

TEST REPORT

CERTIFICATE OF CONFORMITY

Standard: 47 CFR FCC Part 22
47 CFR FCC Part 24
47 CFR FCC Part 27
47 CFR FCC Part 90
47 CFR FCC Part 2

Report No.: RFCDVB-WTW-P24010025-2

FCC ID: QYLFN990S5

Product: 5G NR Module

Brand: Getac

Model No.: FN990A28

Received Date: 2024/1/20

Test Date: 2024/3/6 ~ 2024/5/16

Issued Date: 2024/5/31

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FCC Registration / 788550 / TW0003

Designation Number:

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Date:

2024/5/31

Jeremy Lin / Project Engineer

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Prepared by : Vera Huang / Specialist

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Release Control Record

Issue No.	Description	Date Issued
RFCDVB-WTW-P24010025-2	Original Release	2024/5/31

1 Certificate

Product: 5G NR Module

Brand: Getac

Test Model: FN990A28

Sample Status: Engineering sample

Applicant: Getac Technology Corporation.

Test Date: 2024/3/6 ~ 2024/5/16

Standard: 47 CFR FCC Part 22
47 CFR FCC Part 24
47 CFR FCC Part 27
47 CFR FCC Part 90
47 CFR FCC Part 2

Measurement ANSI/TIA/EIA-603-E 2016

procedure: ANSI C63.26-2015

KDB 971168 D01 Power Meas License Digital Systems v03r01

KDB 971168 D02 Misc Rev Approv License Devices v02r02

The above equipment has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's RF characteristics under the conditions specified in this report.

2 Summary of Test Results

Standard / Clause	Test Item	Result	Remark
Part 2.1046 Part 22.913 (a) Part 24.232 (c) Part 27.50 (d) Part 27.50 (h) Part 27.50 (c) Part 27.50 (b) Part 27.50 (k) Part 90.635 (b) Part 90.542 (a)	Effective Radiated Power and Equivalent Isotropically Radiated Power	Pass	Meet the requirement of limit.
Part 2.1047	Modulation Characteristics	N/A	Refer to Note
Part 2.1046 Part 22.913 (d) Part 24.232 (d) Part 27.50 (d) Part 27.50 (k)	Peak to Average Ratio	N/A	Refer to Note
Part 2.1049	Bandwidth	N/A	Refer to Note
Part 2.1051 Part 22.917 Part 24.238 Part 27.53 (h) Part 27.53 (m) Part 27.53 (g) Part 27.53 (n) Part 27.53 (c)(f) Part 90.691 Part 90.543 (e)(f)	Conducted Spurious Emissions	N/A	Refer to Note
Part 2.1053 Part 22.917 Part 24.238 Part 27.53 (h) Part 27.53 (m) Part 27.53 (g) Part 27.53 (n) Part 27.53 (c)(f) Part 90.691 Part 90.543 (e)(f)	Radiated Spurious Emissions below 1GHz	Pass	Minimum passing margin is -27.31 dB at 377.23 MHz
Part 2.1053 Part 22.917 Part 24.238 Part 27.53 (h) Part 27.53 (m) Part 27.53 (g) Part 27.53 (n) Part 27.53 (c)(f) Part 90.691 Part 90.543 (e)(f)	Radiated Spurious Emissions above 1GHz	Pass	Minimum passing margin is -6.84 dB at 1564.00 MHz
Part 2.1055 Part 22.355 Part 24.235 Part 27.54 Part 90.213 Part 90.539 (e)	Frequency Stability	N/A	Refer to Note

Note:

- Only test item of Effective Radiated Power and Equivalent Isotropically Radiated Power and Radiated Spurious Emissions were performed for this report. Other testing data please refer to SPORTON lab report no.: 270608-01 for module (Brand: Telit, Model: FN990A28).
- Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

2.1 Measurement Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

Parameter	Specification	Uncertainty (±)
Radiated Spurious Emissions below 1GHz	9 kHz ~ 30 MHz	3.59 dB
	30 MHz ~ 1 GHz	3.64 dB
Radiated Spurious Emissions above 1GHz	1 GHz ~ 18 GHz	2.29 dB
	18 GHz ~ 40 GHz	2.29 dB

The other instruments specified are routine verified to remain within the calibrated levels, no measurement uncertainty is required to be calculated.

2.2 Supplementary Information

There is not any deviation from the test standards for the test method, and no modifications required for compliance.

3 General Information

3.1 General Description of EUT

Product	5G NR Module
Brand	Getac
Test Model	FN990A28
Status of EUT	Engineering sample
Power Supply Rating	Refer to note

Note:

1. This report is prepared for FCC class II permissive change application. The EUT is authorized for use in specific End-product. Please refer to below for more details.

Product	Brand	Model	Difference
Notebook	Getac	S510	marketing purpose
		S510Y (Y= 10 characters, Y can be 0 to 9, A to Z, a to z, "/", "\", "-", "_" or blank for marketing purpose)	

2. The End-product uses following accessories.

Battery		
Brand	Model	Specification
Getac	BP3S2P3450P-04	Power Rating : Rating: 10.8Vdc , 6600mAh, 72Wh Typical Capacity: 6900mAh, 75Wh
AC Adapter 1		
Brand	Model	Specification
FSP	FSP065-RBBN3	AC Input : 100-240 Vac ; 50-60 Hz ; 1.5 A DC Output : 19.0Vdc ; 3.42A, 65.0W DC Output Cable : 1.45M / 1core AC Power Cord : 1.75M
AC Adapter 2		
Brand	Model	Specification
FSP	FSP090-ABBN3	AC Input : 100-240 Vac ; 50-60 Hz ; 1.2 A DC Output : 19.0Vdc ; 4.74A, 90.0W DC Output Cable : 1.2M / 1 core AC Power Cord : 1.75M
Touch Pen		
Brand	Model	
Getac	340GA8900001	

* After pretesting, Adapter 2 was the worst case and chosen for final test.

3. EUT Overview

Band / Bandwidth	TX Frequency Range (MHz)	Max. EIRP Power			
		QPSK	16QAM	64QAM	256QAM
LTE Band 2 (Channel Bandwidth 1.4MHz)	1850.7-1909.3	237.137mW (23.75dBm)	198.153mW (22.97dBm)	177.419mW (22.49dBm)	87.902mW (19.44dBm)
LTE Band 2 (Channel Bandwidth 3MHz)	1851.5-1908.5	237.137mW (23.75dBm)	201.372mW (23.04dBm)	178.238mW (22.51dBm)	87.902mW (19.44dBm)
LTE Band 2 (Channel Bandwidth 5MHz)	1852.5-1907.5	237.684mW (23.76dBm)	202.302mW (23.06dBm)	178.649mW (22.52dBm)	88.308mW (19.46dBm)
LTE Band 2 (Channel Bandwidth 10MHz)	1855.0-1905.0	238.232mW (23.77dBm)	203.704mW (23.09dBm)	180.717mW (22.57dBm)	86.497mW (19.37dBm)
LTE Band 2 (Channel Bandwidth 15MHz)	1857.5-1902.5	237.137mW (23.75dBm)	199.986mW (23.01dBm)	179.887mW (22.55dBm)	87.700mW (19.43dBm)
LTE Band 2 (Channel Bandwidth 20MHz)	1860.0-1900.0	241.546mW (23.83dBm)	207.970mW (23.18dBm)	182.390mW (22.61dBm)	89.536mW (19.52dBm)
LTE Band 4 (Channel Bandwidth 1.4MHz)	1710.7-1754.3	309.742mW (24.91dBm)	250.611mW (23.99dBm)	204.644mW (23.11dBm)	101.158mW (20.05dBm)
LTE Band 4 (Channel Bandwidth 3MHz)	1711.5-1753.5	299.916mW (24.77dBm)	245.471mW (23.90dBm)	199.986mW (23.01dBm)	101.859mW (20.08dBm)
LTE Band 4 (Channel Bandwidth 5MHz)	1712.5-1752.5	306.902mW (24.87dBm)	248.313mW (23.95dBm)	200.909mW (23.03dBm)	100.231mW (20.01dBm)
LTE Band 4 (Channel Bandwidth 10MHz)	1715.0-1750.0	307.610mW (24.88dBm)	248.886mW (23.96dBm)	201.837mW (23.05dBm)	100.000mW (20.00dBm)
LTE Band 4 (Channel Bandwidth 15MHz)	1717.5-1747.5	306.196mW (24.86dBm)	248.886mW (23.96dBm)	203.704mW (23.09dBm)	103.039mW (20.13dBm)
LTE Band 4 (Channel Bandwidth 20MHz)	1720.0-1745.0	313.329mW (24.96dBm)	252.930mW (24.03dBm)	204.644mW (23.11dBm)	103.753mW (20.16dBm)
LTE Band 7 (Channel Bandwidth 5MHz)	2502.5-2567.5	258.821mW (24.13dBm)	220.800mW (23.44dBm)	169.044mW (22.28dBm)	95.499mW (19.80dBm)
LTE Band 7 (Channel Bandwidth 10MHz)	2505.0-2565.0	254.683mW (24.06dBm)	224.905mW (23.52dBm)	165.577mW (22.19dBm)	95.280mW (19.79dBm)
LTE Band 7 (Channel Bandwidth 15MHz)	2507.5-2562.5	252.348mW (24.02dBm)	222.331mW (23.47dBm)	167.109mW (22.23dBm)	96.161mW (19.83dBm)
LTE Band 7 (Channel Bandwidth 20MHz)	2510.0-2560.0	261.818mW (24.18dBm)	229.087mW (23.60dBm)	171.002mW (22.33dBm)	95.060mW (19.78dBm)
LTE Band 25 (Channel Bandwidth 1.4MHz)	1850.7-1914.3	255.859mW (24.08dBm)	214.783mW (23.32dBm)	171.791mW (22.35dBm)	90.991mW (19.59dBm)
LTE Band 25 (Channel Bandwidth 3MHz)	1851.5-1913.5	254.683mW (24.06dBm)	215.774mW (23.34dBm)	171.791mW (22.35dBm)	91.201mW (19.60dBm)
LTE Band 25 (Channel Bandwidth 5MHz)	1852.5-1912.5	254.097mW (24.05dBm)	215.774mW (23.34dBm)	167.880mW (22.25dBm)	92.897mW (19.68dBm)
LTE Band 25 (Channel Bandwidth 10MHz)	1855.0-1910.0	259.418mW (24.14dBm)	215.278mW (23.33dBm)	171.396mW (22.34dBm)	90.782mW (19.58dBm)
LTE Band 25 (Channel Bandwidth 15MHz)	1857.5-1907.5	257.632mW (24.11dBm)	214.289mW (23.31dBm)	167.494mW (22.24dBm)	92.257mW (19.65dBm)
LTE Band 25 (Channel Bandwidth 20MHz)	1860.0-1905.0	261.818mW (24.18dBm)	220.293mW (23.43dBm)	173.380mW (22.39dBm)	93.972mW (19.73dBm)

Band / Bandwidth	TX Frequency Range (MHz)	Max. EIRP Power			
		QPSK	16QAM	64QAM	256QAM
LTE Band 38 (Channel Bandwidth 5MHz)	2572.5-2617.5	223.872mW (23.50dBm)	173.780mW (22.40dBm)	135.207mW (21.31dBm)	70.958mW (18.51dBm)
LTE Band 38 (Channel Bandwidth 10MHz)	2575.0-2615.0	217.771mW (23.38dBm)	174.582mW (22.42dBm)	134.896mW (21.30dBm)	71.285mW (18.53dBm)
LTE Band 38 (Channel Bandwidth 15MHz)	2577.5-2612.5	219.786mW (23.42dBm)	177.419mW (22.49dBm)	138.995mW (21.43dBm)	70.958mW (18.51dBm)
LTE Band 38 (Channel Bandwidth 20MHz)	2580.0-2610.0	226.986mW (23.56dBm)	179.473mW (22.54dBm)	139.959mW (21.46dBm)	71.945mW (18.57dBm)
LTE Band 41 (Channel Bandwidth 5MHz)	2498.5-2687.5	465.586mW (26.68dBm)	371.535mW (25.70dBm)	294.442mW (24.69dBm)	153.815mW (21.87dBm)
LTE Band 41 (Channel Bandwidth 10MHz)	2501.0-2685.0	466.659mW (26.69dBm)	370.681mW (25.69dBm)	293.765mW (24.68dBm)	150.661mW (21.78dBm)
LTE Band 41 (Channel Bandwidth 15MHz)	2503.5-2682.5	469.894mW (26.72dBm)	372.392mW (25.71dBm)	293.089mW (24.67dBm)	153.109mW (21.85dBm)
LTE Band 41 (Channel Bandwidth 20MHz)	2506.0-2680.0	478.630mW (26.80dBm)	390.841mW (25.92dBm)	299.226mW (24.76dBm)	151.705mW (21.81dBm)
LTE Band 42 (Channel Bandwidth 5MHz)	3452.5-3547.5	96.383mW (19.84dBm)	77.804mW (18.91dBm)	59.293mW (17.73dBm)	30.761mW (14.88dBm)
LTE Band 42 (Channel Bandwidth 10MHz)	3455.0-3545.0	99.541mW (19.98dBm)	77.983mW (18.92dBm)	60.814mW (17.84dBm)	30.832mW (14.89dBm)
LTE Band 42 (Channel Bandwidth 15MHz)	3457.5-3542.5	99.770mW (19.99dBm)	78.163mW (18.93dBm)	61.944mW (17.92dBm)	30.974mW (14.91dBm)
LTE Band 42 (Channel Bandwidth 20MHz)	3460.5-3540.0	100.462mW (20.02dBm)	80.353mW (19.05dBm)	63.533mW (18.03dBm)	31.842mW (15.03dBm)
LTE Band 66 (Channel Bandwidth 1.4 MHz)	1710.7-1779.3	311.172mW (24.93dBm)	270.396mW (24.32dBm)	208.449mW (23.19dBm)	109.396mW (20.39dBm)
LTE Band 66 (Channel Bandwidth 3MHz)	1711.5-1778.5	322.107mW (25.08dBm)	267.917mW (24.28dBm)	206.063mW (23.14dBm)	109.144mW (20.38dBm)
LTE Band 66 (Channel Bandwidth 5MHz)	1712.5-1777.5	316.228mW (25.00dBm)	266.073mW (24.25dBm)	205.116mW (23.12dBm)	108.643mW (20.36dBm)
LTE Band 66 (Channel Bandwidth 10MHz)	1715.0-1775.0	316.228mW (25.00dBm)	269.774mW (24.31dBm)	205.589mW (23.13dBm)	109.648mW (20.40dBm)
LTE Band 66 (Channel Bandwidth 15MHz)	1717.5-1772.5	319.154mW (25.04dBm)	271.019mW (24.33dBm)	206.538mW (23.15dBm)	108.393mW (20.35dBm)
LTE Band 66 (Channel Bandwidth 20MHz)	1720.0-1770.0	322.849mW (25.09dBm)	272.898mW (24.36dBm)	210.863mW (23.24dBm)	110.408mW (20.43dBm)

Band / Bandwidth	TX Frequency Range (MHz)	Max. ERP Power			
		QPSK	16QAM	64QAM	256QAM
LTE Band 5 (Channel Bandwidth 1.4MHz)	824.7-848.3	133.352mW (21.25dBm)	109.396mW (20.39dBm)	90.991mW (19.59dBm)	42.560mW (16.29dBm)
LTE Band 5 (Channel Bandwidth 3MHz)	825.5-847.5	128.529mW (21.09dBm)	111.429mW (20.47dBm)	90.782mW (19.58dBm)	42.954mW (16.33dBm)
LTE Band 5 (Channel Bandwidth 5MHz)	826.5-846.5	129.122mW (21.11dBm)	107.895mW (20.33dBm)	91.411mW (19.61dBm)	42.855mW (16.32dBm)
LTE Band 5 (Channel Bandwidth 10MHz)	829.0-844.0	133.660mW (21.26dBm)	112.202mW (20.50dBm)	92.897mW (19.68dBm)	43.752mW (16.41dBm)
LTE Band 12 (Channel Bandwidth 1.4MHz)	699.7-715.3	241.546mW (23.83dBm)	220.293mW (23.43dBm)	162.930mW (22.12dBm)	85.704mW (19.33dBm)
LTE Band 12 (Channel Bandwidth 3MHz)	700.5-714.5	249.459mW (23.97dBm)	215.774mW (23.34dBm)	163.682mW (22.14dBm)	84.918mW (19.29dBm)
LTE Band 12 (Channel Bandwidth 5MHz)	701.5-713.5	250.035mW (23.98dBm)	217.270mW (23.37dBm)	161.065mW (22.07dBm)	86.896mW (19.39dBm)
LTE Band 12 (Channel Bandwidth 10MHz)	704.0-711.0	253.513mW (24.04dBm)	221.820mW (23.46dBm)	166.341mW (22.21dBm)	87.096mW (19.40dBm)
LTE Band 13 (Channel Bandwidth 5MHz)	779.5-784.5	153.462mW (21.86dBm)	131.522mW (21.19dBm)	98.175mW (19.92dBm)	55.335mW (17.43dBm)
LTE Band 13 (Channel Bandwidth 10MHz)	782.0	155.239mW (21.91dBm)	133.352mW (21.25dBm)	100.231mW (20.01dBm)	57.280mW (17.58dBm)

Band / Bandwidth		TX Frequency Range (MHz)	Max. ERP Power			
			QPSK	16QAM	64QAM	256QAM
LTE Band 14 (Channel Bandwidth 5MHz)		790.5-795.5	147.571mW (21.69dBm)	126.474mW (21.02dBm)	94.406mW (19.75dBm)	56.234mW (17.50dBm)
LTE Band 14 (Channel Bandwidth 10MHz)		793	151.356mW (21.80dBm)	132.739mW (21.23dBm)	98.628mW (19.94dBm)	57.016mW (17.56dBm)
LTE Band 17 (Channel Bandwidth 5MHz)		706.5-713.5	243.220mW (23.86dBm)	209.411mW (23.21dBm)	165.577mW (22.19dBm)	81.846mW (19.13dBm)
LTE Band 17 (Channel Bandwidth 10MHz)		709.0-711.0	249.459mW (23.97dBm)	217.771mW (23.38dBm)	169.044mW (22.28dBm)	82.985mW (19.19dBm)
For Part 90	LTE Band 26 (Channel Bandwidth 1.4MHz)	814.7-823.3	133.660mW (21.26dBm)	108.893mW (20.37dBm)	85.310mW (19.31dBm)	57.016mW (17.56dBm)
	LTE Band 26 (Channel Bandwidth 3MHz)	815.5-822.5	132.739mW (21.23dBm)	108.893mW (20.37dBm)	85.310mW (19.31dBm)	45.604mW (16.59dBm)
	LTE Band 26 (Channel Bandwidth 5MHz)	816.5-821.5	135.519mW (21.32dBm)	109.144mW (20.38dBm)	85.901mW (19.34dBm)	46.345mW (16.66dBm)
	LTE Band 26 (Channel Bandwidth 10MHz)	819.0	129.420mW (21.12dBm)	109.144mW (20.38dBm)	83.560mW (19.22dBm)	44.771mW (16.51dBm)
	LTE Band 26 (Channel Bandwidth 15MHz)	821.5	133.660mW (21.26dBm)	106.905mW (20.29dBm)	85.507mW (19.32dBm)	45.604mW (16.59dBm)
For Part 22	LTE Band 26 (Channel Bandwidth 1.4MHz)	824.7-848.3	131.826mW (21.20dBm)	104.232mW (20.18dBm)	82.794mW (19.18dBm)	55.590mW (17.45dBm)
	LTE Band 26 (Channel Bandwidth 3MHz)	825.5-847.5	132.434mW (21.22dBm)	103.753mW (20.16dBm)	81.846mW (19.13dBm)	43.954mW (16.43dBm)
	LTE Band 26 (Channel Bandwidth 5MHz)	826.5-846.5	130.617mW (21.16dBm)	104.954mW (20.21dBm)	82.414mW (19.16dBm)	44.978mW (16.53dBm)
	LTE Band 26 (Channel Bandwidth 10MHz)	829.0-844.0	133.352mW (21.25dBm)	105.439mW (20.23dBm)	82.604mW (19.17dBm)	45.394mW (16.57dBm)
	LTE Band 26 (Channel Bandwidth 15MHz)	831.5-841.5	134.896mW (21.30dBm)	107.399mW (20.31dBm)	84.528mW (19.27dBm)	45.499mW (16.58dBm)
LTE Band 71 (Channel Bandwidth 5MHz)		665.5-695.5	247.742mW (23.94dBm)	206.538mW (23.15dBm)	160.325mW (22.05dBm)	85.901mW (19.34dBm)
LTE Band 71 (Channel Bandwidth 10MHz)		668.0-693.0	239.883mW (23.80dBm)	202.768mW (23.07dBm)	161.065mW (22.07dBm)	85.704mW (19.33dBm)
LTE Band 71 (Channel Bandwidth 15MHz)		670.5-690.5	240.991mW (23.82dBm)	203.704mW (23.09dBm)	159.956mW (22.04dBm)	85.704mW (19.33dBm)
LTE Band 71 (Channel Bandwidth 20MHz)		673.0-688.0	250.611mW (23.99dBm)	207.491mW (23.17dBm)	164.816mW (22.17dBm)	86.298mW (19.36dBm)

4. The above EUT information is declared by manufacturer and for more detailed features description, please refers to the manufacturer's specifications or user's manual.

3.2 Antenna Description of EUT

1. The antenna information is listed as below.

Antenna Type	Antenna Connector	Band	Peak Gain (dBi)			
			Main (Ant. 0)	Aux. (Ant. 2)	MIMO1 (Ant. 1)	MIMO2 (Ant. 3)
PIFA	MHF-4	LTE 2	1.3	-	-	-
		LTE 4	2.3	-	-	-
		LTE 5	0.5	-	-	-
		LTE 7	1.37	-	-	-
		LTE 12	2.92	-	-	-
		LTE 13	1.04	-	-	-
		LTE 14	0.99	-	-	-
		LTE 17	2.92	-	-	-
		LTE 25	1.3	-	-	-
		LTE 26 (814 MHz ~ 824 MHz)	0.5	-	-	-
		LTE 26 (824 MHz ~ 849 MHz)	0.5	-	-	-
		LTE 38	0.59	-	-	-
		LTE 41	1.37	-	-	-
		LTE 42	-	-	-	0.7
		LTE 66	2.3	-	-	-
		LTE 71	2.89	-	-	-

* Detail antenna specification please refer to antenna datasheet and/or antenna measurement report.

3.3 Test Mode Applicability and Tested Channel Detail

The EUT is designed to be positioned on the NB Mode only.

For LTE Band 2

Test Item	Tested Channel	Channel Bandwidth	Modulation	Mode
EIRP	18607 (1850.70 MHz) 18900 (1880.00 MHz) 19193 (1909.30 MHz)	1.4 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
	18615 (1851.50 MHz) 18900 (1880.00 MHz) 19185 (1908.50 MHz)	3 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
	18625 (1852.50 MHz) 18900 (1880.00 MHz) 19175 (1907.50 MHz)	5 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
	18650 (1855.00 MHz) 18900 (1880.00 MHz) 19150 (1905.00 MHz)	10 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
	18675 (1857.50 MHz) 18900 (1880.00 MHz) 19125 (1902.50 MHz)	15 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
	18700 (1860.00 MHz) 18900 (1880.00 MHz) 19100 (1900.00 MHz)	20 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
RE Below 1GHz	18700 (1860.00 MHz)	20 MHz	QPSK	1 RB
RE Above 1GHz	18700 (1860.00 MHz)	20 MHz	QPSK	1 RB

For LTE Band 4

Test Item	Tested Channel	Channel Bandwidth	Modulation	Mode
EIRP	19957 (1710.70 MHz) 20175 (1732.50 MHz) 20393 (1754.30 MHz)	1.4 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
	19965 (1711.50 MHz) 20175 (1732.50 MHz) 20385 (1753.50 MHz)	3 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
	19975 (1712.50 MHz) 20175 (1732.50 MHz) 20375 (1752.50 MHz)	5 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
	20000 (1715.00 MHz) 20175 (1732.50 MHz) 20350 (1750.00 MHz)	10 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
	20025 (1717.50 MHz) 20175 (1732.50 MHz) 20325 (1747.50 MHz)	15 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
	20050 (1720.00 MHz) 20175 (1732.50 MHz) 20300 (1745.00 MHz)	20 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
RE Below 1GHz	20050 (1720.00 MHz)	20 MHz	QPSK	1 RB
RE Above 1GHz	20050 (1720.00 MHz)	20 MHz	QPSK	1 RB

For LTE Band 5

Test Item	Tested Channel	Channel Bandwidth	Modulation	Mode
ERP	20407 (824.70 MHz) 20525 (836.50 MHz) 20643 (848.30 MHz)	1.4 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
	20415 (825.50 MHz) 20525 (836.50 MHz) 20635 (847.50 MHz)	3 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
	20425 (826.50 MHz) 20525 (836.50 MHz) 20625 (846.50 MHz)	5 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
	20450 (829.00 MHz) 20525 (836.50 MHz) 20600 (844.00 MHz)	10 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
RE Below 1GHz	20450 (829.00 MHz)	10 MHz	QPSK	1 RB
RE Above 1GHz	20450 (829.00 MHz)	10 MHz	QPSK	1 RB

For LTE Band 7

Test Item	Tested Channel	Channel Bandwidth	Modulation	Mode
EIRP	20775 (2502.50 MHz) 21100 (2535.00 MHz) 21425 (2567.50 MHz)	5 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
	20800 (2505.00 MHz) 21100 (2535.00 MHz) 21400 (2565.00 MHz)	10 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
	20825 (2507.50 MHz) 21100 (2535.00 MHz) 21375 (2562.50 MHz)	15 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
	20850 (2510.00 MHz) 21100 (2535.00 MHz) 21350 (2560.00 MHz)	20 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
RE Below 1GHz	21100 (2535.00 MHz)	20 MHz	QPSK	1 RB
RE Above 1GHz	21100 (2535.00 MHz)	20 MHz	QPSK	1 RB

For LTE Band 12

Test Item	Tested Channel	Channel Bandwidth	Modulation	Mode
ERP	23017 (699.70 MHz) 23095 (707.50 MHz) 23173 (715.30 MHz)	1.4 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
	23025 (700.50 MHz) 23095 (707.50 MHz) 23165 (714.50 MHz)	3 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
	23035 (701.50 MHz) 23095 (707.50 MHz) 23155 (713.50 MHz)	5 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
	23060 (704.00 MHz) 23095 (707.50 MHz) 23130 (711.00 MHz)	10 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
RE Below 1GHz	23060 (704.00 MHz)	10 MHz	QPSK	1 RB
RE Above 1GHz	23060 (704.00 MHz)	10 MHz	QPSK	1 RB

For LTE Band 13

Test Item	Tested Channel	Channel Bandwidth	Modulation	Mode
ERP	23205 (779.50 MHz) 23230 (782.00 MHz) 23255 (784.50 MHz)	5 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
	23230 (782.00 MHz)	10 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
RE Below 1GHz	23230 (782.00 MHz)	10 MHz	QPSK	1 RB
RE Above 1GHz	23230 (782.00 MHz)	10 MHz	QPSK	1 RB

For LTE Band 14

Test Item	Tested Channel	Channel Bandwidth	Modulation	Mode
ERP	23305 (790.50 MHz) 23330 (793.00 MHz) 23355 (795.50 MHz)	5 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
	23330 (793.00 MHz)	10 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
RE Below 1GHz	23330 (793.00 MHz)	10 MHz	QPSK	1 RB
RE Above 1GHz	23330 (793.00 MHz)	10 MHz	QPSK	1 RB

For LTE Band 17

Test Item	Tested Channel	Channel Bandwidth	Modulation	Mode
ERP	23755 (706.50 MHz) 23790 (710.00 MHz) 23825 (713.50 MHz)	5 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
	23780 (709.00 MHz) 23790 (710.00 MHz) 23800 (711.00 MHz)	10 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
RE Below 1GHz	23790 (710.00 MHz)	10 MHz	QPSK	1 RB
RE Above 1GHz	23790 (710.00 MHz)	10 MHz	QPSK	1 RB

For LTE Band 25

Test Item	Tested Channel	Channel Bandwidth	Modulation	Mode
EIRP	26047 (1850.70 MHz) 26365 (1882.50 MHz) 26683 (1914.30 MHz)	1.4 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
	26055 (1851.50 MHz) 26365 (1882.50 MHz) 26675 (1913.50 MHz)	3 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
	26065 (1852.50 MHz) 26365 (1882.50 MHz) 26665 (1912.50 MHz)	5 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
	26090 (1855.00 MHz) 26365 (1882.50 MHz) 26640 (1910.00 MHz)	10 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
	26115 (1857.50 MHz) 26365 (1882.50 MHz) 26615 (1907.50 MHz)	15 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
	26140 (1860.00 MHz) 26365 (1882.50 MHz) 26590 (1905.00 MHz)	20 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
RE Below 1GHz	26140 (1860.00 MHz)	20 MHz	QPSK	1 RB
RE Above 1GHz	26140 (1860.00 MHz)	20 MHz	QPSK	1 RB

For LTE Band 26 (Part 90)

Test Item	Tested Channel	Channel Bandwidth	Modulation	Mode
ERP	26697 (814.70 MHz) 26740 (819.00 MHz) 26783 (823.30 MHz)	1.4 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
	26705 (815.50 MHz) 26740 (819.00 MHz) 26775 (822.50 MHz)	3 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
	26715 (816.50 MHz) 26740 (819.00 MHz) 26765 (821.50 MHz)	5 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
	26740 (819.00 MHz)	10 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
	26765 (821.50 MHz)	15 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
RE Below 1GHz	26765 (821.50 MHz)	5 MHz	QPSK	1 RB
RE Above 1GHz	26765 (821.50 MHz)	5 MHz	QPSK	1 RB

For LTE Band 26 (Part 22)

Test Item	Tested Channel	Channel Bandwidth	Modulation	Mode
ERP	26797 (824.70 MHz) 26915 (836.50 MHz) 27033 (848.30 MHz)	1.4 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
	26805 (825.50 MHz) 26915 (836.50 MHz) 27025 (847.50 MHz)	3 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
	26815 (826.50 MHz) 26915 (836.50 MHz) 27015 (846.50 MHz)	5 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
	26840 (829.00 MHz) 26915 (836.50 MHz) 26990 (844.00 MHz)	10 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
	26865 (831.50 MHz) 26915 (836.50 MHz) 26965 (841.50 MHz)	15 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
RE Below 1GHz	26865 (831.50 MHz)	15 MHz	QPSK	1 RB
RE Above 1GHz	26865 (831.50 MHz)	15 MHz	QPSK	1 RB

