



TEST REPORT

REPORT NUMBER: 25B02W000010-003

ON

Type of Equipment: Handheld Wireless Terminal

Type of Designation: T8F1C

Brand Name: SUNMI

Manufacturer: Shanghai Sunmi Technology Co.,Ltd.

FCC ID: 2AH25T8F1C

IC: 22621-T8F1C

ACCORDING TO

FCC 47 CFR Part 2,FCC 47 CFR Part 22,FCC 47 CFR Part 24,FCC 47 CFR Part 27,
FCC 47 CFR Part 90, RSS-Gen Issue 5,RSS-130 Issue 2,RSS-132 Issue 4,RSS-133 Issue
7,RSS-139 Issue 4,RSS-140 Issue 1,RSS-195 Issue 2,RSS-199 Issue 4,ANSI C63.26-2015

Chongqing Academy of Information and Communications Technology

Month date, year

August 14, 2025

Signature



Zhou Jin

Director

Note:

The test results in this test report relate only to the devices specified in this report. This report shall not be reproduced except in full without the written approval of Chongqing Academy of Information and Communications Technology.



Report No.: 25B02W000010-003

Revision Version

Report Number	Revision	Date
25B02W000010-003	00	2025-08-14

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1. Test Laboratory

1.1. Testing Location

Name:	Chongqing Academy of Information and Communications Technology
Designation Number:	CN1239
IC Registration Number:	29397
Address:	No.19EastRoad,Xiantao Big-data Valley,Yubei District,Chongqing,People's Republic of China
Postal Code:	401336
Telephone:	0086-23-88069965
Fax:	0086-23-88608777

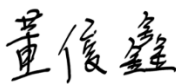
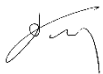
1.2. Testing Environment

Normal Temperature:	15-35°C
Relative Humidity:	30-60%RH

1.3. Project data

Testing Start Date:	2025-05-27
Testing End Date:	2025-07-04

1.4. Signature

	2025-08-14
Dong Junxin (Prepared this test report)	Date
	2025-08-14
Wang Lili (Reviewed this test report)	Date
	2025-08-14
Zhou Jin Director of the laboratory (Approved this test report)	Date

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2. Client Information

2.1. Applicant Information

Company Name:	Shanghai Sunmi Technology Co.,Ltd.
Address /Post:	Room 505,No.388,Song Hu Road,Yang Pu District,Shanghai,China
City:	Shanghai
Country:	China
Telephone:	8618501703215
Fax:	N/A
Email:	fang.lu@sunmi.com
Contact Person:	Fang Lu

2.2. Manufacturer Information

Company Name:	Shanghai Sunmi Technology Co.,Ltd.
Address /Post:	Room 505,No.388,Song Hu Road,Yang Pu District,Shanghai,China
City:	Shanghai
Country:	China
Telephone:	8618501703215
Fax:	N/A
Email:	fang.lu@sunmi.com
Contact Person:	Fang Lu

3. Equipment under Test (EUT) and Ancillary Equipment (AE)

3.1. About EUT

EUT Description	Handheld Wireless Terminal
Model name	T8F1C
Brand name	SUNMI
WCDMA Frequency Band	WCDMA Band I/II/IV/V/VI/VIII/XIX
LTE Frequency Band	LTE Band 1/2/3/4/5/7/8/12/13/14/17/18/19/20/25/26/28/30/34/38/39/ 40/41/66/71
Type of LTE modulation	QPSK/16QAM/64QAM
Power Class 2	N/A
Power Class 3	LTE Band 1/2/3/4/5/7/8/12/13/14/17/18/19/20/25/26/28/30/34/38/39/ 40/41/66/71
Extreme Temperature	-20/+55°C
Nominal Test Voltage	3.87 V
Extreme Test High Voltage	4.45 V
Extreme Test Low Voltage	3.6 V

Note1: Photographs of EUT are shown in ANNEX A of this test report.

Note2: High and low voltage values in extreme condition test are given by manufacturer.

Note3: The Extreme Temperature is provided by the manufacturer and has not been verified by the laboratory.

3.2. Internal Identification of EUT used during the test

EUT ID*	SN or IMEI	HW Version	SW Version	Date of receipt
25B02W000010#S2	IMEI:862072070057829;862072070057837	V00	4.0.0	2025-05-23
25B02W000010#S4	IMEI:862072070057688;862072070057696	V00	4.0.0	2025-05-23

*EUT ID: is used to identify the test sample in the lab internally.

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3.3. Outline of Equipment under Test

Technology	Band	UL Freq.(MHz)	DL Freq.(MHz)	Note
4G	2	1850 - 1910	1930-1990	--
4G	4	1710 - 1755	2110-2155	--
4G	5	824 - 849	869-894	--
4G	7	2500 - 2570	2620-2690	--
4G	12	699-716	729-746	--
4G	13	777-787	746-756	--
4G	14	788-798	758-768	--
4G	17	704-716	734-746	--
4G	25	1850-1915	1930-1995	--
4G	26(Part 22)	824-849	869-894	--
4G	26(Part 90)	814-824	859-869	--
4G	30	2305-2315	2350-2360	--
4G	38	2570 - 2620	2570-2620	--
4G	40	2300-2400	2300-2400	--
4G	41	2496 - 2690	2496 - 2690	--
4G	41(Note 1)	2500 - 2690	2500 - 2690	--
4G	66	1710-1780	2110-2200	--
4G	71	663-698	617-652	--

Band	BW (MHz)	Low Channel	Low Freq. (MHz)	Mid Channel	Mid Freq. (MHz)	High Channel	High Freq. (MHz)
Band 2	1.4	18607	1850.7	18900	1880	19193	1909.3

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Band	BW (MHz)	Low Channel	Low Freq. (MHz)	Mid Channel	Mid Freq. (MHz)	High Channel	High Freq. (MHz)
	3	18615	1851.5	18900	1880	19185	1908.5
	5	18625	1852.5	18900	1880	19175	1907.5
	10	18650	1855	18900	1880	19150	1905
	15	18675	1857.5	18900	1880	19125	1902.5
	20	18700	1860	18900	1880	19100	1900
Band 4	1.4	19957	1710.7	20175	1732.5	20393	1754.3
	3	19965	1711.5	20175	1732.5	20385	1753.5
	5	19975	1712.5	20175	1732.5	20375	1752.5
	10	20000	1715	20175	1732.5	20350	1750
	15	20025	1717.5	20175	1732.5	20325	1747.5
	20	20050	1720	20175	1732.5	20300	1745
Band 5	1.4	20407	824.7	20525	836.5	20643	848.3
	3	20415	825.5	20525	836.5	20635	847.5
	5	20425	826.5	20525	836.5	20625	846.5
	10	20450	829	20525	836.5	20600	844
Band 7	5	20775	2502.5	21100	2535	21425	2567.5
	10	20800	2505	21100	2535	21400	2565
	15	20825	2507.5	21100	2535	21375	2562.5
	20	20850	2510	21100	2535	21350	2560
Band 12	1.4	23017	699.7	23095	707.5	23173	715.3
	3	23025	700.5	23095	707.5	23165	714.5
	5	23035	701.5	23095	707.5	23155	713.5
	10	23060	704	23095	707.5	23130	711
Band 13	5	23205	779.5	23230	782	23255	784.5
	10	23230	782	23230	782	23230	782
Band 14 (788-798MHz)	5	23305	790.5	23330	793	23355	795.5
	10	23330	793	23330	793	23330	793
Band 17	5	23755	706.5	23790	710	23825	713.5
	10	23780	709	23790	710	23800	711
Band 25	1.4	26047	1850.7	26365	1882.5	26683	1914.3
	3	26055	1851.5	26365	1882.5	26675	1913.5
	5	26065	1852.5	26365	1882.5	26665	1912.5
	10	26090	1855	26365	1882.5	26640	1910
	15	26115	1857.5	26365	1882.5	26615	1907.5
	20	26140	1860	26365	1882.5	26590	1905
Band 26(Part 22) (824-849MHz)	1.4	26797	824.7	26915	836.5	27033	848.3
	3	26805	825.5	26915	836.5	27025	847.5
	5	26815	826.5	26915	836.5	27015	846.5
	10	26840	829	26915	836.5	26990	844

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Band	BW (MHz)	Low Channel	Low Freq. (MHz)	Mid Channel	Mid Freq. (MHz)	High Channel	High Freq. (MHz)
	15	26865	831.5	26915	836.5	26965	841.5
Band 26(Part 90) (814-824MHz)	1.4	26697	814.7	26740	819	26783	823.3
	3	26705	815.5	26740	819	26775	822.5
	5	26715	816.5	26740	819	26765	821.5
	10	/	/	26740	819	/	/
Band 30	5	27685	2307.5	27710	2310	27735	2312.5
	10	27710	2310	27710	2310	27710	2310
Band 38	5	37775	2572.5	38000	2595	38225	2617.5
	10	37800	2575	38000	2595	38200	2615
	15	37825	2577.5	38000	2595	38175	2612.5
	20	37850	2580	38000	2595	38150	2610
Band 40L	5	38725	2307.5	38750	2310	38775	2312.5
	10	/	/	38750	2310	/	/
Band 40H	5	39175	2352.5	39200	2355	39225	2357.5
	10	/	/	39200	2355	/	/
Band 41	5	39675	2498.5	40620	2593	41565	2687.5
	10	39700	2501	40620	2593	41540	2685
	15	39725	2503.5	40620	2593	41515	2682.5
	20	39750	2506	40620	2593	41490	2680
Band 41 (Note 1)	5	39715	2502.5	40620	2593	41565	2687.5
	10	39740	2505	40620	2593	41540	2685
	15	39765	2507.5	40620	2593	41515	2682.5
	20	39790	2510	40620	2593	41490	2680
Band66	1.4	131979	1710.7	132322	1745	132665	1779.3
	3	131987	1711.5	132322	1745	132657	1778.5
	5	131997	1712.5	132322	1745	132647	1777.5
	10	132022	1715	132322	1745	132622	1775
	15	132047	1717.5	132322	1745	132597	1772.5
	20	132072	1720	132322	1745	132572	1770
Band 71	5	133147	665.5	133297	680.5	133447	695.5
	10	133172	668	133297	680.5	133422	693
	15	133197	670.5	133297	680.5	133397	690.5
	20	133222	673	133322	683	133372	688

Note 1: This frequency range is only applicable for IC certification.

No.	Maximum of Antenna Gain	Data
1	LTE band 2	2.19 dBi

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2	LTE band 4	1.85 dBi
3	LTE band 5	-0.37 dBi
4	LTE band 7	0.46 dBi
5	LTE band 12	-3.46 dBi
6	LTE band 13	-3.53 dBi
7	LTE band 14	-3.62 dBi
8	LTE band 17	-3.46 dBi
9	LTE band 25	2.19 dBi
10	LTE band 26	-0.37 dBi
11	LTE band 30	-0.88 dBi
12	LTE band 38	0.5 dBi
13	LTE band 40	-0.72 dBi
14	LTE band 41	0.57 dBi
15	LTE band 66	1.89 dBi
16	LTE band 71	-4.4 dBi

Note: The data of antenna gain is provided by the customer may affect the validity of the test results in this report, and the impact and consequences of this shall be undertaken by the customer.

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3.4. Internal Identification of AE used during the test

AE ID*	Description	Note	dB*
AE1	RF cable	--	0.5
C1	USB Cable	SSM-A033A	--
A1	Adapter	TPA-141A050200UU01	--
A2	Adapter	UC13US	--
A3	Adapter	TPA-10120150UU	--
B1	Battery	GYPA	--

AE ID*: is used to identify the test sample in the lab internally.

dB*: is provided customer.

4. Reference Documents

4.1. Documents supplied by applicant

PICS/PIXIT, referring to Annex B for detailed information, is supplied by the client or manufacturer, which is the basis of testing.

4.2. Reference Documents for testing

The following documents listed in this section are referred for testing.

Reference	Title	Version
FCC Part 2	FREQUENCY ALLOCATIONS AND RADIO TREATY MATTERS; GENERAL RULES AND REGULATIONS	--
FCC 47 CFR Part 22	CELLULAR RADIOTELEPHONE SERVICE	--
FCC 47 CFR Part 24	BROADBAND PCS	--
FCC 47 CFR Part 27	Miscellaneous wireless communications services	--
FCC 47 CFR Part 90	Private Land Mobile Radio Services	--
RSS-Gen Issue 5	RSS-Gen —General Requirements For Compliance Of Radio Apparatus	2021-02
RSS-130 Issue 2	Equipment Operating in the Frequency Bands 617-652 MHz, 663-698 MHz, 698-756 MHz and 777-787 MHz	2019-02
RSS-132 Issue 4	Cellular Systems Operating in the Bands 824-849 MHz and 869-894 MHz	2023-01
RSS-133 Issue 7	Personal Communications Service Equipment Operating in the Bands 1850-1915 MHz and 1930-1995 MHz	2024-07
RSS-139 Issue 4	Advanced Wireless Services Equipment Operating in the Bands 1710-1780 MHz and 2110-2200 MHz	2022-09
RSS-140 Issue 1	Equipment Operating In The Public Safety Broadband Frequency Bands 758-768 Mhz And 788-798 Mhz	2018-04
RSS-195 Issue 2	Wireless Communication Service (WCS) Equipment Operating In The Bands 2305-2320 Mhz And 2345-2360 Mhz	2014-04
RSS-199 Issue 4	Broadband Radio Service (BRS) Equipment Operating in the Band 2500-2690 MHz	2023-07
ANSI C63.26	American National Standard Of Procedures For Compliance Testing Of Licensed Transmitters Used In Licensed Radio	2015
KDB 971168 D01	Measurement Guidance For Certification Of Licensed Digital Transmitters	v03r01
Note: FCC 47 CFR Part 2 and KDB 971168 D01 is not A2LA certified.		

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5. Test Equipments Utilized

5.1. RF Test System

No.	Equipment	Model	SN	HW Version	SW Version	Manufac ture	Cal. Interv al	Cal.Due e Date
1	Universal Radio Communication Tester	CMW500	152395	--	--	R&S	1 Year	2026-06-15
2	Microstrip power divider	XBGF-G2A01-N	200827-4-3	--	--	Xi'an Xingbo Electronic Technology Co., Ltd	--	--

5.2. RSE Test System

No.	Equipment	Model	SN	HW Version	SW Version	Manufa cture	Cal.Due Date
1	Universal Radio Communication Tester	CMW500	128181	--	--	R&S	2025-06-28
2	Test Receiver	ESU40	100350	01	4.43 SP3	R&S	2025-06-28
3	Ultra-wideband Log Periodic Antenna	VULB 9163	9163-586	--	--	Schwarzbeck	2026-10-28
4	Double Ridged Guide Antenna	9120D	9120D-1103	--	--	Schwarzbeck	2026-05-13
5	Ultra-wideband Log Periodic Antenna	VULB 9163	00995	--	--	Schwarzbeck	2025-09-11
6	Double Ridged Guide Antenna	9120D	9120D-1083	--	--	Schwarzbeck	2026-11-08
7	High gain horn antenna	DATE 1152	LM7127			ETS	2026-09-30
8	Generator	SMU 200A	104517	--	--	R&S	2026-06-15
9	Amplifier1	SCU-08F1	8320027	--	--	R&S	--
10	Amplifier2	SCU-18F	180093	--	--	R&S	--
11	Test Receiver	ESW 26	101382	00	1.50 SP1	R&S	2025-06-28

5.3. Climate Chamber

No.	Name	Type	SN	HW Version	SW Version	Manufa cture	Cal. Interv al	Cal.Due Date
-----	------	------	----	------------	------------	--------------	----------------	--------------

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1	High and low temperature box	VT4002	518602722023003	--	--	KQSN	1 Year	2025-06-28
---	------------------------------	--------	-----------------	----	----	------	--------	------------

5.4. Anechoic chamber Vibration table

No.	Name	Type	SN	HW Version	SW Version	Manufacture	Cal.Due Date
1	Fully-Anechoic Chamber	FAC-5	--	--	--	TDK	2027-11-04
2	Anechoic Chamber	SAC-10	--	--	--	TDK	2027-11-05

5.5. Test software

No.	Name	version	SN	Manufacture
1	EMC32	V9.26.01	--	R&S
2	EMC 32	V10.20.01	--	R&S
3	2/3/4G-FCC/IC automated testing software	V2.1.5	--	Beijing Zhiwang Xince Technology Co., Ltd.

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6. Test Results

6.1. Summary of Test Results

A brief summary of the tests carried out is shown as following.

LTE Band 2

FCC Rules	IC Rules	Name of Test	Result
2.1046/24.232(c)	RSS-133 5.5	Output Power/EIRP	PASS
2.1053/24.238(a)	RSS-133 5.6	Emission Limit	PASS(Note 2)
2.1055/24.235	RSS-133 5.4	Frequency Stability	PASS(Note 2)
2.1049	RSS-GEN 6.7	Occupied Bandwidth	PASS(Note 2)
2.1049	RSS-GEN 6.7	Emission Bandwidth	PASS(Note 2)
2.1051/24.238(a)	RSS-133 5.6	Band Edge Compliance	PASS(Note 2)
2.1051/24.238(a)	RSS-133 5.6	Conducted Spurious Emission	PASS(Note 2)
24.232 (d)	RSS-133 5.5	Peak to Average Power Ratio	PASS(Note 2)

LTE Band 4

FCC Rules	IC Rules	Name of Test	Result
2.1046/27.50(d)(4)	RSS-139 5.5	Output Power/EIRP	PASS
2.1053/27.53(h)	RSS-139 5.6	Emission Limit	PASS(Note 2)
2.1055/27.54	RSS-139 5.4	Frequency Stability	PASS(Note 2)
2.1049	RSS-GEN 6.7	Occupied Bandwidth	PASS(Note 2)
2.1049	RSS-GEN 6.7	Emission Bandwidth	PASS(Note 2)
2.1051/27.53(h)	RSS-139 5.6	Band Edge Compliance	PASS(Note 2)
2.1051/27.53(h)	RSS-139 5.6	Conducted Spurious Emission	PASS(Note 2)
27.50(d)(5)	RSS-139 5.5	Peak to Average Power Ratio	PASS(Note 2)

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LTE Band 5

FCC Rules	IC Rules	Name of Test	Result
2.1046/22.913(a)	RSS-132 5.4	Output Power/ERP	PASS
2.1053/22.917(a)	RSS-132 5.5	Emission Limit	PASS(Note 2)
2.1055/22.355	RSS-132 5.3	Frequency Stability	PASS(Note 2)
2.1049	RSS-GEN 6.7	Occupied Bandwidth	PASS(Note 2)
2.1049	RSS-GEN 6.7	Emission Bandwidth	PASS(Note 2)
2.1051/22.917(a)	RSS-132 5.5	Band Edge Compliance	PASS(Note 2)
2.1051/22.917(a)	RSS-132 5.5	Conducted Spurious Emission	PASS(Note 2)
N/A	RSS-132 5.4	Peak to Average Power Ratio	PASS(Note 2)

LTE Band 7

FCC Rules	IC Rules	Name of Test	Result
2.1046/27.50(h)	RSS-199 5.5	Output Power/EIRP	PASS
2.1053/27.53(m)	RSS-199 5.6	Emission Limit	PASS
2.1055/27.54	RSS-199 5.4	Frequency Stability	PASS(Note 2)
2.1049	RSS-GEN 6.7	Occupied Bandwidth	PASS(Note 2)
2.1049	RSS-GEN 6.7	Emission Bandwidth	PASS(Note 2)
2.1051/27.53(m)	RSS-199 5.6	Band Edge Compliance	PASS(Note 2)
2.1051/27.53(m)	RSS-199 5.6	Conducted Spurious Emission	PASS(Note 2)
N/A	RSS-199 5.5	Peak to Average Power Ratio	PASS(Note 2)

LTE Band 12

FCC Rules	IC Rules	Name of Test	Result
2.1046/27.50(c)(10)	RSS 130 4.6	Output Power/ERP	PASS

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2.1053/27.53(g)	RSS 130 4.7	Emission Limit	PASS(Note 2)
2.1055/27.54	RSS 130 4.5	Frequency Stability	PASS(Note 2)
2.1049	RSS-GEN 6.7	Occupied Bandwidth	PASS(Note 2)
2.1049	RSS-GEN 6.7	Emission Bandwidth	PASS(Note 2)
2.1051/27.53(g)	RSS 130 4.7	Band Edge Compliance	PASS(Note 2)
2.1051/27.53(g)	RSS 130 4.7	Conducted Spurious Emission	PASS(Note 2)
N/A	RSS 130 4.6	Peak to Average Power Ratio	PASS(Note 2)

LTE Band 13

FCC Rules	IC Rules	Name of Test	Result
2.1046/27.50(b)(10)	RSS 130 4.6	Output Power/ERP	PASS
2.1053/27.53(c)(2)/27.53(f)	RSS 130 4.7	Emission Limit	PASS(Note 2)
2.1055/27.54	RSS 130 4.5	Frequency Stability	PASS(Note 2)
2.1049	RSS-GEN 6.7	Occupied Bandwidth	PASS(Note 2)
2.1049	RSS-GEN 6.7	Emission Bandwidth	PASS(Note 2)
2.1051/27.53(c)(2)/27.53(f)	RSS 130 4.7	Band Edge Compliance	PASS(Note 2)
2.1051/27.53(c)(2)/27.53(f)	RSS 130 4.7	Conducted Spurious Emission	PASS(Note 2)
N/A	RSS 130 4.6	Peak to Average Power Ratio	PASS(Note 2)

LTE Band 14

FCC Rules	IC Rules	Name of Test	Result
2.1046/90.542(a)(7)	RSS 140 4.3	Output Power and EIRP/ERP	PASS
2.1053/90.543(e)/90.543(f)	RSS 140 4.4	Emission Limit	PASS(Note 2)
2.1055/90.539	RSS 140 4.2	Frequency Stability	PASS(Note 2)
2.1049	RSS-GEN 6.7	Occupied Bandwidth	PASS(Note 2)

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2.1049	RSS-GEN 6.7	Emission Bandwidth	PASS(Note 2)
2.1051/90.543(e)/90.543(f)	RSS 140 4.4	Band Edge Compliance	PASS(Note 2)
2.1051/90.543(e)/90.543(f)	RSS 140 4.4	Conducted Spurious Emission	PASS(Note 2)
N/A	RSS 140 4.3	Peak to Average Power Ratio	PASS(Note 2)

LTE Band 17

FCC Rules	IC Rules	Name of Test	Result
2.1046/27.50(c)(10)	RSS 130 4.6	Output Power/ERP	PASS
2.1053/27.53(g)	RSS 130 4.7	Emission Limit	PASS(Note 2)
2.1055/27.54	RSS 130 4.5	Frequency Stability	PASS(Note 2)
2.1049	RSS-GEN 6.7	Occupied Bandwidth	PASS(Note 2)
2.1049	RSS-GEN 6.7	Emission Bandwidth	PASS(Note 2)
2.1051/27.53(g)	RSS 130 4.7	Band Edge Compliance	PASS(Note 2)
2.1051/27.53(g)	RSS 130 4.7	Conducted Spurious Emission	PASS(Note 2)
N/A	RSS 130 4.6	Peak to Average Power Ratio	PASS(Note 2)

