

RF Test Report

Applicant : PepperlFuchs SE

Product Name : Phone

Trade Name :  **PEPPERL+FUCHS**

Model Number : Smart-Ex 03

Applicable Standard : FCC 47 CFR PART 22H
FCC 47 CFR PART 24E
FCC 47 CFR PART 27
FCC 47 CFR PART 90S
FCC 47 CFR PART 90R
FCC 47 CFR PART 96
ANSI C63.26 2015

Received Date : Apr. 20, 2023

Test Period : Aug. 02 ~ Oct. 22, 2023

Issued Date : Nov. 28, 2023

Issued by

Eurofins E&E Wireless Taiwan Co., Ltd.
No. 140-1, Changan Street, Bade District,
Taoyuan City 334025, Taiwan (R.O.C.)
Tel : +886-3-2710188 / Fax : +886-3-2710190



Taiwan Accreditation Foundation accreditation number: 1330
Frequency Range: 9 kHz to 325 GHz (Bade test site)
Test Firm Registration Number: 226252 (Bade test site)
Test Firm Registration Number: 191812 (Wugu test site)

Note:

1. The test results are valid only for samples provided by customers and under the test conditions described in this report.
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3. The relevant information is provided by customers in this test report. According to the correctness, appropriateness or completeness of the information provided by the customer, if there is any doubt or error in the information which affects the validity of the test results, the laboratory does not take the responsibility.

Revision History

Rev.	Issued Date	Description	Revised by
00	Nov. 28, 2023	Initial Issue	Snow Wang

Verification of Compliance

Applicant : PepperlFuchs SE

Product Name : Phone

Trade Name :  **PEPPERL+FUCHS**

Model Number : Smart-Ex 03

FCC ID : 2AXZAS03GR01

Applicable Standard : FCC 47 CFR PART 22H
FCC 47 CFR PART 24E
FCC 47 CFR PART 27
FCC 47 CFR PART 90S
FCC 47 CFR PART 90R
FCC 47 CFR PART 96
ANSI C63.26 2015

Test Result : Complied

Performing Lab. : Eurofins E&E Wireless Taiwan Co., Ltd.
No. 140-1, Changan Street, Bade District,
Taoyuan City 334025, Taiwan (R.O.C.)
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Taiwan Accreditation Foundation accreditation number: 1330

Eurofins E&E Wireless Taiwan Co., Ltd. tested the above equipment in accordance with the requirements set forth in the above standards. All indications of Pass/Fail in this report are opinions expressed by Eurofins E&E Wireless Taiwan Co., Ltd. based on interpretations and/or observations of test results. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

Approved By : _____

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1 General Information

1.1. Summary of Test Result

FCC Rule	Description	Result
§2.1046	Conducted Output Average Power	Reference
§22.913 §24.232 §27. 50 §90.542(Part 90R) §90.635(Part 90S) §96.41(b)	Equivalent Isotropic Radiated Power / Equivalent Radiated Power	Pass
§2.1055 §22.355 §24.235 §27. 54	Frequency Stability	Pass
§2.1049	Emission Bandwidth & Occupied Bandwidth	Reference
§24.232 §27.50 §96.41(g)	Peak to average ratio	Pass
§2.1051 §22.917 §24.238 §27.53 §90.543(Part 90R) §96.41(e)	Band Edge	Pass
§2.1051 §22.917 §24.238 §27.53 §90.543(Part 90R) §96.41(e)	Conducted Spurious Emissions	Pass
§2.1053 §22.917 §24.238 §27.53 §90.543(Part 90R) §96.41(e)	Radiated Spurious Emissions	Pass
§96.47	End user device additional requirements.	Pass

Decision Rule

- ☒ Uncertainty is not included.
- ☐ Uncertainty is included.

1.2. Testing Location

Lab Name: Eurofins E&E Wireless Taiwan Co., Ltd.
 Site Address: ☒ No. 140-1, Changan Street, Bade District, Taoyuan City 334025, Taiwan (R.O.C.)
 Site Address: ☐ No. 2, Wuquan 5th Rd. Wugu Dist., New Taipei City, Taiwan (R.O.C.)