For LTE Band 38

Test Item	Tested Channel	Channel Bandwidth	Modulation	Mode
EIRP	37775 (2572.50 MHz) 38000 (2595.00 MHz) 38225 (2617.50 MHz)	5 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
	37800 (2575.00 MHz) 38000 (2595.00 MHz) 38200 (2615.00 MHz)	10 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
	37825 (2577.50 MHz) 38000 (2595.00 MHz) 38175 (2612.50 MHz)	15 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
	37850 (2580.00 MHz) 38000 (2595.00 MHz) 38150 (2610.00 MHz)	20 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
RE Below 1GHz	38000 (2595.00 MHz)	20 MHz	QPSK	1 RB
RE Above 1GHz	38000 (2595.00 MHz)	20 MHz	QPSK	1 RB

For LTE Band 41

Test Item	Tested Channel	Channel Bandwidth	Modulation	Mode
EIRP	39675 (2498.50 MHz) 40620 (2593.00 MHz) 41565 (2687.50 MHz)	5 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
	39700 (2501.00 MHz) 40620 (2593.00 MHz) 41540 (2685.00 MHz)	10 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
	39725 (2503.50 MHz) 40620 (2593.00 MHz) 41515 (2682.50 MHz)	15 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
	39750 (2506.00 MHz) 40620 (2593.00 MHz) 41490 (2680.00 MHz)	20 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
RE Below 1GHz	41490 (2680.00 MHz)	20 MHz	QPSK	1 RB
RE Above 1GHz	41490 (2680.00 MHz)	20 MHz	QPSK	1 RB

For LTE Band 42

Test Item	Tested Channel	Channel Bandwidth	Modulation	Mode
EIRP	42115 (3452.50 MHz) 42590 (3500.00 MHz) 43065 (3547.50 MHz)	5 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
	42140 (3455.00 MHz) 42590 (3500.00 MHz) 43040 (3545.00 MHz)	10 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
	42165 (3457.50 MHz) 42590 (3500.00 MHz) 43015 (3542.50 MHz)	15 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
	42190 (3460.00 MHz) 42590 (3500.00 MHz) 42990 (3540.00 MHz)	20 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
RE Below 1GHz	42115 (3452.50 MHz)	5 MHz	QPSK	1 RB
RE Above 1GHz	42115 (3452.50 MHz) 42590 (3500.00 MHz) 43065 (3547.50 MHz)	5 MHz	QPSK	1 RB
	42190 (3460.00 MHz) 42590 (3500.00 MHz) 42990 (3540.00 MHz)	20 MHz	QPSK	1 RB

For LTE Band 66

Test Item	Tested Channel	Channel Bandwidth	Modulation	Mode
EIRP	131979 (1710.70 MHz) 132322 (1745.00 MHz) 132665 (1779.30 MHz)	1.4 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
	131987 (1711.50 MHz) 132322 (1745.00 MHz) 132657 (1778.50 MHz)	3 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
	131997 (1712.50 MHz) 132322 (1745.00 MHz) 132647 (1777.50 MHz)	5 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
	132022 (1715.00 MHz) 132322 (1745.00 MHz) 132622 (1775.00 MHz)	10 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
	132047 (1717.50 MHz) 132322 (1745.00 MHz) 132597 (1772.50 MHz)	15 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
	132072 (1720.00 MHz) 132322 (1745.00 MHz) 132572 (1770.00 MHz)	20 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
RE Below 1GHz	132072 (1720.00 MHz)	20 MHz	QPSK	1 RB
RE Above 1GHz	132072 (1720.00 MHz)	20 MHz	QPSK	1 RB

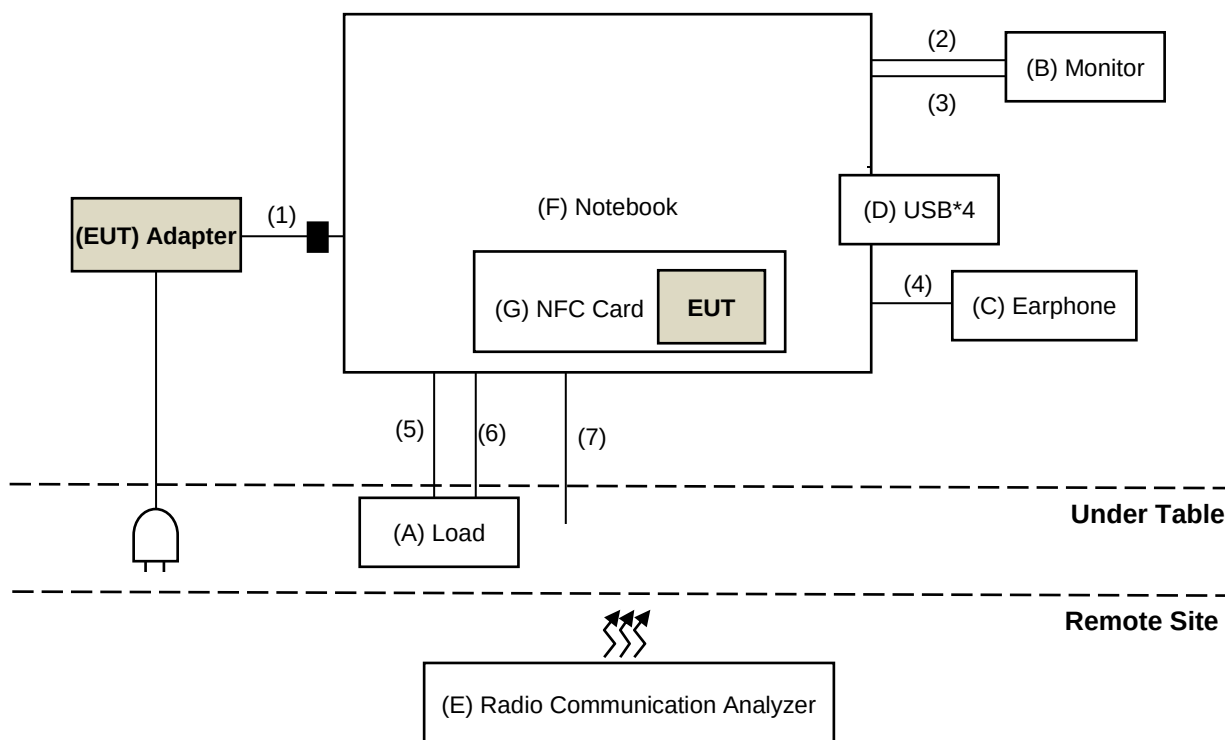
For LTE Band 71

Test Item	Tested Channel	Channel Bandwidth	Modulation	Mode
ERP	133147 (665.50 MHz) 133297 (680.50 MHz) 133447 (695.50 MHz)	5 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
	133172 (668.00 MHz) 133297 (680.50 MHz) 133422 (693.00 MHz)	10 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
	133197 (670.50 MHz) 133297 (680.50 MHz) 133397 (690.50 MHz)	15 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
	133222 (673.00 MHz) 133297 (680.50 MHz) 133372 (688.00 MHz)	20 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
RE Below 1GHz	133222 (673.00 MHz)	20 MHz	QPSK	1 RB
RE Above 1GHz	133222 (673.00 MHz)	20 MHz	QPSK	1 RB

3.4 Test Program Used and Operation Descriptions

There is no need to controlling software during the test, and the EUT can be paired with the Radio Communication Analyzer to test the connection when it is powered on.

3.5 Connection Diagram of EUT and Peripheral Devices



3.6 Configuration of Peripheral Devices and Cable Connections

ID	Product	Brand	Model No.	Serial No.	FCC ID	Remarks
A	Load	N/A	N/A	N/A	N/A	Provided by Lab
B	Monitor	ENVISON	TFT22W90PS1	ECRE4JA000764	N/A	Provided by Lab
C	Earphone	APPLE	MB77PFEB	N/A	N/A	Provided by Lab
D	USB*4	SanDisk	SDDDC3-032G	N/A	N/A	Provided by Lab
E	Radio Communication Analyzer	Anritsu	MT8821C	6201462755	N/A	Provided by Lab
F	Notebook	Getac	S510	N/A	N/A	Supplied by applicant
G	NFC Card	TYPE-B	N/A	N/A	N/A	Provided by Lab

ID	Cable Descriptions	Qty.	Length (m)	Shielding (Yes/No)	Cores (Qty.)	Remarks
1	ADAPTER	1	1.2	Y	1	Accessory of EUT
2	HDMI	1	1.8	Y	0	Provided by Lab
3	D-SUB	1	1.8	Y	2	Provided by Lab
4	AUDIO	1	1.2	N	0	Provided by Lab
5	LAN	1	1.5	N	0	Provided by Lab
6	LAN	1	1.5	N	0	Provided by Lab
7	RS232	1	1.5	N	0	Provided by Lab

4 Test Instruments

The calibration interval of the all test instruments are 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

4.1 Effective Radiated Power and Equivalent Isotropically Radiated Power

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
N9030B - PXA Signal Analyzer KEYSIGHT	N9030B	MY57140488	2024/3/6	2025/3/5
Radio Communication Analyzer Anritsu	MT8821C	6201462755	2024/3/13	2025/3/12
Software BV	ADT_RF Test Software V6.6.5.4	N/A	N/A	N/A

Notes:

1. The test was performed in Oven room.
2. Tested Date: 2024/5/16

4.2 Radiated Spurious Emissions below 1GHz

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Antenna Tower inn-co GmbH	MA 4000	010303	N/A	N/A
Bi_Log Antenna Schwarzbeck	VULB 9168	9168-155	2023/10/13	2024/10/12
EMI Test Receiver R&S	ESR3	102782	2023/12/7	2024/12/6
Loop Antenna Electro-Metrics	EM-6879	269	2023/9/23	2024/9/22
Loop Antenna TESEQ	HLA 6121	45745	2023/8/8	2024/8/7
Preamplifier Agilent	8447D	2944A10631	2023/5/7	2024/5/6
Preamplifier EMCI	EMC001340	980201	2023/9/27	2024/9/26
RF Coaxial Cable Woken	8D-FB	Cable-CH4-01	2023/7/8	2024/7/7
Signal & Spectrum Analyzer R&S	FSW43	101582	2023/4/13	2024/4/12
Software BV ADT	ADT_Radiated_ V7.6.15.9.5	N/A	N/A	N/A
Turn Table BV ADT	TT100	TT93021705	N/A	N/A
Turn Table Controller BV ADT	SC100	SC93021705	N/A	N/A

Notes:

1. The test was performed in HY - 966 chamber 3.
2. Tested Date: 2024/3/9 ~ 2024/3/28

4.3 Radiated Spurious Emissions above 1GHz

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Antenna Tower inn-co GmbH	MA 4000	010303	N/A	N/A
Boresight antenna tower fixture BV	BAF-02	5	N/A	N/A
EMI Test Receiver R&S	ESR3	102782	2023/12/7	2024/12/6
Horn Antenna Schwarzbeck	BBHA 9120D	9120D-408	2023/11/12	2024/11/11
	BBHA 9170	9170-480	2023/11/12	2024/11/11
		BBHA9170241	2023/10/16	2024/10/15
		BBHA9170243	2023/11/12	2024/11/11
Preamplifier EMCI	EMC 184045	980116	2023/9/27	2024/9/26
Preamplifier Keysight	83017A	MY53270295	2023/5/7	2024/5/6
RF Coaxial Cable EMCI	EMC102-KM-KM-600	150928	2023/7/8	2024/7/7
	EMC102-KM-KM-3000	150929	2023/7/8	2024/7/7
RF Coaxial Cable HUBER+SUHNER	SUCOFLEX 104	Cable-CH4-03(250724)	2023/5/7	2024/5/6
	Sucoflex 104	MY 13380+295012/04	2023/5/7	2024/5/6
Signal & Spectrum Analyzer R&S	FSW43	101582	2023/4/13	2024/4/12
Software BV ADT	ADT_Radiated_ V7.6.15.9.5	N/A	N/A	N/A
Turn Table BV ADT	TT100	TT93021705	N/A	N/A
Turn Table Controller BV ADT	SC100	SC93021705	N/A	N/A

Notes:

1. The test was performed in HY - 966 chamber 3.
2. Tested Date: 2024/3/6 ~ 2024/3/28

5 Limits of Test Items

5.1 Effective Radiated Power and Equivalent Isotropically Radiated Power

For LTE Band 2, LTE Band 25:

Mobile and portable stations are limited to 2 watts EIRP.

For LTE Band 4, LTE Band 66:

Fixed, mobile, and portable (hand-held) stations operating in the 1710-1755 MHz band and mobile and portable stations operating in the 1695-1710 MHz and 1755-1780 MHz bands are limited to 1 watt EIRP.

For LTE Band 5, LTE Band 26 (Part 22):

The ERP of mobile transmitters and auxiliary test transmitters must not exceed 7 watts.

For LTE Band 7, LTE Band 38, LTE Band 41:

Mobile stations are limited to 2.0 watts EIRP. All user stations are limited to 2.0 watts transmitter output power.

For LTE Band 12, LTE Band 17, LTE Band 71:

Portable stations (hand-held devices) in the 600 MHz uplink band and the 698-746 MHz band, and fixed and mobile stations in the 600 MHz uplink band are limited to 3 watts ERP.

For LTE Band 13:

Portable stations (hand-held devices) transmitting in the 746-757 MHz, 776-788 MHz, and 805-806 MHz bands are limited to 3 watts ERP.

For LTE Band 14:

Portable stations (hand-held devices) transmitting in the 758-768 MHz band and the 788-798 MHz band are limited to 3 watts ERP.

For LTE Band 26 (Part 90):

The maximum output power of the transmitter for mobile stations is 100 watts (20 dBw) ERP.

For LTE Band 42

Mobile devices are limited to 1Watt (30 dBm) EIRP.

5.2 Radiated Spurious Emissions below 1GHz

For LTE Band 2, LTE Band 5, LTE Band 25, LTE Band 26 (Part 22):

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. The emission limit equal to -13 dBm.

For LTE Band 4:

According to FCC 47 CFR part 27.53(h), for operations in the 1695-1710 MHz, 1710-1755 MHz, 1755-1780 MHz bands, the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log(P)$ dB. The limit of emission is equal to -13 dBm.

For LTE Band 7, LTE Band 38, LTE Band 41:

According to FCC 47 CFR part 27.53(m)(4), on any frequency outside a licensee's frequency block, The power of any emission shall be attenuated below the transmitter power (P) by at least $55 + 10 \log(P)$ dB. The emission limit equal to -25 dBm.

For LTE Band 12, LTE Band 17, LTE Band 71:

According to FCC 47 CFR part 27.53(g), for operations in the 600 MHz band and the 698-746 MHz band, the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, by at least $43 + 10 \log(P)$ dB. The limit of emissions is equal to -13 dBm.

For LTE Band 13:

According to FCC 47 CFR part 27.53(c)(2), for on any frequency outside the 776-788 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least $43 + 10 \log(P)$ dB. The limit of emissions is equal to -13 dBm.

For operations in the 775-788 MHz, emissions in the band 1559-1610 MHz shall be limited to -70 dBW/MHz (EIRP). The limit of emissions is equal to -40 dBm.

For LTE Band 14:

According to FCC 47 CFR part 90.543 (e), for operations in the 758-768 MHz and the 788-798 MHz bands, the power of any emission outside the licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log(P)$ dB.

According to FCC 47 CFR part 90.543 (f), for operations in the 758-775 MHz and 788-805 MHz bands, all emissions including harmonics in the band 1559-1610 MHz shall be limited to -70 dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals, and -80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth.

For LTE Band 26 (Part 90):

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.

For §90.691(a), RBW = 100 kHz for offset greater than 37.5 kHz from channel edge is allowed.

For LTE Band 42

According to FCC 47 CFR part 27.53(n), for operations in the 3450-3550 MHz band, the conducted power of any emission outside the licensee's authorized bandwidth shall not exceed -13 dBm/MHz.

For LTE Band 66:

According to FCC 47 CFR part 27.53(h), for operations in the 1695-1710 MHz, 1710-1755 MHz, 1755-1780 MHz bands, the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log(P)$ dB. The limit of emission is equal to -13 dBm.

5.3 Radiated Spurious Emissions above 1GHz

For LTE Band 2, LTE Band 5, LTE Band 25, LTE Band 26 (Part 22):

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. The emission limit equal to -13 dBm.

For LTE Band 4:

According to FCC 47 CFR part 27.53(h), for operations in the 1695-1710 MHz, 1710-1755 MHz, 1755-1780 MHz bands, the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log(P)$ dB. The limit of emission is equal to -13 dBm.

For LTE Band 7, LTE Band 38, LTE Band 41:

According to FCC 47 CFR part 27.53(m)(4), on any frequency outside a licensee's frequency block, The power of any emission shall be attenuated below the transmitter power (P) by at least $55 + 10 \log(P)$ dB. The emission limit equal to -25 dBm.

For LTE Band 12, LTE Band 17, LTE Band 71:

According to FCC 47 CFR part 27.53(g), for operations in the 600 MHz band and the 698-746 MHz band, the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, by at least $43 + 10 \log(P)$ dB. The limit of emissions is equal to -13 dBm.

For LTE Band 13:

According to FCC 47 CFR part 27.53(c)(2), for on any frequency outside the 776-788 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least $43 + 10 \log(P)$ dB. The limit of emissions is equal to -13 dBm.

For operations in the 775-788 MHz, emissions in the band 1559-1610 MHz shall be limited to -70 dBW/MHz (EIRP). The limit of emissions is equal to -40 dBm.

For LTE Band 14:

According to FCC 47 CFR part 90.543 (e), for operations in the 758-768 MHz and the 788-798 MHz bands, the power of any emission outside the licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log(P)$ dB.

According to FCC 47 CFR part 90.543 (f), for operations in the 758-775 MHz and 788-805 MHz bands, all emissions including harmonics in the band 1559-1610 MHz shall be limited to -70 dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals, and -80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth.

For LTE Band 26 (Part 90):

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.

For §90.691(a), RBW = 100 kHz for offset greater than 37.5 kHz from channel edge is allowed.

For LTE Band 42

According to FCC 47 CFR part 27.53(n), for operations in the 3450-3550 MHz band, the conducted power of any emission outside the licensee's authorized bandwidth shall not exceed -13 dBm/MHz.

For LTE Band 66:

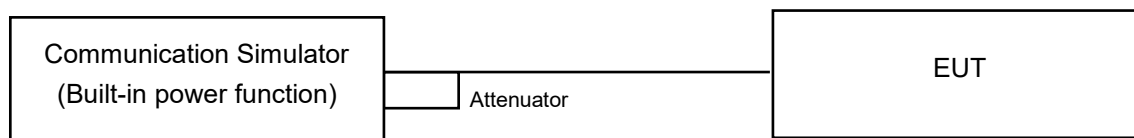
According to FCC 47 CFR part 27.53(h), for operations in the 1695-1710 MHz, 1710-1755 MHz, 1755-1780 MHz bands, the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log(P)$ dB. The limit of emission is equal to -13 dBm.

6 Test Arrangements

6.1 Effective Radiated Power and Equivalent Isotropically Radiated Power

6.1.1 Test Setup

Conducted Power Measurement:



6.1.2 Test Procedure

Conducted Power Measurement:

The EUT is configured by emulator to set data modulation and maximum power using WWAN technology. The power measurement was performed on emulator and power value was measured from power function on emulator. Set the EUT to transmit under low, middle and high channel and record the power level shown on simulator.

Maximum EIRP / ERP

The relevant equation for determining the maximum ERP or EIRP from the measured RF output power is given in Equation as follows:

$$\text{EIRP} = P_{\text{Meas}} + G_T$$

$$\text{ERP} = P_{\text{Meas}} + G_T - 2.15$$

where

ERP or EIRP effective radiated power or equivalent isotropically radiated power, respectively

(expressed in the same units as P_{Meas} , e.g., dBm or dBW)

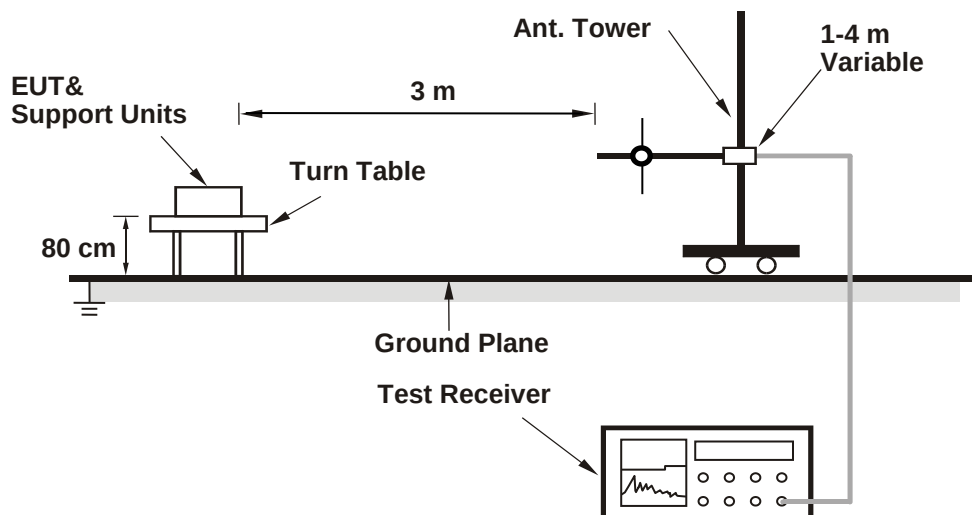
P_{Meas} measured transmitter output power or PSD, in dBm or dBW

G_T gain of the transmitting antenna, in dBd (ERP) or dBi (EIRP)

6.2 Radiated Spurious Emissions below 1GHz

6.2.1 Test Setup

For radiated emission 30 MHz to 1 GHz



For the actual test configuration, please refer to the attached file (Test Setup Photo).

6.2.2 Test Procedure

The EUT is configured by test software or key-in commands to set data modulation and maximum power using WWAN technology.

- In the semi-anechoic chamber, EUT placed on the 0.8 m (below or equal 1 GHz) height of turn table, rotated the table around 360 degrees to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1 m to 4 m to find the maximum polar radiated power. The "Read Value" is the spectrum reading the maximum power value.
- The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- Perform a field strength measurement and record the worse read value, is the field strength value via a spectrum reading obtained corrected for antenna factor, cable loss and pre-amplifier factor and then mathematically convert the measured field strength level to EIRP/ERP level.
- Following ANSI C63.26 section 5.5 and 5.2.7
- $EIRP (dBm) = E (dB\mu V/m) + 20\log(D) - 104.8$; where D is the measurement distance (in the far field region) in m.
- $ERP (dBm) = E (dB\mu V/m) + 20\log(D) - 104.8 - 2.15$; where D is the measurement distance (in the far field region) in m.

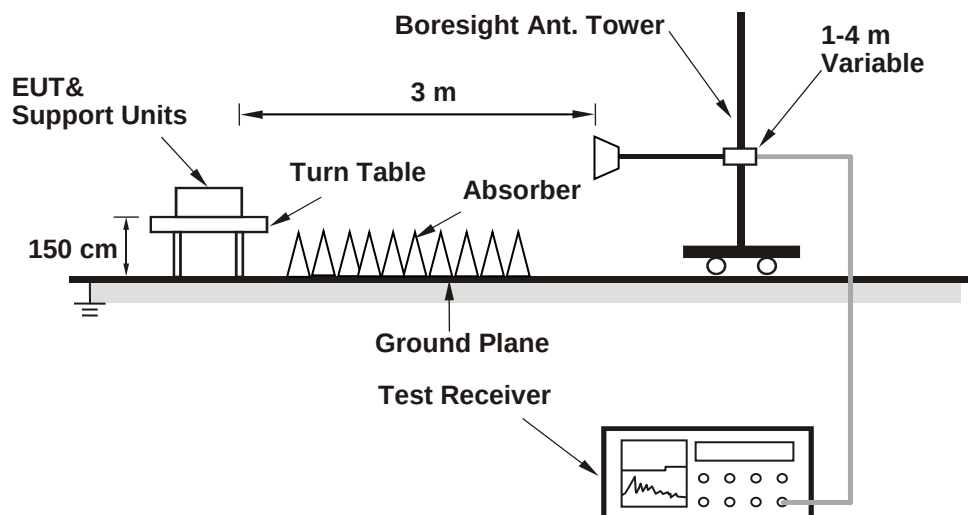
Note:

- The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1 MHz/3 MHz. Set detector = average.

6.3 Radiated Spurious Emissions above 1GHz

6.3.1 Test Setup

For radiated emission above 1 GHz



For the actual test configuration, please refer to the attached file (Test Setup Photo).

6.3.2 Test Procedure

The EUT is configured by test software or key-in commands to set data modulation and maximum power using WWAN technology.

- In the semi-anechoic chamber, EUT placed on the 1.5 m height of turn table, rotated the table around 360 degrees to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1 m to 4 m to find the maximum polar radiated power. The "Read Value" is the spectrum reading the maximum power value.
- The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- Perform a field strength measurement and record the worse read value, is the field strength value via a spectrum reading obtained corrected for antenna factor, cable loss and pre-amplifier factor and then mathematically convert the measured field strength level to EIRP/ERP level.
- Following ANSI C63.26 section 5.5 and 5.2.7
- $EIRP (dBm) = E (dB\mu V/m) + 20\log(D) - 104.8$; where D is the measurement distance (in the far field region) in m.
- $ERP (dBm) = E (dB\mu V/m) + 20\log(D) - 104.8 - 2.15$; where D is the measurement distance (in the far field region) in m.

Note:

- The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1 MHz/3 MHz. Set detector = average.

7 Test Results of Test Item

7.1 Effective Radiated Power and Equivalent Isotropically Radiated Power

Input Power:	120 Vac, 60 Hz	Environmental Conditions:	22°C, 65% RH	Tested By:	Willy Cheng
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7.1.1 LTE Band 2

Conducted Output Power (dBm)

LTE Band 2						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		18700	18900	19100
		Frequency (MHz)		1860	1880	1900
20M	QPSK	1	0	22.53	22.41	22.37
		1	50	22.46	22.38	22.34
		1	99	22.45	22.37	22.32
		50	0	21.66	21.58	21.57
		50	25	21.54	21.46	21.45
		50	50	21.50	21.42	21.41
		100	0	21.61	21.53	21.52
20M	16QAM	1	0	21.88	21.80	21.79
		1	50	21.57	21.49	21.54
		1	99	21.63	21.55	21.48
		50	0	20.63	20.55	20.54
		50	25	20.62	20.54	20.53
		50	50	20.51	20.43	20.46
		100	0	20.63	20.55	20.54
20M	64QAM	1	0	21.31	21.23	21.22
		1	50	21.06	20.98	20.97
		1	99	20.95	20.87	20.86
		50	0	20.18	20.10	20.09
		50	25	19.97	19.89	19.88
		50	50	19.86	19.78	19.77
		100	0	19.99	19.91	19.90
20M	256QAM	1	0	18.22	18.15	18.10
		1	50	18.07	18.00	17.93
		1	99	18.01	17.92	17.92
		50	0	18.06	18.04	17.97
		50	25	17.94	17.87	17.79
		50	50	17.86	17.83	17.77
		100	0	17.94	17.85	17.81

EIRP Power (dBm)

Maximum Output Power			
Modulation	Cond. Power (dBm)	EIRP (dBm)	EIRP Limit (dBm)
QPSK	22.53	23.83	33.01
16QAM	21.88	23.18	33.01
64QAM	21.31	22.61	33.01
256QAM	18.22	19.52	33.01

Note: EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

Conducted Output Power (dBm)

LTE Band 2						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		18675	18900	19125
		Frequency (MHz)		1857.5	1880	1902.5
15M	QPSK	1	0	22.45	22.29	22.22
		1	37	22.35	22.23	22.21
		1	74	22.30	22.27	22.24
		36	0	21.65	21.47	21.41
		36	19	21.43	21.27	21.31
		36	39	21.36	21.32	21.29
		75	0	21.50	21.42	21.50
15M	16QAM	1	0	21.71	21.68	21.65
		1	37	21.53	21.47	21.39
		1	74	21.53	21.40	21.48
		36	0	20.44	20.51	20.43
		36	19	20.41	20.41	20.37
		36	39	20.54	20.48	20.51
		75	0	20.60	20.40	20.47
15M	64QAM	1	0	21.25	21.16	21.13
		1	37	20.87	20.89	20.82
		1	74	20.81	20.82	20.83
		36	0	20.11	20.07	20.06
		36	19	19.89	19.80	19.79
		36	39	19.66	19.71	19.71
		75	0	19.92	19.76	19.76
15M	256QAM	1	0	18.13	18.03	18.09
		1	37	17.90	17.86	17.87
		1	74	17.95	17.75	17.76
		36	0	17.85	17.90	17.77
		36	19	17.70	17.78	17.60
		36	39	17.77	17.76	17.66
		75	0	17.76	17.69	17.65

EIRP Power (dBm)

Maximum Output Power			
Modulation	Cond. Power (dBm)	EIRP (dBm)	EIRP Limit (dBm)
QPSK	22.45	23.75	33.01
16QAM	21.71	23.01	33.01
64QAM	21.25	22.55	33.01
256QAM	18.13	19.43	33.01

Note: EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

Conducted Output Power (dBm)

LTE Band 2						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		18650	18900	19150
		Frequency (MHz)		1855	1880	1905
10M	QPSK	1	0	22.47	22.32	22.23
		1	24	22.38	22.30	22.24
		1	49	22.31	22.27	22.20
		25	0	21.62	21.49	21.47
		25	12	21.45	21.30	21.36
		25	25	21.42	21.30	21.26
		50	0	21.50	21.42	21.41
10M	16QAM	1	0	21.79	21.70	21.71
		1	24	21.51	21.37	21.39
		1	49	21.56	21.40	21.47
		25	0	20.53	20.45	20.39
		25	12	20.49	20.36	20.41
		25	25	20.51	20.42	20.47
		50	0	20.56	20.42	20.45
10M	64QAM	1	0	21.27	21.13	21.22
		1	24	20.86	20.82	20.83
		1	49	20.83	20.75	20.75
		25	0	20.10	20.02	20.01
		25	12	19.86	19.79	19.77
		25	25	19.74	19.70	19.72
		50	0	19.94	19.77	19.80
10M	256QAM	1	0	18.07	17.99	18.00
		1	24	17.99	17.89	17.76
		1	49	17.89	17.86	17.84
		25	0	17.93	17.96	17.74
		25	12	17.82	17.81	17.61
		25	25	17.73	17.77	17.66
		50	0	17.83	17.71	17.67

EIRP Power (dBm)

