

FCC/ISED Variant Test Report

Product Name : LE910C4-NF
Trade Name : 
Model No. : LE910C4-NF
FCC ID : RI7LE910CXNF
IC ID : 5131A-LE910CXNF

Applicant : Telit Communications S.p.A.

Address : Via Stazione di Prosecco. 5/b, 34010, Sgonico, Trieste, Italy

Date of Receipt : Aug. 19, 2019
Issued Date : Dec. 23, 2019
Report No. : 1980255R-HPUSP17V00-B
Report Version : V1.0



The test results relate only to the samples tested.

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Test Report Certification

Issued Date: Dec. 23, 2019

Report No.: 1980255R-HPUSP17V00-B



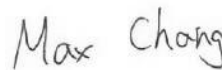
Product Name : LE910C4-NF
Applicant : Telit Communications S.p.A.
Address : Via Stazione di Prosecco. 5/b, 34010, Sgonico, Trieste, Italy
Manufacturer : TELIT WIRELESS SOLUTIONS CO., LTD
Address : 13th Fl., Shinyoung Securities Bld, 6, Gukjegeumyung-ro 8-gil,
Yeongdeungpo-gu, Seoul, 07330, Korea
Trade Name : **Telit**
Model No. : LE910C4-NF
FCC ID : RI7LE910CXNF
IC ID : 5131A-LE910CXNF
EUT Voltage : DC 3.8V
Testing Voltage : DC 3.8V
Applicable Standard : FCC CFR Title 47 Part 2, ANSI/TIA-603-D
FCC Part 22 Subpart H, FCC Part 24 Subpart E,
FCC Part 27 Subpart M
Industry Canada RSS-Gen, Issue 5
Industry Canada RSS-132, Issue 3
Industry Canada RSS-133, Issue 6
Industry Canada RSS-139, Issue 3
ANSI/TIA-603-D-2010
Test Lab : Hsin Chu Laboratory
Test Result : Complied

Documented By :



(Demi Chang / Senior Engineering Adm. Specialist)

Tested By :



(Max Chang / Senior Engineer)

Approved By :



(Louis Hsu / Deputy Manager)

Revision History

Report No.	Version	Description	Issued Date
1980255R-HPUSP17V00-B	V1.0	This is variant report. This test report is transferred from the original report (Report No.:1870209R-HPUSP17V00 for following changes: 1. Verify RF Output Power and Radiated Spurious Emission tests, (1) Not mounted DCDC component area removed, (2) some logic components shifted to secure soldering PADs due to shield frame change. 2.Revised the applicant company name and address. 3. Revised the manufacturer company name. 4. Modify the HW version: 1.10, SW version: C4 (M0F.660005-B004), C1 (M0F.260005-B004)	Dec. 23, 2019

TABLE OF CONTENTS

Description	Page
1. General Information	5
1.1. EUT Description	5
1.2. Report History	6
1.3. Mode of Operation	6
1.4. Tested System Details	7
1.5. Configuration of Tested System	7
1.6. EUT Exercise Software	7
2. Technical Test.....	8
2.1. Summary of Test Result.....	8
2.2. Test Environment	10
2.3. List of Test Equipment.....	11
2.4. Measurement Uncertainty	12
3. RF Output Power	13
3.1. Test Setup	13
3.2. Test Procedure.....	13
3.3. Test Method	13
3.4. Test Result	14
4. Spurious Emission	17
4.1. Test Setup	17
4.2. Test Procedure.....	18
4.3. Test Method	18
4.4. Test Result	19
Attachment 1.....	25
Test Setup Photograph.....	25
Attachment 2.....	29
EUT External Photograph	29
Attachment 3.....	34
EUT Internal Photograph	34

1. General Information

1.1. EUT Description

Product Name	LE910C4-NF
Trade Name	
Model No.	LE910C4-NF
Tx Frequency Range/ Channel number	WCDMA Band 2: 1852.4-1907.6 MHz WCDMA Band 4: 1712.4-1752.6 MHz WCDMA Band 5: 826.4-846.6 MHz
Rx Frequency Range/ Channel number	WCDMA Band 2: 1932.4-1987.6 MHz WCDMA Band 4: 2112.4-2152.6 MHz WCDMA Band 5: 871.4-891.6 MHz
Type of Modulation	WCDMA: QPSK (Uplink); HSDPA: QPSK (Uplink); HSUPA: QPSK (Uplink)
HW Version	1.10
SW (C4) Version	M0F.660005-B004
SW (C1) Version	M0F.260005-B004
IMEI No.	354328099989383

Accessories Information	
Antenna	3 Pcs

Antenna Information	
Product Name	HNS (HANKOOK NETWORK SOLUTION)
Model No.	WE14-LF-07
Antenna Type	Dipole Antenna
Antenna Gain	Band 2/4: 3.5dBi Band 5: 1.5dBi

Note:

1. This LE910C4-NF support WCDMA Band 2/4/5 and LTE Band 2/4/5/12/13/14/66/71.
2. Regards to the frequency band operation: the lowest, middle and highest frequency of channel were selected to perform the test, then shown on this report.
3. The EUT description is from the customer declaration.