1.3. Measurement Uncertainty

Parameter	Uncertainty			
	BD	WG		
Conducted Output Average Power	1.1 dB	1.1 dB		
Effective Radiated Power / Equivalent Isotropic Radiated Power	1.1 dB	1.1 dB		
Frequency Stability	1.4 x 10 ⁻⁷ x fc (Hz)	2.0 x 10 ⁻⁷ x fc (Hz)		
Emission Bandwidth & Occupied Bandwidth	4.5 %	4.5 %		
Peak to Average Ratio	1.1 dB	1.1 dB		
Band Edge	1.1 dB	1.1 dB		
Conducted Spurious Emission	1.1 dB	1.1 dB		
Parameter	Uncertainty			
	96601-BD	96603-BD	96602-WG	96603-WG
Radiated Emission	6.3 dB	6.3 dB	6.3 dB	6.3 dB

1.4. Test Site Environment

Items	Required (IEC 68-1)	Interval(*)
Temperature (°C)	15-35	20-30
Humidity (%RH)	25-75	45-75

(*)The measurement ambient temperature is within this range.

Test Setting Condition		
L.V.	Low Voltage	AC 102 V
N.V.	Normal Voltage	AC 120 V
H.V.	High Voltage	AC 138 V
L.T.	Low Temperature	-20 °C
N.T.	Normal Temperature	+25 °C
H.T.	High Temperature	+60 °C

2 EUT Description

The product specifications of the EUT presented in the report are declared by the manufacturer who shall take full responsibility for the authenticity(except E.R.P. /E.I.R.P., Occupied Bandwidth, Emission Designator).

Applicant	PepperlFuchs SE Lilienthalstrasse 200, Mannheim Germany		
Product Name	Phone		
Trade Name	 PEPPERL+FUCHS		
Model Number	Smart-Ex 03		
Variants Description	Smart-Ex 03 is provided to the end user in two variants, one with camera features and the other as a non-camera variant. The camera modules are also populated in the non-camera variant; only SW deactivation and assembling physical camera opening covers, which are not metal, are required. Therefore, the testing was completed on the DUT with the camera features only.		
FCC ID	2AXZAS03GR01		
Operate Band	Frequency Range (MHz)	Modulation	
GSM/GPRS/EGPRS 850	UL: 824.2 ~ 848.8	GMSK, 8PSK	
	DL: 869.2 ~ 893.8		
GSM/GPRS/EGPRS 1900	UL: 1850.2 ~ 1909.8	GMSK, 8PSK	
	DL: 1930.2 ~ 1989.8		
WCDMA(RMC12.2K)/HSDPA/HSUPA Band 2	UL: 1850 ~ 1910	QPSK, BPSK	
	DL: 1930 ~ 1990		
WCDMA(RMC12.2K)/HSDPA/HSUPA Band 4	UL: 1710 ~ 1755	QPSK, BPSK	
	DL: 2110 ~ 2155		
WCDMA(RMC12.2K)/HSDPA/HSUPA Band 5	UL: 824 ~ 849	QPSK, BPSK	
	DL: 869 ~ 894		
Operate Band	Frequency Range (MHz)	Modulation	Channel Bandwidth
LTE Band 2	UL: 1850 ~ 1910	QPSK, 16QAM	1.4 MHz, 3 MHz, 5 MHz, 10 MHz, 15 MHz, 20 MHz
	DL: 1930 ~ 1990	QPSK, 16QAM	
LTE Band 4	UL: 1710 ~ 1755	QPSK, 16QAM	1.4 MHz, 3 MHz, 5 MHz, 10 MHz, 15 MHz, 20 MHz
	DL: 2110 ~ 2155	QPSK, 16QAM	
LTE Band 5	UL: 824 ~ 849	QPSK, 16QAM	1.4 MHz, 3 MHz, 5 MHz, 10 MHz
	DL: 869 ~ 894	QPSK, 16QAM	
LTE Band 7	UL: 2500 ~ 2570	QPSK, 16QAM	5 MHz, 10 MHz, 15 MHz, 20 MHz
	DL: 2620 ~ 2690	QPSK, 16QAM	
LTE Band 12	UL: 699 ~ 716	QPSK, 16QAM	1.4 MHz, 3 MHz, 5 MHz, 10 MHz
	DL: 728 ~ 746	QPSK, 16QAM	
LTE Band 13	UL: 777 ~ 787	QPSK, 16QAM	5 MHz, 10 MHz
	DL: 746 ~ 756	QPSK, 16QAM	