LTE Band 25

FCC Rules	IC Rules	Name of Test	Result
2.1046/24.232(c)	RSS-133 5.5	Output Power and EIRP/ERP	PASS
2.1053/24.238(a)	RSS-133 5.6	Emission Limit	PASS(Note 2)
2.1055/24.235	RSS-133 5.4	Frequency Stability	PASS(Note 2)
2.1049	RSS-GEN 6.7	Occupied Bandwidth	PASS(Note 2)
2.1049	RSS-GEN 6.7	Emission Bandwidth	PASS(Note 2)
2.1051/24.238(a)	RSS-133 5.6	Band Edge Compliance	PASS(Note 2)
2.1051/24.238(a)	RSS-133 5.6	Conducted Spurious Emission	PASS(Note 2)

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24.232 (d)	RSS-133 5.5	Peak to Average Power Ratio	PASS(Note 2)
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LTE Band 26(Part 22)

FCC Rules	IC Rules	Name of Test	Result
2.1046/22.913(a)	RSS-132 5.4	Output Power/ERP	PASS
2.1053/22.917(a)	RSS-132 5.5	Emission Limit	PASS(Note 2)
2.1055/22.355	RSS-132 5.3	Frequency Stability	PASS(Note 2)
2.1049	RSS-GEN 6.7	Occupied Bandwidth	PASS(Note 2)
2.1049	RSS-GEN 6.7	Emission Bandwidth	PASS(Note 2)
2.1051/22.917(a)	RSS-132 5.5	Band Edge Compliance	PASS(Note 2)
2.1051/22.917(a)	RSS-132 5.5	Conducted Spurious Emission	PASS(Note 2)
N/A	RSS-132 5.4	Peak to Average Power Ratio	PASS(Note 2)

LTE Band 26(Part 90)

FCC Rules	IC Rules	Name of Test	Result
2.1046/90.635(b)	N/A	Output Power and EIRP/ERP	PASS
2.1053/90.691	N/A	Emission Limit	PASS(Note 2)
2.1055/90.213(a)	N/A	Frequency Stability	PASS(Note 2)
2.1049	N/A	Occupied Bandwidth	PASS(Note 2)
2.1049	N/A	26dB Emission Bandwidth	PASS(Note 2)
2.1051/90.691	N/A	Band Edge Compliance	PASS(Note 2)
2.1051/90.691	N/A	Conducted Spurious Emission	PASS(Note 2)
N/A	N/A	Peak to Average Power Ratio	PASS(Note 2)

LTE Band 30

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FCC Rules	IC Rules	Name of Test	Result
2.1046/27.50(a)	RSS-195 5.5	Output Power and EIRP/ERP	PASS
2.1053/27.53(a)	RSS-195 5.6	Emission Limit	PASS(Note 2)
2.1055/27.54	RSS-195 5.4	Frequency Stability	PASS(Note 2)
2.1049	RSS-GEN 6.7	Occupied Bandwidth	PASS(Note 2)
2.1049	RSS-GEN 6.7	26dB Emission Bandwidth	PASS(Note 2)
2.1051/27.53(a)	RSS-195 5.6	Band Edge Compliance	PASS(Note 2)
2.1051/27.53(a)	RSS-195 5.6	Conducted Spurious Emission	PASS(Note 2)
27.5	RSS-195 5.5	Peak to Average Power Ratio	PASS(Note 2)

LTE Band 38

FCC Rules	IC Rules	Name of Test	Result
2.1046/27.50(h)	RSS 199 5.5	Output Power/EIRP	PASS
2.1053/27.53(m)	RSS 199 5.6	Emission Limit	PASS(Note 2)
2.1055/27.54	RSS 199 5.4	Frequency Stability	PASS(Note 2)
2.1049	RSS-GEN 6.7	Occupied Bandwidth	PASS(Note 2)
2.1049	RSS-GEN 6.7	Emission Bandwidth	PASS(Note 2)
2.1051/27.53(m)	RSS 199 5.6	Band Edge Compliance	PASS(Note 2)
2.1051/27.53(m)	RSS 199 5.6	Conducted Spurious Emission	PASS(Note 2)
N/A	RSS 199 5.5	Peak to Average Power Ratio	PASS(Note 2)

LTE Band 40

FCC Rules	IC Rules	Name of Test	Result
2.1046/27.50(a)	RSS-195 5.5	Output Power/EIRP	PASS
2.1053/27.53(a)	RSS-195 5.6	Emission Limit	PASS(Note 2)

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2.1055/27.54	RSS-195 5.4	Frequency Stability	PASS(Note 2)
2.1049	RSS-GEN 6.7	Occupied Bandwidth	PASS(Note 2)
2.1049	RSS-GEN 6.7	Emission Bandwidth	PASS(Note 2)
2.1051/27.53(a)	RSS-195 5.6	Band Edge Compliance	PASS(Note 2)
2.1051/27.53(a)	RSS-195 5.6	Conducted Spurious Emission	PASS(Note 2)
27.5	RSS-195 5.5	Peak to Average Power Ratio	PASS(Note 2)
27.50(a)	/	Duty cycle	PASS(Note 2)

LTE Band 41

FCC Rules	IC Rules	Name of Test	Result
2.1046/27.50(h)	RSS 199 5.5	Output Power/EIRP	PASS
2.1053/27.53(m)	RSS 199 5.6	Emission Limit	PASS(Note 2)
2.1055/27.54	RSS 199 5.4	Frequency Stability	PASS(Note 2)
2.1049	RSS-GEN 6.7	Occupied Bandwidth	PASS(Note 2)
2.1049	RSS-GEN 6.7	Emission Bandwidth	PASS(Note 2)
2.1051/27.53(m)	RSS 199 5.6	Band Edge Compliance	PASS(Note 2)
2.1051/27.53(m)	RSS 199 5.6	Conducted Spurious Emission	PASS(Note 2)
N/A	RSS 199 5.5	Peak to Average Power Ratio	PASS(Note 2)

LTE Band 66

FCC Rules	IC Rules	Name of Test	Result
27.50(d)(4)	RSS-139 5.5	Output Power/EIRP	PASS
2.1053/27.53(h)	RSS-139 5.6	Emission Limit	PASS(Note 2)
2.1055/27.54	RSS-139 5.4	Frequency Stability	PASS(Note 2)
2.1049	RSS-GEN 6.7	Occupied Bandwidth	PASS(Note 2)

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2.1049	RSS-GEN 6.7	Emission Bandwidth	PASS(Note 2)
2.1051/27.53(h)	RSS-139 5.6	Band Edge Compliance	PASS(Note 2)
2.1051/27.53(h)	RSS-139 5.6	Conducted Spurious Emission	PASS(Note 2)
27.50(d)(5)	RSS-139 5.5	Peak to Average Power Ratio	PASS(Note 2)

LTE Band 71

FCC Rules	IC Rules	Name of Test	Result
27.50(c)(10)	RSS 130 4.6	Output Power/EIRP	PASS
2.1053/27.53(g)	RSS 130 4.7	Emission Limit	PASS(Note 2)
2.1055/27.54	RSS 130 4.5	Frequency Stability	PASS(Note 2)
2.1049	RSS-GEN 6.7	Occupied Bandwidth	PASS(Note 2)
2.1049	RSS-GEN 6.7	Emission Bandwidth	PASS(Note 2)
2.1051/27.53(g)	RSS 130 4.7	Band Edge Compliance	PASS(Note 2)
2.1051/27.53(g)	RSS 130 4.7	Conducted Spurious Emission	PASS(Note 2)
N/A	RSS 130 4.6	Peak to Average Power Ratio	PASS(Note 2)

Note1:

The T8F1C, manufactured by Shanghai Sunmi Technology Co.,Ltd. is a variant product for testing.
This project is a variant project based on the original report 24T04I300217-051-V2 and 24B02W000043-001 with below changes:

- Added RFID function.
- Modified 2/3/4G Div Antenna and WIFI Antenna. Remove 1 NFC, Add RFID Antenna.
- PCB Changes,
- Removed: 8 Pin in behind.
- Mechanical shell changes.

Type of Service	Model Name	Super capacitor	pogopin	NFC	RFID
Original	T8F1B	Yes	8 Pin in behind & 6 pin in bottom	Two-sided	No
Variant	T8F1C	No	6 Pin in bottom	Under screen	Yes

According to the Product Change Description, we tested Output Power and the worst mode of radiated spurious emission in the original report, and the test data was recorded in the report.

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Note 2:

The test data is reported by reference to 24T04I300217-051-V2 and 24B02W000043-001.

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6.2. Output Power and EIRP/ERP

Specifications:	FCC Part 22.913(a) (5)/ 24.232(c)/27.50(a)/ 27.50(b)(10)/ 27.50(c)(10) / 27.50(d) (4)/ 27.50(h)/90.635(b)/90.542(a)(7) RSS-130 4.6, RSS-132 5.4, RSS-133 5.5, RSS-139 5.5, RSS-140 4.3, RSS-195 5.5
DUT Serial Number:	862072070057829;862072070057837
Test conditions:	Ambient Temperature:15°C-35°C Relative Humidity:30%RH-60%RH Air pressure: 86kPa-106kPa
Test Results:	Pass

6.2.1. Measurement Limit

FCC §22.913(a) (5) The ERP of mobile transmitters and auxiliary test transmitters must not exceed 7 watts.
FCC §24.232(c) Mobile and portable stations are limited to 2 watts EIRP and the equipment must employ a means for limiting power to the minimum necessary for successful communications.

FCC §90.635(b) The maximum output power of the transmitter for mobile stations is 100 watts (20 dBw).

FCC §90.542(a)(7) Portable stations (hand-held devices) transmitting in the 758-768 MHz band and the 788-798 MHz band are limited to 3 watts ERP.

FCC §27.50(a) For mobile and portable stations transmitting in the 2305-2315 MHz band or the 2350-2360 MHz band, the average EIRP must not exceed 50 milliwatts within any 1 megahertz of authorized bandwidth, except that for mobile and portable stations compliant with 3GPP LTE standards or another advanced mobile broadband protocol that avoids concentrating energy at the edge of the operating band the average EIRP must not exceed 250 milliwatts within any 5 megahertz of authorized bandwidth but may exceed 50 milliwatts within any 1 megahertz of authorized bandwidth. For mobile and portable stations using time division duplexing (TDD) technology, the duty cycle must not exceed 38 percent in the 2305-2315 MHz and 2350-2360 MHz bands. Mobile and portable stations using FDD technology are restricted to transmitting in the 2305-2315 MHz band. Power averaging shall not include intervals in which the transmitter is off.

FCC §27.50(b)(10) 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.

FCC §27.50(c)(10) 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.

FCC §27.50(d) (4) Fixed, mobile, and portable (hand-held) stations operating in the 1710–1755 MHz band is limited to 1 watt EIRP.

FCC §27.50(h):Mobile and other user stations. Mobile stations are limited to 2.0 watts EIRP. All user stations are limited to 2.0 watts transmitter output power.

RSS 130 4.6 Frequency bands 698-756 MHz and 777-787 MHz

The e.r.p. shall not exceed 30 watts for mobile equipment and outdoor fixed subscriber equipment. The e.r.p. shall not exceed 3 watts for portable equipment and indoor fixed subscriber equipment.

For base and fixed equipment other than fixed subscriber equipment, refer to SRSP-518 for the e.i.r.p.

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limits.

RSS-132 5.4 The transmitter output power shall be measured in terms of average power. The equivalent radiated power (e.r.p.) shall not exceed 7 watts for mobile equipment and 3 watts for portable equipment.

RSS-133 5.5 The maximum power spectral density of the equipment, measured in terms of average values, shall comply with the limits specified below. Equipment type: Subscriber equipment, Maximum power spectral density: 2 W /channel bandwidth e.i.r.p.

RSS-139 5.5 The maximum output power of the equipment shall comply with the limits specified below. In the tables, maximum power refers to the equivalent isotropically radiated power (e.i.r.p.) or total radiated power (TRP), measured in terms of average value. Equipment type: Subscriber equipment, Maximum power spectral density: 30 dBm e.i.r.p./channel bandwidth.

RSS-199 5.5 The maximum output power of the equipment shall comply with the limits specified in table 3. In this table, maximum power refers to the equivalent isotropically radiated power (e.i.r.p.) or total radiated power (TRP), measured in terms of average values.

Subscriber equipment other than fixed subscriber equipment shall not exceed an e.i.r.p of 2W per channel bandwidth.

RSS-140 4.3 The e.r.p. for portable equipment including handheld devices shall not exceed 3 W.

RSS-195 5.5 The e.i.r.p. of mobile or portable equipment transmitting in the band 2305-2315 MHz or the band 2350-2360 MHz, employing 3GPP LTE (Third Generation Partnership Project Long Term Evolution) standards, shall not exceed 250 mW within any 5 MHz bandwidth. For other technologies, the e.i.r.p. shall not exceed 50 mW within any 1 MHz bandwidth

6.2.2. Method of Measurements

Method of measurements please refer to KDB971168 D01 v03 clause 5.

The EUT was set up for the max output power with pseudo random data modulation.

The power was measured with Rhode & Schwarz base station CMW500.

These measurements were done at 3 frequencies.(bottom, middle and top of operational frequency range).

1. The transmitter output port was connected to base station.
2. Set the EUT at maximum power through base station.
3. Select lowest, middle, and highest channels for each band and different modulation.
4. Measure and record maximum average power for other modulation signal.
5. During the process of testing, the EUT was controlled Rhode & Schwarz Digital Radio.
6. Communication tester to ensure max power transmission and proper modulation.
7. This result contains output power and EIRP measurements for the EUT. In all cases, output power is within the specified limits.

$EIRP = \text{Conducted power} + \text{Gain}$, $ERP = EIRP - 2.15 \text{dBi}$.

6.2.3. Test procedures

The transmitter output power was connected to calibrated attenuator, the other end of which was connected to signal analyzer. Transmitter output power was read off the power in dBm. The power outputs at the transmitter antenna port was determined by adding the value of attenuator to the signal analyzer reading.

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6.2.4. Measurement Uncertainty

Expanded Uncertainty	0.6dB (k=2)
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6.2.5. Test Setup

6.2.6. Test result

LTE B2			Maximum Conducted Power (dBm)			
Modulation	RB	RB Offset	Tune up	1.4MHz		
				Channel/Frequency(MHz)		
				18607/1850.7	18900/1880	19193/1909.3
QPSK	1	Low	23.50	22.09	22.35	22.16
		Middle		21.79	21.90	22.00
		High		21.78	21.69	21.69
	50%	Low	23.50	21.77	22.01	21.65
		Middle		22.02	22.25	21.98
		High		21.94	21.94	21.95
	100%	/	22.50	21.11	20.91	21.23
16QAM	1	Low	22.50	21.23	21.35	20.93
		Middle		21.25	21.46	21.12
		High		21.34	21.20	21.04
	50%	Low	22.50	21.01	20.61	20.62
		Middle		21.15	21.03	20.71
		High		21.02	21.10	20.98
	100%	/	21.50	20.00	20.14	19.75
64QAM	1	Low	21.50	20.01	20.12	20.02
		Middle		19.96	20.02	20.20
		High		19.83	19.85	20.03
	5	Low	21.50	20.04	19.87	20.14
		Middle		19.96	19.88	20.08

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		High		19.97	20.15	20.13
	100%	/	20.50	19.01	19.09	18.97
Modulation	RB	RB Offset	Tune up	3MHz		
				Channel/Frequency(MHz)		
				18615/1851.5	18900/1880	19185/1908.5
QPSK	1	Low	23.50	22.07	22.20	22.07
		Middle		21.84	21.90	22.04
		High		21.76	21.70	21.66
	50%	Low	22.50	20.83	21.05	20.68
		Middle		21.17	21.28	21.04
		High		21.00	20.97	21.16
	100%	/	22.50	21.18	20.96	21.10
16QAM	1	Low	22.50	21.21	21.24	20.91
		Middle		21.34	21.28	21.08
		High		21.34	21.10	21.02
	50%	Low	21.50	20.17	19.81	19.67
		Middle		20.25	20.11	19.76
		High		20.13	20.14	20.01
	100%	/	21.50	19.97	20.13	19.73
64QAM	1	Low	21.50	20.03	20.13	20.04
		Middle		20.05	20.00	20.26
		High		19.91	20.00	20.06
	50%	Low	20.50	19.20	19.03	19.30
		Middle		19.14	19.06	19.27
		High		19.13	19.27	19.30
	100%	/	20.50	19.09	19.22	19.09
Modulation	RB	RB Offset	Tune up	5MHz		
				Channel/Frequency(MHz)		
				18625/1852.5	18900/1880	19175/1907.5
QPSK	1	Low	23.50	22.11	22.28	22.12
		Middle		21.87	21.95	22.09
		High		21.81	21.76	21.75
	50%	Low	22.50	20.88	21.14	20.75
		Middle		21.12	21.42	21.11
		High		21.06	21.05	21.08
	100%	/	22.50	21.13	20.87	21.19
16QAM	1	Low	22.50	21.29	21.30	20.98
		Middle		21.28	21.43	21.14
		High		21.39	21.17	21.07
	50%	Low	21.50	20.11	19.74	19.73

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		Middle		20.16	20.18	19.83
		High		20.08	20.23	20.08
	100%	/	21.50	20.02	20.22	19.80
64QAM	1	Low	21.50	19.96	20.07	19.97
		Middle		19.99	19.95	20.20
		High		19.86	19.93	20.01
	50%	Low	20.50	19.14	18.97	19.24
		Middle		19.08	18.99	19.20
		High		19.08	19.18	19.23
	100%	/	20.50	19.04	19.13	19.02
Modulation	RB	RB Offset	Tune up	10MHz		
				Channel/Frequency(MHz)		
				18650/1855	18900/1880	19150/1905
QPSK	1	Low	23.50	22.01	22.30	22.20
		Middle		21.92	22.00	22.08
		High		21.92	21.81	21.65
	50%	Low	22.50	20.95	21.09	20.81
		Middle		21.18	21.39	21.04
		High		20.96	21.07	21.09
	100%	/	22.50	21.12	20.88	21.11
16QAM	1	Low	22.50	21.17	21.20	20.91
		Middle		21.19	21.39	21.17
		High		21.32	21.19	21.11
	50%	Low	21.50	20.03	19.84	19.76
		Middle		20.13	20.07	19.82
		High		20.05	20.28	20.09
	100%	/	21.50	20.10	20.18	19.72
64QAM	1	Low	21.50	19.93	20.07	19.77
		Middle		19.96	19.94	20.17
		High		19.87	19.91	19.97
	50%	Low	20.50	19.12	18.93	19.25
		Middle		19.05	18.94	19.16
		High		19.05	19.13	19.19
	100%	/	20.50	19.02	19.09	18.97
Modulation	RB	RB Offset	Tune up	15MHz		
				Channel/Frequency(MHz)		
				18675/1857.5	18900/1880	19125/1902.5
QPSK	1	Low	23.50	22.12	22.31	22.13
		Middle		21.96	21.97	22.08
		High		21.82	21.77	21.70

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	50%	Low	22.50	20.88	20.96	20.71
		Middle		21.21	21.21	21.00
		High		20.94	21.03	21.14
	100%	/	22.50	21.16	21.04	21.07
16QAM	1	Low	22.50	21.15	21.17	20.99
		Middle		21.28	21.25	21.14
		High		21.29	21.17	21.08
	50%	Low	21.50	20.12	19.86	19.72
		Middle		20.18	20.03	19.79
		High		20.08	20.05	20.05
	100%	/	21.50	19.93	20.05	19.68
64QAM	1	Low	21.50	19.95	20.06	19.96
		Middle		19.99	19.94	20.20
		High		19.86	19.93	20.00
	50%	Low	20.50	19.15	18.98	19.25
		Middle		19.07	18.98	19.19
		High		19.08	19.18	19.23
	100%	/	20.50	19.05	19.14	19.01
Modulation	RB	RB Offset	Tune up	20MHz		
				Channel/Frequency(MHz)		
				18700/1860	18900/1880	19100/1900
QPSK	1	Low	23.50	22.16	22.37	22.18
		Middle		21.99	22.02	22.13
		High		21.87	21.83	21.79
	50%	Low	22.50	20.93	21.05	20.78
		Middle		21.16	21.35	21.07
		High		21.00	21.11	21.06
	100%	/	22.50	21.11	20.95	21.16
16QAM	1	Low	22.50	21.36	21.23	21.06
		Middle		21.22	21.40	21.20
		High		21.34	21.24	21.13
	50%	Low	21.50	20.06	19.79	19.78
		Middle		20.09	20.10	19.86
		High		20.03	20.14	20.12
	100%	/	21.50	19.98	20.14	19.75
64QAM	1	Low	21.50	19.88	20.00	19.89
		Middle		19.93	19.89	20.14
		High		19.81	19.86	19.95
	50%	Low	20.50	19.09	18.92	19.19
		Middle		19.01	18.91	19.12

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		High		19.03	19.09	19.16
	100%	/	20.50	19.00	19.05	18.94

LTE B4			Maximum Conducted Power (dBm)			
Modulation	RB	RB Offset	Tune up	1.4MHz		
				Channel/Frequency(MHz)		
				19957/1710.7	20175/1732.5	20393/1754.3
QPSK	1	Low	23.50	21.96	22.26	22.30
		Middle		22.18	22.33	22.20
		High		22.10	22.06	21.90
	50%	Low	23.50	22.24	22.31	22.24
		Middle		22.34	22.38	22.28
		High		22.19	22.29	22.29
	100%	/	22.50	21.36	21.35	21.30
16QAM	1	Low	22.50	21.07	21.40	21.10
		Middle		21.09	21.28	21.24
		High		21.14	21.20	21.12
	50%	Low	22.50	21.20	21.27	21.11
		Middle		21.31	21.11	21.19
		High		21.19	21.37	21.12
	100%	/	21.50	20.30	20.20	20.04
64QAM	1	Low	21.50	20.22	20.03	19.95
		Middle		20.08	20.16	20.11
		High		20.03	19.99	20.15
	50%	Low	21.50	19.82	19.89	19.86
		Middle		19.78	19.78	19.89
		High		19.95	19.94	19.73
	100%	/	20.50	19.02	18.99	18.82
Modulation	RB	RB Offset	Tune up	3MHz		
				Channel/Frequency(MHz)		
				19965/1711.5	20175/1732.5	20385/1753.5
QPSK	1	Low	23.50	21.96	22.19	22.23
		Middle		22.17	22.34	22.27
		High		22.11	22.12	21.90
	50%	Low	22.50	21.32	21.36	21.30
		Middle		21.46	21.59	21.38
		High		21.28	21.35	21.46
	100%	/	22.50	21.38	21.24	21.17
16QAM	1	Low	22.50	21.14	21.39	21.24
		Middle		21.16	21.23	21.30