1.2. Report History

Report No.	Version	Description	Issued Date
1870209R-HPUSP17V00	V1.0	Initial issue of report	Aug. 23, 2018
1980255R-HPUSP17V00-B	V1.0	This is variant report for following changes: 1. Verify RF Output Power and Radiated Spurious Emission tests, (1) Not mounted DCDC component area removed, (2) some logic components shifted to secure soldering PADs due to shield frame change. 2. Revised the applicant company name and address. 3. Revised the manufacturer company name. 4. Modify the HW version: 1.10, SW version: C4 (M0F.660005-B004), C1 (M0F.260005-B004)	Dec. 23, 2019

1.3. Mode of Operation

DEKRA has verified the construction and function in typical operation. All the test modes were carried out with the EUT in normal operation, which was shown in this test report and defined as:

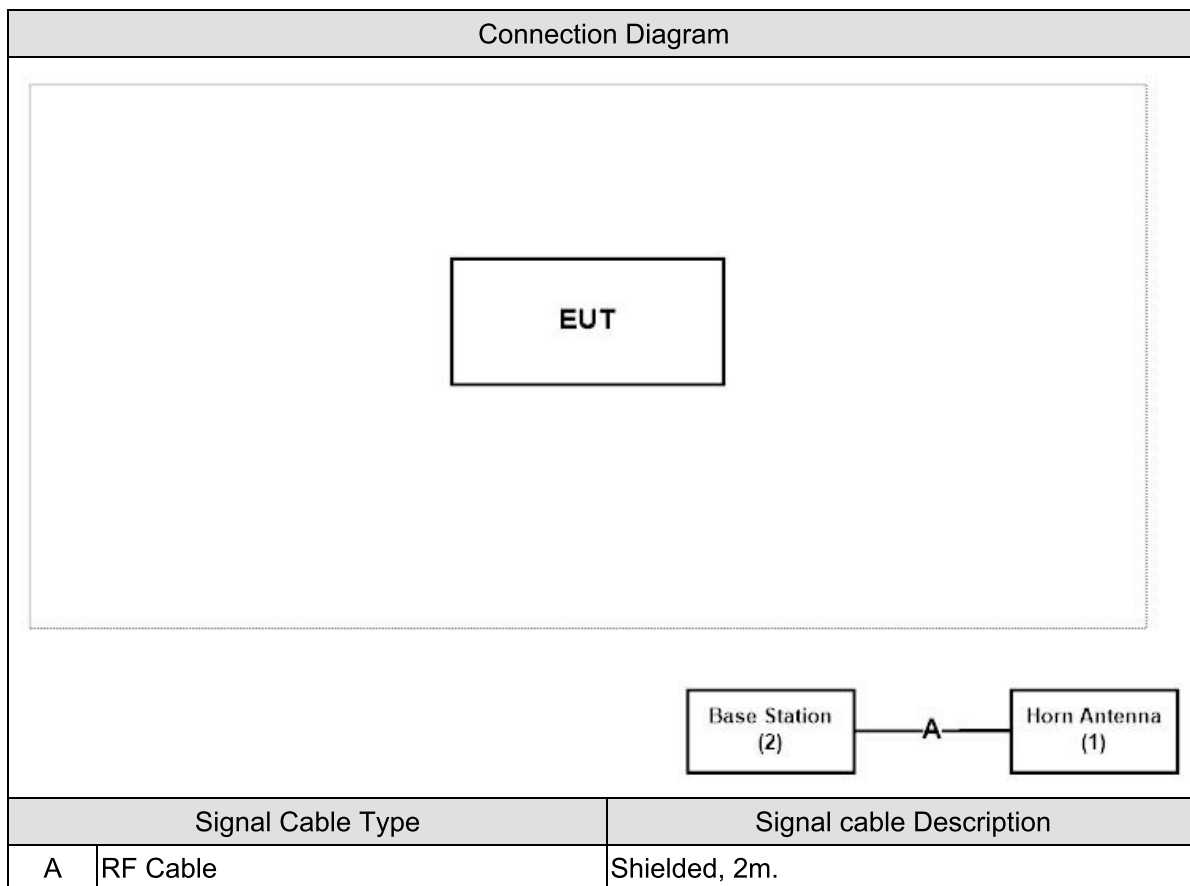
Test Mode
Mode 1: WCDMA Band 2
Mode 2: WCDMA Band 4
Mode 3: WCDMA Band 5

1.4. Tested System Details

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

Product	Manufacturer	Model No.	Serial No.	Power Cord
1 Horn Antenna	ELECTRO METRICS	EM-6961	103326	--
2 Base Station	R&S	CMW500	106071	--

1.5. Configuration of Tested System



1.6. EUT Exercise Software

1	Setup the EUT and simulators as shown on 1.4.
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.
4	Repeat the above procedure.