Operate Band		Frequency Range (MHz)	Modulation	Channel Bandwidth
LTE Band 14(Part 90R)		UL: 788 ~ 798	QPSK, 16QAM	5 MHz, 10 MHz
		DL: 758 ~ 768	QPSK, 16QAM	
LTE Band 25		UL: 1850 ~ 1915	QPSK, 16QAM	1.4 MHz, 3 MHz, 5 MHz, 10 MHz, 15 MHz, 20 MHz
		DL: 1930 ~ 1995	QPSK, 16QAM	
LTE Band 26(Part 90S)		UL: 814.7 ~ 823.3	QPSK, 16QAM	1.4 MHz, 3 MHz, 5 MHz, 10 MHz
		DL: 859.7 ~ 868.3	QPSK, 16QAM	
LTE Band 26(Part 22)		UL: 824 ~ 849	QPSK, 16QAM	1.4 MHz, 3 MHz, 5 MHz, 10 MHz, 15 MHz
		DL: 869 ~ 894	QPSK, 16QAM	
LTE Band 30		UL: 2305 ~ 2315	QPSK, 16QAM	5 MHz, 10 MHz
		DL: 2350 ~ 2360	QPSK, 16QAM	
LTE Band 38		UL/DL: 2570 ~ 2620	QPSK, 16QAM	5 MHz, 10 MHz, 15 MHz, 20 MHz
LTE Band 40		UL/DL: 2300 ~ 2400	QPSK, 16QAM	5 MHz, 10 MHz
LTE Band 41		UL/DL: 2496 ~ 2690	QPSK, 16QAM	5 MHz, 10 MHz, 15 MHz, 20 MHz
LTE Band 42		UL/DL: 3400 ~ 3600	QPSK, 16QAM	5 MHz, 10 MHz, 15 MHz, 20 MHz
LTE Band 43		UL/DL: 3600 ~ 3800	QPSK, 16QAM	5 MHz, 10 MHz, 15 MHz, 20 MHz
LTE Band 48		UL/DL: 3550 ~ 3700	QPSK, 16QAM	5 MHz, 10 MHz, 15 MHz, 20 MHz
LTE Band 66		UL: 1710 ~ 1780	QPSK, 16QAM	1.4 MHz, 3 MHz, 5 MHz, 10 MHz, 15 MHz, 20 MHz
		DL: 2110 ~ 2200	QPSK, 16QAM	
LTE Band 71		UL: 663 ~ 698	QPSK, 16QAM	5 MHz, 10 MHz, 15 MHz, 20 MHz
		DL: 617 ~ 652	QPSK, 16QAM	
CA	Intra-band contiguous UL CA	CA_7C CA_66B CA_66C CA_38C CA_41C		
	Inter-band CA (two bands)	CA_2A-4A CA_2A-5A CA_2A-12A CA_2A-13A CA_4A-5A CA_4A-12A CA_4A-13A CA_5A-7A CA_41A-42A		
Operate Temp. Range		-20 ~ +60 °C		
EUT Power Rating		3.70 Vdc, 4400 mAh		

Antenna information		
Type	Max. Gain (dBi)	
PIFA Antennas (LDS technology)	600-700 MHz	-2.4
	700-800 MHz	-1.0
	800-900 MHz	-1.2
	1700-1800 MHz	0.5
	1800-1900 MHz	2.0
	1900-2000 MHz	-0.2
	2300 MHz	0.9
	2500-2700 MHz	-0.4
	3300-3800 MHz	2.5
	3800-4200 MHz	-2.9
	4200-5000 MHz	-4.2

Band	E.R.P. /E.I.R.P.		Occupied Bandwidth (MHz)	Emission Designator
	(dBm)	(W)		
GSM 850	28.80	0.759	0.24642	246KGXW
GPRS 850	28.69	0.740	0.24533	245KG7W
EGPRS 850	22.67	0.185	0.24661	247KG7W
GSM 1900	31.9	1.531	0.24447	244KGXW
GPRS 1900	31.3	1.346	0.24451	245KG7W
EGPRS 1900	27.3	0.541	0.24564	246KG7W
WCDMA(RMC12.2K)/HSDPA/HSUPA Band 2	25.54	0.358	4.1502	4M15F9W
WCDMA(RMC12.2K)/HSDPA/HSUPA Band 4	25.57	0.361	4.1430	4M14F9W
WCDMA(RMC12.2K)/HSDPA/HSUPA Band 5	20.11	0.103	4.1557	4M16F9W

Band	Channel Bandwidth	Modulation	E.I.R.P.		Occupied Bandwidth (MHz)	Emission Designator
			(dBm)	(W)		
LTE Band 2	1.4 MHz	QPSK	25.08	0.322	1.0943	1M09G7D
		16QAM	24.46	0.279	1.0959	1M10W7D
		64QAM	23.67	0.233	1.0926	1M09W7D
	3 MHz	QPSK	25.14	0.327	2.7024	2M70G7D
		16QAM	24.45	0.279	2.6936	2M69W7D
		64QAM	23.63	0.231	2.6956	2M70W7D
	5 MHz	QPSK	25.18	0.330	4.4977	4M50G7D
		16QAM	24.44	0.278	4.4988	4M50W7D
		64QAM	23.69	0.234	4.5129	4M51W7D
	10 MHz	QPSK	25.10	0.324	9.0288	9M02G7D
		16QAM	24.36	0.273	8.9876	9M00W7D
		64QAM	23.66	0.232	9.015	9M01W7D
	15 MHz	QPSK	25.15	0.327	13.522	13M5G7D
		16QAM	24.42	0.277	13.491	13M4W7D
		64QAM	23.64	0.231	13.485	13M5W7D
	20 MHz	QPSK	25.20	0.331	18.100	18M1G7D
		16QAM	24.41	0.276	18.021	18M0W7D
		64QAM	23.66	0.232	18.007	18M0W7D