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	50%	High	21.50	21.21	21.20	21.17
		Low		20.33	20.36	20.25
		Middle		20.42	20.40	20.27
		High		20.24	20.55	20.30
	100%	/	21.50	20.34	20.32	20.12
64QAM	1	Low	21.50	20.19	20.02	19.95
		Middle		20.13	20.16	20.17
		High		20.12	20.13	20.19
	50%	Low	20.50	18.97	19.09	19.03
		Middle		18.94	18.99	19.07
		High		19.15	19.02	18.79
	100%	/	20.50	18.94	18.89	18.76
Modulation	RB	RB Offset	Tune up	5MHz		
				Channel/Frequency(MHz)		
				19975/1712.5	20175/1732.5	20375/1752.5
QPSK	1	Low	23.50	22.03	22.23	22.26
		Middle		22.26	22.38	22.29
		High		22.13	22.13	21.96
	50%	Low	22.50	21.35	21.44	21.31
		Middle		21.44	21.51	21.41
		High		21.31	21.42	21.48
	100%	/	22.50	21.35	21.31	21.26
16QAM	1	Low	22.50	21.10	21.35	21.15
		Middle		21.12	21.21	21.26
		High		21.19	21.17	21.15
	50%	Low	21.50	20.30	20.40	20.22
		Middle		20.35	20.37	20.21
		High		20.21	20.50	20.26
	100%	/	21.50	20.32	20.28	20.16
64QAM	1	Low	21.50	20.17	19.98	19.90
		Middle		20.10	20.09	20.13
		High		20.08	20.07	20.13
	50%	Low	20.50	18.92	18.92	18.96
		Middle		18.90	18.95	19.01
		High		19.06	18.97	18.81
	100%	/	20.50	19.05	19.03	18.87
Modulation	RB	RB Offset	Tune up	10MHz		
				Channel/Frequency(MHz)		
				20000/1715	20175/1732.5	20350/1750
QPSK	1	Low	23.50	22.13	22.21	22.18

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		Middle		22.21	22.33	22.30
		High		22.02	22.08	22.06
		Low		21.22	21.49	21.28
	50%	Middle	22.50	21.38	21.58	21.48
		High		21.41	21.38	21.41
	100%	/	22.50	21.36	21.30	21.34
16QAM	1	Low	22.50	21.22	21.45	21.22
		Middle		21.21	21.29	21.23
		High		21.26	21.19	21.11
	50%	Low	21.50	20.38	20.30	20.19
		Middle		20.38	20.45	20.25
		High		20.24	20.45	20.25
	100%	/	21.50	20.24	20.32	20.17
	64QAM	Low	21.50	20.20	19.98	20.10
		Middle		20.14	20.10	20.16
		High		20.05	20.14	20.17
64QAM	50%	Low	20.50	18.94	19.03	18.95
		Middle		18.93	19.00	19.05
		High		19.09	19.02	18.87
	100%	/	20.50	19.07	19.07	18.92
Modulation	RB	RB Offset	Tune up	15MHz		
				Channel/Frequency(MHz)		
				20025/1717.5	20175/1732.5	20325/1747.5
QPSK	1	Low	23.50	22.14	22.22	22.19
		Middle		22.30	22.39	22.29
		High		22.03	22.09	22.01
	50%	Low	22.50	21.28	21.31	21.24
		Middle		21.47	21.37	21.37
		High		21.29	21.36	21.47
	100%	/	22.50	21.39	21.47	21.32
16QAM	1	Low	22.50	21.08	21.32	21.23
		Middle		21.14	21.11	21.23
		High		21.16	21.15	21.12
	50%	Low	21.50	20.39	20.42	20.18
		Middle		20.40	20.30	20.21
		High		20.29	20.27	20.22
	100%	/	21.50	20.15	20.15	20.05
64QAM	1	Low	21.50	20.19	19.97	20.09
		Middle		20.14	20.09	20.16
		High		20.05	20.09	20.16

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	50%	Low	20.50	18.95	19.04	18.96
		Middle		18.92	18.99	19.04
		High		19.09	19.02	18.87
	100%	/	20.50	19.08	19.08	18.91
Modulation	RB	RB Offset	Tune up	20MHz		
				Channel/Frequency(MHz)		
				20050/1720	20175/1732.5	20300/1745
QPSK	1	Low	23.50	22.18	22.38	22.21
		Middle		22.31	22.40	22.39
		High		22.16	22.18	22.14
	50%	Low	22.50	21.31	21.40	21.39
		Middle		21.49	21.51	21.43
		High		21.31	21.44	21.32
	100%	/	22.50	21.34	21.38	21.39
16QAM	1	Low	22.50	21.27	21.38	21.30
		Middle		21.11	21.29	21.29
		High		21.21	21.22	21.17
	50%	Low	21.50	20.37	20.32	20.24
		Middle		20.38	20.32	20.28
		High		20.19	20.36	20.21
	100%	/	21.50	20.20	20.24	20.12
64QAM	1	Low	21.50	20.18	19.91	20.19
		Middle		20.08	20.04	20.10
		High		20.00	20.05	20.15
	50%	Low	20.50	18.89	19.03	18.90
		Middle		18.86	18.92	18.97
		High		19.04	18.93	18.80
	100%	/	20.50	19.09	18.99	18.84

LTE B5			Maximum Conducted Power (dBm)			
Modulation	RB	RB Offset	Tune up	1.4MHz		
				Channel/Frequency(MHz)		
				20407/824.7	20525/836.5	20643/848.3
QPSK	1	Low	23.50	22.65	22.66	22.43
		Middle		22.59	22.72	22.32
		High		22.31	22.26	22.27
	50%	Low	23.50	22.17	22.40	22.48
		Middle		22.14	22.51	22.40
		High		22.08	22.52	22.42
	100%	/	22.50	21.21	21.37	21.27

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16QAM	1	Low	22.50	21.55	21.42	21.25
		Middle		21.57	21.48	21.21
		High		21.51	21.37	21.64
	50%	Low	22.50	21.59	20.92	21.52
		Middle		21.62	21.32	21.53
		High		21.23	21.38	21.28
	100%	/	21.50	20.31	20.57	20.23
64QAM	1	Low	21.50	20.39	20.40	20.75
		Middle		20.18	20.56	20.71
		High		20.22	20.17	20.53
	50%	Low	21.50	20.17	20.05	20.12
		Middle		20.24	19.86	20.27
		High		20.28	20.05	20.28
	100%	/	20.50	19.42	19.07	18.95
Modulation	RB	RB Offset	Tune up	3MHz		
				Channel/Frequency(MHz)		
				20415/825.5	20525/836.5	20635/847.5
QPSK	1	Low	23.50	22.67	22.54	22.30
		Middle		22.55	22.70	22.39
		High		22.32	22.26	22.33
	50%	Low	22.50	21.20	21.62	21.55
		Middle		21.20	21.75	21.57
		High		21.25	21.57	21.57
	100%	/	22.50	21.22	21.25	21.26
16QAM	1	Low	22.50	21.67	21.45	21.22
		Middle		21.66	21.41	21.17
		High		21.61	21.33	21.61
	50%	Low	21.50	20.74	20.00	20.58
		Middle		20.70	20.59	20.62
		High		20.34	20.43	20.34
	100%	/	21.50	20.43	20.73	20.33
64QAM	1	Low	21.50	20.41	20.42	20.78
		Middle		20.27	20.55	20.77
		High		20.36	20.32	20.57
	50%	Low	20.50	19.25	19.20	19.18
		Middle		19.43	19.05	19.47
		High		19.44	19.17	19.45
	100%	/	20.50	19.49	19.19	19.08
Modulation	RB	RB Offset	Tune up	5MHz		
				Channel/Frequency(MHz)		

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				20425/826.5	20525/836.5	20625/846.5
QPSK	1	Low	23.50	22.57	22.56	22.38
		Middle		22.60	22.75	22.38
		High		22.43	22.31	22.23
	50%	Low	22.50	21.27	21.57	21.61
		Middle		21.26	21.72	21.50
		High		21.15	21.59	21.58
	100%	/	22.50	21.21	21.26	21.18
16QAM	1	Low	22.50	21.55	21.35	21.15
		Middle		21.57	21.37	21.20
		High		21.54	21.35	21.65
	50%	Low	21.50	20.66	20.10	20.61
		Middle		20.67	20.48	20.61
		High		20.31	20.48	20.35
	100%	/	21.50	20.51	20.69	20.25
64QAM	1	Low	21.50	20.38	20.42	20.58
		Middle		20.24	20.54	20.74
		High		20.37	20.30	20.53
	50%	Low	20.50	19.23	19.16	19.19
		Middle		19.40	19.00	19.43
		High		19.41	19.12	19.41
	100%	/	20.50	19.47	19.15	19.03
Modulation	RB	RB Offset	Tune up	10MHz		
				Channel/Frequency(MHz)		
				20450/829	20525/836.5	20600/844
QPSK	1	Low	23.50	22.72	22.63	22.31
		Middle		22.67	22.77	22.62
		High		22.32	22.31	22.44
	50%	Low	22.50	21.21	21.53	21.59
		Middle		21.24	21.68	21.53
		High		21.12	21.63	21.55
	100%	/	22.50	21.27	21.37	21.47
16QAM	1	Low	22.50	21.26	21.47	21.49
		Middle		21.60	21.49	21.23
		High		21.56	21.42	21.67
	50%	Low	21.50	20.69	20.05	20.63
		Middle		20.63	20.47	20.65
		High		20.29	20.31	20.35
	100%	/	21.50	20.31	20.65	20.23
64QAM	1	Low	21.50	20.36	20.33	20.70

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		Middle		20.21	20.42	20.71
		High		20.38	20.28	20.51
	50%	Low	20.50	19.25	19.11	19.18
		Middle		19.36	18.97	19.39
		High		19.39	19.08	19.38
	100%	/	20.50	19.45	19.19	19.00

LTE B7			Maximum Conducted Power (dBm)			
Modulation	RB	RB Offset	Tune up	5MHz		
				Channel/Frequency(MHz)		
				20775/2502.5	21100/2535	21425/2567.5
QPSK	1	Low	23.50	22.25	22.35	22.09
		Middle		22.22	22.48	22.42
		High		22.09	22.31	22.04
	50%	Low	22.50	21.53	21.45	21.50
		Middle		21.58	21.63	21.54
		High		21.50	21.38	21.57
	100%	/	22.50	21.39	21.56	21.51
16QAM	1	Low	22.50	21.50	21.57	21.55
		Middle		21.54	21.52	21.48
		High		21.62	21.45	21.58
	50%	Low	21.50	20.10	19.99	20.00
		Middle		20.31	20.57	20.53
		High		20.42	20.33	20.41
	100%	/	21.50	20.45	20.45	20.33
64QAM	1	Low	21.50	20.52	20.44	20.23
		Middle		20.47	20.31	20.35
		High		20.44	20.55	20.39
	50%	Low	20.50	19.58	19.54	19.52
		Middle		19.55	19.40	19.36
		High		19.38	19.54	19.54
	100%	/	20.50	19.37	19.52	19.43
Modulation	RB	RB Offset	Tune up	10MHz		
				Channel/Frequency(MHz)		
				20800/2505	21100/2535	21400/2565
QPSK	1	Low	23.50	22.18	22.18	22.01
		Middle		22.26	22.48	22.42
		High		22.12	22.33	22.06
	50%	Low	22.50	21.54	21.57	21.52
		Middle		21.60	21.55	21.43

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		High		21.50	21.40	21.61
	100%	/	22.50	21.39	21.55	21.52
16QAM	1	Low	22.50	21.49	21.61	21.55
		Middle		21.56	21.57	21.46
		High		21.63	21.53	21.60
	50%	Low	21.50	20.08	20.11	20.01
		Middle		20.30	20.56	20.54
		High		20.44	20.37	20.40
	100%	/	21.50	20.44	20.47	20.33
64QAM	1	Low	21.50	20.52	20.43	20.24
		Middle		20.49	20.33	20.35
		High		20.44	20.57	20.40
	50%	Low	20.50	19.60	19.58	19.51
		Middle		19.53	19.41	19.35
		High		19.39	19.55	19.57
	100%	/	20.50	19.39	19.55	19.44
Modulation	RB	RB Offset	Tune up	15MHz		
				Channel/Frequency(MHz)		
				20825/2507.5	21100/2535	21375/2562.5
QPSK	1	Low	23.50	22.26	22.32	22.04
		Middle		22.32	22.58	22.41
		High		22.10	22.30	21.97
	50%	Low	22.50	21.54	21.54	21.51
		Middle		21.49	21.70	21.54
		High		21.49	21.37	21.47
	100%	/	22.50	21.42	21.52	21.50
16QAM	1	Low	22.50	21.47	21.64	21.55
		Middle		21.47	21.55	21.49
		High		21.62	21.53	21.58
	50%	Low	21.50	20.04	20.10	20.01
		Middle		20.30	20.52	20.52
		High		20.43	20.34	20.42
	100%	/	21.50	20.45	20.45	20.33
64QAM	1	Low	21.50	20.49	20.45	20.23
		Middle		20.48	20.32	20.36
		High		20.44	20.53	20.39
	50%	Low	20.50	19.58	19.57	19.53
		Middle		19.54	19.39	19.35
		High		19.39	19.55	19.55
	100%	/	20.50	19.37	19.52	19.43

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Modulation	RB	RB Offset	Tune up	20MHz		
				Channel/Frequency(MHz)		
				20850/2510	21100/2535	21350/2560
QPSK	1	Low	23.50	22.23	22.28	22.07
		Middle		22.31	22.54	22.39
		High		22.08	22.29	22.00
	50%	Low	22.50	21.51	21.49	21.47
		Middle		21.56	21.66	21.51
		High		21.46	21.52	21.54
	100%	/	22.50	21.39	21.47	21.46
16QAM	1	Low	22.50	21.45	21.60	21.50
		Middle		21.51	21.53	21.45
		High		21.60	21.50	21.56
	50%	Low	21.50	20.07	20.06	19.98
		Middle		20.27	20.54	20.49
		High		20.40	20.29	20.38
	100%	/	21.50	20.43	20.41	20.30
64QAM	1	Low	21.50	20.47	20.41	20.18
		Middle		20.44	20.30	20.32
		High		20.42	20.50	20.37
	50%	Low	20.50	19.55	19.53	19.50
		Middle		19.51	19.37	19.32
		High		19.36	19.50	19.51
	100%	/	20.50	19.35	19.48	19.40

LTE B12			Maximum Conducted Power (dBm)			
Modulation	RB	RB Offset	Tune up	1.4MHz		
				Channel/Frequency(MHz)		
				23017/699.7	23095/707.5	23173/715.3
QPSK	1	Low	23.50	22.76	22.81	22.73
		Middle		22.76	22.93	22.49
		High		22.52	22.80	22.83
	50%	Low	23.50	21.60	21.68	21.76
		Middle		21.77	21.87	21.70
		High		21.77	21.79	21.69
	100%	/	22.50	21.64	21.80	21.71
16QAM	1	Low	22.50	21.79	21.87	21.66
		Middle		21.85	21.75	21.90
		High		21.80	21.64	21.66
	50%	Low	22.50	20.52	20.71	20.72

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		Middle		20.65	20.87	20.79
		High		20.81	20.62	20.80
	100%	/	21.50	20.91	20.59	20.48
64QAM	1	Low	21.50	20.55	20.55	20.62
		Middle		20.52	20.32	20.59
		High		20.48	20.59	20.53
	50%	Low	21.50	19.95	20.26	20.05
		Middle		20.07	20.24	20.00
		High		20.18	20.12	20.18
	100%	/	20.50	19.30	19.63	19.41
Modulation	RB	RB Offset	Tune up	3MHz		
				Channel/Frequency(MHz)		
				23025/700.5	23095/707.5	23165/714.5
QPSK	1	Low	23.50	22.18	22.18	22.01
		Middle		22.26	22.48	22.42
		High		22.12	22.33	22.06
	50%	Low	22.50	21.54	21.57	21.52
		Middle		21.60	21.55	21.43
		High		21.50	21.40	21.61
	100%	/	22.50	21.39	21.55	21.52
16QAM	1	Low	22.50	21.49	21.61	21.55
		Middle		21.56	21.57	21.46
		High		21.63	21.53	21.60
	50%	Low	21.50	20.08	20.11	20.01
		Middle		20.30	20.56	20.54
		High		20.44	20.37	20.40
	100%	/	21.50	20.44	20.47	20.33
64QAM	1	Low	21.50	20.52	20.43	20.24
		Middle		20.49	20.33	20.35
		High		20.44	20.52	20.40
	50%	Low	20.50	19.60	19.58	19.51
		Middle		19.53	19.41	19.35
		High		19.39	19.55	19.57
	100%	/	20.50	19.39	19.55	19.44
Modulation	RB	RB Offset	Tune up	5MHz		
				Channel/Frequency(MHz)		
				23035/701.5	23095/707.5	23155/713.5
QPSK	1	Low	23.50	22.26	22.32	22.04
		Middle		22.32	22.58	22.41
		High		22.10	22.30	21.97

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	50%	Low	22.50	21.54	21.54	21.51
		Middle		21.49	21.70	21.54
		High		21.49	21.37	21.47
	100%	/	22.50	21.42	21.52	21.50
16QAM	1	Low	22.50	21.47	21.64	21.55
		Middle		21.47	21.55	21.49
		High		21.62	21.53	21.58
	50%	Low	21.50	20.04	20.10	20.01
		Middle		20.30	20.52	20.52
		High		20.43	20.34	20.42
	100%	/	21.50	20.45	20.45	20.33
64QAM	1	Low	21.50	20.49	20.45	20.23
		Middle		20.48	20.32	20.36
		High		20.44	20.53	20.39
	50%	Low	20.50	19.58	19.57	19.53
		Middle		19.54	19.39	19.35
		High		19.39	19.55	19.55
	100%	/	20.50	19.37	19.52	19.43
Modulation	RB	RB Offset	Tune up	10MHz		
				Channel/Frequency(MHz)		
				23060/704	23095/707.5	23130/711
QPSK	1	Low	23.50	22.76	22.81	22.73
		Middle		22.76	22.93	22.49
		High		22.52	22.80	22.83
	50%	Low	22.50	21.60	21.68	21.47
		Middle		21.77	21.87	21.70
		High		21.41	21.79	21.69
	100%	/	22.50	21.64	21.80	21.71
16QAM	1	Low	22.50	21.79	21.87	21.66
		Middle		21.85	21.75	21.90
		High		21.80	21.64	21.66
	50%	Low	21.50	20.52	20.71	20.72
		Middle		20.65	20.87	20.79
		High		20.81	20.62	20.80
	100%	/	21.50	20.91	20.59	20.48
64QAM	1	Low	21.50	20.55	20.55	20.62
		Middle		20.52	20.32	20.59
		High		20.48	20.59	20.53
	50%	Low	20.50	19.35	19.66	19.26
		Middle		19.47	19.64	19.40

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		High		19.58	19.52	19.58
	100%	/	20.50	19.30	19.63	19.41

LTE B13			Maximum Conducted Power (dBm)			
Modulation	RB	RB Offset	Tune up	5MHz		
				Channel/Frequency(MHz)		
				23205/779.5	23230/782	23255/784.5
QPSK	1	Low	23.50	22.89	23.03	22.81
		Middle		23.06	23.16	22.93
		High		22.92	22.89	22.80
	50%	Low	22.50	22.08	22.05	21.68
		Middle		22.05	22.20	21.87
		High		21.94	21.91	21.79
	100%	/	22.50	22.13	22.10	21.80
16QAM	1	Low	22.50	21.98	22.01	21.87
		Middle		21.70	21.68	21.75
		High		21.98	21.98	21.64
	50%	Low	21.50	20.56	20.55	20.71
		Middle		21.30	21.26	20.87
		High		21.09	21.06	20.62
	100%	/	21.50	20.55	20.53	20.59
64QAM	1	Low	21.50	21.07	21.09	20.55
		Middle		20.39	20.38	20.32
		High		20.62	20.63	20.59
	50%	Low	20.50	19.79	19.78	19.66
		Middle		19.33	19.31	19.64
		High		19.88	19.88	19.52
	100%	/	20.50	19.49	19.46	19.63
Modulation	RB	RB Offset	Tune up	10MHz		
				Channel/Frequency(MHz)		
				/	23230/782	/
QPSK	1	Low	23.50	/	22.99	/
		Middle		/	23.12	/
		High		/	22.88	/
	50%	Low	22.50	/	22.00	/
		Middle		/	22.16	/
		High		/	22.06	/
	100%	/	22.50	/	22.05	/
16QAM	1	Low	22.50	/	21.97	/
		Middle		/	21.66	/

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	50%	High	21.50	/	21.95	/
		Low		/	20.51	/
		Middle		/	21.28	/
		High		/	21.01	/
	100%	/	21.50	/	20.49	/
64QAM	1	Low	21.50	/	21.05	/
		Middle		/	20.36	/
		High		/	20.60	/
	50%	Low	20.50	/	19.74	/
		Middle		/	19.29	/
		High		/	19.83	/
	100%	/	20.50	/	19.42	/

LTE B14			Maximum Conducted Power (dBm)			
Modulation	RB	RB Offset	Tune up	5MHz		
				Channel/Frequency(MHz)		
				23305/790.5	23330/793	23355/795.5
QPSK	1	Low	23.50	23.30	23.16	22.81
		Middle		23.00	23.10	22.93
		High		22.94	22.97	22.80
	50%	Low	22.50	22.51	22.54	21.68
		Middle		22.31	22.16	21.87
		High		22.19	22.22	21.79
	100%	/	22.50	22.40	22.43	21.80
16QAM	1	Low	22.50	22.61	22.58	21.87
		Middle		22.59	22.61	21.75
		High		22.64	22.64	21.64
	50%	Low	22.50	21.28	21.29	20.71
		Middle		21.08	21.14	20.87
		High		21.39	21.42	20.62
	100%	/	22.50	21.42	21.44	20.59
64QAM	1	Low	22.50	21.42	21.40	21.67
		Middle		21.95	21.96	21.76
		High		22.00	21.99	21.68
	50%	Low	21.50	20.38	20.36	20.32
		Middle		20.63	20.65	20.56
		High		20.91	20.91	20.40
	100%	/	21.50	20.42	20.45	20.33
Modulation	RB	RB Offset	Tune up	10MHz		
				Channel/Frequency(MHz)		

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				/	23330/793	/
QPSK	1	Low	23.50	/	23.26	/
		Middle		/	22.96	/
		High		/	22.93	/
	50%	Low	22.50	/	22.46	/
		Middle		/	22.27	/
		High		/	22.34	/
	100%	/	22.50	/	22.35	/
16QAM	1	Low	22.50	/	22.57	/
		Middle		/	22.57	/
		High		/	22.61	/
	50%	Low	22.50	/	21.24	/
		Middle		/	21.10	/
		High		/	21.34	/
	100%	/	22.50	/	21.38	/
64QAM	1	Low	22.50	/	21.38	/
		Middle		/	21.93	/
		High		/	21.97	/
	50%	Low	21.50	/	20.31	/
		Middle		/	20.61	/
		High		/	20.86	/
	100%	/	21.50	/	20.38	/

LTE B17			Maximum Conducted Power (dBm)			
Modulation	RB	RB Offset	Tune up	5MHz		
				Channel/Frequency(MHz)		
				23755/706.5	23790/710	23825/713.5
QPSK	1	Low	23.50	22.91	22.79	22.43
		Middle		22.58	22.74	22.80
		High		22.79	22.90	22.45
	50%	Low	22.50	21.87	21.99	21.95
		Middle		21.78	22.05	21.96
		High		21.93	21.62	21.97
	100%	/	22.50	21.75	21.75	21.89
16QAM	1	Low	22.50	21.45	21.77	21.98
		Middle		21.79	21.81	21.94
		High		21.82	21.72	21.49
	50%	Low	21.50	20.61	20.88	20.69
		Middle		21.11	20.92	20.99
		High		20.69	20.91	20.80