Maximum Output Power			
Modulation	Cond. Power (dBm)	EIRP (dBm)	EIRP Limit (dBm)
QPSK	22.47	23.77	33.01
16QAM	21.79	23.09	33.01
64QAM	21.27	22.57	33.01
256QAM	18.07	19.37	33.01

Note: EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

Conducted Output Power (dBm)

LTE Band 2						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		18625	18900	19175
		Frequency (MHz)		1852.5	1880	1907.5
5M	QPSK	1	0	22.46	22.23	22.20
		1	12	22.38	22.25	22.20
		1	24	22.29	22.33	22.20
		12	0	21.63	21.42	21.49
		12	6	21.42	21.33	21.34
		12	13	21.33	21.28	21.21
		25	0	21.51	21.42	21.47
5M	16QAM	1	0	21.76	21.63	21.68
		1	12	21.54	21.39	21.45
		1	24	21.51	21.43	21.50
		12	0	20.48	20.48	20.38
		12	6	20.49	20.34	20.43
		12	13	20.58	20.41	20.42
		25	0	20.60	20.45	20.50
5M	64QAM	1	0	21.20	21.14	21.22
		1	12	20.92	20.82	20.83
		1	24	20.85	20.75	20.80
		12	0	20.10	19.98	20.00
		12	6	19.89	19.86	19.79
		12	13	19.76	19.75	19.72
		25	0	19.85	19.75	19.72
5M	256QAM	1	0	18.16	18.03	18.08
		1	12	18.01	17.89	17.82
		1	24	17.87	17.79	17.83
		12	0	17.85	17.93	17.90
		12	6	17.80	17.72	17.61
		12	13	17.83	17.74	17.53
		25	0	17.81	17.73	17.74

EIRP Power (dBm)

Maximum Output Power			
Modulation	Cond. Power (dBm)	EIRP (dBm)	EIRP Limit (dBm)
QPSK	22.46	23.76	33.01
16QAM	21.76	23.06	33.01
64QAM	21.22	22.52	33.01
256QAM	18.16	19.46	33.01

Note: EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

Conducted Output Power (dBm)

LTE Band 2						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		18615	18900	19185
		Frequency (MHz)		1851.5	1880	1908.5
3M	QPSK	1	0	22.45	22.28	22.20
		1	7	22.40	22.32	22.28
		1	14	22.29	22.28	22.18
		8	0	21.60	21.49	21.39
		8	3	21.42	21.28	21.34
		8	7	21.37	21.29	21.29
		15	0	21.52	21.42	21.41
3M	16QAM	1	0	21.74	21.71	21.63
		1	7	21.50	21.40	21.43
		1	14	21.59	21.43	21.43
		8	0	20.46	20.45	20.44
		8	3	20.43	20.41	20.37
		8	7	20.61	20.41	20.47
		15	0	20.58	20.45	20.44
3M	64QAM	1	0	21.21	21.15	21.14
		1	7	20.93	20.89	20.82
		1	14	20.80	20.72	20.75
		8	0	20.08	20.03	20.02
		8	3	19.88	19.82	19.71
		8	7	19.74	19.69	19.68
		15	0	19.86	19.82	19.81
3M	256QAM	1	0	18.14	18.12	18.02
		1	7	17.92	17.89	17.84
		1	14	17.82	17.86	17.73
		8	0	17.89	17.91	17.85
		8	3	17.84	17.69	17.79
		8	7	17.73	17.61	17.70
		15	0	17.81	17.76	17.73

EIRP Power (dBm)

Maximum Output Power			
Modulation	Cond. Power (dBm)	EIRP (dBm)	EIRP Limit (dBm)
QPSK	22.45	23.75	33.01
16QAM	21.74	23.04	33.01
64QAM	21.21	22.51	33.01
256QAM	18.14	19.44	33.01

Note: EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

Conducted Output Power (dBm)

LTE Band 2						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		18607	18900	19193
		Frequency (MHz)		1850.7	1880	1909.3
1.4M	QPSK	1	0	22.43	22.29	22.12
		1	2	22.20	22.20	22.13
		1	5	22.14	22.32	22.08
		3	0	22.45	22.29	22.37
		3	1	22.28	22.36	22.30
		3	3	22.28	22.15	22.11
		6	0	21.47	21.39	21.38
1.4M	16QAM	1	0	21.63	21.62	21.67
		1	2	21.45	21.35	21.41
		1	5	21.51	21.32	21.39
		3	0	21.50	21.47	21.29
		3	1	21.40	21.27	21.37
		3	3	21.48	21.31	21.41
		6	0	20.44	20.36	20.43
1.4M	64QAM	1	0	21.17	21.19	21.08
		1	2	20.76	20.78	20.79
		1	5	20.69	20.62	20.74
		3	0	21.11	21.04	20.92
		3	1	20.84	20.75	20.67
		3	3	20.64	20.69	20.54
		6	0	19.87	19.63	19.68
1.4M	256QAM	1	0	18.03	18.14	17.90
		1	2	17.99	17.91	17.75
		1	5	17.85	17.69	17.84
		3	0	17.95	17.92	17.88
		3	1	17.80	17.74	17.61
		3	3	17.80	17.66	17.65
		6	0	17.78	17.66	17.60

EIRP Power (dBm)

Maximum Output Power			
Modulation	Cond. Power (dBm)	EIRP (dBm)	EIRP Limit (dBm)
QPSK	22.45	23.75	33.01
16QAM	21.67	22.97	33.01
64QAM	21.19	22.49	33.01
256QAM	18.14	19.44	33.01

Note: EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

7.1.2 LTE Band 4

Conducted Output Power (dBm)

LTE Band 4						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		20050	20175	20300
		Frequency (MHz)		1720	1732.5	1745
20M	QPSK	1	0	22.66	22.50	22.36
		1	50	22.45	22.36	22.34
		1	99	22.38	22.30	22.24
		50	0	21.58	21.48	21.51
		50	25	21.51	21.46	21.43
		50	50	21.49	21.35	21.33
		100	0	21.50	21.41	21.39
20M	16QAM	1	0	21.73	21.68	21.60
		1	50	21.66	21.64	21.58
		1	99	21.64	21.62	21.56
		50	0	20.63	20.61	20.53
		50	25	20.47	20.47	20.39
		50	50	20.50	20.45	20.38
		100	0	20.45	20.38	20.29
20M	64QAM	1	0	20.81	20.76	20.71
		1	50	20.77	20.71	20.61
		1	99	20.57	20.54	20.54
		50	0	19.58	19.52	19.44
		50	25	19.51	19.48	19.42
		50	50	19.49	19.43	19.36
		100	0	19.53	19.53	19.44
20M	256QAM	1	0	17.86	17.76	17.75
		1	50	17.63	17.60	17.61
		1	99	17.52	17.50	17.59
		50	0	17.71	17.62	17.51
		50	25	17.51	17.43	17.42
		50	50	17.47	17.38	17.38
		100	0	17.64	17.60	17.50

EIRP Power (dBm)

Maximum Output Power			
Modulation	Cond. Power (dBm)	Max. EIRP (dBm)	EIRP Limit (dBm)
QPSK	22.66	24.96	30
16QAM	21.73	24.03	30
64QAM	20.81	23.11	30
256QAM	17.86	20.16	30

Note: EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

Conducted Output Power (dBm)

LTE Band 4						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		20025	20175	20325
		Frequency (MHz)		1717.5	1732.5	1747.5
15M	QPSK	1	0	22.56	22.41	22.28
		1	37	22.36	22.29	22.24
		1	74	22.28	22.23	22.14
		36	0	21.55	21.57	21.48
		36	19	21.44	21.47	21.43
		36	39	21.45	21.33	21.29
		75	0	21.46	21.37	21.32
15M	16QAM	1	0	21.64	21.66	21.53
		1	37	21.63	21.55	21.52
		1	74	21.57	21.61	21.56
		36	0	20.61	20.53	20.46
		36	19	20.47	20.41	20.36
		36	39	20.49	20.44	20.29
		75	0	20.36	20.35	20.24
15M	64QAM	1	0	20.79	20.71	20.70
		1	37	20.70	20.68	20.60
		1	74	20.50	20.50	20.45
		36	0	19.56	19.52	19.41
		36	19	19.41	19.40	19.36
		36	39	19.46	19.42	19.31
		75	0	19.48	19.46	19.37
15M	256QAM	1	0	17.83	17.72	17.60
		1	37	17.55	17.52	17.41
		1	74	17.35	17.42	17.53
		36	0	17.68	17.49	17.48
		36	19	17.39	17.29	17.30
		36	39	17.33	17.14	17.25
		75	0	17.48	17.49	17.31

EIRP Power (dBm)

Maximum Output Power			
Modulation	Cond. Power (dBm)	Max. EIRP (dBm)	EIRP Limit (dBm)
QPSK	22.56	24.86	30
16QAM	21.66	23.96	30
64QAM	20.79	23.09	30
256QAM	17.83	20.13	30

Note: EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

Conducted Output Power (dBm)

LTE Band 4						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		20000	20175	20350
		Frequency (MHz)		1715	1732.5	1750
10M	QPSK	1	0	22.58	22.44	22.29
		1	24	22.41	22.30	22.24
		1	49	22.38	22.28	22.18
		25	0	21.48	21.56	21.41
		25	12	21.43	21.43	21.35
		25	25	21.48	21.38	21.23
		50	0	21.40	21.37	21.32
10M	16QAM	1	0	21.63	21.62	21.51
		1	24	21.66	21.59	21.55
		1	49	21.56	21.54	21.52
		25	0	20.54	20.59	20.48
		25	12	20.45	20.46	20.35
		25	25	20.43	20.40	20.36
		50	0	20.38	20.30	20.26
10M	64QAM	1	0	20.75	20.73	20.67
		1	24	20.72	20.71	20.60
		1	49	20.57	20.49	20.52
		25	0	19.50	19.43	19.41
		25	12	19.41	19.44	19.43
		25	25	19.42	19.40	19.36
		50	0	19.45	19.44	19.37
10M	256QAM	1	0	17.70	17.63	17.54
		1	24	17.44	17.48	17.41
		1	49	17.41	17.28	17.42
		25	0	17.65	17.43	17.41
		25	12	17.45	17.35	17.39
		25	25	17.25	17.20	17.25
		50	0	17.55	17.46	17.40

EIRP Power (dBm)

Maximum Output Power			
Modulation	Cond. Power (dBm)	Max. EIRP (dBm)	EIRP Limit (dBm)
QPSK	22.58	24.88	30
16QAM	21.66	23.96	30
64QAM	20.75	23.05	30
256QAM	17.70	20.00	30

Note: EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

Conducted Output Power (dBm)

LTE Band 4						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		19975	20175	20375
		Frequency (MHz)		1712.5	1732.5	1752.5
5M	QPSK	1	0	22.57	22.48	22.33
		1	12	22.44	22.33	22.27
		1	24	22.36	22.29	22.15
		12	0	21.52	21.54	21.50
		12	6	21.43	21.41	21.34
		12	13	21.49	21.35	21.32
		25	0	21.44	21.37	21.31
5M	16QAM	1	0	21.65	21.58	21.59
		1	12	21.64	21.62	21.49
		1	24	21.54	21.57	21.50
		12	0	20.56	20.51	20.43
		12	6	20.37	20.44	20.33
		12	13	20.43	20.39	20.34
		25	0	20.44	20.37	20.25
5M	64QAM	1	0	20.73	20.68	20.62
		1	12	20.71	20.65	20.61
		1	24	20.52	20.44	20.53
		12	0	19.48	19.51	19.34
		12	6	19.50	19.47	19.39
		12	13	19.44	19.39	19.27
		25	0	19.51	19.53	19.36
5M	256QAM	1	0	17.71	17.60	17.66
		1	12	17.50	17.41	17.47
		1	24	17.31	17.34	17.57
		12	0	17.52	17.48	17.33
		12	6	17.30	17.27	17.33
		12	13	17.37	17.29	17.27
		25	0	17.46	17.50	17.39

EIRP Power (dBm)

Maximum Output Power			
Modulation	Cond. Power (dBm)	Max. EIRP (dBm)	EIRP Limit (dBm)
QPSK	22.57	24.87	30
16QAM	21.65	23.95	30
64QAM	20.73	23.03	30
256QAM	17.71	20.01	30

Note: EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

Conducted Output Power (dBm)

LTE Band 4						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		19965	20175	20385
		Frequency (MHz)		1711.5	1732.5	1753.5
3M	QPSK	1	0	22.47	22.47	22.30
		1	7	22.28	22.23	22.11
		1	14	22.14	22.09	22.12
		8	0	21.50	21.47	21.45
		8	3	21.50	21.28	21.39
		8	7	21.28	21.24	21.17
		15	0	21.43	21.23	21.24
3M	16QAM	1	0	21.59	21.47	21.52
		1	7	21.60	21.49	21.49
		1	14	21.46	21.47	21.47
		8	0	20.53	20.47	20.39
		8	3	20.37	20.22	20.15
		8	7	20.33	20.34	20.34
		15	0	20.30	20.27	20.05
3M	64QAM	1	0	20.64	20.52	20.62
		1	7	20.71	20.60	20.50
		1	14	20.40	20.43	20.47
		8	0	19.43	19.37	19.27
		8	3	19.39	19.39	19.34
		8	7	19.26	19.27	19.31
		15	0	19.42	19.34	19.21
3M	256QAM	1	0	17.78	17.55	17.59
		1	7	17.41	17.40	17.54
		1	14	17.36	17.36	17.46
		8	0	17.58	17.53	17.50
		8	3	17.44	17.35	17.27
		8	7	17.34	17.35	17.31
		15	0	17.55	17.51	17.37

EIRP Power (dBm)

Maximum Output Power			
Modulation	Cond. Power (dBm)	Max. EIRP (dBm)	EIRP Limit (dBm)
QPSK	22.47	24.77	30
16QAM	21.60	23.90	30
64QAM	20.71	23.01	30
256QAM	17.78	20.08	30

Note: EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

Conducted Output Power (dBm)

LTE Band 4						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		19957	20175	20393
		Frequency (MHz)		1710.7	1732.5	1754.3
1.4M	QPSK	1	0	22.61	22.33	22.18
		1	2	22.33	22.28	22.21
		1	5	22.33	22.12	22.01
		3	0	22.45	22.48	22.34
		3	1	22.47	22.31	22.43
		3	3	22.48	22.30	22.20
		6	0	21.35	21.23	21.22
1.4M	16QAM	1	0	21.69	21.56	21.55
		1	2	21.47	21.40	21.43
		1	5	21.59	21.55	21.36
		3	0	21.48	21.45	21.45
		3	1	21.30	21.32	21.32
		3	3	21.31	21.44	21.28
		6	0	20.38	20.21	20.16
1.4M	64QAM	1	0	20.81	20.67	20.55
		1	2	20.71	20.52	20.56
		1	5	20.35	20.41	20.42
		3	0	20.56	20.42	20.35
		3	1	20.37	20.32	20.33
		3	3	20.25	20.24	20.20
		6	0	19.38	19.45	19.32
1.4M	256QAM	1	0	17.75	17.62	17.67
		1	2	17.48	17.55	17.53
		1	5	17.47	17.38	17.46
		3	0	17.55	17.50	17.31
		3	1	17.31	17.33	17.34
		3	3	17.31	17.30	17.36
		6	0	17.49	17.51	17.42

EIRP Power (dBm)

Maximum Output Power			
Modulation	Cond. Power (dBm)	Max. EIRP (dBm)	EIRP Limit (dBm)
QPSK	22.61	24.91	30
16QAM	21.69	23.99	30
64QAM	20.81	23.11	30
256QAM	17.75	20.05	30

Note: EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

7.1.3 LTE Band 5

Conducted Output Power (dBm)

LTE Band 5						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		20450	20525	20600
		Frequency (MHz)		829	836.5	844
10M	QPSK	1	0	22.91	22.86	22.81
		1	24	22.85	22.75	22.68
		1	49	22.73	22.69	22.62
		25	0	21.99	21.93	21.85
		25	12	21.91	21.81	21.74
		25	25	21.89	21.80	21.72
		50	0	21.94	21.93	21.84
10M	16QAM	1	0	22.15	22.14	22.09
		1	24	22.01	21.97	21.93
		1	49	21.99	21.96	21.91
		25	0	20.93	20.88	20.88
		25	12	20.88	20.85	20.75
		25	25	20.84	20.79	20.73
		50	0	20.91	20.89	20.81
10M	64QAM	1	0	21.33	21.29	21.26
		1	24	21.13	21.10	21.05
		1	49	21.04	21.04	21.03
		25	0	19.94	19.88	19.87
		25	12	19.89	19.86	19.78
		25	25	19.86	19.79	19.77
		50	0	19.97	19.92	19.87
10M	256QAM	1	0	18.06	18.04	17.96
		1	24	17.93	17.85	17.84
		1	49	17.89	17.83	17.76
		25	0	17.94	17.92	17.89
		25	12	17.92	17.90	17.83
		25	25	17.88	17.78	17.71
		50	0	18.01	18.01	17.95

ERP Power (dBm)

Maximum Output Power			
Modulation	Cond. Power (dBm)	ERP (dBm)	ERP Limit (dBm)
QPSK	22.91	21.26	38.5
16QAM	22.15	20.5	38.5
64QAM	21.33	19.68	38.5
256QAM	18.06	16.41	38.5

Note:

EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

ERP (dBm) = EIRP (dBm) - 2.15

Conducted Output Power (dBm)

LTE Band 5						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		20425	20525	20625
		Frequency (MHz)		826.5	836.5	846.5
5M	QPSK	1	0	22.73	22.76	22.67
		1	12	22.72	22.53	22.62
		1	24	22.59	22.64	22.48
		12	0	21.89	21.76	21.64
		12	6	21.91	21.75	21.65
		12	13	21.72	21.70	21.67
		25	0	21.86	21.86	21.67
5M	16QAM	1	0	21.98	21.96	21.94
		1	12	21.89	21.78	21.85
		1	24	21.88	21.85	21.88
		12	0	20.89	20.70	20.77
		12	6	20.84	20.63	20.67
		12	13	20.79	20.63	20.75
		25	0	20.85	20.76	20.81
5M	64QAM	1	0	21.18	21.15	21.26
		1	12	21.02	21.01	21.05
		1	24	20.95	21.00	20.86
		12	0	19.81	19.74	19.72
		12	6	19.73	19.86	19.65
		12	13	19.79	19.62	19.54
		25	0	19.78	19.79	19.78
5M	256QAM	1	0	17.97	17.91	17.80
		1	12	17.68	17.70	17.65
		1	24	17.83	17.76	17.64
		12	0	17.71	17.80	17.74
		12	6	17.72	17.89	17.66
		12	13	17.74	17.69	17.60
		25	0	17.93	17.80	17.74

ERP Power (dBm)

Maximum Output Power			
Modulation	Cond. Power (dBm)	ERP (dBm)	ERP Limit (dBm)
QPSK	22.76	21.11	38.5
16QAM	21.98	20.33	38.5
64QAM	21.26	19.61	38.5
256QAM	17.97	16.32	38.5

Note:

EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

ERP (dBm) = EIRP (dBm) - 2.15

Conducted Output Power (dBm)

LTE Band 5						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		20415	20525	20635
		Frequency (MHz)		825.5	836.5	847.5
3M	QPSK	1	0	22.74	22.68	22.70
		1	7	22.68	22.55	22.51
		1	14	22.65	22.55	22.50
		8	0	21.93	21.75	21.72
		8	3	21.72	21.73	21.60
		8	7	21.75	21.71	21.55
		15	0	21.82	21.81	21.64
3M	16QAM	1	0	22.12	22.05	21.90
		1	7	21.91	21.87	21.88
		1	14	21.93	21.86	21.84
		8	0	20.71	20.73	20.70
		8	3	20.74	20.82	20.64
		8	7	20.74	20.70	20.70
		15	0	20.73	20.80	20.72
3M	64QAM	1	0	21.23	21.19	21.19
		1	7	20.97	20.99	20.89
		1	14	20.99	20.88	20.92
		8	0	19.91	19.67	19.70
		8	3	19.81	19.83	19.73
		8	7	19.67	19.63	19.69
		15	0	19.85	19.75	19.85
3M	256QAM	1	0	17.87	17.98	17.85
		1	7	17.89	17.66	17.73
		1	14	17.83	17.67	17.64
		8	0	17.75	17.80	17.76
		8	3	17.77	17.83	17.77
		8	7	17.76	17.61	17.54
		15	0	17.90	17.84	17.81

ERP Power (dBm)

Maximum Output Power			
Modulation	Cond. Power (dBm)	ERP (dBm)	ERP Limit (dBm)
QPSK	22.74	21.09	38.5
16QAM	22.12	20.47	38.5
64QAM	21.23	19.58	38.5
256QAM	17.98	16.33	38.5

Note:

EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

ERP (dBm) = EIRP (dBm) - 2.15

Conducted Output Power (dBm)

LTE Band 5						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		20407	20525	20643
		Frequency (MHz)		824.7	836.5	848.3
1.4M	QPSK	1	0	22.86	22.68	22.70
		1	2	22.69	22.58	22.57
		1	5	22.52	22.67	22.52
		3	0	22.84	22.90	22.75
		3	1	22.85	22.76	22.54
		3	3	22.82	22.65	22.63
		6	0	21.75	21.72	21.78
1.4M	16QAM	1	0	22.00	22.03	22.04
		1	2	21.91	21.79	21.79
		1	5	21.83	21.80	21.98
		3	0	21.69	21.80	21.69
		3	1	21.82	21.66	21.59
		3	3	21.71	21.59	21.57
		6	0	20.76	20.68	20.81
1.4M	64QAM	1	0	21.24	21.11	21.18
		1	2	21.00	21.01	21.05
		1	5	20.85	20.86	20.95
		3	0	20.91	20.74	20.69
		3	1	20.84	20.69	20.85
		3	3	20.65	20.75	20.60
		6	0	19.76	19.78	19.65
1.4M	256QAM	1	0	17.94	17.91	17.83
		1	2	17.74	17.73	17.61
		1	5	17.75	17.74	17.62
		3	0	17.84	17.68	17.76
		3	1	17.85	17.69	17.62
		3	3	17.78	17.66	17.52
		6	0	17.94	17.87	17.86

ERP Power (dBm)

Maximum Output Power			
Modulation	Cond. Power (dBm)	ERP (dBm)	ERP Limit (dBm)
QPSK	22.90	21.25	38.5
16QAM	22.04	20.39	38.5
64QAM	21.24	19.59	38.5
256QAM	17.94	16.29	38.5

Note:

EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

ERP (dBm) = EIRP (dBm) - 2.15

7.1.4 LTE Band 7

Conducted Output Power (dBm)

LTE Band 7						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		20850	21100	21350
		Frequency (MHz)		2510	2535	2560
20M	QPSK	1	0	22.71	22.81	22.64
		1	50	22.69	22.77	22.66
		1	99	22.62	22.71	22.56
		50	0	21.82	21.85	21.75
		50	25	21.79	21.81	21.65
		50	50	21.74	21.84	21.74
		100	0	21.86	21.88	21.77
20M	16QAM	1	0	22.21	22.23	22.20
		1	50	21.98	22.03	21.88
		1	99	21.95	21.96	21.86
		50	0	20.90	20.91	20.87
		50	25	20.76	20.89	20.75
		50	50	20.74	20.86	20.71
		100	0	20.80	20.85	20.73
20M	64QAM	1	0	20.88	20.96	20.82
		1	50	20.83	20.92	20.78
		1	99	20.75	20.76	20.72
		50	0	19.86	19.89	19.79
		50	25	19.82	19.83	19.74
		50	50	19.74	19.79	19.72
		100	0	19.84	19.88	19.74
20M	256QAM	1	0	18.37	18.39	18.36
		1	50	18.23	18.26	18.25
		1	99	18.11	18.19	18.16
		50	0	18.10	18.16	18.12
		50	25	18.07	18.11	18.10
		50	50	17.89	18.03	17.93
		100	0	18.34	18.41	18.39

EIRP Power (dBm)

Maximum Output Power			
Modulation	Cond. Power (dBm)	EIRP (dBm)	EIRP Limit (dBm)
QPSK	22.81	24.18	33.01
16QAM	22.23	23.60	33.01
64QAM	20.96	22.33	33.01
256QAM	18.41	19.78	33.01

Note: EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

Conducted Output Power (dBm)

LTE Band 7						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		20825	21100	21375
		Frequency (MHz)		2507.5	2535	2562.5
15M	QPSK	1	0	22.58	22.64	22.52
		1	37	22.62	22.64	22.65
		1	74	22.58	22.50	22.43
		36	0	21.78	21.70	21.62
		36	19	21.66	21.70	21.50
		36	39	21.65	21.77	21.64
		75	0	21.62	21.71	21.65
15M	16QAM	1	0	22.04	22.04	22.10
		1	37	21.91	21.91	21.73
		1	74	21.74	21.90	21.68
		36	0	20.88	20.89	20.76
		36	19	20.69	20.72	20.59
		36	39	20.80	20.70	20.65
		75	0	20.72	20.68	20.55
15M	64QAM	1	0	20.83	20.81	20.67
		1	37	20.67	20.86	20.67
		1	74	20.55	20.67	20.61
		36	0	19.69	19.75	19.65
		36	19	19.52	19.64	19.57
		36	39	19.66	19.74	19.54
		75	0	19.69	19.85	19.58
15M	256QAM	1	0	18.46	18.46	18.27
		1	37	18.25	18.20	18.13
		1	74	18.34	18.20	18.14
		36	0	18.26	18.28	18.22
		36	19	18.27	18.34	18.15
		36	39	18.23	18.20	18.05
		75	0	18.41	18.36	18.35

EIRP Power (dBm)

Maximum Output Power			
Modulation	Cond. Power (dBm)	EIRP (dBm)	EIRP Limit (dBm)
QPSK	22.65	24.02	33.01
16QAM	22.10	23.47	33.01
64QAM	20.86	22.23	33.01
256QAM	18.46	19.83	33.01

Note: EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

Conducted Output Power (dBm)

LTE Band 7						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		20800	21100	21400
		Frequency (MHz)		2505	2535	2565
10M	QPSK	1	0	22.56	22.67	22.41
		1	24	22.64	22.69	22.56
		1	49	22.42	22.53	22.43
		25	0	21.70	21.65	21.59
		25	12	21.60	21.62	21.50
		25	25	21.65	21.67	21.64
		50	0	21.67	21.84	21.62
10M	16QAM	1	0	22.12	22.09	22.15
		1	24	21.85	21.90	21.79
		1	49	21.76	21.79	21.86
		25	0	20.75	20.77	20.75
		25	12	20.54	20.73	20.53
		25	25	20.80	20.74	20.76
		50	0	20.68	20.77	20.69
10M	64QAM	1	0	20.74	20.82	20.67
		1	24	20.71	20.77	20.63
		1	49	20.59	20.69	20.59
		25	0	19.70	19.70	19.72
		25	12	19.66	19.67	19.64
		25	25	19.73	19.63	19.58
		50	0	19.65	19.75	19.57
10M	256QAM	1	0	18.36	18.41	18.35
		1	24	18.34	18.25	18.23
		1	49	18.24	18.22	18.11
		25	0	18.35	18.32	18.19
		25	12	18.28	18.30	18.23
		25	25	18.23	18.12	18.07
		50	0	18.42	18.37	18.41

EIRP Power (dBm)

Maximum Output Power			
Modulation	Cond. Power (dBm)	EIRP (dBm)	EIRP Limit (dBm)
QPSK	22.69	24.06	33.01
16QAM	22.15	23.52	33.01
64QAM	20.82	22.19	33.01
256QAM	18.42	19.79	33.01

Note: EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

Conducted Output Power (dBm)

LTE Band 7						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		20775	21100	21425
		Frequency (MHz)		2502.5	2535	2567.5
5M	QPSK	1	0	22.59	22.76	22.40
		1	12	22.54	22.68	22.36
		1	24	22.44	22.55	22.25
		12	0	21.69	21.75	21.58
		12	6	21.52	21.67	21.33
		12	13	21.73	21.69	21.53
		25	0	21.69	21.75	21.59
5M	16QAM	1	0	22.07	22.06	22.02
		1	12	21.98	21.89	21.74
		1	24	21.89	21.92	21.70
		12	0	20.75	20.77	20.84
		12	6	20.63	20.70	20.69
		12	13	20.64	20.77	20.60
		25	0	20.61	20.65	20.55
5M	64QAM	1	0	20.74	20.91	20.64
		1	12	20.78	20.76	20.63
		1	24	20.58	20.72	20.64
		12	0	19.67	19.76	19.61
		12	6	19.54	19.63	19.53
		12	13	19.70	19.68	19.58
		25	0	19.72	19.68	19.68
5M	256QAM	1	0	18.37	18.41	18.42
		1	12	18.23	18.23	18.19
		1	24	18.23	18.20	18.24
		12	0	18.30	18.23	18.19
		12	6	18.24	18.35	18.09
		12	13	18.27	18.21	18.07
		25	0	18.41	18.43	18.36

EIRP Power (dBm)

Maximum Output Power			
Modulation	Cond. Power (dBm)	EIRP (dBm)	EIRP Limit (dBm)
QPSK	22.76	24.13	33.01
16QAM	22.07	23.44	33.01
64QAM	20.91	22.28	33.01
256QAM	18.43	19.80	33.01

Note: EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

7.1.5 LTE Band 12

Conducted Output Power (dBm)

LTE Band 12						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		23060	23095	23130
		Frequency (MHz)		704	707.5	711
10M	QPSK	1	0	23.27	23.18	23.10
		1	24	23.17	23.12	23.02
		1	49	23.00	22.94	22.87
		25	0	22.21	22.15	22.10
		25	12	22.15	22.11	22.12
		25	25	22.04	21.97	21.89
		50	0	22.21	22.18	22.14
10M	16QAM	1	0	22.69	22.64	22.59
		1	24	22.53	22.46	22.41
		1	49	22.42	22.40	22.35
		25	0	21.22	21.19	21.15
		25	12	21.16	21.16	21.12
		25	25	21.01	20.93	20.90
		50	0	21.15	21.13	21.08
10M	64QAM	1	0	21.44	21.42	21.41
		1	24	21.37	21.32	21.27
		1	49	21.33	21.31	21.30
		25	0	20.16	20.08	20.04
		25	12	20.13	20.06	20.02
		25	25	19.94	19.90	19.85
		50	0	20.14	20.13	20.09
10M	256QAM	1	0	18.62	18.55	18.51
		1	24	18.56	18.52	18.46
		1	49	18.31	18.24	18.14
		25	0	18.61	18.60	18.56
		25	12	18.54	18.54	18.51
		25	25	18.43	18.34	18.30
		50	0	18.63	18.57	18.55