Band	Channel Bandwidth	Modulation	E.I.R.P.		Occupied Bandwidth (MHz)	Emission Designator
			(dBm)	(W)		
LTE Band 4	1.4 MHz	QPSK	23.74	0.237	1.0968	1M10G7D
		16QAM	23.08	0.203	1.0964	1M10W7D
		64QAM	22.27	0.169	1.0920	1M09W7D
	3 MHz	QPSK	23.75	0.237	2.7025	2M70G7D
		16QAM	23.06	0.202	2.6994	2M70W7D
		64QAM	22.29	0.169	2.6956	2M70W7D
	5 MHz	QPSK	23.72	0.236	4.4977	4M50G7D
		16QAM	23.02	0.200	4.4987	4M50W7D
		64QAM	22.30	0.170	4.5114	4M51W7D
	10 MHz	QPSK	23.71	0.235	9.0326	9M03G7D
		16QAM	23.07	0.203	8.9806	9M00W7D
		64QAM	22.25	0.168	9.0107	9M01W7D
	15 MHz	QPSK	23.73	0.236	13.519	13M5G7D
		16QAM	23.12	0.205	13.493	13M5W7D
		64QAM	22.22	0.167	13.485	13M5W7D
	20 MHz	QPSK	23.77	0.238	18.094	18M1G7D
		16QAM	23.06	0.202	18.017	18M0W7D
		64QAM	22.27	0.169	18.026	18M0W7D
LTE Band 5	1.4 MHz	QPSK	19.82	0.096	1.0901	1M09G7D
		16QAM	19.18	0.083	1.0883	1M09W7D
		64QAM	18.48	0.070	1.0881	1M09W7D
	3 MHz	QPSK	19.88	0.097	2.705	2M70G7D
		16QAM	19.19	0.083	2.6896	2M69W7D
		64QAM	18.48	0.070	2.6966	2M70W7D
	5 MHz	QPSK	19.83	0.096	4.5069	4M51G7D
		16QAM	19.21	0.083	4.5224	4M52W7D
		64QAM	18.45	0.070	4.5046	4M50W7D
	10 MHz	QPSK	19.90	0.098	9.0021	9M00G7D
		16QAM	19.18	0.083	9.0226	9M02W7D
		64QAM	18.43	0.070	9.0028	9M01W7D

Band	Channel Bandwidth	Modulation	E.I.R.P.		Occupied Bandwidth (MHz)	Emission Designator
			(dBm)	(W)		
LTE Band 7	5 MHz	QPSK	22.66	0.185	4.5209	4M52G7D
		16QAM	21.91	0.155	4.5069	4M51W7D
		64QAM	21.15	0.130	9.0158	4M51W7D
	10 MHz	QPSK	22.64	0.184	9.0190	9M02G7D
		16QAM	21.92	0.156	9.0396	9M04W7D
		64QAM	21.17	0.131	9.0211	9M02W7D
	15 MHz	QPSK	22.61	0.182	13.508	13M5G7D
		16QAM	21.90	0.155	13.512	13M5W7D
		64QAM	21.16	0.131	13.489	13M5W7D
	20 MHz	QPSK	22.69	0.186	17.999	18M0G7D
		16QAM	21.97	0.157	18.004	18M0W7D
		64QAM	21.18	0.131	17.991	18M0W7D
LTE Band 12	1.4 MHz	QPSK	18.64	0.073	1.0901	1M09G7D
		16QAM	17.98	0.063	1.0996	1M10W7D
		64QAM	17.22	0.053	1.0890	1M09W7D
	3 MHz	QPSK	18.66	0.073	2.7045	2M70G7D
		16QAM	17.98	0.063	2.6963	2M70W7D
		64QAM	17.22	0.053	2.7001	2M70W7D
	5 MHz	QPSK	18.69	0.074	4.5033	4M50G7D
		16QAM	17.98	0.063	4.5155	4M52W7D
		64QAM	17.18	0.052	4.5033	4M50W7D
	10 MHz	QPSK	18.73	0.075	9.0023	9M00G7D
		16QAM	18.05	0.064	9.0197	9M02W7D
		64QAM	17.23	0.053	9.0024	9M02W7D
LTE Band 13	5 MHz	QPSK	20.14	0.103	4.5125	4M51G7D
		16QAM	19.39	0.087	4.5257	4M53W7D
		64QAM	18.62	0.073	4.5088	4M51W7D
	10 MHz	QPSK	20.16	0.104	8.974	9M00G7D
		16QAM	19.38	0.087	8.9943	9M00W7D
		64QAM	18.60	0.072	8.9849	9M00W7D