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	100%	/	21.50	20.62	20.78	20.71
64QAM	1	Low	21.50	20.70	20.68	20.61
		Middle		20.77	20.59	20.78
		High		20.55	20.59	20.69
	50%	Low	20.50	19.70	19.85	19.78
		Middle		19.47	19.54	19.69
		High		19.34	19.78	19.74
	100%	/	20.50	19.34	19.86	19.60
Modulation	RB	RB Offset	Tune up	10MHz		
				Channel/Frequency(MHz)		
				23780/709	23790/710	23800/711
QPSK	1	Low	23.50	22.88	22.75	22.51
		Middle		22.54	22.70	22.75
		High		22.77	22.89	22.43
	50%	Low	22.50	21.84	21.94	21.91
		Middle		21.85	22.01	21.93
		High		21.90	21.77	22.04
	100%	/	22.50	21.72	21.70	21.85
16QAM	1	Low	22.50	21.43	21.73	21.93
		Middle		21.83	21.79	21.90
		High		21.80	21.69	21.47
	50%	Low	21.50	20.64	20.84	20.66
		Middle		21.09	20.94	20.96
		High		20.66	20.86	20.76
	100%	/	21.50	20.60	20.74	20.68
64QAM	1	Low	21.50	20.68	20.64	20.56
		Middle		20.73	20.57	20.74
		High		20.53	20.56	20.67
	50%	Low	20.50	19.67	19.81	19.75
		Middle		19.42	19.52	19.66
		High		19.79	19.73	19.70
	100%	/	20.50	19.28	19.82	19.57

LTE B25			Maximum Conducted Power (dBm)			
Modulation	RB	RB Offset	Tune up	1.4MHz		
				Channel/Frequency(MHz)		
				26047/1850.7	26365/1882,5	26683/1914.3
QPSK	1	Low	23.50	21.72	22.24	21.75
		Middle		22.34	22.25	22.24
		High		22.52	22.15	21.69

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	50%	Low	23.50	21.11	21.57	21.78
		Middle		21.61	21.65	21.14
		High		21.31	21.47	21.17
	100%	/	22.50	20.91	21.50	21.24
16QAM	1	Low	22.50	21.20	21.69	21.02
		Middle		21.28	21.85	21.51
		High		21.30	21.02	21.28
	50%	Low	22.50	20.49	20.42	20.09
		Middle		20.30	20.59	20.30
		High		20.13	20.12	20.57
	100%	/	21.50	20.32	20.38	19.82
64QAM	1	Low	21.50	20.52	20.29	19.76
		Middle		20.61	20.29	20.43
		High		20.34	20.24	20.43
	50%	Low	21.50	19.77	20.24	20.05
		Middle		19.85	19.92	19.98
		High		20.06	19.65	20.17
	100%	/	20.50	18.56	18.78	18.66
Modulation	RB	RB Offset	Tune up	3MHz		
				Channel/Frequency(MHz)		
				26055/1851.5	26365/1882.5	26675/1913.5
QPSK	1	Low	23.50	21.74	22.24	21.78
		Middle		22.34	22.27	22.28
		High		22.43	22.01	21.73
	50%	Low	22.50	20.95	21.64	20.76
		Middle		21.64	21.73	21.20
		High		21.47	21.54	21.33
	100%	/	22.50	21.05	21.69	21.39
16QAM	1	Low	22.50	21.45	21.93	21.27
		Middle		21.43	21.99	21.67
		High		21.44	21.18	21.43
	50%	Low	21.50	20.66	20.58	20.24
		Middle		20.35	20.66	20.36
		High		20.17	20.18	20.64
	100%	/	21.50	20.35	20.54	19.97
64QAM	1	Low	21.50	20.55	20.43	19.91
		Middle		20.69	20.43	20.59
		High		20.36	20.40	20.58
	50%	Low	20.50	19.22	19.68	19.48
		Middle		19.30	19.39	19.44

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		High		19.50	19.11	19.49
	100%	/	20.50	19.38	19.81	19.35
Modulation	RB	RB Offset	Tune up	5MHz		
				Channel/Frequency(MHz)		
				26065/1852.5	26365/1882.5	26665/1912.5
QPSK	1	Low	23.50	22.21	22.12	22.13
		Middle		22.66	22.83	22.39
		High		22.42	21.46	22.24
	50%	Low	22.50	21.50	21.58	21.37
		Middle		21.67	21.77	21.60
		High		21.31	21.45	21.59
	100%	/	22.50	21.64	21.67	21.71
16QAM	1	Low	22.50	21.66	21.77	21.66
		Middle		21.57	21.75	21.56
		High		21.45	21.64	21.61
	50%	Low	21.50	20.52	20.71	20.72
		Middle		20.65	20.87	20.72
		High		20.81	20.62	20.56
	100%	/	21.50	20.91	20.59	20.48
64QAM	1	Low	21.50	20.55	20.55	20.62
		Middle		20.52	20.32	20.59
		High		20.48	20.59	20.53
	50%	Low	20.50	19.35	19.66	19.26
		Middle		19.47	19.64	19.40
		High		19.58	19.52	19.51
	100%	/	20.50	19.30	19.63	19.41
Modulation	RB	RB Offset	Tune up	10MHz		
				Channel/Frequency(MHz)		
				26090/1855	26365/1882.5	26640/1910
QPSK	1	Low	23.50	21.74	22.23	21.76
		Middle		22.26	22.16	22.26
		High		22.52	22.16	21.70
	50%	Low	22.50	21.12	21.62	20.87
		Middle		21.63	21.53	21.03
		High		21.44	21.45	21.32
	100%	/	22.50	21.02	21.60	21.37
16QAM	1	Low	22.50	21.30	21.62	21.13
		Middle		21.42	21.34	21.62
		High		21.42	21.14	21.41
	50%	Low	21.50	20.51	20.47	20.11

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		Middle		20.20	20.49	20.22
		High		20.05	20.06	20.41
	100%	/	21.50	20.21	20.41	19.81
64QAM	1	Low	21.50	20.41	20.27	19.78
		Middle		20.57	20.32	20.45
		High		20.33	20.35	20.55
	50%	Low	20.50	19.22	19.68	19.44
		Middle		19.25	19.35	19.39
		High		19.48	19.07	19.45
	100%	/	20.50	19.34	19.24	19.31
Modulation	RB	RB Offset	Tune up	15MHz		
				Channel/Frequency(MHz)		
				26115/1857.5	26365/1882.5	26615/1907.5
QPSK	1	Low	23.50	21.82	22.21	21.79
		Middle		22.43	22.37	22.36
		High		22.61	22.24	21.72
	50%	Low	22.50	21.23	21.51	20.97
		Middle		21.63	21.79	21.25
		High		21.54	21.53	21.29
	100%	/	22.50	21.16	21.55	21.46
16QAM	1	Low	22.50	21.39	21.76	21.24
		Middle		21.33	21.76	21.65
		High		21.41	21.14	21.39
	50%	Low	21.50	20.58	20.57	20.22
		Middle		20.31	20.56	20.31
		High		20.15	20.14	20.61
	100%	/	21.50	20.33	20.50	19.92
64QAM	1	Low	21.50	20.49	20.40	19.88
		Middle		20.67	20.42	20.57
		High		20.33	20.36	20.54
	50%	Low	20.50	19.20	19.67	19.46
		Middle		19.26	19.33	19.39
		High		19.48	19.07	19.34
	100%	/	20.50	19.45	19.47	19.30
Modulation	RB	RB Offset	Tune up	20MHz		
				Channel/Frequency(MHz)		
				26140/1860	26365/1882.5	26590/1905
QPSK	1	Low	23.50	21.82	22.32	21.79
		Middle		22.43	22.37	22.36
		High		22.61	22.24	21.92

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	50%	Low	22.50	21.23	21.56	20.97
		Middle		21.63	21.79	21.25
		High		21.54	21.53	21.29
	100%	/	22.50	21.16	21.76	21.46
16QAM	1	Low	22.50	21.39	21.90	21.24
		Middle		21.33	21.83	21.65
		High		21.41	21.14	21.39
	50%	Low	21.50	20.58	20.34	20.22
		Middle		20.31	20.56	20.31
		High		20.15	20.14	20.48
	100%	/	21.50	20.33	20.50	19.92
	64QAM	1	Low	21.50	20.49	20.40
Middle			20.67		20.42	20.57
High			20.33		20.36	20.54
50%		Low	20.50	19.20	19.67	19.46
		Middle		19.26	19.33	19.39
		High		19.48	19.07	19.41
100%		/	20.50	19.49	19.67	19.30

LTE B26(Part 22)			Maximum Conducted Power (dBm)			
Modulation	RB	RB Offset	Tune up	1.4MHz		
				Channel/Frequency(MHz)		
				26797/824.7	26915/836.5	27033/848.3
QPSK	1	Low	23.50	22.83	22.78	22.47
		Middle		22.65	22.89	22.57
		High		22.86	22.33	22.72
	50%	Low	23.50	21.82	22.21	21.67
		Middle		22.32	22.55	22.13
		High		22.27	22.02	21.85
	100%	/	22.50	21.58	21.58	21.92
16QAM	1	Low	22.50	21.78	21.42	21.66
		Middle		21.64	21.66	21.34
		High		21.76	21.53	21.85
	50%	Low	22.50	21.23	21.05	20.65
		Middle		21.43	21.59	20.66
		High		21.08	20.88	20.57
	100%	/	21.50	20.85	20.58	20.54
64QAM	1	Low	21.50	20.36	21.01	20.43
		Middle		20.46	20.41	20.67
		High		20.31	20.53	20.77

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	50%	Low	21.50	19.98	19.96	20.43
		Middle		19.95	19.99	20.44
		High		19.96	19.91	20.10
	100%	/	20.50	19.26	19.19	19.43
Modulation	RB	RB Offset	Tune up	3MHz		
				Channel/Frequency(MHz)		
				26805/825.5	26915/836.5	27025/847.5
QPSK	1	Low	23.50	22.76	22.81	22.73
		Middle		22.76	22.93	22.49
		High		22.52	22.80	22.67
	50%	Low	22.50	21.60	21.68	21.47
		Middle		21.77	21.87	21.70
		High		21.41	21.79	21.69
	100%	/	22.50	21.64	21.80	21.71
16QAM	1	Low	22.50	21.79	21.87	21.66
		Middle		21.85	21.75	21.90
		High		21.80	21.64	21.66
	50%	Low	21.50	20.52	20.71	20.72
		Middle		20.65	20.87	20.79
		High		20.81	20.62	20.80
	100%	/	21.50	20.91	20.59	20.48
64QAM	1	Low	21.50	20.55	20.55	20.62
		Middle		20.52	20.32	20.59
		High		20.48	20.59	20.53
	50%	Low	20.50	19.35	19.66	19.26
		Middle		19.47	19.64	19.40
		High		19.58	19.52	19.58
	100%	/	20.50	19.30	19.63	19.41
Modulation	RB	RB Offset	Tune up	5MHz		
				Channel/Frequency(MHz)		
				26815/826.5	26915/836.5	27015/846.5
QPSK	1	Low	23.50	22.73	22.59	22.35
		Middle		22.58	22.79	22.56
		High		22.96	22.49	22.71
	50%	Low	22.50	21.55	21.75	21.52
		Middle		21.87	21.91	21.97
		High		21.80	21.39	21.85
	100%	/	22.50	21.56	21.58	21.91
16QAM	1	Low	22.50	21.74	21.36	21.63
		Middle		21.63	21.67	21.29

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	50%	High		21.74	21.49	21.83
		Low	21.50	20.68	20.54	20.63
		Middle		20.88	21.02	20.63
		High		20.56	20.27	20.52
	100%	/	21.50	20.82	20.56	20.49
64QAM	1	Low	21.50	20.33	20.96	20.41
		Middle		20.45	20.41	20.64
		High		20.28	20.48	20.94
	50%	Low	20.50	19.62	19.46	19.78
		Middle		19.40	19.25	19.78
		High		19.44	19.27	19.48
	100%	/	20.50	19.26	19.88	19.49
Modulation	RB	RB Offset	Tune up	10MHz		
				Channel/Frequency(MHz)		
				26840/829	26915/836.5	26990/844
QPSK	1	Low	23.50	22.81	22.73	22.38
		Middle		22.64	22.89	22.55
		High		22.94	22.46	22.71
	50%	Low	22.50	21.55	21.72	21.51
		Middle		21.76	22.06	22.08
		High		21.79	21.36	21.71
	100%	/	22.50	21.59	21.55	21.89
16QAM	1	Low	22.50	21.72	21.39	21.63
		Middle		21.54	21.65	21.32
		High		21.73	21.49	21.81
	50%	Low	21.50	20.64	20.53	20.63
		Middle		20.88	20.98	20.61
		High		20.55	20.24	20.54
	100%	/	21.50	20.83	20.54	20.49
64QAM	1	Low	21.50	20.30	20.98	20.40
		Middle		20.44	20.40	20.65
		High		20.28	20.49	20.86
	50%	Low	20.50	19.60	19.45	19.80
		Middle		19.41	19.23	19.78
		High		19.44	19.27	19.46
	100%	/	20.50	19.24	19.35	19.48
Modulation	RB	RB Offset	Tune up	15MHz		
				Channel/Frequency(MHz)		
				26865/831.5	26915/836.5	26965/841.5
QPSK	1	Low	23.50	22.58	22.69	22.41

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		Middle		22.71	22.85	22.53
		High		22.47	22.45	22.74
	50%	Low	22.50	21.54	21.67	21.47
		Middle		21.55	22.02	22.05
		High		21.62	21.51	21.78
	100%	/	22.50	22.11	21.50	21.85
16QAM	1	Low	22.50	21.52	21.35	21.58
		Middle		21.42	21.63	21.28
		High		21.76	21.46	21.79
	50%	Low	21.50	20.51	20.49	20.60
		Middle		20.83	21.00	20.58
		High		20.59	20.19	20.50
	100%	/	21.50	20.53	20.50	20.46
64QAM	1	Low	21.50	20.77	20.94	20.35
		Middle		20.61	20.38	20.61
		High		20.13	20.46	20.91
	50%	Low	20.50	19.87	19.41	19.77
		Middle		19.20	19.21	19.75
		High		19.49	19.22	19.42
	100%	/	20.50	19.17	19.56	19.45

LTE B26(Part 90)			Maximum Conducted Power (dBm)			
Modulation	RB	RB Offset	Tune up	1.4MHz		
				Channel/Frequency(MHz)		
				26697/814.7	26740/819	26783/823.3
QPSK	1	Low	23.50	23.11	23.32	23.25
		Middle		23.13	23.34	23.13
		High		23.11	23.14	23.14
	50%	Low	23.50	23.26	23.22	23.28
		Middle		23.22	23.28	23.30
		High		23.18	23.30	23.18
	100%	/	23.50	22.45	22.41	22.34
16QAM	1	Low	23.50	22.30	22.26	22.44
		Middle		22.32	22.36	22.38
		High		22.32	22.49	22.23
	50%	Low	23.50	22.78	22.23	22.28
		Middle		22.39	22.27	22.25
		High		22.67	22.77	22.81
	100%	/	22.50	21.28	21.29	21.22
64QAM	1	Low	22.50	22.03	22.03	22.03
		Middle		22.03	22.13	22.06

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		High		21.98	21.93	22.03
	50%	Low	22.50	22.10	22.10	22.10
		Middle		22.02	22.03	22.02
		High		21.93	22.01	21.94
	100%	/	22.00	20.33	20.37	20.50
Modulation	RB	RB Offset	Tune up	3MHz		
				Channel/Frequency(MHz)		
				26705/815.5	26740/819	26775/822.5
QPSK	1	Low	23.50	23.04	23.19	23.05
		Middle		23.05	23.18	23.13
		High		23.08	23.04	23.08
	50%	Low	22.50	22.17	22.16	22.89
		Middle		21.99	22.25	22.09
		High		22.76	22.78	22.80
	100%	/	22.50	22.23	22.22	22.18
16QAM	1	Low	22.50	22.36	22.41	22.38
		Middle		22.47	22.51	22.48
		High		22.28	22.29	22.27
	50%	Low	22.50	21.18	21.24	21.19
		Middle		21.28	21.19	21.28
		High		21.17	21.16	21.08
	100%	/	22.50	21.33	21.33	21.28
64QAM	1	Low	22.50	21.58	21.62	21.60
		Middle		21.86	21.83	21.82
		High		21.73	21.75	21.72
	50%	Low	22.00	20.89	20.89	20.82
		Middle		20.76	20.73	20.72
		High		20.81	20.83	20.79
	100%	/	22.00	20.75	20.74	20.70
Modulation	RB	RB Offset	Tune up	5MHz		
				Channel/Frequency(MHz)		
				26715/816.5	26740/819	26765/821.5
QPSK	1	Low	23.50	23.01	23.15	23.08
		Middle		23.04	23.14	23.12
		High		23.06	23.03	22.99
	50%	Low	22.50	22.14	22.11	22.10
		Middle		22.06	22.21	22.20
		High		21.94	21.91	21.99
	100%	/	22.50	22.20	22.17	22.16
16QAM	1	Low	22.50	22.34	22.37	22.38
		Middle		22.51	22.49	22.51
		High		22.26	22.26	22.25
	50%	Low	22.50	21.21	21.20	21.19

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		Middle		21.25	21.21	21.26
		High		21.14	21.11	21.10
	100%	/	22.50	21.31	21.29	21.28
64QAM	1	Low	22.50	21.56	21.58	21.59
		Middle		21.82	21.81	21.83
		High		21.71	21.72	21.71
	50%	Low	22.00	20.86	20.85	20.84
		Middle		20.73	20.71	20.72
		High		20.78	20.78	20.77
	100%	/	22.00	20.73	20.70	20.69
Modulation	RB	RB Offset	Tune up	10MHz		
				Channel/Frequency(MHz)		
				/	26740/819	/
QPSK	1	Low	23.50	/	23.11	/
		Middle		/	23.10	/
		High		/	23.02	/
	50%	Low	22.50	/	22.06	/
		Middle		/	22.17	/
		High		/	22.06	/
	100%	/	22.50	/	22.12	/
16QAM	1	Low	22.50	/	22.33	/
		Middle		/	22.47	/
		High		/	22.23	/
	50%	Low	22.50	/	21.16	/
		Middle		/	21.23	/
		High		/	21.06	/
	100%	/	22.50	/	21.25	/
64QAM	1	Low	22.50	/	21.54	/
		Middle		/	21.79	/
		High		/	21.69	/
	50%	Low	22.00	/	20.81	/
		Middle		/	20.69	/
		High		/	20.73	/
	100%	/	22.00	/	20.66	/

LTE B30			Maximum Conducted Power (dBm)			
Modulation	RB	RB Offset	Tune up	5MHz		
				Channel/Frequency(MHz)		
				27685/2307.5	27710/2310	27735/2312.5
QPSK	1	Low	23.50	22.55	22.59	22.78
		Middle		22.68	22.78	22.93
		High		22.36	22.73	22.80

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	50%	Low	22.50	21.54	21.51	21.68
		Middle		21.78	21.77	21.87
		High		21.38	21.35	21.79
	100%	/	22.50	21.72	21.67	21.76
16QAM	1	Low	22.50	21.71	21.74	21.87
		Middle		21.81	21.79	21.75
		High		21.67	21.79	21.64
	50%	Low	22.50	20.59	20.58	20.71
		Middle		20.54	20.50	20.87
		High		20.77	20.67	20.62
	100%	/	22.50	20.43	20.41	20.59
64QAM	1	Low	22.50	21.56	21.58	21.85
		Middle		21.50	21.49	21.62
		High		21.60	21.61	21.39
	50%	Low	21.50	20.61	20.60	20.46
		Middle		20.92	20.87	20.44
		High		20.51	20.51	20.32
	100%	/	21.50	20.71	20.68	20.43
Modulation	RB	RB Offset	Tune up	10MHz		
				Channel/Frequency(MHz)		
				/	27710/2310	/
QPSK	1	Low	23.50	/	22.35	/
		Middle		/	22.74	/
		High		/	22.32	/
	50%	Low	22.50	/	21.46	/
		Middle		/	20.96	/
		High		/	21.50	/
	100%	/	22.50	/	21.77	/
16QAM	1	Low	22.50	/	21.70	/
		Middle		/	21.77	/
		High		/	20.84	/
	50%	Low	22.50	/	20.54	/
		Middle		/	20.52	/
		High		/	20.65	/
	100%	/	22.50	/	20.37	/
64QAM	1	Low	22.50	/	21.54	/
		Middle		/	21.47	/
		High		/	21.58	/
	50%	Low	21.50	/	20.56	/
		Middle		/	20.85	/

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		High		/	20.46	/
	100%	/	21.50	/	20.64	/

LTE B38			Maximum Conducted Power (dBm)			
Modulation	RB	RB Offset	Tune up	5MHz		
				Channel/Frequency(MHz)		
				37775/2572.5	38000/2595	38225/2617.5
QPSK	1	Low	23.50	22.76	22.81	22.73
		Middle		22.76	22.93	22.49
		High		22.52	22.80	22.77
	50%	Low	22.50	21.60	21.68	21.47
		Middle		21.77	21.87	21.70
		High		21.41	21.79	21.69
	100%	/	22.50	21.64	21.80	21.71
16QAM	1	Low	22.50	21.79	21.87	21.66
		Middle		21.85	21.75	21.90
		High		21.80	21.64	21.66
	50%	Low	21.50	20.52	20.71	20.72
		Middle		20.65	20.87	20.79
		High		20.81	20.62	20.80
	100%	/	21.50	20.91	20.59	20.48
64QAM	1	Low	21.50	20.55	20.55	20.62
		Middle		20.52	20.32	20.59
		High		20.48	20.59	20.53
	50%	Low	20.50	19.35	19.66	19.26
		Middle		19.47	19.64	19.40
		High		19.58	19.52	19.58
	100%	/	20.50	19.30	19.63	19.41
Modulation	RB	RB Offset	Tune up	10MHz		
				Channel/Frequency(MHz)		
				37800/2575	38000/2595	38200/2615
QPSK	1	Low	23.50	22.31	22.38	22.30
		Middle		22.89	22.72	22.62
		High		22.51	22.39	22.56
	50%	Low	22.50	21.37	21.62	21.52
		Middle		21.68	21.51	21.48
		High		21.45	21.17	21.34
	100%	/	22.50	21.30	21.70	21.78
16QAM	1	Low	22.50	21.71	21.57	21.43
		Middle		21.39	21.52	21.55