ERP Power (dBm)

Maximum Output Power			
Modulation	Cond. Power (dBm)	ERP (dBm)	ERP Limit (dBm)
QPSK	23.27	24.04	34.8
16QAM	22.69	23.46	34.8
64QAM	21.44	22.21	34.8
256QAM	18.63	19.40	34.8

Note:

EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

ERP (dBm) = EIRP (dBm) - 2.15

Conducted Output Power (dBm)

LTE Band 12						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		23035	23095	23155
		Frequency (MHz)		701.5	707.5	713.5
5M	QPSK	1	0	23.21	23.11	23.01
		1	12	23.01	22.95	22.99
		1	24	22.85	22.75	22.68
		12	0	22.18	22.09	21.95
		12	6	21.98	21.92	22.10
		12	13	21.85	21.86	21.77
		25	0	22.08	22.11	21.94
5M	16QAM	1	0	22.57	22.60	22.43
		1	12	22.40	22.38	22.35
		1	24	22.33	22.33	22.20
		12	0	21.04	21.07	21.04
		12	6	21.00	21.05	20.94
		12	13	20.93	20.81	20.85
		25	0	20.98	21.06	20.97
5M	64QAM	1	0	21.30	21.24	21.27
		1	12	21.28	21.21	21.24
		1	24	21.28	21.13	21.27
		12	0	20.12	19.86	19.87
		12	6	20.12	19.98	19.97
		12	13	19.87	19.69	19.70
		25	0	20.08	19.97	19.89
5M	256QAM	1	0	18.62	18.45	18.24
		1	12	18.44	18.42	18.43
		1	24	18.25	18.13	18.00
		12	0	18.49	18.44	18.41
		12	6	18.37	18.48	18.40
		12	13	18.26	18.14	18.15
		25	0	18.57	18.36	18.45

ERP Power (dBm)

Maximum Output Power			
Modulation	Cond. Power (dBm)	ERP (dBm)	ERP Limit (dBm)
QPSK	23.21	23.98	34.8
16QAM	22.60	23.37	34.8
64QAM	21.30	22.07	34.8
256QAM	18.62	19.39	34.8

Note:

EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

ERP (dBm) = EIRP (dBm) - 2.15

Conducted Output Power (dBm)

LTE Band 12						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		23025	23095	23165
		Frequency (MHz)		700.5	707.5	714.5
3M	QPSK	1	0	23.20	23.07	23.02
		1	7	23.04	22.97	22.82
		1	14	22.81	22.77	22.66
		8	0	22.07	21.97	22.05
		8	3	22.02	22.05	22.00
		8	7	21.95	21.86	21.73
		15	0	22.01	22.01	22.10
3M	16QAM	1	0	22.57	22.46	22.38
		1	7	22.40	22.35	22.29
		1	14	22.34	22.31	22.21
		8	0	21.01	21.12	20.94
		8	3	21.07	21.06	21.08
		8	7	20.97	20.74	20.76
		15	0	20.93	20.99	20.97
3M	64QAM	1	0	21.33	21.37	21.35
		1	7	21.21	21.19	21.16
		1	14	21.23	21.17	21.15
		8	0	19.93	19.99	19.89
		8	3	20.02	20.02	19.94
		8	7	19.82	19.76	19.70
		15	0	19.99	19.98	19.97
3M	256QAM	1	0	18.39	18.45	18.31
		1	7	18.46	18.40	18.47
		1	14	18.22	18.09	18.07
		8	0	18.46	18.40	18.35
		8	3	18.52	18.45	18.37
		8	7	18.32	18.24	18.14
		15	0	18.46	18.46	18.47

ERP Power (dBm)

Maximum Output Power			
Modulation	Cond. Power (dBm)	ERP (dBm)	ERP Limit (dBm)
QPSK	23.20	23.97	34.8
16QAM	22.57	23.34	34.8
64QAM	21.37	22.14	34.8
256QAM	18.52	19.29	34.8

Note:

EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

ERP (dBm) = EIRP (dBm) - 2.15

Conducted Output Power (dBm)

LTE Band 12						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		23017	23095	23173
		Frequency (MHz)		699.7	707.5	715.3
1.4M	QPSK	1	0	23.05	23.06	22.99
		1	2	23.01	23.03	22.88
		1	5	22.90	22.86	22.74
		3	0	23.05	23.00	23.05
		3	1	23.02	23.03	22.94
		3	3	22.83	22.87	22.76
		6	0	22.13	22.08	22.11
1.4M	16QAM	1	0	22.66	22.56	22.53
		1	2	22.37	22.34	22.29
		1	5	22.26	22.20	22.25
		3	0	22.12	22.04	22.04
		3	1	21.98	22.05	21.96
		3	3	21.85	21.88	21.80
		6	0	20.92	20.98	20.91
1.4M	64QAM	1	0	21.27	21.25	21.35
		1	2	21.34	21.18	21.15
		1	5	21.26	21.08	21.16
		3	0	20.96	20.90	20.81
		3	1	20.95	20.98	20.82
		3	3	20.83	20.79	20.81
		6	0	19.96	19.99	19.95
1.4M	256QAM	1	0	18.46	18.38	18.33
		1	2	18.56	18.34	18.26
		1	5	18.12	18.16	18.01
		3	0	18.41	18.43	18.50
		3	1	18.38	18.50	18.34
		3	3	18.27	18.26	18.26
		6	0	18.47	18.37	18.32

ERP Power (dBm)

Maximum Output Power			
Modulation	Cond. Power (dBm)	ERP (dBm)	ERP Limit (dBm)
QPSK	23.06	23.83	34.8
16QAM	22.66	23.43	34.8
64QAM	21.35	22.12	34.8
256QAM	18.56	19.33	34.8

Note:

EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

ERP (dBm) = EIRP (dBm) - 2.15

7.1.6 LTE Band 13

Conducted Output Power (dBm)

LTE Band 13				
BW	MCS Index	RB Size	RB Offset	Mid
		Channel		23230
		Frequency (MHz)		782
10M	QPSK	1	0	23.02
		1	24	22.87
		1	49	22.63
		25	0	22.00
		25	12	21.88
		25	25	21.78
		50	0	21.87
10M	16QAM	1	0	22.36
		1	24	22.15
		1	49	22.07
		25	0	21.03
		25	12	20.88
		25	25	20.81
		50	0	20.97
10M	64QAM	1	0	21.12
		1	24	20.94
		1	49	20.87
		25	0	19.96
		25	12	19.90
		25	25	19.74
		50	0	19.89
10M	256QAM	1	0	18.69
		1	24	18.54
		1	49	18.48
		25	0	18.53
		25	12	18.34
		25	25	18.24
		50	0	18.43

ERP Power (dBm)

Maximum Output Power			
Modulation	Cond. Power (dBm)	ERP (dBm)	ERP Limit (dBm)
QPSK	23.02	21.91	34.8
16QAM	22.36	21.25	34.8
64QAM	21.12	20.01	34.8
256QAM	18.69	17.58	34.8

Note:

EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

ERP (dBm) = EIRP (dBm) - 2.15

Conducted Output Power (dBm)

LTE Band 13						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		23205	23230	23255
		Frequency (MHz)		779.5	782	784.5
5M	QPSK	1	0	22.97	22.85	22.90
		1	12	22.66	22.81	22.71
		1	24	22.56	22.57	22.49
		12	0	21.84	21.96	21.79
		12	6	21.77	21.74	21.80
		12	13	21.75	21.63	21.69
		25	0	21.82	21.80	21.67
5M	16QAM	1	0	22.16	22.26	22.30
		1	12	21.98	22.06	22.05
		1	24	21.99	22.00	22.03
		12	0	20.87	20.95	20.89
		12	6	20.67	20.76	20.70
		12	13	20.61	20.76	20.65
		25	0	20.93	20.75	20.76
5M	64QAM	1	0	20.87	21.03	21.01
		1	12	20.72	20.86	20.85
		1	24	20.68	20.75	20.77
		12	0	19.80	19.79	19.81
		12	6	19.74	19.84	19.81
		12	13	19.51	19.71	19.54
		25	0	19.80	19.81	19.82
5M	256QAM	1	0	18.43	18.54	18.47
		1	12	18.25	18.39	18.31
		1	24	18.30	18.40	18.29
		12	0	18.34	18.36	18.36
		12	6	18.11	18.27	18.08
		12	13	17.96	18.17	18.06
		25	0	18.31	18.23	18.33

ERP Power (dBm)

Maximum Output Power			
Modulation	Cond. Power (dBm)	ERP (dBm)	ERP Limit (dBm)
QPSK	22.97	21.86	34.8
16QAM	22.30	21.19	34.8
64QAM	21.03	19.92	34.8
256QAM	18.54	17.43	34.8

Note:

EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

ERP (dBm) = EIRP (dBm) - 2.15

7.1.7 LTE Band 14

Conducted Output Power (dBm)

LTE Band 14				
BW	MCS Index	RB Size	RB Offset	Mid
		Channel		23330
		Frequency (MHz)		793
10M	QPSK	1	0	22.96
		1	24	22.84
		1	49	22.78
		25	0	22.06
		25	12	21.86
		25	25	21.84
		50	0	22.06
10M	16QAM	1	0	22.39
		1	24	22.22
		1	49	22.04
		25	0	20.93
		25	12	20.97
		25	25	21.04
		50	0	21.01
10M	64QAM	1	0	21.06
		1	24	21.10
		1	49	21.01
		25	0	20.04
		25	12	19.95
		25	25	19.88
		50	0	19.98
10M	256QAM	1	0	18.62
		1	24	18.51
		1	49	18.45
		25	0	18.51
		25	12	18.49
		25	25	18.31
		50	0	18.72

ERP Power (dBm)

Maximum Output Power			
Modulation	Cond. Power (dBm)	ERP (dBm)	ERP Limit (dBm)
QPSK	22.96	21.8	34.8
16QAM	22.39	21.23	34.8
64QAM	21.10	19.94	34.8
256QAM	18.72	17.56	34.8

Note: EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

ERP (dBm) = EIRP (dBm) - 2.15

Conducted Output Power (dBm)

LTE Band 14						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		23305	23330	23355
		Frequency (MHz)		790.5	793	795.5
5M	QPSK	1	0	22.85	22.73	22.78
		1	12	22.54	22.69	22.59
		1	24	22.44	22.45	22.37
		12	0	21.72	21.84	21.67
		12	6	21.65	21.62	21.68
		12	13	21.63	21.51	21.57
		25	0	21.70	21.68	21.55
5M	16QAM	1	0	22.04	22.14	22.18
		1	12	21.86	21.94	21.93
		1	24	21.87	21.88	21.91
		12	0	20.75	20.83	20.77
		12	6	20.55	20.64	20.58
		12	13	20.49	20.64	20.53
		25	0	20.81	20.63	20.64
5M	64QAM	1	0	20.75	20.91	20.89
		1	12	20.60	20.74	20.73
		1	24	20.56	20.63	20.65
		12	0	19.68	19.67	19.69
		12	6	19.62	19.72	19.69
		12	13	19.39	19.59	19.42
		25	0	19.68	19.69	19.70
5M	256AM	1	0	18.57	18.65	18.56
		1	12	18.41	18.66	18.64
		1	24	18.47	18.49	18.45
		12	0	18.45	18.58	18.43
		12	6	18.25	18.42	18.31
		12	13	18.23	18.35	18.17
		25	0	18.37	18.51	18.44

ERP Power (dBm)

Maximum Output Power			
Modulation	Cond. Power (dBm)	ERP (dBm)	ERP Limit (dBm)
QPSK	22.85	21.69	34.8
16QAM	22.18	21.02	34.8
64QAM	20.91	19.75	34.8
256AM	18.66	17.50	34.8

Note: EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

ERP (dBm) = EIRP (dBm) - 2.15

7.1.8 LTE Band 17

Conducted Output Power (dBm)

LTE Band 17						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		23780	23790	23800
		Frequency (MHz)		709	710	711
10M	QPSK	1	0	23.18	23.20	23.14
		1	24	23.04	23.11	22.94
		1	49	22.94	22.99	22.92
		25	0	22.13	22.15	22.07
		25	12	22.00	22.09	21.98
		25	25	21.93	21.99	21.89
		50	0	22.08	22.10	22.07
10M	16QAM	1	0	22.59	22.61	22.54
		1	24	22.41	22.50	22.31
		1	49	22.28	22.29	22.28
		25	0	21.12	21.17	21.07
		25	12	21.06	21.11	21.01
		25	25	21.01	21.06	21.00
		50	0	21.11	21.15	21.04
10M	64QAM	1	0	21.45	21.51	21.45
		1	24	21.29	21.34	21.27
		1	49	21.21	21.23	21.18
		25	0	20.13	20.21	20.12
		25	12	20.06	20.15	20.01
		25	25	20.01	20.11	19.99
		50	0	20.04	20.13	20.01
10M	256QAM	1	0	18.38	18.42	18.40
		1	24	18.21	18.31	18.31
		1	49	18.17	18.26	18.24
		25	0	18.16	18.23	18.14
		25	12	18.13	18.21	18.20
		25	25	17.96	18.09	18.06
		50	0	18.33	18.41	18.35

ERP Power (dBm)

Maximum Output Power			
Modulation	Cond. Power (dBm)	ERP (dBm)	ERP Limit (dBm)
QPSK	23.20	23.97	34.8
16QAM	22.61	23.38	34.8
64QAM	21.51	22.28	34.8
256QAM	18.42	19.19	34.8

Note: EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

ERP (dBm) = EIRP (dBm) - 2.15

Conducted Output Power (dBm)

LTE Band 17						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		23755	23790	23825
		Frequency (MHz)		706.5	710	713.5
5M	QPSK	1	0	23.00	23.08	23.09
		1	12	22.96	22.99	22.81
		1	24	22.84	22.85	22.81
		12	0	21.92	22.08	21.98
		12	6	21.88	21.88	21.90
		12	13	21.85	21.94	21.76
		25	0	22.05	21.98	21.95
5M	16QAM	1	0	22.44	22.43	22.33
		1	12	22.33	22.39	22.27
		1	24	22.07	22.07	22.17
		12	0	21.00	21.01	20.99
		12	6	20.93	20.96	20.93
		12	13	20.86	20.97	20.95
		25	0	21.00	20.93	20.91
5M	64QAM	1	0	21.35	21.35	21.42
		1	12	21.19	21.25	21.26
		1	24	21.07	21.14	20.94
		12	0	20.01	20.13	20.03
		12	6	19.88	20.13	19.88
		12	13	19.93	19.99	19.86
		25	0	19.90	20.08	19.80
5M	256QAM	1	0	18.36	18.35	18.33
		1	12	18.18	18.28	18.28
		1	24	18.09	18.22	18.24
		12	0	18.09	18.19	18.08
		12	6	18.06	18.11	18.13
		12	13	17.91	18.03	18.01
		25	0	18.24	18.35	18.25

ERP Power (dBm)

Maximum Output Power			
Modulation	Cond. Power (dBm)	ERP (dBm)	ERP Limit (dBm)
QPSK	23.09	23.86	34.8
16QAM	22.44	23.21	34.8
64QAM	21.42	22.19	34.8
256QAM	18.36	19.13	34.8

Note: EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

ERP (dBm) = EIRP (dBm) - 2.15

7.1.9 LTE Band 25

Conducted Output Power (dBm)

LTE Band 25						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		26140	26365	26590
		Frequency (MHz)		1860	1882.5	1905
20M	QPSK	1	0	22.88	22.81	22.75
		1	50	22.66	22.58	22.52
		1	99	22.47	22.39	22.33
		50	0	21.76	21.75	21.75
		50	25	21.67	21.67	21.58
		50	50	21.54	21.48	21.44
		100	0	21.73	21.64	21.57
20M	16QAM	1	0	22.13	22.07	22.06
		1	50	21.84	21.80	21.74
		1	99	21.75	21.68	21.68
		50	0	20.77	20.77	20.76
		50	25	20.73	20.63	20.62
		50	50	20.69	20.62	20.60
		100	0	20.76	20.67	20.64
20M	64QAM	1	0	21.09	21.05	21.02
		1	50	20.80	20.72	20.69
		1	99	20.68	20.68	20.61
		50	0	19.78	19.72	19.68
		50	25	19.72	19.71	19.61
		50	50	19.58	19.55	19.54
		100	0	19.73	19.67	19.66
20M	256QAM	1	0	18.43	18.40	18.30
		1	50	18.36	18.26	18.21
		1	99	18.15	18.08	18.03
		50	0	18.23	18.21	18.19
		50	25	18.01	17.99	17.94
		50	50	17.97	17.91	17.86
		100	0	18.32	18.28	18.20

EIRP Power (dBm)

Maximum Output Power			
Modulation	Cond. Power (dBm)	EIRP (dBm)	EIRP Limit (dBm)
QPSK	22.88	24.18	33.01
16QAM	22.13	23.43	33.01
64QAM	21.09	22.39	33.01
256QAM	18.43	19.73	33.01

Note: EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

Conducted Output Power (dBm)

LTE Band 25						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		26115	26365	26615
		Frequency (MHz)		1857.5	1882.5	1907.5
15M	QPSK	1	0	22.81	22.78	22.66
		1	37	22.50	22.34	22.42
		1	74	22.36	22.18	22.18
		36	0	21.67	21.54	21.68
		36	19	21.57	21.48	21.44
		36	39	21.34	21.27	21.41
		75	0	21.55	21.61	21.42
15M	16QAM	1	0	21.94	21.96	22.01
		1	37	21.76	21.63	21.65
		1	74	21.61	21.60	21.44
		36	0	20.60	20.61	20.51
		36	19	20.61	20.45	20.57
		36	39	20.53	20.40	20.43
		75	0	20.55	20.46	20.61
15M	64QAM	1	0	20.94	20.92	20.83
		1	37	20.66	20.71	20.59
		1	74	20.54	20.50	20.44
		36	0	19.59	19.55	19.59
		36	19	19.56	19.59	19.47
		36	39	19.45	19.43	19.36
		75	0	19.70	19.66	19.43
15M	256QAM	1	0	18.35	18.24	18.18
		1	37	18.30	18.19	18.05
		1	74	17.99	18.01	17.92
		36	0	18.12	18.05	18.02
		36	19	17.85	17.77	17.83
		36	39	17.78	17.75	17.82
		75	0	18.15	18.22	18.08

EIRP Power (dBm)

Maximum Output Power			
Modulation	Cond. Power (dBm)	EIRP (dBm)	EIRP Limit (dBm)
QPSK	22.81	24.11	33.01
16QAM	22.01	23.31	33.01
64QAM	20.94	22.24	33.01
256QAM	18.35	19.65	33.01

Note: EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

Conducted Output Power (dBm)

LTE Band 25						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		26090	26365	26640
		Frequency (MHz)		1855	1882.5	1910
10M	QPSK	1	0	22.84	22.63	22.61
		1	24	22.41	22.45	22.29
		1	49	22.38	22.16	22.24
		25	0	21.54	21.62	21.68
		25	12	21.57	21.60	21.44
		25	25	21.34	21.35	21.34
		50	0	21.51	21.56	21.48
10M	16QAM	1	0	22.03	21.96	22.00
		1	24	21.72	21.69	21.68
		1	49	21.61	21.55	21.54
		25	0	20.68	20.63	20.76
		25	12	20.51	20.48	20.44
		25	25	20.61	20.59	20.49
		50	0	20.64	20.44	20.49
10M	64QAM	1	0	21.04	21.01	20.94
		1	24	20.60	20.59	20.52
		1	49	20.62	20.50	20.53
		25	0	19.66	19.55	19.54
		25	12	19.55	19.55	19.46
		25	25	19.43	19.44	19.44
		50	0	19.65	19.61	19.51
10M	256QAM	1	0	18.28	18.23	18.13
		1	24	18.24	18.03	18.02
		1	49	18.03	17.88	17.95
		25	0	18.07	18.09	18.01
		25	12	17.90	17.90	17.76
		25	25	17.82	17.76	17.68
		50	0	18.25	18.17	18.13

EIRP Power (dBm)

Maximum Output Power			
Modulation	Cond. Power (dBm)	EIRP (dBm)	EIRP Limit (dBm)
QPSK	22.84	24.14	33.01
16QAM	22.03	23.33	33.01
64QAM	21.04	22.34	33.01
256QAM	18.28	19.58	33.01

Note: EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

Conducted Output Power (dBm)

LTE Band 25						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		26065	26365	26665
		Frequency (MHz)		1852.5	1882.5	1912.5
5M	QPSK	1	0	22.75	22.61	22.65
		1	12	22.57	22.49	22.38
		1	24	22.34	22.26	22.15
		12	0	21.69	21.71	21.64
		12	6	21.57	21.48	21.46
		12	13	21.46	21.38	21.42
		25	0	21.53	21.43	21.44
5M	16QAM	1	0	21.99	21.84	22.04
		1	12	21.71	21.70	21.55
		1	24	21.56	21.54	21.56
		12	0	20.71	20.72	20.67
		12	6	20.55	20.55	20.48
		12	13	20.53	20.57	20.45
		25	0	20.72	20.51	20.52
5M	64QAM	1	0	20.95	20.88	20.85
		1	12	20.65	20.64	20.58
		1	24	20.65	20.50	20.50
		12	0	19.56	19.63	19.58
		12	6	19.65	19.56	19.58
		12	13	19.45	19.49	19.49
		25	0	19.58	19.55	19.58
5M	256QAM	1	0	18.23	18.38	18.18
		1	12	18.29	18.03	18.12
		1	24	18.08	18.01	17.81
		12	0	18.02	18.12	18.14
		12	6	17.85	17.82	17.82
		12	13	17.84	17.87	17.66
		25	0	18.24	18.15	18.03

EIRP Power (dBm)

Maximum Output Power			
Modulation	Cond. Power (dBm)	EIRP (dBm)	EIRP Limit (dBm)
QPSK	22.75	24.05	33.01
16QAM	22.04	23.34	33.01
64QAM	20.95	22.25	33.01
256QAM	18.38	19.68	33.01

Note: EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

Conducted Output Power (dBm)

LTE Band 25						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		26055	26365	26675
		Frequency (MHz)		1851.5	1882.5	1913.5
3M	QPSK	1	0	22.76	22.76	22.74
		1	7	22.50	22.57	22.43
		1	14	22.29	22.25	22.15
		8	0	21.62	21.62	21.69
		8	3	21.49	21.44	21.51
		8	7	21.36	21.38	21.31
		15	0	21.55	21.54	21.33
3M	16QAM	1	0	22.00	22.01	22.04
		1	7	21.69	21.69	21.61
		1	14	21.61	21.64	21.53
		8	0	20.66	20.73	20.52
		8	3	20.70	20.54	20.59
		8	7	20.52	20.44	20.39
		15	0	20.53	20.60	20.54
3M	64QAM	1	0	21.05	20.88	20.85
		1	7	20.70	20.65	20.61
		1	14	20.56	20.44	20.45
		8	0	19.62	19.62	19.56
		8	3	19.62	19.53	19.46
		8	7	19.46	19.49	19.45
		15	0	19.62	19.48	19.59
3M	256QAM	1	0	18.30	18.26	18.27
		1	7	18.16	18.21	18.08
		1	14	18.03	17.94	17.80
		8	0	18.15	18.20	18.00
		8	3	17.90	17.91	17.90
		8	7	17.80	17.83	17.61
		15	0	18.20	18.18	18.12

EIRP Power (dBm)

Maximum Output Power			
Modulation	Cond. Power (dBm)	EIRP (dBm)	EIRP Limit (dBm)
QPSK	22.76	24.06	33.01
16QAM	22.04	23.34	33.01
64QAM	21.05	22.35	33.01
256QAM	18.30	19.60	33.01

Note: EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

Conducted Output Power (dBm)

LTE Band 25						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		26047	26365	26683
		Frequency (MHz)		1850.7	1882.5	1914.3
1.4M	QPSK	1	0	22.78	22.70	22.68
		1	2	22.50	22.46	22.45
		1	5	22.23	22.25	22.26
		3	0	22.61	22.63	22.58
		3	1	22.55	22.58	22.47
		3	3	22.53	22.34	22.26
		6	0	21.68	21.42	21.47
1.4M	16QAM	1	0	22.02	21.90	21.96
		1	2	21.67	21.63	21.60
		1	5	21.55	21.51	21.54
		3	0	21.70	21.57	21.62
		3	1	21.67	21.55	21.42
		3	3	21.57	21.40	21.57
		6	0	20.60	20.56	20.49
1.4M	64QAM	1	0	21.05	20.87	20.85
		1	2	20.72	20.62	20.58
		1	5	20.54	20.51	20.49
		3	0	20.64	20.59	20.58
		3	1	20.64	20.56	20.49
		3	3	20.51	20.37	20.38
		6	0	19.52	19.49	19.47
1.4M	256QAM	1	0	18.29	18.25	18.15
		1	2	18.20	18.21	18.07
		1	5	18.11	17.93	17.88
		3	0	18.02	18.00	18.13
		3	1	17.90	17.93	17.80
		3	3	17.83	17.83	17.71
		6	0	18.20	18.20	18.08

EIRP Power (dBm)

Maximum Output Power			
Modulation	Cond. Power (dBm)	EIRP (dBm)	EIRP Limit (dBm)
QPSK	22.78	24.08	33.01
16QAM	22.02	23.32	33.01
64QAM	21.05	22.35	33.01
256QAM	18.29	19.59	33.01

Note: EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

7.1.10 LTE Band 26 (814 MHz ~ 824 MHz)

Conducted Output Power (dBm)

LTE Band 26				
BW	MCS Index	RB Size	RB Offset	Low
		Channel		26765
		Frequency (MHz)		821.5
15M	QPSK	1	0	22.91
		1	37	22.65
		1	74	22.45
		36	0	21.91
		36	19	21.85
		36	39	21.67
		75	0	21.92
15M	16QAM	1	0	21.94
		1	37	21.81
		1	74	21.51
		36	0	20.76
		36	19	20.90
		36	39	20.70
		75	0	20.76
15M	64QAM	1	0	20.97
		1	37	20.84
		1	74	20.84
		36	0	19.87
		36	19	19.77
		36	39	19.71
		75	0	19.90
15M	256QAM	1	0	18.24
		1	37	18.06
		1	74	18.08
		36	0	18.06
		36	19	18.08
		36	39	18.02
		75	0	18.00

ERP Power (dBm)

Maximum Output Power			
Modulation	Cond. Power (dBm)	ERP (dBm)	ERP Limit (dBm)
QPSK	22.91	21.26	50
16QAM	21.94	20.29	50
64QAM	20.97	19.32	50
256QAM	18.24	16.59	50

Note:

EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

ERP (dBm) = EIRP (dBm) - 2.15

Conducted Output Power (dBm)

LTE Band 26				
BW	MCS Index	RB Size	RB Offset	Mid
		Channel		26740
		Frequency (MHz)		819
10M	QPSK	1	0	22.77
		1	24	22.53
		1	49	22.50
		25	0	21.82
		25	12	21.68
		25	25	21.64
		50	0	21.79
10M	16QAM	1	0	22.03
		1	24	21.82
		1	49	21.51
		25	0	20.94
		25	12	20.81
		25	25	20.74
		50	0	20.87
10M	64QAM	1	0	20.81
		1	24	20.87
		1	49	20.71
		25	0	19.82
		25	12	19.85
		25	25	19.72
		50	0	19.80
10M	256QAM	1	0	18.15
		1	24	18.07
		1	49	18.05
		25	0	18.16
		25	12	18.08
		25	25	17.94
		50	0	18.02

ERP Power (dBm)

Maximum Output Power			
Modulation	Cond. Power (dBm)	ERP (dBm)	ERP Limit (dBm)
QPSK	22.77	21.12	50
16QAM	22.03	20.38	50
64QAM	20.87	19.22	50
256QAM	18.16	16.51	50

Note:

EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

ERP (dBm) = EIRP (dBm) - 2.15

Conducted Output Power (dBm)

LTE Band 26						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		26715	26740	26765
		Frequency (MHz)		816.5	819	821.5
5M	QPSK	1	0	22.76	22.77	22.97
		1	12	22.60	22.53	22.68
		1	24	22.54	22.50	22.67
		12	0	21.86	21.82	21.97
		12	6	21.72	21.68	21.90
		12	13	21.63	21.64	21.81
		25	0	21.81	21.79	21.96
5M	16QAM	1	0	21.85	22.03	22.03
		1	12	21.89	21.82	21.95
		1	24	21.69	21.51	21.71
		12	0	20.85	20.94	20.96
		12	6	20.78	20.81	20.93
		12	13	20.74	20.74	20.84
		25	0	20.89	20.87	20.98
5M	64QAM	1	0	20.93	20.81	20.99
		1	12	20.83	20.87	20.94
		1	24	20.69	20.71	20.87
		12	0	19.80	19.82	19.91
		12	6	19.69	19.85	19.89
		12	13	19.72	19.72	19.83
		25	0	19.82	19.80	19.96
5M	256QAM	1	0	18.15	18.15	18.31
		1	12	18.02	18.07	18.22
		1	24	17.96	18.05	18.13
		12	0	17.98	18.16	18.23
		12	6	18.16	18.08	18.17
		12	13	18.05	17.94	18.06
		25	0	18.08	18.02	18.22

ERP Power (dBm)

Maximum Output Power			
Modulation	Cond. Power (dBm)	ERP (dBm)	ERP Limit (dBm)
QPSK	22.97	21.32	50
16QAM	22.03	20.38	50
64QAM	20.99	19.34	50
256QAM	18.31	16.66	50

Note:

EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

ERP (dBm) = EIRP (dBm) - 2.15

Conducted Output Power (dBm)

LTE Band 26						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		26705	26740	26775
		Frequency (MHz)		815.5	819	822.5
3M	QPSK	1	0	22.87	22.68	22.88
		1	7	22.62	22.39	22.68
		1	14	22.61	22.41	22.54
		8	0	21.92	21.82	21.96
		8	3	21.67	21.65	21.89
		8	7	21.72	21.61	21.74
		15	0	21.94	21.75	21.88
3M	16QAM	1	0	21.81	22.02	22.01
		1	7	21.86	21.71	21.90
		1	14	21.53	21.51	21.69
		8	0	20.81	20.82	20.83
		8	3	20.78	20.81	20.91
		8	7	20.73	20.74	20.77
		15	0	20.96	20.75	20.85
3M	64QAM	1	0	20.88	20.80	20.96
		1	7	20.86	20.76	20.89
		1	14	20.77	20.71	20.72
		8	0	19.75	19.80	19.90
		8	3	19.69	19.80	19.80
		8	7	19.80	19.69	19.81
		15	0	19.89	19.69	19.92
3M	256QAM	1	0	18.20	18.10	18.24
		1	7	18.00	18.06	18.21
		1	14	18.04	17.97	18.03
		8	0	18.01	18.07	18.10
		8	3	18.01	17.97	18.13
		8	7	17.95	17.91	17.92
		15	0	17.99	17.91	18.20

