

FCC RF Test Report

(LTE)

Report No.: JYTSZ-R12-2400727
Applicant: INFINIX MOBILITY LIMITED
Address of Applicant: FLAT N 16/F BLOCK B UNIVERSAL INDUSTRIAL CENTRE
19-25 SHAN MEI STREET FOTAN NT HONGKONG

Equipment Under Test (EUT)

Product Name: Mobile Phone
Model No.: X6881
Trade Mark: Infinix

FCC ID: 2AIZN-YY5-X6881

Applicable Standards: FCC CFR Title 47 Part 2, 22H, 24E, 27L&F& H& M, 90S

Date of Sample Receipt: 27 Jun., 2024
Date of Test: 28 Jun., to 16 Aug., 2024
Date of Report Issued: 19 Aug., 2024

Test Result: PASS

Tested by:

Vieta Zhang

Project Engineer

Date:

19 Aug., 2024

Reviewed by:

W. Ding

Senior Engineer

Date:

19 Aug., 2024

Approved by:

James Wei

Manager

Date:

19 Aug., 2024

This equipment has been shown to be capable of compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in above the application standard version. Test results reported herein relate only to the item(s) tested.

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1 Version

Version No.	Date	Description
00	19 Aug., 2024	Original

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3 General Information

3.1 Client Information

Applicant:	INFINIX MOBILITY LIMITED
Address:	FLAT N 16/F BLOCK B UNIVERSAL INDUSTRIAL CENTRE 19-25 SHAN MEI STREET FOTAN NT HONGKONG
Manufacturer:	INFINIX MOBILITY LIMITED
Address:	FLAT N 16/F BLOCK B UNIVERSAL INDUSTRIAL CENTRE 19-25 SHAN MEI STREET FOTAN NT HONGKONG
Factory:	SHENZHEN TECNO TECHNOLOGY CO., LTD.
Address:	101, Building 24, Waijing Industrial Park, Fumin Community, Fucheng Street, Longhua District, Shenzhen City, P.R.China

3.2 General Description of E.U.T.

Product Name:	Mobile Phone	
Model No.:	X6881	
Operation Frequency Range:	LTE band 2:	Tx: 1850 MHz - 1910 MHz Rx: 1930 MHz - 1990 MHz
	LTE band 4:	Tx: 1710 MHz - 1755 MHz Rx: 2110 MHz - 2155 MHz
	LTE band 5:	Tx: 824 MHz - 849 MHz Rx: 869 MHz - 894 MHz
	LTE band 7:	Tx: 2500 MHz - 2570 MHz Rx: 2620 MHz - 2690 MHz
	LTE band 12:	Tx: 699 MHz - 716 MHz Rx: 729 MHz - 746 MHz
	LTE band 13:	Tx: 777 MHz - 787 MHz Rx: 746 MHz - 756 MHz
	LTE band 17:	Tx: 704 MHz - 716 MHz Rx: 734 MHz - 746 MHz
	LTE band 25:	Tx: 1850 MHz - 1915 MHz Rx: 1930 MHz - 1995 MHz
	LTE band 26:	Tx: 814 MHz - 849 MHz Rx: 859 MHz - 894 MHz
	LTE band 38:	Tx: 2570 MHz - 2620 MHz Rx: 2570 MHz - 2620 MHz
	LTE band 41:	Tx: 2496 MHz - 2690 MHz Rx: 2496 MHz - 2690 MHz
	LTE band 66:	Tx: 1710 MHz - 1780 MHz Rx: 2110 MHz - 2200 MHz
	LTE CA(UL):	CA_2C, CA_5B, CA_7C, CA_38C, CA_41C, CA_66C
	Modulation Type:	<input checked="" type="checkbox"/> QPSK <input checked="" type="checkbox"/> 16QAM <input checked="" type="checkbox"/> 64QAM
Antenna Type:	Internal Antenna	
Antenna Gain:	LTE band 2 & CA_2C:	ANT0: -1.84 dBi (declare by Applicant) ANT2: -3.12 dBi (declare by Applicant)
	LTE band 4:	ANT0: -0.85 dBi (declare by Applicant) ANT2: -4.45 dBi (declare by Applicant)
	LTE band 5 & CA_5B:	ANT0: -6.69 dBi (declare by Applicant) ANT2: -6.34 dBi (declare by Applicant)
	LTE band 7 & CA_7C:	ANT0: -1.02 dBi (declare by Applicant) ANT2: -3.47 dBi (declare by Applicant)
	LTE band 12:	ANT0: -7.05 dBi (declare by Applicant) ANT2: -7.92 dBi (declare by Applicant)
	LTE band 13:	ANT0: -7.08 dBi (declare by Applicant) ANT2: -9.02 dBi (declare by Applicant)
	LTE band 17:	ANT0: -7.05 dBi (declare by Applicant) ANT2: -7.92 dBi (declare by Applicant)
	LTE band 25:	ANT0: -1.84 dBi (declare by Applicant) ANT2: -3.12 dBi (declare by Applicant)
	LTE band 26:	ANT0: -6.69 dBi (declare by Applicant) ANT2: -6.34 dBi (declare by Applicant)

	LTE band 38 & CA_38C:	ANT0: -1.02 dBi (declare by Applicant)
		ANT2: -3.47 dBi (declare by Applicant)
	LTE band 41 & CA_41C:	ANT0: -1.02 dBi (declare by Applicant)
		ANT2: -3.47 dBi (declare by Applicant)
	LTE band 66 & CA_66C:	ANT0: -0.85 dBi (declare by Applicant)
		ANT2: -4.45 dBi (declare by Applicant)
Power Supply:	Rechargeable Li-ion Polymer Battery DC3.87V, 4900mAh	
AC Adapter:	Model: U330XSB Input: AC100-240V, 50/60Hz, 1.5A Output: DC 5.0V, 3.0A 15.0W or 5.0-10.0V, 3.3A or 11.0V, 3.0A 33.0W MAX	
Test Sample Condition:	The test samples were provided in good working order with no visible defects.	

3.3 Test Mode and Environment

Test Mode:	
QPSK mode:	Keep the EUT communication with simulated station in QPSK mode
16QAM mode:	Keep the EUT communication with simulated station in 16QAM mode
64QAM mode:	Keep the EUT communication with simulated station in 64QAM mode
<i>Remark: The EUT has been tested under continuous transmitting mode. Channel Low, Mid and High for each type band with rated data rate were chosen for full testing. The field strength of spurious radiation emission was measured as EUT stand-up position (H mode) and lie down position (E1, E2 mode) for these modes. Just the worst case position (H mode) shown in report.</i>	
Operating Environment:	
Temperature:	Normal: 15°C ~ 35°C, Extreme: -30°C ~ +50°C
Humidity:	20 % ~ 75 % RH
Atmospheric Pressure:	1008 mbar
Voltage:	Nominal: 3.87 Vdc, Extreme: Low 3.45 Vdc, High 4.45 Vdc
Test Engineer:	Lao Lu(Conducted measurement) Alan Chen (Radiated measurement)

3.4 Description of Test Auxiliary Equipment

Test Equipment	Manufacturer	Model No.	Serial No.
Simulated Station	Anritsu	MT8820C	6201026545
Simulated Station	Rohde & Schwarz	CMW500	108209

3.5 Measurement Uncertainty

Parameter	Expanded Uncertainty (Confidence of 95%(U = 2Uc(y)))
Radiated Emission (30MHz ~ 200MHz) (3m SAC)	4.6 dB
Radiated Emission (200MHz ~ 1000MHz) (3m SAC)	5.8 dB
Radiated Emission (1GHz ~ 6GHz) (3m FAR)	4.95 dB
Radiated Emission (6GHz ~ 18GHz) (3m FAR)	5.23 dB
Radiated Emission (18GHz ~ 40GHz) (3m FAR)	5.32 dB

Note: All the measurement uncertainty value were shown with a coverage k=2 to indicate 95% level of confidence. The measurement data show herein meets or exceeds the CISPR measurement uncertainty values specified in CISPR 16-4-2 and can be compared directly to specified limit to determine compliance.

3.6 Additions to, Deviations, or Exclusions from the Method

No

3.7 Laboratory Facility

<p>The test facility is recognized, certified, or accredited by the following organizations:</p> <ul style="list-style-type: none"> ● FCC - Designation No.: CN1211 JianYan Testing Group Shenzhen Co., Ltd. has been accredited as a testing laboratory by FCC(Federal Communications Commission). The test firm Registration No. is 727551. ● ISED – CAB identifier.: CN0021 The 3m Semi-anechoic chamber and 10m Semi-anechoic chamber of JianYan Testing Group Shenzhen Co., Ltd. has been Registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 10106A-1. ● CNAS - Registration No.: CNAS L15527 JianYan Testing Group Shenzhen Co., Ltd. is accredited to ISO/IEC 17025:2017 General Requirements for the Competence of Testing and Calibration laboratories for the competence of testing. The Registration No. is CNAS L15527. ● A2LA - Registration No.: 4346.01 This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 General requirements for the competence of testing and calibration laboratories. The test scope can be found as below link: https://portal.a2la.org/scopepdf/4346-01.pdf
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3.8 Laboratory Location

<p>JianYan Testing Group Shenzhen Co., Ltd. Address: No.101, Building 8, Innovation Wisdom Port, No.155 Hongtian Road, Huangpu Community, Xinqiao Street, Bao'an District, Shenzhen, Guangdong, People's Republic of China. Tel: +86-755-23118282, Fax: +86-755-23116366 Email: info-JYTee@lets.com, Website: http://jyt.lets.com</p>
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3.9 Test Instruments List

Radiated Emission(3m SAC):					
Test Equipment	Manufacturer	Model No.	Manage No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)
3m SAC	ETS	9m*6m*6m	WXJ001-1	04-14-2021	04-13-2026
Loop Antenna	Schwarzbeck	FMZB 1519 B	WXJ002-4	01-05-2024	01-04-2025
BiConiLog Antenna	Schwarzbeck	VULB9163	WXJ002	01-09-2024	01-08-2025
Biconical Antenna	Schwarzbeck	VUBA9117	WXJ002-1	07-02-2021	07-01-2024
				07-01-2024	06-30-2025
Horn Antenna	Schwarzbeck	BBHA9120D	WXJ002-2	01-05-2024	01-04-2025
Horn Antenna	Schwarzbeck	BBHA9120D	WXJ002-3	12-28-2023	12-27-2024
Horn Antenna	Schwarzbeck	BBHA9170	WXJ002-5	12-28-2023	12-27-2024
Horn Antenna	Schwarzbeck	BBHA9170	WXJ002-6	12-28-2023	12-27-2024
Pre-amplifier (30MHz ~ 1GHz)	Schwarzbeck	BBV9743B	WXJ001-2	12-27-2023	12-26-2024
Pre-amplifier (1GHz ~ 18GHz)	SKET	LNPA_0118G-50	WXJ001-3	12-27-2023	12-26-2024
Pre-amplifier (18GHz ~ 40GHz)	RF System	TRLA-180400G45B	WXJ002-7	12-28-2023	12-27-2024
EMI Test Receiver	Rohde & Schwarz	ESRP7	WXJ003-1	12-27-2023	12-26-2024
Spectrum Analyzer	Rohde & Schwarz	FSP 30	WXJ004	12-27-2023	12-26-2024
Spectrum Analyzer	KEYSIGHT	N9010B	WXJ004-2	09-25-2023	09-24-2024
Coaxial Cable (30MHz ~ 1GHz)	JYTSZ	JYT3M-1G-NN-8M	WXG001-4	01-17-2024	01-16-2025
Coaxial Cable (1GHz ~ 18GHz)	JYTSZ	JYT3M-18G-NN-8M	WXG001-5	01-17-2024	01-16-2025
Coaxial Cable (18GHz ~ 40GHz)	JYTSZ	JYT3M-40G-SS-8M	WXG001-7	01-17-2024	01-16-2025
Band Reject Filter Group	Tonscend	JS0806-F	WXJ089	N/A	
Test Software	Tonscend	TS+	Version: 3.0.0.1		