Band	Channel Bandwidth	Modulation	E.I.R.P.		Occupied Bandwidth (MHz)	Emission Designator
			(dBm)	(W)		
LTE Band 14	5 MHz	QPSK	20.11	0.103	4.5076	4M51G7D
		16QAM	19.42	0.087	4.5220	4M52W7D
		64QAM	18.65	0.073	4.5068	4M51W7D
	10 MHz	QPSK	20.14	0.103	9.0045	9M00G7D
		16QAM	19.38	0.087	9.0254	9M03W7D
		64QAM	18.60	0.072	9.0043	9M00W7D
LTE Band 25	1.4 MHz	QPSK	25.24	0.334	1.0922	1M09G7D
		16QAM	24.51	0.282	1.0937	1M09W7D
		64QAM	23.79	0.239	1.0901	1M09W7D
	3 MHz	QPSK	25.22	0.333	2.7056	2M71G7D
		16QAM	24.42	0.277	2.6915	2M69W7D
		64QAM	23.82	0.241	2.6968	2M70W7D
	5 MHz	QPSK	25.25	0.335	4.5083	4M51G7D
		16QAM	24.53	0.284	4.5242	4M50W7D
		64QAM	23.81	0.240	4.5080	4M51W7D
	10 MHz	QPSK	25.23	0.333	9.0291	9M03G7D
		16QAM	24.58	0.287	9.0373	9M04W7D
		64QAM	23.82	0.241	9.0266	9M03W7D
	15 MHz	QPSK	25.26	0.336	13.565	13M57G7D
		16QAM	24.47	0.280	13.502	13M50W7D
		64QAM	23.82	0.241	13.498	13M50W7D
	20 MHz	QPSK	25.29	0.338	18.084	18M09G7D
		16QAM	24.46	0.279	17.998	18M00W7D
		64QAM	23.76	0.238	17.985	18M00W7D

Band	Channel Bandwidth	Modulation	E.I.R.P.		Occupied Bandwidth (MHz)	Emission Designator
			(dBm)	(W)		
LTE Band 26 814~824MHz	1.4 MHz	QPSK	19.82	0.096	1.0899	1M09G7D
		16QAM	19.15	0.082	1.0889	1M09W7D
		64QAM	18.44	0.070	1.0879	1M09W7D
	3 MHz	QPSK	19.84	0.096	2.7046	2M71G7D
		16QAM	19.15	0.082	2.7097	2M71W7D
		64QAM	18.45	0.070	2.6957	2M70W7D
	5 MHz	QPSK	19.85	0.097	4.5056	4M51G7D
		16QAM	19.10	0.081	4.5195	4M52W7D
		64QAM	18.44	0.070	4.5061	4M51W7D
	10 MHz	QPSK	19.88	0.097	8.9949	9M00G7D
		16QAM	19.21	0.083	9.0179	9M02W7D
		64QAM	18.42	0.070	8.9967	9M00W7D
LTE Band 26 824~849MHz	1.4 MHz	QPSK	19.83	0.096	1.0900	1M09G7D
		16QAM	19.23	0.084	1.0886	1M09W7D
		64QAM	18.39	0.069	1.0882	1M09W7D
	3 MHz	QPSK	19.86	0.097	2.7053	2M71G7D
		16QAM	19.14	0.082	2.6908	2M69W7D
		64QAM	18.45	0.070	2.7004	2M70W7D
	5 MHz	QPSK	19.88	0.097	4.5186	4M52G7D
		16QAM	19.09	0.081	4.5219	4M52W7D
		64QAM	18.45	0.070	4.5059	4M51W7D
	10 MHz	QPSK	19.89	0.097	9.0028	9M00G7D
		16QAM	19.13	0.082	9.0185	9M02W7D
		64QAM	18.38	0.069	9.0024	9M02W7D
	15 MHz	QPSK	19.90	0.098	13.474	13M5G7D
		16QAM	19.14	0.082	13.469	13M5W7D
		64QAM	18.46	0.070	13.463	13M5W7D