ERP Power (dBm)

Maximum Output Power			
Modulation	Cond. Power (dBm)	ERP (dBm)	ERP Limit (dBm)
QPSK	22.88	21.23	50
16QAM	22.02	20.37	50
64QAM	20.96	19.31	50
256QAM	18.24	16.59	50

Note:

EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

ERP (dBm) = EIRP (dBm) - 2.15

Conducted Output Power (dBm)

LTE Band 26						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		26697	26740	26783
		Frequency (MHz)		814.7	819	823.3
1.4M	QPSK	1	0	22.77	22.67	22.85
		1	7	22.56	22.42	22.64
		1	14	22.56	22.40	22.60
		8	0	22.89	22.79	22.91
		8	3	22.80	22.60	22.90
		8	7	22.65	22.55	22.73
		15	0	21.85	21.76	21.81
1.4M	16QAM	1	0	21.91	21.99	22.02
		1	7	21.89	21.79	21.95
		1	14	21.51	21.45	21.68
		8	0	21.85	21.85	21.92
		8	3	21.76	21.76	21.82
		8	7	21.77	21.66	21.69
		15	0	20.93	20.83	20.95
1.4M	64QAM	1	0	20.88	20.78	20.96
		1	7	20.79	20.77	20.85
		1	14	20.78	20.59	20.78
		8	0	20.80	20.71	20.87
		8	3	20.75	20.73	20.74
		8	7	20.70	20.67	20.74
		15	0	19.85	19.75	19.86
1.4M	256QAM	1	0	18.21	18.15	18.25
		1	7	18.14	18.07	18.07
		1	14	18.01	17.90	18.12
		8	0	18.07	19.07	19.21
		8	3	18.06	19.02	19.05
		8	7	17.93	18.85	19.06
		15	0	18.09	17.87	18.08

ERP Power (dBm)

Maximum Output Power			
Modulation	Cond. Power (dBm)	ERP (dBm)	ERP Limit (dBm)
QPSK	22.91	21.26	50
16QAM	22.02	20.37	50
64QAM	20.96	19.31	50
256QAM	19.21	17.56	50

Note:

EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

ERP (dBm) = EIRP (dBm) - 2.15

7.1.11 LTE Band 26 (824 MHz ~ 849 MHz)

Conducted Output Power (dBm)

LTE Band 26						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		26865	26915	26965
		Frequency (MHz)		831.5	836.5	841.5
15M	QPSK	1	0	22.95	22.86	22.92
		1	37	22.66	22.61	22.57
		1	74	22.62	22.60	22.51
		36	0	21.96	21.90	21.89
		36	19	21.84	21.76	21.76
		36	39	21.71	21.62	21.64
		75	0	21.88	21.84	21.93
15M	16QAM	1	0	21.96	21.95	21.89
		1	37	21.94	21.94	21.83
		1	74	21.61	21.56	21.52
		36	0	20.88	20.84	20.81
		36	19	20.86	20.78	20.79
		36	39	20.78	20.78	20.78
		75	0	20.98	20.97	20.89
15M	64QAM	1	0	20.92	20.84	20.86
		1	37	20.86	20.85	20.78
		1	74	20.81	20.74	20.77
		36	0	19.88	19.78	19.86
		36	19	19.80	19.70	19.80
		36	39	19.73	19.68	19.68
		75	0	19.94	19.89	19.90
15M	256QAM	1	0	18.23	18.22	18.16
		1	37	18.15	18.14	18.15
		1	74	18.03	18.02	18.02
		36	0	18.22	18.15	18.20
		36	19	18.12	18.03	18.03
		36	39	18.05	18.01	18.00
		75	0	18.19	18.12	18.10

ERP Power (dBm)

Maximum Output Power			
Modulation	Cond. Power (dBm)	ERP (dBm)	ERP Limit (dBm)
QPSK	22.95	21.30	38.5
16QAM	21.96	20.31	38.5
64QAM	20.92	19.27	38.5
256QAM	18.23	16.58	38.5

Note:

EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

ERP (dBm) = EIRP (dBm) - 2.15

Conducted Output Power (dBm)

LTE Band 26						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		26840	26915	26990
		Frequency (MHz)		829	836.5	844
10M	QPSK	1	0	22.90	22.74	22.84
		1	37	22.53	22.54	22.40
		1	74	22.55	22.57	22.37
		36	0	21.81	21.77	21.77
		36	19	21.83	21.74	21.64
		36	39	21.68	21.61	21.56
		75	0	21.80	21.76	21.68
10M	16QAM	1	0	21.82	21.80	21.82
		1	37	21.88	21.79	21.76
		1	74	21.47	21.54	21.32
		36	0	20.83	20.70	20.79
		36	19	20.85	20.72	20.63
		36	39	20.75	20.70	20.70
		75	0	20.86	20.87	20.74
10M	64QAM	1	0	20.78	20.72	20.71
		1	37	20.73	20.82	20.74
		1	74	20.71	20.59	20.73
		36	0	19.80	19.64	19.70
		36	19	19.74	19.70	19.64
		36	39	19.71	19.67	19.61
		75	0	19.85	19.75	19.68
10M	256QAM	1	0	18.22	18.04	18.06
		1	37	18.13	18.02	17.92
		1	74	17.98	17.81	17.88
		36	0	18.08	18.18	18.15
		36	19	18.05	17.96	17.90
		36	39	17.94	17.92	17.93
		75	0	18.18	18.08	17.94

ERP Power (dBm)

Maximum Output Power			
Modulation	Cond. Power (dBm)	ERP (dBm)	ERP Limit (dBm)
QPSK	22.90	21.25	38.5
16QAM	21.88	20.23	38.5
64QAM	20.82	19.17	38.5
256QAM	18.22	16.57	38.5

Note:

EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

ERP (dBm) = EIRP (dBm) - 2.15

Conducted Output Power (dBm)

LTE Band 26						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		26815	26915	27015
		Frequency (MHz)		826.5	836.5	846.5
5M	QPSK	1	0	22.81	22.65	22.71
		1	12	22.53	22.52	22.47
		1	24	22.44	22.51	22.53
		12	0	21.77	21.72	21.78
		12	6	21.69	21.74	21.60
		12	13	21.62	21.53	21.48
		25	0	21.70	21.62	21.69
5M	16QAM	1	0	21.78	21.73	21.79
		1	12	21.77	21.79	21.86
		1	24	21.41	21.48	21.44
		12	0	20.78	20.66	20.64
		12	6	20.82	20.62	20.60
		12	13	20.69	20.55	20.63
		25	0	20.86	20.74	20.67
5M	64QAM	1	0	20.67	20.62	20.75
		1	12	20.71	20.81	20.59
		1	24	20.59	20.52	20.78
		12	0	19.70	19.62	19.70
		12	6	19.74	19.59	19.67
		12	13	19.68	19.53	19.56
		25	0	19.82	19.65	19.82
5M	256QAM	1	0	18.11	17.94	18.00
		1	12	18.06	17.87	18.02
		1	24	17.96	17.71	17.95
		12	0	18.05	18.06	18.01
		12	6	17.93	17.81	17.88
		12	13	17.93	17.81	17.75
		25	0	18.18	18.02	17.93

ERP Power (dBm)

Maximum Output Power			
Modulation	Cond. Power (dBm)	ERP (dBm)	ERP Limit (dBm)
QPSK	22.81	21.16	38.5
16QAM	21.86	20.21	38.5
64QAM	20.81	19.16	38.5
256QAM	18.18	16.53	38.5

Note:

EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

ERP (dBm) = EIRP (dBm) - 2.15

Conducted Output Power (dBm)

LTE Band 26						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		26805	26915	27025
		Frequency (MHz)		825.5	836.5	847.5
3M	QPSK	1	0	22.64	22.73	22.87
		1	7	22.51	22.35	22.39
		1	14	22.51	22.31	22.39
		8	0	21.66	21.63	21.72
		8	3	21.73	21.49	21.69
		8	7	21.61	21.41	21.60
		15	0	21.64	21.60	21.78
3M	16QAM	1	0	21.74	21.69	21.78
		1	7	21.66	21.66	21.81
		1	14	21.46	21.17	21.42
		8	0	20.57	20.69	20.76
		8	3	20.57	20.59	20.75
		8	7	20.65	20.62	20.63
		15	0	20.85	20.64	20.66
3M	64QAM	1	0	20.63	20.63	20.71
		1	7	20.78	20.69	20.68
		1	14	20.45	20.65	20.73
		8	0	19.63	19.70	19.69
		8	3	19.70	19.62	19.63
		8	7	19.65	19.53	19.48
		15	0	19.67	19.60	19.79
3M	256QAM	1	0	17.89	17.94	17.92
		1	7	17.99	17.91	17.98
		1	14	17.70	17.81	17.92
		8	0	18.08	18.03	18.08
		8	3	17.95	17.80	17.97
		8	7	17.89	17.91	17.87
		15	0	18.07	17.84	17.97

ERP Power (dBm)

Maximum Output Power			
Modulation	Cond. Power (dBm)	ERP (dBm)	ERP Limit (dBm)
QPSK	22.87	21.22	38.5
16QAM	21.81	20.16	38.5
64QAM	20.78	19.13	38.5
256QAM	18.08	16.43	38.5

Note:

EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

ERP (dBm) = EIRP (dBm) - 2.15

Conducted Output Power (dBm)

LTE Band 26						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		26797	26915	27033
		Frequency (MHz)		824.7	836.5	848.3
1.4M	QPSK	1	0	22.74	22.70	22.85
		1	2	22.45	22.28	22.40
		1	5	22.44	22.26	22.46
		3	0	22.74	22.72	22.81
		3	1	22.64	22.59	22.60
		3	3	22.50	22.45	22.47
		6	0	21.73	21.68	21.64
1.4M	16QAM	1	0	21.68	21.73	21.83
		1	2	21.71	21.68	21.79
		1	5	21.50	21.32	21.34
		3	0	21.58	21.74	21.70
		3	1	21.62	21.55	21.73
		3	3	21.55	21.59	21.63
		6	0	20.76	20.63	20.74
1.4M	64QAM	1	0	20.67	20.58	20.81
		1	2	20.77	20.73	20.61
		1	5	20.45	20.64	20.59
		3	0	20.55	20.70	20.83
		3	1	20.63	20.59	20.67
		3	3	20.52	20.49	20.54
		6	0	19.67	19.57	19.76
1.4M	256QAM	1	0	18.00	17.97	18.08
		1	2	17.92	17.83	17.97
		1	5	17.78	17.73	17.89
		3	0	19.06	19.10	18.10
		3	1	18.86	18.82	17.97
		3	3	18.90	18.92	17.83
		6	0	17.94	17.87	17.92

ERP Power (dBm)

Maximum Output Power			
Modulation	Cond. Power (dBm)	ERP (dBm)	ERP Limit (dBm)
QPSK	22.85	21.20	38.5
16QAM	21.83	20.18	38.5
64QAM	20.83	19.18	38.5
256QAM	19.10	17.45	38.5

Note:

EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

ERP (dBm) = EIRP (dBm) - 2.15

7.1.12 LTE Band 38

Conducted Output Power (dBm)

LTE Band 38						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		37850	38000	38150
		Frequency (MHz)		2580	2595	2610
20M	QPSK	1	0	22.91	22.97	22.93
		1	50	22.84	22.85	22.85
		1	99	22.70	22.75	22.75
		50	0	21.82	21.91	21.84
		50	25	21.73	21.87	21.77
		50	50	21.68	21.82	21.75
		100	0	21.72	21.84	21.78
20M	16QAM	1	0	21.88	21.95	21.92
		1	50	21.74	21.86	21.83
		1	99	21.60	21.73	21.63
		50	0	20.77	20.86	20.86
		50	25	20.73	20.85	20.80
		50	50	20.72	20.81	20.74
		100	0	20.76	20.89	20.84
20M	64QAM	1	0	20.81	20.87	20.87
		1	50	20.70	20.76	20.71
		1	99	20.56	20.68	20.61
		50	0	19.71	19.85	19.77
		50	25	19.67	19.80	19.75
		50	50	19.66	19.74	19.68
		100	0	19.69	19.78	19.71
20M	256QAM	1	0	17.88	17.96	17.91
		1	50	17.71	17.82	17.75
		1	99	17.65	17.73	17.65
		50	0	17.95	17.98	17.96
		50	25	17.85	17.92	17.90
		50	50	17.66	17.86	17.76
		100	0	17.88	17.96	17.94

EIRP Power (dBm)

Maximum Output Power			
Modulation	Cond. Power (dBm)	Max. EIRP (dBm)	EIRP Limit (dBm)
QPSK	22.97	23.56	33.01
16QAM	21.95	22.54	33.01
64QAM	20.87	21.46	33.01
256QAM	17.98	18.57	33.01

Note: EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

Conducted Output Power (dBm)

LTE Band 38						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		37825	38000	38175
		Frequency (MHz)		2577.5	2595	2612.5
15M	QPSK	1	0	22.77	22.75	22.83
		1	37	22.78	22.75	22.75
		1	74	22.60	22.55	22.59
		36	0	21.69	21.73	21.74
		36	19	21.68	21.72	21.66
		36	39	21.52	21.73	21.71
		75	0	21.56	21.80	21.68
15M	16QAM	1	0	21.75	21.90	21.74
		1	37	21.69	21.71	21.64
		1	74	21.49	21.61	21.54
		36	0	20.66	20.71	20.74
		36	19	20.59	20.70	20.66
		36	39	20.57	20.61	20.60
		75	0	20.68	20.71	20.75
15M	64QAM	1	0	20.65	20.84	20.65
		1	37	20.55	20.56	20.54
		1	74	20.48	20.61	20.49
		36	0	19.51	19.77	19.57
		36	19	19.59	19.69	19.58
		36	39	19.52	19.68	19.61
		75	0	19.64	19.58	19.70
15M	256QAM	1	0	17.70	17.75	17.74
		1	37	17.66	17.71	17.56
		1	74	17.47	17.61	17.54
		36	0	17.92	17.88	17.78
		36	19	17.75	17.82	17.71
		36	39	17.56	17.77	17.65
		75	0	17.79	17.80	17.82

EIRP Power (dBm)

Maximum Output Power			
Modulation	Cond. Power (dBm)	Max. EIRP (dBm)	EIRP Limit (dBm)
QPSK	22.83	23.42	33.01
16QAM	21.90	22.49	33.01
64QAM	20.84	21.43	33.01
256QAM	17.92	18.51	33.01

Note: EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

Conducted Output Power (dBm)

LTE Band 38						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		37800	38000	38200
		Frequency (MHz)		2575	2595	2615
10M	QPSK	1	0	22.79	22.78	22.68
		1	24	22.60	22.75	22.62
		1	49	22.62	22.62	22.56
		25	0	21.73	21.67	21.48
		25	12	21.67	21.72	21.53
		25	25	21.49	21.78	21.53
		50	0	21.63	21.69	21.63
10M	16QAM	1	0	21.69	21.83	21.71
		1	24	21.69	21.69	21.64
		1	49	21.38	21.68	21.54
		25	0	20.71	20.82	20.70
		25	12	20.62	20.72	20.63
		25	25	20.64	20.70	20.63
		50	0	20.61	20.85	20.65
10M	64QAM	1	0	20.71	20.70	20.69
		1	24	20.56	20.67	20.63
		1	49	20.44	20.58	20.46
		25	0	19.53	19.73	19.59
		25	12	19.55	19.72	19.56
		25	25	19.51	19.50	19.58
		50	0	19.52	19.64	19.53
10M	256QAM	1	0	17.68	17.94	17.87
		1	24	17.59	17.64	17.71
		1	49	17.52	17.53	17.57
		25	0	17.94	17.88	17.82
		25	12	17.68	17.84	17.80
		25	25	17.61	17.74	17.69
		50	0	17.81	17.93	17.84

EIRP Power (dBm)

Maximum Output Power			
Modulation	Cond. Power (dBm)	Max. EIRP (dBm)	EIRP Limit (dBm)
QPSK	22.79	23.38	33.01
16QAM	21.83	22.42	33.01
64QAM	20.71	21.30	33.01
256QAM	17.94	18.53	33.01

Note: EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

Conducted Output Power (dBm)

LTE Band 38						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		37775	38000	38225
		Frequency (MHz)		2572.5	2595	2617.5
5M	QPSK	1	0	22.77	22.91	22.81
		1	12	22.83	22.65	22.62
		1	24	22.54	22.71	22.54
		12	0	21.77	21.77	21.71
		12	6	21.62	21.76	21.47
		12	13	21.51	21.73	21.45
		25	0	21.52	21.67	21.65
5M	16QAM	1	0	21.75	21.81	21.73
		1	12	21.72	21.76	21.65
		1	24	21.38	21.57	21.54
		12	0	20.76	20.68	20.84
		12	6	20.55	20.66	20.68
		12	13	20.63	20.63	20.58
		25	0	20.62	20.74	20.74
5M	64QAM	1	0	20.69	20.72	20.66
		1	12	20.54	20.57	20.53
		1	24	20.44	20.50	20.43
		12	0	19.47	19.77	19.70
		12	6	19.43	19.67	19.64
		12	13	19.54	19.57	19.46
		25	0	19.67	19.65	19.57
5M	256QAM	1	0	17.79	17.92	17.71
		1	12	17.58	17.60	17.66
		1	24	17.64	17.62	17.51
		12	0	17.76	17.91	17.89
		12	6	17.79	17.75	17.73
		12	13	17.55	17.77	17.76
		25	0	17.81	17.82	17.83

EIRP Power (dBm)

Maximum Output Power			
Modulation	Cond. Power (dBm)	Max. EIRP (dBm)	EIRP Limit (dBm)
QPSK	22.91	23.50	33.01
16QAM	21.81	22.40	33.01
64QAM	20.72	21.31	33.01
256QAM	17.92	18.51	33.01

Note: EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

7.1.13 LTE Band 41

Conducted Output Power (dBm)

LTE Band 41						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		39750	40620	41490
		Frequency (MHz)		2506	2593	2680
20M	QPSK	1	0	25.28	25.32	25.43
		1	50	25.16	25.29	25.37
		1	99	24.92	25.08	25.24
		50	0	24.41	24.52	24.56
		50	25	24.18	24.36	24.45
		50	50	24.03	24.23	24.38
		100	0	24.25	24.37	24.45
20M	16QAM	1	0	24.29	24.42	24.55
		1	50	24.18	24.29	24.48
		1	99	24.04	24.19	24.37
		50	0	23.29	23.48	23.39
		50	25	23.26	23.30	23.23
		50	50	23.23	23.28	23.15
		100	0	23.23	23.38	23.24
20M	64QAM	1	0	23.17	23.31	23.39
		1	50	23.16	23.26	23.29
		1	99	23.08	23.18	23.08
		50	0	22.41	22.36	22.54
		50	25	22.35	22.33	22.41
		50	50	22.19	22.28	22.17
		100	0	22.22	22.35	22.26
20M	256QAM	1	0	20.29	20.44	20.03
		1	50	20.28	20.40	20.21
		1	99	20.07	20.21	20.27
		50	0	20.23	20.34	20.16
		50	25	20.01	20.16	20.23
		50	50	19.88	20.05	20.30
		100	0	20.14	20.18	20.37

EIRP Power (dBm)

Maximum Output Power			
Modulation	Cond. Power (dBm)	Max. EIRP (dBm)	EIRP Limit (dBm)
QPSK	25.43	26.80	33.01
16QAM	24.55	25.92	33.01
64QAM	23.39	24.76	33.01
256QAM	20.44	21.81	33.01

Note: EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

Conducted Output Power (dBm)

LTE Band 41						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		39725	40620	41515
		Frequency (MHz)		2503.5	2593	2682.5
15M	QPSK	1	0	24.99	25.21	25.35
		1	37	25.17	25.23	25.25
		1	74	24.81	24.94	25.16
		36	0	24.33	24.42	24.42
		36	19	24.04	24.30	24.32
		36	39	23.95	24.13	24.28
		75	0	24.12	24.23	24.35
15M	16QAM	1	0	23.99	24.22	24.34
		1	37	24.18	24.16	24.23
		1	74	23.79	24.00	24.15
		36	0	23.34	23.42	23.49
		36	19	23.10	23.26	23.30
		36	39	22.90	23.12	23.27
		75	0	23.10	23.24	23.38
15M	64QAM	1	0	22.96	23.22	23.30
		1	37	23.27	23.21	23.26
		1	74	22.86	22.96	23.18
		36	0	22.31	22.48	22.45
		36	19	22.10	22.22	22.30
		36	39	21.89	22.06	22.22
		75	0	22.14	22.26	22.35
15M	256QAM	1	0	20.16	20.32	20.41
		1	37	20.05	20.27	20.25
		1	74	19.97	20.16	20.07
		36	0	20.19	20.42	20.48
		36	19	20.12	20.19	20.32
		36	39	20.19	20.28	20.23
		75	0	20.09	20.35	20.41

EIRP Power (dBm)

Maximum Output Power			
Modulation	Cond. Power (dBm)	Max. EIRP (dBm)	EIRP Limit (dBm)
QPSK	25.35	26.72	33.01
16QAM	24.34	25.71	33.01
64QAM	23.30	24.67	33.01
256QAM	20.48	21.85	33.01

Note: EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

Conducted Output Power (dBm)

LTE Band 41						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		39700	40620	41540
		Frequency (MHz)		2501	2593	2685
10M	QPSK	1	0	25.01	25.23	25.32
		1	24	25.21	25.14	25.29
		1	49	24.85	24.94	25.05
		25	0	24.35	24.42	24.46
		25	12	24.07	24.35	24.29
		25	25	23.90	24.12	24.28
		50	0	24.16	24.31	24.34
10M	16QAM	1	0	24.07	24.26	24.32
		1	24	24.14	24.16	24.25
		1	49	23.85	23.92	24.07
		25	0	23.36	23.40	23.47
		25	12	23.06	23.32	23.30
		25	25	22.87	23.17	23.33
		50	0	23.18	23.33	23.31
10M	64QAM	1	0	23.04	23.23	23.31
		1	24	23.11	23.13	23.26
		1	49	22.80	22.89	23.14
		25	0	22.35	22.36	22.44
		25	12	22.02	22.35	22.31
		25	25	21.87	22.07	22.31
		50	0	22.15	22.30	22.34
10M	256QAM	1	0	20.19	20.30	20.38
		1	24	20.07	20.15	20.29
		1	49	19.93	20.14	20.18
		25	0	20.16	20.32	20.41
		25	12	20.17	20.22	20.34
		25	25	20.08	20.29	20.26
		50	0	20.13	20.28	20.31

EIRP Power (dBm)

Maximum Output Power			
Modulation	Cond. Power (dBm)	Max. EIRP (dBm)	EIRP Limit (dBm)
QPSK	25.32	26.69	33.01
16QAM	24.32	25.69	33.01
64QAM	23.31	24.68	33.01
256QAM	20.41	21.78	33.01

Note: EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

Conducted Output Power (dBm)

LTE Band 41						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		39675	40620	41565
		Frequency (MHz)		2498.5	2593	2687.5
5M	QPSK	1	0	25.04	25.24	25.29
		1	12	25.13	25.15	25.31
		1	24	24.89	24.96	25.17
		12	0	24.30	24.45	24.55
		12	6	24.01	24.27	24.31
		12	13	23.98	24.08	24.24
		25	0	24.18	24.29	24.25
5M	16QAM	1	0	24.03	24.27	24.32
		1	12	24.18	24.17	24.33
		1	24	23.83	23.93	24.11
		12	0	23.32	23.46	23.53
		12	6	23.08	23.26	23.38
		12	13	22.99	23.08	23.21
		25	0	23.19	23.27	23.31
5M	64QAM	1	0	23.00	23.32	23.28
		1	12	23.20	23.16	23.30
		1	24	22.83	22.94	23.12
		12	0	22.34	22.37	22.54
		12	6	22.08	22.31	22.37
		12	13	21.97	22.15	22.24
		25	0	22.12	22.26	22.34
5M	256QAM	1	0	20.12	20.29	20.33
		1	12	20.09	20.18	20.25
		1	24	19.97	20.06	20.15
		12	0	20.16	20.35	20.50
		12	6	20.22	20.18	20.43
		12	13	20.19	20.29	20.31
		25	0	20.16	20.29	20.29

EIRP Power (dBm)

Maximum Output Power			
Modulation	Cond. Power (dBm)	Max. EIRP (dBm)	EIRP Limit (dBm)
QPSK	25.31	26.68	33.01
16QAM	24.33	25.70	33.01
64QAM	23.32	24.69	33.01
256QAM	20.50	21.87	33.01

Note: EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

7.1.14 LTE Band 42

Conducted Output Power (dBm)

LTE Band 42						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		42190	42590	42990
		Frequency (MHz)		3460	3500	3540
20M	QPSK	1	0	19.30	19.32	19.24
		1	50	19.19	19.21	19.24
		1	99	19.07	19.23	19.23
		50	0	18.23	18.33	18.21
		50	25	18.12	18.14	18.15
		50	50	18.12	18.11	18.08
		100	0	18.15	18.21	18.19
20M	16QAM	1	0	18.33	18.35	18.24
		1	50	18.16	18.25	18.27
		1	99	18.15	18.26	18.23
		50	0	17.33	17.33	17.32
		50	25	17.18	17.22	17.11
		50	50	17.13	17.15	17.12
		100	0	17.25	17.33	17.23
20M	64QAM	1	0	17.21	17.33	17.27
		1	50	17.12	17.24	17.21
		1	99	17.04	17.12	17.17
		50	0	16.36	16.32	16.34
		50	25	16.16	16.27	16.11
		50	50	16.16	16.16	16.18
		100	0	16.31	16.28	16.27
20M	256QAM	1	0	14.18	14.26	14.33
		1	50	13.96	14.12	14.18
		1	99	13.92	14.11	14.16
		50	0	14.07	14.21	14.24
		50	25	13.97	14.07	14.16
		50	50	13.89	14.07	14.08
		100	0	14.08	14.26	14.22

EIRP Power (dBm)

Maximum Output Power			
Modulation	Cond. Power (dBm)	EIRP (dBm)	EIRP Limit (dBm)
QPSK	19.32	20.02	30.0
16QAM	18.35	19.05	30.0
64QAM	17.33	18.03	30.0
256QAM	14.33	15.03	30.0

Note: EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

Conducted Output Power (dBm)

LTE Band 42						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		42165	42590	43015
		Frequency (MHz)		3457.5	3500	3542.5
15M	QPSK	1	0	19.28	19.29	19.11
		1	37	19.19	19.07	19.16
		1	74	18.99	19.14	19.18
		36	0	18.18	18.21	18.21
		36	19	18.03	18.05	18.07
		36	39	17.99	18.00	18.07
		75	0	18.03	18.11	18.10
15M	16QAM	1	0	18.22	18.20	18.17
		1	37	18.05	18.22	18.23
		1	74	18.04	18.14	18.18
		36	0	17.22	17.28	17.25
		36	19	17.10	17.16	17.05
		36	39	16.98	17.12	16.97
		75	0	17.18	17.33	17.20
15M	64QAM	1	0	17.12	17.22	17.16
		1	37	17.06	17.17	17.06
		1	74	16.95	17.12	17.08
		36	0	16.32	16.29	16.24
		36	19	16.02	16.14	16.01
		36	39	16.16	16.02	16.06
		75	0	16.16	16.24	16.22
15M	256QAM	1	0	14.14	14.20	14.21
		1	37	13.91	14.04	14.09
		1	74	13.88	14.05	14.14
		36	0	14.05	14.13	14.21
		36	19	13.86	14.01	14.06
		36	39	13.80	14.01	13.94
		75	0	14.04	14.17	14.18

EIRP Power (dBm)

Maximum Output Power			
Modulation	Cond. Power (dBm)	EIRP (dBm)	EIRP Limit (dBm)
QPSK	19.29	19.99	30.0
16QAM	18.23	18.93	30.0
64QAM	17.22	17.92	30.0
256QAM	14.21	14.91	30.0

Note: EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

Conducted Output Power (dBm)

LTE Band 42						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		42140	42590	43040
		Frequency (MHz)		3455	3500	3545
10M	QPSK	1	0	19.28	19.17	19.01
		1	24	19.05	19.00	19.06
		1	49	18.98	19.03	19.03
		25	0	18.09	18.16	18.06
		25	12	18.00	17.92	18.00
		25	25	17.95	17.98	18.02
		50	0	17.99	18.02	18.02
10M	16QAM	1	0	18.21	18.20	18.15
		1	24	18.01	18.10	18.22
		1	49	17.99	18.03	18.03
		25	0	17.13	17.23	17.13
		25	12	16.99	17.16	16.93
		25	25	16.98	16.98	16.90
		50	0	17.06	17.32	17.19
10M	64QAM	1	0	17.02	17.13	17.13
		1	24	17.02	17.14	16.98
		1	49	16.88	17.09	16.95
		25	0	16.28	16.26	16.20
		25	12	15.87	16.13	15.92
		25	25	16.12	15.97	15.94
		50	0	16.10	16.21	16.10
10M	256QAM	1	0	14.10	14.17	14.19
		1	24	13.81	14.02	14.01
		1	49	13.85	14.03	14.14
		25	0	13.95	13.99	14.10
		25	12	13.78	13.89	13.98
		25	25	13.80	13.86	13.89
		50	0	14.04	14.14	14.03

EIRP Power (dBm)

Maximum Output Power			
Modulation	Cond. Power (dBm)	EIRP (dBm)	EIRP Limit (dBm)
QPSK	19.28	19.98	30.0
16QAM	18.22	18.92	30.0
64QAM	17.14	17.84	30.0
256QAM	14.19	14.89	30.0

Note: EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

Conducted Output Power (dBm)

LTE Band 42						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		42115	42590	43065
		Frequency (MHz)		3452.5	3500	3547.5
5M	QPSK	1	0	19.14	19.05	19.01
		1	12	18.97	18.86	19.01
		1	24	18.84	18.94	18.89
		12	0	17.98	18.04	17.94
		12	6	17.91	17.84	17.94
		12	13	17.90	17.85	17.93
		25	0	17.87	17.97	17.88
5M	16QAM	1	0	18.21	18.11	18.10
		1	12	17.93	18.00	18.17
		1	24	17.92	17.97	17.97
		12	0	17.09	17.20	17.07
		12	6	16.91	17.10	16.90
		12	13	16.94	16.94	16.89
		25	0	17.06	17.24	17.10
5M	64QAM	1	0	16.91	16.99	17.03
		1	12	16.97	17.00	16.83
		1	24	16.86	16.99	16.85
		12	0	16.13	16.17	16.19
		12	6	15.87	16.08	15.85
		12	13	15.98	15.82	15.85
		25	0	16.08	16.06	15.99
5M	256QAM	1	0	13.99	14.10	14.18
		1	12	13.78	13.87	13.89
		1	24	13.74	14.01	14.13
		12	0	13.95	13.86	14.04
		12	6	13.66	13.75	13.93
		12	13	13.70	13.86	13.85
		25	0	14.03	14.10	13.97