2. Technical Test

2.1. Summary of Test Result

- ☒ No deviations from the test standards
- ☐ Deviations from the test standards as below description:

For WCDMA Band 2

(FCC Part 24 Subpart E, Industry Canada RSS-133, Issue 6, Industry Canada RSS-GEN)

Performed Item	FCC Rule	IC Rule	Limit	Result
RF Output Power	§2.1033 §2.1046 §24.232	§6.4	< 2 Watts	Pass
Occupied Bandwidth	§2.1049	RSS-GEN §4.2	N/A	N/A
Peak To Average Ratio	§24.232(d)	§6.4	$\leq$ 13dB	N/A
Conducted Band Edge	§27.238	§6.5	< -13dBm	N/A
Spurious Emission	§2.1053 §24.238	§6.5	< -13dBm	Pass
Frequency Stability	§2.1055 §24.235	§6.3	< 2.5 ppm	N/A

For WCDMA Band 4**(FCC Part 27 Subpart M, Industry Canada RSS-139, Issue 3, Industry Canada RSS-GEN)**

Performed Item	FCC Rule	IC Rule	Limit	Result
RF Output Power	FCC PART 2.1046 and PART 27.50(h)(2)	RSS -139 §6.5	< 1 Watts EIRP	Pass
Occupied Bandwidth	FCC PART 2.1049 and PART 27.53(l)(6)	RSS - Gen §6.6	N/A	N/A
Peak To Average Ratio	§27.50(b)	§6.5	≤ 13dB	N/A
Conducted Band Edge	FCC PART 2.1051 and PART 27.53(l)(4)(6)	RSS - 139 §6.6	< -13 dBm	N/A
Spurious Emission	FCC PART 2.1051 and PART 27.53(l)(4)(6)	RSS - 139 §6.6	< -25 dBm	Pass
Frequency Stability	FCC PART 2.1055(a)(l) and PART 27.54	RSS - 139 §6.4	< 2.5 ppm	N/A

For WCDMA Band 5**(FCC Part 22 Subpart H, Industry Canada RSS-132, Issue 3, Industry Canada RSS-GEN)**

Performed Item	FCC Rule	IC Rule	Limit	Result
RF Output Power	§2.1033 §2.1046 §22.913	§5.4	< 7 Watts	Pass
Occupied Bandwidth	§2.1049	RSS-GEN §4.2	N/A	N/A
Peak To Average Ratio	§22.913(d)	§5.4	≤ 13dB	N/A
Conducted Band Edge	§22.917	§5.5	< -13dBm	N/A
Spurious Emission	§2.1053 §22.917	§5.5	< -13dBm	Pass
Frequency Stability	§2.1055 §22.335	§5.3	< 2.5 ppm	N/A

2.2. Test Environment

Items	Required	Test Site
Temperature (°C)	15-35	2 & 3
Humidity (%RH)	25-75	

Note: Test site information refers to Laboratory Information.

Laboratory Information

USA	:	FCC Registration Number: TW3024
Canada	:	IC Registration Number: 22397-1 / 22397-2 / 22397-3

The address and introduction of DEKRA Testing and Certification Co., Ltd. laboratories can be founded in our Web site: <http://www.dekra.com.tw>

If you have any comments, please don't hesitate to contact us. Our test sites as below:

Test Laboratory	DEKRA Testing and Certification Co., Ltd.
Address	1. No. 75-2, 3rd Lin, WangYe Keng, Yonghxing Tsuen, Qionglin Shiang, Hsinchu County 307, Taiwan, R.O.C. 2. No.372, Sec. 4, Zhongxing Rd., Zhudong Township, Hsinchu County 31061, Taiwan, R.O.C. 3. No.372-2, Sec. 4, Zhongxing Rd., Zhudong Township, Hsinchu County 31061, Taiwan, R.O.C.
Phone number	1. +886-3-592-8858 2. +886-3-582-8001 3. +886-3-582-8001
Fax number	1. +886-3-592-8859 2. +886-3-582-8958 3. +886-3-582-8958
E mail address	info.tw@dekra.com
Website	http://www.dekra.com.tw

2.3. List of Test Equipment

RF Output Power / SR10-H

Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date
Signal & Spectrum Analyzer	R&S	FSV40	101049	2019/09/11	2020/09/10
EXA Signal Analyzer	Keysight	N9010A	MY51440132	2019/03/15	2020/03/14
Spectrum Analyzer	Keysight	N9030B	MY57140404	2019/06/18	2020/06/17
Spectrum Analyzer	Keysight	N9010B	MY57110159	2019/05/03	2020/05/02
Wireless Conn. Tseter	R&S	CMW500	157118	2019/08/08	2020/08/07
Wideband Radio Communication Tester	R&S	CMW500	106071	2019/01/16	2020/01/15

