.781	-10.219	46.000	PEAK
6	*	951.015	-7.173	47.210	40.037	-5.963	46.000	PEAK

Note:

1. All Reading Levels are Quasi-Peak value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

Site : CB4-H	**Time : 2017/02/22**
Limit : FCC_CLASS_B_03M_QP	**Margin : 6**
Probe : CB4-H_FCC_EFS_S2_30M-1GHz_1116 - HORIZONTAL	**Power : DC 3.8V**
EUT : LE920A4-NA	**Note : Mode 4: WCDMA Band 4_HSDPA Mode_ 1732.6MHz**

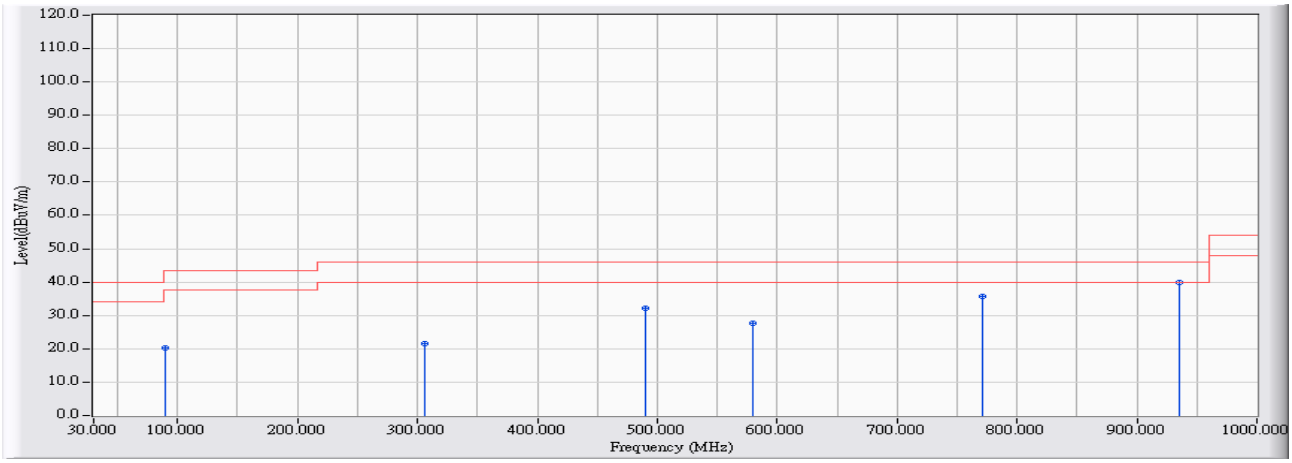


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		143.975	-21.836	41.673	19.837	-23.663	43.500	PEAK
2		311.300	-19.197	40.759	21.563	-24.437	46.000	PEAK
3		520.820	-13.583	45.427	31.845	-14.155	46.000	PEAK
4		620.730	-11.831	40.301	28.471	-17.529	46.000	PEAK
5		770.110	-10.439	45.645	35.206	-10.794	46.000	PEAK
6	*	938.890	-7.384	45.916	38.532	-7.468	46.000	PEAK

Note:

1. All Reading Levels are Quasi-Peak value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

Site : CB4-H	**Time : 2017/02/22**
Limit : FCC_CLASS_B_03M_QP	**Margin : 6**
Probe : CB4-H_FCC_EFS_S2_30M-1GHz_1116 - VERTICAL	**Power : DC 3.8V**
EUT : LE920A4-NA	**Note : Mode 4: WCDMA Band 4_HSDPA Mode_ 1732.6MHz**



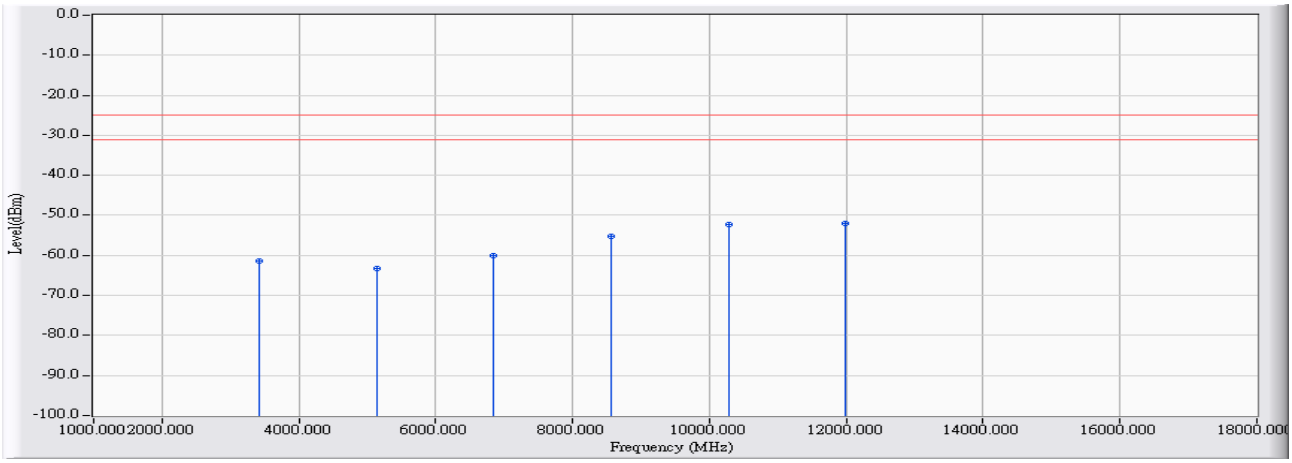
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		90.140	-25.489	45.827	20.338	-23.162	43.500	PEAK
2		305.480	-19.316	40.750	21.435	-24.565	46.000	PEAK
3		490.265	-14.190	46.523	32.332	-13.668	46.000	PEAK
4		579.505	-13.383	41.016	27.633	-18.367	46.000	PEAK
5		770.595	-10.396	46.045	35.649	-10.351	46.000	PEAK
6	*	935.495	-7.712	47.677	39.965	-6.035	46.000	PEAK

Note:

1. All Reading Levels are Quasi-Peak value.
2. “ * ”, means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

Harmonic & Spurious:

Site : CB4-H	**Time : 2017/01/10**
Limit : FCC_Part27(outband)_00M_PK	**Margin : 6**
Probe : CB4-H_CE_Sub_B433_1-18GHz_3M_1216-2 - HORIZONTAL	**Power : DC 3.8V**
EUT : LE920A4-NA	**Note : Mode 1: WCDMA Band 4_Link mode _1712.4**

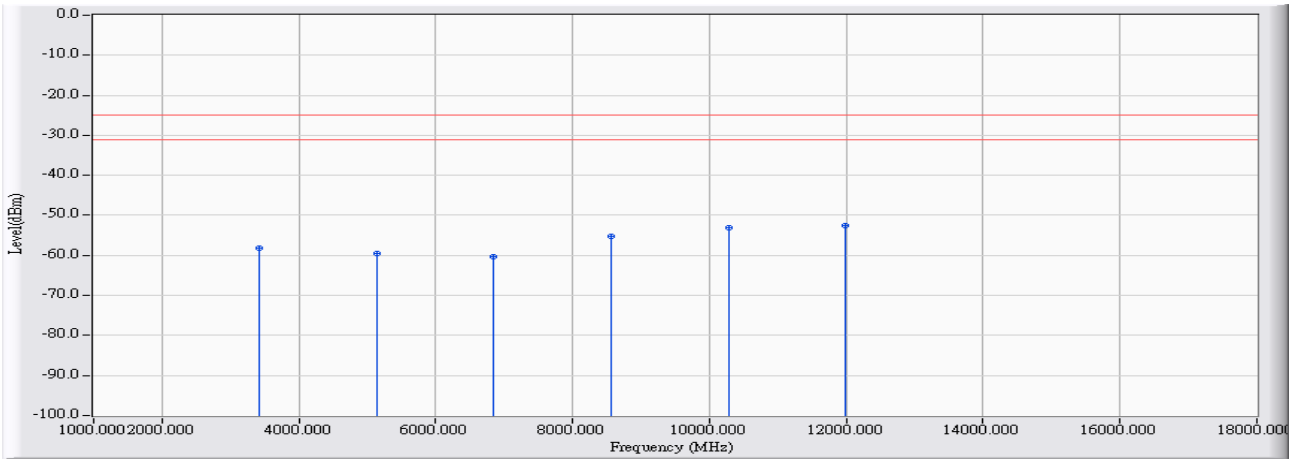


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBm)	Measure Level (dBm)	Margin (dB)	Limit (dBm)	Detector Type
1		3424.800	-1.985	-59.540	-61.525	-36.525	-25.000	PEAK
2		5137.200	0.897	-64.170	-63.272	-38.272	-25.000	PEAK
3		6849.600	5.257	-65.210	-59.953	-34.953	-25.000	PEAK
4		8562.000	11.680	-66.800	-55.119	-30.119	-25.000	PEAK
5		10274.400	15.897	-68.140	-52.244	-27.244	-25.000	PEAK
6	*	11986.800	16.048	-68.030	-51.982	-26.982	-25.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB4-H	**Time : 2017/01/10**
Limit : FCC_Part27(outband)_00M_PK	**Margin : 6**
Probe : CB4-H_CE_Sub_B433_1-18GHz_3M_1216-2 - VERTICAL	**Power : DC 3.8V**
EUT : LE920A4-NA	**Note : Mode 1: WCDMA Band 4_Link mode _1712.4**

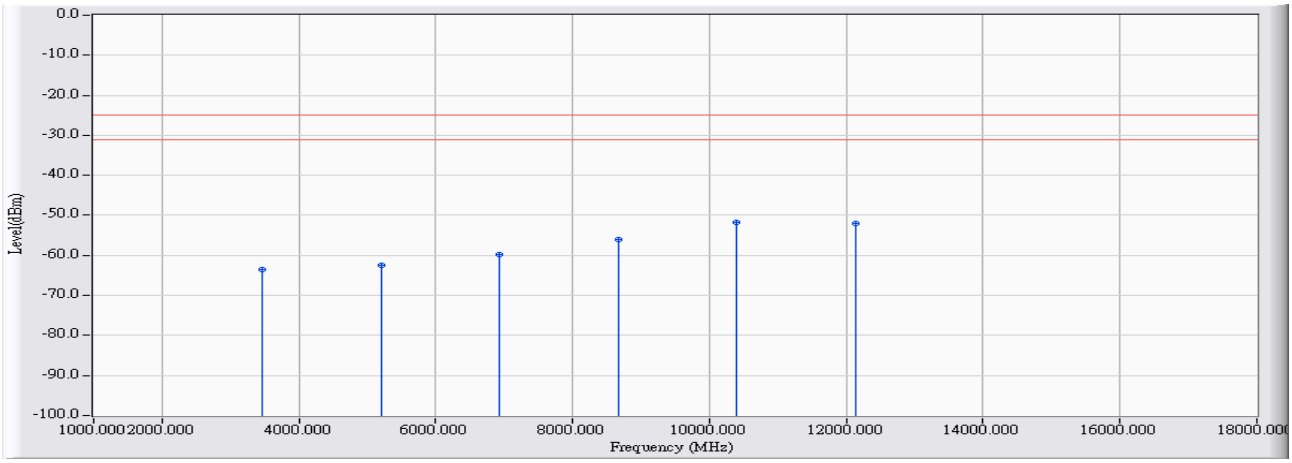


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBm)	Measure Level (dBm)	Margin (dB)	Limit (dBm)	Detector Type
1		3424.800	-2.226	-55.950	-58.176	-33.176	-25.000	PEAK
2		5137.200	0.632	-60.020	-59.387	-34.387	-25.000	PEAK
3		6849.600	5.092	-65.510	-60.419	-35.419	-25.000	PEAK
4		8562.000	11.541	-66.810	-55.268	-30.268	-25.000	PEAK
5		10274.400	15.733	-68.840	-53.108	-28.108	-25.000	PEAK
6	*	11986.800	16.141	-68.630	-52.489	-27.489	-25.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB4-H	**Time : 2017/01/10**
Limit : FCC_Part27(outband)_00M_PK	**Margin : 6**
Probe : CB4-H_CE_Sub_B433_1-18GHz_3M_1216-2 - HORIZONTAL	**Power : DC 3.8V**
EUT : LE920A4-NA	**Note : Mode 1: WCDMA Band 4_Link mode _1732.6**

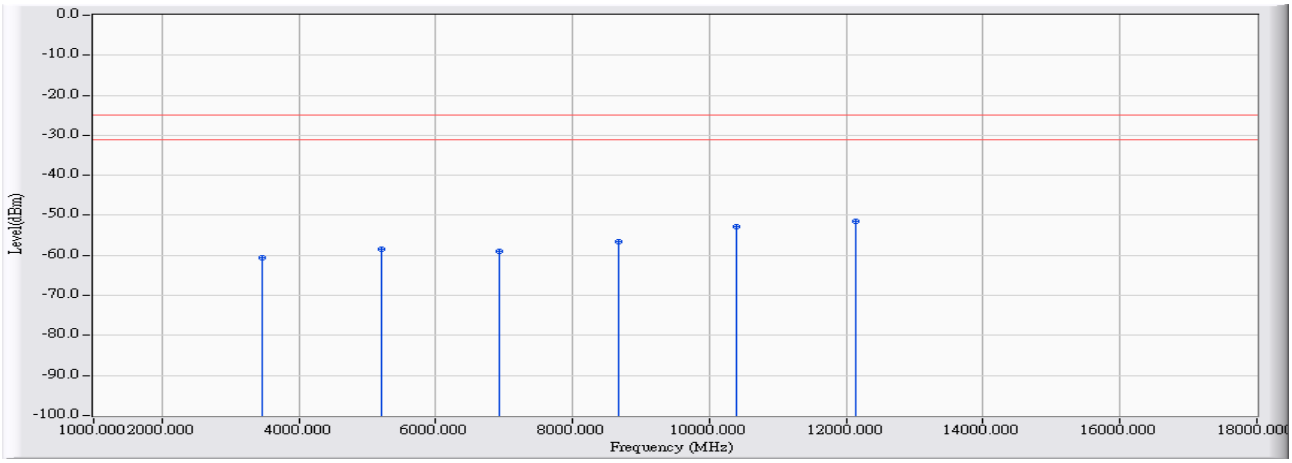


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBm)	Measure Level (dBm)	Margin (dB)	Limit (dBm)	Detector Type
1		3465.200	-1.932	-61.480	-63.412	-38.412	-25.000	PEAK
2		5197.800	0.836	-63.270	-62.434	-37.434	-25.000	PEAK
3		6930.400	5.741	-65.600	-59.859	-34.859	-25.000	PEAK
4		8663.000	11.752	-67.660	-55.909	-30.909	-25.000	PEAK
5	*	10395.600	16.458	-68.250	-51.792	-26.792	-25.000	PEAK
6		12128.200	16.859	-68.740	-51.881	-26.881	-25.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB4-H	**Time : 2017/01/10**
Limit : FCC_Part27(outband)_00M_PK	**Margin : 6**
Probe : CB4-H_CE_Sub_B433_1-18GHz_3M_1216-2 - VERTICAL	**Power : DC 3.8V**
EUT : LE920A4-NA	**Note : Mode 1: WCDMA Band 4_Link mode _1732.6**