EIRP Power (dBm)

Maximum Output Power			
Modulation	Cond. Power (dBm)	EIRP (dBm)	EIRP Limit (dBm)
QPSK	19.14	19.84	30.0
16QAM	18.21	18.91	30.0
64QAM	17.03	17.73	30.0
256QAM	14.18	14.88	30.0

Note: EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

7.1.15 LTE Band 66

Conducted Output Power (dBm)

LTE Band 66						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		132072	132322	132572
		Frequency (MHz)		1720	1745	1770
20M	QPSK	1	0	22.79	22.69	22.61
		1	50	22.54	22.57	22.56
		1	99	22.58	22.52	22.51
		50	0	21.69	21.67	21.58
		50	25	21.58	21.55	21.50
		50	50	21.46	21.40	21.32
		100	0	21.62	21.53	21.45
20M	16QAM	1	0	22.06	22.05	22.05
		1	50	21.94	21.87	21.77
		1	99	21.82	21.79	21.68
		50	0	20.76	20.70	20.68
		50	25	20.72	20.67	20.58
		50	50	20.57	20.49	20.45
		100	0	20.63	20.55	20.53
20M	64QAM	1	0	20.94	20.85	20.78
		1	50	20.76	20.69	20.65
		1	99	20.61	20.52	20.47
		50	0	19.60	19.51	19.46
		50	25	19.51	19.43	19.47
		50	50	19.43	19.33	19.37
		100	0	19.66	19.58	19.55
20M	256QAM	1	0	18.13	18.07	18.01
		1	50	17.96	17.86	17.85
		1	99	17.72	17.67	17.66
		50	0	17.68	17.65	17.64
		50	25	17.61	17.53	17.48
		50	50	17.53	17.52	17.47
		100	0	17.76	17.71	17.62

EIRP Power (dBm)

Maximum Output Power			
Modulation	Cond. Power (dBm)	Max. EIRP (dBm)	EIRP Limit (dBm)
QPSK	22.79	25.09	30
16QAM	22.06	24.36	30
64QAM	20.94	23.24	30
256QAM	18.13	20.43	30

Note: EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

Conducted Output Power (dBm)

LTE Band 66						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		132047	132322	132597
		Frequency (MHz)		1717.5	1745	1772.5
15M	QPSK	1	0	22.74	22.60	22.50
		1	37	22.42	22.47	22.45
		1	74	22.51	22.44	22.41
		36	0	21.55	21.47	21.49
		36	19	21.40	21.47	21.39
		36	39	21.32	21.32	21.18
		75	0	21.48	21.42	21.40
15M	16QAM	1	0	22.03	22.00	22.03
		1	37	21.77	21.78	21.75
		1	74	21.68	21.64	21.69
		36	0	20.68	20.63	20.64
		36	19	20.58	20.51	20.48
		36	39	20.39	20.33	20.41
		75	0	20.54	20.46	20.40
15M	64QAM	1	0	20.85	20.76	20.75
		1	37	20.64	20.60	20.58
		1	74	20.46	20.42	20.31
		36	0	19.46	19.45	19.40
		36	19	19.36	19.34	19.30
		36	39	19.34	19.14	19.22
		75	0	19.51	19.43	19.41
15M	256QAM	1	0	18.05	18.04	17.95
		1	37	17.89	17.83	17.82
		1	74	17.71	17.55	17.57
		36	0	17.68	17.60	17.64
		36	19	17.54	17.51	17.42
		36	39	17.53	17.49	17.42
		75	0	17.74	17.61	17.57

EIRP Power (dBm)

Maximum Output Power			
Modulation	Cond. Power (dBm)	Max. EIRP (dBm)	EIRP Limit (dBm)
QPSK	22.74	25.04	30
16QAM	22.03	24.33	30
64QAM	20.85	23.15	30
256QAM	18.05	20.35	30

Note: EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

Conducted Output Power (dBm)

LTE Band 66						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		132022	132322	132622
		Frequency (MHz)		1715	1745	1775
10M	QPSK	1	0	22.70	22.56	22.49
		1	24	22.37	22.40	22.33
		1	49	22.39	22.45	22.37
		25	0	21.65	21.46	21.58
		25	12	21.51	21.42	21.36
		25	25	21.26	21.29	21.28
		50	0	21.55	21.44	21.34
10M	16QAM	1	0	22.01	21.85	21.86
		1	24	21.92	21.73	21.65
		1	49	21.64	21.72	21.72
		25	0	20.61	20.56	20.61
		25	12	20.60	20.61	20.55
		25	25	20.54	20.34	20.41
		50	0	20.51	20.47	20.41
10M	64QAM	1	0	20.83	20.74	20.64
		1	24	20.59	20.64	20.50
		1	49	20.54	20.50	20.38
		25	0	19.49	19.37	19.30
		25	12	19.32	19.37	19.31
		25	25	19.41	19.22	19.17
		50	0	19.56	19.39	19.47
10M	256QAM	1	0	18.10	18.02	18.00
		1	24	17.96	17.78	17.85
		1	49	17.66	17.60	17.64
		25	0	17.60	17.57	17.64
		25	12	17.54	17.49	17.47
		25	25	17.52	17.43	17.40
		50	0	17.71	17.61	17.59

EIRP Power (dBm)

Maximum Output Power			
Modulation	Cond. Power (dBm)	Max. EIRP (dBm)	EIRP Limit (dBm)
QPSK	22.70	25.00	30
16QAM	22.01	24.31	30
64QAM	20.83	23.13	30
256QAM	18.10	20.40	30

Note: EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

Conducted Output Power (dBm)

LTE Band 66						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		131997	132322	132647
		Frequency (MHz)		1712.5	1745	1777.5
5M	QPSK	1	0	22.70	22.64	22.61
		1	12	22.44	22.37	22.28
		1	24	22.39	22.40	22.33
		12	0	21.64	21.51	21.46
		12	6	21.52	21.37	21.30
		12	13	21.33	21.30	21.31
		25	0	21.39	21.37	21.26
5M	16QAM	1	0	21.92	21.90	21.95
		1	12	21.80	21.70	21.73
		1	24	21.70	21.63	21.59
		12	0	20.66	20.65	20.43
		12	6	20.64	20.55	20.39
		12	13	20.45	20.38	20.27
		25	0	20.49	20.41	20.42
5M	64QAM	1	0	20.82	20.73	20.68
		1	12	20.71	20.57	20.47
		1	24	20.46	20.39	20.36
		12	0	19.47	19.46	19.31
		12	6	19.43	19.42	19.32
		12	13	19.30	19.16	19.21
		25	0	19.54	19.46	19.49
5M	256QAM	1	0	18.06	18.04	17.93
		1	12	17.88	17.79	17.75
		1	24	17.71	17.56	17.61
		12	0	17.61	17.58	17.64
		12	6	17.57	17.47	17.46
		12	13	17.52	17.43	17.41
		25	0	17.72	17.71	17.62

EIRP Power (dBm)

Maximum Output Power			
Modulation	Cond. Power (dBm)	Max. EIRP (dBm)	EIRP Limit (dBm)
QPSK	22.70	25.00	30
16QAM	21.95	24.25	30
64QAM	20.82	23.12	30
256QAM	18.06	20.36	30

Note: EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

Conducted Output Power (dBm)

LTE Band 66						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		131987	132322	132657
		Frequency (MHz)		1711.5	1745	1778.5
3M	QPSK	1	0	22.78	22.60	22.44
		1	7	22.40	22.39	22.33
		1	14	22.48	22.37	22.38
		8	0	21.63	21.52	21.46
		8	3	21.50	21.41	21.39
		8	7	21.33	21.27	21.21
		15	0	21.48	21.36	21.37
3M	16QAM	1	0	21.98	21.97	21.95
		1	7	21.86	21.71	21.68
		1	14	21.71	21.69	21.61
		8	0	20.68	20.62	20.60
		8	3	20.55	20.61	20.42
		8	7	20.37	20.35	20.35
		15	0	20.45	20.37	20.49
3M	64QAM	1	0	20.84	20.67	20.66
		1	7	20.63	20.59	20.54
		1	14	20.45	20.35	20.32
		8	0	19.48	19.36	19.23
		8	3	19.35	19.42	19.46
		8	7	19.25	19.14	19.28
		15	0	19.64	19.43	19.43
3M	256QAM	1	0	18.08	17.99	18.01
		1	7	17.87	17.85	17.75
		1	14	17.65	17.61	17.58
		8	0	17.68	17.63	17.63
		8	3	17.55	17.49	17.47
		8	7	17.43	17.44	17.43
		15	0	17.74	17.69	17.58

EIRP Power (dBm)

Maximum Output Power			
Modulation	Cond. Power (dBm)	Max. EIRP (dBm)	EIRP Limit (dBm)
QPSK	22.78	25.08	30
16QAM	21.98	24.28	30
64QAM	20.84	23.14	30
256QAM	18.08	20.38	30

Note: EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

Conducted Output Power (dBm)

LTE Band 66						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		131979	132322	132665
		Frequency (MHz)		1710.7	1745	1779.3
1.4M	QPSK	1	0	22.59	22.57	22.39
		1	2	22.36	22.31	22.33
		1	5	22.51	22.42	22.38
		3	0	22.61	22.63	22.50
		3	1	22.36	22.46	22.40
		3	3	22.35	22.36	22.21
		6	0	21.44	21.31	21.40
1.4M	16QAM	1	0	22.02	21.85	21.97
		1	2	21.80	21.68	21.56
		1	5	21.73	21.63	21.68
		3	0	21.65	21.63	21.55
		3	1	21.63	21.59	21.43
		3	3	21.40	21.30	21.35
		6	0	20.53	20.38	20.38
1.4M	64QAM	1	0	20.89	20.68	20.72
		1	2	20.53	20.61	20.42
		1	5	20.44	20.30	20.42
		3	0	20.53	20.44	20.37
		3	1	20.34	20.43	20.36
		3	3	20.31	20.18	20.25
		6	0	19.47	19.50	19.46
1.4M	256QAM	1	0	18.09	18.05	17.99
		1	2	17.90	17.81	17.79
		1	5	17.64	17.62	17.62
		3	0	17.62	17.57	17.66
		3	1	17.54	17.45	17.42
		3	3	17.45	17.49	17.42
		6	0	17.76	17.70	17.54

EIRP Power (dBm)

Maximum Output Power			
Modulation	Cond. Power (dBm)	Max. EIRP (dBm)	EIRP Limit (dBm)
QPSK	22.63	24.93	30
16QAM	22.02	24.32	30
64QAM	20.89	23.19	30
256QAM	18.09	20.39	30

Note: EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

7.1.16 LTE Band 71

Conducted Output Power (dBm)

LTE Band 71						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		133222	133297	133372
		Frequency (MHz)		673	680.5	688
20M	QPSK	1	0	23.25	23.21	23.19
		1	50	23.12	23.04	22.99
		1	99	23.02	23.00	22.92
		50	0	22.35	22.32	22.24
		50	25	22.29	22.20	22.12
		50	50	22.21	22.11	22.07
		100	0	22.32	22.29	22.21
20M	16QAM	1	0	22.43	22.39	22.35
		1	50	22.32	22.26	22.24
		1	99	22.22	22.17	22.09
		50	0	21.35	21.31	21.30
		50	25	21.32	21.23	21.14
		50	50	21.15	21.06	21.05
		100	0	21.32	21.24	21.20
20M	64QAM	1	0	21.43	21.38	21.31
		1	50	21.36	21.32	21.28
		1	99	21.28	21.19	21.12
		50	0	20.34	20.25	20.17
		50	25	20.26	20.22	20.23
		50	50	20.18	20.12	20.09
		100	0	20.33	20.23	20.20
20M	256QAM	1	0	18.62	18.57	18.53
		1	50	18.53	18.48	18.37
		1	99	18.49	18.46	18.41
		50	0	18.44	18.42	18.36
		50	25	18.36	18.27	18.26
		50	50	18.29	18.21	18.19
		100	0	18.34	18.27	18.19

ERP Power (dBm)

Maximum Output Power			
Modulation	Cond. Power (dBm)	ERP (dBm)	ERP Limit (dBm)
QPSK	23.25	23.99	34.8
16QAM	22.43	23.17	34.8
64QAM	21.43	22.17	34.8
256QAM	18.62	19.36	34.8

Note:

EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

ERP (dBm) = EIRP (dBm) - 2.15

Conducted Output Power (dBm)

LTE Band 71						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		133197	133297	133397
		Frequency (MHz)		670.5	680.5	690.5
15M	QPSK	1	0	23.08	23.08	23.08
		1	37	23.03	22.92	22.83
		1	74	22.87	22.81	22.71
		36	0	22.26	22.19	22.08
		36	19	22.19	22.10	21.90
		36	39	22.03	21.93	21.94
		75	0	22.24	22.16	21.99
15M	16QAM	1	0	22.35	22.30	22.19
		1	37	22.18	22.13	22.18
		1	74	22.10	22.00	21.96
		36	0	21.19	21.24	21.10
		36	19	21.28	21.06	20.89
		36	39	21.12	20.97	21.01
		75	0	21.20	21.23	21.05
15M	64QAM	1	0	21.30	21.18	21.08
		1	37	21.24	21.19	21.16
		1	74	21.20	21.04	20.92
		36	0	20.26	20.07	20.03
		36	19	20.14	20.11	20.04
		36	39	20.04	20.01	19.91
		75	0	20.25	20.12	20.08
15M	256QAM	1	0	18.59	18.48	18.50
		1	37	18.51	18.42	18.27
		1	74	18.41	18.41	18.32
		36	0	18.35	18.40	18.27
		36	19	18.34	18.20	18.19
		36	39	18.21	18.20	18.09
		75	0	18.34	18.19	18.17

ERP Power (dBm)

Maximum Output Power			
Modulation	Cond. Power (dBm)	ERP (dBm)	ERP Limit (dBm)
QPSK	23.08	23.82	34.8
16QAM	22.35	23.09	34.8
64QAM	21.30	22.04	34.8
256QAM	18.59	19.33	34.8

Note:

EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

ERP (dBm) = EIRP (dBm) - 2.15

Conducted Output Power (dBm)

LTE Band 71						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		133172	133297	133422
		Frequency (MHz)		668	680.5	693
10M	QPSK	1	0	23.06	23.04	23.06
		1	24	22.97	22.99	22.83
		1	49	22.80	22.85	22.79
		25	0	22.17	22.28	22.14
		25	12	22.17	22.13	22.03
		25	25	22.10	21.96	21.99
		50	0	22.27	22.22	22.00
10M	16QAM	1	0	22.33	22.24	22.23
		1	24	22.14	22.11	22.11
		1	49	22.17	21.97	21.90
		25	0	21.22	21.14	21.16
		25	12	21.32	21.19	21.09
		25	25	21.04	20.97	20.93
		50	0	21.29	21.13	21.06
10M	64QAM	1	0	21.28	21.33	21.22
		1	24	21.23	21.17	21.27
		1	49	21.14	21.08	21.09
		25	0	20.20	20.18	20.06
		25	12	20.11	20.15	20.04
		25	25	20.08	20.10	19.97
		50	0	20.28	20.10	20.06
10M	256QAM	1	0	18.59	18.48	18.52
		1	24	18.48	18.40	18.34
		1	49	18.43	18.41	18.32
		25	0	18.36	18.35	18.34
		25	12	18.29	18.26	18.17
		25	25	18.20	18.14	18.15
		50	0	18.26	18.18	18.16

ERP Power (dBm)

Maximum Output Power			
Modulation	Cond. Power (dBm)	ERP (dBm)	ERP Limit (dBm)
QPSK	23.06	23.80	34.8
16QAM	22.33	23.07	34.8
64QAM	21.33	22.07	34.8
256QAM	18.59	19.33	34.8

Note:

EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

ERP (dBm) = EIRP (dBm) - 2.15

Conducted Output Power (dBm)

LTE Band 71						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		133147	133297	133447
		Frequency (MHz)		665.5	680.5	695.5
5M	QPSK	1	0	23.20	23.14	23.05
		1	12	23.03	22.92	22.88
		1	24	22.87	22.82	22.82
		12	0	22.31	22.15	22.17
		12	6	22.18	22.05	22.06
		12	13	22.03	21.95	21.87
		25	0	22.18	22.26	22.10
5M	16QAM	1	0	22.41	22.18	22.28
		1	12	22.11	22.02	22.22
		1	24	22.15	22.05	21.95
		12	0	21.27	21.17	21.25
		12	6	21.20	21.15	21.06
		12	13	21.04	20.89	20.85
		25	0	21.23	21.16	21.08
5M	64QAM	1	0	21.31	21.25	21.10
		1	12	21.23	21.12	21.29
		1	24	21.24	21.07	21.01
		12	0	20.28	20.10	20.04
		12	6	20.11	20.12	20.17
		12	13	20.06	19.97	20.05
		25	0	20.30	20.06	20.01
5M	256QAM	1	0	18.60	18.48	18.44
		1	12	18.50	18.44	18.36
		1	24	18.43	18.39	18.35
		12	0	18.44	18.42	18.33
		12	6	18.30	18.25	18.23
		12	13	18.28	18.11	18.13
		25	0	18.30	18.27	18.09

ERP Power (dBm)

Maximum Output Power			
Modulation	Cond. Power (dBm)	ERP (dBm)	ERP Limit (dBm)
QPSK	23.20	23.94	34.8
16QAM	22.41	23.15	34.8
64QAM	21.31	22.05	34.8
256QAM	18.60	19.34	34.8

Note:

EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

ERP (dBm) = EIRP (dBm) - 2.15

7.2 Radiated Spurious Emissions below 1GHz

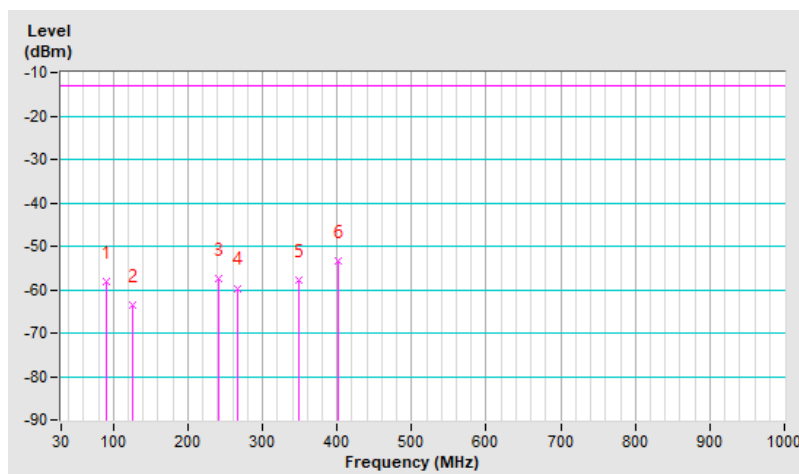
7.2.1 LTE Band 2

RF Mode	LTE Band 2 Channel Bandwidth: 20MHz	Channel	CH 18700 : 1860 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Luis Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	90.45	-58.05	-13.00	-45.05	1.50 H	317	51.57	-109.62
2	125.59	-63.65	-13.00	-50.65	1.01 H	30	41.98	-105.63
3	240.87	-57.46	-13.00	-44.46	1.50 H	12	47.47	-104.93
4	267.58	-59.66	-13.00	-46.66	1.01 H	19	44.03	-103.69
5	349.12	-57.84	-13.00	-44.84	1.50 H	191	44.19	-102.03
6	402.54	-53.41	-13.00	-40.41	1.01 H	14	47.64	-101.05

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. $Margin\ value = EIRP - Limit\ value$
4. The other EIRP levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.

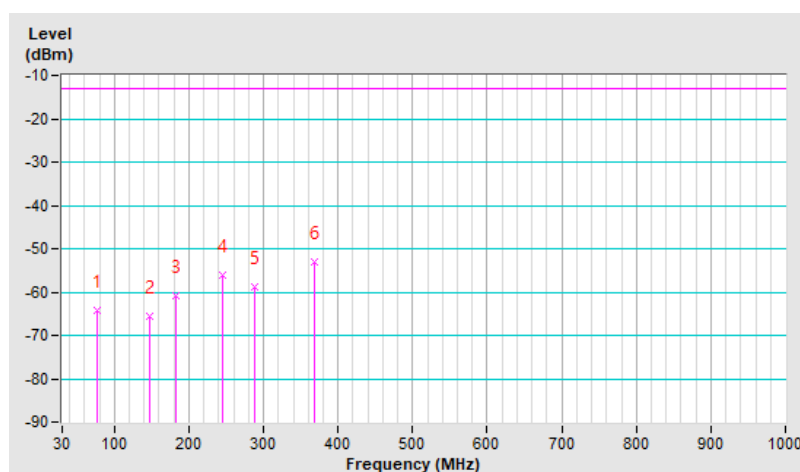


RF Mode	LTE Band 2 Channel Bandwidth: 20MHz	Channel	CH 18700 : 1860 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Luis Lee		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	77.80	-64.37	-13.00	-51.37	1.49 V	261	43.32	-107.69
2	146.68	-65.54	-13.00	-52.54	1.49 V	173	38.37	-103.91
3	181.83	-60.92	-13.00	-47.92	1.49 V	12	44.57	-105.49
4	245.09	-56.21	-13.00	-43.21	1.49 V	12	48.50	-104.71
5	287.26	-58.93	-13.00	-45.93	1.49 V	357	44.14	-103.07
6	368.80	-53.13	-13.00	-40.13	1.49 V	12	48.27	-101.40

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. $Margin\ value = EIRP - Limit\ value$
4. The other EIRP levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.



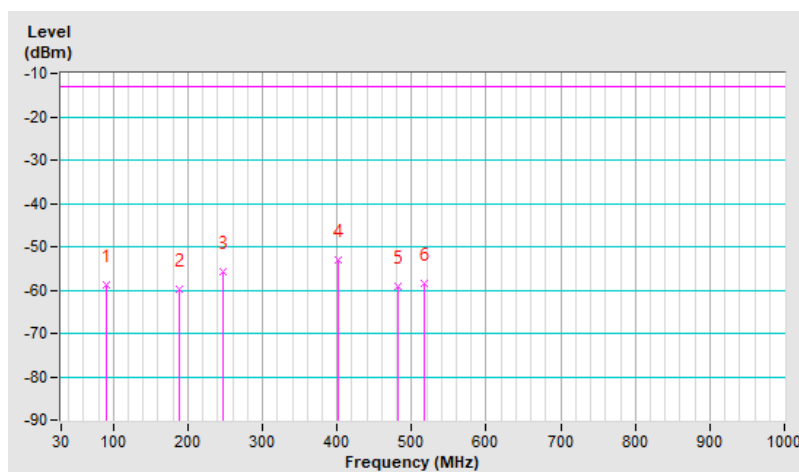
7.2.2 LTE Band 4

RF Mode	LTE Band 4 Channel Bandwidth: 20MHz	Channel	CH 20050 : 1720 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Luis Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	90.45	-58.78	-13.00	-45.78	1.00 H	221	50.84	-109.62
2	187.45	-59.87	-13.00	-46.87	1.00 H	345	46.31	-106.18
3	246.49	-55.67	-13.00	-42.67	1.49 H	30	48.98	-104.65
4	401.13	-53.11	-13.00	-40.11	1.49 H	19	47.96	-101.07
5	482.67	-59.19	-13.00	-46.19	1.49 H	177	40.29	-99.48
6	517.81	-58.61	-13.00	-45.61	1.49 H	19	40.20	-98.81

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. $Margin\ value = EIRP - Limit\ value$
4. The other EIRP levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.

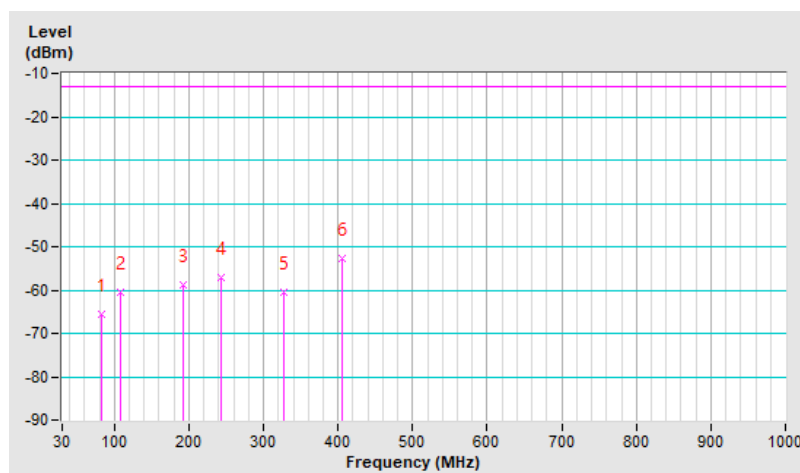


RF Mode	LTE Band 4 Channel Bandwidth: 20MHz	Channel	CH 20050 : 1720 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Luis Lee		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	82.01	-65.44	-13.00	-52.44	1.50 V	217	43.34	-108.78
2	107.32	-60.36	-13.00	-47.36	1.50 V	309	46.90	-107.26
3	193.07	-58.97	-13.00	-45.97	1.01 V	259	47.68	-106.65
4	242.28	-57.04	-13.00	-44.04	1.01 V	18	47.82	-104.86
5	326.62	-60.48	-13.00	-47.48	1.50 V	197	41.61	-102.09
6	405.35	-52.77	-13.00	-39.77	1.01 V	13	48.25	-101.02

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. $Margin\ value = EIRP - Limit\ value$
4. The other EIRP levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.



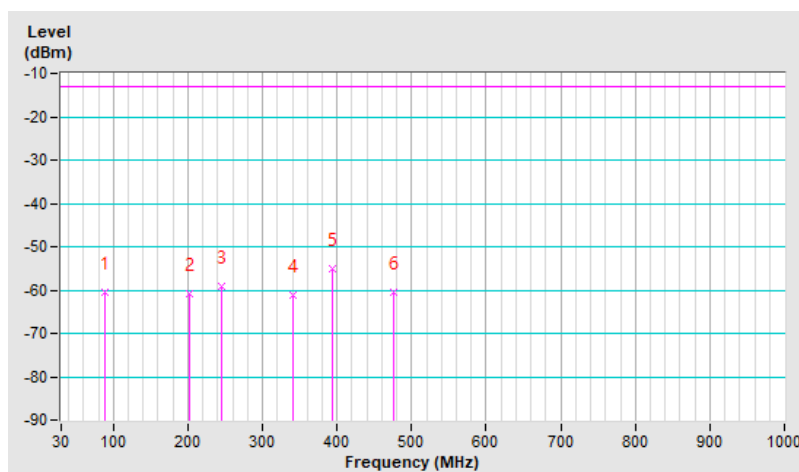
7.2.3 LTE Band 5

RF Mode	LTE Band 5 Channel Bandwidth: 10MHz	Channel	CH 20450 : 829 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Luis Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	89.04	-60.38	-13.00	-47.38	1.01 H	225	51.32	-111.70
2	201.51	-60.95	-13.00	-47.95	1.01 H	106	48.02	-108.97
3	245.09	-59.03	-13.00	-46.03	1.49 H	5	47.83	-106.86
4	340.68	-61.15	-13.00	-48.15	1.49 H	167	43.10	-104.25
5	394.10	-55.24	-13.00	-42.24	1.01 H	19	48.02	-103.26
6	475.64	-60.55	-13.00	-47.55	1.01 H	5	41.14	-101.69

Remarks:

1. $ERP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8 - 2.15$
3. $Margin\ value = ERP - Limit\ value$
4. The other ERP levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.

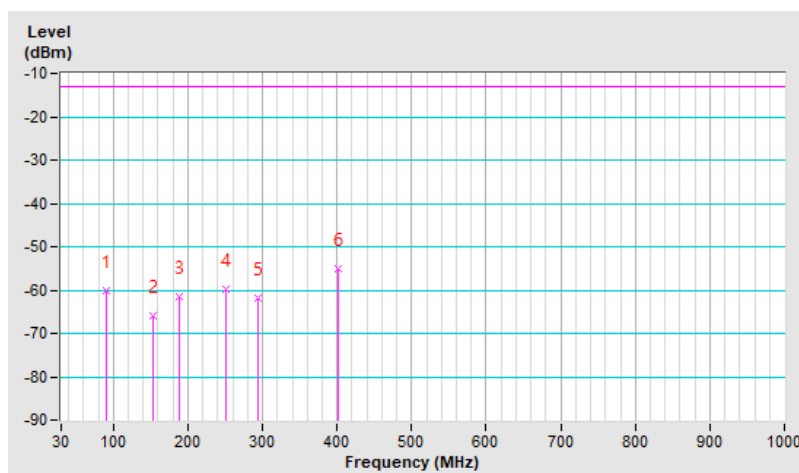


RF Mode	LTE Band 5 Channel Bandwidth: 10MHz	Channel	CH 20450 : 829 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Luis Lee		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	90.45	-60.26	-13.00	-47.26	1.00 V	256	51.51	-111.77
2	153.71	-65.95	-13.00	-52.95	1.00 V	196	39.94	-105.89
3	187.45	-61.49	-13.00	-48.49	1.00 V	123	46.84	-108.33
4	250.71	-59.99	-13.00	-46.99	1.49 V	1	46.66	-106.65
5	294.29	-61.78	-13.00	-48.78	1.49 V	18	43.32	-105.10
6	401.13	-55.02	-13.00	-42.02	1.49 V	18	48.20	-103.22

Remarks:

1. $ERP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8 - 2.15$
3. $Margin\ value = ERP - Limit\ value$
4. The other ERP levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.