Band	Channel Bandwidth	Modulation	E.I.R.P.		Occupied Bandwidth (MHz)	Emission Designator
			(dBm)	(W)		
LTE Band 30	5 MHz	QPSK	21.96	0.157	4.5081	4M51G7D
		16QAM	21.24	0.133	4.5230	4M52W7D
		64QAM	20.57	0.114	4.5064	4M51W7D
	10 MHz	QPSK	21.97	0.157	9.0141	9M01G7D
		16QAM	21.20	0.132	9.0372	9M04W7D
		64QAM	20.57	0.114	9.0160	9M02W7D
LTE Band 38	5 MHz	QPSK	22.56	0.180	4.5112	4M51G7D
		16QAM	21.82	0.152	4.5311	4M53W7D
		64QAM	21.04	0.127	4.5058	4M51W7D
	10 MHz	QPSK	22.50	0.178	9.0254	9M03G7D
		16QAM	21.76	0.150	9.0066	9M01W7D
		64QAM	21.08	0.128	9.0304	9M03W7D
	15 MHz	QPSK	22.52	0.179	13.517	13M5G7D
		16QAM	21.80	0.151	13.513	13M5W7D
		64QAM	21.06	0.128	13.542	13M5W7D
	20 MHz	QPSK	22.58	0.181	18.015	18M0G7D
		16QAM	21.90	0.155	18.036	18M0W7D
		64QAM	21.06	0.128	18.030	18M0W7D
LTE Band 40 2305~2315MHz	5 MHz	QPSK	21.99	0.158	4.5101	4M51G7D
		16QAM	21.35	0.136	4.5292	4M53W7D
		64QAM	20.56	0.114	4.5158	4M52W7D
	10 MHz	QPSK	22.03	0.160	9.0295	9M03G7D
		16QAM	21.27	0.134	8.9999	9M00W7D
		64QAM	20.51	0.112	9.0155	9M02W7D
LTE Band 40 2350~2360MHz	5 MHz	QPSK	21.95	0.157	4.5121	4M51G7D
		16QAM	21.26	0.134	4.5289	4M53W7D
		64QAM	20.49	0.112	4.5052	4M51W7D
	10 MHz	QPSK	21.97	0.157	9.0223	9M02G7D
		16QAM	21.19	0.132	9.0061	9M01W7D
		64QAM	20.36	0.109	9.0174	9M02W7D

Band	Channel Bandwidth	Modulation	E.I.R.P.		Occupied Bandwidth (MHz)	Emission Designator
			(dBm)	(W)		
LTE Band 41	5 MHz	QPSK	22.52	0.179	4.5161	4M52G7D
		16QAM	21.84	0.153	4.5291	4M53W7D
		64QAM	21.07	0.128	4.5065	4M51W7D
	10 MHz	QPSK	22.54	0.179	9.0248	9M03G7D
		16QAM	21.86	0.153	9.0051	9M01W7D
		64QAM	21.10	0.129	9.0192	9M02W7D
	15 MHz	QPSK	22.51	0.178	13.526	13M5G7D
		16QAM	21.87	0.154	13.512	13M5W7D
		64QAM	21.08	0.128	13.532	13M5W7D
	20 MHz	QPSK	22.61	0.182	18.023	18M0G7D
		16QAM	21.89	0.155	18.027	18M0W7D
		64QAM	21.12	0.129	18.025	18M0W7D
LTE Band 42 3450~3550MHz	5 MHz	QPSK	20.35	0.108	4.5106	4M51G7D
		16QAM	20.30	0.107	4.5292	4M53W7D
		64QAM	19.94	0.099	4.5053	4M51W7D
	10 MHz	QPSK	20.34	0.108	9.0217	9M02G7D
		16QAM	20.27	0.106	8.9989	9M00W7D
		64QAM	19.89	0.097	9.0248	9M02W7D
	15 MHz	QPSK	20.33	0.108	13.508	13M5G7D
		16QAM	20.29	0.107	13.521	13M5W7D
		64QAM	19.92	0.098	13.536	13M5W7D
	20 MHz	QPSK	20.38	0.109	18.028	18M0G7D
		16QAM	20.29	0.107	18.028	18M0W7D
		64QAM	19.94	0.099	18.020	18M0W7D