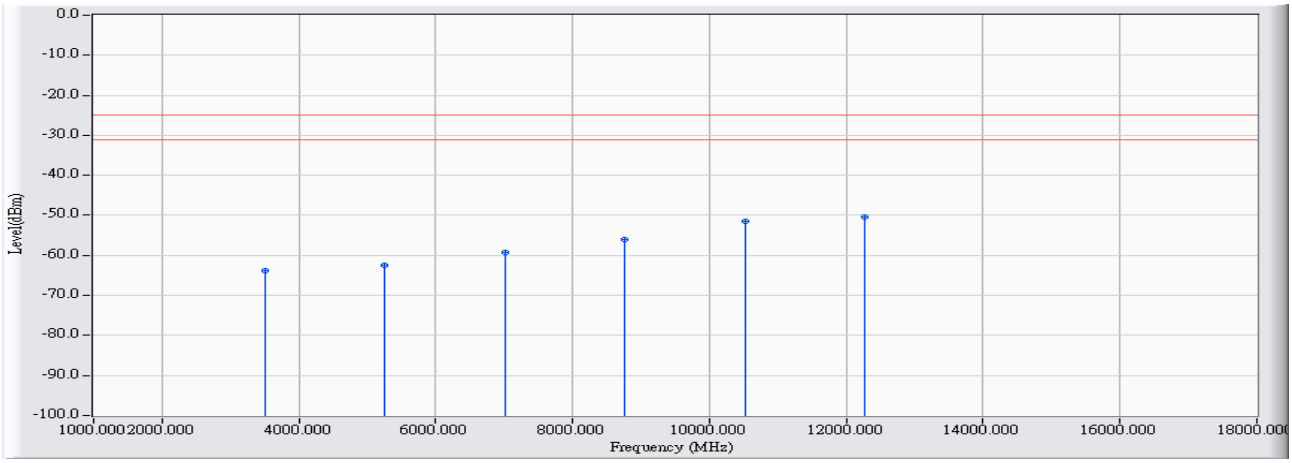


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBm)	Measure Level (dBm)	Margin (dB)	Limit (dBm)	Detector Type
1		3465.200	-2.192	-58.520	-60.713	-35.713	-25.000	PEAK
2		5197.800	0.559	-59.120	-58.561	-33.561	-25.000	PEAK
3		6930.400	5.572	-64.430	-58.857	-33.857	-25.000	PEAK
4		8663.000	11.705	-68.310	-56.606	-31.606	-25.000	PEAK
5		10395.600	16.624	-69.350	-52.726	-27.726	-25.000	PEAK
6	*	12128.200	16.828	-68.290	-51.462	-26.462	-25.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB4-H	**Time : 2017/01/10**
Limit : FCC_Part27(outband)_00M_PK	**Margin : 6**
Probe : CB4-H_CE_Sub_B433_1-18GHz_3M_1216-2 - HORIZONTAL	**Power : DC 3.8V**
EUT : LE920A4-NA	**Note : Mode 1: WCDMA Band 4_Link mode _1752.6**

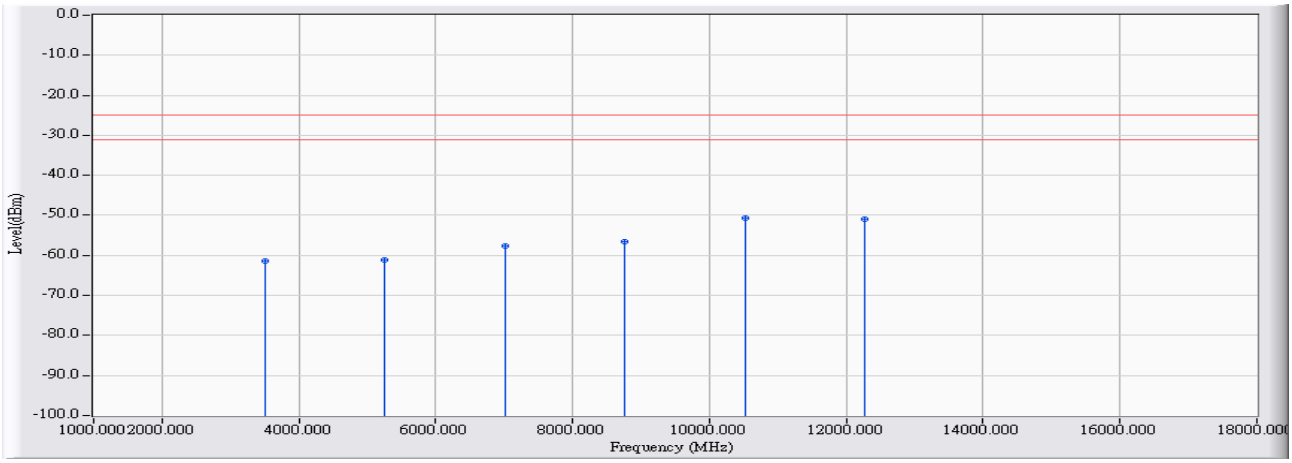


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBm)	Measure Level (dBm)	Margin (dB)	Limit (dBm)	Detector Type
1		3505.200	-1.880	-62.040	-63.920	-38.920	-25.000	PEAK
2		5257.800	0.831	-63.390	-62.559	-37.559	-25.000	PEAK
3		7010.400	6.237	-65.460	-59.222	-34.222	-25.000	PEAK
4		8763.000	11.856	-67.970	-56.114	-31.114	-25.000	PEAK
5		10515.600	16.925	-68.440	-51.515	-26.515	-25.000	PEAK
6	*	12268.200	17.704	-68.190	-50.486	-25.486	-25.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB4-H	**Time : 2017/01/10**
Limit : FCC_Part27(outband)_00M_PK	**Margin : 6**
Probe : CB4-H_CE_Sub_B433_1-18GHz_3M_1216-2 - VERTICAL	**Power : DC 3.8V**
EUT : LE920A4-NA	**Note : Mode 1: WCDMA Band 4_Link mode _1752.6**

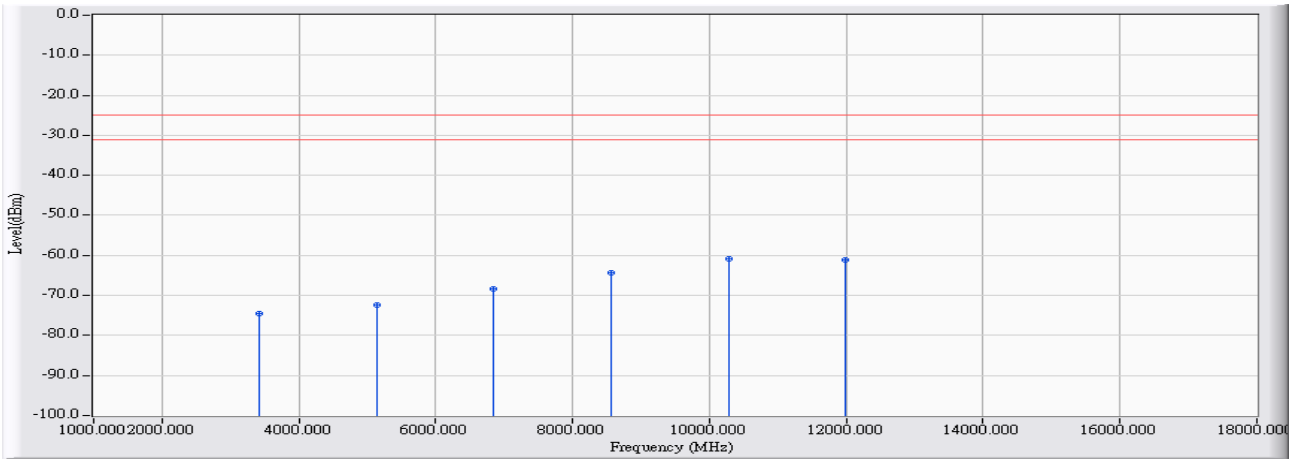


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBm)	Measure Level (dBm)	Margin (dB)	Limit (dBm)	Detector Type
1		3505.200	-2.154	-59.330	-61.484	-36.484	-25.000	PEAK
2		5257.800	0.544	-61.660	-61.116	-36.116	-25.000	PEAK
3		7010.400	6.086	-63.770	-57.684	-32.684	-25.000	PEAK
4		8763.000	11.886	-68.340	-56.454	-31.454	-25.000	PEAK
5	*	10515.600	17.373	-68.100	-50.727	-25.727	-25.000	PEAK
6		12268.200	17.521	-68.420	-50.899	-25.899	-25.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB4-H	**Time : 2017/01/15**
Limit : FCC_Part27(outband)_00M_PK	**Margin : 6**
Probe : CB4-H_CE_Sub_B433_1-18GHz_3M_1216-2 - HORIZONTAL	**Power : DC 3.8V**
EUT : LE920A4-NA	**Note : Mode 2: WCDMA Band 4_Idle mode_ 1712.4**

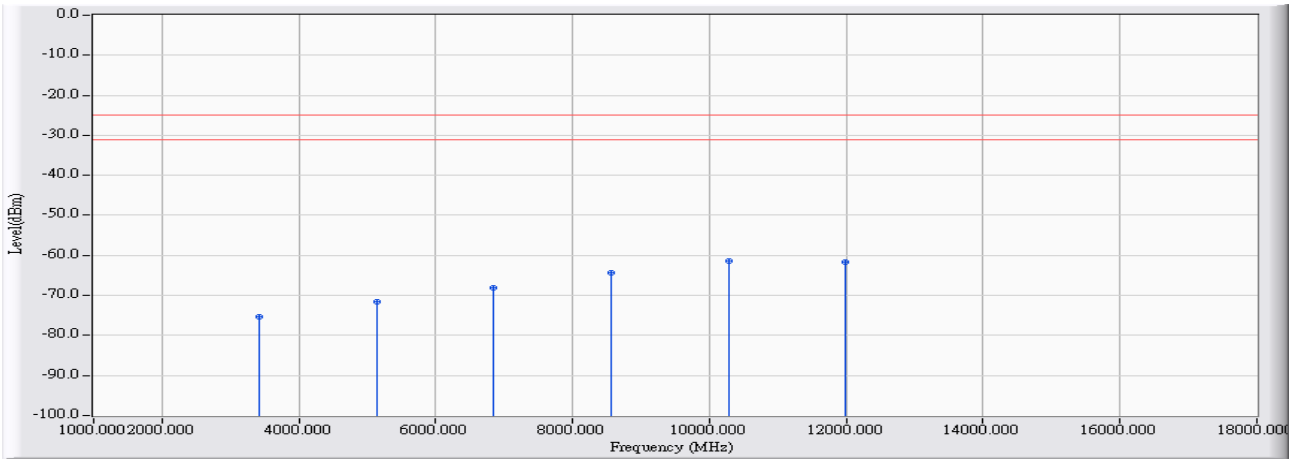


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBm)	Measure Level (dBm)	Margin (dB)	Limit (dBm)	Detector Type
1		3424.800	-1.985	-72.470	-74.455	-49.455	-25.000	PEAK
2		5137.200	0.897	-73.290	-72.392	-47.392	-25.000	PEAK
3		6849.600	5.257	-73.610	-68.353	-43.353	-25.000	PEAK
4		8562.000	11.680	-75.970	-64.289	-39.289	-25.000	PEAK
5	*	10274.400	15.897	-76.700	-60.804	-35.804	-25.000	PEAK
6		11986.800	16.048	-77.090	-61.042	-36.042	-25.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB4-H	**Time : 2017/01/15**
Limit : FCC_Part27(outband)_00M_PK	**Margin : 6**
Probe : CB4-H_CE_Sub_B433_1-18GHz_3M_1216-2 - VERTICAL	**Power : DC 3.8V**
EUT : LE920A4-NA	**Note : Mode 2: WCDMA Band 4_Idle mode_ 1712.4**

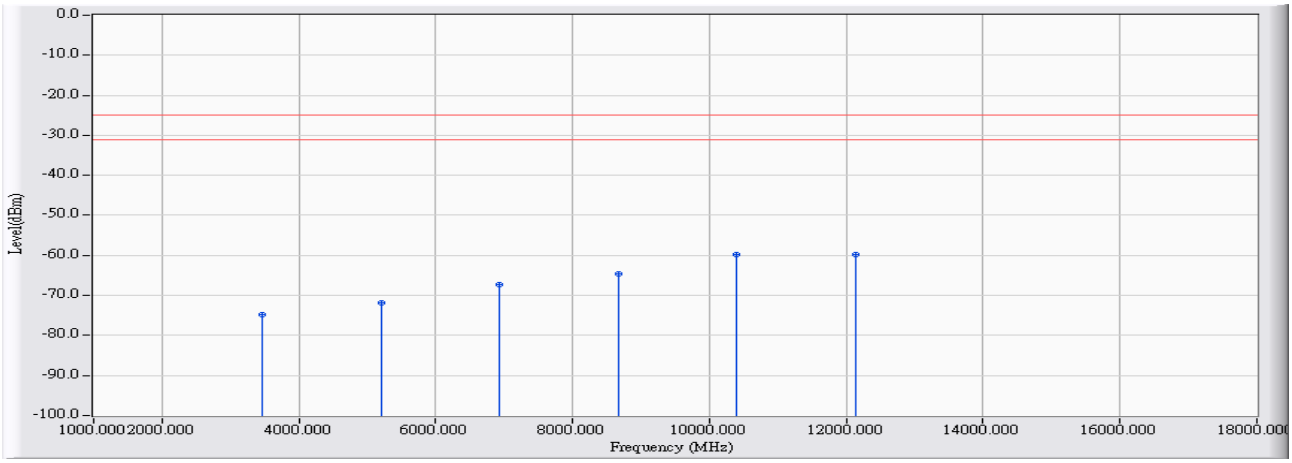


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBm)	Measure Level (dBm)	Margin (dB)	Limit (dBm)	Detector Type
1		3424.800	-2.226	-73.000	-75.226	-50.226	-25.000	PEAK
2		5137.200	0.632	-72.110	-71.477	-46.477	-25.000	PEAK
3		6849.600	5.092	-73.060	-67.969	-42.969	-25.000	PEAK
4		8562.000	11.541	-75.770	-64.228	-39.228	-25.000	PEAK
5	*	10274.400	15.733	-77.260	-61.528	-36.528	-25.000	PEAK
6		11986.800	16.141	-77.930	-61.789	-36.789	-25.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB4-H	**Time : 2017/01/15**
Limit : FCC_Part27(outband)_00M_PK	**Margin : 6**
Probe : CB4-H_CE_Sub_B433_1-18GHz_3M_1216-2 - HORIZONTAL	**Power : DC 3.8V**
EUT : LE920A4-NA	**Note : Mode 2: WCDMA Band 4_Idle mode_ 1732.6**