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	50%	High	21.50	21.77	21.44	21.67
		Low		20.07	20.51	20.82
		Middle		20.59	20.42	20.34
		High		20.36	20.66	20.38
	100%	/	21.50	20.56	20.40	20.32
64QAM	1	Low	21.50	20.20	20.82	20.53
		Middle		20.80	20.44	20.56
		High		20.40	20.72	20.58
	50%	Low	20.50	19.76	19.38	19.83
		Middle		19.32	19.36	19.26
		High		19.73	19.31	19.79
	100%	/	20.50	19.31	19.35	19.10
Modulation	RB	RB Offset	Tune up	15MHz		
				Channel/Frequency(MHz)		
				37825/2577.5	38000/2595	38175/2612.5
QPSK	1	Low	23.50	22.39	22.52	22.33
		Middle		22.95	22.82	22.61
		High		22.49	22.36	22.47
	50%	Low	22.50	21.37	21.59	21.51
		Middle		21.57	21.66	21.59
		High		21.44	21.14	21.20
	100%	/	22.50	21.33	21.67	21.76
16QAM	1	Low	22.50	21.69	21.60	21.43
		Middle		21.30	21.50	21.58
		High		21.76	21.44	21.65
	50%	Low	21.50	20.03	20.50	20.82
		Middle		20.59	20.38	20.32
		High		20.35	20.63	20.40
	100%	/	21.50	20.57	20.38	20.32
64QAM	1	Low	21.50	20.17	20.84	20.52
		Middle		20.79	20.43	20.57
		High		20.40	20.73	20.57
	50%	Low	20.50	19.74	19.37	19.85
		Middle		19.33	19.34	19.26
		High		19.73	19.31	19.77
	100%	/	20.50	19.29	19.32	19.09
Modulation	RB	RB Offset	Tune up	20MHz		
				Channel/Frequency(MHz)		
				37850/2580	38000/2595	38150/2610
QPSK	1	Low	23.50	22.36	22.48	22.36

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		Middle		22.94	22.78	22.59
		High		22.47	22.35	22.50
	50%	Low	22.50	21.34	21.54	21.47
		Middle		21.64	21.62	21.56
		High		21.41	21.29	21.27
	100%	/	22.50	21.30	21.62	21.72
16QAM	1	Low	22.50	21.67	21.56	21.38
		Middle		21.34	21.48	21.54
		High		21.74	21.41	21.63
	50%	Low	21.50	20.06	20.46	20.79
		Middle		20.56	20.40	20.29
		High		20.32	20.58	20.36
	100%	/	21.50	20.55	20.34	20.29
64QAM	1	Low	21.50	20.15	20.80	20.47
		Middle		20.75	20.41	20.53
		High		20.38	20.70	20.55
	50%	Low	20.50	19.71	19.33	19.82
		Middle		19.30	19.32	19.23
		High		19.70	19.26	19.73
	100%	/	20.50	19.27	19.28	19.06

LTE B40L			Maximum Conducted Power (dBm)			
Modulation	RB	RB Offset	Tune up	5MHz		
				Channel/Frequency(MHz)		
				38725/2307.5	38750/2310	38775/2312.5
QPSK	1	Low	23.50	22.41	22.55	22.81
		Middle		22.70	22.80	22.93
		High		22.84	22.81	22.80
	50%	Low	22.50	21.36	21.33	21.68
		Middle		21.74	21.89	21.87
		High		21.21	21.18	21.79
	100%	/	22.50	21.75	21.72	21.80
16QAM	1	Low	22.50	21.96	21.99	21.87
		Middle		21.92	21.90	21.75
		High		21.89	21.89	21.64
	50%	Low	22.50	20.73	20.72	20.71
		Middle		20.72	20.68	20.87
		High		20.56	20.53	20.62
	100%	/	22.50	20.72	20.68	20.59
64QAM	1	Low	22.50	21.73	21.75	22.10

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		Middle		21.59	21.58	22.13
		High		21.47	21.48	21.98
		Low		20.62	20.61	20.54
	50%	Middle	21.50	20.71	20.69	20.67
		High		20.81	20.83	20.60
	100%	/	21.50	20.65	20.62	20.62
Modulation	RB	RB Offset	Tune up	10MHz		
				Channel/Frequency(MHz)		
				/	38750/2310	/
QPSK	1	Low	23.50	/	22.51	/
		Middle		/	22.76	/
		High		/	22.80	/
	50%	Low	22.50	/	21.28	/
		Middle		/	21.85	/
		High		/	21.33	/
	100%	/	22.50	/	21.67	/
16QAM	1	Low	22.50	/	21.95	/
		Middle		/	21.88	/
		High		/	21.86	/
	50%	Low	22.50	/	20.68	/
		Middle		/	20.70	/
		High		/	20.48	/
	100%	/	22.50	/	20.64	/
64QAM	1	Low	22.50	/	21.71	/
		Middle		/	21.56	/
		High		/	21.45	/
	50%	Low	21.50	/	20.57	/
		Middle		/	20.67	/
		High		/	20.78	/
	100%	/	21.50	/	20.58	/

LTE B40H			Maximum Conducted Power (dBm)			
Modulation	RB	RB Offset	Tune up	5MHz		
				Channel/Frequency(MHz)		
				39175/2352.5	39200/2355	39225/2357.5
QPSK	1	Low	23.50	22.55	22.69	22.81
		Middle		22.61	22.71	22.93
		High		22.56	22.53	22.80
	50%	Low	22.50	21.63	21.60	21.68
		Middle		21.54	21.69	21.87

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		High		21.40	21.37	21.75
	100%	/	22.50	21.57	21.54	21.80
16QAM	1	Low	22.50	21.55	21.58	21.87
		Middle		21.84	21.82	21.75
		High		21.63	21.63	21.64
	50%	Low	22.50	20.75	20.74	20.71
		Middle		20.54	20.50	20.87
		High		20.66	20.63	20.62
	100%	/	22.50	20.51	20.49	20.59
64QAM	1	Low	22.50	21.60	21.62	21.67
		Middle		21.41	21.40	21.66
		High		21.74	21.75	21.65
	50%	Low	21.50	20.77	20.76	20.78
		Middle		20.60	20.58	20.60
		High		20.67	20.67	20.75
	100%	/	21.50	20.60	20.57	20.66
Modulation	RB	RB Offset	Tune up	10MHz		
				Channel/Frequency(MHz)		
				/	39200/2355	/
QPSK	1	Low	23.50	/	22.65	/
		Middle		/	22.67	/
		High		/	22.52	/
	50%	Low	22.50	/	21.67	/
		Middle		/	21.65	/
		High		/	21.68	/
	100%	/	22.50	/	21.49	/
16QAM	1	Low	22.50	/	21.54	/
		Middle		/	21.8	/
		High		/	21.6	/
	50%	Low	22.50	/	20.7	/
		Middle		/	20.52	/
		High		/	20.68	/
	100%	/	22.50	/	20.45	/
64QAM	1	Low	22.50	/	21.68	/
		Middle		/	21.38	/
		High		/	21.72	/
	50%	Low	21.50	/	20.72	/
		Middle		/	20.56	/
		High		/	20.62	/
	100%	/	21.50	/	20.53	/

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LTE B41			Maximum Conducted Power (dBm)			
Modulation	RB	RB Offset	Tune up	5MHz		
				Channel/Frequency(MHz)		
				39675/2498.5	40620/2593	41565/2687.5
QPSK	1	Low	23.50	21.77	22.27	22.08
		Middle		22.71	22.63	22.62
		High		21.97	22.28	22.08
	50%	Low	22.50	20.98	21.82	21.31
		Middle		21.27	21.57	21.56
		High		21.62	21.16	21.82
	100%	/	22.50	21.42	21.43	21.54
16QAM	1	Low	22.50	21.17	21.09	21.49
		Middle		20.76	20.97	21.43
		High		21.06	21.46	21.08
	50%	Low	21.50	19.81	20.06	20.09
		Middle		20.38	20.45	20.41
		High		20.09	20.14	20.08
	100%	/	21.50	20.04	19.78	20.45
64QAM	1	Low	21.50	20.22	20.65	20.79
		Middle		20.75	20.26	20.25
		High		20.25	20.35	20.10
	50%	Low	20.50	19.12	19.61	19.71
		Middle		19.68	19.31	19.26
		High		19.26	19.31	19.66
	100%	/	20.50	19.50	19.29	19.29
Modulation	RB	RB Offset	Tune up	10MHz		
				Channel/Frequency(MHz)		
				39700/2501	40620/2593	41540/2685
QPSK	1	Low	23.50	22.56	22.53	22.49
		Middle		22.56	22.46	22.52
		High		22.32	22.60	22.56
	50%	Low	22.50	21.40	21.21	21.17
		Middle		21.57	21.47	21.40
		High		21.21	21.46	21.42
	100%	/	22.50	21.44	21.51	21.44
16QAM	1	Low	22.50	21.59	21.42	21.44
		Middle		21.65	21.66	21.68
		High		21.60	21.39	21.44
	50%	Low	21.50	20.32	20.49	20.50

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		Middle		20.45	20.53	20.57
		High		20.61	20.57	20.53
	100%	/	21.50	20.71	20.30	20.21
64QAM	1	Low	21.50	20.55	20.64	20.58
		Middle		20.52	20.60	20.52
		High		20.48	20.54	20.46
	50%	Low	20.50	19.35	19.27	19.16
		Middle		19.47	19.41	19.35
		High		19.58	19.63	19.56
	100%	/	20.50	19.30	19.46	19.39
Modulation	RB	RB Offset	Tune up	15MHz		
				Channel/Frequency(MHz)		
				39725/2503.5	40620/2593	41515/2682.5
QPSK	1	Low	23.50	21.85	22.30	22.11
		Middle		22.67	22.62	22.61
		High		21.95	22.19	21.99
	50%	Low	22.50	20.98	21.81	21.30
		Middle		21.16	21.68	21.67
		High		21.61	21.02	21.68
	100%	/	22.50	21.45	21.41	21.52
16QAM	1	Low	22.50	21.15	21.09	21.49
		Middle		20.67	21.00	21.46
		High		21.05	21.44	21.06
	50%	Low	21.50	19.77	20.06	20.09
		Middle		20.38	20.43	20.39
		High		20.08	20.16	20.10
	100%	/	21.50	20.05	19.78	20.45
64QAM	1	Low	21.50	20.19	20.64	20.78
		Middle		20.74	20.27	20.26
		High		20.25	20.34	20.09
	50%	Low	20.50	19.10	19.63	19.73
		Middle		19.69	19.31	19.26
		High		19.26	19.29	19.64
	100%	/	20.50	19.48	19.28	19.28
Modulation	RB	RB Offset	Tune up	20MHz		
				Channel/Frequency(MHz)		
				39750/2506	40620/2593	41490/2680
QPSK	1	Low	23.50	21.82	22.33	22.14
		Middle		22.79	22.80	22.59
		High		21.93	22.22	22.02

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	50%	Low	22.50	20.95	21.77	21.26
		Middle		21.23	21.65	21.64
		High		21.58	21.09	21.75
	100%	/	22.50	21.42	21.37	21.48
16QAM	1	Low	22.50	21.13	21.04	21.44
		Middle		20.71	20.96	21.42
		High		21.03	21.42	21.04
	50%	Low	21.50	19.80	20.03	20.06
		Middle		20.35	20.40	20.36
		High		20.05	20.12	20.06
	100%	/	21.50	20.03	19.75	20.42
64QAM	1	Low	21.50	20.17	20.59	20.73
		Middle		20.70	20.23	20.22
		High		20.23	20.32	20.07
	50%	Low	20.50	19.07	19.60	19.70
		Middle		19.66	19.28	19.23
		High		19.23	19.25	19.60
	100%	/	20.50	19.46	19.25	19.25

LTE B41(Note 1)			Maximum Conducted Power (dBm)			
Modulation	RB	RB Offset	Tune up	5MHz		
				Channel/Frequency(MHz)		
				39715/2502.5	40620/2593	41565/2687.5
QPSK	1	Low	23.50	22.51	22.27	22.08
		Middle		22.51	22.63	22.62
		High		22.27	22.28	22.08
	50%	Low	22.50	21.35	21.82	21.31
		Middle		21.52	21.57	21.56
		High		21.16	21.16	21.82
	100%	/	22.50	21.39	21.43	21.54
16QAM	1	Low	22.50	21.54	21.09	21.49
		Middle		21.60	20.97	21.43
		High		21.55	21.46	21.08
	50%	Low	21.50	20.27	20.06	20.09
		Middle		20.40	20.45	20.41
		High		20.56	20.14	20.08
	100%	/	21.50	20.66	19.78	20.45
64QAM	1	Low	21.50	20.30	20.65	20.79
		Middle		20.52	20.26	20.25
		High		20.48	20.35	20.10

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	50%	Low	20.50	19.35	19.61	19.71
		Middle		19.47	19.31	19.26
		High		19.58	19.31	19.66
	100%	/	20.50	19.30	19.29	19.29
Modulation	RB	RB Offset	Tune up	10MHz		
				Channel/Frequency(MHz)		
				39740/2505	40620/2593	41540/2685
QPSK	1	Low	23.50	22.45	22.53	22.49
		Middle		22.28	22.46	22.52
		High		22.58	22.60	22.56
	50%	Low	22.50	21.75	21.21	21.17
		Middle		21.95	21.47	21.40
		High		21.47	21.46	21.42
	100%	/	22.50	21.07	21.51	21.44
16QAM	1	Low	22.50	21.55	21.42	21.44
		Middle		21.37	21.66	21.68
		High		21.66	21.39	21.44
	50%	Low	21.50	20.67	20.49	20.50
		Middle		20.83	20.53	20.57
		High		20.60	20.57	20.53
	100%	/	21.50	20.45	20.30	20.21
64QAM	1	Low	21.50	20.70	20.64	20.58
		Middle		20.58	20.60	20.52
		High		20.36	20.54	20.46
	50%	Low	20.50	20.00	19.27	19.16
		Middle		19.00	19.41	19.35
		High		19.20	19.63	19.56
	100%	/	20.50	19.01	19.46	19.39
Modulation	RB	RB Offset	Tune up	15MHz		
				Channel/Frequency(MHz)		
				39765/2507.5	40620/2593	41515/2682.5
QPSK	1	Low	23.50	22.35	22.30	22.11
		Middle		22.21	22.62	22.61
		High		22.68	22.19	21.99
	50%	Low	22.50	21.64	21.81	21.30
		Middle		21.95	21.68	21.67
		High		21.45	21.02	21.68
	100%	/	22.50	21.05	21.41	21.52
16QAM	1	Low	22.50	21.51	21.09	21.49
		Middle		21.36	21.00	21.46

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		High		21.64	21.44	21.06
	50%	Low	21.50	20.38	20.06	20.09
		Middle		20.54	20.43	20.39
		High		20.34	20.16	20.10
	100%	/	21.50	20.42	19.78	20.45
64QAM	1	Low	21.50	20.67	20.64	20.78
		Middle		20.57	20.27	20.26
		High		20.33	20.34	20.09
	50%	Low	20.50	20.00	19.63	19.73
		Middle		18.95	19.31	19.26
		High		19.18	19.29	19.64
	100%	/	20.50	19.01	19.28	19.28
Modulation	RB	RB Offset	Tune up	20MHz		
				Channel/Frequency(MHz)		
				39790/2510	40620/2593	41490/2680
QPSK	1	Low	23.50	22.12	22.33	22.14
		Middle		22.46	22.80	22.59
		High		22.44	22.22	22.02
	50%	Low	22.50	21.50	21.77	21.26
		Middle		21.61	21.65	21.64
		High		21.41	21.09	21.75
	100%	/	22.50	21.05	21.37	21.48
16QAM	1	Low	22.50	21.87	21.04	21.44
		Middle		21.31	20.96	21.42
		High		21.61	21.42	21.04
	50%	Low	21.50	20.37	20.03	20.06
		Middle		20.51	20.40	20.36
		High		20.30	20.12	20.06
	100%	/	21.50	20.16	19.75	20.42
64QAM	1	Low	21.50	20.62	20.59	20.73
		Middle		20.52	20.23	20.22
		High		20.31	20.32	20.07
	50%	Low	20.50	19.95	19.60	19.70
		Middle		18.93	19.28	19.23
		High		19.15	19.25	19.60
	100%	/	20.50	18.97	19.25	19.25

Note 1: This frequency range(2500-2690MHz) is only applicable for IC certification.

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LTE B66			Maximum Conducted Power (dBm)			
Modulation	RB	RB Offset	Tune up	1.4MHz		
				Channel/Frequency(MHz)		
				131979/1710.7	132322/1745	132665/1779.3
QPSK	1	Low	23.50	22.33	22.11	21.99
		Middle		22.18	22.41	22.36
		High		21.51	21.76	21.67
	50%	Low	23.50	22.20	22.13	22.16
		Middle		22.17	21.58	22.23
		High		22.11	22.18	22.21
	100%	/	22.50	21.14	21.20	21.40
16QAM	1	Low	22.50	21.40	21.37	21.11
		Middle		21.51	21.16	21.27
		High		21.31	21.26	21.41
	50%	Low	22.50	21.15	21.11	21.23
		Middle		21.14	21.17	21.12
		High		21.20	21.26	21.28
	100%	/	21.50	19.95	20.04	20.26
64QAM	1	Low	21.50	20.15	20.20	19.82
		Middle		20.09	19.85	20.12
		High		20.05	20.26	20.19
	50%	Low	21.50	19.91	20.05	19.92
		Middle		19.87	20.02	20.06
		High		19.91	20.11	20.01
	100%	/	20.50	19.02	19.02	19.09
Modulation	RB	RB Offset	Tune up	3MHz		
				Channel/Frequency(MHz)		
				131987/1711.5	132322/1745	132657/1778.5
QPSK	1	Low	23.50	22.25	22.23	22.11
		Middle		22.40	22.41	22.34
		High		21.67	21.70	21.87
	50%	Low	22.50	21.60	21.68	21.47
		Middle		21.77	21.87	21.70
		High		21.41	21.79	21.69
	100%	/	22.50	21.64	21.80	21.71
16QAM	1	Low	22.50	21.79	21.87	21.66
		Middle		21.85	21.75	21.90
		High		21.80	21.64	21.66
	50%	Low	21.50	20.52	20.71	20.72
		Middle		20.65	20.87	20.79

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		High		20.81	20.62	20.80
	100%	/	21.50	20.91	20.59	20.48
64QAM	1	Low	21.50	20.55	20.55	20.62
		Middle		20.52	20.32	20.59
		High		20.48	20.59	20.53
	50%	Low	20.50	19.35	19.66	19.26
		Middle		19.47	19.64	19.40
		High		19.58	19.52	19.58
	100%	/	20.50	19.30	19.63	19.41
Modulation	RB	RB Offset	Tune up	5MHz		
				Channel/Frequency(MHz)		
				131997/1712.5	132322/1745	132647/1777.5
QPSK	1	Low	23.50	22.25	21.96	21.90
		Middle		22.11	22.37	22.39
		High		21.52	21.78	21.69
	50%	Low	22.50	21.20	21.20	21.20
		Middle		21.31	21.47	21.39
		High		21.31	21.01	21.13
	100%	/	22.50	21.14	21.24	21.40
16QAM	1	Low	22.50	21.39	21.33	21.11
		Middle		21.53	21.19	21.26
		High		21.34	21.26	21.42
	50%	Low	21.50	20.06	20.28	20.35
		Middle		20.22	20.12	20.15
		High		20.20	20.44	20.35
	100%	/	21.50	19.95	20.06	20.24
64QAM	1	Low	21.50	20.15	20.17	19.90
		Middle		20.11	19.87	20.13
		High		20.04	20.25	20.19
	50%	Low	20.50	18.87	18.87	19.00
		Middle		19.00	19.05	19.05
		High		18.78	19.14	18.93
	100%	/	20.50	19.22	19.03	18.91
Modulation	RB	RB Offset	Tune up	10MHz		
				Channel/Frequency(MHz)		
				132022/1715	132322/1745	132622/1775
QPSK	1	Low	23.50	22.33	22.10	21.93
		Middle		22.17	22.43	22.38
		High		21.50	21.75	21.60
	50%	Low	22.50	21.20	21.17	21.19

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		Middle		21.20	21.62	21.50
		High		21.34	20.98	20.99
	100%	/	22.50	21.17	21.21	21.38
16QAM	1	Low	22.50	21.37	21.36	21.11
		Middle		21.44	21.17	21.29
		High		21.30	21.26	21.40
	50%	Low	21.50	20.02	20.27	20.35
		Middle		20.22	20.08	20.13
		High		20.19	20.41	20.37
	100%	/	21.50	19.96	20.04	20.24
64QAM	1	Low	21.50	20.12	20.19	19.89
		Middle		20.10	19.86	20.14
		High		20.04	20.26	20.18
	50%	Low	20.50	18.85	18.86	19.02
		Middle		19.01	19.03	19.05
		High		18.78	19.14	18.91
	100%	/	20.50	19.20	19.00	18.90
Modulation	RB	RB Offset	Tune up	15MHz		
				Channel/Frequency(MHz)		
				132047/1717.5	132322/1745	132597/1772.5
QPSK	1	Low	23.50	22.35	22.15	22.02
		Middle		22.18	22.40	22.40
		High		21.42	21.62	21.71
	50%	Low	22.50	21.02	21.21	21.08
		Middle		21.31	21.66	21.55
		High		21.37	21.19	21.13
	100%	/	22.50	21.16	21.24	21.41
16QAM	1	Low	22.50	21.43	21.39	21.14
		Middle		21.54	21.18	21.31
		High		21.33	21.30	21.44
	50%	Low	21.50	20.10	20.28	20.37
		Middle		20.26	20.18	20.18
		High		20.21	20.45	20.40
	100%	/	21.50	19.98	20.08	20.29
64QAM	1	Low	21.50	20.18	20.22	19.92
		Middle		20.12	19.87	20.16
		High		20.07	20.30	20.22
	50%	Low	20.50	18.87	18.87	19.04
		Middle		19.05	19.09	19.10
		High		18.80	19.18	18.94

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	100%	/	20.50	19.22	19.04	18.95
Modulation	RB	RB Offset	Tune up	20MHz		
				Channel/Frequency(MHz)		
				132072/1720	132322/1745	132572/1770
QPSK	1	Low	23.50	22.30	22.06	21.96
		Middle		22.16	22.43	22.36
		High		21.48	21.74	21.63
	50%	Low	22.50	21.17	21.12	21.15
		Middle		21.27	21.58	21.47
		High		21.31	21.13	21.06
	100%	/	22.50	21.14	21.16	21.21
16QAM	1	Low	22.50	21.35	21.32	21.06
		Middle		21.48	21.15	21.25
		High		21.28	21.23	21.32
	50%	Low	21.50	20.05	20.23	20.32
		Middle		20.19	20.10	20.10
		High		20.16	20.36	20.33
	100%	/	21.50	19.94	20.00	20.21
64QAM	1	Low	21.50	20.10	20.15	19.84
		Middle		20.06	19.84	20.10
		High		20.02	20.23	20.16
	50%	Low	20.50	18.82	18.82	18.99
		Middle		18.98	19.01	19.02
		High		18.75	19.09	18.87
	100%	/	20.50	19.18	18.96	18.87

LTE B71			Maximum Conducted Power (dBm)			
Modulation	RB	RB Offset	Tune up	5MHz		
				Channel/Frequency(MHz)		
				133147/665.5	133297/680.5	133447/695.5
QPSK	1	Low	23.50	22.42	21.94	22.62
		Middle		22.30	22.78	22.07
		High		22.35	22.76	22.57
	50%	Low	22.50	21.51	21.69	21.56
		Middle		21.32	21.31	20.58
		High		21.67	21.97	21.63
	100%	/	22.50	22.00	21.68	21.49
16QAM	1	Low	22.50	21.00	21.42	21.69
		Middle		22.00	21.75	21.29
		High		21.97	22.03	22.25