Band	Channel Bandwidth	Modulation	E.I.R.P.		Occupied Bandwidth (MHz)	Emission Designator
			(dBm)	(W)		
LTE Band 42 3550~3600MHz	5 MHz	QPSK	20.35	0.108	4.5086	4M51G7D
		16QAM	20.29	0.107	4.5122	4M51W7D
		64QAM	19.88	0.097	4.5088	4M51W7D
	10 MHz	QPSK	20.33	0.108	9.0520	9M05G7D
		16QAM	20.26	0.106	8.9927	9M00W7D
		64QAM	19.89	0.097	8.9994	9M00W7D
	15 MHz	QPSK	20.32	0.108	13.558	13M6G7D
		16QAM	20.27	0.106	13.525	13M5W7D
		64QAM	19.85	0.097	13.562	13M6W7D
	20 MHz	QPSK	20.37	0.109	18.050	18M1G7D
		16QAM	20.25	0.106	18.027	18M0W7D
		64QAM	19.93	0.098	18.021	18M0W7D
LTE Band 43 3600~3700MHz	5 MHz	QPSK	20.38	0.109	4.5043	4M51G7D
		16QAM	20.25	0.106	4.5134	4M51W7D
		64QAM	19.81	0.096	4.5033	4M50W7D
	10 MHz	QPSK	20.36	0.109	9.0523	9M05G7D
		16QAM	20.24	0.106	8.9962	9M00W7D
		64QAM	19.83	0.096	9.0006	9M00W7D
	15 MHz	QPSK	20.37	0.109	13.568	13M6G7D
		16QAM	20.23	0.105	13.525	13M5W7D
		64QAM	19.80	0.095	13.557	13M6W7D
	20 MHz	QPSK	20.40	0.110	18.042	18M0G7D
		16QAM	20.33	0.108	18.021	18M0W7D
		64QAM	19.80	0.095	18.014	18M0W7D

Band	Channel Bandwidth	Modulation	E.I.R.P.		Occupied Bandwidth (MHz)	Emission Designator
			(dBm)	(W)		
LTE Band 48	5 MHz	QPSK	20.41	0.110	4.5056	4M51G7D
		16QAM	20.37	0.109	4.5147	4M51W7D
		64QAM	19.93	0.098	4.5037	4M50W7D
	10 MHz	QPSK	20.36	0.109	9.0532	9M05G7D
		16QAM	20.36	0.109	8.9938	9M00W7D
		64QAM	19.96	0.099	9.0027	9M00W7D
	15 MHz	QPSK	20.37	0.109	13.555	13M6G7D
		16QAM	20.35	0.108	13.525	13M5W7D
		64QAM	19.91	0.098	13.558	13M6W7D
	20 MHz	QPSK	20.42	0.110	18.051	18M1G7D
		16QAM	20.41	0.110	18.026	18M0W7D
		64QAM	19.94	0.099	18.021	18M0W7D
LTE Band 66	1.4 MHz	QPSK	23.75	0.237	1.0904	1M09G7D
		16QAM	23.03	0.201	1.0954	1M10W7D
		64QAM	22.23	0.167	1.0925	1M09W7D
	3 MHz	QPSK	23.74	0.237	2.7028	2M70G7D
		16QAM	23.05	0.202	2.6977	2M70W7D
		64QAM	22.25	0.168	2.6957	2M70W7D
	5 MHz	QPSK	23.73	0.236	4.4973	4M50G7D
		16QAM	23.09	0.204	4.4977	4M50W7D
		64QAM	22.27	0.169	4.5115	4M51W7D
	10 MHz	QPSK	23.76	0.238	9.0335	9M03G7D
		16QAM	23.07	0.203	8.9986	9M00W7D
		64QAM	22.24	0.167	9.0143	9M01W7D
	15 MHz	QPSK	23.74	0.237	13.523	13M5G7D
		16QAM	23.03	0.201	13.494	13M5W7D
		64QAM	22.29	0.169	13.486	13M5W7D
	20 MHz	QPSK	23.79	0.239	18.113	18M1G7D
		16QAM	23.03	0.201	18.021	18M0W7D
		64QAM	22.23	0.167	18.033	18M0W7D

Band	Channel Bandwidth	Modulation	E.I.R.P.		Occupied Bandwidth (MHz)	Emission Designator
			(dBm)	(W)		
LTE Band 71	5 MHz	QPSK	18.68	0.074	4.4937	4M50G7D
		16QAM	18.00	0.063	4.4967	4M50W7D
		64QAM	17.27	0.053	4.511	4M51W7D
	10 MHz	QPSK	18.69	0.074	9.0024	9M00G7D
		16QAM	17.90	0.062	8.9748	8M97W7D
		64QAM	17.22	0.053	8.9883	9M00W7D
	15 MHz	QPSK	18.67	0.074	13.502	13M5G7D
		16QAM	17.90	0.062	13.471	13M5W7D
		64QAM	17.23	0.053	13.469	13M5W7D
	20 MHz	QPSK	18.72	0.074	18.055	18M1G7D
		16QAM	18.04	0.064	17.97	18M0W7D
		64QAM	17.27	0.053	17.961	18M0W7D