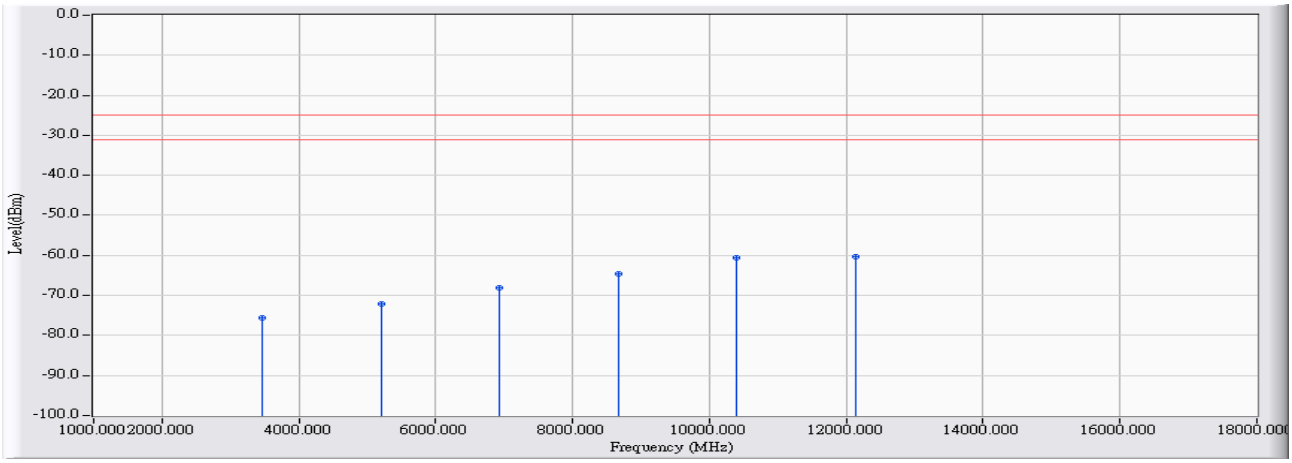


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBm)	Measure Level (dBm)	Margin (dB)	Limit (dBm)	Detector Type
1		3465.200	-1.932	-72.950	-74.882	-49.882	-25.000	PEAK
2		5197.800	0.836	-72.730	-71.894	-46.894	-25.000	PEAK
3		6930.400	5.741	-72.950	-67.209	-42.209	-25.000	PEAK
4		8663.000	11.752	-76.330	-64.579	-39.579	-25.000	PEAK
5		10395.600	16.458	-76.220	-59.762	-34.762	-25.000	PEAK
6	*	12128.200	16.859	-76.580	-59.721	-34.721	-25.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB4-H	**Time : 2017/01/15**
Limit : FCC_Part27(outband)_00M_PK	**Margin : 6**
Probe : CB4-H_CE_Sub_B433_1-18GHz_3M_1216-2 - VERTICAL	**Power : DC 3.8V**
EUT : LE920A4-NA	**Note : Mode 2: WCDMA Band 4_Idle mode_ 1732.6**

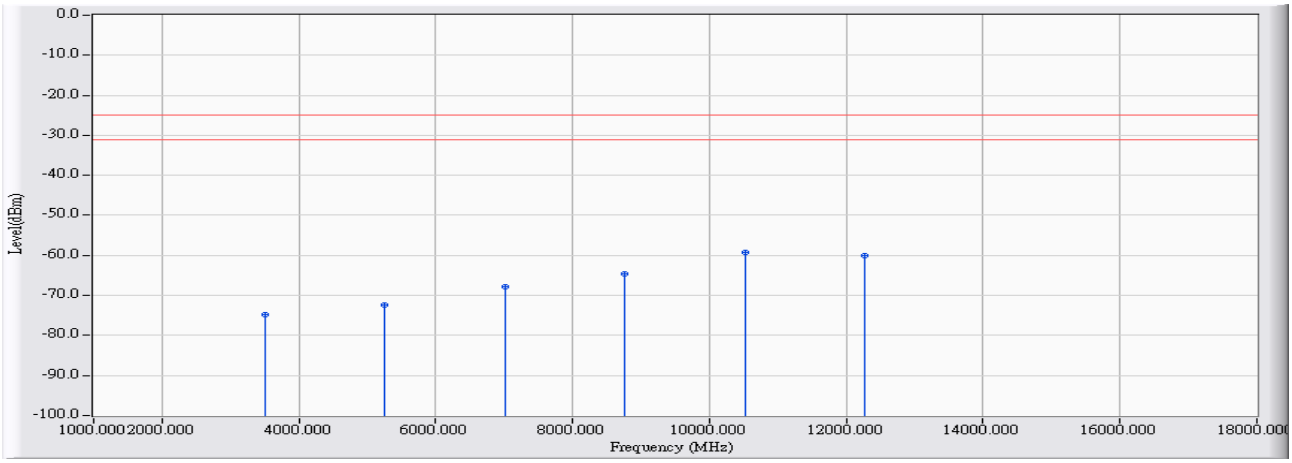


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBm)	Measure Level (dBm)	Margin (dB)	Limit (dBm)	Detector Type
1		3465.200	-2.192	-73.430	-75.623	-50.623	-25.000	PEAK
2		5197.800	0.559	-72.650	-72.091	-47.091	-25.000	PEAK
3		6930.400	5.572	-73.700	-68.127	-43.127	-25.000	PEAK
4		8663.000	11.705	-76.350	-64.646	-39.646	-25.000	PEAK
5		10395.600	16.624	-77.240	-60.616	-35.616	-25.000	PEAK
6	*	12128.200	16.828	-77.110	-60.282	-35.282	-25.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB4-H	**Time : 2017/01/15**
Limit : FCC_Part27(outband)_00M_PK	**Margin : 6**
Probe : CB4-H_CE_Sub_B433_1-18GHz_3M_1216-2 - HORIZONTAL	**Power : DC 3.8V**
EUT : LE920A4-NA	**Note : Mode 2: WCDMA Band 4_Idle mode_ 1752.6**

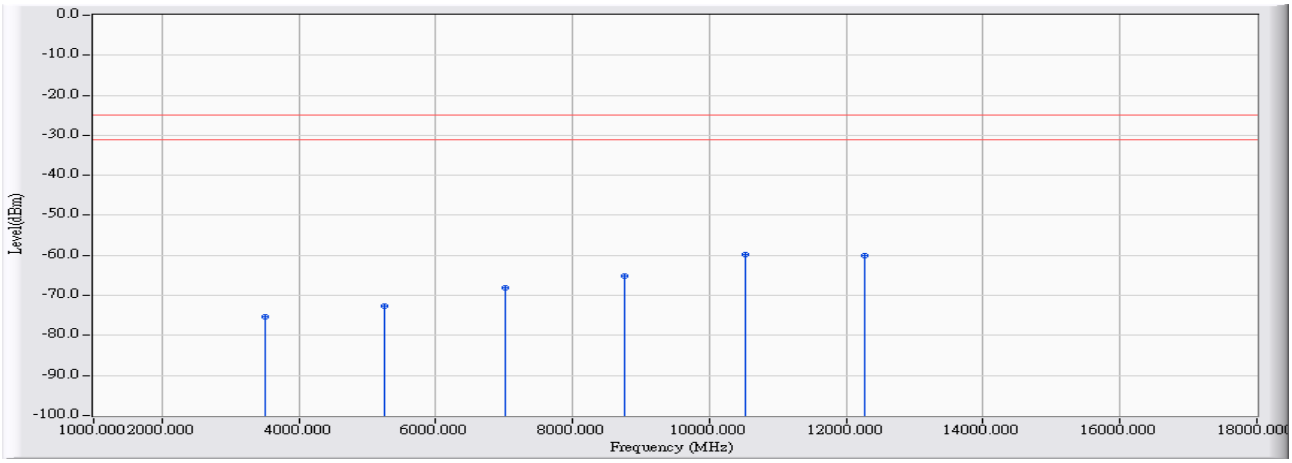


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBm)	Measure Level (dBm)	Margin (dB)	Limit (dBm)	Detector Type
1		3505.200	-1.880	-72.840	-74.720	-49.720	-25.000	PEAK
2		5257.800	0.831	-73.160	-72.329	-47.329	-25.000	PEAK
3		7010.400	6.237	-74.140	-67.902	-42.902	-25.000	PEAK
4		8763.000	11.856	-76.430	-64.574	-39.574	-25.000	PEAK
5	*	10515.600	16.925	-76.240	-59.315	-34.315	-25.000	PEAK
6		12268.200	17.704	-77.860	-60.156	-35.156	-25.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB4-H	**Time : 2017/01/15**
Limit : FCC_Part27(outband)_00M_PK	**Margin : 6**
Probe : CB4-H_CE_Sub_B433_1-18GHz_3M_1216-2 - VERTICAL	**Power : DC 3.8V**
EUT : LE920A4-NA	**Note : Mode 2: WCDMA Band 4_Idle mode_ 1752.6**

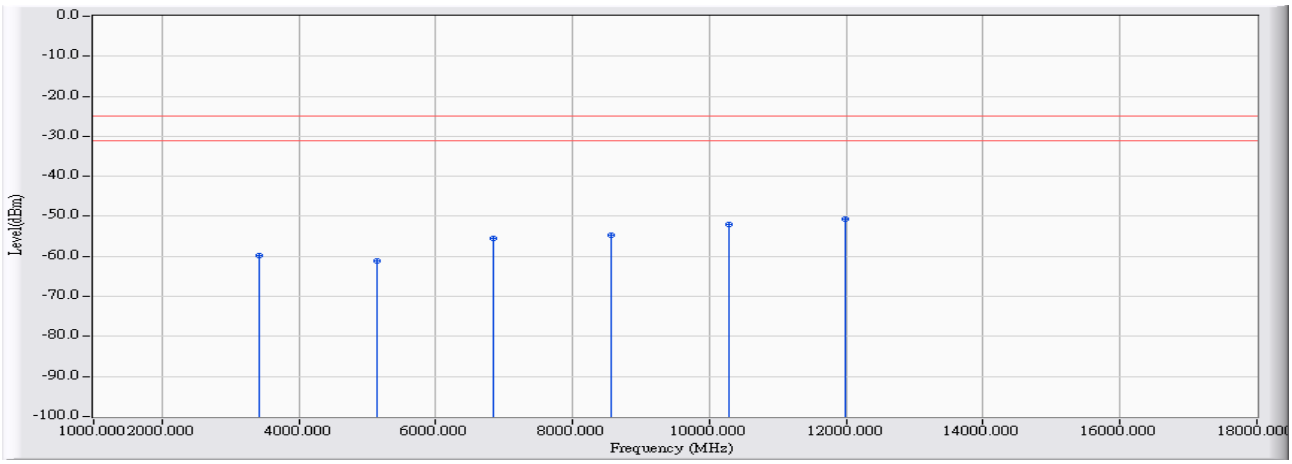


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBm)	Measure Level (dBm)	Margin (dB)	Limit (dBm)	Detector Type
1		3505.200	-2.154	-73.190	-75.344	-50.344	-25.000	PEAK
2		5257.800	0.544	-73.280	-72.736	-47.736	-25.000	PEAK
3		7010.400	6.086	-74.180	-68.094	-43.094	-25.000	PEAK
4		8763.000	11.886	-76.950	-65.064	-40.064	-25.000	PEAK
5	*	10515.600	17.373	-77.030	-59.657	-34.657	-25.000	PEAK
6		12268.200	17.521	-77.560	-60.039	-35.039	-25.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB4-H	**Time : 2017/02/22**
Limit : FCC_Part27(outband)_00M_PK	**Margin : 6**
Probe : CB4-H_CE_Sub_B432_1-18GHz_3M_1116 - HORIZONTAL	**Power : DC 3.8V**
EUT : LE920A4-NA	**Note : Mode 3: WCDMA Band 4_HSUPA Mode_ 1712.4MHz**

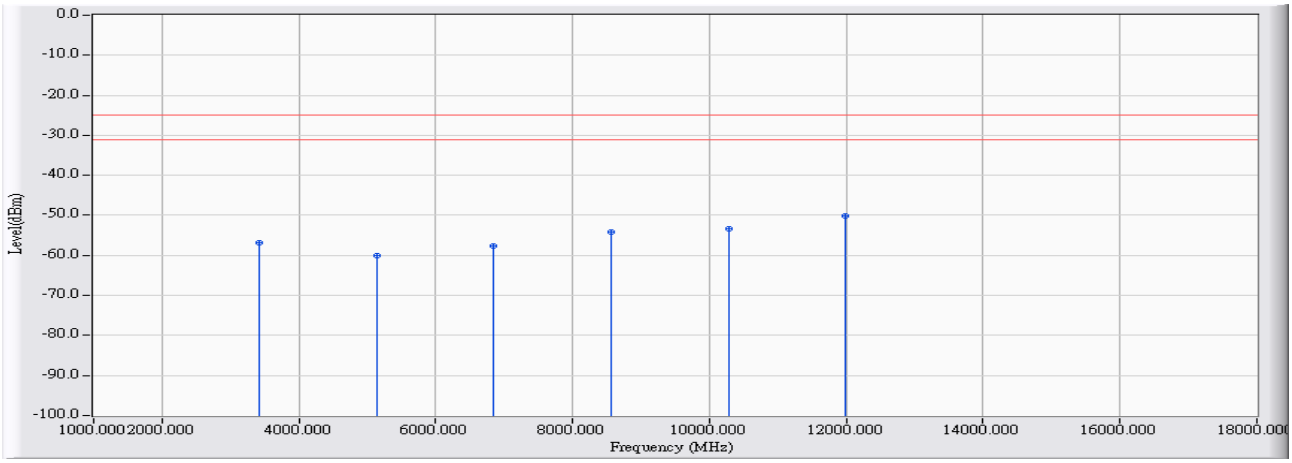


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBm)	Measure Level (dBm)	Margin (dB)	Limit (dBm)	Detector Type
1		3424.800	10.336	-70.250	-59.913	-34.913	-25.000	PEAK
2		5137.200	12.840	-74.090	-61.250	-36.250	-25.000	PEAK
3		6849.600	18.893	-74.440	-55.547	-30.547	-25.000	PEAK
4		8562.000	22.036	-76.730	-54.694	-29.694	-25.000	PEAK
5		10274.400	24.998	-77.100	-52.103	-27.103	-25.000	PEAK
6	*	11986.800	27.430	-78.090	-50.660	-25.660	-25.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB4-H	**Time : 2017/02/22**
Limit : FCC_Part27(outband)_00M_PK	**Margin : 6**
Probe : CB4-H_CE_Sub_B432_1-18GHz_3M_1116 - VERTICAL	**Power : DC 3.8V**
EUT : LE920A4-NA	**Note : Mode 3: WCDMA Band 4_HSUPA Mode_ 1712.4MHz**