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	50%	Low	21.50	20.92	20.98	20.25
		Middle		20.75	20.66	20.63
		High		20.67	20.41	20.53
	100%	/	21.50	20.70	20.67	20.80
64QAM	1	Low	21.50	20.84	20.65	20.79
		Middle		20.89	20.92	21.13
		High		20.64	20.97	20.32
	50%	Low	20.50	19.59	19.67	19.88
		Middle		19.95	19.16	19.32
		High		19.56	19.37	19.52
	100%	/	20.50	20.02	19.35	19.79
Modulation	RB	RB Offset	Tune up	10MHz		
				Channel/Frequency(MHz)		
				133172/668	133297/680.5	133422/693
QPSK	1	Low	23.50	22.52	22.13	22.74
		Middle		22.37	22.45	22.08
		High		22.25	22.74	22.59
	50%	Low	22.50	21.33	21.70	21.44
		Middle		21.32	21.50	20.74
		High		21.44	21.40	21.63
	100%	/	22.50	22.02	21.32	21.50
16QAM	1	Low	22.50	21.04	21.48	21.23
		Middle		22.01	21.74	21.34
		High		21.78	21.67	21.11
	50%	Low	21.50	20.96	20.98	20.27
		Middle		21.12	20.33	21.08
		High		21.14	20.42	20.58
	100%	/	21.50	20.18	21.02	20.12
64QAM	1	Low	21.50	20.87	20.70	20.81
		Middle		20.90	20.92	21.16
		High		20.67	21.02	20.35
	50%	Low	20.50	19.59	19.67	19.92
		Middle		19.45	19.20	19.36
		High		19.58	20.38	19.53
	100%	/	20.50	20.02	19.36	19.83
Modulation	RB	RB Offset	Tune up	15MHz		
				Channel/Frequency(MHz)		
				133197/670.5	133297/680.5	133397/690.5
QPSK	1	Low	23.50	22.56	22.66	22.61
		Middle		22.76	22.82	22.49

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	50%	High	22.50	22.52	22.80	22.67
		Low		21.60	21.68	21.47
		Middle		21.77	21.87	21.70
		High		21.41	21.79	21.69
	100%	/	22.50	21.64	21.80	21.71
16QAM	1	Low	22.50	21.79	21.87	21.66
		Middle		21.85	21.75	21.90
		High		21.80	21.64	21.66
	50%	Low	21.50	20.52	20.71	20.72
		Middle		20.65	20.87	20.79
		High		20.81	20.62	20.80
	100%	/	21.50	20.91	20.59	20.48
64QAM	1	Low	21.50	20.55	20.55	20.62
		Middle		20.52	20.32	20.59
		High		20.48	20.59	20.53
	50%	Low	20.50	19.35	19.66	19.26
		Middle		19.47	19.64	19.43
		High		19.58	19.52	19.58
	100%	/	20.50	19.30	19.63	19.41
Modulation	RB	RB Offset	Tune up	20MHz		
				Channel/Frequency(MHz)		
				133222/673	133322/683	133372/688
QPSK	1	Low	23.50	22.47	22.04	22.55
		Middle		22.35	22.87	22.54
		High		22.31	22.86	22.51
	50%	Low	22.50	21.48	21.61	21.51
		Middle		21.28	21.42	21.14
		High		21.78	21.90	21.56
	100%	/	22.50	21.67	21.76	21.43
16QAM	1	Low	22.50	20.96	21.41	21.78
		Middle		21.95	21.71	21.28
		High		21.94	22.00	21.98
	50%	Low	21.50	20.91	20.93	20.22
		Middle		21.05	20.25	21.00
		High		21.09	20.33	20.51
	100%	/	21.50	20.14	20.94	21.12
64QAM	1	Low	21.50	20.79	20.63	20.73
		Middle		20.84	20.89	21.10
		High		20.62	20.95	20.29
	50%	Low	20.50	19.54	19.62	19.87

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		Middle		19.78	19.12	19.45
		High		19.53	19.67	19.46
	100%	/	20.50	19.98	19.28	19.54

6.2.7. EIRP/ERP result

Band	BW	Modulation	Channel	Conducted (dBm)	Gain (dBi)	EIRP (dBm)	ERP (dBm)
2	1.4	QPSK	Low	22.09	2.19	24.28	22.13
2	1.4	QPSK	Mid	22.35	2.19	24.54	22.39
2	1.4	QPSK	High	22.16	2.19	24.35	22.20
2	1.4	16QAM	Low	21.34	2.19	23.53	21.38
2	1.4	16QAM	Mid	21.46	2.19	23.65	21.50
2	1.4	16QAM	High	21.12	2.19	23.31	21.16
2	1.4	64QAM	Low	20.04	2.19	22.23	20.08
2	1.4	64QAM	Mid	20.15	2.19	22.34	20.19
2	1.4	64QAM	High	20.20	2.19	22.39	20.24
2	3	QPSK	Low	22.07	2.19	24.26	22.11
2	3	QPSK	Mid	22.20	2.19	24.39	22.24
2	3	QPSK	High	22.07	2.19	24.26	22.11
2	3	16QAM	Low	21.34	2.19	23.53	21.38
2	3	16QAM	Mid	21.28	2.19	23.47	21.32
2	3	16QAM	High	21.08	2.19	23.27	21.12
2	3	64QAM	Low	20.05	2.19	22.24	20.09
2	3	64QAM	Mid	20.13	2.19	22.32	20.17
2	3	64QAM	High	20.26	2.19	22.45	20.30
2	5	QPSK	Low	22.11	2.19	24.30	22.15
2	5	QPSK	Mid	22.28	2.19	24.47	22.32
2	5	QPSK	High	22.12	2.19	24.31	22.16
2	5	16QAM	Low	21.39	2.19	23.58	21.43
2	5	16QAM	Mid	21.43	2.19	23.62	21.47
2	5	16QAM	High	21.14	2.19	23.33	21.18
2	5	64QAM	Low	19.99	2.19	22.18	20.03
2	5	64QAM	Mid	20.07	2.19	22.26	20.11
2	5	64QAM	High	20.20	2.19	22.39	20.24
2	10	QPSK	Low	22.01	2.19	24.20	22.05
2	10	QPSK	Mid	22.30	2.19	24.49	22.34
2	10	QPSK	High	22.20	2.19	24.39	22.24
2	10	16QAM	Low	21.32	2.19	23.51	21.36
2	10	16QAM	Mid	21.39	2.19	23.58	21.43
2	10	16QAM	High	21.17	2.19	23.36	21.21
2	10	64QAM	Low	19.96	2.19	22.15	20.00
2	10	64QAM	Mid	20.07	2.19	22.26	20.11

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2	10	64QAM	High	20.20	2.19	22.39	20.24
2	15	QPSK	Low	22.12	2.19	24.31	22.16
2	15	QPSK	Mid	22.31	2.19	24.50	22.35
2	15	QPSK	High	22.13	2.19	24.32	22.17
2	15	16QAM	Low	21.29	2.19	23.48	21.33
2	15	16QAM	Mid	21.25	2.19	23.44	21.29
2	15	16QAM	High	21.14	2.19	23.33	21.18
2	15	64QAM	Low	19.99	2.19	22.18	20.03
2	15	64QAM	Mid	20.06	2.19	22.25	20.10
2	15	64QAM	High	20.20	2.19	22.39	20.24
2	20	QPSK	Low	22.16	2.19	24.35	22.20
2	20	QPSK	Mid	22.37	2.19	24.56	22.41
2	20	QPSK	High	22.18	2.19	24.37	22.22
2	20	16QAM	Low	21.36	2.19	23.55	21.40
2	20	16QAM	Mid	21.40	2.19	23.59	21.44
2	20	16QAM	High	21.20	2.19	23.39	21.24
2	20	64QAM	Low	19.93	2.19	22.12	19.97
2	20	64QAM	Mid	20.00	2.19	22.19	20.04
2	20	64QAM	High	20.14	2.19	22.33	20.18
4	1.4	QPSK	Low	22.34	1.85	24.19	22.04
4	1.4	QPSK	Mid	22.38	1.85	24.23	22.08
4	1.4	QPSK	High	22.30	1.85	24.15	22.00
4	1.4	16QAM	Low	21.31	1.85	23.16	21.01
4	1.4	16QAM	Mid	21.40	1.85	23.25	21.10
4	1.4	16QAM	High	21.24	1.85	23.09	20.94
4	1.4	64QAM	Low	20.22	1.85	22.07	19.92
4	1.4	64QAM	Mid	20.16	1.85	22.01	19.86
4	1.4	64QAM	High	20.15	1.85	22.00	19.85
4	3	QPSK	Low	22.17	1.85	24.02	21.87
4	3	QPSK	Mid	22.34	1.85	24.19	22.04
4	3	QPSK	High	22.27	1.85	24.12	21.97
4	3	16QAM	Low	21.21	1.85	23.06	20.91
4	3	16QAM	Mid	21.39	1.85	23.24	21.09
4	3	16QAM	High	21.30	1.85	23.15	21.00
4	3	64QAM	Low	20.19	1.85	22.04	19.89
4	3	64QAM	Mid	20.16	1.85	22.01	19.86
4	3	64QAM	High	20.19	1.85	22.04	19.89
4	5	QPSK	Low	22.26	1.85	24.11	21.96
4	5	QPSK	Mid	22.38	1.85	24.23	22.08
4	5	QPSK	High	22.29	1.85	24.14	21.99
4	5	16QAM	Low	21.19	1.85	23.04	20.89
4	5	16QAM	Mid	21.35	1.85	23.20	21.05
4	5	16QAM	High	21.26	1.85	23.11	20.96

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4	5	64QAM	Low	20.17	1.85	22.02	19.87
4	5	64QAM	Mid	20.09	1.85	21.94	19.79
4	5	64QAM	High	20.13	1.85	21.98	19.83
4	10	QPSK	Low	22.21	1.85	24.06	21.91
4	10	QPSK	Mid	22.33	1.85	24.18	22.03
4	10	QPSK	High	22.30	1.85	24.15	22.00
4	10	16QAM	Low	21.26	1.85	23.11	20.96
4	10	16QAM	Mid	21.45	1.85	23.30	21.15
4	10	16QAM	High	21.23	1.85	23.08	20.93
4	10	64QAM	Low	20.20	1.85	22.05	19.90
4	10	64QAM	Mid	20.09	1.85	21.94	19.79
4	10	64QAM	High	20.13	1.85	21.98	19.83
4	15	QPSK	Low	22.30	1.85	24.15	22.00
4	15	QPSK	Mid	22.39	1.85	24.24	22.09
4	15	QPSK	High	22.29	1.85	24.14	21.99
4	15	16QAM	Low	21.16	1.85	23.01	20.86
4	15	16QAM	Mid	21.32	1.85	23.17	21.02
4	15	16QAM	High	21.23	1.85	23.08	20.93
4	15	64QAM	Low	20.19	1.85	22.04	19.89
4	15	64QAM	Mid	20.09	1.85	21.94	19.79
4	15	64QAM	High	20.16	1.85	22.01	19.86
4	20	QPSK	Low	22.31	1.85	24.16	22.01
4	20	QPSK	Mid	22.40	1.85	24.25	22.10
4	20	QPSK	High	22.39	1.85	24.24	22.09
4	20	16QAM	Low	21.27	1.85	23.12	20.97
4	20	16QAM	Mid	21.38	1.85	23.23	21.08
4	20	16QAM	High	21.30	1.85	23.15	21.00
4	20	64QAM	Low	20.18	1.85	22.03	19.88
4	20	64QAM	Mid	20.05	1.85	21.90	19.75
4	20	64QAM	High	20.19	1.85	22.04	19.89
5	1.4	QPSK	Low	22.65	-0.37	22.28	20.13
5	1.4	QPSK	Mid	22.72	-0.37	22.35	20.20
5	1.4	QPSK	High	22.48	-0.37	22.11	19.96
5	1.4	16QAM	Low	21.62	-0.37	21.25	19.10
5	1.4	16QAM	Mid	21.48	-0.37	21.11	18.96
5	1.4	16QAM	High	21.64	-0.37	21.27	19.12
5	1.4	64QAM	Low	20.39	-0.37	20.02	17.87
5	1.4	64QAM	Mid	20.56	-0.37	20.19	18.04
5	1.4	64QAM	High	20.75	-0.37	20.38	18.23
5	3	QPSK	Low	22.67	-0.37	22.30	20.15
5	3	QPSK	Mid	22.70	-0.37	22.33	20.18
5	3	QPSK	High	22.39	-0.37	22.02	19.87
5	3	16QAM	Low	21.67	-0.37	21.30	19.15

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5	3	16QAM	Mid	21.45	-0.37	21.08	18.93
5	3	16QAM	High	21.61	-0.37	21.24	19.09
5	3	64QAM	Low	20.41	-0.37	20.04	17.89
5	3	64QAM	Mid	20.55	-0.37	20.18	18.03
5	3	64QAM	High	20.78	-0.37	20.41	18.26
5	5	QPSK	Low	22.60	-0.37	22.23	20.08
5	5	QPSK	Mid	22.75	-0.37	22.38	20.23
5	5	QPSK	High	22.38	-0.37	22.01	19.86
5	5	16QAM	Low	21.57	-0.37	21.20	19.05
5	5	16QAM	Mid	21.37	-0.37	21.00	18.85
5	5	16QAM	High	21.65	-0.37	21.28	19.13
5	5	64QAM	Low	20.38	-0.37	20.01	17.86
5	5	64QAM	Mid	20.54	-0.37	20.17	18.02
5	5	64QAM	High	20.74	-0.37	20.37	18.22
5	10	QPSK	Low	22.72	-0.37	22.35	20.20
5	10	QPSK	Mid	22.77	-0.37	22.40	20.25
5	10	QPSK	High	22.62	-0.37	22.25	20.10
5	10	16QAM	Low	21.60	-0.37	21.23	19.08
5	10	16QAM	Mid	21.49	-0.37	21.12	18.97
5	10	16QAM	High	21.67	-0.37	21.30	19.15
5	10	64QAM	Low	20.38	-0.37	20.01	17.86
5	10	64QAM	Mid	20.54	-0.37	20.17	18.02
5	10	64QAM	High	20.74	-0.37	20.37	18.22
7	5	QPSK	Low	22.25	0.46	22.71	20.56
7	5	QPSK	Mid	22.48	0.46	22.94	20.79
7	5	QPSK	High	22.42	0.46	22.88	20.73
7	5	16QAM	Low	21.62	0.46	22.08	19.93
7	5	16QAM	Mid	21.57	0.46	22.03	19.88
7	5	16QAM	High	21.58	0.46	22.04	19.89
7	5	64QAM	Low	20.52	0.46	20.98	18.83
7	5	64QAM	Mid	20.55	0.46	21.01	18.86
7	5	64QAM	High	20.39	0.46	20.85	18.70
7	10	QPSK	Low	22.26	0.46	22.72	20.57
7	10	QPSK	Mid	22.48	0.46	22.94	20.79
7	10	QPSK	High	22.42	0.46	22.88	20.73
7	10	16QAM	Low	21.63	0.46	22.09	19.94
7	10	16QAM	Mid	21.61	0.46	22.07	19.92
7	10	16QAM	High	21.60	0.46	22.06	19.91
7	10	64QAM	Low	20.52	0.46	20.98	18.83
7	10	64QAM	Mid	20.57	0.46	21.03	18.88
7	10	64QAM	High	20.40	0.46	20.86	18.71
7	15	QPSK	Low	22.32	0.46	22.78	20.63
7	15	QPSK	Mid	22.58	0.46	23.04	20.89

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7	15	QPSK	High	22.41	0.46	22.87	20.72
7	15	16QAM	Low	21.62	0.46	22.08	19.93
7	15	16QAM	Mid	21.64	0.46	22.10	19.95
7	15	16QAM	High	21.58	0.46	22.04	19.89
7	15	64QAM	Low	20.49	0.46	20.95	18.80
7	15	64QAM	Mid	20.53	0.46	20.99	18.84
7	15	64QAM	High	20.39	0.46	20.85	18.70
7	20	QPSK	Low	22.31	0.46	22.77	20.62
7	20	QPSK	Mid	22.54	0.46	23.00	20.85
7	20	QPSK	High	22.39	0.46	22.85	20.70
7	20	16QAM	Low	21.60	0.46	22.06	19.91
7	20	16QAM	Mid	21.60	0.46	22.06	19.91
7	20	16QAM	High	21.56	0.46	22.02	19.87
7	20	64QAM	Low	20.47	0.46	20.93	18.78
7	20	64QAM	Mid	20.50	0.46	20.96	18.81
7	20	64QAM	High	20.37	0.46	20.83	18.68
12	1.4	QPSK	Low	22.76	-3.46	19.30	17.15
12	1.4	QPSK	Mid	22.93	-3.46	19.47	17.32
12	1.4	QPSK	High	22.83	-3.46	19.37	17.22
12	1.4	16QAM	Low	21.85	-3.46	18.39	16.24
12	1.4	16QAM	Mid	21.87	-3.46	18.41	16.26
12	1.4	16QAM	High	21.90	-3.46	18.44	16.29
12	1.4	64QAM	Low	20.55	-3.46	17.09	14.94
12	1.4	64QAM	Mid	20.59	-3.46	17.13	14.98
12	1.4	64QAM	High	20.62	-3.46	17.16	15.01
12	3	QPSK	Low	22.26	-3.46	18.80	16.65
12	3	QPSK	Mid	22.48	-3.46	19.02	16.87
12	3	QPSK	High	22.42	-3.46	18.96	16.81
12	3	16QAM	Low	21.63	-3.46	18.17	16.02
12	3	16QAM	Mid	21.61	-3.46	18.15	16.00
12	3	16QAM	High	21.60	-3.46	18.14	15.99
12	3	64QAM	Low	20.52	-3.46	17.06	14.91
12	3	64QAM	Mid	20.52	-3.46	17.06	14.91
12	3	64QAM	High	20.40	-3.46	16.94	14.79
12	5	QPSK	Low	22.32	-3.46	18.86	16.71
12	5	QPSK	Mid	22.58	-3.46	19.12	16.97
12	5	QPSK	High	22.41	-3.46	18.95	16.80
12	5	16QAM	Low	21.62	-3.46	18.16	16.01
12	5	16QAM	Mid	21.64	-3.46	18.18	16.03
12	5	16QAM	High	21.58	-3.46	18.12	15.97
12	5	64QAM	Low	20.49	-3.46	17.03	14.88
12	5	64QAM	Mid	20.53	-3.46	17.07	14.92
12	5	64QAM	High	20.39	-3.46	16.93	14.78

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12	10	QPSK	Low	22.76	-3.46	19.30	17.15
12	10	QPSK	Mid	22.93	-3.46	19.47	17.32
12	10	QPSK	High	22.83	-3.46	19.37	17.22
12	10	16QAM	Low	21.85	-3.46	18.39	16.24
12	10	16QAM	Mid	21.87	-3.46	18.41	16.26
12	10	16QAM	High	21.90	-3.46	18.44	16.29
12	10	64QAM	Low	20.55	-3.46	17.09	14.94
12	10	64QAM	Mid	20.59	-3.46	17.13	14.98
12	10	64QAM	High	20.62	-3.46	17.16	15.01
13	5	QPSK	Low	23.06	-3.46	19.60	17.45
13	5	QPSK	Mid	23.16	-3.46	19.70	17.55
13	5	QPSK	High	22.93	-3.46	19.47	17.32
13	5	16QAM	Low	21.98	-3.46	18.52	16.37
13	5	16QAM	Mid	22.01	-3.46	18.55	16.40
13	5	16QAM	High	21.87	-3.46	18.41	16.26
13	5	64QAM	Low	21.07	-3.46	17.61	15.46
13	5	64QAM	Mid	21.09	-3.46	17.63	15.48
13	5	64QAM	High	20.59	-3.46	17.13	14.98
13	10	QPSK	Mid	23.12	-3.46	19.66	17.51
13	10	16QAM	Mid	21.97	-3.46	18.51	16.36
13	10	64QAM	Mid	21.05	-3.46	17.59	15.44
14	5	QPSK	Low	23.25	-3.62	19.63	17.48
14	5	QPSK	Mid	23.24	-3.62	19.62	17.47
14	5	QPSK	High	23.17	-3.62	19.55	17.40
14	5	16QAM	Low	22.23	-3.62	18.61	16.46
14	5	16QAM	Mid	22.22	-3.62	18.60	16.45
14	5	16QAM	High	22.38	-3.62	18.76	16.61
14	5	64QAM	Low	21.48	-3.62	17.86	15.71
14	5	64QAM	Mid	21.84	-3.62	18.22	16.07
14	5	64QAM	High	22.10	-3.62	18.48	16.33
14	10	QPSK	Mid	23.17	-3.62	19.55	17.40
14	10	16QAM	Mid	22.32	-3.62	18.70	16.55
14	10	64QAM	Mid	21.48	-3.62	17.86	15.71
17	5	QPSK	Low	22.91	-3.46	19.45	17.30
17	5	QPSK	Mid	22.90	-3.46	19.44	17.29
17	5	QPSK	High	22.80	-3.46	19.34	17.19
17	5	16QAM	Low	21.82	-3.46	18.36	16.21
17	5	16QAM	Mid	21.81	-3.46	18.35	16.20
17	5	16QAM	High	21.98	-3.46	18.52	16.37
17	5	64QAM	Low	20.77	-3.46	17.31	15.16
17	5	64QAM	Mid	20.68	-3.46	17.22	15.07
17	5	64QAM	High	20.78	-3.46	17.32	15.17
17	10	QPSK	Low	22.88	-3.46	19.42	17.27