Radiated Emission(3m FAR):					
Test Equipment	Manufacturer	Model No.	Manage No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)
3m FAR	YUNYI	9m*6m*6m	WXJ097	06-15-2023	06-14-2028
BiConiLog Antenna	Schwarzbeck	VULB9163	WXJ097-2	07-13-2023	07-12-2024
				07-01-2024	06-30-2025
Biconical Antenna	Schwarzbeck	VUBA9117	WXJ002-1	07-02-2021	07-01-2024
				07-01-2024	06-30-2025
Horn Antenna	Schwarzbeck	BBHA9120D	WXJ097-3	06-16-2024	06-15-2025
Horn Antenna	Schwarzbeck	BBHA9120D	WXJ002-3	12-28-2023	12-27-2024
Horn Antenna	Schwarzbeck	BBHA9170	WXJ002-5	12-28-2023	12-27-2024
Horn Antenna	Schwarzbeck	BBHA9170	WXJ002-6	12-28-2023	12-27-2024
Pre-amplifier (30MHz ~ 1GHz)	YUNYI	PAM-310N	WXJ097-5	04-24-2024	04-23-2025
Pre-amplifier (1GHz ~ 18GHz)	YUNYI	PAM-118N	WXJ097-6	04-24-2024	04-23-2025
Pre-amplifier (18GHz ~ 40GHz)	RF System	TRLA-180400G45B	WXJ002-7	12-28-2023	12-27-2024
EMI Test Receiver	Rohde & Schwarz	ESCI3	WXJ003	12-27-2023	12-26-2024
Spectrum Analyzer	Rohde & Schwarz	FSP 30	WXJ004	12-27-2023	12-26-2024
Spectrum Analyzer	KEYSIGHT	N9010B	WXJ081-1	06-11-2024	06-10-2025
Coaxial Cable (30MHz ~ 1GHz)	JYTSZ	JYT3M-1G-NN-13M	WXG097-1	08-01-2023	07-31-2024
				07-30-2024	07-29-2025
Coaxial Cable (1GHz ~ 18GHz)	JYTSZ	JYT3M-18G-NN-8M	WXG097-2	08-01-2023	07-31-2024
				07-30-2024	07-29-2025
Coaxial Cable (18GHz ~ 40GHz)	JYTSZ	JYT3M-40G-SS-8M	WXG097-3	08-01-2023	07-31-2024
				07-30-2024	07-29-2025
High Band Reject Filter Group	Tonscend	JS0806-F	WXJ089	N/A	
Low Band Reject Filter Group	Tonscend	JS0806-F	WXJ097-4	N/A	
Test Software	Tonscend	TS+	Version: 5.0.0		

Conducted Method:					
Test Equipment	Manufacturer	Model No.	Manage No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)
Spectrum Analyzer	Keysight	N9020A	WXJ094	09-25-2023	09-24-2024
Simulated Station	Rohde & Schwarz	CMW500	WXJ081	06-11-2024	06-10-2025
Temperature Humidity Chamber	ZHONG ZHI	CZ-A-80D	WXJ032-3	01-09-2023	01-08-2025
DC Power Supply	Keysight	E3642A	WXJ025-2	N/A	
RF Control Unit	Tonscend	JS0806-1	WXG010	N/A	
Band Reject Filter Group	Tonscend	JS0806-F	WXG010-1	N/A	
Test Software	Tonscend	TS+	Version: 2.6.9.0526		

4 Measurement Setup and Procedure

4.1 Test Channel

According to ANSI C63.26-2015 chapter 5.1.2.1 Table 2 requirement, select lowest channel, middle channel, and highest channel in the frequency range in which device operates for testing. The detailed frequency points are as follows:

LTE band 7					
Channels		Frequency (MHz)	Channels		Frequency (MHz)
5 MHz			10 MHz		
Lowest channel	20775	2502.5	Lowest channel	20800	2505.0
Middle channel	21100	2535.0	Middle channel	21100	2535.0
Highest channel	21425	2567.5	Highest channel	21400	2565.0
15 MHz			20 MHz		
Lowest channel	20825	2507.5	Lowest channel	20850	2510.0
Middle channel	21100	2535.0	Middle channel	21100	2535.0
Highest channel	21375	2562.5	Highest channel	21350	2560.0
LTE band 12 Include LTE band 17					
Channels		Frequency (MHz)	Channels		Frequency (MHz)
1.4 MHz			3 MHz		
Lowest channel	23017	699.70	Lowest channel	23025	700.50
Middle channel	23095	707.50	Middle channel	23095	707.50
Highest channel	23173	715.30	Highest channel	23165	714.50
5 MHz			10 MHz		
Lowest channel	23035	701.50	Lowest channel	23060	704.00
Middle channel	23095	707.50	Middle channel	23095	707.50
Highest channel	23155	713.50	Highest channel	23130	711.00
LTE band 13					
5 MHz			10 MHz		
Lowest channel	23205	779.5	Lowest channel	/	/
Middle channel	23230	782.0	Middle channel	23230	782.00
Highest channel	23255	784.5	Highest channel	/	/
LTE band 25 Include LTE band 2					
Channels		Frequency (MHz)	Channels		Frequency (MHz)
1.4 MHz			3 MHz		
Lowest channel	26047	1850.70	Lowest channel	26055	1851.50
Middle channel	26365	1882.50	Middle channel	26365	1882.50
Highest channel	26683	1914.30	Highest channel	26675	1913.50
5 MHz			10 MHz		
Lowest channel	26065	1852.50	Lowest channel	26090	1855.00
Middle channel	26365	1882.50	Middle channel	26365	1882.50
Highest channel	26665	1912.50	Highest channel	26640	1910.00
15 MHz			20 MHz		
Lowest channel	26115	1857.50	Lowest channel	26140	1860.00
Middle channel	26365	1882.50	Middle channel	26365	1882.50
Highest channel	26615	1907.50	Highest channel	26590	1905.00

LTE band 26 For Part 22 Include LTE band 5					
Channels		Frequency (MHz)	Channels		Frequency (MHz)
1.4 MHz			3 MHz		
Lowest channel	26797	824.7	Lowest channel	26805	825.5
Middle channel	26915	836.5	Middle channel	26915	836.5
Highest channel	27033	848.3	Highest channel	27025	847.5
5 MHz			10 MHz		
Lowest channel	26815	826.5	Lowest channel	26840	829.0
Middle channel	26915	836.5	Middle channel	26915	836.5
Highest channel	27015	846.5	Highest channel	26990	844.0
15 MHz					
Lowest channel	26865	831.5			
Middle channel	26915	836.5			
Highest channel	26965	841.5			
LTE band 26 For Part 90					
Channels		Frequency (MHz)	Channels		Frequency (MHz)
1.4 MHz			3 MHz		
Lowest channel	26697	814.7	Lowest channel	26705	815.5
Middle channel	26740	819.0	Middle channel	26740	819.0
Highest channel	26783	823.3	Highest channel	26775	822.5
5 MHz			10 MHz		
Lowest channel	26715	816.5	Lowest channel	/	/
Middle channel	26740	819.0	Middle channel	26740	819.0
Highest channel	26765	821.5	Highest channel	/	/
LTE band 41 Include LTE band 38					
Channels		Frequency (MHz)	Channels		Frequency (MHz)
5 MHz			10 MHz		
Lowest channel	39675	2498.5	Lowest channel	39700	2501.0
Middle channel	40620	2593.0	Middle channel	40620	2593.0
Highest channel	41565	2687.5	Highest channel	41540	2685.0
15 MHz			20 MHz		
Lowest channel	39725	2503.5	Lowest channel	39750	2506.0
Middle channel	40620	2593.0	Middle channel	40620	2593.0
Highest channel	41515	2682.5	Highest channel	41490	2680.0

LTE band 66 Include LTE band 4					
Channels		Frequency (MHz)		Frequency (MHz)	
1.4 MHz			3 MHz		
Lowest channel	131979	1710.7	Lowest channel	131987	1711.5
Middle channel	132322	1745.0	Middle channel	132322	1745.0
Highest channel	132665	1779.3	Highest channel	132657	1778.5
5 MHz			10 MHz		
Lowest channel	131997	1712.5	Lowest channel	132022	1715.0
Middle channel	132322	1745.5	Middle channel	132322	1745.0
Highest channel	132647	1777.5	Highest channel	132622	1775.0
15 MHz			20 MHz		
Lowest channel	132047	1717.5	Lowest channel	132072	1720.0
Middle channel	132322	1745.0	Middle channel	132322	1745.0
Highest channel	132597	1772.5	Highest channel	132572	1770.0

Table 4.3.1.1.2A-2: Test frequencies for CA_2C

Range	CC-Combo / N _{RB,agg} [RB]	CC1 Note1					CC2 Note1				
		BW [RB]	N _{UL}	f _{UL} [MHz]	N _{DL}	f _{DL} [MHz]	BW [RB]	N _{UL}	f _{UL} [MHz]	N _{DL}	f _{DL} [MHz]
Low	25+100	25	18633	1853.3	633	1933.3	100	18750	1865	750	1945
		100	18700	1860	700	1940	25	18817	1871.7	817	1951.7
	50+75	50	18653	1855.3	653	1935.3	75	18773	1867.3	773	1947.3
		75	18675	1857.5	675	1937.5	50	18795	1869.5	795	1949.5
	50+100	50	18655	1855.5	655	1935.5	100	18799	1869.9	799	1949.9
		100	18700	1860	700	1940	50	18844	1874.4	844	1954.4
	75+75	75	18675	1857.5	675	1937.5	75	18825	1872.5	825	1952.5
	75+100	75	18678	1857.8	678	1937.8	100	18849	1874.9	849	1954.9
		100	18700	1860	700	1940	75	18871	1877.1	871	1957.1
	100+100	100	18700	1860	700	1940	100	18898	1879.8	898	1959.8
Mid	25+100	25	18808	1870.8	808	1950.8	100	18925	1882.5	925	1962.5
		100	18875	1877.5	875	1957.5	25	18992	1889.2	992	1969.2
	50+75	50	18829	1872.9	829	1952.9	75	18949	1884.9	949	1964.9
		75	18851	1875.1	851	1955.1	50	18971	1887.1	971	1967.1
	50+100	50	18806	1870.6	806	1950.6	100	18950	1885	950	1965
		100	18851	1875.1	851	1955.1	50	18995	1889.5	995	1969.5
	75+75	75	18825	1872.5	825	1952.5	75	18975	1887.5	975	1967.5
	75+100	75	18803	1870.3	803	1950.3	100	18974	1887.4	974	1967.4
		100	18826	1872.6	826	1952.6	75	18997	1889.7	997	1969.7
	100+100	100	18801	1870.1	801	1950.1	100	18999	1889.9	999	1969.9
High	25+100	25	18983	1888.3	983	1968.3	100	19100	1900	1100	1980
		100	19050	1895	1050	1975	25	19167	1906.7	1167	1986.7
	50+75	50	19005	1890.5	1005	1970.5	75	19125	1902.5	1125	1982.5
		75	19027	1892.7	1027	1972.7	50	19147	1904.7	1147	1984.7
	50+100	50	18956	1885.6	956	1965.6	100	19100	1900	1100	1980
		100	19001	1890.1	1001	1970.1	50	19145	1904.5	1145	1984.5
	75+75	75	18975	1887.5	975	1967.5	75	19125	1902.5	1125	1982.5
	75+100	75	18929	1882.9	929	1962.9	100	19100	1900	1100	1980
		100	18951	1885.1	951	1965.1	75	19122	1902.2	1122	1982.2
	100+100	100	18902	1880.2	902	1960.2	100	19100	1900	1100	1980

Note 1: Carriers in increasing frequency order.