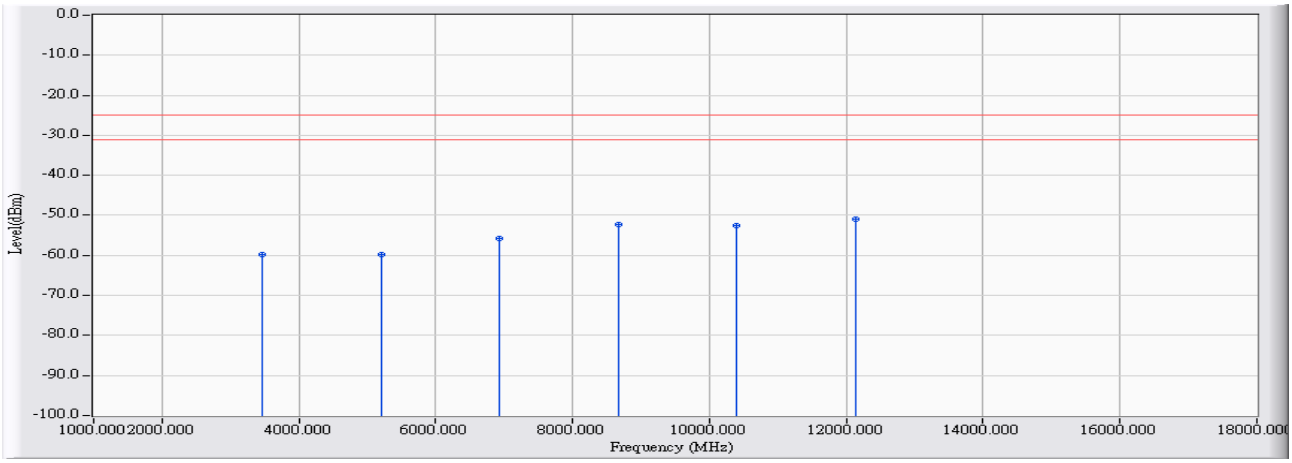


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBm)	Measure Level (dBm)	Margin (dB)	Limit (dBm)	Detector Type
1		3424.800	11.071	-67.970	-56.899	-31.899	-25.000	PEAK
2		5137.200	12.530	-72.610	-60.080	-35.080	-25.000	PEAK
3		6849.600	17.642	-75.220	-57.579	-32.579	-25.000	PEAK
4		8562.000	22.149	-76.320	-54.171	-29.171	-25.000	PEAK
5		10274.400	24.928	-78.200	-53.272	-28.272	-25.000	PEAK
6	*	11986.800	28.841	-78.880	-50.039	-25.039	-25.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB4-H	**Time : 2017/02/22**
Limit : FCC_Part27(outband)_00M_PK	**Margin : 6**
Probe : CB4-H_CE_Sub_B432_1-18GHz_3M_1116 - HORIZONTAL	**Power : DC 3.8V**
EUT : LE920A4-NA	**Note : Mode 3: WCDMA Band 4_HSUPA Mode_ 1732.6MHz**

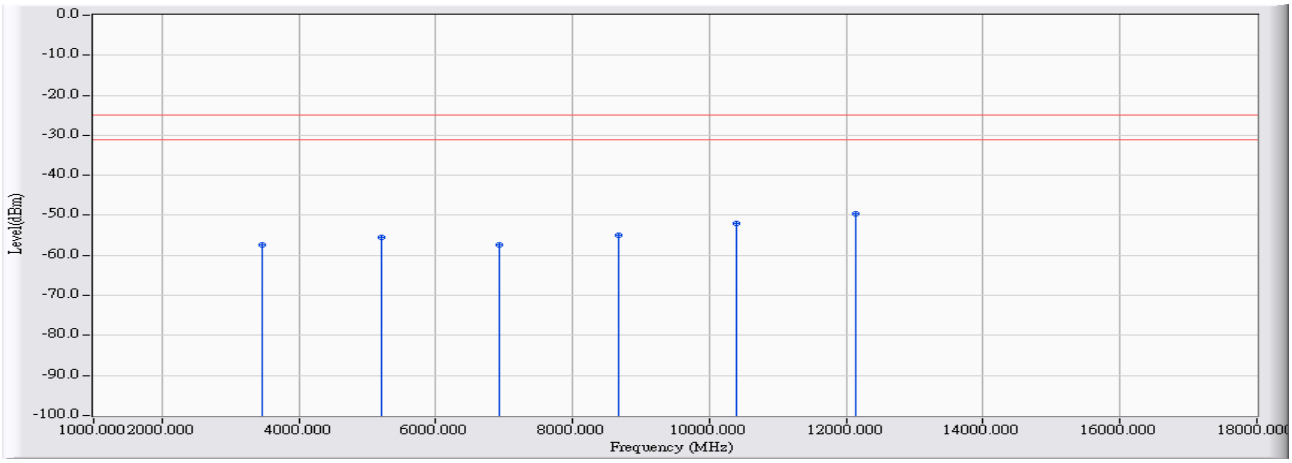


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBm)	Measure Level (dBm)	Margin (dB)	Limit (dBm)	Detector Type
1		3465.200	10.427	-70.250	-59.823	-34.823	-25.000	PEAK
2		5197.800	12.919	-72.830	-59.911	-34.911	-25.000	PEAK
3		6930.000	19.204	-74.910	-55.705	-30.705	-25.000	PEAK
4		8663.000	22.378	-74.680	-52.301	-27.301	-25.000	PEAK
5		10395.600	25.192	-77.790	-52.599	-27.599	-25.000	PEAK
6	*	12128.200	27.679	-78.660	-50.980	-25.980	-25.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB4-H	**Time : 2017/02/22**
Limit : FCC_Part27(outband)_00M_PK	**Margin : 6**
Probe : CB4-H_CE_Sub_B432_1-18GHz_3M_1116 - VERTICAL	**Power : DC 3.8V**
EUT : LE920A4-NA	**Note : Mode 3: WCDMA Band 4_HSUPA Mode_ 1732.6MHz**

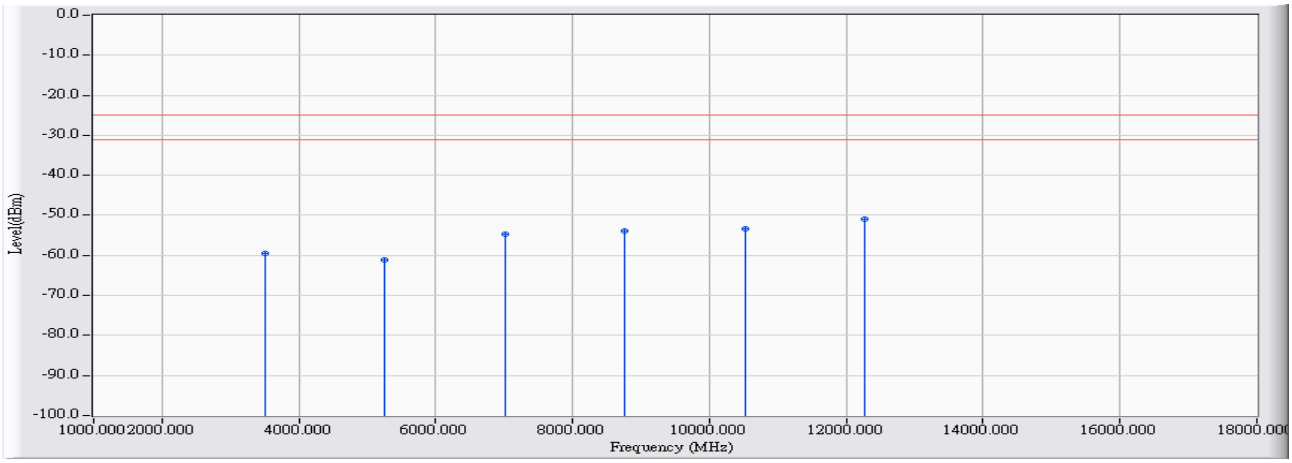


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBm)	Measure Level (dBm)	Margin (dB)	Limit (dBm)	Detector Type
1		3465.200	11.209	-68.640	-57.431	-32.431	-25.000	PEAK
2		5197.800	12.636	-68.000	-55.364	-30.364	-25.000	PEAK
3		6930.400	17.784	-75.080	-57.296	-32.296	-25.000	PEAK
4		8663.000	22.675	-77.540	-54.865	-29.865	-25.000	PEAK
5		10395.600	24.751	-76.740	-51.989	-26.989	-25.000	PEAK
6	*	12128.200	29.194	-78.790	-49.596	-24.596	-25.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB4-H	**Time : 2017/02/22**
Limit : FCC_Part27(outband)_00M_PK	**Margin : 6**
Probe : CB4-H_CE_Sub_B432_1-18GHz_3M_1116 - HORIZONTAL	**Power : DC 3.8V**
EUT : LE920A4-NA	**Note : Mode 3: WCDMA Band 4_HSUPA Mode_ 1752.6MHz**

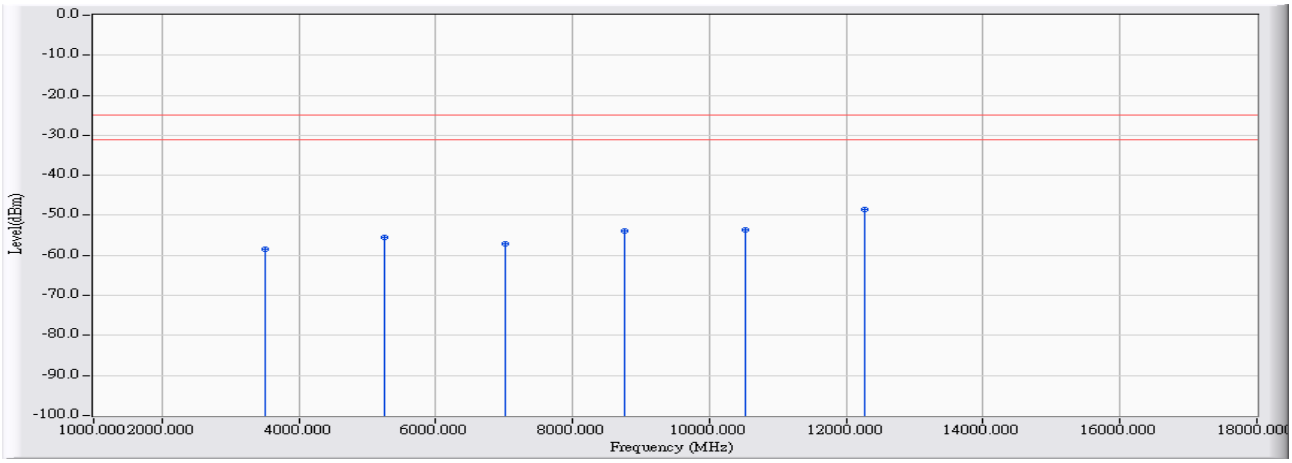


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBm)	Measure Level (dBm)	Margin (dB)	Limit (dBm)	Detector Type
1		3505.200	10.517	-70.140	-59.623	-34.623	-25.000	PEAK
2		5257.800	12.991	-74.090	-61.099	-36.099	-25.000	PEAK
3		7010.400	19.491	-74.260	-54.769	-29.769	-25.000	PEAK
4		8763.000	22.714	-76.730	-54.016	-29.016	-25.000	PEAK
5		10515.600	25.418	-78.660	-53.242	-28.242	-25.000	PEAK
6	*	12268.200	27.932	-78.910	-50.978	-25.978	-25.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB4-H	**Time : 2017/02/22**
Limit : FCC_Part27(outband)_00M_PK	**Margin : 6**
Probe : CB4-H_CE_Sub_B432_1-18GHz_3M_1116 - VERTICAL	**Power : DC 3.8V**
EUT : LE920A4-NA	**Note : Mode 3: WCDMA Band 4_HSUPA Mode_ 1752.6MHz**

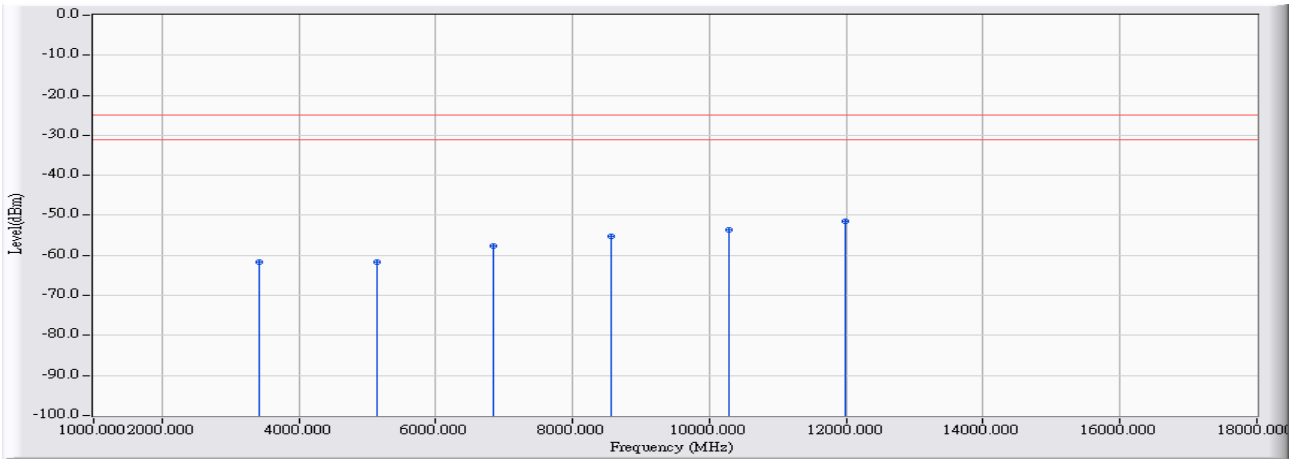


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBm)	Measure Level (dBm)	Margin (dB)	Limit (dBm)	Detector Type
1		3505.200	11.340	-69.710	-58.371	-33.371	-25.000	PEAK
2		5257.800	12.734	-68.170	-55.436	-30.436	-25.000	PEAK
3		7010.400	17.956	-75.150	-57.194	-32.194	-25.000	PEAK
4		8763.000	23.192	-77.100	-53.907	-28.907	-25.000	PEAK
5		10515.600	24.638	-78.220	-53.582	-28.582	-25.000	PEAK
6	*	12268.200	29.516	-78.020	-48.504	-23.504	-25.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB4-H	**Time : 2017/02/22**
Limit : FCC_Part27(outband)_00M_PK	**Margin : 6**
Probe : CB4-H_CE_Sub_B432_1-18GHz_3M_1116 - HORIZONTAL	**Power : DC 3.8V**
EUT : LE920A4-NA	**Note : Mode 3: WCDMA Band 4_HSUPA Mode_ 1712.4MHz**