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17	10	QPSK	Mid	22.89	-3.46	19.43	17.28
17	10	QPSK	High	22.75	-3.46	19.29	17.14
17	10	16QAM	Low	21.83	-3.46	18.37	16.22
17	10	16QAM	Mid	21.79	-3.46	18.33	16.18
17	10	16QAM	High	21.93	-3.46	18.47	16.32
17	10	64QAM	Low	20.73	-3.46	17.27	15.12
17	10	64QAM	Mid	20.64	-3.46	17.18	15.03
17	10	64QAM	High	20.74	-3.46	17.28	15.13
25	1.4	QPSK	Low	22.52	2.19	24.71	22.56
25	1.4	QPSK	Mid	22.25	2.19	24.44	22.29
25	1.4	QPSK	High	22.24	2.19	24.43	22.28
25	1.4	16QAM	Low	21.30	2.19	23.49	21.34
25	1.4	16QAM	Mid	21.85	2.19	24.04	21.89
25	1.4	16QAM	High	21.51	2.19	23.70	21.55
25	1.4	64QAM	Low	20.61	2.19	22.80	20.65
25	1.4	64QAM	Mid	20.29	2.19	22.48	20.33
25	1.4	64QAM	High	20.43	2.19	22.62	20.47
25	3	QPSK	Low	22.43	2.19	24.62	22.47
25	3	QPSK	Mid	22.27	2.19	24.46	22.31
25	3	QPSK	High	22.28	2.19	24.47	22.32
25	3	16QAM	Low	21.45	2.19	23.64	21.49
25	3	16QAM	Mid	21.99	2.19	24.18	22.03
25	3	16QAM	High	21.67	2.19	23.86	21.71
25	3	64QAM	Low	20.69	2.19	22.88	20.73
25	3	64QAM	Mid	20.43	2.19	22.62	20.47
25	3	64QAM	High	20.59	2.19	22.78	20.63
25	5	QPSK	Low	22.66	2.19	24.85	22.70
25	5	QPSK	Mid	22.83	2.19	25.02	22.87
25	5	QPSK	High	22.39	2.19	24.58	22.43
25	5	16QAM	Low	21.66	2.19	23.85	21.70
25	5	16QAM	Mid	21.77	2.19	23.96	21.81
25	5	16QAM	High	21.66	2.19	23.85	21.70
25	5	64QAM	Low	20.55	2.19	22.74	20.59
25	5	64QAM	Mid	20.59	2.19	22.78	20.63
25	5	64QAM	High	20.62	2.19	22.81	20.66
25	10	QPSK	Low	22.52	2.19	24.71	22.56
25	10	QPSK	Mid	22.23	2.19	24.42	22.27
25	10	QPSK	High	22.26	2.19	24.45	22.30
25	10	16QAM	Low	21.42	2.19	23.61	21.46
25	10	16QAM	Mid	21.62	2.19	23.81	21.66
25	10	16QAM	High	21.62	2.19	23.81	21.66
25	10	64QAM	Low	20.57	2.19	22.76	20.61
25	10	64QAM	Mid	20.35	2.19	22.54	20.39

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25	10	64QAM	High	20.55	2.19	22.74	20.59
25	15	QPSK	Low	22.61	2.19	24.80	22.65
25	15	QPSK	Mid	22.37	2.19	24.56	22.41
25	15	QPSK	High	22.36	2.19	24.55	22.40
25	15	16QAM	Low	21.41	2.19	23.60	21.45
25	15	16QAM	Mid	21.76	2.19	23.95	21.80
25	15	16QAM	High	21.65	2.19	23.84	21.69
25	15	64QAM	Low	20.67	2.19	22.86	20.71
25	15	64QAM	Mid	20.42	2.19	22.61	20.46
25	15	64QAM	High	20.57	2.19	22.76	20.61
25	20	QPSK	Low	22.61	2.19	24.80	22.65
25	20	QPSK	Mid	22.37	2.19	24.56	22.41
25	20	QPSK	High	22.36	2.19	24.55	22.40
25	20	16QAM	Low	21.41	2.19	23.60	21.45
25	20	16QAM	Mid	21.90	2.19	24.09	21.94
25	20	16QAM	High	21.65	2.19	23.84	21.69
25	20	64QAM	Low	20.67	2.19	22.86	20.71
25	20	64QAM	Mid	20.42	2.19	22.61	20.46
25	20	64QAM	High	20.57	2.19	22.76	20.61
26(Part 22)	1.4	QPSK	Low	22.86	-0.37	22.49	20.34
26(Part 22)	1.4	QPSK	Mid	22.89	-0.37	22.52	20.37
26(Part 22)	1.4	QPSK	High	22.72	-0.37	22.35	20.20
26(Part 22)	1.4	16QAM	Low	21.78	-0.37	21.41	19.26
26(Part 22)	1.4	16QAM	Mid	21.66	-0.37	21.29	19.14
26(Part 22)	1.4	16QAM	High	21.85	-0.37	21.48	19.33
26(Part 22)	1.4	64QAM	Low	20.46	-0.37	20.09	17.94
26(Part 22)	1.4	64QAM	Mid	21.01	-0.37	20.64	18.49
26(Part 22)	1.4	64QAM	High	20.77	-0.37	20.40	18.25
26(Part 22)	3	QPSK	Low	22.76	-0.37	22.39	20.24
26(Part 22)	3	QPSK	Mid	22.93	-0.37	22.56	20.41
26(Part 22)	3	QPSK	High	22.73	-0.37	22.36	20.21
26(Part 22)	3	16QAM	Low	21.85	-0.37	21.48	19.33
26(Part 22)	3	16QAM	Mid	21.87	-0.37	21.50	19.35
26(Part 22)	3	16QAM	High	21.90	-0.37	21.53	19.38
26(Part 22)	3	64QAM	Low	20.55	-0.37	20.18	18.03
26(Part 22)	3	64QAM	Mid	20.59	-0.37	20.22	18.07
26(Part 22)	3	64QAM	High	20.62	-0.37	20.25	18.10
26(Part 22)	5	QPSK	Low	22.96	-0.37	22.59	20.44
26(Part 22)	5	QPSK	Mid	22.79	-0.37	22.42	20.27
26(Part 22)	5	QPSK	High	22.71	-0.37	22.34	20.19
26(Part 22)	5	16QAM	Low	21.74	-0.37	21.37	19.22
26(Part 22)	5	16QAM	Mid	21.67	-0.37	21.30	19.15
26(Part 22)	5	16QAM	High	21.83	-0.37	21.46	19.31

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26(Part 22)	5	64QAM	Low	20.45	-0.37	20.08	17.93
26(Part 22)	5	64QAM	Mid	20.96	-0.37	20.59	18.44
26(Part 22)	5	64QAM	High	20.94	-0.37	20.57	18.42
26(Part 22)	10	QPSK	Low	22.94	-0.37	22.57	20.42
26(Part 22)	10	QPSK	Mid	22.89	-0.37	22.52	20.37
26(Part 22)	10	QPSK	High	22.71	-0.37	22.34	20.19
26(Part 22)	10	16QAM	Low	21.73	-0.37	21.36	19.21
26(Part 22)	10	16QAM	Mid	21.65	-0.37	21.28	19.13
26(Part 22)	10	16QAM	High	21.81	-0.37	21.44	19.29
26(Part 22)	10	64QAM	Low	20.44	-0.37	20.07	17.92
26(Part 22)	10	64QAM	Mid	20.98	-0.37	20.61	18.46
26(Part 22)	10	64QAM	High	20.86	-0.37	20.49	18.34
26(Part 22)	15	QPSK	Low	22.71	-0.37	22.34	20.19
26(Part 22)	15	QPSK	Mid	22.85	-0.37	22.48	20.33
26(Part 22)	15	QPSK	High	22.74	-0.37	22.37	20.22
26(Part 22)	15	16QAM	Low	21.76	-0.37	21.39	19.24
26(Part 22)	15	16QAM	Mid	21.63	-0.37	21.26	19.11
26(Part 22)	15	16QAM	High	21.79	-0.37	21.42	19.27
26(Part 22)	15	64QAM	Low	20.77	-0.37	20.40	18.25
26(Part 22)	15	64QAM	Mid	20.94	-0.37	20.57	18.42
26(Part 22)	15	64QAM	High	20.91	-0.37	20.54	18.39
26(Part 90)	1.4	QPSK	Low	23.26	-0.37	22.89	20.74
26(Part 90)	1.4	QPSK	Mid	23.34	-0.37	22.97	20.82
26(Part 90)	1.4	QPSK	High	23.30	-0.37	22.93	20.78
26(Part 90)	1.4	16QAM	Low	22.78	-0.37	22.41	20.26
26(Part 90)	1.4	16QAM	Mid	22.77	-0.37	22.40	20.25
26(Part 90)	1.4	16QAM	High	22.81	-0.37	22.44	20.29
26(Part 90)	1.4	64QAM	Low	22.10	-0.37	21.73	19.58
26(Part 90)	1.4	64QAM	Mid	22.13	-0.37	21.76	19.61
26(Part 90)	1.4	64QAM	High	22.10	-0.37	21.73	19.58
26(Part 90)	3	QPSK	Low	23.08	-0.37	22.71	20.56
26(Part 90)	3	QPSK	Mid	23.19	-0.37	22.82	20.67
26(Part 90)	3	QPSK	High	23.13	-0.37	22.76	20.61
26(Part 90)	3	16QAM	Low	22.47	-0.37	22.10	19.95
26(Part 90)	3	16QAM	Mid	22.51	-0.37	22.14	19.99
26(Part 90)	3	16QAM	High	22.48	-0.37	22.11	19.96
26(Part 90)	3	64QAM	Low	21.86	-0.37	21.49	19.34
26(Part 90)	3	64QAM	Mid	21.83	-0.37	21.46	19.31
26(Part 90)	3	64QAM	High	21.82	-0.37	21.45	19.30
26(Part 90)	5	QPSK	Low	23.06	-0.37	22.69	20.54
26(Part 90)	5	QPSK	Mid	23.15	-0.37	22.78	20.63
26(Part 90)	5	QPSK	High	23.12	-0.37	22.75	20.60
26(Part 90)	5	16QAM	Low	22.51	-0.37	22.14	19.99

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26(Part 90)	5	16QAM	Mid	22.49	-0.37	22.12	19.97
26(Part 90)	5	16QAM	High	22.51	-0.37	22.14	19.99
26(Part 90)	5	64QAM	Low	21.82	-0.37	21.45	19.30
26(Part 90)	5	64QAM	Mid	21.81	-0.37	21.44	19.29
26(Part 90)	5	64QAM	High	21.83	-0.37	21.46	19.31
26(Part 90)	10	QPSK	Mid	23.11	-0.37	22.74	20.59
26(Part 90)	10	16QAM	Mid	22.47	-0.37	22.10	19.95
26(Part 90)	10	64QAM	Mid	21.79	-0.37	21.42	19.27
30	5	QPSK	Low	22.68	-0.88	21.80	19.65
30	5	QPSK	Mid	22.78	-0.88	21.90	19.75
30	5	QPSK	High	22.93	-0.88	22.05	19.90
30	5	16QAM	Low	21.81	-0.88	20.93	18.78
30	5	16QAM	Mid	21.79	-0.88	20.91	18.76
30	5	16QAM	High	21.87	-0.88	20.99	18.84
30	5	64QAM	Low	21.60	-0.88	20.72	18.57
30	5	64QAM	Mid	21.61	-0.88	20.73	18.58
30	5	64QAM	High	21.85	-0.88	20.97	18.82
30	10	QPSK	Mid	22.74	-0.88	21.86	19.71
30	10	16QAM	Mid	21.77	-0.88	20.89	18.74
30	10	64QAM	Mid	21.58	-0.88	20.70	18.55
38	5	QPSK	Low	22.76	0.5	23.26	21.11
38	5	QPSK	Mid	22.93	0.5	23.43	21.28
38	5	QPSK	High	22.77	0.5	23.27	21.12
38	5	16QAM	Low	21.85	0.5	22.35	20.20
38	5	16QAM	Mid	21.87	0.5	22.37	20.22
38	5	16QAM	High	21.90	0.5	22.40	20.25
38	5	64QAM	Low	20.55	0.5	21.05	18.90
38	5	64QAM	Mid	20.59	0.5	21.09	18.94
38	5	64QAM	High	20.62	0.5	21.12	18.97
38	10	QPSK	Low	22.89	0.5	23.39	21.24
38	10	QPSK	Mid	22.72	0.5	23.22	21.07
38	10	QPSK	High	22.62	0.5	23.12	20.97
38	10	16QAM	Low	21.77	0.5	22.27	20.12
38	10	16QAM	Mid	21.57	0.5	22.07	19.92
38	10	16QAM	High	21.67	0.5	22.17	20.02
38	10	64QAM	Low	20.80	0.5	21.30	19.15
38	10	64QAM	Mid	20.82	0.5	21.32	19.17
38	10	64QAM	High	20.58	0.5	21.08	18.93
38	15	QPSK	Low	22.95	0.5	23.45	21.30
38	15	QPSK	Mid	22.82	0.5	23.32	21.17
38	15	QPSK	High	22.61	0.5	23.11	20.96
38	15	16QAM	Low	21.76	0.5	22.26	20.11
38	15	16QAM	Mid	21.60	0.5	22.10	19.95

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38	15	16QAM	High	21.65	0.5	22.15	20.00
38	15	64QAM	Low	20.79	0.5	21.29	19.14
38	15	64QAM	Mid	20.84	0.5	21.34	19.19
38	15	64QAM	High	20.57	0.5	21.07	18.92
38	20	QPSK	Low	22.94	0.5	23.44	21.29
38	20	QPSK	Mid	22.78	0.5	23.28	21.13
38	20	QPSK	High	22.59	0.5	23.09	20.94
38	20	16QAM	Low	21.74	0.5	22.24	20.09
38	20	16QAM	Mid	21.56	0.5	22.06	19.91
38	20	16QAM	High	21.63	0.5	22.13	19.98
38	20	64QAM	Low	20.75	0.5	21.25	19.10
38	20	64QAM	Mid	20.80	0.5	21.30	19.15
38	20	64QAM	High	20.55	0.5	21.05	18.90
40L	5	QPSK	Low	22.84	-0.72	22.12	19.97
40L	5	QPSK	Mid	22.81	-0.72	22.09	19.94
40L	5	QPSK	High	22.93	-0.72	22.21	20.06
40L	5	16QAM	Low	21.96	-0.72	21.24	19.09
40L	5	16QAM	Mid	21.99	-0.72	21.27	19.12
40L	5	16QAM	High	21.87	-0.72	21.15	19.00
40L	5	64QAM	Low	21.73	-0.72	21.01	18.86
40L	5	64QAM	Mid	21.75	-0.72	21.03	18.88
40L	5	64QAM	High	22.13	-0.72	21.41	19.26
40L	10	QPSK	Mid	22.80	-0.72	22.08	19.93
40L	10	16QAM	Mid	21.95	-0.72	21.23	19.08
40L	10	64QAM	Mid	21.71	-0.72	20.99	18.84
40H	5	QPSK	Low	22.61	-0.72	21.89	19.74
40H	5	QPSK	Mid	22.71	-0.72	21.99	19.84
40H	5	QPSK	High	22.93	-0.72	22.21	20.06
40H	5	16QAM	Low	21.84	-0.72	21.12	18.97
40H	5	16QAM	Mid	21.82	-0.72	21.10	18.95
40H	5	16QAM	High	21.87	-0.72	21.15	19.00
40H	5	64QAM	Low	21.74	-0.72	21.02	18.87
40H	5	64QAM	Mid	21.75	-0.72	21.03	18.88
40H	5	64QAM	High	21.67	-0.72	20.95	18.80
40H	10	QPSK	Mid	22.67	-0.72	21.95	19.80
40H	10	16QAM	Mid	21.80	-0.72	21.08	18.93
40H	10	64QAM	Mid	21.72	-0.72	21.00	18.85
41	5	QPSK	Low	22.71	0.57	23.28	21.13
41	5	QPSK	Mid	22.63	0.57	23.20	21.05
41	5	QPSK	High	22.62	0.57	23.19	21.04
41	5	16QAM	Low	21.17	0.57	21.74	19.59
41	5	16QAM	Mid	21.46	0.57	22.03	19.88
41	5	16QAM	High	21.49	0.57	22.06	19.91

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41	5	64QAM	Low	20.75	0.57	21.32	19.17
41	5	64QAM	Mid	20.65	0.57	21.22	19.07
41	5	64QAM	High	20.79	0.57	21.36	19.21
41	10	QPSK	Low	22.56	0.57	23.13	20.98
41	10	QPSK	Mid	22.60	0.57	23.17	21.02
41	10	QPSK	High	22.56	0.57	23.13	20.98
41	10	16QAM	Low	21.65	0.57	22.22	20.07
41	10	16QAM	Mid	21.66	0.57	22.23	20.08
41	10	16QAM	High	21.68	0.57	22.25	20.10
41	10	64QAM	Low	20.55	0.57	21.12	18.97
41	10	64QAM	Mid	20.64	0.57	21.21	19.06
41	10	64QAM	High	20.58	0.57	21.15	19.00
41	15	QPSK	Low	22.67	0.57	23.24	21.09
41	15	QPSK	Mid	22.62	0.57	23.19	21.04
41	15	QPSK	High	22.61	0.57	23.18	21.03
41	15	16QAM	Low	21.15	0.57	21.72	19.57
41	15	16QAM	Mid	21.44	0.57	22.01	19.86
41	15	16QAM	High	21.49	0.57	22.06	19.91
41	15	64QAM	Low	20.74	0.57	21.31	19.16
41	15	64QAM	Mid	20.64	0.57	21.21	19.06
41	15	64QAM	High	20.78	0.57	21.35	19.20
41	20	QPSK	Low	22.79	0.57	23.36	21.21
41	20	QPSK	Mid	22.80	0.57	23.37	21.22
41	20	QPSK	High	22.59	0.57	23.16	21.01
41	20	16QAM	Low	21.13	0.57	21.70	19.55
41	20	16QAM	Mid	21.42	0.57	21.99	19.84
41	20	16QAM	High	21.44	0.57	22.01	19.86
41	20	64QAM	Low	20.70	0.57	21.27	19.12
41	20	64QAM	Mid	20.59	0.57	21.16	19.01
41	20	64QAM	High	20.73	0.57	21.30	19.15
41(Note 1)	5	QPSK	Low	22.51	0.57	23.08	20.93
41(Note 1)	5	QPSK	Mid	22.63	0.57	23.20	21.05
41(Note 1)	5	QPSK	High	22.62	0.57	23.19	21.04
41(Note 1)	5	16QAM	Low	21.60	0.57	22.17	20.02
41(Note 1)	5	16QAM	Mid	21.46	0.57	22.03	19.88
41(Note 1)	5	16QAM	High	21.49	0.57	22.06	19.91
41(Note 1)	5	64QAM	Low	20.52	0.57	21.09	18.94
41(Note 1)	5	64QAM	Mid	20.65	0.57	21.22	19.07
41(Note 1)	5	64QAM	High	20.79	0.57	21.36	19.21
41(Note 1)	10	QPSK	Low	22.58	0.57	23.15	21.00
41(Note 1)	10	QPSK	Mid	22.60	0.57	23.17	21.02
41(Note 1)	10	QPSK	High	22.56	0.57	23.13	20.98
41(Note 1)	10	16QAM	Low	21.66	0.57	22.23	20.08

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41(Note 1)	10	16QAM	Mid	21.66	0.57	22.23	20.08
41(Note 1)	10	16QAM	High	21.68	0.57	22.25	20.10
41(Note 1)	10	64QAM	Low	20.70	0.57	21.27	19.12
41(Note 1)	10	64QAM	Mid	20.64	0.57	21.21	19.06
41(Note 1)	10	64QAM	High	20.58	0.57	21.15	19.00
41(Note 1)	15	QPSK	Low	22.68	0.57	23.25	21.10
41(Note 1)	15	QPSK	Mid	22.62	0.57	23.19	21.04
41(Note 1)	15	QPSK	High	22.61	0.57	23.18	21.03
41(Note 1)	15	16QAM	Low	21.64	0.57	22.21	20.06
41(Note 1)	15	16QAM	Mid	21.44	0.57	22.01	19.86
41(Note 1)	15	16QAM	High	21.49	0.57	22.06	19.91
41(Note 1)	15	64QAM	Low	20.67	0.57	21.24	19.09
41(Note 1)	15	64QAM	Mid	20.64	0.57	21.21	19.06
41(Note 1)	15	64QAM	High	20.78	0.57	21.35	19.20
41(Note 1)	20	QPSK	Low	22.46	0.57	23.03	20.88
41(Note 1)	20	QPSK	Mid	22.80	0.57	23.37	21.22
41(Note 1)	20	QPSK	High	22.59	0.57	23.16	21.01
41(Note 1)	20	16QAM	Low	21.87	0.57	22.44	20.29
41(Note 1)	20	16QAM	Mid	21.42	0.57	21.99	19.84
41(Note 1)	20	16QAM	High	21.44	0.57	22.01	19.86
41(Note 1)	20	64QAM	Low	20.62	0.57	21.19	19.04
41(Note 1)	20	64QAM	Mid	20.59	0.57	21.16	19.01
41(Note 1)	20	64QAM	High	20.73	0.57	21.30	19.15
66	1.4	QPSK	Low	22.33	1.89	24.22	22.07
66	1.4	QPSK	Mid	22.41	1.89	24.30	22.15
66	1.4	QPSK	High	22.36	1.89	24.25	22.10
66	1.4	16QAM	Low	21.51	1.89	23.40	21.25
66	1.4	16QAM	Mid	21.37	1.89	23.26	21.11
66	1.4	16QAM	High	21.41	1.89	23.30	21.15
66	1.4	64QAM	Low	20.15	1.89	22.04	19.89
66	1.4	64QAM	Mid	20.26	1.89	22.15	20.00
66	1.4	64QAM	High	20.19	1.89	22.08	19.93
66	3	QPSK	Low	22.40	1.89	24.29	22.14
66	3	QPSK	Mid	22.41	1.89	24.30	22.15
66	3	QPSK	High	22.34	1.89	24.23	22.08
66	3	16QAM	Low	21.85	1.89	23.74	21.59
66	3	16QAM	Mid	21.87	1.89	23.76	21.61
66	3	16QAM	High	21.90	1.89	23.79	21.64
66	3	64QAM	Low	20.55	1.89	22.44	20.29
66	3	64QAM	Mid	20.59	1.89	22.48	20.33
66	3	64QAM	High	20.62	1.89	22.51	20.36
66	5	QPSK	Low	22.25	1.89	24.14	21.99
66	5	QPSK	Mid	22.37	1.89	24.26	22.11

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66	5	QPSK	High	22.39	1.89	24.28	22.13
66	5	16QAM	Low	21.53	1.89	23.42	21.27
66	5	16QAM	Mid	21.33	1.89	23.22	21.07
66	5	16QAM	High	21.42	1.89	23.31	21.16
66	5	64QAM	Low	20.15	1.89	22.04	19.89
66	5	64QAM	Mid	20.25	1.89	22.14	19.99
66	5	64QAM	High	20.19	1.89	22.08	19.93
66	10	QPSK	Low	22.33	1.89	24.22	22.07
66	10	QPSK	Mid	22.43	1.89	24.32	22.17
66	10	QPSK	High	22.38	1.89	24.27	22.12
66	10	16QAM	Low	21.44	1.89	23.33	21.18
66	10	16QAM	Mid	21.36	1.89	23.25	21.10
66	10	16QAM	High	21.40	1.89	23.29	21.14
66	10	64QAM	Low	20.12	1.89	22.01	19.86
66	10	64QAM	Mid	20.26	1.89	22.15	20.00
66	10	64QAM	High	20.18	1.89	22.07	19.92
66	15	QPSK	Low	22.35	1.89	24.24	22.09
66	15	QPSK	Mid	22.40	1.89	24.29	22.14
66	15	QPSK	High	22.40	1.89	24.29	22.14
66	15	16QAM	Low	21.54	1.89	23.43	21.28
66	15	16QAM	Mid	21.39	1.89	23.28	21.13
66	15	16QAM	High	21.44	1.89	23.33	21.18
66	15	64QAM	Low	20.18	1.89	22.07	19.92
66	15	64QAM	Mid	20.30	1.89	22.19	20.04
66	15	64QAM	High	20.22	1.89	22.11	19.96
66	20	QPSK	Low	22.30	1.89	24.19	22.04
66	20	QPSK	Mid	22.43	1.89	24.32	22.17
66	20	QPSK	High	22.36	1.89	24.25	22.10
66	20	16QAM	Low	21.48	1.89	23.37	21.22
66	20	16QAM	Mid	21.32	1.89	23.21	21.06
66	20	16QAM	High	21.32	1.89	23.21	21.06
66	20	64QAM	Low	20.10	1.89	21.99	19.84
66	20	64QAM	Mid	20.23	1.89	22.12	19.97
66	20	64QAM	High	20.16	1.89	22.05	19.90
71	5	QPSK	Low	22.42	-4.4	18.02	15.87
71	5	QPSK	Mid	22.78	-4.4	18.38	16.23
71	5	QPSK	High	22.62	-4.4	18.22	16.07
71	5	16QAM	Low	22.00	-4.4	17.60	15.45
71	5	16QAM	Mid	22.03	-4.4	17.63	15.48
71	5	16QAM	High	22.25	-4.4	17.85	15.70
71	5	64QAM	Low	20.89	-4.4	16.49	14.34
71	5	64QAM	Mid	20.97	-4.4	16.57	14.42
71	5	64QAM	High	21.13	-4.4	16.73	14.58

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71	10	QPSK	Low	22.52	-4.4	18.12	15.97
71	10	QPSK	Mid	22.74	-4.4	18.34	16.19
71	10	QPSK	High	22.74	-4.4	18.34	16.19
71	10	16QAM	Low	22.01	-4.4	17.61	15.46
71	10	16QAM	Mid	21.74	-4.4	17.34	15.19
71	10	16QAM	High	21.34	-4.4	16.94	14.79
71	10	64QAM	Low	20.90	-4.4	16.50	14.35
71	10	64QAM	Mid	21.02	-4.4	16.62	14.47
71	10	64QAM	High	21.16	-4.4	16.76	14.61
71	15	QPSK	Low	22.76	-4.4	18.36	16.21
71	15	QPSK	Mid	22.82	-4.4	18.42	16.27
71	15	QPSK	High	22.67	-4.4	18.27	16.12
71	15	16QAM	Low	21.85	-4.4	17.45	15.30
71	15	16QAM	Mid	21.87	-4.4	17.47	15.32
71	15	16QAM	High	21.90	-4.4	17.50	15.35
71	15	64QAM	Low	20.55	-4.4	16.15	14.00
71	15	64QAM	Mid	20.59	-4.4	16.19	14.04
71	15	64QAM	High	20.62	-4.4	16.22	14.07
71	20	QPSK	Low	22.47	-4.4	18.07	15.92
71	20	QPSK	Mid	22.87	-4.4	18.47	16.32
71	20	QPSK	High	22.55	-4.4	18.15	16.00
71	20	16QAM	Low	21.95	-4.4	17.55	15.40
71	20	16QAM	Mid	22.00	-4.4	17.60	15.45
71	20	16QAM	High	21.98	-4.4	17.58	15.43
71	20	64QAM	Low	20.84	-4.4	16.44	14.29
71	20	64QAM	Mid	20.95	-4.4	16.55	14.40
71	20	64QAM	High	21.10	-4.4	16.70	14.55

Note 1: This frequency range(2500-2690MHz) is only applicable for IC certification.