Table 4.3.1.1.5A-1: Test frequencies for CA_5B

Range	CC-Combo / N _{RB,agg} [RB]	CC1 Note1					CC2 Note1				
		BW [RB]	N _{UL}	f _{UL} [MHz]	N _{DL}	f _{DL} [MHz]	BW [RB]	N _{UL}	f _{UL} [MHz]	N _{DL}	f _{DL} [MHz]
Low	15+25	15	20416	825.6	2416	870.6	25	20455	829.5	2455	874.5
		25	20425	826.5	2425	871.5	15	20464	830.4	2464	875.4
	25+50	25	20428	826.8	2428	871.8	50	20500	834	2500	879
	50+25	50	20450	829	2450	874	25	20522	836.2	2522	881.2
Mid	15+25	15	20501	834.1	2501	879.1	25	20540	838.0	2540	883.0
		25	20510	835.0	2510	880.0	15	20549	838.9	2549	883.9
	25+50	25	20478	831.8	2478	876.8	50	20550	839	2550	884
	50+25	50	20500	834	2500	879	25	20572	841.2	2572	886.2
	50+50	50	20476	831.6	2476	876.6	50	20575	841.5	2575	886.5
High	15+25	15	20586	842.6	2586	887.6	25	20625	846.5	2625	891.5
		25	20595	843.5	2595	888.5	15	20634	847.4	2634	892.4
	25+50	25	20528	836.8	2528	881.8	50	20600	844	2600	889
	50+25	50	20550	839	2550	884	25	20622	846.2	2622	891.2
	50+50	50	20501	834.1	2501	879.1	50	20600	844	2600	889

Note 1: Carriers in increasing frequency order.

Table 4.3.1.1.7A-1: Test frequencies for CA_7C

Range	CC-Combo / N _{RB,agg} [RB]	CC1 Note1					CC2 Note1				
		BW [RB]	N _{UL}	f _{UL} [MHz]	N _{DL}	f _{DL} [MHz]	BW [RB]	N _{UL}	f _{UL} [MHz]	N _{DL}	f _{DL} [MHz]
Low	50+100	50	20805	2505.5	2805	2625.5	100	20949	2519.9	2949	2639.9
		100	20850	2510	2850	2630	50	20994	2524.4	2994	2644.4
	75+50	75	20825	2507.5	2825	2627.5	50	20945	2519.5	2945	2639.5
	75+75	75	20825	2507.5	2825	2627.5	75	20975	2522.5	2975	2642.5
	75+100	75	20828	2507.8	2828	2627.8	100	20999	2524.9	2999	2644.9
		100	20850	2510	2850	2630	75	21021	2527.1	3021	2647.1
100+100	100	20850	2510	2850	2630	100	21048	2529.8	3048	2649.8	
Mid	50+100	50	21006	2525.6	3006	2645.6	100	21150	2540	3150	2660
		100	21051	2530.1	3051	2650.1	50	21195	2544.5	3195	2664.5
	75+50	75	21051	2530.1	3051	2650.1	50	21171	2542.1	3171	2662.1
	75+75	75	21025	2527.5	3025	2647.5	75	21175	2542.5	3175	2662.5
	75+100	75	21003	2525.3	3003	2645.3	100	21174	2542.4	3174	2662.4
		100	21026	2527.6	3026	2647.6	75	21197	2544.7	3197	2664.7
100+100	100	21001	2525.1	3001	2645.1	100	21199	2544.9	3199	2664.9	
High	50+100	50	21206	2545.6	3206	2665.6	100	21350	2560	3350	2680
		100	21251	2550.1	3251	2670.1	50	21395	2564.5	3395	2684.5
	75+50	75	21277	2552.7	3277	2672.7	50	21397	2564.7	3397	2684.7
	75+75	75	21225	2547.5	3225	2667.5	75	21375	2562.5	3375	2682.5
	75+100	75	21179	2542.9	3179	2662.9	100	21350	2560	3350	2680
		100	21201	2545.1	3201	2665.1	75	21372	2562.2	3372	2682.2
100+100	100	21152	2540.2	3152	2660.2	100	21350	2560	3350	2680	

Note 1: Carriers in increasing frequency order.

Table 4.3.1.2.9A-1: Test frequencies for CA_41C

Range	CC-Combo / N _{RB_agg} [RB]	CC1 Note1			CC2 Note1		
		BW [RB]	N _{UL/DL}	f _{UL/DL} [MHz]	BW [RB]	N _{UL/DL}	f _{UL/DL} [MHz]
Low	25+100	25	39683	2499.3	100	39800	2511
		100	39750	2506	25	39867	2517.7
	50+75	50	39703	2501.3	75	39823	2513.3
		75	39725	2503.5	50	39845	2515.5
	50+100	50	39705	2501.5	100	39849	2515.9
		100	39750	2506	50	39894	2520.4
	75+75	75	39725	2503.5	75	39875	2518.5
	75+100	75	39728	2503.8	100	39899	2520.9
100		39750	2506	75	39921	2523.1	
100+100	100	39750	2506	100	39948	2525.8	
Mid	25+100	25	40528	2583.8	100	40645	2595.5
		100	40595	2590.5	25	40712	2602.2
	50+75	50	40549	2585.9	75	40669	2597.9
		75	40571	2588.1	50	40691	2600.1
	50+100	50	40526	2583.6	100	40670	2598.0
		100	40571	2588.1	50	40715	2602.5
	75+75	75	40545	2585.5	75	40695	2600.5
	75+100	75	40523	2583.3	100	40694	2600.4
100		40546	2585.6	75	40717	2602.7	
100+100	100	40521	2583.1	100	40719	2602.9	
100+100 ²	100	40529	2583.9	100	40712	2602.2	
High	25+100	25	41373	2668.3	100	41490	2680
		100	41440	2675	25	41557	2686.7
	50+75	50	41395	2670.5	75	41515	2682.5
		75	41417	2672.7	50	41537	2684.7
	50+100	50	41346	2665.6	100	41490	2680
		100	41391	2670.1	50	41535	2684.5
	75+75	75	41365	2667.5	75	41515	2682.5
	75+100	75	41319	2662.9	100	41490	2680
100		41341	2665.1	75	41512	2682.2	
100+100	100	41292	2660.2	100	41490	2680	
Note 1:	Carriers in increasing frequency order.						
Note 2:	This test frequency is applicable only for intra-band contiguous CA which requires channel spacing to be less than nominal channel spacing.						

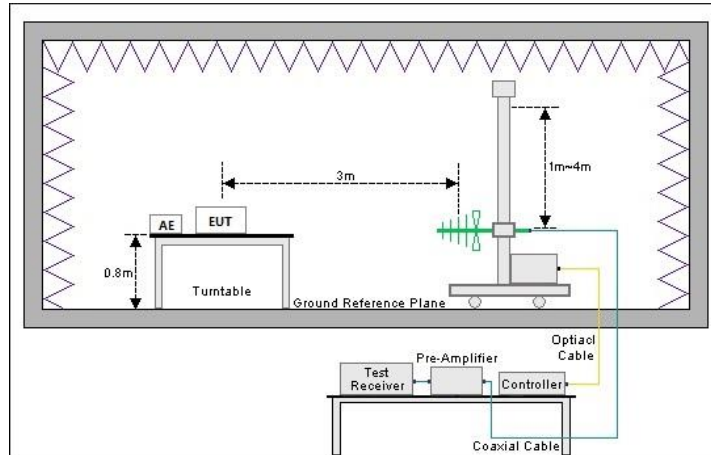
Table 4.3.1.1.66A-2: Test frequencies for CA_66C

Range	CC-Combo / N _{RB_agg} [RB]	CC1 Note1					CC2 Note1				
		BW [RB]	N _{UL}	f _{UL} [MHz]	N _{DL}	f _{DL} [MHz]	BW [RB]	N _{UL}	f _{UL} [MHz]	N _{DL}	f _{DL} [MHz]
Low	50+75	50	132025	1715.3	66489	2115.3	75	132145	1727.3	66609	2127.3
		75	132047	1717.5	66511	2117.5	50	132167	1729.5	66631	2129.5
	50+100	50	132027	1715.5	66491	2115.5	100	132171	1729.9	66635	2129.9
		100	132072	1720	66536	2120	50	132216	1734.4	66680	2134.4
	75+75	75	132047	1717.5	66511	2117.5	75	132197	1732.5	66661	2132.5
		75	132050	1717.8	66514	2117.8	100	132221	1734.9	66685	2134.9
	75+100	100	132072	1720	66536	2120	75	132243	1737.1	66707	2137.1
		100	132072	1720	66536	2120	25	132189	1731.7	66653	2131.7
	100+25	25	132005	1713.3	66469	2113.3	100	132122	1725.0	66586	2125.0
		100	132072	1720	66536	2120	100	132270	1739.8	66734	2139.8
Mid	50+75	50	132351	1747.9	66815	2147.9	75	132471	1759.9	66935	2159.9
		75	132373	1750.1	66837	2150.1	50	132493	1762.1	66957	2162.1
	50+100	50	132328	1745.6	66792	2145.6	100	132472	1760	66936	2160
		100	132373	1750.1	66837	2150.1	50	132517	1764.5	66981	2164.5
	75+75	75	132347	1747.5	66811	2147.5	75	132497	1762.5	66961	2162.5
		75	132325	1745.3	66789	2145.3	100	132496	1762.4	66960	2162.4
	75+100	100	132348	1747.6	66812	2147.6	75	132519	1764.7	66983	2164.7
		100	132397	1752.5	66861	2152.5	25	132514	1764.2	66978	2164.2
	100+25	25	132330	1745.8	66794	2145.8	100	132447	1757.5	66911	2157.5
		100	132323	1745.1	66787	2145.1	100	132521	1764.9	66985	2164.9
High ³	50+75	50	132477	1760.5	66941	2160.5	75	132597	1772.5	67061	2172.5
		75	132499	1762.7	66963	2162.7	50	132619	1774.7	67083	2174.7
	50+100	50	132428	1755.6	66892	2155.6	100	132572	1770	67036	2170
		100	132473	1760.1	66937	2160.1	50	132617	1774.5	67081	2174.5
	75+75	75	132447	1757.5	66911	2157.5	75	132597	1772.5	67061	2172.5
		75	132401	1752.9	66885	2152.9	100	132572	1770	67036	2170
	75+100	100	132423	1755.1	66887	2155.1	75	132594	1772.2	67058	2172.2
		100	132522	1765	66986	2165	25	132639	1776.7	67103	2176.7
	100+25	25	132455	1758.3	66919	2158.3	100	132572	1770.0	67036	2170.0
		100	132374	1750.2	66838	2150.2	100	132572	1770	67036	2170
Note 1:		Carriers in increasing frequency order.									
Note 2:		Applicable for intra-band contiguous CA without UL CA.									
Note 3:		Applicable for intra-band contiguous CA with UL CA.									