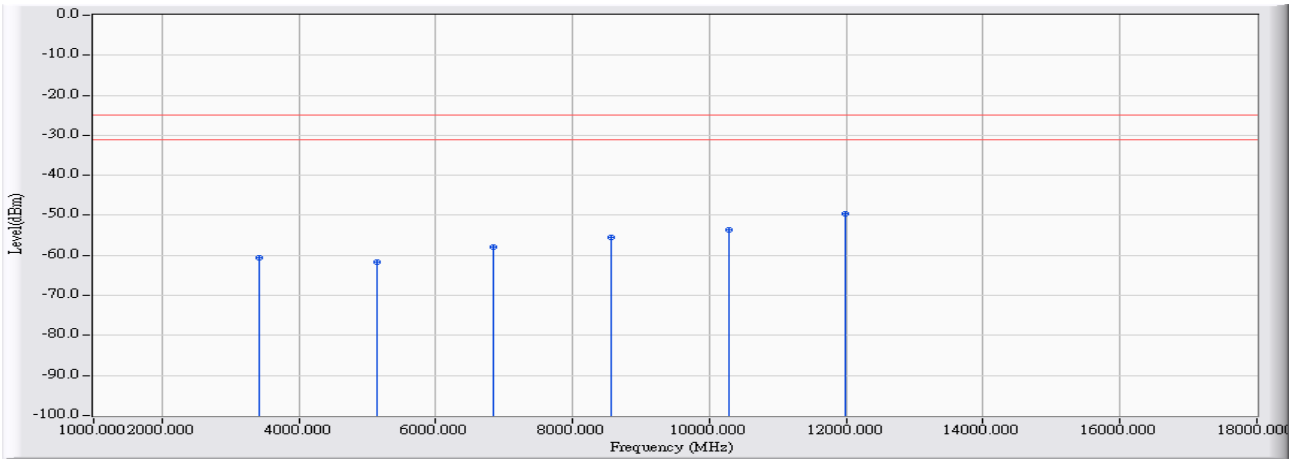


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBm)	Measure Level (dBm)	Margin (dB)	Limit (dBm)	Detector Type
1		3424.800	10.336	-72.030	-61.693	-36.693	-25.000	PEAK
2		5137.200	12.840	-74.610	-61.770	-36.770	-25.000	PEAK
3		6849.600	18.893	-76.530	-57.637	-32.637	-25.000	PEAK
4		8562.000	22.036	-77.250	-55.214	-30.214	-25.000	PEAK
5		10274.400	24.998	-78.560	-53.563	-28.563	-25.000	PEAK
6	*	11986.800	27.430	-78.990	-51.560	-26.560	-25.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB4-H	**Time : 2017/02/22**
Limit : FCC_Part27(outband)_00M_PK	**Margin : 6**
Probe : CB4-H_CE_Sub_B432_1-18GHz_3M_1116 - VERTICAL	**Power : DC 3.8V**
EUT : LE920A4-NA	**Note : Mode 3: WCDMA Band 4_HSUPA Mode_ 1712.4MHz**

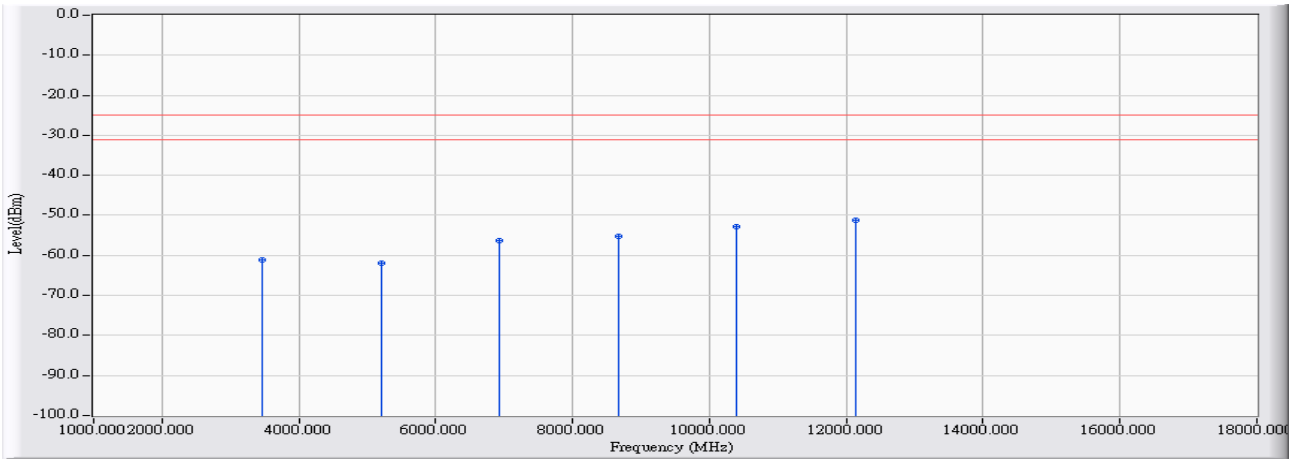


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBm)	Measure Level (dBm)	Margin (dB)	Limit (dBm)	Detector Type
1		3424.800	11.071	-71.680	-60.609	-35.609	-25.000	PEAK
2		5137.200	12.530	-74.280	-61.750	-36.750	-25.000	PEAK
3		6849.600	17.642	-75.660	-58.019	-33.019	-25.000	PEAK
4		8562.000	22.149	-77.750	-55.601	-30.601	-25.000	PEAK
5		10274.400	24.928	-78.530	-53.602	-28.602	-25.000	PEAK
6	*	11986.800	28.841	-78.440	-49.599	-24.599	-25.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB4-H	**Time : 2017/02/22**
Limit : FCC_Part27(outband)_00M_PK	**Margin : 6**
Probe : CB4-H_CE_Sub_B432_1-18GHz_3M_1116 - HORIZONTAL	**Power : DC 3.8V**
EUT : LE920A4-NA	**Note : Mode 3: WCDMA Band 4_HSUPA Mode_ 1732.6MHz**

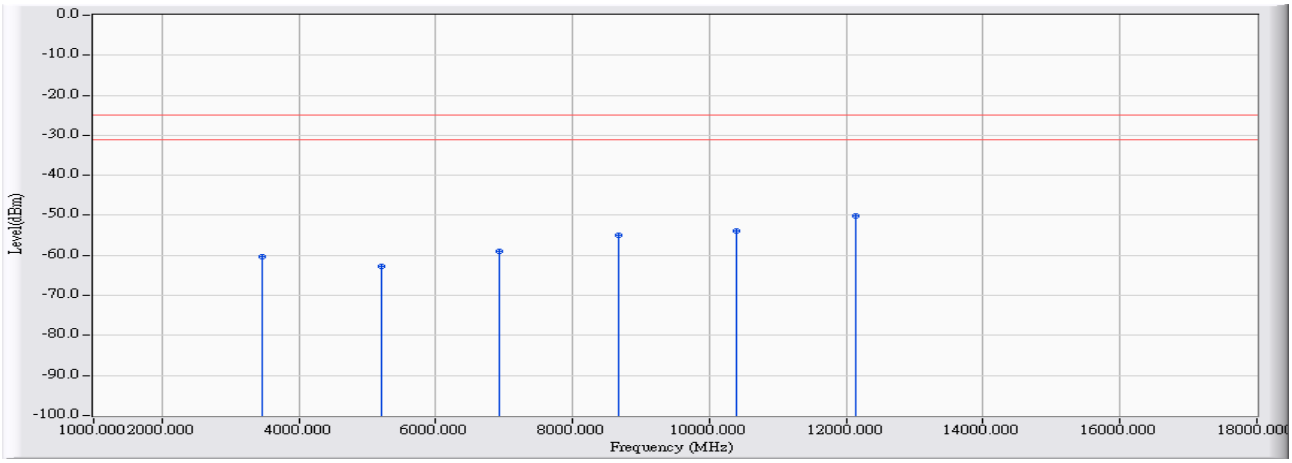


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBm)	Measure Level (dBm)	Margin (dB)	Limit (dBm)	Detector Type
1		3465.200	10.427	-71.680	-61.253	-36.253	-25.000	PEAK
2		5197.800	12.919	-74.850	-61.931	-36.931	-25.000	PEAK
3		6930.400	19.206	-75.520	-56.314	-31.314	-25.000	PEAK
4		8663.000	22.378	-77.640	-55.261	-30.261	-25.000	PEAK
5		10395.600	25.192	-78.030	-52.839	-27.839	-25.000	PEAK
6	*	12128.200	27.679	-78.760	-51.080	-26.080	-25.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB4-H	**Time : 2017/02/22**
Limit : FCC_Part27(outband)_00M_PK	**Margin : 6**
Probe : CB4-H_CE_Sub_B432_1-18GHz_3M_1116 - VERTICAL	**Power : DC 3.8V**
EUT : LE920A4-NA	**Note : Mode 3: WCDMA Band 4_HSUPA Mode_ 1732.6MHz**

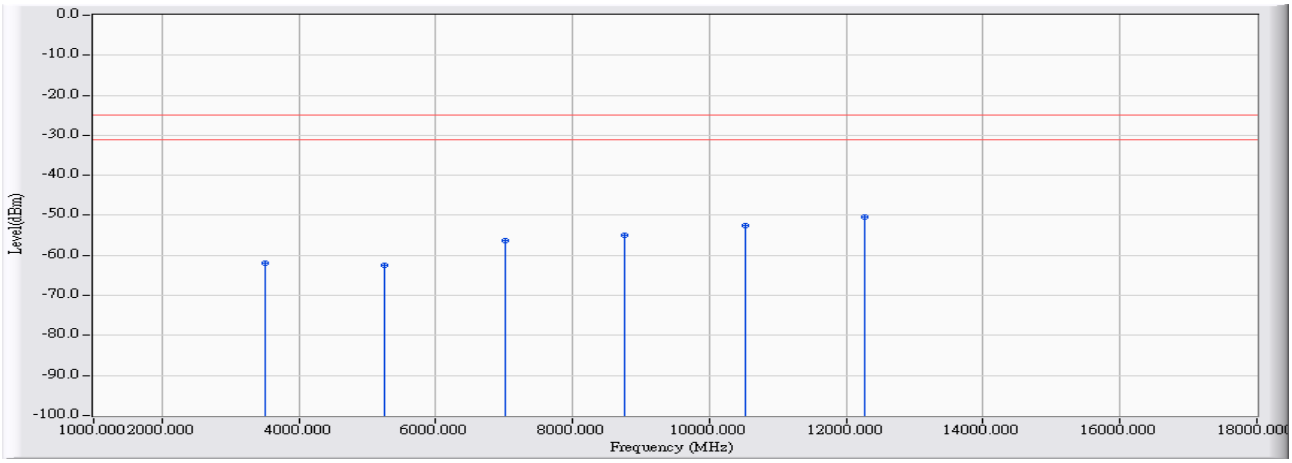


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBm)	Measure Level (dBm)	Margin (dB)	Limit (dBm)	Detector Type
1		3465.200	11.209	-71.580	-60.371	-35.371	-25.000	PEAK
2		5197.800	12.636	-75.350	-62.714	-37.714	-25.000	PEAK
3		6930.400	17.784	-76.670	-58.886	-33.886	-25.000	PEAK
4		8663.000	22.675	-77.600	-54.925	-29.925	-25.000	PEAK
5		10395.600	24.751	-78.620	-53.869	-28.869	-25.000	PEAK
6	*	12128.200	29.194	-79.250	-50.056	-25.056	-25.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB4-H	**Time : 2017/02/22**
Limit : FCC_Part27(outband)_00M_PK	**Margin : 6**
Probe : CB4-H_CE_Sub_B432_1-18GHz_3M_1116 - HORIZONTAL	**Power : DC 3.8V**
EUT : LE920A4-NA	**Note : Mode 3: WCDMA Band 4_HSUPA Mode_ 1752.6MHz**

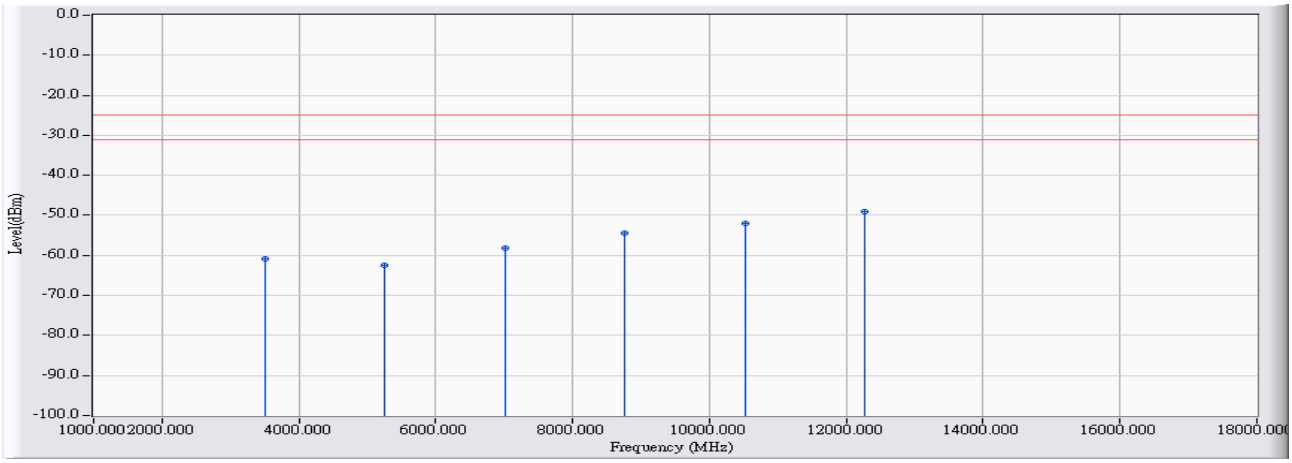


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBm)	Measure Level (dBm)	Margin (dB)	Limit (dBm)	Detector Type
1		3505.200	10.517	-72.550	-62.033	-37.033	-25.000	PEAK
2		5257.800	12.991	-75.350	-62.359	-37.359	-25.000	PEAK
3		7010.400	19.491	-75.820	-56.329	-31.329	-25.000	PEAK
4		8763.000	22.714	-77.730	-55.016	-30.016	-25.000	PEAK
5		10515.600	25.418	-77.940	-52.522	-27.522	-25.000	PEAK
6	*	12268.200	27.932	-78.390	-50.458	-25.458	-25.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB4-H	**Time : 2017/02/22**
Limit : FCC_Part27(outband)_00M_PK	**Margin : 6**
Probe : CB4-H_CE_Sub_B432_1-18GHz_3M_1116 - VERTICAL	**Power : DC 3.8V**
EUT : LE920A4-NA	**Note : Mode 3: WCDMA Band 4_HSUPA Mode_ 1752.6MHz**