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6.3. EMISSION LIMIT

Specifications:	FCC Part 22.917(a)/24.238(a)/27.53(a)/27.53(c)(2)/ 27.53(f)/27.53(g)/27.53(m)/27.53(h)/ 90.691/90.543(e)/90.543(f) RSS 130 4.7,RSS-132 5.5/RSS-133 5.6, RSS-139 5.6,RSS 140 4.4,RSS-195 5.6, RSS-199 5.6
DUT Serial Number:	862072070057688;862072070057696
Test conditions:	Ambient Temperature:15°C-35°C Relative Humidity:30%RH-60%RH Air pressure: 86kPa-106kPa
Test Results:	Pass

6.3.1. Measurement Limit

FCC §22.917(a) Out of band emissions. 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.

FCC §24.238(a) Out of band emissions. 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.

FCC§27.53(a) For operations in the 2305-2320 MHz band and the 2345-2360 MHz band, the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power P (with averaging performed only during periods of transmission) within the licensed band(s) of operation, in watts, by the following amounts:

For mobile and portable stations operating in the 2305-2315 MHz and 2350-2360 MHz bands:

(i) By a factor of not less than: $43 + 10 \log(P)$ dB on all frequencies between 2305 and 2320 MHz and on all frequencies between 2345 and 2360 MHz that are outside the licensed band(s) of operation, not less than $55 + 10 \log(P)$ dB on all frequencies between 2320 and 2324 MHz and on all frequencies between 2341 and 2345 MHz, not less than $61 + 10 \log(P)$ dB on all frequencies between 2324 and 2328 MHz and on all frequencies between 2337 and 2341 MHz, and not less than $67 + 10 \log(P)$ dB on all frequencies between 2328 and 2337 MHz;

(ii) By a factor of not less than $43 + 10 \log(P)$ dB on all frequencies between 2300 and 2305 MHz, $55 + 10 \log(P)$ dB on all frequencies between 2296 and 2300 MHz, $61 + 10 \log(P)$ dB on all frequencies between 2292 and 2296 MHz, $67 + 10 \log(P)$ dB on all frequencies between 2288 and 2292 MHz, and $70 + 10 \log(P)$ dB below 2288 MHz;

(iii) By a factor of not less than $43 + 10 \log(P)$ dB on all frequencies between 2360 and 2365 MHz, and not less than $70 + 10 \log(P)$ dB above 2365 MHz.

FCC§90.691 Emission mask requirements for EA-based systems.

(a) Out-of-band emission requirement shall apply only to the “outer” channels included in an EA license and to spectrum adjacent to interior channels used by incumbent licensees. The emission limits are as

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follows:

(1) For any frequency removed from the EA licensee's frequency block by up to and including 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least $116 \log_{10}(f/6.1)$ decibels or $50 + 10 \log_{10}(P)$ decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 12.5 kHz.

(2) For any frequency removed from the EA licensee's frequency block greater than 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log_{10}(P)$ decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 37.5 kHz.

FCC §27.53(c)

For operations in the 746-758 MHz band and the 776-788 MHz band, the power of any emission outside the 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, in accordance with the following:

(1) On any frequency outside the 746-758 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;

(2) 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;

(3) On all frequencies between 763-775 MHz and 793-805 MHz, by a factor not less than $76 + 10 \log (P)$ dB in a 6.25 kHz band segment, for base and fixed stations;

(4) On all frequencies between 763-775 MHz and 793-805 MHz, by a factor not less than $65 + 10 \log (P)$ dB in a 6.25 kHz band segment, for mobile and portable stations;

(5) Compliance with the provisions of paragraphs (c)(1) and (c)(2) of this section is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kHz or greater. However, in the 100 kHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of at least 30 kHz may be employed;

(6) Compliance with the provisions of paragraphs (c)(3) and (c)(4) of this section is based on the use of measurement instrumentation such that the reading taken with any resolution bandwidth setting should be adjusted to indicate spectral energy in a 6.25 kHz segment.

FCC §27.53(f) For operations in the 746-758 MHz, 775-788 MHz, and 805-806 MHz bands, emissions 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 the purpose of equipment authorization, a transmitter shall be tested with an antenna that is representative of the type that will be used with the equipment in normal operation.

FCC §27.53(m)(4)

For mobile digital stations, the attenuation factor shall be not less than $40 + 10 \log (P)$ dB on all frequencies between the channel edge and 5 megahertz from the channel edge, $43 + 10 \log (P)$ dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and $55 + 10 \log (P)$ dB on all frequencies

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more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less than $43 + 10 \log (P)$ dB on all frequencies between 2490.5 MHz and 2496 MHz and $55 + 10 \log (P)$ dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees.

FCC §27.53(h):

AWS emission limits —

(1) General protection levels. Except as otherwise specified below, for operations in the 1695–1710 MHz, 1710–1755 MHz, 1755–1780 MHz, 1915–1920 MHz, 1995–2000 MHz, 2000–2020 MHz, 2110–2155 MHz, 2155–2180 MHz, and 2180–2200 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 $43 + 10 \log_{10}(P)$ dB.

(2) Additional protection levels. Notwithstanding the foregoing paragraph (h)(1) of this section:

(i) Operations in the 2180–2200 MHz band are subject to the out-of-band emission requirements set forth in § 27.1134 for the protection of federal government operations operating in the 2200–2290 MHz band.

(ii) For operations in the 2000–2020 MHz band, the power of any emissions below 2000 MHz shall be attenuated below the transmitter power (P) in watts by at least $70 + 10 \log_{10}(P)$ dB.

(iii) For operations in the 1915–1920 MHz band, the power of any emission between 1930–1995 MHz shall be attenuated below the transmitter power (P) in watts by at least $70 + 10 \log_{10}(P)$ dB.

(iv) For operations in the 1995–2000 MHz band, the power of any emission between 2005–2020 MHz shall be attenuated below the transmitter power (P) in watts by at least $70 + 10 \log_{10}(P)$ dB.

FCC §27.50(c)(10) 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.

FCC §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. Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kilohertz or greater. However, in the 100 kilohertz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed.

FCC §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) within the licensed band(s) of operation, measured in watts, in accordance with the following:

(1) On all frequencies between 769-775 MHz and 799-805 MHz, by a factor not less than $76 + 10 \log (P)$ dB in a 6.25 kHz band segment, for base and fixed stations.

(2) On all frequencies between 769-775 MHz and 799-805 MHz, by a factor not less than $65 + 10 \log (P)$ dB in a 6.25 kHz band segment, for mobile and portable stations.

(3) On any frequency between 775-788 MHz, above 805 MHz, and below 758 MHz, by at least $43 + 10 \log$

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(P) dB.

(4) Compliance with the provisions of paragraphs (e)(1) and (2) of this section is based on the use of measurement instrumentation such that the reading taken with any resolution bandwidth setting should be adjusted to indicate spectral energy in a 6.25 kHz segment.

(5) Compliance with the provisions of paragraph (e)(3) of this section is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kHz or greater. However, in the 100 kHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of 30 kHz may be employed.

FCC§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 the purpose of equipment authorization, a transmitter shall be tested with an antenna that is representative of the type that will be used with the equipment in normal operation.

RSS-133 5.6, RSS-199 5.6:

Unwanted emissions shall be measured in terms of average values while the transmitter is operating at the manufacturer's rated power and modulated as specified in RSS-Gen.

Equipment shall meet the unwanted emission limits, specified in table 3, outside each frequency block group. For each channel bandwidth supported by the equipment under test, the unwanted emissions shall be measured and reported for two channel frequencies: one located as close as possible to the low end and one located as close as possible to the high end of the equipment's operating frequency range.

For the unwanted emission limits, in the 1 MHz bands immediately outside and adjacent to the frequency block group, the power shall be measured with a resolution bandwidth of at least 1% of the occupied bandwidth (OBW). Beyond these 1 MHz bands, a resolution bandwidth of 1 MHz shall be used. A narrower resolution bandwidth may be used, provided that the measured power is integrated over the full required measurement bandwidth of 1 MHz, or 1% of the OBW, as applicable.

For all equipment, the TRP or total conducted power (sum of conducted power across all antenna connectors), where applicable, of the unwanted emissions outside the frequency block or frequency block group shall not exceed the limits shown in the table.

Offset frequency from the edge of the frequency block group (MHz)	Unwanted emission limit
≤ 1	-13 dBm/(1% of OBW)
> 1	-13 dBm/MHz

RSS-139 5.6

Unwanted emissions shall be measured in terms of average values.

For all equipment, the TRP or total conducted power (sum of conducted power across all antenna connectors) of the unwanted emissions outside the frequency block or frequency block group shall not exceed the limits shown in table.

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Offset frequency from the edge of the frequency block group (MHz)	Unwanted emission limit
1 MHz	-13 dBm/(1% of OB*)
>1 MHz	-13 dBm/MHz

RSS-132 5.5

Equipment shall meet the unwanted emission limits specified below:

- i. In the first 1.0 MHz band immediately outside and adjacent to each of the sub-bands specified in Section 5.1, the power of emissions per any 1% of the occupied bandwidth shall be attenuated below the transmitter output power P (dBW) by at least $43 + 10 \log(p)$ dB.
- ii. After the first 1.0 MHz immediately outside and adjacent to each of the sub-bands, the power of emissions in any 100 kHz bandwidth shall be attenuated below the transmitter output power P (dBW) by at least $43 + 10 \log(p)$ dB. If the measurement is performed using 1% of the occupied bandwidth, power integration over 100 kHz is required.

p is the output power specified in watts.

RSS 130 4.7:

The unwanted emissions in any 100 kHz bandwidth on any frequency outside the low frequency edge and the high frequency edge of each frequency block range(s), shall be attenuated below the transmitter power, P (dBW), by at least $43 + 10 \log_{10} p$ (watts), dB. However, in the 100 kHz band immediately outside of the equipment's frequency block range, a resolution bandwidth of 30 kHz may be employed.

In addition to the limit outlined in [section 4.7.1](#) above, equipment operating in the frequency bands 746-756 MHz and 777-787 MHz shall also comply with the following restrictions:

- a. the power of any unwanted emissions in any 6.25 kHz bandwidth for all frequencies between 763-775 MHz and 793-806 MHz shall be attenuated below the transmitter power, P (dBW), by at least:
 - i. $76 + 10 \log_{10} p$ (watts), dB, for base and fixed equipment and
 - ii. $65 + 10 \log_{10} p$ (watts), dB, for mobile and portable equipment
- b. the e.i.r.p. in the band 1559-1610 MHz shall not exceed -70 dBW/MHz for wideband signal and -80 dBW for discrete emission with bandwidth less than 700 Hz.

RSS 140 4.4:

The power of any unwanted emission outside the bands 758-768 MHz and 788-798 MHz shall be attenuated below the transmitter output power P in dBW as follows, where p is the transmitter output power in watts:

- a. For any frequency between 769-775 MHz and 799-806 MHz:
 - i. $76 + 10 \log(p)$, dB in a 6.25 kHz band for fixed and base station equipment
 - ii. $65 + 10 \log(p)$, dB in a 6.25 kHz band for mobile and portable/hand-held equipment
- b. For any frequency between 775-788 MHz, above 806 MHz, and below 758 MHz: $43 + 10 \log(p)$, dB in a bandwidth of 100 kHz or greater. However, in the 100 kHz bands immediately outside and adjacent to the frequency bands 758-768 MHz and 788-798 MHz, a resolution bandwidth of 30 kHz may be employed.

In addition, the equivalent isotropically radiated power (e.i.r.p.) of all emissions, including harmonics in the band 1559-1610 MHz, shall not exceed -70 dBW/MHz for wideband emissions, and -80 dBW/kHz for

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discrete emissions of less than 700 Hz bandwidth.

RSS 195 5.6:

The transmitter unwanted emissions shall be measured with a resolution bandwidth of 1 MHz. A smaller resolution bandwidth is permitted provided that the measured power is integrated over the full required measurement bandwidth of 1 MHz. However, in the 1 MHz bands immediately adjacent to the edges of the frequency range(s) in which the equipment is allowed to operate, a resolution bandwidth of as close as possible to, without being less than 1% of the occupied bandwidth, shall be employed provided that the measured power is integrated over the full required measurement bandwidth of 1 MHz.

Mobile, Portable and Low-Power Fixed Subscriber Equipment:

Table 2 — Unwanted Emissions for Mobile, Portable and Low-Power Fixed Subscriber Equipment	
Frequency (MHz)	Attenuation (dB)
<2200	$43 + 10 \log_{10}(p)$
2200 - 2288	$70 + 10 \log_{10}(p)$
2288 - 2292	$67 + 10 \log_{10}(p)$
2292 - 2296	$61 + 10 \log_{10}(p)$
2296 - 2300	$55 + 10 \log_{10}(p)$
2300 - 2305	$43 + 10 \log_{10}(p)$
2305 - 2320	$43 + 10 \log_{10}(p)$ ^{Note}
2320 - 2324	$55 + 10 \log_{10}(p)$
2324 - 2328	$61 + 10 \log_{10}(p)$
2328 - 2337	$67 + 10 \log_{10}(p)$
2337 - 2341	$61 + 10 \log_{10}(p)$
2341 - 2345	$55 + 10 \log_{10}(p)$
2345 - 2360	$43 + 10 \log_{10}(p)$ ^{Note}
2360 - 2365	$43 + 10 \log_{10}(p)$
2365 - 2395	$70 + 10 \log_{10}(p)$
>2395	$43 + 10 \log_{10}(p)$
Note: Measured at the edges of the highest and lowest frequency range(s) in which the equipment is designed to operate. See RSS 195 5.2 for the permitted frequency ranges for various equipment types.	

6.3.2. Method of Measurement

The measurements procedures in TIA-603E-2016 are used.

The spectrum was scanned from 30 MHz to the 10th harmonic of the highest frequency generated within the equipment. The resolution bandwidth is set as outlined in FCC standards.

The spectrum is scanned with the mobile station transmitting at carrier frequencies that pertain to low, mid and high channels of LTE Band.

The procedure of radiated spurious emissions is as follows

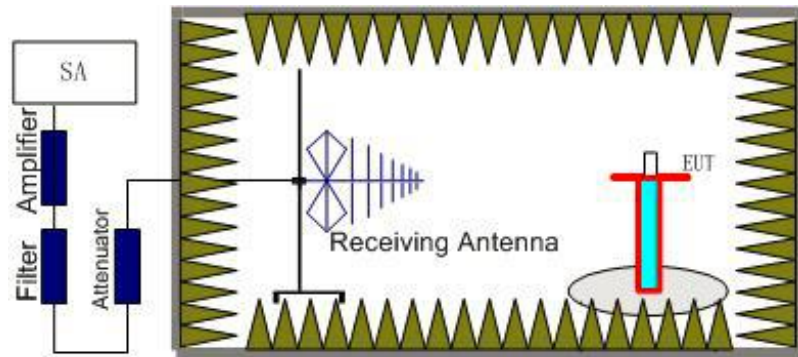
1. EUT was placed on a 1.5 meter high non-conductive stand at a 3 meter test distance from the receive antenna. A receiving antenna was placed on the antenna mast 3 meters from the EUT for emission measurements. The height of receiving antenna is 1.5m. The test setup refers to figure below. Detected

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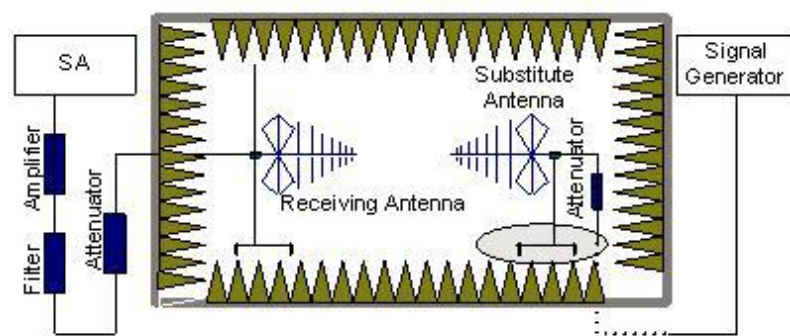
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emissions were maximized at each frequency by rotating the EUT through 360° and adjusting the receiving antenna polarization. The radiated emission measurements of all non-harmonic and harmonics of the transmit frequency through the 10th harmonic were measured with peak detector.



2. The EUT is then put into continuously transmitting mode at its maximum power level during the test. And the maximum value of the receiver should be recorded as (P_r).
3. The EUT shall be replaced by a substitution antenna. The test setup refers to figure below.



In the chamber, an substitution antenna for the frequency band of interest is placed at the reference point of the chamber. An RF Signal source for the frequency band of interest is connected to the substitution antenna with a cable that has been constructed to not interfere with the radiation pattern of the antenna. A power (P_{Mea}) is applied to the input of the substitution antenna, and adjust the level of the signal generator output until the value of the receiver reach the previously recorded (P_r). The power of signal source (P_{Mea}) is recorded. The test should be performed by rotating the test item and adjusting the receiving antenna polarization.

4. The Path loss (P_{cl}) between the Signal Source with the Substitution Antenna and the Substitution Antenna Gain (G_a) should be recorded after test.

A amplifier should be connected in for the test.

The Path loss (P_{cl}) is the summation of the cable loss .

The measurement results are obtained as described below:

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Power(EIRP)=PMea- Pcl+ Ga

5. This value is EIRP since the measurement is calibrated using an antenna of known gain (2.15 dBi) and known input power.

6. ERP can be calculated from EIRP by subtracting the gain of the dipole, ERP = EIRP -2.15dBi

6.3.3. Measurement Uncertainty

Expanded Uncertainty	30MHz-200MHz 3.48 dB (k=2) 200MHz-1000MHz 3.64 dB (k=2) 1000MHz-3000MHz 3.62 dB (k=2) 3000MHz-18000MHz 3.40 dB (k=2) 18000MHz-26500MHz 4.52 dB (k=2) 26500MHz-40000MHz 4.68 dB (k=2)
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6.3.4. Measurement Results

Band	BW (MHz)	RB Config	Modulation	Channel	Frequency Range
Band 7	5	OneRB_low	QPSK	Low	30MHz~26.5GHz
				Middle	30MHz~26.5GHz
				High	30MHz~26.5GHz

RSE-LTE7-L

Frequency (MHz)	PMea (dBm)	Pcl (dBm)	Ga (dBd)	Test Result (dBm)	Limit (dBm)	Margin(dBm)	Polarization
5005.6	-47.39	7.8	9.6	-45.59	-25	20.59	V
7507.6	-40.5	9.7	11.6	-38.6	-25	13.60	H
10010.8	-31.82	11.2	12.5	-30.52	-25	5.52	H
12513.8	-34.01	12.7	12.3	-34.41	-25	9.41	V
16862.5	-29.6	16.3	12.3	-33.6	-25	8.60	H

RSE-LTE7-M

Frequency (MHz)	PMea (dBm)	Pcl (dBm)	Ga (dBd)	Test Result (dBm)	Limit (dBm)	Margin(dBm)	Polarization
5070.4	-45.29	7.8	9.6	-43.49	-25	18.49	V
7605.2	-42.26	9.7	11.6	-40.36	-25	15.36	V
10140.8	-34.56	11.3	12.5	-33.36	-25	8.36	H

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12674.8	-36.64	12.7	12.3	-37.04	-25	12.04	V
16022.5	-32.88	15.0	12.3	-35.58	-25	10.58	H

RSE-LTE7-H

Frequency (MHz)	PMea (dBm)	Pcl (dBm)	Ga (dBd)	Test Result (dBm)	Limit (dBm)	Margin(dBm)	Polarization
5135.2	-46.66	7.9	9.4	-45.16	-25	20.16	V
7703.2	-40.42	9.8	11.8	-38.42	-25	13.42	V
10270.8	-32.81	11.5	12.3	-32.01	-25	7.01	H
12837.5	-35.76	12.5	12.3	-35.96	-25	10.96	V
15406.5	-32.49	14.4	12.3	-34.59	-25	9.59	V
17310.5	-32.04	15.8	12.3	-35.54	-25	10.54	H

Note: Only worse case is recorded in this report.

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Annex A EUT Photos

See the document ” 25B02W000010-External Photos”.

See the document ” 25B02W000010-Internal Photos”.

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Annex B Deviations from Prescribed Test Methods

No deviation from Prescribed Test Methods.

*****END OF REPORT*****

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