Spurious Emissions (Radiated) / CB2-H

Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date
Horn Antenna	Schwarzbeck	BBHA 9120D	639	2019/05/28	2020/05/27
Bilog Antenna	Teseq	CBL6112D	23191	2019/06/17	2020/06/16
Signal & Spectrum Analyzer	R&S	FSV40	101049	2019/09/11	2020/09/10
EXA Signal Analyzer	Keysight	N9010A	MY51440132	2019/03/15	2020/03/14
Signal Analyzer	R&S	FSVA40	101455	2019/10/21	2020/10/20
Horn Antenna	Schwarzbeck	BBHA 9170	202	2019/01/16	2020/01/15
Pre-Amplifier	DEKRA	AP-400C	201801231	2019/12/03	2020/12/02
Pre-Amplifier	EMCI	EMC11830I	980366	2019/12/03	2020/12/02
Horn Antenna	Schwarzbeck	BBHA 9120D	01656	2019/10/25	2020/10/24
Pre-Amplifier	DEKRA	AP-025C	201801236	2019/09/24	2020/09/23
Signal Analyzer	R&S	FSV40	101435	2019/07/08	2020/07/07
Wideband Radio Communication Tester	R&S	CMW500	106071	2019/01/16	2020/01/15
Wireless Conn. Tseter	R&S	CMW500	157118	2019/08/08	2020/08/07
Coaxial Cable(16m)	Huber+Suhner	SF104	CB2-H	2019/07/25	2020/07/24
EMI system	DEKRA	Version 1.0	CB2-H	NA	NA

Note: All equipment upon which need to calibrated are with calibration period of 1 year.

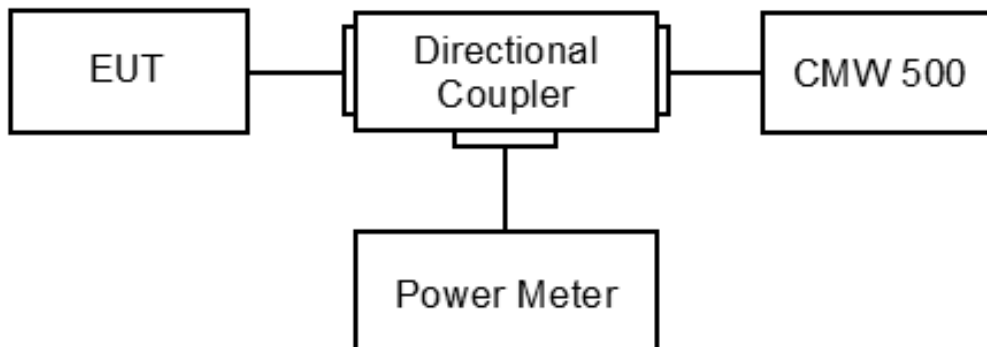
2.4. Measurement Uncertainty

Test Item	Uncertainty
RF Output Power	$\pm 1.27\text{dB}$
Spurious Emissions (Radiated)	$\pm 3.2\text{ dB}$

Note: Determining compliance shall be based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

3. RF Output Power

3.1. Test Setup



3.2. Test Procedure

- The RF output of the transmitter was connected to base station simulator.
- The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
- Set EUT at maximum average power by base station simulator.
- Measure lowest, middle, and highest channels for each bandwidth and different modulation.

Effective Isotropic Radiated Power = Conducted Power(dBm) + Antenna Gain(dBi)

Effective Radiated Power = Conducted Power(dBm) + Antenna Gain(dBi) - 2.15dB

3.3. Test Method

KDB 971168 D01 Power Meas License Digital Systems v03 sub-clause 5.2.4

ANSI C63.26-2015 Sub-clause 5.2.4.2

3.4. Test Result

Product	LE910C4-NF		
Test Item	RF Output Power		
Test Mode	Mode 1: WCDMA Band 2		
Date of Test	2019/11/26	Test Site	SR10-H
Temperature	23°C	Humidity	61%

Test Mode	Frequency (MHz)	Reading Level (dBm)	Antenna Gain (dBi)	Measure Level (dBm)	Measure Level (W)	Limit (W) EIRP
RMC	1852.4	24.63	3.5	28.130	0.650	2
	1880.0	24.44	3.5	27.940	0.622	2
	1907.6	24.29	3.5	27.790	0.601	2
HSUPA Subtest 5	1852.4	22.15	3.5	25.650	0.367	2
	1880.0	22.05	3.5	25.550	0.359	2
	1907.6	21.75	3.5	25.250	0.335	2
HSDPA Subtest 1	1852.4	22.09	3.5	25.590	0.362	2
	1880.0	21.78	3.5	25.280	0.337	2
	1907.6	21.71	3.5	25.210	0.332	2

Product	LE910C4-NF		
Test Item	RF Output Power		
Test Mode	Mode 2: WCDMA Band 4		
Date of Test	2019/11/26	Test Site	SR10-H
Temperature	23°C	Humidity	61%