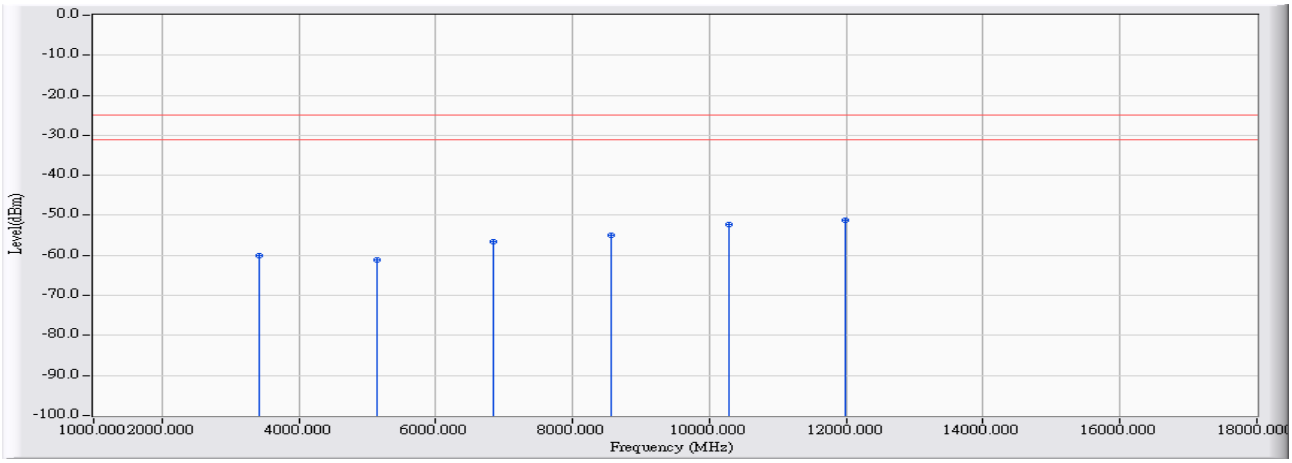


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBm)	Measure Level (dBm)	Margin (dB)	Limit (dBm)	Detector Type
1		3505.200	11.340	-72.080	-60.741	-35.741	-25.000	PEAK
2		5257.800	12.734	-75.210	-62.476	-37.476	-25.000	PEAK
3		7010.400	17.956	-76.060	-58.104	-33.104	-25.000	PEAK
4		8763.000	23.192	-77.680	-54.487	-29.487	-25.000	PEAK
5		10515.600	24.638	-76.590	-51.952	-26.952	-25.000	PEAK
6	*	12268.200	29.516	-78.470	-48.954	-23.954	-25.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB4-H	**Time : 2017/02/22**
Limit : FCC_Part27(outband)_00M_PK	**Margin : 6**
Probe : CB4-H_CE_Sub_B432_1-18GHz_3M_1116 - HORIZONTAL	**Power : DC 3.8V**
EUT : LE920A4-NA	**Note : Mode 4: WCDMA Band 4_HSDPA Mode_ 1712.4MHz**

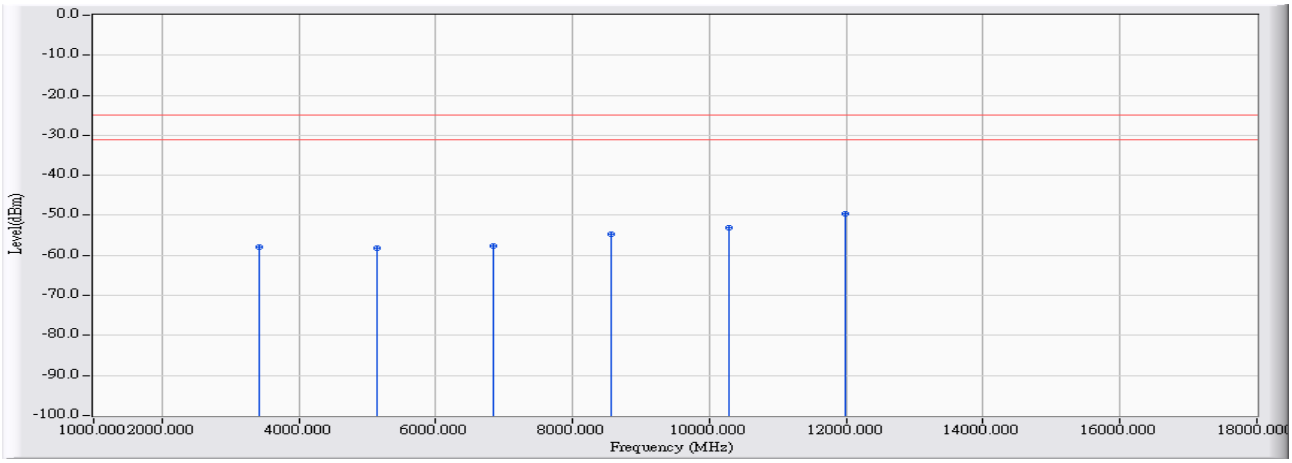


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBm)	Measure Level (dBm)	Margin (dB)	Limit (dBm)	Detector Type
1		3424.800	10.336	-70.390	-60.053	-35.053	-25.000	PEAK
2		5137.200	12.840	-74.000	-61.160	-36.160	-25.000	PEAK
3		6849.600	18.893	-75.470	-56.577	-31.577	-25.000	PEAK
4		8562.000	22.036	-76.950	-54.914	-29.914	-25.000	PEAK
5		10274.400	24.998	-77.390	-52.393	-27.393	-25.000	PEAK
6	*	11986.800	27.430	-78.600	-51.170	-26.170	-25.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB4-H	**Time : 2017/02/22**
Limit : FCC_Part27(outband)_00M_PK	**Margin : 6**
Probe : CB4-H_CE_Sub_B432_1-18GHz_3M_1116 - VERTICAL	**Power : DC 3.8V**
EUT : LE920A4-NA	**Note : Mode 4: WCDMA Band 4_HSDPA Mode_ 1712.4MHz**

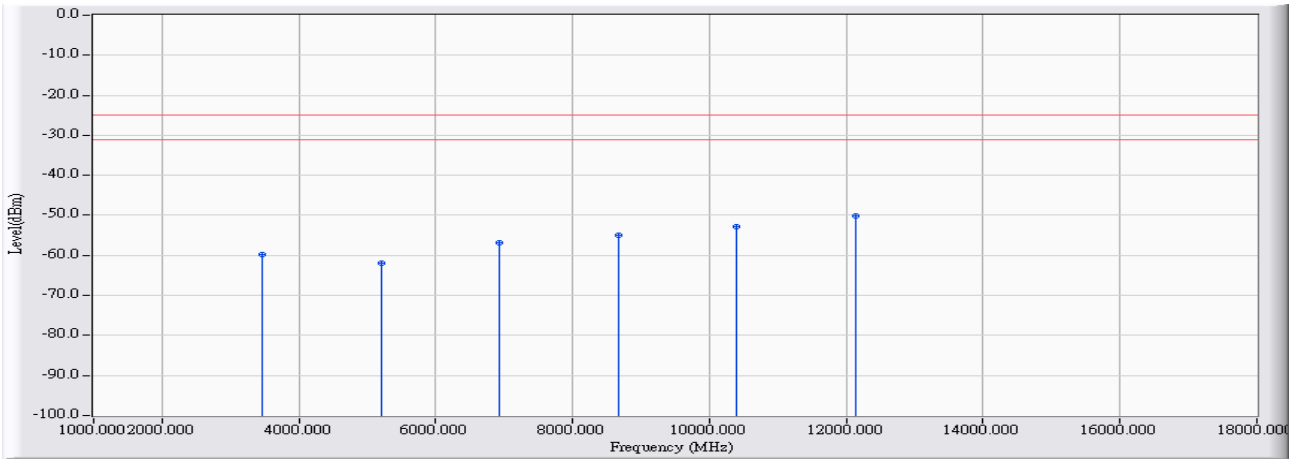


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBm)	Measure Level (dBm)	Margin (dB)	Limit (dBm)	Detector Type
1		3424.800	11.071	-68.960	-57.889	-32.889	-25.000	PEAK
2		5137.200	12.530	-70.780	-58.250	-33.250	-25.000	PEAK
3		6849.600	17.642	-75.150	-57.509	-32.509	-25.000	PEAK
4		8562.000	22.149	-76.780	-54.631	-29.631	-25.000	PEAK
5		10274.400	24.928	-77.910	-52.982	-27.982	-25.000	PEAK
6	*	11986.800	28.841	-78.410	-49.569	-24.569	-25.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB4-H	**Time : 2017/02/22**
Limit : FCC_Part27(outband)_00M_PK	**Margin : 6**
Probe : CB4-H_CE_Sub_B432_1-18GHz_3M_1116 - HORIZONTAL	**Power : DC 3.8V**
EUT : LE920A4-NA	**Note : Mode 4: WCDMA Band 4_HSDPA Mode_ 1732.6MHz**

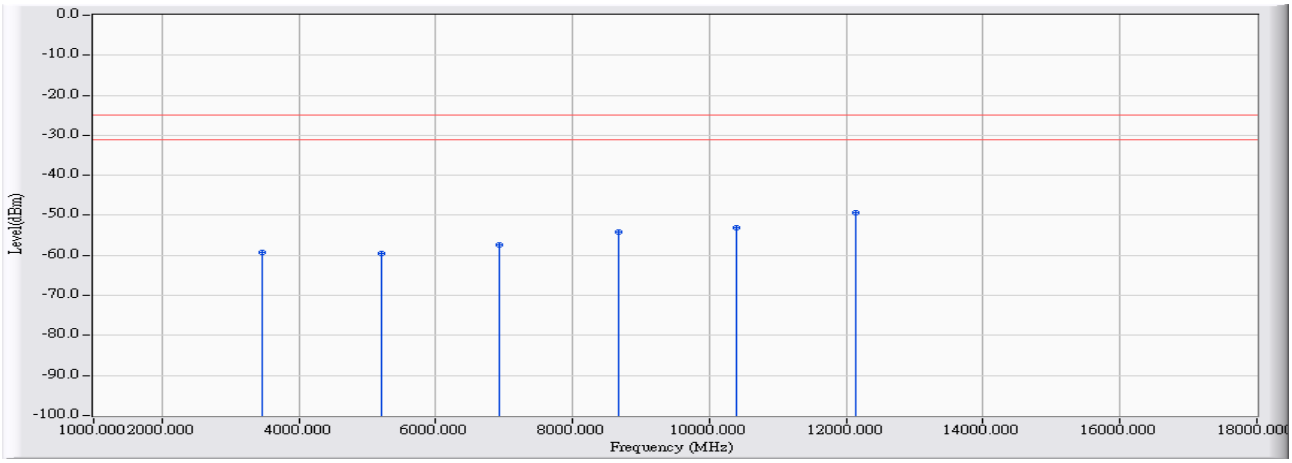


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBm)	Measure Level (dBm)	Margin (dB)	Limit (dBm)	Detector Type
1		3465.200	10.427	-70.250	-59.823	-34.823	-25.000	PEAK
2		5197.800	12.919	-74.760	-61.841	-36.841	-25.000	PEAK
3		6930.400	19.206	-76.130	-56.924	-31.924	-25.000	PEAK
4		8663.000	22.378	-77.380	-55.001	-30.001	-25.000	PEAK
5		10395.600	25.192	-77.970	-52.779	-27.779	-25.000	PEAK
6	*	12128.200	27.679	-77.850	-50.170	-25.170	-25.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB4-H	**Time : 2017/02/22**
Limit : FCC_Part27(outband)_00M_PK	**Margin : 6**
Probe : CB4-H_CE_Sub_B432_1-18GHz_3M_1116 - VERTICAL	**Power : DC 3.8V**
EUT : LE920A4-NA	**Note : Mode 4: WCDMA Band 4_HSDPA Mode_ 1732.6MHz**

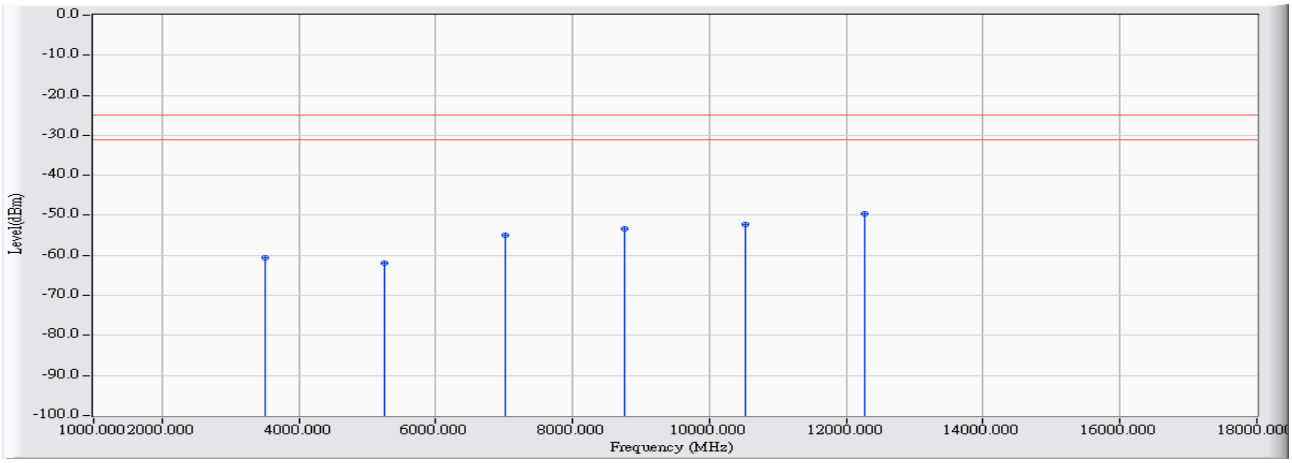


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBm)	Measure Level (dBm)	Margin (dB)	Limit (dBm)	Detector Type
1		3465.200	11.209	-70.540	-59.331	-34.331	-25.000	PEAK
2		5197.800	12.636	-72.230	-59.594	-34.594	-25.000	PEAK
3		6930.400	17.784	-75.210	-57.426	-32.426	-25.000	PEAK
4		8663.000	22.675	-76.870	-54.195	-29.195	-25.000	PEAK
5		10395.600	24.751	-77.890	-53.139	-28.139	-25.000	PEAK
6	*	12128.200	29.194	-78.530	-49.336	-24.336	-25.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB4-H	**Time : 2017/02/22**
Limit : FCC_Part27(outband)_00M_PK	**Margin : 6**
Probe : CB4-H_CE_Sub_B432_1-18GHz_3M_1116 - HORIZONTAL	**Power : DC 3.8V**
EUT : LE920A4-NA	**Note : Mode 4: WCDMA Band 4_HSDPA Mode_ 1752.6MHz**