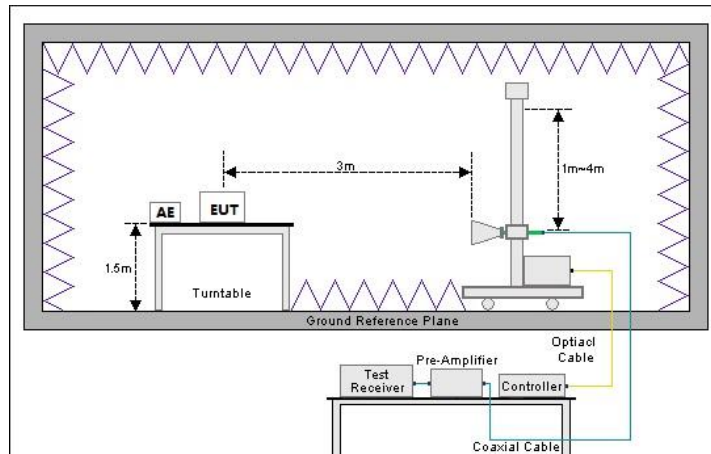
4.2 Test Setup

1) Radiated emission measurement:

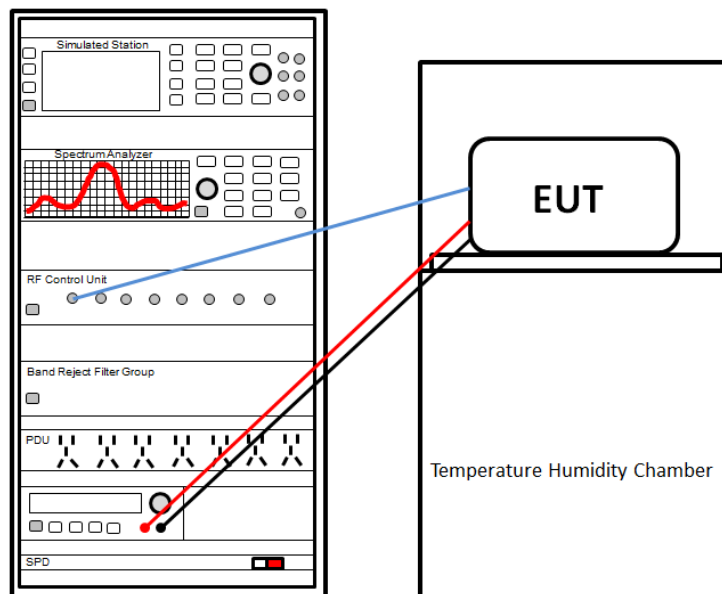
Below 1GHz (3m SAC)



Above 1GHz (3m FAR)



2) Conducted test method



4.3 Test Procedure

Test method	Test step
Radiated emission	<p>For below 1GHz:</p> <ol style="list-style-type: none"> The EUT was placed on the tabletop of a rotating table 0.8 m the ground at a 3 m semi anechoic chamber. The measurement distance from the EUT to the receiving antenna is 3 m. EUT works in each mode of operation that needs to be tested , and having the EUT continuously working, respectively on 3 axis (X, Y & Z) and considered typical configuration to obtain worst position. The highest signal levels relative to the limit shall be determined by rotating the EUT from 0° to 360° and with varying the measurement antenna height between 1 m and 4 m in vertical and horizontal polarizations. Open the test software to control the test antenna and test turntable. Perform the test, save the test results, and export the test data. <p>For above 1GHz:</p> <ol style="list-style-type: none"> The EUT was placed on the tabletop of a rotating table 1.5 m the ground at a 3 m fully anechoic room. The measurement distance from the EUT to the receiving antenna is 3 m. EUT works in each mode of operation that needs to be tested , and having the EUT continuously working, respectively on 3 axis (X, Y & Z) and considered typical configuration to obtain worst position. The highest signal levels relative to the limit shall be determined by rotating the EUT from 0° to 360° and with varying the measurement antenna height between 1 m and 4 m in vertical and horizontal polarizations. Open the test software to control the test antenna and test turntable. Perform the test, save the test results, and export the test data.
Conducted test method	<ol style="list-style-type: none"> The LTE antenna port of EUT was connected to the test port of the test system through an RF cable. The EUT is keeping in continuous transmission mode and tested in all modulation modes. Open the test software, prepare a test plan, and control the system through the software. After the test is completed, the test report is exported through the test software.

5 Test Results

5.1 Summary

5.1.1 Clause and Data Summary

Test items	Standard clause	Test data	Result
RF Exposure (SAR)	Part 1.1307 Part 2.1093	See SAR Report	Pass
RF Output Power	Part 2.1046 Part 22.913 (a)(5) Part 24.232 (c) Part 27.50 (c)(10) Part 27.50 (d)(4) Part 27.50 (h)(2) Part 90.635 (b)	Appendix – LTE ANT0 Appendix – LTE ANT2 Appendix LTE – CA ANT0 Appendix LTE – CA ANT2	Pass
Peak-to-Average Power Ratio	Part 24.232 (d) Part 27.50 (d)(5)	Appendix – LTE ANT0 Appendix – LTE ANT2 Appendix LTE – CA ANT0 Appendix LTE – CA ANT2	Pass
Modulation Characteristics	Part 2.1047	Appendix – LTE ANT0 Appendix – LTE ANT2 Appendix LTE – CA ANT0 Appendix LTE – CA ANT2	Pass
26dB Emission Bandwidth 99% Occupied Bandwidth	Part 2.1049	Appendix – LTE ANT0 Appendix – LTE ANT2 Appendix LTE – CA ANT0 Appendix LTE – CA ANT2	Pass
Out of Band Emission at Antenna Terminals	Part 2.1051 Part 22.917 (a) Part 24.238 (a) Part 27.53 (g) Part 27.53 (c) Part 27.53 (h) Part 27.53 (m)(4) Part 90.691 (a)	Appendix – LTE ANT0 Appendix – LTE ANT2 Appendix LTE – CA ANT0 Appendix LTE – CA ANT2	Pass
Field Strength of Spurious Radiation	Part 2.1053 Part 22.917 (a) Part 24.238 (a) Part 27.53 (c) Part 27.53 (g) Part 27.53 (h) Part 27.53 (m)(4) Part 90.691 (a)	See Section 5.2	Pass
Frequency Stability vs. Temperature	Part 2.1055 (a)(1)(b) Part 22.355 Part 24.235 Part 27.54 Part 90.213 (a)	Appendix – LTE ANT0 Appendix – LTE ANT2 Appendix LTE – CA ANT0 Appendix LTE – CA ANT2	Pass
Frequency Stability vs. Voltage	Part 2.1055 (d)(2) Part 22.355 Part 24.235 Part 27.54 Part 90.213 (a)	Appendix – LTE ANT0 Appendix – LTE ANT2 Appendix LTE – CA ANT0 Appendix LTE – CA ANT2	Pass

Remark:

1. Pass: The EUT complies with the essential requirements in the standard.
2. The cable insertion loss used by "RF Output Power" and other conduction measurement items is 0.5dB (Fundamental Frequency below 1GHz)/1.0dB (Fundamental Frequency above 1GHz) (provided by the customer).

Test Method:

ANSI/TIA-603-E-2016
ANSI C63.26-2015

5.1.2 Test Limit

Test items	Limit
RF Output Power	<p>LTE band 2/CA_2C/7/CA_7C/38/CA_38C/41/CA_41C: 2W EIRP</p> <p>LTE band 4/66/CA_66C: 1W EIRP</p> <p>LTE band 5/CA_5B/26(Part 22): 7W ERP</p> <p>LTE band 12/13/17: 3W ERP</p> <p>LTE band 26(Part 90): 100W EIRP</p>
Peak-to-Average Power Ratio	<p>LTE band 2/4/25/26:The peak-to-average ratio (PAR) of the transmission may not exceed 13 dB</p> <p>Other bands: N/A report only</p>
Modulation Characteristics	N/A
26dB Emission Bandwidth 99% Occupied Bandwidth	N/A
Out of Band Emission at Antenna Terminals Field Strength of Spurious Radiation	<p>LTE band 2/CA_2C, 4, 5/CA_5B, 12, 13, 17, 26(Part 22), 66/CA_66C:</p> <p>The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB.</p> <p>LTE band 7/CA_7C, 38/CA_38C, 41/CA_41C:</p> <p>For mobile digital stations, the attenuation factor shall be not less than $40 + 10 \log(P)$ dB on all frequencies between the channel edge and 5 megahertz from the channel edge, $43 + 10 \log(P)$ dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and $55 + 10 \log(P)$ dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less than $43 + 10 \log(P)$ dB on all frequencies between 2490.5 MHz and 2496 MHz and $55 + 10 \log(P)$ dB at or below 2490.5 MHz.</p> <p>LTE band 26(Part 90):</p> <p>(1) For any frequency removed from the EA licensee's frequency block by up to and including 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least $116 \log_{10}(f/6.1)$ decibels or $50 + 10 \log_{10}(P)$ decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 12.5 kHz.</p> <p>(2) For any frequency removed from the EA licensee's frequency block greater than 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log_{10}(P)$ decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 37.5 kHz.</p>

LTE band 2/CA_2C:

The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

LTE band 4, 7/CA_7C, 12, 13, 17, 38/CA_38C, 41/CA_41C, 66/CA_66C:

The frequency stability shall be sufficient to ensure that the fundamental emissions stay within the authorized bands of operation.

LTE band 5/CA_5B, 26(Part 22):

Except as otherwise provided in this part, the carrier frequency of each transmitter in the Public Mobile Services must be maintained within the tolerances given in Table C-1 of this section.

TABLE C-1—FREQUENCY TOLERANCE FOR TRANSMITTERS IN THE PUBLIC MOBILE SERVICES

Frequency range (MHz)	Base, fixed (ppm)	Mobile >3 watts (ppm)	Mobile ≤3 watts (ppm)
25 to 50	20.0	20.0	50.0
50 to 450	5.0	5.0	50.0
450 to 512	2.5	5.0	5.0
821 to 896	1.5	2.5	2.5
928 to 929	5.0	n/a	n/a
929 to 960	1.5	n/a	n/a
2110 to 2220	10.0	n/a	n/a

Frequency Stability vs. Temperature

Frequency Stability vs. Voltage

LTE band 26(Part 90):

Part 90.213(a): Unless noted elsewhere, transmitters used in the services governed by this part must have a minimum frequency stability as specified in the following table.