Test Mode	Frequency (MHz)	Reading Level (dBm)	Antenna Gain (dBi)	Measure Level (dBm)	Measure Level (W)	Limit (W) EIRP
RMC	1712.4	24.64	3.5	28.140	0.652	1
	1732.6	24.93	3.5	28.430	0.697	1
	1752.6	25.03	3.5	28.530	0.713	1
HSUPA Subtest 1	1712.4	22.14	3.5	25.640	0.366	1
	1732.6	22.35	3.5	25.850	0.385	1
	1752.6	22.49	3.5	25.990	0.397	1
HSDPA Subtest 1	1712.4	22.09	3.5	25.590	0.362	1
	1732.6	22.41	3.5	25.910	0.390	1
	1752.6	22.54	3.5	26.040	0.402	1

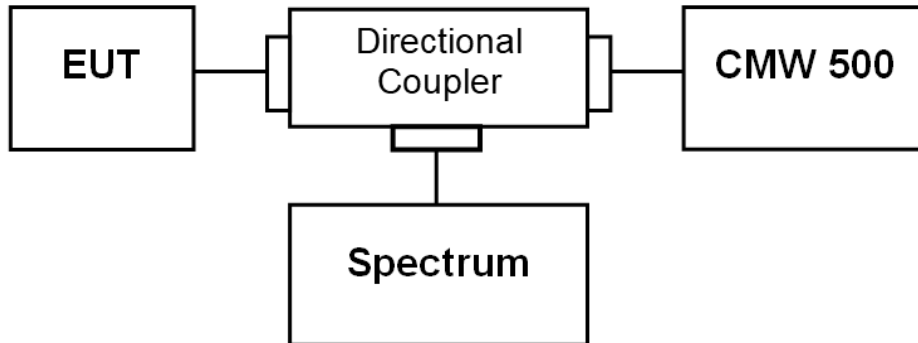
Product	LE910C4-NF		
Test Item	RF Output Power		
Test Mode	Mode 3: WCDMA Band 5		
Date of Test	2019/11/26	Test Site	SR10-H
Temperature	23°C	Humidity	61%

Test Mode	Frequency (MHz)	Reading Level (dBm)	Antenna Gain (dBi)	Measure Level (dBm)	Measure Level (W)	Limit (W) ERP
RMC	826.4	25.15	3	26.000	0.398	7
	836.6	24.94	3	25.790	0.379	7
	846.6	24.75	3	25.600	0.363	7
HSUPA Subtest 1	826.4	22.42	3	23.270	0.212	7
	836.6	22.44	3	23.290	0.213	7
	846.6	22.33	3	23.180	0.208	7
HSDPA Subtest 1	826.4	22.42	3	23.270	0.212	7
	836.6	22.28	3	23.130	0.206	7
	846.6	22.10	3	22.950	0.197	7

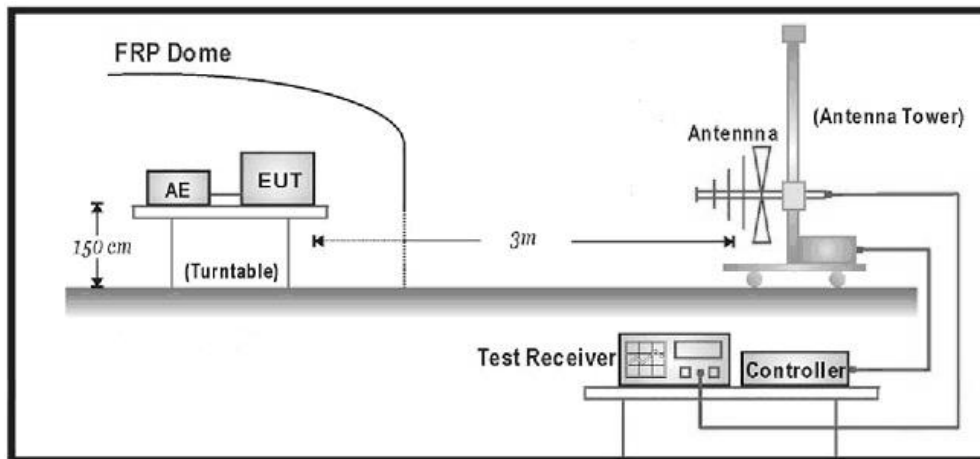
4. Spurious Emission

4.1. Test Setup

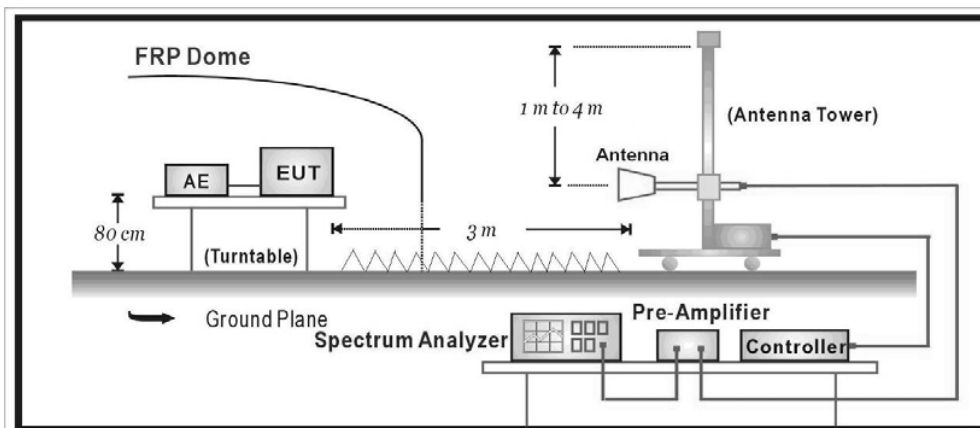
Conducted Spurious Measurement (below 1GHz)