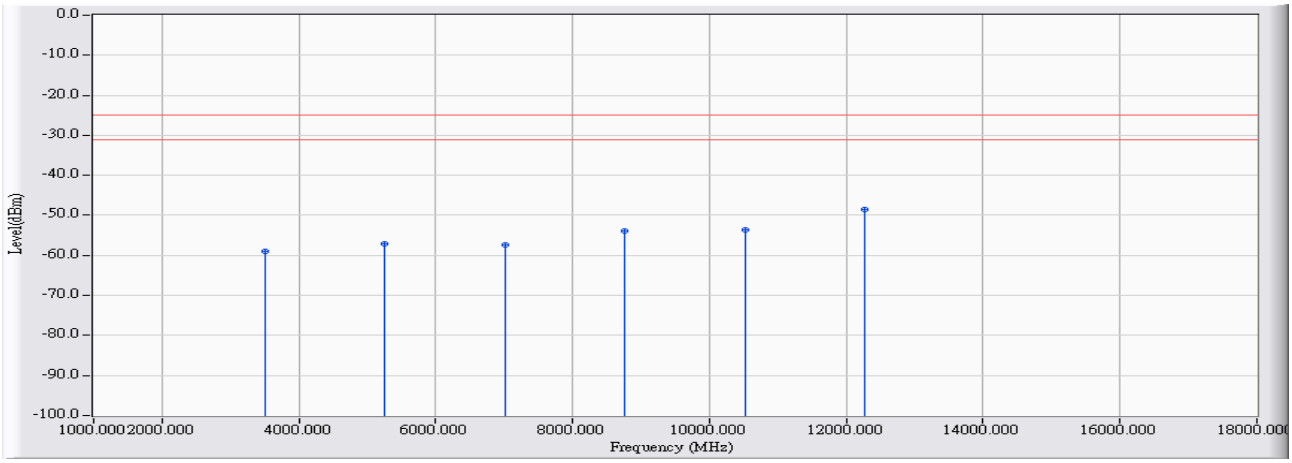


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBm)	Measure Level (dBm)	Margin (dB)	Limit (dBm)	Detector Type
1		3505.200	10.517	-71.000	-60.483	-35.483	-25.000	PEAK
2		5257.800	12.991	-74.900	-61.909	-36.909	-25.000	PEAK
3		7010.400	19.491	-74.460	-54.969	-29.969	-25.000	PEAK
4		8763.000	22.714	-75.980	-53.266	-28.266	-25.000	PEAK
5		10515.600	25.418	-77.830	-52.412	-27.412	-25.000	PEAK
6	*	12268.200	27.932	-77.530	-49.598	-24.598	-25.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB4-H	**Time : 2017/02/22**
Limit : FCC_Part27(outband)_00M_PK	**Margin : 6**
Probe : CB4-H_CE_Sub_B432_1-18GHz_3M_1116 - VERTICAL	**Power : DC 3.8V**
EUT : LE920A4-NA	**Note : Mode 4: WCDMA Band 4_HSDPA Mode_ 1752.6MHz**

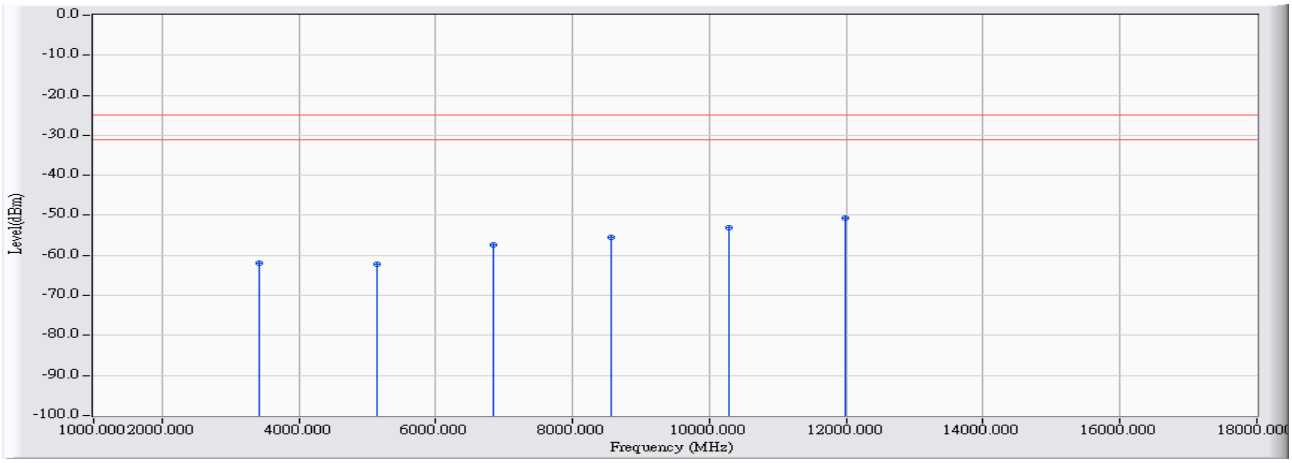


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBm)	Measure Level (dBm)	Margin (dB)	Limit (dBm)	Detector Type
1		3505.200	11.340	-70.450	-59.111	-34.111	-25.000	PEAK
2		5257.800	12.734	-69.870	-57.136	-32.136	-25.000	PEAK
3		7010.400	17.956	-75.250	-57.294	-32.294	-25.000	PEAK
4		8763.000	23.192	-77.130	-53.937	-28.937	-25.000	PEAK
5		10515.600	24.638	-78.360	-53.722	-28.722	-25.000	PEAK
6	*	12268.200	29.516	-78.070	-48.554	-23.554	-25.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB4-H	**Time : 2017/02/22**
Limit : FCC_Part27(outband)_00M_PK	**Margin : 6**
Probe : CB4-H_CE_Sub_B432_1-18GHz_3M_1116 - HORIZONTAL	**Power : DC 3.8V**
EUT : LE920A4-NA	**Note : Mode 4: WCDMA Band 4_HSDPA Mode_ 1712.4MHz**

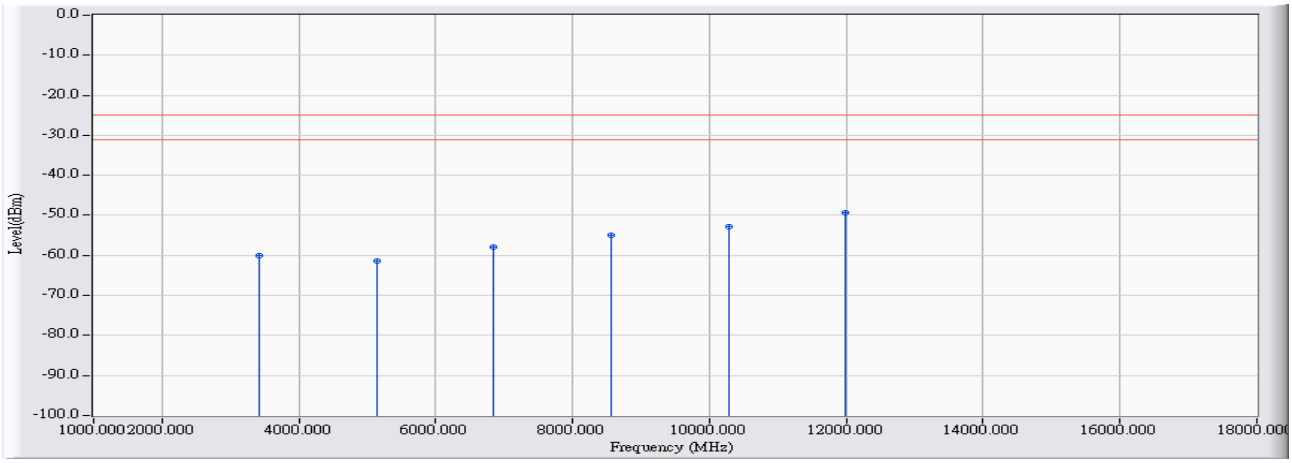


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBm)	Measure Level (dBm)	Margin (dB)	Limit (dBm)	Detector Type
1		3424.800	10.336	-72.350	-62.013	-37.013	-25.000	PEAK
2		5137.200	12.840	-75.150	-62.310	-37.310	-25.000	PEAK
3		6849.600	18.893	-76.230	-57.337	-32.337	-25.000	PEAK
4		8562.000	22.036	-77.620	-55.584	-30.584	-25.000	PEAK
5		10274.400	24.998	-78.210	-53.213	-28.213	-25.000	PEAK
6	*	11986.800	27.430	-78.090	-50.660	-25.660	-25.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB4-H	**Time : 2017/02/22**
Limit : FCC_Part27(outband)_00M_PK	**Margin : 6**
Probe : CB4-H_CE_Sub_B432_1-18GHz_3M_1116 - VERTICAL	**Power : DC 3.8V**
EUT : LE920A4-NA	**Note : Mode 4: WCDMA Band 4_HSDPA Mode_ 1712.4MHz**

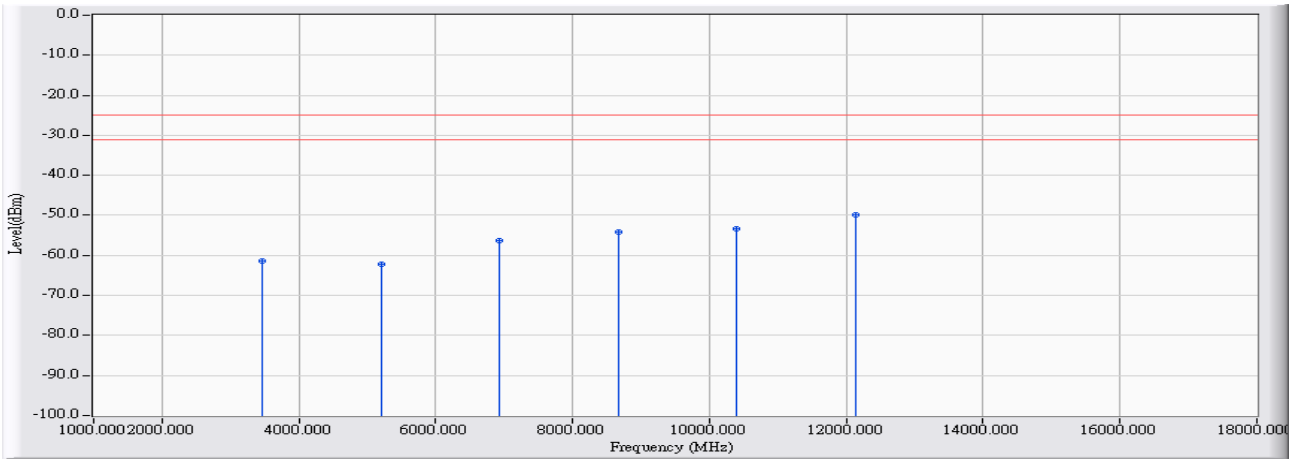


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBm)	Measure Level (dBm)	Margin (dB)	Limit (dBm)	Detector Type
1		3424.800	11.071	-71.170	-60.099	-35.099	-25.000	PEAK
2		5137.200	12.530	-73.920	-61.390	-36.390	-25.000	PEAK
3		6849.600	17.642	-75.470	-57.829	-32.829	-25.000	PEAK
4		8562.000	22.149	-77.210	-55.061	-30.061	-25.000	PEAK
5		10274.400	24.928	-77.780	-52.852	-27.852	-25.000	PEAK
6	*	11986.800	28.841	-78.150	-49.309	-24.309	-25.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB4-H	**Time : 2017/02/22**
Limit : FCC_Part27(outband)_00M_PK	**Margin : 6**
Probe : CB4-H_CE_Sub_B432_1-18GHz_3M_1116 - HORIZONTAL	**Power : DC 3.8V**
EUT : LE920A4-NA	**Note : Mode 4: WCDMA Band 4_HSDPA Mode_ 1732.6MHz**

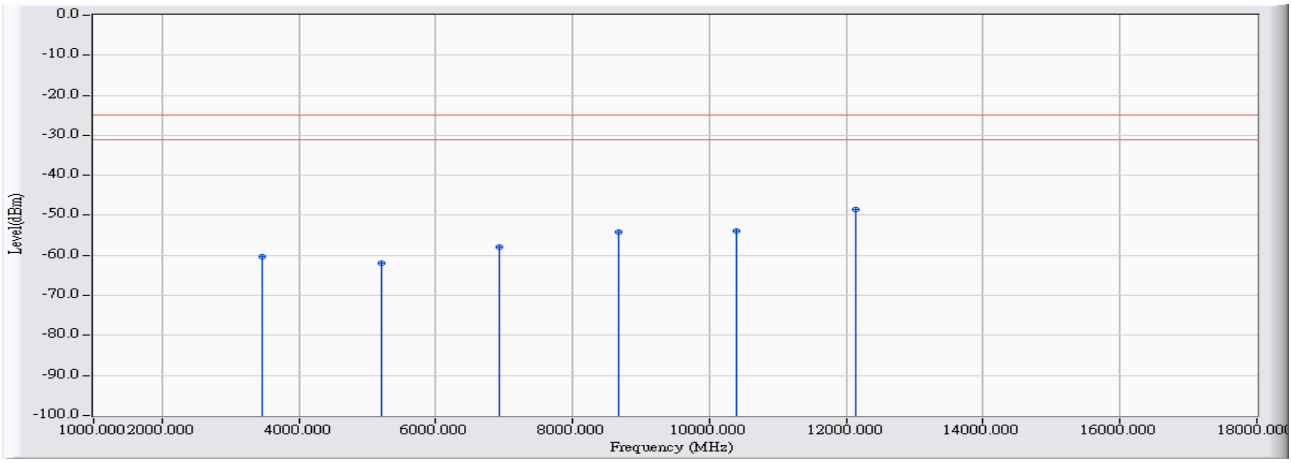


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBm)	Measure Level (dBm)	Margin (dB)	Limit (dBm)	Detector Type
1		3465.200	10.427	-71.930	-61.503	-36.503	-25.000	PEAK
2		5197.800	12.919	-75.080	-62.161	-37.161	-25.000	PEAK
3		6930.400	19.206	-75.610	-56.404	-31.404	-25.000	PEAK
4		8663.000	22.378	-76.590	-54.211	-29.211	-25.000	PEAK
5		10395.600	25.192	-78.560	-53.369	-28.369	-25.000	PEAK
6	*	12128.200	27.679	-77.450	-49.770	-24.770	-25.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB4-H	**Time : 2017/02/22**
Limit : FCC_Part27(outband)_00M_PK	**Margin : 6**
Probe : CB4-H_CE_Sub_B432_1-18GHz_3M_1116 - VERTICAL	**Power : DC 3.8V**
EUT : LE920A4-NA	**Note : Mode 4: WCDMA Band 4_HSDPA Mode_ 1732.6MHz**