Frequency range (MHz)	Fixed and base stations	Mobile stations	
		Over 2 watts output power	2 watts or less output power
Below 25	^{1 2 3} 100	100	200
25-50	20	20	50
72-76	5		50
150-174	^{5 11} 5	^{6 5}	^{4 6} 50
216-220	1.0		1.0
220-222 ¹²	0.1	1.5	1.5
421-512	^{7 11 14} 2.5	^{8 5}	^{8 5}
806-809	¹⁴ 1.0	1.5	1.5
809-824	¹⁴ 1.5	2.5	2.5
851-854	1.0	1.5	1.5
854-869	1.5	2.5	2.5
896-901	¹⁴ 0.1	1.5	1.5
902-928	2.5	2.5	2.5
902-928 ¹³	2.5	2.5	2.5
929-930	1.5		
935-940	0.1	1.5	1.5
1427-1435	⁹ 300	300	300
Above 2450 ¹⁰			

5.2 Field Strength of Spurious Radiation Measurement

Note: All bandwidths, modulation types and RB configurations were pretested, and it was found that minimum bandwidths, QPSK modulation and 1RB0 were the worst modes, and only the worst modes were reflected in the report.

ANT0:

LTE band 7 – 5 MHz bandwidth						
Lowest channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
5005.00	-60.75	3.69	-57.06	-25.00	32.06	Vertical
7507.50	-66.17	5.56	-60.61	-25.00	35.61	Vertical
10010.00	-67.56	10.09	-57.47	-25.00	32.47	Vertical
5005.00	-59.16	4.02	-55.14	-25.00	30.14	Horizontal
7507.50	-65.44	5.56	-59.88	-25.00	34.88	Horizontal
10010.00	-67.80	9.47	-58.33	-25.00	33.33	Horizontal
Middle channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
5070.00	-60.04	4.23	-55.81	-25.00	30.81	Vertical
7605.00	-65.21	6.06	-59.15	-25.00	34.15	Vertical
10140.00	-66.96	10.48	-56.48	-25.00	31.48	Vertical
5070.00	-59.68	3.51	-56.17	-25.00	31.17	Horizontal
7605.00	-65.34	5.95	-59.39	-25.00	34.39	Horizontal
10140.00	-67.55	10.21	-57.34	-25.00	32.34	Horizontal
Highest channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
5135.00	-60.57	3.78	-56.79	-25.00	31.79	Vertical
7702.50	-66.24	6.22	-60.02	-25.00	35.02	Vertical
10270.00	-67.02	11.48	-55.54	-25.00	30.54	Vertical
5135.00	-58.95	3.83	-55.12	-25.00	30.12	Horizontal
7702.50	-65.43	5.97	-59.46	-25.00	34.46	Horizontal
10270.00	-67.76	11.00	-56.76	-25.00	31.76	Horizontal
Remark:						
1. The emission levels of below 1 GHz are lower than the limit 10dB, so not show in test report.						

LTE band 12 – 1.4 MHz bandwidth						
Lowest channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
1399.40	-55.08	-11.68	-66.76	-13.00	53.76	Vertical
2099.10	-59.73	-9.89	-69.62	-13.00	56.62	Vertical
2798.80	-61.50	-7.09	-68.59	-13.00	55.59	Vertical
1399.40	-51.17	-11.43	-62.60	-13.00	49.60	Horizontal
2099.10	-61.32	-9.44	-70.76	-13.00	57.76	Horizontal
2798.80	-61.85	-6.71	-68.56	-13.00	55.56	Horizontal
Middle channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
1415.00	-54.74	-11.77	-66.51	-13.00	53.51	Vertical
2122.50	-60.59	-9.58	-70.17	-13.00	57.17	Vertical
2830.00	-61.99	-6.50	-68.49	-13.00	55.49	Vertical
1415.00	-50.75	-11.45	-62.20	-13.00	49.20	Horizontal
2122.50	-61.13	-8.86	-69.99	-13.00	56.99	Horizontal
2830.00	-61.87	-5.97	-67.84	-13.00	54.84	Horizontal
Highest channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
1430.60	-54.38	-11.92	-66.30	-13.00	53.30	Vertical
2145.90	-60.86	-9.51	-70.37	-13.00	57.37	Vertical
2861.20	-62.02	-5.55	-67.57	-13.00	54.57	Vertical
1430.60	-51.01	-11.66	-62.67	-13.00	49.67	Horizontal
2145.90	-61.34	-9.15	-70.49	-13.00	57.49	Horizontal
2861.20	-62.90	-5.44	-68.34	-13.00	55.34	Horizontal
Remark:						
1. The emission levels of below 1 GHz are lower than the limit 10dB, so not show in test report.						

LTE band 13 – 5 MHz bandwidth						
Lowest channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
1559.00	-59.89	-11.55	-71.44	-13.00	58.44	Vertical
2338.50	-61.43	-9.40	-70.83	-13.00	57.83	Vertical
3118.00	-61.40	-2.81	-64.21	-13.00	51.21	Vertical
1559.00	-60.05	-12.18	-72.23	-13.00	59.23	Horizontal
2338.50	-60.67	-9.26	-69.93	-13.00	56.93	Horizontal
3118.00	-62.19	-3.05	-65.24	-13.00	52.24	Horizontal
Middle channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
1564.00	-59.52	-11.57	-71.09	-13.00	58.09	Vertical
2346.00	-60.73	-9.38	-70.11	-13.00	57.11	Vertical
3128.00	-62.29	-2.66	-64.95	-13.00	51.95	Vertical
1564.00	-60.68	-12.12	-72.80	-13.00	59.80	Horizontal
2346.00	-60.97	-9.27	-70.24	-13.00	57.24	Horizontal
3128.00	-62.48	-3.01	-65.49	-13.00	52.49	Horizontal
Highest channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
1569.00	-60.01	-11.63	-71.64	-13.00	58.64	Vertical
2353.50	-61.24	-9.35	-70.59	-13.00	57.59	Vertical
3138.00	-61.54	-2.48	-64.02	-13.00	51.02	Vertical
1569.00	-59.76	-12.06	-71.82	-13.00	58.82	Horizontal
2353.50	-60.89	-9.28	-70.17	-13.00	57.17	Horizontal
3138.00	-62.17	-2.96	-65.13	-13.00	52.13	Horizontal
Remark:						
1. The emission levels of below 1 GHz are lower than the limit 10dB, so not show in test report.						

LTE band 25 – 1.4 MHz bandwidth						
Lowest channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
3701.40	-63.14	-0.36	-63.50	-13.00	50.50	Vertical
5552.10	-59.30	4.16	-55.14	-13.00	42.14	Vertical
7402.80	-66.84	6.10	-60.74	-13.00	47.74	Vertical
3701.40	-60.92	-0.17	-61.09	-13.00	48.09	Horizontal
5552.10	-64.92	4.07	-60.85	-13.00	47.85	Horizontal
7402.80	-66.56	5.76	-60.80	-13.00	47.80	Horizontal
Middle channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
3765.00	-62.88	-1.01	-63.89	-13.00	50.89	Vertical
5647.50	-59.80	3.85	-55.95	-13.00	42.95	Vertical
7530.00	-66.00	5.56	-60.44	-13.00	47.44	Vertical
3765.00	-61.52	-0.54	-62.06	-13.00	49.06	Horizontal
5647.50	-63.91	4.08	-59.83	-13.00	46.83	Horizontal
7530.00	-66.77	5.56	-61.21	-13.00	48.21	Horizontal
Highest channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
3828.60	-62.21	-0.36	-62.57	-13.00	49.57	Vertical
5742.90	-59.09	3.50	-55.59	-13.00	42.59	Vertical
7657.20	-66.55	6.54	-60.01	-13.00	47.01	Vertical
3828.60	-61.21	0.06	-61.15	-13.00	48.15	Horizontal
5742.90	-64.02	3.85	-60.17	-13.00	47.17	Horizontal
7657.20	-65.81	6.33	-59.48	-13.00	46.48	Horizontal
Remark:						
1. The emission levels of below 1 GHz are lower than the limit 10dB, so not show in test report.						

LTE band 26(Part 22) – 1.4 MHz bandwidth						
Lowest channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
1649.40	-62.62	-11.51	-74.13	-13.00	61.13	Vertical
2474.10	-61.58	-8.67	-70.25	-13.00	57.25	Vertical
3298.80	-64.31	-3.89	-68.20	-13.00	55.20	Vertical
1649.40	-62.77	-10.85	-73.62	-13.00	60.62	Horizontal
2474.10	-62.38	-9.13	-71.51	-13.00	58.51	Horizontal
3298.80	-63.36	-3.96	-67.32	-13.00	54.32	Horizontal
Middle channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
1673.00	-62.45	-10.70	-73.15	-13.00	60.15	Vertical
2509.50	-62.32	-8.66	-70.98	-13.00	57.98	Vertical
3346.00	-64.50	-3.33	-67.83	-13.00	54.83	Vertical
1673.00	-62.55	-10.28	-72.83	-13.00	59.83	Horizontal
2509.50	-62.49	-8.73	-71.22	-13.00	58.22	Horizontal
3346.00	-63.46	-3.42	-66.88	-13.00	53.88	Horizontal
Highest channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
1696.60	-62.83	-9.90	-72.73	-13.00	59.73	Vertical
2544.90	-62.17	-8.45	-70.62	-13.00	57.62	Vertical
3393.20	-63.64	-2.59	-66.23	-13.00	53.23	Vertical
1696.60	-62.15	-9.70	-71.85	-13.00	58.85	Horizontal
2544.90	-61.72	-8.21	-69.93	-13.00	56.93	Horizontal
3393.20	-63.02	-2.65	-65.67	-13.00	52.67	Horizontal
Remark:						
1. The emission levels of below 1 GHz are lower than the limit 10dB, so not show in test report.						

LTE band 26(Part 90) – 1.4 MHz bandwidth						
Lowest channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
1629.40	-62.06	-12.21	-74.27	-13.00	61.27	Vertical
2444.10	-60.90	-8.84	-69.74	-13.00	56.74	Vertical
3258.80	-62.30	-3.57	-65.87	-13.00	52.87	Vertical
1629.40	-62.16	-11.35	-73.51	-13.00	60.51	Horizontal
2444.10	-61.03	-9.23	-70.26	-13.00	57.26	Horizontal
3258.80	-63.09	-3.42	-66.51	-13.00	53.51	Horizontal
Middle channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
1638.00	-62.04	-11.90	-73.94	-13.00	60.94	Vertical
2457.00	-61.43	-8.75	-70.18	-13.00	57.18	Vertical
3276.00	-63.01	-3.71	-66.72	-13.00	53.72	Vertical
1638.00	-61.53	-11.13	-72.66	-13.00	59.66	Horizontal
2457.00	-61.12	-9.20	-70.32	-13.00	57.32	Horizontal
3276.00	-63.46	-3.65	-67.11	-13.00	54.11	Horizontal
Highest channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
1646.60	-61.34	-11.60	-72.94	-13.00	59.94	Vertical
2469.90	-61.20	-8.67	-69.87	-13.00	56.87	Vertical
3293.20	-62.85	-3.85	-66.70	-13.00	53.70	Vertical
1646.60	-61.22	-10.92	-72.14	-13.00	59.14	Horizontal
2469.90	-61.30	-9.18	-70.48	-13.00	57.48	Horizontal
3293.20	-62.66	-3.88	-66.54	-13.00	53.54	Horizontal
Remark:						
1. The emission levels of below 1 GHz are lower than the limit 10dB, so not show in test report.						