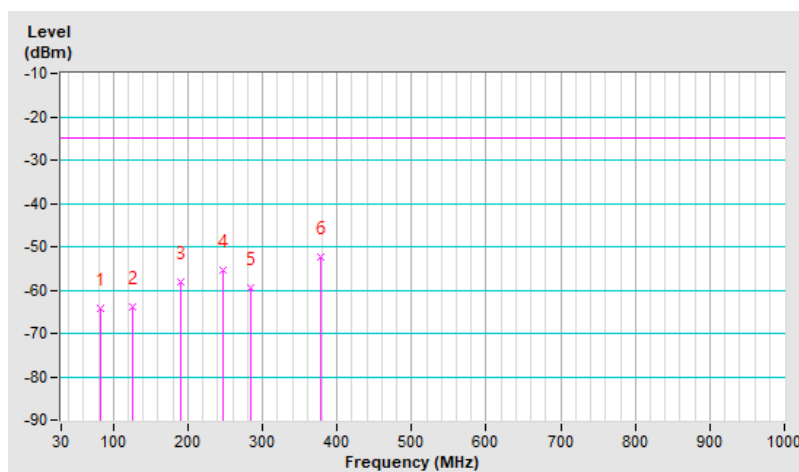
7.2.4 LTE Band 7

RF Mode	LTE Band 7 Channel Bandwidth: 20MHz	Channel	CH 21100 : 2535 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Luis Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	83.42	-64.20	-25.00	-39.20	1.49 H	309	44.87	-109.07
2	125.59	-63.80	-25.00	-38.80	1.00 H	235	41.83	-105.63
3	190.26	-58.26	-25.00	-33.26	1.49 H	319	48.21	-106.47
4	247.90	-55.41	-25.00	-30.41	1.49 H	5	49.19	-104.60
5	284.45	-59.45	-25.00	-34.45	1.49 H	20	43.64	-103.09
6	377.23	-52.31	-25.00	-27.31	1.49 H	19	48.96	-101.27

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. $Margin\ value = EIRP - Limit\ value$
4. The other EIRP levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.

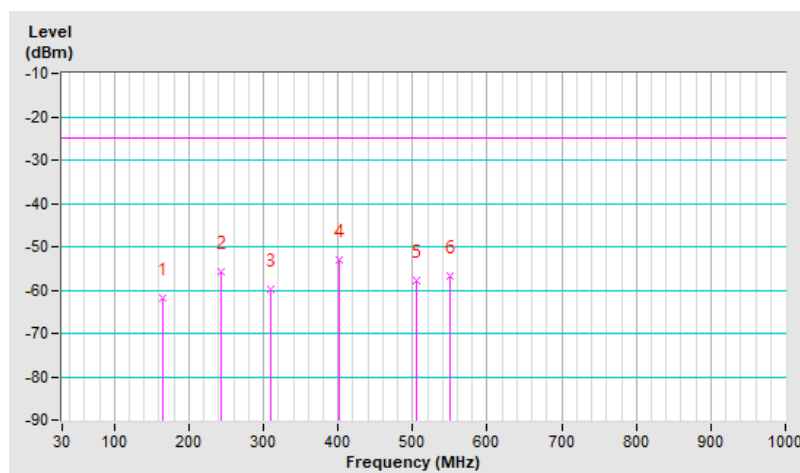


RF Mode	LTE Band 7 Channel Bandwidth: 20MHz	Channel	CH 21100 : 2535 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Luis Lee		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	164.96	-61.82	-25.00	-36.82	1.01 V	5	42.16	-103.98
2	242.28	-55.71	-25.00	-30.71	1.01 V	18	49.15	-104.86
3	309.75	-59.91	-25.00	-34.91	1.50 V	6	42.55	-102.46
4	402.54	-53.22	-25.00	-28.22	1.01 V	2	47.83	-101.05
5	505.16	-57.70	-25.00	-32.70	1.01 V	328	41.32	-99.02
6	550.14	-56.71	-25.00	-31.71	1.01 V	312	41.55	-98.26

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. $Margin\ value = EIRP - Limit\ value$
4. The other EIRP levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.



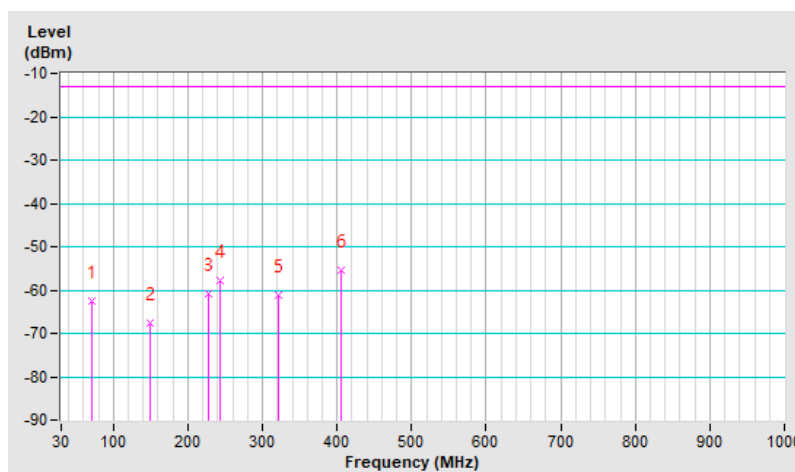
7.2.5 LTE Band 12

RF Mode	LTE Band 12 Channel Bandwidth: 10MHz	Channel	CH 23060 : 704 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Luis Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	70.77	-62.38	-13.00	-49.38	1.50 H	91	45.82	-108.20
2	149.49	-67.66	-13.00	-54.66	1.01 H	18	38.34	-106.00
3	228.22	-60.86	-13.00	-47.86	1.01 H	18	47.70	-108.56
4	242.28	-57.73	-13.00	-44.73	1.50 H	48	49.28	-107.01
5	321.00	-61.34	-13.00	-48.34	1.50 H	5	42.99	-104.33
6	405.35	-55.41	-13.00	-42.41	1.01 H	30	47.76	-103.17

Remarks:

- ERP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
- Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
+ 20log(D) – 104.8 – 2.15
- Margin value = ERP – Limit value
- The other ERP levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
- The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.

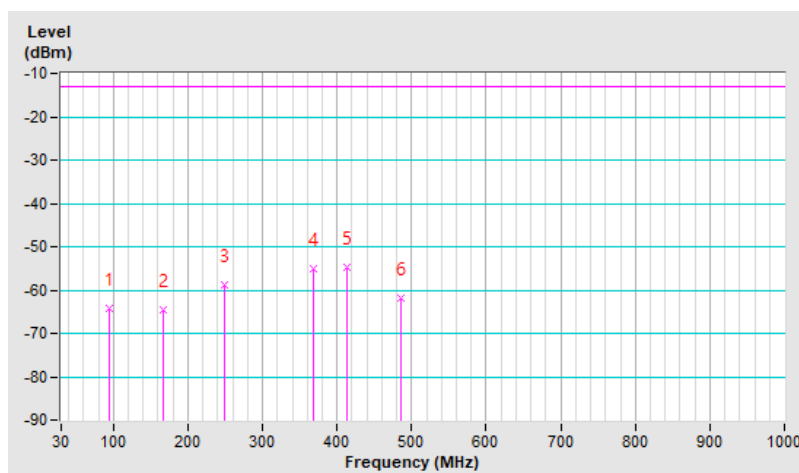


RF Mode	LTE Band 12 Channel Bandwidth: 10MHz	Channel	CH 23060 : 704 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Luis Lee		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	94.67	-64.25	-13.00	-51.25	1.49 V	56	47.13	-111.38
2	166.36	-64.58	-13.00	-51.58	1.00 V	64	41.57	-106.15
3	249.30	-58.93	-13.00	-45.93	1.49 V	4	47.76	-106.69
4	367.39	-55.12	-13.00	-42.12	1.49 V	3	48.47	-103.59
5	412.38	-54.60	-13.00	-41.60	1.49 V	18	48.47	-103.07
6	485.48	-61.84	-13.00	-48.84	1.00 V	6	39.75	-101.59

Remarks:

1. $ERP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8 - 2.15$
3. $Margin\ value = ERP - Limit\ value$
4. The other ERP levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.



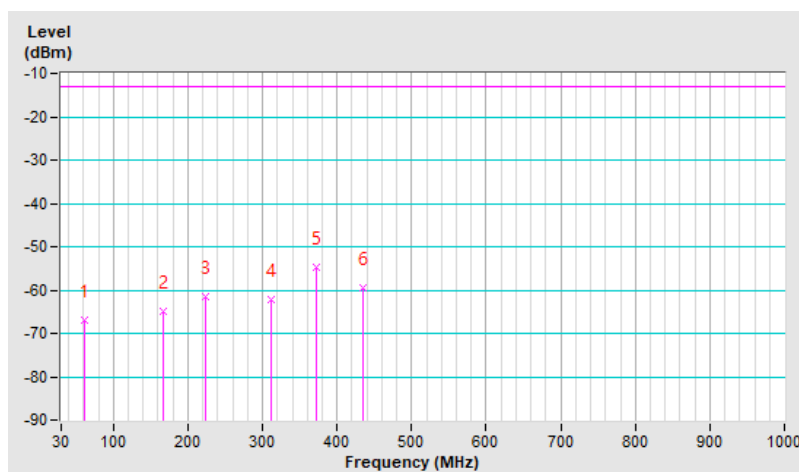
7.2.6 LTE Band 13

RF Mode	LTE Band 13 Channel Bandwidth: 10MHz	Channel	CH 23230 : 782 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Luis Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	60.93	-66.92	-13.00	-53.92	1.00 H	264	39.97	-106.89
2	166.36	-64.84	-13.00	-51.84	1.00 H	250	41.31	-106.15
3	224.00	-61.45	-13.00	-48.45	1.00 H	320	47.26	-108.71
4	312.57	-62.12	-13.00	-49.12	1.49 H	2	42.41	-104.53
5	373.01	-54.77	-13.00	-41.77	1.49 H	18	48.70	-103.47
6	434.87	-59.60	-13.00	-46.60	1.49 H	18	42.76	-102.36

Remarks:

- ERP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
- Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8 – 2.15
- Margin value = ERP – Limit value
- The other ERP levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
- The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.

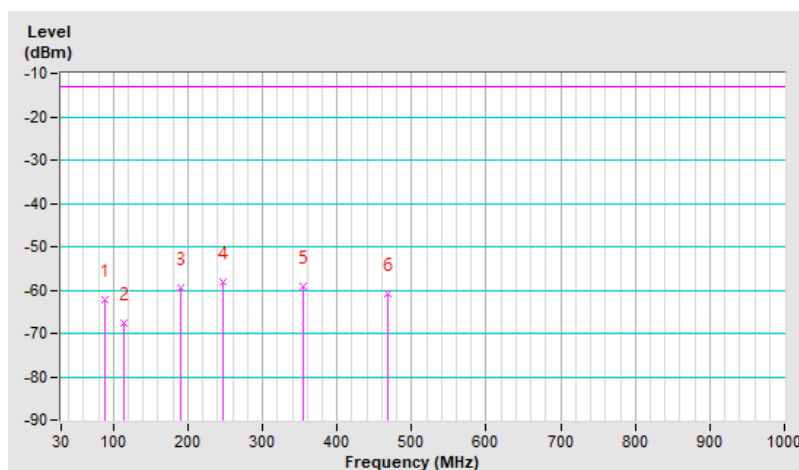


RF Mode	LTE Band 13 Channel Bandwidth: 10MHz	Channel	CH 23230 : 782 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Luis Lee		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	89.04	-62.25	-13.00	-49.25	1.50 V	6	49.45	-111.70
2	114.35	-67.67	-13.00	-54.67	1.01 V	345	41.13	-108.80
3	190.26	-59.64	-13.00	-46.64	1.01 V	277	48.98	-108.62
4	247.90	-58.24	-13.00	-45.24	1.50 V	27	48.51	-106.75
5	354.74	-59.01	-13.00	-46.01	1.01 V	19	45.00	-104.01
6	468.61	-60.90	-13.00	-47.90	1.01 V	142	40.85	-101.75

Remarks:

1. $ERP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8 - 2.15$
3. $Margin\ value = ERP - Limit\ value$
4. The other ERP levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.



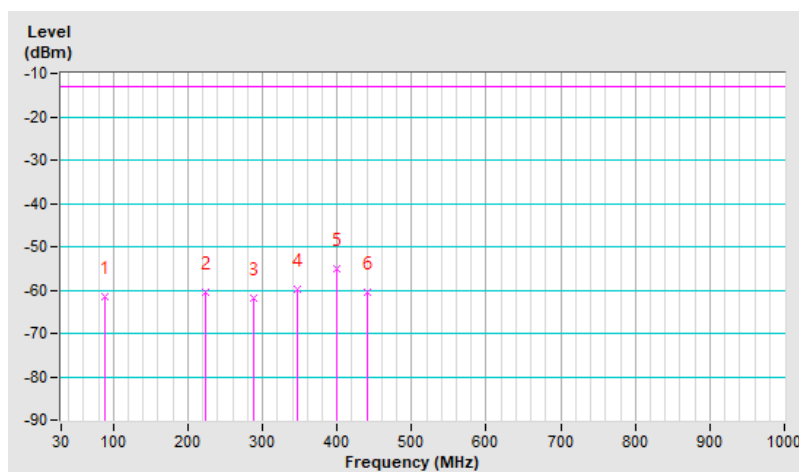
7.2.7 LTE Band 14

RF Mode	LTE Band 14 Channel Bandwidth: 10MHz	Channel	CH 23330 : 793 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Luis Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	89.04	-61.37	-13.00	-48.37	1.01 H	278	50.33	-111.70
2	224.00	-60.56	-13.00	-47.56	1.01 H	304	48.15	-108.71
3	287.26	-61.84	-13.00	-48.84	1.50 H	5	43.38	-105.22
4	347.71	-59.85	-13.00	-46.85	1.50 H	183	44.36	-104.21
5	399.72	-55.13	-13.00	-42.13	1.01 H	14	48.10	-103.23
6	440.49	-60.40	-13.00	-47.40	1.01 H	19	41.87	-102.27

Remarks:

- ERP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
- Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8 – 2.15
- Margin value = ERP – Limit value
- The other ERP levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
- The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.

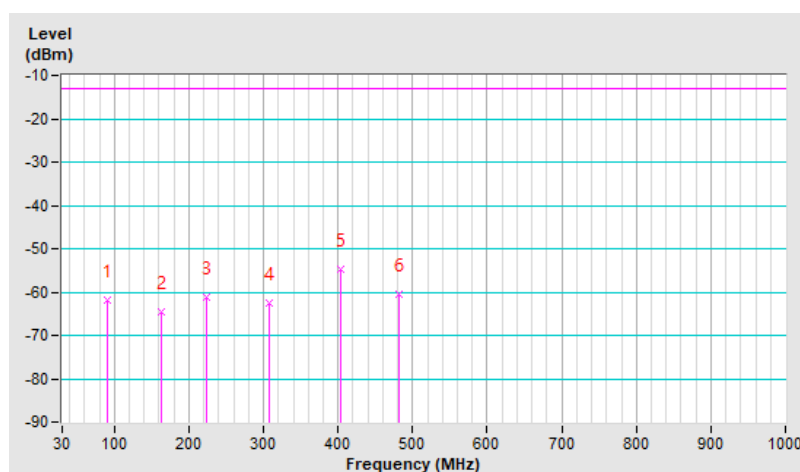


RF Mode	LTE Band 14 Channel Bandwidth: 10MHz	Channel	CH 23330 : 793 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Luis Lee		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	90.45	-61.73	-13.00	-48.73	1.49 V	16	50.04	-111.77
2	163.55	-64.52	-13.00	-51.52	1.00 V	15	41.53	-106.05
3	224.00	-61.24	-13.00	-48.24	1.49 V	9	47.47	-108.71
4	306.94	-62.68	-13.00	-49.68	1.49 V	336	42.01	-104.69
5	403.94	-54.69	-13.00	-41.69	1.49 V	19	48.50	-103.19
6	481.26	-60.64	-13.00	-47.64	1.00 V	30	41.01	-101.65

Remarks:

1. $ERP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8 - 2.15$
3. $Margin\ value = ERP - Limit\ value$
4. The other ERP levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.



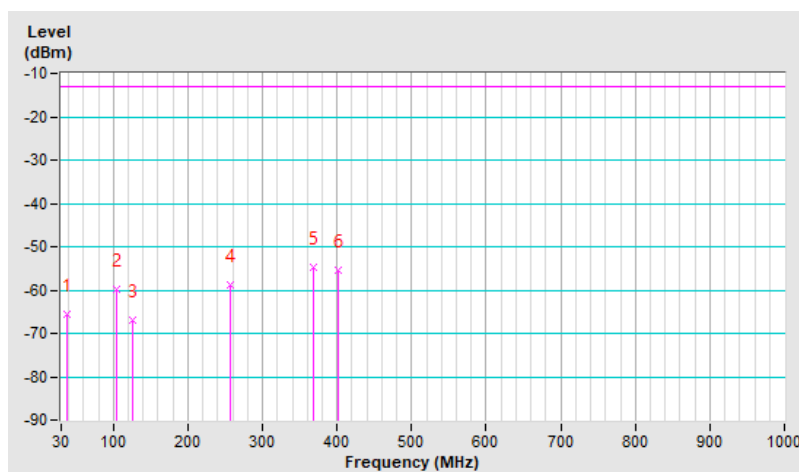
7.2.8 LTE Band 17

RF Mode	LTE Band 17 Channel Bandwidth: 10MHz	Channel	CH 23790 : 710 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Luis Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	37.03	-65.49	-13.00	-52.49	1.49 H	214	41.60	-107.09
2	104.51	-59.74	-13.00	-46.74	1.49 H	110	50.07	-109.81
3	125.59	-67.04	-13.00	-54.04	1.00 H	358	40.74	-107.78
4	257.74	-58.68	-13.00	-45.68	1.49 H	25	47.71	-106.39
5	367.39	-54.78	-13.00	-41.78	1.00 H	5	48.81	-103.59
6	401.13	-55.26	-13.00	-42.26	1.00 H	5	47.96	-103.22

Remarks:

- ERP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
- Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8 – 2.15
- Margin value = ERP – Limit value
- The other ERP levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
- The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.

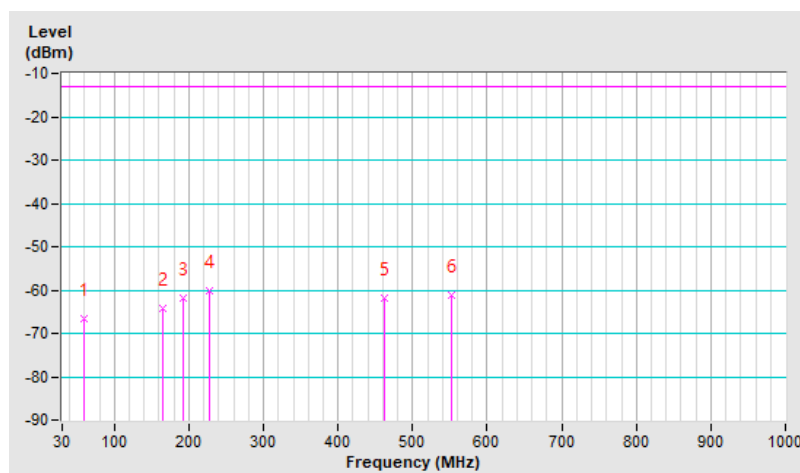


RF Mode	LTE Band 17 Channel Bandwidth: 10MHz	Channel	CH 23790 : 710 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Luis Lee		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	59.52	-66.72	-13.00	-53.72	1.00 V	5	39.75	-106.47
2	164.96	-64.39	-13.00	-51.39	1.00 V	132	41.74	-106.13
3	193.07	-62.03	-13.00	-49.03	1.00 V	337	46.77	-108.80
4	226.81	-60.25	-13.00	-47.25	1.00 V	144	48.38	-108.63
5	461.58	-61.71	-13.00	-48.71	1.00 V	23	40.12	-101.83
6	551.55	-61.35	-13.00	-48.35	1.00 V	308	39.02	-100.37

Remarks:

1. $ERP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8 - 2.15$
3. $Margin\ value = ERP - Limit\ value$
4. The other ERP levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.



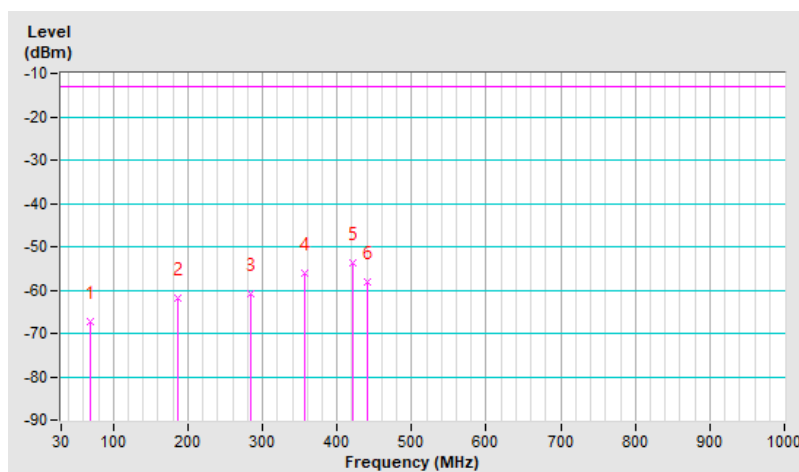
7.2.9 LTE Band 25

RF Mode	LTE Band 25 Channel Bandwidth: 20MHz	Channel	CH 26140 : 1860 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Luis Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	69.36	-67.37	-13.00	-54.37	1.01 H	19	38.62	-105.99
2	186.04	-61.87	-13.00	-48.87	1.01 H	17	44.13	-106.00
3	284.45	-60.83	-13.00	-47.83	1.49 H	5	42.26	-103.09
4	356.14	-56.19	-13.00	-43.19	1.49 H	24	45.62	-101.81
5	420.81	-53.70	-13.00	-40.70	1.01 H	19	46.97	-100.67
6	440.49	-58.03	-13.00	-45.03	1.01 H	177	42.09	-100.12

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. $Margin\ value = EIRP - Limit\ value$
4. The other EIRP levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.

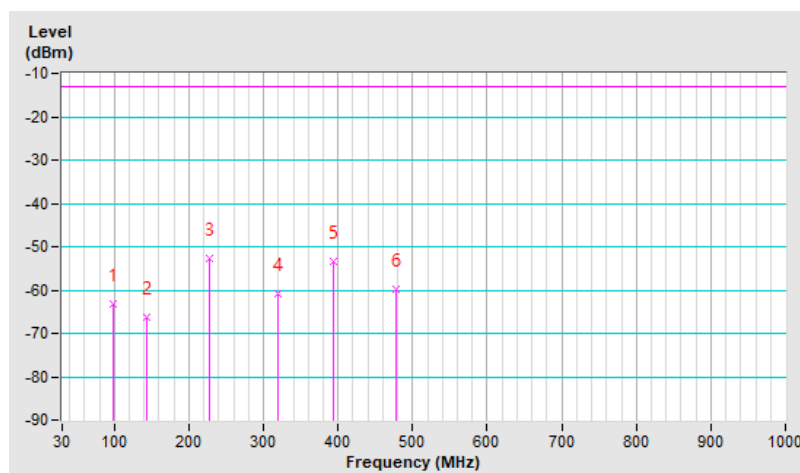


RF Mode	LTE Band 25 Channel Bandwidth: 20MHz	Channel	CH 26140 : 1860 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Luis Lee		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	97.48	-63.18	-13.00	-50.18	1.01 V	273	45.76	-108.94
2	143.87	-66.22	-13.00	-53.22	1.01 V	19	37.91	-104.13
3	228.22	-52.69	-13.00	-39.69	1.01 V	136	53.72	-106.41
4	319.59	-60.77	-13.00	-47.77	1.49 V	22	41.44	-102.21
5	394.10	-53.44	-13.00	-40.44	1.01 V	19	47.67	-101.11
6	478.45	-59.72	-13.00	-46.72	1.01 V	19	39.81	-99.53

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. $Margin\ value = EIRP - Limit\ value$
4. The other EIRP levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.



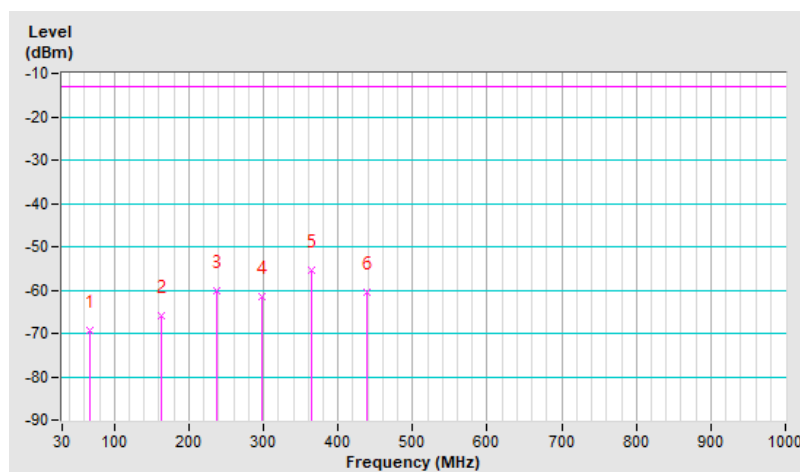
7.2.10 LTE Band 26 (814 MHz ~ 824 MHz)

RF Mode	LTE Band 26 (814 MHz ~ 824 MHz) Channel Bandwidth: 5MHz	Channel	CH 26765 : 821.5 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Luis Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	66.55	-69.21	-13.00	-56.21	1.49 H	41	38.29	-107.50
2	163.55	-65.83	-13.00	-52.83	1.00 H	11	40.22	-106.05
3	236.65	-60.18	-13.00	-47.18	1.49 H	19	47.28	-107.46
4	298.51	-61.54	-13.00	-48.54	1.49 H	327	43.41	-104.95
5	364.58	-55.57	-13.00	-42.57	1.49 H	19	48.12	-103.69
6	439.09	-60.47	-13.00	-47.47	1.00 H	16	41.82	-102.29

Remarks:

1. $ERP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8 - 2.15$
3. $Margin\ value = ERP - Limit\ value$
4. The other ERP levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.

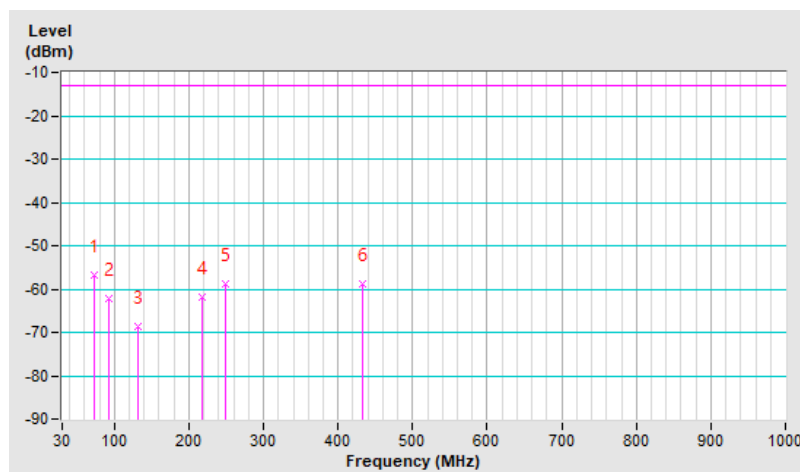


RF Mode	LTE Band 26 (814 MHz ~ 824 MHz) Channel Bandwidth: 5MHz	Channel	CH 26765 : 821.5 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Luis Lee		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	72.17	-56.78	-13.00	-43.78	1.01 V	280	51.78	-108.56
2	93.26	-62.14	-13.00	-49.14	1.50 V	111	49.35	-111.49
3	132.62	-68.74	-13.00	-55.74	1.01 V	21	38.40	-107.14
4	218.38	-61.92	-13.00	-48.92	1.01 V	140	46.73	-108.65
5	249.30	-58.84	-13.00	-45.84	1.50 V	12	47.85	-106.69
6	432.06	-58.74	-13.00	-45.74	1.01 V	13	43.70	-102.44

Remarks:

1. $ERP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8 - 2.15$
3. $Margin\ value = ERP - Limit\ value$
4. The other ERP levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.



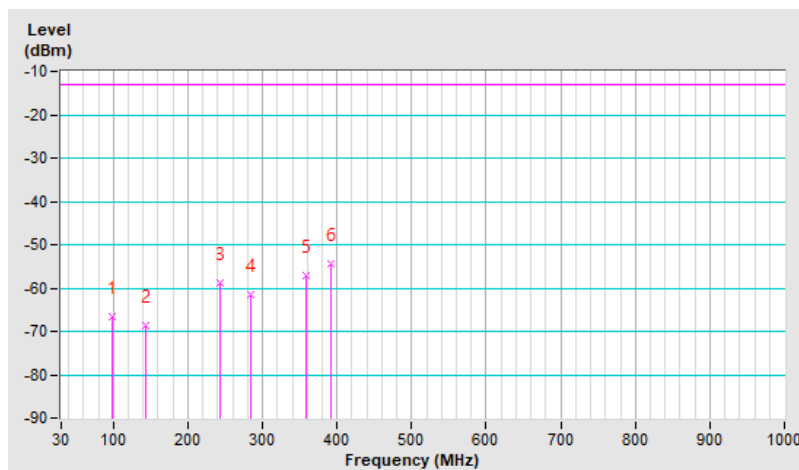
7.2.11 LTE Band 26 (824 MHz ~ 849 MHz)

RF Mode	LTE Band 26 (824 MHz ~ 849 MHz) Channel Bandwidth: 15MHz	Channel	CH 26865 : 831.5 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Luis Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	98.88	-66.63	-13.00	-53.63	1.01 H	276	44.11	-110.74
2	143.87	-68.57	-13.00	-55.57	1.01 H	181	37.71	-106.28
3	242.28	-58.70	-13.00	-45.70	1.50 H	3	48.31	-107.01
4	284.45	-61.64	-13.00	-48.64	1.50 H	338	43.60	-105.24
5	358.96	-57.19	-13.00	-44.19	1.01 H	13	46.69	-103.88
6	391.29	-54.47	-13.00	-41.47	1.01 H	336	48.79	-103.26

Remarks:

1. $ERP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8 - 2.15$
3. $Margin\ value = ERP - Limit\ value$
4. The other ERP levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.