Radiated Spurious Measurement (below 1GHz)



Radiated Spurious Measurement (above 1GHz)



4.2. Test Procedure

Conducted Spurious Measurement:

- a) Place the EUT on a bench and set it in transmitting mode.
- b) Connect a low loss RF cable from the antenna port to a spectrum analyzer and CMU200 by a Directional Couple.
- c) EUT Communicate with CMU200, then select a channel for testing.
- d) Add a correction factor to the display of spectrum, and then test.
- e) The resolution bandwidth of the spectrum analyzer was set at 1 MHz, sufficient scans were taken to show the out of band Emission if any up to 10th harmonic.

Radiated Spurious Measurement:

- a) The EUT was placed on a rotatable wooden table with 1.5 meter above ground.
- b) The EUT was set 3 meters from the receiving antenna, which was mounted on the antenna tower.
- c) The table was rotated 360 degrees to determine the position of the highest spurious emission.
- d) The height of the receiving antenna is varied between one meter and four meters to search the maximum spurious emission for both horizontal and vertical polarizations.
- e) Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 1MHz, Sweep 500ms, Taking the record of maximum spurious emission.
- f) A horn antenna was substituted in place of the EUT and was driven by a signal generator.
- g) Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
- h) Taking the record of output power at antenna port
- i) Repeat step 7 to step 8 for another polarization.
- j) $EIRP = SG - \text{Cable loss} + \text{Antenna Gain}$

4.3. Test Method

Conducted Spurious Measurement:

KDB 971168 D01 Power Meas License Digital Systems v03 sub-clause 6.1
ANSI C63.26-2015 Sub-clause 5.7

Radiated Spurious Measurement:

KDB 971168 D01 Power Meas License Digital Systems v03 sub-clause 5.8
ANSI C63.26-2015 Sub-clause 5.5.3.2

4.4. Test Result

Product	LE910C4-NF		
Test Item	Radiated Spurious Emission		
Test Mode	Mode 1: WCDMA Band 2		
Date of Test	2019/12/03	Test Site	CB2-H
Temperature	25.0°C	Humidity	55.0%

CH 9262_RMC

Antenna Polarity	Frequency (MHz)	Emission Level (dBm)	Limit (dBm)	Margin (dB)	SG Level (dBm)	Antenna Gain (dBi)	Cable Loss (dB)
H	3704.800	-49.50	-13	-36.50	-57.59	12.61	4.51
	5557.200	-47.61	-13	-34.61	-55.06	13.12	5.67
	7409.600	-44.33	-13	-31.33	-49.04	11.31	6.60
	9260.000	-42.66	-13	-29.66	-47.27	11.83	7.21
	11114.400	-41.51	-13	-28.51	-45.23	11.68	7.96
	12966.800	-42.96	-13	-29.96	-47.94	13.62	8.64
V	3704.800	-45.84	-13	-32.84	-53.93	12.61	4.51
	5557.200	-43.59	-13	-30.59	-51.04	13.12	5.67
	7049.600	-44.31	-13	-31.31	-49.37	11.61	6.54
	9260.000	-43.82	-13	-30.82	-48.43	11.83	7.21
	11114.400	-41.83	-13	-28.83	-45.55	11.68	7.96
	12966.800	-43.55	-13	-30.55	-48.53	13.62	8.64

Emission Level=SG(Signal Generator) Level+Antenna Gain-Cable Loss.

CH 9400_RMC

Antenna Polarity	Frequency (MHz)	Emission Level (dBm)	Limit (dBm)	Margin (dB)	SG Level (dBm)	Antenna Gain (dBi)	Cable Loss (dB)
H	3760.000	-51.46	-13	-38.46	-59.53	12.60	4.54
	5640.000	-46.38	-13	-33.38	-53.78	13.10	5.70
	7520.000	-44.52	-13	-31.52	-49.14	11.24	6.61
	9400.000	-42.89	-13	-29.89	-47.39	11.79	7.29
	11280.000	-40.79	-13	-27.79	-44.65	11.92	8.06
	13160.000	-41.66	-13	-28.66	-46.28	13.33	8.70
V	3760.000	-48.47	-13	-35.47	-56.54	12.60	4.54
	5640.000	-41.48	-13	-28.48	-48.88	13.10	5.70
	7520.000	-44.28	-13	-31.28	-48.90	11.24	6.61
	9400.000	-43.84	-13	-30.84	-48.34	11.79	7.29
	11280.000	-41.36	-13	-28.36	-45.22	11.92	8.06
	13160.000	-41.38	-13	-28.38	-46.00	13.33	8.70

Emission Level=SG(Signal Generator) Level+Antenna Gain-Cable Loss.