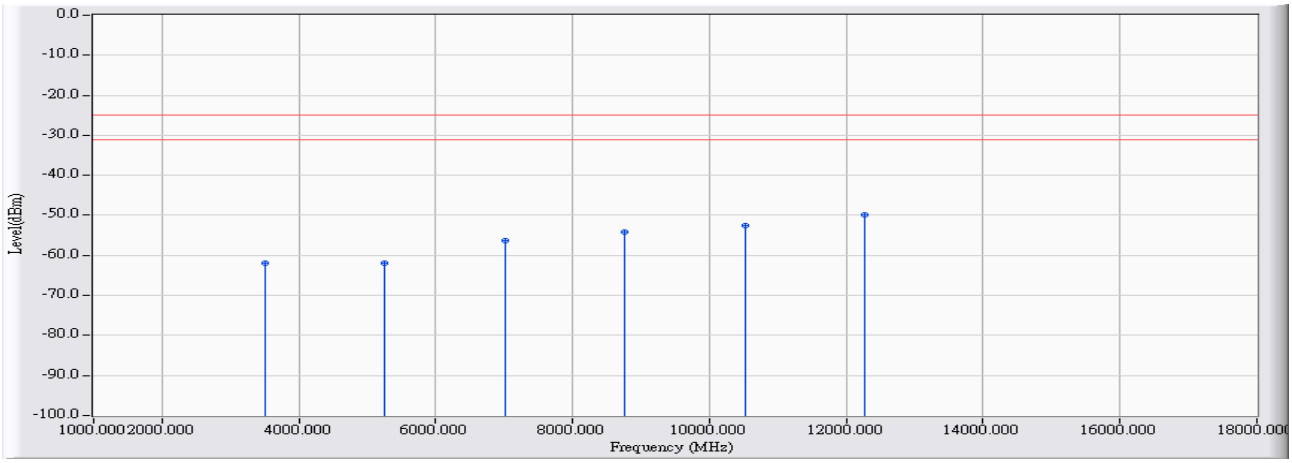


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBm)	Measure Level (dBm)	Margin (dB)	Limit (dBm)	Detector Type
1		3465.200	11.209	-71.480	-60.271	-35.271	-25.000	PEAK
2		5197.800	12.636	-74.500	-61.864	-36.864	-25.000	PEAK
3		6930.400	17.784	-75.750	-57.966	-32.966	-25.000	PEAK
4		8663.000	22.675	-76.850	-54.175	-29.175	-25.000	PEAK
5		10395.600	24.751	-78.590	-53.839	-28.839	-25.000	PEAK
6	*	12128.200	29.194	-77.790	-48.596	-23.596	-25.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB4-H	**Time : 2017/02/22**
Limit : FCC_Part27(outband)_00M_PK	**Margin : 6**
Probe : CB4-H_CE_Sub_B432_1-18GHz_3M_1116 - HORIZONTAL	**Power : DC 3.8V**
EUT : LE920A4-NA	**Note : Mode 4: WCDMA Band 4_HSDPA Mode_ 1752.6MHz**

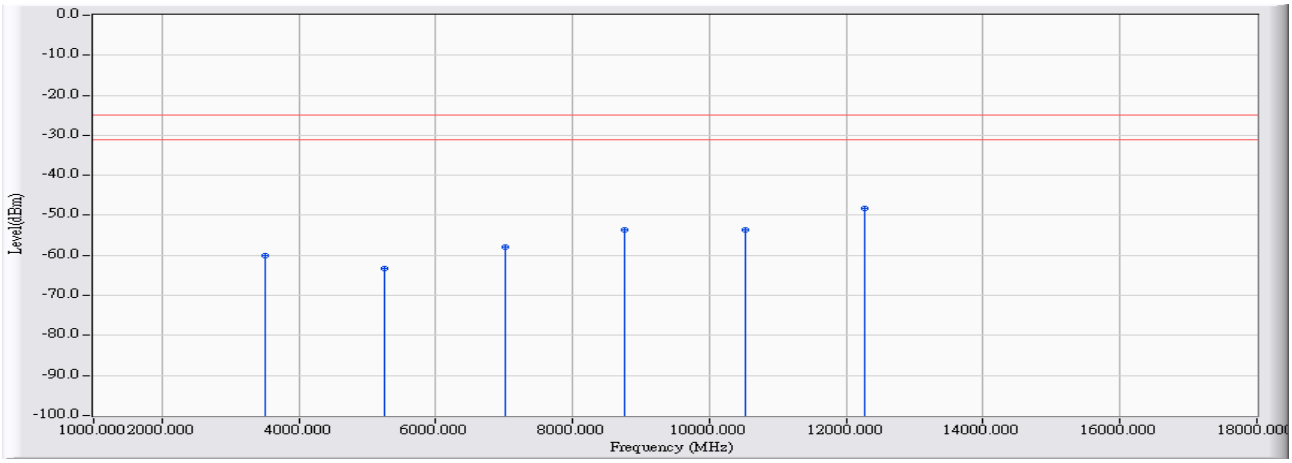


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBm)	Measure Level (dBm)	Margin (dB)	Limit (dBm)	Detector Type
1		3505.200	10.517	-72.410	-61.893	-36.893	-25.000	PEAK
2		5257.800	12.991	-74.840	-61.849	-36.849	-25.000	PEAK
3		7010.400	19.491	-75.860	-56.369	-31.369	-25.000	PEAK
4		8763.000	22.714	-76.970	-54.256	-29.256	-25.000	PEAK
5		10515.600	25.418	-77.890	-52.472	-27.472	-25.000	PEAK
6	*	12268.200	27.932	-77.710	-49.778	-24.778	-25.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB4-H	**Time : 2017/02/22**
Limit : FCC_Part27(outband)_00M_PK	**Margin : 6**
Probe : CB4-H_CE_Sub_B432_1-18GHz_3M_1116 - VERTICAL	**Power : DC 3.8V**
EUT : LE920A4-NA	**Note : Mode 4: WCDMA Band 4_HSDPA Mode_ 1752.6MHz**



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBm)	Measure Level (dBm)	Margin (dB)	Limit (dBm)	Detector Type
1		3505.200	11.340	-71.450	-60.111	-35.111	-25.000	PEAK
2		5257.800	12.734	-75.920	-63.186	-38.186	-25.000	PEAK
3		7010.400	17.956	-75.860	-57.904	-32.904	-25.000	PEAK
4		8763.000	23.192	-76.770	-53.577	-28.577	-25.000	PEAK
5		10515.600	24.638	-78.260	-53.622	-28.622	-25.000	PEAK
6	*	12268.200	29.516	-77.820	-48.304	-23.304	-25.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

8. Frequency Stability Over Temperatures Variation

8.1. Test Equipment

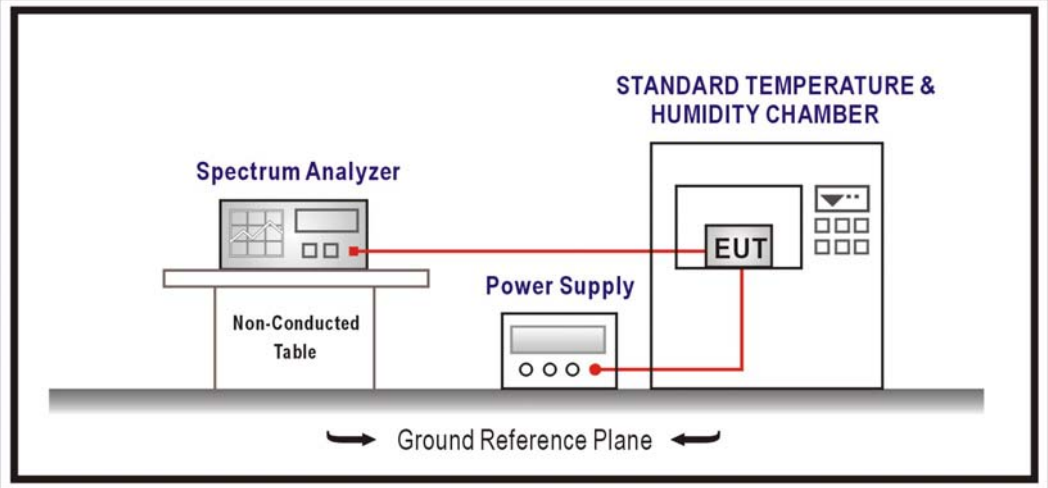
The following test equipments are used during the test:

Frequency Stability Over Temperatures Variation / SR10-H

Instrument	Manufacturer	Model No.	Serial No	Next Cal. Date
Signal & Spectrum Analyzer	R&S	FSV40	101049	2017/01/05
Temperature & Humidity Chamber	WIT	TH-1S-B	1082101	2017/01/18

Note: All equipments that need to calibrate are with calibration period of 1 year.

8.2. Test Setup



8.3. Limits

The frequency stability shall be measured with variation of ambient temperature as follows: From -30° to +50° centigrade for all equipment. Frequency measurements shall be made at the extremes of the specified temperature range and at intervals of not more than 10° centigrade through the range.

8.4. Test Procedure

Power must be turned off when changing from one temperature to another. Power warm up is at least 15 min and power applied should perform before recording frequency error. The temperature range step is 10 degrees in this test items. All temperature levels shall be holding the ± 0.5℃ during the measurement testing. The each temperature step shall be at least 0.5 hours, consider the EUT could be test under the stability condition.

8.5. Uncertainty

The measurement uncertainty is defined as ±100KHz

8.6. Test Result

Product	LE920A4-NA		
Test Item	Frequency Stability Over Temperatures Variation		
Test Mode	Mode 1: WCDMA Band 4_Link mode		
Date of Test	2016/12/28	Test Site	SR10-H

1712.4 MHz

Frequency Error Over Temperatures		
Temp. (^{o}C)	Frequency (MHz)	Frequency Error (ppm)
-30	-14	0.0080
-20	-14	0.0083
-10	-19	0.0110
0	-17	0.0098
+10	-7	0.0040
+20	16	-0.0094
+30	19	-0.0110
+40	19	-0.0112
+50	19	-0.0111

1732.6 MHz

Frequency Error Over Temperatures		
Temp. (^{o}C)	Frequency (MHz)	Frequency Error (ppm)
-30	5	-0.0028
-20	5	-0.0027
-10	5	-0.0029
0	-3	0.0018
+10	0	0.0000
+20	4	-0.0022
+30	-4	0.0025
+40	4	-0.0021
+50	-4	0.0023

1752.6 MHz

Frequency Error Over Temperatures		
Temp. (^{o}C)	Frequency (MHz)	Frequency Error (ppm)
-30	12	-0.0067
-20	19	-0.0106
-10	21	-0.0118
0	-21	0.0119
+10	10	-0.0056
+20	-14	0.0077
+30	-17	0.0099
+40	-18	0.0104
+50	-19	0.0109

9. Frequency Stability Over Voltage Variation

9.1. Test Equipment

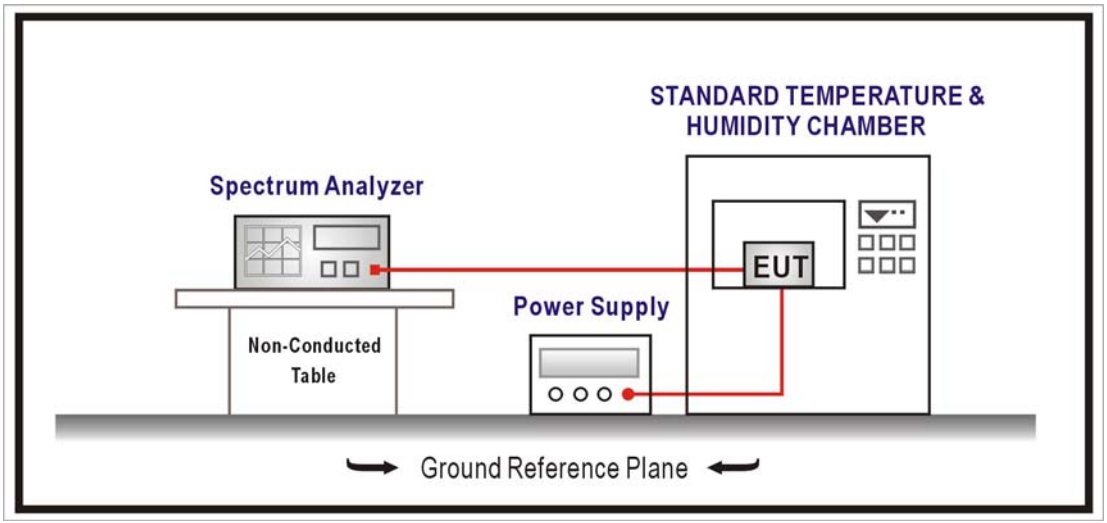
The following test equipments are used during the test:

Frequency Stability Over Voltage Variation / SR10-H

Instrument	Manufacturer	Model No.	Serial No	Next Cal. Date
Signal & Spectrum Analyzer	R&S	FSV40	101049	2017/01/05
Temperature & Humidity Chamber	WIT	TH-1S-B	1082101	2017/01/18

Note: All equipments that need to calibrate are with calibration period of 1 year.

9.2. Test Setup



9.3. Limits

The frequency stability shall be measured with variation of primary supply voltage as follows:

(1) Vary primary supply voltage from 85 to 115 percent of the nominal value for other than hand carried battery equipment.
(2) For hand carried, battery powered equipment, reduce primary supply voltage to the battery operating end point which shall be specified by the manufacturer.
(3) The supply voltage shall be measured at the input to the cable normally provided with the equipment, or at the power supply terminals if cables are not normally provided. Effects on frequency of transmitter keying (except for broadcast transmitters) and any heating element cycling at the nominal supply voltage and at each extreme also shall be shown.

9.4. Test Procedure

Power must be removed when changing from one voltage to another voltage. Power warm up is at least 15 min and power applied should perform before recording frequency error.

EUT is connected the external power supply to control the DC input power. The various Volts set from the minimum 4.5 Volts to 5.5 Volts. Each step shall be record the frequency error rate.

9.5. Uncertainty

The measurement uncertainty is defined as ±100KHz.

9.6. Test Result

Product	LE920A4-NA		
Test Item	Frequency Stability Over Voltage Variation		
Test Mode	Mode 1: WCDMA Band 4_Link mode		
Date of Test	2016/12/28	Test Site	SR10-H

1712.4 MHz

Frequency Error Over Voltage		
Voltage (Volts)	Frequency (MHz)	Frequency Error (ppm)
4.2	8	-0.0048
3.7	11	-0.0064
3.4	9	-0.0055

1712.4 MHz

Frequency Error Over Voltage		
Voltage (Volts)	Frequency (MHz)	Frequency Error (ppm)
4.2	6	-0.0035
3.7	-4	0.0023
3.4	5	-0.0030

1712.4 MHz

Frequency Error Over Voltage		
Voltage (Volts)	Frequency (MHz)	Frequency Error (ppm)
4.2	-8	0.0043
3.7	-9	0.0054
3.4	-9	0.0054