LTE band 41 – 5 MHz bandwidth						
Lowest channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
4997.00	-59.32	3.56	-55.76	-25.00	30.76	Vertical
7495.50	-65.70	5.68	-60.02	-25.00	35.02	Vertical
9994.00	-66.85	9.96	-56.89	-25.00	31.89	Vertical
4997.00	-58.83	4.08	-54.75	-25.00	29.75	Horizontal
7495.50	-66.24	5.52	-60.72	-25.00	35.72	Horizontal
9994.00	-67.10	9.64	-57.46	-25.00	32.46	Horizontal
Middle channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
5186.00	-59.03	3.35	-55.68	-25.00	30.68	Vertical
7779.00	-66.60	8.21	-58.39	-25.00	33.39	Vertical
10372.00	-66.78	10.91	-55.87	-25.00	30.87	Vertical
5186.00	-59.10	3.29	-55.81	-25.00	30.81	Horizontal
7779.00	-65.16	8.05	-57.11	-25.00	32.11	Horizontal
10372.00	-67.18	10.39	-56.79	-25.00	31.79	Horizontal
Highest channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
5375.00	-59.56	4.30	-55.26	-25.00	30.26	Vertical
8062.50	-66.15	8.18	-57.97	-25.00	32.97	Vertical
10750.00	-67.39	11.78	-55.61	-25.00	30.61	Vertical
5375.00	-58.98	4.29	-54.69	-25.00	29.69	Horizontal
8062.50	-66.29	8.89	-57.40	-25.00	32.40	Horizontal
10750.00	-66.52	11.20	-55.32	-25.00	30.32	Horizontal
Remark:						
1. The emission levels of below 1 GHz are lower than the limit 10dB, so not show in test report.						

LTE band 66 – 1.4 MHz bandwidth						
Lowest channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
3421.40	-58.84	-2.15	-60.99	-13.00	47.99	Vertical
5132.10	-53.55	3.80	-49.75	-13.00	36.75	Vertical
6842.80	-66.48	5.86	-60.62	-13.00	47.62	Vertical
3421.40	-63.64	-2.22	-65.86	-13.00	52.86	Horizontal
5132.10	-56.86	3.86	-53.00	-13.00	40.00	Horizontal
6842.80	-65.54	6.07	-59.47	-13.00	46.47	Horizontal
Middle channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
3490.00	-58.86	-3.02	-61.88	-13.00	48.88	Vertical
5235.00	-52.85	3.17	-49.68	-13.00	36.68	Vertical
6980.00	-65.54	5.49	-60.05	-13.00	47.05	Vertical
3490.00	-63.76	-2.92	-66.68	-13.00	53.68	Horizontal
5235.00	-56.02	3.32	-52.70	-13.00	39.70	Horizontal
6980.00	-65.93	5.46	-60.47	-13.00	47.47	Horizontal
Highest channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
3558.60	-58.34	-2.25	-60.59	-13.00	47.59	Vertical
5337.90	-53.16	4.23	-48.93	-13.00	35.93	Vertical
7117.20	-66.51	5.53	-60.98	-13.00	47.98	Vertical
3558.60	-64.48	-2.22	-66.70	-13.00	53.70	Horizontal
5337.90	-56.54	4.19	-52.35	-13.00	39.35	Horizontal
7117.20	-65.30	5.32	-59.98	-13.00	46.98	Horizontal
Remark:						
1. The emission levels of below 1 GHz are lower than the limit 10dB, so not show in test report.						

CA band 2 – 1.4 MHz bandwidth						
Lowest channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
3701.40	-62.01	-0.36	-62.37	-13.00	49.37	Vertical
5552.10	-60.09	4.16	-55.93	-13.00	42.93	Vertical
7402.00	-65.94	6.10	-59.84	-13.00	46.84	Vertical
3701.40	-60.84	-0.17	-61.01	-13.00	48.01	Horizontal
5552.10	-64.00	4.07	-59.93	-13.00	46.93	Horizontal
7402.00	-66.02	5.78	-60.24	-13.00	47.24	Horizontal
Middle channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
3760.00	-62.38	-1.01	-63.39	-13.00	50.39	Vertical
5640.00	-59.31	3.96	-55.35	-13.00	42.35	Vertical
7520.00	-67.10	5.55	-61.55	-13.00	48.55	Vertical
3760.00	-60.90	-0.56	-61.46	-13.00	48.46	Horizontal
5640.00	-64.55	4.14	-60.41	-13.00	47.41	Horizontal
7520.00	-66.41	5.56	-60.85	-13.00	47.85	Horizontal
Highest channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
3816.60	-62.43	-0.59	-63.02	-13.00	50.02	Vertical
5724.90	-60.01	3.42	-56.59	-13.00	43.59	Vertical
7633.20	-65.94	6.40	-59.54	-13.00	46.54	Vertical
3816.60	-61.29	-0.10	-61.39	-13.00	48.39	Horizontal
5724.90	-64.44	3.80	-60.64	-13.00	47.64	Horizontal
7633.20	-66.69	6.24	-60.45	-13.00	47.45	Horizontal
Remark:						
1. The emission levels of below 1 GHz are lower than the limit 10dB, so not show in test report.						

CA band 5 – 1.4 MHz bandwidth						
Lowest channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
1649.40	-62.92	-11.51	-74.43	-13.00	61.43	Vertical
2474.10	-61.39	-8.67	-70.06	-13.00	57.06	Vertical
3298.80	-63.95	-3.89	-67.84	-13.00	54.84	Vertical
1649.40	-62.00	-10.85	-72.85	-13.00	59.85	Horizontal
2474.10	-61.59	-9.13	-70.72	-13.00	57.72	Horizontal
3298.80	-62.93	-3.96	-66.89	-13.00	53.89	Horizontal
Middle channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
1673.30	-63.07	-10.70	-73.77	-13.00	60.77	Vertical
2509.50	-61.66	-8.66	-70.32	-13.00	57.32	Vertical
3346.00	-63.98	-3.33	-67.31	-13.00	54.31	Vertical
1673.30	-62.04	-10.28	-72.32	-13.00	59.32	Horizontal
2509.50	-62.16	-8.73	-70.89	-13.00	57.89	Horizontal
3346.00	-63.41	-3.42	-66.83	-13.00	53.83	Horizontal
Highest channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
1696.60	-62.25	-9.90	-72.15	-13.00	59.15	Vertical
2544.90	-61.55	-8.45	-70.00	-13.00	57.00	Vertical
3393.20	-63.63	-2.59	-66.22	-13.00	53.22	Vertical
1696.60	-62.54	-9.70	-72.24	-13.00	59.24	Horizontal
2544.90	-62.37	-8.21	-70.58	-13.00	57.58	Horizontal
3393.20	-63.46	-2.65	-66.11	-13.00	53.11	Horizontal
Remark:						
1. The emission levels of below 1 GHz are lower than the limit 10dB, so not show in test report.						

CA band 7 – 5 MHz bandwidth						
Lowest channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
5005.00	-60.79	3.69	-57.10	-25.00	32.10	Vertical
7507.50	-65.32	5.56	-59.76	-25.00	34.76	Vertical
10010.00	-67.27	10.09	-57.18	-25.00	32.18	Vertical
5005.00	-59.28	4.02	-55.26	-25.00	30.26	Horizontal
7507.50	-65.26	5.56	-59.70	-25.00	34.70	Horizontal
10010.00	-67.03	9.47	-57.56	-25.00	32.56	Horizontal
Middle channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
5070.00	-60.20	4.23	-55.97	-25.00	30.97	Vertical
7605.00	-66.13	6.06	-60.07	-25.00	35.07	Vertical
10140.00	-67.83	10.48	-57.35	-25.00	32.35	Vertical
5070.00	-59.90	3.51	-56.39	-25.00	31.39	Horizontal
7605.00	-65.96	5.95	-60.01	-25.00	35.01	Horizontal
10140.00	-67.19	10.21	-56.98	-25.00	31.98	Horizontal
Highest channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
5135.00	-60.91	3.78	-57.13	-25.00	32.13	Vertical
7702.50	-65.56	6.22	-59.34	-25.00	34.34	Vertical
10270.00	-67.26	11.48	-55.78	-25.00	30.78	Vertical
5135.00	-60.13	3.83	-56.30	-25.00	31.30	Horizontal
7702.50	-64.93	5.97	-58.96	-25.00	33.96	Horizontal
10270.00	-67.54	11.00	-56.54	-25.00	31.54	Horizontal
Remark:						
1. The emission levels of below 1 GHz are lower than the limit 10dB, so not show in test report.						

CA band 41 – 5 MHz bandwidth						
Lowest channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
4997.00	-59.32	3.56	-55.76	-25.00	30.76	Vertical
7495.50	-65.70	5.68	-60.02	-25.00	35.02	Vertical
9994.00	-66.85	9.96	-56.89	-25.00	31.89	Vertical
4997.00	-58.83	4.08	-54.75	-25.00	29.75	Horizontal
7495.50	-66.24	5.52	-60.72	-25.00	35.72	Horizontal
9994.00	-67.10	9.64	-57.46	-25.00	32.46	Horizontal
Middle channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
5186.00	-59.03	3.35	-55.68	-25.00	30.68	Vertical
7779.00	-66.60	8.21	-58.39	-25.00	33.39	Vertical
10372.00	-66.78	10.91	-55.87	-25.00	30.87	Vertical
5186.00	-59.10	3.29	-55.81	-25.00	30.81	Horizontal
7779.00	-65.16	8.05	-57.11	-25.00	32.11	Horizontal
10372.00	-67.18	10.39	-56.79	-25.00	31.79	Horizontal
Highest channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
5375.00	-59.56	4.30	-55.26	-25.00	30.26	Vertical
8062.50	-66.15	8.18	-57.97	-25.00	32.97	Vertical
10750.00	-67.39	11.78	-55.61	-25.00	30.61	Vertical
5375.00	-58.98	4.29	-54.69	-25.00	29.69	Horizontal
8062.50	-66.29	8.89	-57.40	-25.00	32.40	Horizontal
10750.00	-66.52	11.20	-55.32	-25.00	30.32	Horizontal
Remark:						
1. The emission levels of below 1 GHz are lower than the limit 10dB, so not show in test report.						

CA band 66 – 1.4 MHz bandwidth						
Lowest channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
3421.40	-58.89	-2.15	-61.04	-13.00	48.04	Vertical
5132.10	-53.16	3.80	-49.36	-13.00	36.36	Vertical
6842.80	-66.11	5.86	-60.25	-13.00	47.25	Vertical
3421.40	-64.37	-2.22	-66.59	-13.00	53.59	Horizontal
5132.10	-55.95	3.86	-52.09	-13.00	39.09	Horizontal
6842.80	-65.79	6.07	-59.72	-13.00	46.72	Horizontal
Middle channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
3490.00	-59.28	-3.02	-62.30	-13.00	49.30	Vertical
5235.00	-53.42	3.17	-50.25	-13.00	37.25	Vertical
6980.00	-65.75	5.49	-60.26	-13.00	47.26	Vertical
3490.00	-63.94	-2.92	-66.86	-13.00	53.86	Horizontal
5235.00	-56.88	3.32	-53.56	-13.00	40.56	Horizontal
6980.00	-65.99	5.46	-60.53	-13.00	47.53	Horizontal
Highest channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
3558.60	-58.27	-2.25	-60.52	-13.00	47.52	Vertical
5337.90	-53.02	4.23	-48.79	-13.00	35.79	Vertical
7117.20	-65.40	5.53	-59.87	-13.00	46.87	Vertical
3558.60	-63.77	-2.22	-65.99	-13.00	52.99	Horizontal
5337.90	-56.15	4.19	-51.96	-13.00	38.96	Horizontal
7117.20	-65.66	5.32	-60.34	-13.00	47.34	Horizontal
Remark:						
1. The emission levels of below 1 GHz are lower than the limit 10dB, so not show in test report.						