CH 9538_RMC

Antenna Polarity	Frequency (MHz)	Emission Level (dBm)	Limit (dBm)	Margin (dB)	SG Level (dBm)	Antenna Gain (dBi)	Cable Loss (dB)
H	3815.200	-51.33	-13	-38.33	-59.37	12.60	4.57
	5722.800	-44.72	-13	-31.72	-52.07	13.08	5.73
	7630.400	-44.77	-13	-31.77	-49.41	11.24	6.60
	9540.000	-42.71	-13	-29.71	-47.15	11.79	7.35
	11445.600	-41.75	-13	-28.75	-45.75	12.15	8.15
	13353.200	-40.56	-13	-27.56	-44.80	13.00	8.76
V	3815.200	-50.05	-13	-37.05	-58.09	12.60	4.57
	5722.800	-40.39	-13	-27.39	-47.74	13.08	5.73
	7630.400	-44.43	-13	-31.43	-49.07	11.24	6.60
	9540.000	-42.89	-13	-29.89	-47.33	11.79	7.35
	11445.600	-42.56	-13	-29.56	-46.56	12.15	8.15
	13353.200	-40.27	-13	-27.27	-44.51	13.00	8.76

Emission Level=SG(Signal Generator) Level+Antenna Gain-Cable Loss.

Product	LE910C4-NF		
Test Item	Radiated Spurious Emission		
Test Mode	Mode 2: WCDMA Band 4		
Date of Test	2019/12/03	Test Site	CB2-H
Temperature	25.0°C	Humidity	55.0%

CH 1312_RMC

Antenna Polarity	Frequency (MHz)	Emission Level (dBm)	Limit (dBm)	Margin (dB)	SG Level (dBm)	Antenna Gain (dBi)	Cable Loss (dB)
H	3424.800	-52.68	-13	-39.68	-60.77	12.45	4.36
	5137.200	-48.25	-13	-35.25	-55.64	12.78	5.39
	6849.600	-45.91	-13	-32.91	-51.37	11.83	6.37
	8560.000	-43.86	-13	-30.86	-48.82	11.87	6.91
	10274.400	-42.60	-13	-29.60	-46.83	11.85	7.62
	11986.800	-42.91	-13	-29.91	-47.84	13.15	8.22
V	3424.800	-49.17	-13	-36.17	-57.26	12.45	4.36
	5137.200	-38.13	-13	-25.13	-45.52	12.78	5.39
	6849.600	-46.09	-13	-33.09	-51.55	11.83	6.37
	8560.000	-42.46	-13	-29.46	-47.42	11.87	6.91
	10274.400	-41.63	-13	-28.63	-45.86	11.85	7.62
	11986.800	-42.61	-13	-29.61	-47.54	13.15	8.22

Emission Level=SG(Signal Generator) Level+Antenna Gain-Cable Loss.

CH 1413_RMC

Antenna Polarity	Frequency (MHz)	Emission Level (dBm)	Limit (dBm)	Margin (dB)	SG Level (dBm)	Antenna Gain (dBi)	Cable Loss (dB)
H	3465.200	-53.59	-13	-40.59	-61.74	12.53	4.38
	5197.800	-46.98	-13	-33.98	-54.39	12.84	5.43
	6930.400	-45.64	-13	-32.64	-50.91	11.73	6.46
	8660.000	-42.91	-13	-29.91	-47.84	11.87	6.95
	10395.600	-42.41	-13	-29.41	-46.47	11.75	7.69
	12128.200	-42.23	-13	-29.23	-47.32	13.35	8.26
V	3465.200	-51.43	-13	-38.43	-59.58	12.53	4.38
	5197.800	-39.03	-13	-26.03	-46.44	12.84	5.43
	6930.400	-44.53	-13	-31.53	-49.80	11.73	6.46
	8660.000	-42.99	-13	-29.99	-47.92	11.87	6.95
	10395.600	-42.39	-13	-29.39	-46.45	11.75	7.69
	12128.200	-42.01	-13	-29.01	-47.10	13.35	8.26

Emission Level=SG(Signal Generator) Level+Antenna Gain-Cable Loss.