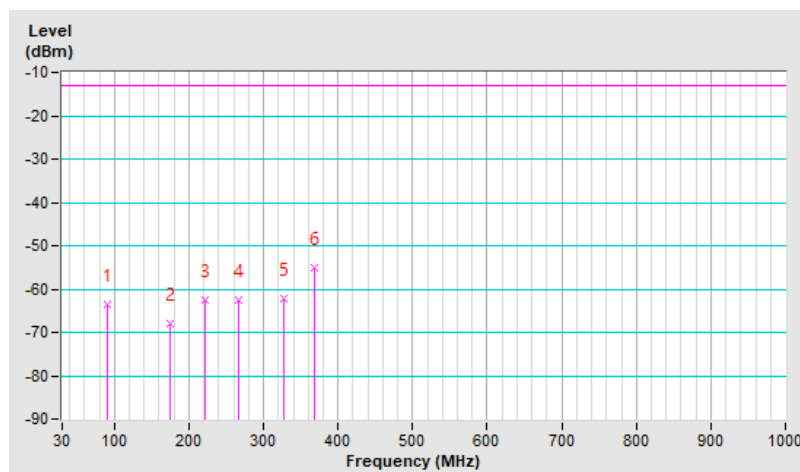


RF Mode	LTE Band 26 (824 MHz ~ 849 MHz) Channel Bandwidth: 15MHz	Channel	CH 26865 : 831.5 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Luis Lee		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	90.45	-63.60	-13.00	-50.60	1.49 V	205	48.17	-111.77
2	174.80	-68.11	-13.00	-55.11	1.00 V	211	38.66	-106.77
3	221.19	-62.43	-13.00	-49.43	1.00 V	328	46.23	-108.66
4	267.58	-62.64	-13.00	-49.64	1.49 V	7	43.20	-105.84
5	326.62	-62.27	-13.00	-49.27	1.49 V	180	41.97	-104.24
6	368.80	-54.92	-13.00	-41.92	1.00 V	3	48.63	-103.55

Remarks:

- ERP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
- Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
+ 20log(D) – 104.8 – 2.15
- Margin value = ERP – Limit value
- The other ERP levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
- The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.



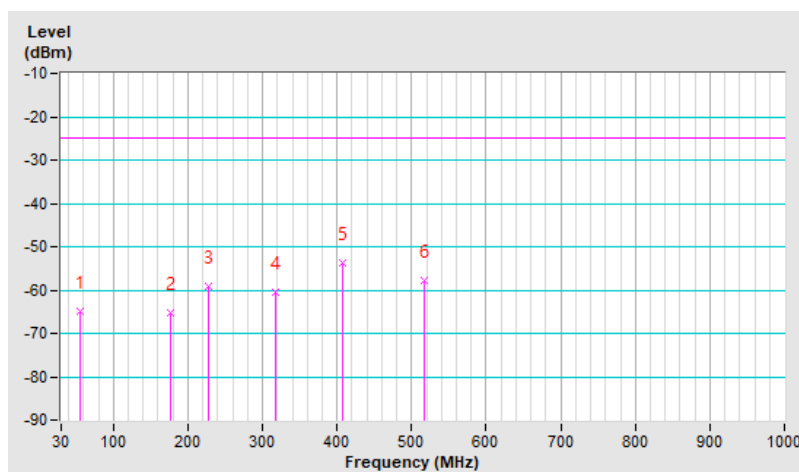
7.2.12 LTE Band 38

RF Mode	LTE Band 38 Channel Bandwidth: 20MHz	Channel	CH 38000 : 2595 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Luis Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	55.30	-65.01	-25.00	-40.01	1.01 H	19	39.00	-104.01
2	177.61	-65.13	-25.00	-40.13	1.01 H	153	39.81	-104.94
3	226.81	-59.13	-25.00	-34.13	1.01 H	327	47.35	-106.48
4	318.19	-60.43	-25.00	-35.43	1.50 H	18	41.81	-102.24
5	408.16	-53.57	-25.00	-28.57	1.01 H	30	47.43	-101.00
6	517.81	-57.83	-25.00	-32.83	1.01 H	340	40.98	-98.81

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. $Margin\ value = EIRP - Limit\ value$
4. The other EIRP levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.

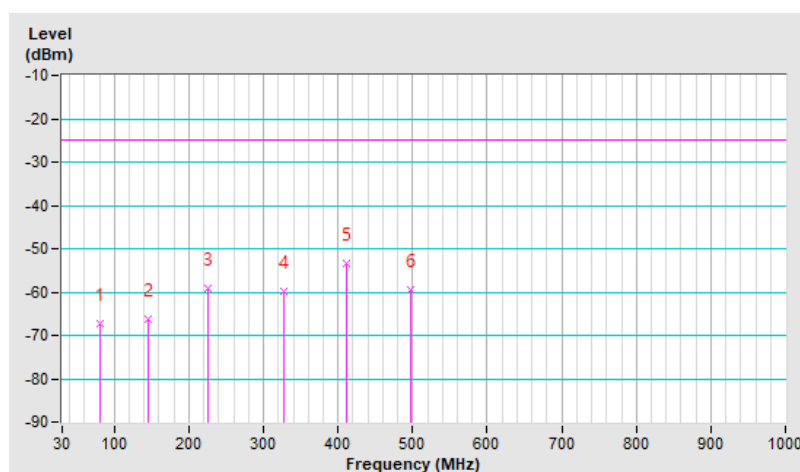


RF Mode	LTE Band 38 Channel Bandwidth: 20MHz	Channel	CH 38000 : 2595 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Luis Lee		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	80.61	-67.22	-25.00	-42.22	1.00 V	240	41.33	-108.55
2	145.28	-66.21	-25.00	-41.21	1.00 V	30	37.80	-104.01
3	225.41	-59.03	-25.00	-34.03	1.00 V	161	47.52	-106.55
4	328.03	-59.78	-25.00	-34.78	1.49 V	18	42.30	-102.08
5	410.97	-53.45	-25.00	-28.45	1.49 V	18	47.50	-100.95
6	496.72	-59.36	-25.00	-34.36	1.00 V	6	39.85	-99.21

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. $Margin\ value = EIRP - Limit\ value$
4. The other EIRP levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.



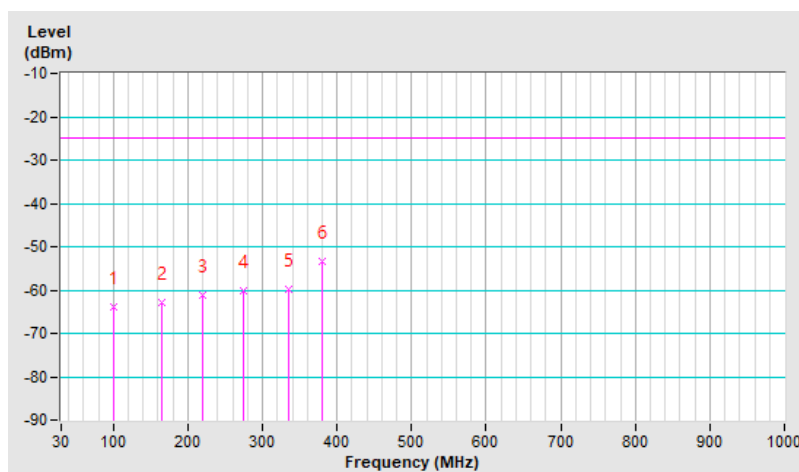
7.2.13 LTE Band 41

RF Mode	LTE Band 41 Channel Bandwidth: 20MHz	Channel	CH 41490 : 2680 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Luis Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	100.29	-63.94	-25.00	-38.94	1.00 H	65	44.40	-108.34
2	164.96	-63.04	-25.00	-38.04	1.00 H	7	40.94	-103.98
3	219.78	-61.09	-25.00	-36.09	1.49 H	356	45.39	-106.48
4	274.61	-60.11	-25.00	-35.11	1.49 H	2	43.24	-103.35
5	335.06	-59.96	-25.00	-34.96	1.49 H	177	42.09	-102.05
6	380.04	-53.29	-25.00	-28.29	1.49 H	358	47.94	-101.23

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. $Margin\ value = EIRP - Limit\ value$
4. The other EIRP levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.

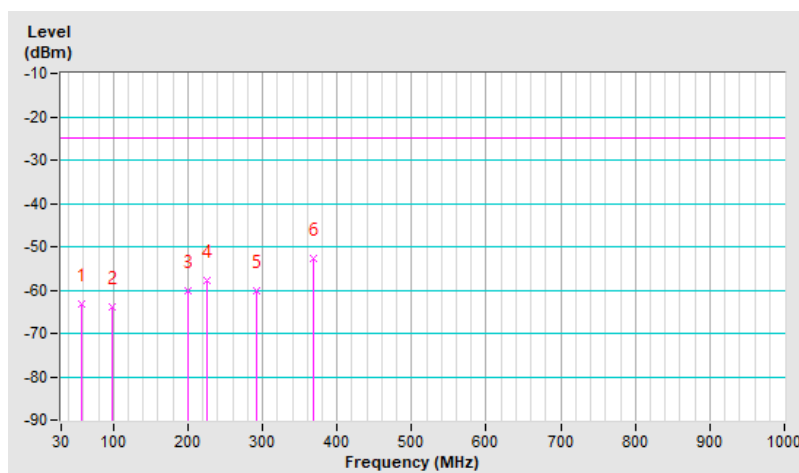


RF Mode	LTE Band 41 Channel Bandwidth: 20MHz	Channel	CH 41490 : 2680 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Luis Lee		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	56.71	-63.08	-25.00	-38.08	1.00 V	50	41.14	-104.22
2	97.48	-63.95	-25.00	-38.95	1.00 V	236	44.99	-108.94
3	200.10	-60.16	-25.00	-35.16	1.00 V	191	46.66	-106.82
4	225.41	-57.71	-25.00	-32.71	1.00 V	139	48.84	-106.55
5	291.48	-60.24	-25.00	-35.24	1.50 V	6	42.78	-103.02
6	367.39	-52.82	-25.00	-27.82	1.00 V	19	48.62	-101.44

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. $Margin\ value = EIRP - Limit\ value$
4. The other EIRP levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.



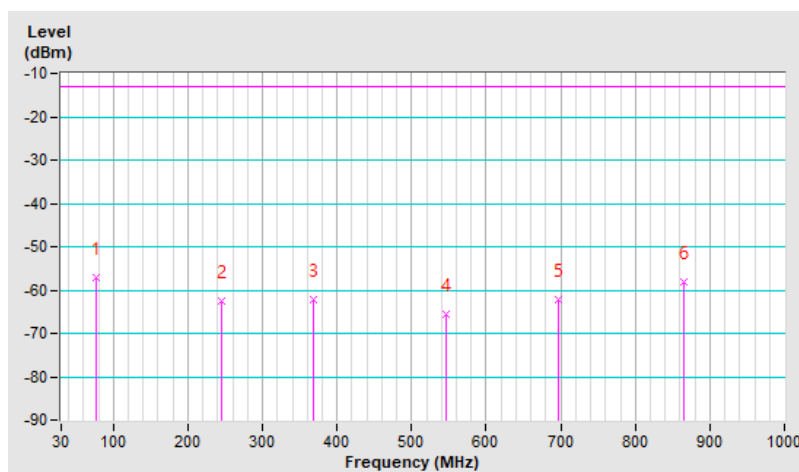
7.2.14 LTE Band 42

RF Mode	LTE Band 42 Channel Bandwidth: 5MHz	Channel	CH 42115 : 3452.5 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Luis Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	77.53	-57.16	-13.00	-44.16	2.00 H	135	50.46	-107.62
2	244.37	-62.61	-13.00	-49.61	1.00 H	123	42.14	-104.75
3	368.53	-62.25	-13.00	-49.25	1.50 H	277	39.16	-101.41
4	547.01	-65.63	-13.00	-52.63	1.00 H	2	32.71	-98.34
5	696.39	-62.14	-13.00	-49.14	2.00 H	43	32.93	-95.07
6	865.17	-58.23	-13.00	-45.23	1.00 H	317	33.38	-91.61

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. $Margin\ value = EIRP - Limit\ value$
4. The other EIRP levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.

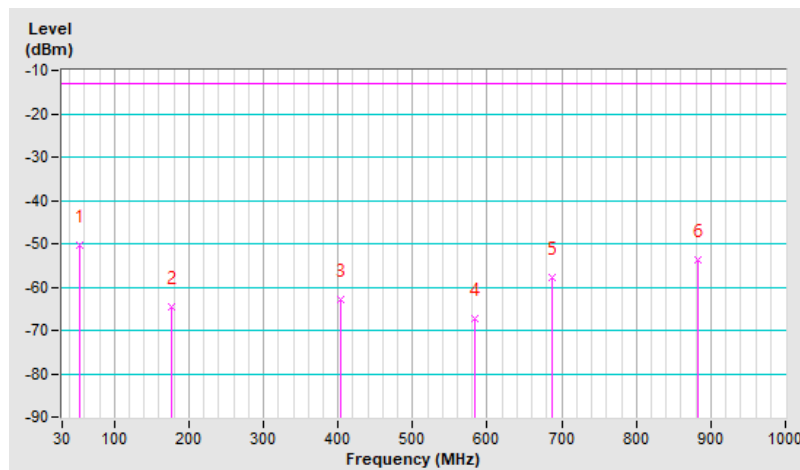


RF Mode	LTE Band 42 Channel Bandwidth: 5MHz	Channel	CH 42115 : 3452.5 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Luis Lee		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	53.28	-50.37	-13.00	-37.37	1.00 V	289	53.60	-103.97
2	177.44	-64.67	-13.00	-51.67	1.00 V	78	40.26	-104.93
3	404.42	-62.87	-13.00	-49.87	1.50 V	173	38.17	-101.04
4	582.90	-67.12	-13.00	-54.12	1.00 V	200	30.08	-97.20
5	687.66	-57.94	-13.00	-44.94	2.00 V	304	37.38	-95.32
6	882.63	-53.58	-13.00	-40.58	1.50 V	251	37.64	-91.22

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. $Margin\ value = EIRP - Limit\ value$
4. The other EIRP levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.



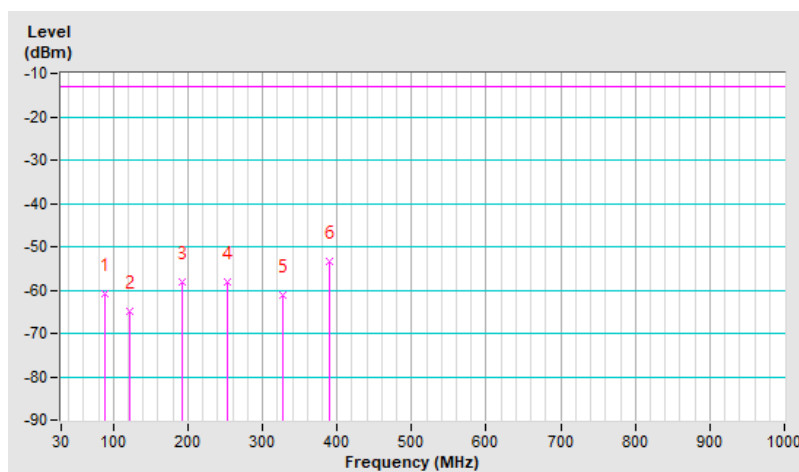
7.2.15 LTE Band 66

RF Mode	LTE Band 66 Channel Bandwidth: 20MHz	Channel	CH 132072 : 1720 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Luis Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	89.04	-60.96	-13.00	-47.96	1.49 H	19	48.59	-109.55
2	122.78	-64.88	-13.00	-51.88	1.00 H	186	41.04	-105.92
3	191.67	-58.01	-13.00	-45.01	1.00 H	6	48.58	-106.59
4	252.12	-58.21	-13.00	-45.21	1.49 H	7	46.25	-104.46
5	326.62	-61.08	-13.00	-48.08	1.49 H	19	41.01	-102.09
6	389.88	-53.47	-13.00	-40.47	1.49 H	19	47.64	-101.11

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. $Margin\ value = EIRP - Limit\ value$
4. The other EIRP levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.

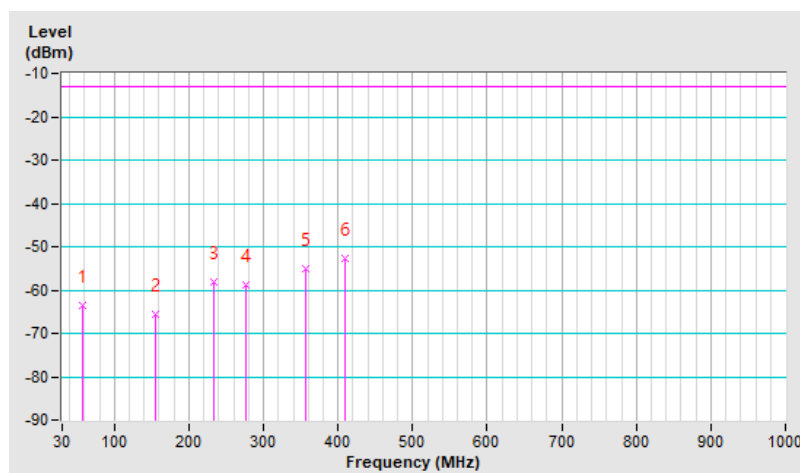


RF Mode	LTE Band 66 Channel Bandwidth: 20MHz	Channel	CH 132072 : 1720 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Luis Lee		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	56.71	-63.57	-13.00	-50.57	1.00 V	231	40.65	-104.22
2	155.12	-65.48	-13.00	-52.48	1.00 V	12	38.26	-103.74
3	232.43	-58.16	-13.00	-45.16	1.00 V	136	47.74	-105.90
4	276.01	-58.98	-13.00	-45.98	1.49 V	19	44.30	-103.28
5	357.55	-55.22	-13.00	-42.22	1.00 V	1	46.56	-101.78
6	409.57	-52.61	-13.00	-39.61	1.00 V	6	48.37	-100.98

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. $Margin\ value = EIRP - Limit\ value$
4. The other EIRP levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.



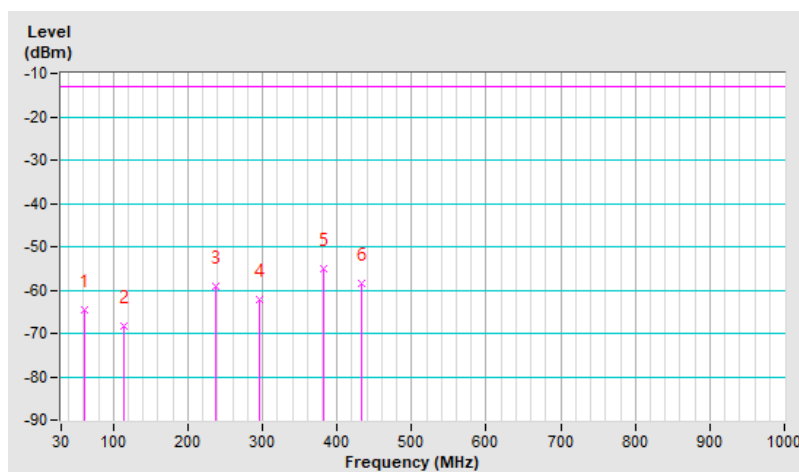
7.2.16 LTE Band 71

RF Mode	LTE Band 71 Channel Bandwidth: 20MHz	Channel	CH 133222 : 673 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Luis Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	60.93	-64.65	-13.00	-51.65	1.01 H	297	42.24	-106.89
2	114.35	-68.45	-13.00	-55.45	1.01 H	3	40.35	-108.80
3	238.06	-59.01	-13.00	-46.01	1.50 H	5	48.32	-107.33
4	295.70	-62.12	-13.00	-49.12	1.50 H	153	42.93	-105.05
5	381.45	-55.09	-13.00	-42.09	1.01 H	19	48.27	-103.36
6	433.46	-58.46	-13.00	-45.46	1.01 H	165	43.94	-102.40

Remarks:

- ERP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
- Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
+ 20log(D) – 104.8 – 2.15
- Margin value = ERP – Limit value
- The other ERP levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
- The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.

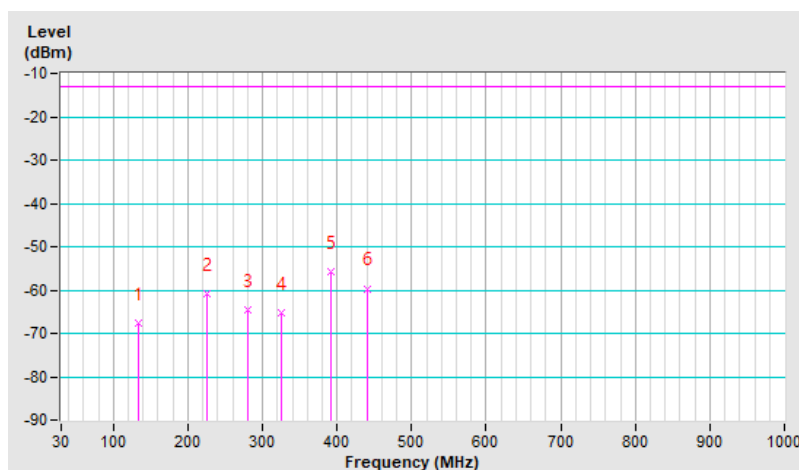


RF Mode	LTE Band 71 Channel Bandwidth: 20MHz	Channel	CH 133222 : 673 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Luis Lee		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	134.03	-67.75	-13.00	-54.75	1.50 V	6	39.28	-107.03
2	225.41	-60.88	-13.00	-47.88	1.00 V	6	47.82	-108.70
3	280.23	-64.70	-13.00	-51.70	1.00 V	347	40.60	-105.30
4	325.22	-65.11	-13.00	-52.11	1.50 V	316	39.14	-104.25
5	392.70	-55.71	-13.00	-42.71	1.00 V	15	47.54	-103.25
6	440.49	-59.66	-13.00	-46.66	1.00 V	149	42.61	-102.27

Remarks:

- ERP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
- Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
+ 20log(D) – 104.8 – 2.15
- Margin value = ERP – Limit value
- The other ERP levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
- The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.



7.3 Radiated Spurious Emissions above 1GHz

7.3.1 LTE Band 2

RF Mode	LTE Band 2 Channel Bandwidth: 20MHz	Channel	CH 18700 : 1860 MHz
Frequency Range	1 GHz ~ 20 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Luis Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3720.00	-48.44	-13.00	-35.44	1.50 H	14	40.23	-88.67
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3720.00	-49.06	-13.00	-36.06	1.92 V	188	39.61	-88.67

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. $Margin\ value = EIRP - Limit\ value$
4. The other EIRP levels were very low against the limit.

7.3.2 LTE Band 4

RF Mode	LTE Band 4 Channel Bandwidth: 20MHz	Channel	CH 20050 : 1720 MHz
Frequency Range	1 GHz ~ 18 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Luis Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3440.00	-50.01	-13.00	-37.01	1.74 H	188	40.48	-90.49
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3440.00	-50.63	-13.00	-37.63	2.14 V	163	39.86	-90.49

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

7.3.3 LTE Band 5

RF Mode	LTE Band 5 Channel Bandwidth: 10MHz	Channel	CH 20450 : 829 MHz
Frequency Range	1 GHz ~ 18 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Luis Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1658.00	-57.02	-13.00	-44.02	1.49 H	8	43.05	-100.07
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1658.00	-57.44	-13.00	-44.44	1.90 V	211	42.63	-100.07

Remarks:

1. $ERP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8 - 2.15$
3. Margin value = ERP – Limit value
4. The other ERP levels were very low against the limit.

7.3.4 LTE Band 7

RF Mode	LTE Band 7 Channel Bandwidth: 20MHz	Channel	CH 21100 : 2535 MHz
Frequency Range	1 GHz ~ 27 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Luis Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5070.00	-42.77	-25.00	-17.77	1.44 H	19	40.01	-82.78
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5070.00	-43.65	-25.00	-18.65	1.78 V	265	39.13	-82.78

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

7.3.5 LTE Band 12

RF Mode	LTE Band 12 Channel Bandwidth: 10MHz	Channel	CH 23060 : 704 MHz
Frequency Range	1 GHz ~ 18 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Luis Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1408.00	-56.59	-13.00	-43.59	1.88 H	57	43.50	-100.09
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1408.00	-57.49	-13.00	-44.49	1.61 V	282	42.60	-100.09

Remarks:

1. $ERP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8 - 2.15$
3. Margin value = ERP – Limit value
4. The other ERP levels were very low against the limit.

7.3.6 LTE Band 13

RF Mode	LTE Band 13 Channel Bandwidth: 10MHz	Channel	CH 23230 : 782 MHz
Frequency Range	1 GHz ~ 18 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Luis Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1564.00	-46.84	-40.00	-6.84	1.21 H	62	51.07	-97.91
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1564.00	-49.78	-40.00	-9.78	1.91 V	89	48.13	-97.91

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

7.3.7 LTE Band 14

RF Mode	LTE Band 14 Channel Bandwidth: 10MHz	Channel	CH 23330 : 793 MHz
Frequency Range	1 GHz ~ 18 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Luis Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1586.00	-52.04	-40.00	-12.04	1.35 H	141	45.84	-97.88
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1586.00	-53.60	-13.00	-40.60	2.03 V	111	44.28	-97.88

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

7.3.8 LTE Band 17

RF Mode	LTE Band 17 Channel Bandwidth: 10MHz	Channel	CH 23790 : 710 MHz
Frequency Range	1 GHz ~ 18 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Luis Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1420.00	-56.16	-13.00	-43.16	1.43 H	58	43.99	-100.15
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1420.00	-56.75	-13.00	-43.75	1.98 V	142	43.40	-100.15

Remarks:

1. $ERP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8 - 2.15$
3. Margin value = ERP – Limit value
4. The other ERP levels were very low against the limit.

7.3.9 LTE Band 25

RF Mode	LTE Band 25 Channel Bandwidth: 20MHz	Channel	CH 26140 : 1860 MHz
Frequency Range	1 GHz ~ 20 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Luis Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3720.00	-48.79	-13.00	-35.79	1.93 H	48	39.88	-88.67
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3720.00	-49.66	-13.00	-36.66	2.13 V	185	39.01	-88.67

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

7.3.10 LTE Band 26 (814 MHz ~ 824 MHz)

RF Mode	LTE Band 26 (814 MHz ~ 824 MHz) Channel Bandwidth: 5MHz	Channel	CH 26765 : 821.5 MHz
Frequency Range	1 GHz ~ 18 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Luis Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1643.00	-57.40	-13.00	-44.40	1.56 H	29	42.70	-100.10
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1643.00	-58.20	-13.00	-45.20	1.98 V	84	41.90	-100.10

Remarks:

1. $ERP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8 - 2.15$
3. Margin value = ERP – Limit value
4. The other ERP levels were very low against the limit.

7.3.11 LTE Band 26 (824 MHz ~ 849 MHz)

RF Mode	LTE Band 26 (824 MHz ~ 849 MHz) Channel Bandwidth: 15MHz	Channel	CH 26865 : 831.5 MHz
Frequency Range	1 GHz ~ 18 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Luis Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1663.00	-57.16	-13.00	-44.16	2.30 H	11	42.87	-100.03
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1663.00	-57.98	-13.00	-44.98	1.48 V	86	42.05	-100.03

Remarks:

1. $ERP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8 - 2.15$
3. Margin value = ERP – Limit value
4. The other ERP levels were very low against the limit.

7.3.12 LTE Band 38

RF Mode	LTE Band 38 Channel Bandwidth: 20MHz	Channel	CH 38000 : 2595 MHz
Frequency Range	1 GHz ~ 27 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Luis Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5190.00	-45.97	-25.00	-20.97	1.88 H	142	36.85	-82.82
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5190.00	-46.80	-25.00	-21.80	2.63 V	111	36.02	-82.82

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

7.3.13 LTE Band 41

RF Mode	LTE Band 41 Channel Bandwidth: 20MHz	Channel	CH 41490 : 2680 MHz
Frequency Range	1 GHz ~ 27 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Luis Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5360.00	-44.45	-25.00	-19.45	2.64 H	102	37.93	-82.38
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5360.00	-45.00	-25.00	-20.00	1.85 V	117	37.38	-82.38

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

7.3.14 LTE Band 42

RF Mode	LTE Band 42 Channel Bandwidth: 5MHz	Channel	CH 42115 : 3452.5 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Luis Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	6905.00	-44.22	-13.00	-31.22	1.83 H	143	34.75	-78.97
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	6905.00	-45.69	-13.00	-32.69	2.15 V	178	33.28	-78.97

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

RF Mode	LTE Band 42 Channel Bandwidth: 5MHz	Channel	CH 42590 : 3500 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Luis Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	7000.00	-43.20	-13.00	-30.20	1.93 H	148	35.07	-78.27
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	7000.00	-44.03	-13.00	-31.03	2.21 V	195	34.24	-78.27

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

RF Mode	LTE Band 42 Channel Bandwidth: 5MHz	Channel	CH 43065 : 3547.5 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Luis Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	7095.00	-44.14	-13.00	-31.14	1.93 H	145	34.65	-78.79
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	7095.00	-44.81	-13.00	-31.81	2.15 V	186	33.98	-78.79

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

RF Mode	LTE Band 42 Channel Bandwidth: 20MHz	Channel	CH 42190 : 3460 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Luis Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	6920.00	-43.67	-13.00	-30.67	1.86 H	146	35.18	-78.85
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	6920.00	-44.68	-13.00	-31.68	2.23 V	195	34.17	-78.85

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

RF Mode	LTE Band 42 Channel Bandwidth: 20MHz	Channel	CH 42590 : 3500 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Luis Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	7000.00	-43.58	-13.00	-30.58	1.81 H	146	34.69	-78.27
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	7000.00	-44.31	-13.00	-31.31	2.14 V	186	33.96	-78.27

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

RF Mode	LTE Band 42 Channel Bandwidth: 20MHz	Channel	CH 42990 : 3540 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Luis Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	7080.00	-43.64	-13.00	-30.64	1.93 H	145	35.10	-78.74
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	7080.00	-44.80	-13.00	-31.80	2.14 V	188	33.94	-78.74

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

7.3.15 LTE Band 66

RF Mode	LTE Band 66 Channel Bandwidth: 20MHz	Channel	CH 132072 : 1720 MHz
Frequency Range	1 GHz ~ 18 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Luis Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3440.00	-49.23	-13.00	-36.23	1.90 H	14	41.26	-90.49
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3440.00	-49.92	-13.00	-36.92	1.17 V	125	40.57	-90.49

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

7.3.16 LTE Band 71

RF Mode	LTE Band 71 Channel Bandwidth: 20MHz	Channel	CH 133222 : 673 MHz
Frequency Range	1 GHz ~ 18 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Luis Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1346.00	-57.14	-13.00	-44.14	1.21 H	155	43.04	-100.18
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1346.00	-57.48	-13.00	-44.48	2.12 V	179	42.70	-100.18

Remarks:

1. $ERP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8 - 2.15$
3. Margin value = ERP – Limit value
4. The other ERP levels were very low against the limit.

8 Pictures of Test Arrangements

Please refer to the attached file (Test Setup Photo)

9 Information of the Testing Laboratories

We, Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch, were founded in 1988 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are FCC recognized accredited test firms and accredited according to ISO/IEC 17025.

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The address and road map of all our labs can be found in our web site also.

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