ANT2:

LTE band 7 – 5 MHz bandwidth						
Lowest channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
5005.00	-60.39	3.69	-56.70	-25.00	31.70	Vertical
7507.50	-65.20	5.56	-59.64	-25.00	34.64	Vertical
10010.00	-67.66	10.09	-57.57	-25.00	32.57	Vertical
5005.00	-59.75	4.02	-55.73	-25.00	30.73	Horizontal
7507.50	-64.80	5.56	-59.24	-25.00	34.24	Horizontal
10010.00	-66.98	9.47	-57.51	-25.00	32.51	Horizontal
Middle channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
5070.00	-59.79	4.23	-55.56	-25.00	30.56	Vertical
7605.00	-65.03	6.06	-58.97	-25.00	33.97	Vertical
10140.00	-66.95	10.48	-56.47	-25.00	31.47	Vertical
5070.00	-58.88	3.51	-55.37	-25.00	30.37	Horizontal
7605.00	-64.79	5.95	-58.84	-25.00	33.84	Horizontal
10140.00	-66.63	10.21	-56.42	-25.00	31.42	Horizontal
Highest channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
5135.00	-60.01	3.78	-56.23	-25.00	31.23	Vertical
7702.50	-65.28	6.22	-59.06	-25.00	34.06	Vertical
10270.00	-68.04	11.48	-56.56	-25.00	31.56	Vertical
5135.00	-59.16	3.83	-55.33	-25.00	30.33	Horizontal
7702.50	-65.66	5.97	-59.69	-25.00	34.69	Horizontal
10270.00	-67.04	11.00	-56.04	-25.00	31.04	Horizontal
Remark:						
1. The emission levels of below 1 GHz are lower than the limit 10dB, so not show in test report.						

LTE band 12 – 1.4 MHz bandwidth						
Lowest channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
1399.40	-54.52	-11.68	-66.20	-13.00	53.20	Vertical
2099.10	-60.62	-9.89	-70.51	-13.00	57.51	Vertical
2798.80	-61.75	-7.09	-68.84	-13.00	55.84	Vertical
1399.40	-50.43	-11.43	-61.86	-13.00	48.86	Horizontal
2099.10	-60.41	-9.44	-69.85	-13.00	56.85	Horizontal
2798.80	-62.72	-6.71	-69.43	-13.00	56.43	Horizontal
Middle channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
1415.00	-53.96	-11.77	-65.73	-13.00	52.73	Vertical
2122.50	-59.72	-9.58	-69.30	-13.00	56.30	Vertical
2830.00	-61.41	-6.50	-67.91	-13.00	54.91	Vertical
1415.00	-50.34	-11.45	-61.79	-13.00	48.79	Horizontal
2122.50	-60.34	-8.86	-69.20	-13.00	56.20	Horizontal
2830.00	-61.68	-5.97	-67.65	-13.00	54.65	Horizontal
Highest channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
1430.60	-54.53	-11.92	-66.45	-13.00	53.45	Vertical
2145.90	-59.91	-9.51	-69.42	-13.00	56.42	Vertical
2861.20	-61.94	-5.55	-67.49	-13.00	54.49	Vertical
1430.60	-50.90	-11.66	-62.56	-13.00	49.56	Horizontal
2145.90	-61.23	-9.15	-70.38	-13.00	57.38	Horizontal
2861.20	-61.95	-5.44	-67.39	-13.00	54.39	Horizontal
Remark:						
1. The emission levels of below 1 GHz are lower than the limit 10dB, so not show in test report.						

LTE band 13 – 5 MHz bandwidth						
Lowest channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
1559.00	-60.19	-11.55	-71.74	-13.00	58.74	Vertical
2338.50	-61.51	-9.40	-70.91	-13.00	57.91	Vertical
3118.00	-61.50	-2.81	-64.31	-13.00	51.31	Vertical
1559.00	-59.87	-12.18	-72.05	-13.00	59.05	Horizontal
2338.50	-61.80	-9.26	-71.06	-13.00	58.06	Horizontal
3118.00	-61.66	-3.05	-64.71	-13.00	51.71	Horizontal
Middle channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
1564.00	-59.47	-11.57	-71.04	-13.00	58.04	Vertical
2346.00	-60.57	-9.38	-69.95	-13.00	56.95	Vertical
3128.00	-61.21	-2.66	-63.87	-13.00	50.87	Vertical
1564.00	-59.73	-12.12	-71.85	-13.00	58.85	Horizontal
2346.00	-60.64	-9.27	-69.91	-13.00	56.91	Horizontal
3128.00	-61.29	-3.01	-64.30	-13.00	51.30	Horizontal
Highest channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
1569.00	-59.59	-11.63	-71.22	-13.00	58.22	Vertical
2353.50	-61.03	-9.35	-70.38	-13.00	57.38	Vertical
3138.00	-62.27	-2.48	-64.75	-13.00	51.75	Vertical
1569.00	-60.00	-12.06	-72.06	-13.00	59.06	Horizontal
2353.50	-61.66	-9.28	-70.94	-13.00	57.94	Horizontal
3138.00	-61.68	-2.96	-64.64	-13.00	51.64	Horizontal
Remark:						
1. The emission levels of below 1 GHz are lower than the limit 10dB, so not show in test report.						

LTE band 25 – 1.4 MHz bandwidth						
Lowest channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
3701.40	-62.33	-0.36	-62.69	-13.00	49.69	Vertical
5552.10	-59.66	4.16	-55.50	-13.00	42.50	Vertical
7402.80	-66.87	6.10	-60.77	-13.00	47.77	Vertical
3701.40	-61.49	-0.17	-61.66	-13.00	48.66	Horizontal
5552.10	-64.51	4.07	-60.44	-13.00	47.44	Horizontal
7402.80	-66.51	5.76	-60.75	-13.00	47.75	Horizontal
Middle channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
3765.00	-61.92	-1.01	-62.93	-13.00	49.93	Vertical
5647.50	-58.88	3.85	-55.03	-13.00	42.03	Vertical
7530.00	-65.92	5.56	-60.36	-13.00	47.36	Vertical
3765.00	-60.50	-0.54	-61.04	-13.00	48.04	Horizontal
5647.50	-63.72	4.08	-59.64	-13.00	46.64	Horizontal
7530.00	-65.66	5.56	-60.10	-13.00	47.10	Horizontal
Highest channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
3828.60	-62.80	-0.36	-63.16	-13.00	50.16	Vertical
5742.90	-59.93	3.50	-56.43	-13.00	43.43	Vertical
7657.20	-67.04	6.54	-60.50	-13.00	47.50	Vertical
3828.60	-61.12	0.06	-61.06	-13.00	48.06	Horizontal
5742.90	-63.84	3.85	-59.99	-13.00	46.99	Horizontal
7657.20	-66.82	6.33	-60.49	-13.00	47.49	Horizontal
Remark:						
1. The emission levels of below 1 GHz are lower than the limit 10dB, so not show in test report.						

LTE band 26(Part 22) – 1.4 MHz bandwidth						
Lowest channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
1649.40	-63.22	-11.51	-74.73	-13.00	61.73	Vertical
2474.10	-61.65	-8.67	-70.32	-13.00	57.32	Vertical
3298.80	-64.39	-3.89	-68.28	-13.00	55.28	Vertical
1649.40	-62.67	-10.85	-73.52	-13.00	60.52	Horizontal
2474.10	-61.93	-9.13	-71.06	-13.00	58.06	Horizontal
3298.80	-63.05	-3.96	-67.01	-13.00	54.01	Horizontal
Middle channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
1673.00	-62.03	-10.70	-72.73	-13.00	59.73	Vertical
2509.50	-61.37	-8.66	-70.03	-13.00	57.03	Vertical
3346.00	-63.37	-3.33	-66.70	-13.00	53.70	Vertical
1673.00	-61.89	-10.28	-72.17	-13.00	59.17	Horizontal
2509.50	-61.41	-8.73	-70.14	-13.00	57.14	Horizontal
3346.00	-62.79	-3.42	-66.21	-13.00	53.21	Horizontal
Highest channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
1696.60	-62.95	-9.90	-72.85	-13.00	59.85	Vertical
2544.90	-62.10	-8.45	-70.55	-13.00	57.55	Vertical
3393.20	-64.58	-2.59	-67.17	-13.00	54.17	Vertical
1696.60	-62.05	-9.70	-71.75	-13.00	58.75	Horizontal
2544.90	-62.07	-8.21	-70.28	-13.00	57.28	Horizontal
3393.20	-63.00	-2.65	-65.65	-13.00	52.65	Horizontal
Remark:						
1. The emission levels of below 1 GHz are lower than the limit 10dB, so not show in test report.						

LTE band 26(Part 90) – 1.4 MHz bandwidth						
Lowest channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
1629.40	-61.70	-12.21	-73.91	-13.00	60.91	Vertical
2444.10	-61.43	-8.84	-70.27	-13.00	57.27	Vertical
3258.80	-63.27	-3.57	-66.84	-13.00	53.84	Vertical
1629.40	-61.88	-11.35	-73.23	-13.00	60.23	Horizontal
2444.10	-61.00	-9.23	-70.23	-13.00	57.23	Horizontal
3258.80	-62.96	-3.42	-66.38	-13.00	53.38	Horizontal
Middle channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
1638.00	-61.06	-11.90	-72.96	-13.00	59.96	Vertical
2457.00	-60.19	-8.75	-68.94	-13.00	55.94	Vertical
3276.00	-62.17	-3.71	-65.88	-13.00	52.88	Vertical
1638.00	-61.03	-11.13	-72.16	-13.00	59.16	Horizontal
2457.00	-60.37	-9.20	-69.57	-13.00	56.57	Horizontal
3276.00	-62.25	-3.65	-65.90	-13.00	52.90	Horizontal
Highest channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
1646.60	-61.32	-11.60	-72.92	-13.00	59.92	Vertical
2469.90	-61.19	-8.67	-69.86	-13.00	56.86	Vertical
3293.20	-62.73	-3.85	-66.58	-13.00	53.58	Vertical
1646.60	-61.18	-10.92	-72.10	-13.00	59.10	Horizontal
2469.90	-60.49	-9.18	-69.67	-13.00	56.67	Horizontal
3293.20	-62.80	-3.88	-66.68	-13.00	53.68	Horizontal
Remark:						
1. The emission levels of below 1 GHz are lower than the limit 10dB, so not show in test report.						