CH 1513_RMC

Antenna Polarity	Frequency (MHz)	Emission Level (dBm)	Limit (dBm)	Margin (dB)	SG Level (dBm)	Antenna Gain (dBi)	Cable Loss (dB)
H	3505.200	-53.37	-13	-40.37	-61.57	12.61	4.41
	5527.800	-46.88	-13	-33.88	-54.35	13.13	5.66
	7010.400	-44.02	-13	-31.02	-49.12	11.64	6.54
	8760.000	-43.62	-13	-30.62	-48.52	11.88	6.98
	10515.600	-42.53	-13	-29.53	-46.44	11.66	7.75
	12268.200	-42.90	-13	-29.90	-48.14	13.54	8.30
V	3505.200	-51.33	-13	-38.33	-59.53	12.61	4.41
	5527.800	-51.13	-13	-38.13	-58.60	13.13	5.66
	7010.400	-43.87	-13	-30.87	-48.97	11.64	6.54
	8760.000	-44.30	-13	-31.30	-49.20	11.88	6.98
	10515.600	-42.58	-13	-29.58	-46.49	11.66	7.75
	12268.200	-42.89	-13	-29.89	-48.13	13.54	8.30

Emission Level=SG(Signal Generator) Level+Antenna Gain-Cable Loss.

Product	LE910C4-NF		
Test Item	Radiated Spurious Emission		
Test Mode	Mode 3: WCDMA Band 5		
Date of Test	2019/12/03	Test Site	CB2-H
Temperature	25.0°C	Humidity	55.0%

CH 4132_RMC

Antenna Polarity	Frequency (MHz)	Emission Level (dBm)	Limit (dBm)	Margin (dB)	SG Level (dBm)	Antenna Gain (dBi)	Cable Loss (dB)
H	1652.800	-57.42	-13	-44.42	-63.73	9.30	2.99
	2479.200	-45.33	-13	-32.33	-52.23	10.59	3.69
	3305.600	-46.86	-13	-33.86	-54.78	12.19	4.27
	4130.000	-50.50	-13	-37.50	-58.37	12.62	4.75
	4958.400	-50.88	-13	-37.88	-58.26	12.65	5.27
	5784.800	-49.80	-13	-36.80	-57.11	13.06	5.75
V	1652.800	-53.36	-13	-40.36	-59.67	9.30	2.99
	2479.200	-40.38	-13	-27.38	-47.28	10.59	3.69
	3305.600	-43.43	-13	-30.43	-51.35	12.19	4.27
	4130.000	-51.21	-13	-38.21	-59.08	12.62	4.75
	4958.400	-50.62	-13	-37.62	-58.00	12.65	5.27
	5784.800	-49.69	-13	-36.69	-57.00	13.06	5.75

Emission Level=SG(Signal Generator) Level+Antenna Gain-Cable Loss.

CH 4183_RMC

Antenna Polarity	Frequency (MHz)	Emission Level (dBm)	Limit (dBm)	Margin (dB)	SG Level (dBm)	Antenna Gain (dBi)	Cable Loss (dB)
H	1673.200	-57.37	-13	-44.37	-63.72	9.36	3.01
	2509.800	-41.89	-13	-28.89	-48.80	10.62	3.71
	3346.400	-49.14	-13	-36.14	-57.12	12.28	4.30
	4180.000	-51.28	-13	-38.28	-59.12	12.62	4.78
	5019.600	-50.53	-13	-37.53	-57.89	12.67	5.31
	5856.200	-48.65	-13	-35.65	-55.92	13.04	5.77
V	1673.200	-54.55	-13	-41.55	-60.90	9.36	3.01
	2509.800	-38.42	-13	-25.42	-45.33	10.62	3.71
	3346.400	-43.00	-13	-30.00	-50.98	12.28	4.30
	4180.000	-51.09	-13	-38.09	-58.93	12.62	4.78
	5019.600	-49.96	-13	-36.96	-57.32	12.67	5.31
	5856.200	-48.54	-13	-35.54	-55.81	13.04	5.77

Emission Level=SG(Signal Generator) Level+Antenna Gain-Cable Loss.

CH 4233_RMC

Antenna Polarity	Frequency (MHz)	Emission Level (dBm)	Limit (dBm)	Margin (dB)	SG Level (dBm)	Antenna Gain (dBi)	Cable Loss (dB)
H	1693.200	-55.38	-13	-42.38	-61.77	9.42	3.03
	2539.800	-36.48	-13	-23.48	-43.42	10.67	3.73
	3386.400	-42.00	-13	-29.00	-50.04	12.36	4.33
	4230.000	-50.79	-13	-37.79	-58.60	12.63	4.81
	5079.600	-50.08	-13	-37.08	-57.46	12.73	5.35
	5926.200	-49.49	-13	-36.49	-56.72	13.02	5.79
V	1693.200	-54.73	-13	-41.73	-61.12	9.42	3.03
	2539.800	-32.32	-13	-19.32	-39.26	10.67	3.73
	3386.400	-37.27	-13	-24.27	-45.31	12.36	4.33
	4230.000	-50.05	-13	-37.05	-57.86	12.63	4.81
	5079.600	-50.78	-13	-37.78	-58.16	12.73	5.35
	5926.200	-48.80	-13	-35.80	-56.03	13.02	5.79

Emission Level=SG(Signal Generator) Level+Antenna Gain-Cable Loss.