LTE band 41 – 5 MHz bandwidth						
Lowest channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
4997.00	-59.58	3.56	-56.02	-25.00	31.02	Vertical
7495.50	-66.53	5.68	-60.85	-25.00	35.85	Vertical
9994.00	-67.09	9.96	-57.13	-25.00	32.13	Vertical
4997.00	-59.43	4.08	-55.35	-25.00	30.35	Horizontal
7495.50	-65.55	5.52	-60.03	-25.00	35.03	Horizontal
9994.00	-66.83	9.64	-57.19	-25.00	32.19	Horizontal
Middle channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
5186.00	-58.72	3.35	-55.37	-25.00	30.37	Vertical
7779.00	-65.58	8.21	-57.37	-25.00	32.37	Vertical
10372.00	-66.66	10.91	-55.75	-25.00	30.75	Vertical
5186.00	-58.35	3.29	-55.06	-25.00	30.06	Horizontal
7779.00	-65.14	8.05	-57.09	-25.00	32.09	Horizontal
10372.00	-66.35	10.39	-55.96	-25.00	30.96	Horizontal
Highest channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
5375.00	-59.25	4.30	-54.95	-25.00	29.95	Vertical
8062.50	-66.29	8.18	-58.11	-25.00	33.11	Vertical
10750.00	-66.70	11.78	-54.92	-25.00	29.92	Vertical
5375.00	-58.66	4.29	-54.37	-25.00	29.37	Horizontal
8062.50	-65.24	8.89	-56.35	-25.00	31.35	Horizontal
10750.00	-67.01	11.20	-55.81	-25.00	30.81	Horizontal
Remark:						
1. The emission levels of below 1 GHz are lower than the limit 10dB, so not show in test report.						

LTE band 66 – 1.4 MHz bandwidth						
Lowest channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
3421.40	-58.50	-2.15	-60.65	-13.00	47.65	Vertical
5132.10	-53.20	3.80	-49.40	-13.00	36.40	Vertical
6842.80	-65.90	5.86	-60.04	-13.00	47.04	Vertical
3421.40	-63.87	-2.22	-66.09	-13.00	53.09	Horizontal
5132.10	-56.21	3.86	-52.35	-13.00	39.35	Horizontal
6842.80	-65.51	6.07	-59.44	-13.00	46.44	Horizontal
Middle channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
3490.00	-58.20	-3.02	-61.22	-13.00	48.22	Vertical
5235.00	-52.80	3.17	-49.63	-13.00	36.63	Vertical
6980.00	-65.38	5.49	-59.89	-13.00	46.89	Vertical
3490.00	-63.36	-2.92	-66.28	-13.00	53.28	Horizontal
5235.00	-55.91	3.32	-52.59	-13.00	39.59	Horizontal
6980.00	-65.29	5.46	-59.83	-13.00	46.83	Horizontal
Highest channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
3558.60	-58.76	-2.25	-61.01	-13.00	48.01	Vertical
5337.90	-53.30	4.23	-49.07	-13.00	36.07	Vertical
7117.20	-66.24	5.53	-60.71	-13.00	47.71	Vertical
3558.60	-63.90	-2.22	-66.12	-13.00	53.12	Horizontal
5337.90	-56.65	4.19	-52.46	-13.00	39.46	Horizontal
7117.20	-66.32	5.32	-61.00	-13.00	48.00	Horizontal
Remark:						
1. The emission levels of below 1 GHz are lower than the limit 10dB, so not show in test report.						

CA band 2 – 1.4 MHz bandwidth						
Lowest channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
3701.40	-62.49	-0.36	-62.85	-13.00	49.85	Vertical
5552.10	-59.39	4.16	-55.23	-13.00	42.23	Vertical
7402.00	-66.27	6.10	-60.17	-13.00	47.17	Vertical
3701.40	-61.31	-0.17	-61.48	-13.00	48.48	Horizontal
5552.10	-64.91	4.07	-60.84	-13.00	47.84	Horizontal
7402.00	-66.65	5.78	-60.87	-13.00	47.87	Horizontal
Middle channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
3760.00	-62.71	-1.01	-63.72	-13.00	50.72	Vertical
5640.00	-59.84	3.96	-55.88	-13.00	42.88	Vertical
7520.00	-66.08	5.55	-60.53	-13.00	47.53	Vertical
3760.00	-60.53	-0.56	-61.09	-13.00	48.09	Horizontal
5640.00	-64.86	4.14	-60.72	-13.00	47.72	Horizontal
7520.00	-66.37	5.56	-60.81	-13.00	47.81	Horizontal
Highest channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
3816.60	-62.12	-0.59	-62.71	-13.00	49.71	Vertical
5724.90	-59.53	3.42	-56.11	-13.00	43.11	Vertical
7633.20	-66.67	6.40	-60.27	-13.00	47.27	Vertical
3816.60	-60.66	-0.10	-60.76	-13.00	47.76	Horizontal
5724.90	-64.57	3.80	-60.77	-13.00	47.77	Horizontal
7633.20	-66.40	6.24	-60.16	-13.00	47.16	Horizontal
Remark:						
1. The emission levels of below 1 GHz are lower than the limit 10dB, so not show in test report.						

CA band 5 – 1.4 MHz bandwidth						
Lowest channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
1649.40	-62.43	-11.51	-73.94	-13.00	60.94	Vertical
2474.10	-62.24	-8.67	-70.91	-13.00	57.91	Vertical
3298.80	-64.60	-3.89	-68.49	-13.00	55.49	Vertical
1649.40	-62.51	-10.85	-73.36	-13.00	60.36	Horizontal
2474.10	-62.43	-9.13	-71.56	-13.00	58.56	Horizontal
3298.80	-63.04	-3.96	-67.00	-13.00	54.00	Horizontal
Middle channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
1673.30	-62.08	-10.70	-72.78	-13.00	59.78	Vertical
2509.50	-61.61	-8.66	-70.27	-13.00	57.27	Vertical
3346.00	-63.86	-3.33	-67.19	-13.00	54.19	Vertical
1673.30	-62.67	-10.28	-72.95	-13.00	59.95	Horizontal
2509.50	-61.66	-8.73	-70.39	-13.00	57.39	Horizontal
3346.00	-63.69	-3.42	-67.11	-13.00	54.11	Horizontal
Highest channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
1696.60	-62.46	-9.90	-72.36	-13.00	59.36	Vertical
2544.90	-61.45	-8.45	-69.90	-13.00	56.90	Vertical
3393.20	-63.40	-2.59	-65.99	-13.00	52.99	Vertical
1696.60	-62.44	-9.70	-72.14	-13.00	59.14	Horizontal
2544.90	-61.75	-8.21	-69.96	-13.00	56.96	Horizontal
3393.20	-63.34	-2.65	-65.99	-13.00	52.99	Horizontal
Remark:						
1. The emission levels of below 1 GHz are lower than the limit 10dB, so not show in test report.						

CA band 7 – 5 MHz bandwidth						
Lowest channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
5005.00	-60.24	3.69	-56.55	-25.00	31.55	Vertical
7507.50	-65.04	5.56	-59.48	-25.00	34.48	Vertical
10010.00	-67.43	10.09	-57.34	-25.00	32.34	Vertical
5005.00	-59.45	4.02	-55.43	-25.00	30.43	Horizontal
7507.50	-64.86	5.56	-59.30	-25.00	34.30	Horizontal
10010.00	-67.03	9.47	-57.56	-25.00	32.56	Horizontal
Middle channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
5070.00	-60.82	4.23	-56.59	-25.00	31.59	Vertical
7605.00	-65.68	6.06	-59.62	-25.00	34.62	Vertical
10140.00	-67.99	10.48	-57.51	-25.00	32.51	Vertical
5070.00	-59.42	3.51	-55.91	-25.00	30.91	Horizontal
7605.00	-65.51	5.95	-59.56	-25.00	34.56	Horizontal
10140.00	-66.64	10.21	-56.43	-25.00	31.43	Horizontal
Highest channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
5135.00	-59.95	3.78	-56.17	-25.00	31.17	Vertical
7702.50	-65.24	6.22	-59.02	-25.00	34.02	Vertical
10270.00	-67.67	11.48	-56.19	-25.00	31.19	Vertical
5135.00	-58.99	3.83	-55.16	-25.00	30.16	Horizontal
7702.50	-65.32	5.97	-59.35	-25.00	34.35	Horizontal
10270.00	-67.41	11.00	-56.41	-25.00	31.41	Horizontal
Remark:						
1. The emission levels of below 1 GHz are lower than the limit 10dB, so not show in test report.						

CA band 41 – 5 MHz bandwidth						
Lowest channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
4997.00	-59.58	3.56	-56.02	-25.00	31.02	Vertical
7495.50	-66.53	5.68	-60.85	-25.00	35.85	Vertical
9994.00	-67.09	9.96	-57.13	-25.00	32.13	Vertical
4997.00	-59.43	4.08	-55.35	-25.00	30.35	Horizontal
7495.50	-65.55	5.52	-60.03	-25.00	35.03	Horizontal
9994.00	-66.83	9.64	-57.19	-25.00	32.19	Horizontal
Middle channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
5186.00	-58.72	3.35	-55.37	-25.00	30.37	Vertical
7779.00	-65.58	8.21	-57.37	-25.00	32.37	Vertical
10372.00	-66.66	10.91	-55.75	-25.00	30.75	Vertical
5186.00	-58.35	3.29	-55.06	-25.00	30.06	Horizontal
7779.00	-65.14	8.05	-57.09	-25.00	32.09	Horizontal
10372.00	-66.35	10.39	-55.96	-25.00	30.96	Horizontal
Highest channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
5375.00	-59.25	4.30	-54.95	-25.00	29.95	Vertical
8062.50	-66.29	8.18	-58.11	-25.00	33.11	Vertical
10750.00	-66.70	11.78	-54.92	-25.00	29.92	Vertical
5375.00	-58.66	4.29	-54.37	-25.00	29.37	Horizontal
8062.50	-65.24	8.89	-56.35	-25.00	31.35	Horizontal
10750.00	-67.01	11.20	-55.81	-25.00	30.81	Horizontal
Remark:						
1. The emission levels of below 1 GHz are lower than the limit 10dB, so not show in test report.						

CA band 66 – 1.4 MHz bandwidth						
Lowest channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
3421.40	-58.62	-2.15	-60.77	-13.00	47.77	Vertical
5132.10	-52.87	3.80	-49.07	-13.00	36.07	Vertical
6842.80	-66.31	5.86	-60.45	-13.00	47.45	Vertical
3421.40	-63.69	-2.22	-65.91	-13.00	52.91	Horizontal
5132.10	-56.03	3.86	-52.17	-13.00	39.17	Horizontal
6842.80	-65.37	6.07	-59.30	-13.00	46.30	Horizontal
Middle channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
3490.00	-59.05	-3.02	-62.07	-13.00	49.07	Vertical
5235.00	-52.89	3.17	-49.72	-13.00	36.72	Vertical
6980.00	-65.89	5.49	-60.40	-13.00	47.40	Vertical
3490.00	-64.52	-2.92	-67.44	-13.00	54.44	Horizontal
5235.00	-55.95	3.32	-52.63	-13.00	39.63	Horizontal
6980.00	-65.86	5.46	-60.40	-13.00	47.40	Horizontal
Highest channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
3558.60	-58.98	-2.25	-61.23	-13.00	48.23	Vertical
5337.90	-53.01	4.23	-48.78	-13.00	35.78	Vertical
7117.20	-66.32	5.53	-60.79	-13.00	47.79	Vertical
3558.60	-64.38	-2.22	-66.60	-13.00	53.60	Horizontal
5337.90	-56.16	4.19	-51.97	-13.00	38.97	Horizontal
7117.20	-65.48	5.32	-60.16	-13.00	47.16	Horizontal
Remark:						
1. The emission levels of below 1 GHz are lower than the limit 10dB, so not show in test report.						

-----End of report-----