Intra-band contiguous UL CA

Band	Channel Bandwidth (MHz)	Modulation	E.I.R.P.		Occupied Bandwidth (MHz)	Emission Designator
			(dBm)	(W)		
CA_7C	20+20	QPSK	23.31	0.214	37.466	37M5G7D
CA_66B	15+5	QPSK	24.38	0.274	18.609	18M6G7D
CA_66C	20+20	QPSK	24.29	0.269	37.546	37M5G7D
CA_38C	20+20	QPSK	23.45	0.221	37.681	37M7G7D
CA_41C	20+20	QPSK	23.48	0.223	37.685	37M7G7D

2.1. Mode of Operation

Three channels had been tested for each channel bandwidth.

GSM/GPRS/EGPRS 850		
Channel Bandwidth	Channel	Frequency (MHz)
Low CH	128	824.2
Middle CH	190	836.6
High CH	251	848.8

GSM/GPRS/EGPRS 1900		
Channel Bandwidth	Channel	Frequency (MHz)
Low CH	512	1850.2
Middle CH	661	1880.0
High CH	810	1909.8

WCDMA(RMC12.2K)/HSDPA/HSUPA Band 2		
Channel Bandwidth	Channel	Frequency (MHz)
Low CH	9262	1852.4
Middle CH	9400	1880.0
High CH	9538	1907.6

WCDMA(RMC12.2K)/HSDPA/HSUPA Band 4		
Channel Bandwidth	Channel	Frequency (MHz)
Low CH	1312	1712.4
Middle CH	1413	1732.6
High CH	1513	1752.6

WCDMA(RMC12.2K)/HSDPA/HSUPA Band 5		
Channel Bandwidth	Channel	Frequency (MHz)
Low CH	4132	826.4
Middle CH	4183	836.6
High CH	4233	846.6

LTE Band 2						
Channel Bandwidth	1.4 MHz		3 MHz		5 MHz	
	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
Low CH	18607	1850.7	18615	1851.5	18625	1852.5
Middle CH	18900	1880.0	18900	1880.0	18900	1880.0
High CH	19193	1909.3	19185	1908.5	19175	1907.5
Channel Bandwidth	10 MHz		15 MHz		20 MHz	
	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
Low CH	18650	1855.0	18675	1857.5	18700	1860.0
Middle CH	18900	1880.0	18900	1880.0	18900	1880.0
High CH	19150	1905.0	19125	1902.5	19100	1900.0

LTE Band 4						
Channel Bandwidth	1.4 MHz		3 MHz		5 MHz	
	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
Low CH	19957	1710.7	19965	1711.5	19975	1712.5
Middle CH	20175	1732.5	20175	1732.5	20175	1732.5
High CH	20393	1754.3	20385	1753.5	20375	1752.5
Channel Bandwidth	10 MHz		15 MHz		20 MHz	
	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
Low CH	20000	1715.0	20025	1717.5	20050	1720.0
Middle CH	20175	1732.5	20175	1732.5	20175	1732.5
High CH	20350	1750.0	20325	1747.5	20300	1745.0

Note: Regards to the frequency band operation: the lowest, middle and highest frequency of channel were selected to perform the test, then shown on this report.

LTE Band 5				
Channel Bandwidth	1.4 MHz		3 MHz	
	Channel	Frequency (MHz)	Channel	Frequency (MHz)
Low CH	20407	824.7	20415	825.5
Middle CH	20525	836.5	20525	836.5
High CH	20643	848.3	20635	847.5
Channel Bandwidth	5 MHz		10 MHz	
	Channel	Frequency (MHz)	Channel	Frequency (MHz)
Low CH	20425	826.5	20450	829.0
Middle CH	20525	836.5	20525	836.5
High CH	20625	846.5	20600	844.0

LTE Band 7				
Channel Bandwidth	5 MHz		10 MHz	
	Channel	Frequency (MHz)	Channel	Frequency (MHz)
Low CH	20775	2502.5	20800	2505.0
Middle CH	21100	2535.0	21100	2535.0
High CH	21425	2567.5	21400	2565.0
Channel Bandwidth	15 MHz		20 MHz	
	Channel	Frequency (MHz)	Channel	Frequency (MHz)
Low CH	20825	2507.5	20850	2510.0
Middle CH	21100	2535.0	21100	2535.0
High CH	21375	2562.5	21350	2560.0

Note: Regards to the frequency band operation: the lowest, middle and highest frequency of channel were selected to perform the test, then shown on this report.

LTE Band 12				
Channel Bandwidth	1.4 MHz		3 MHz	
	Channel	Frequency (MHz)	Channel	Frequency (MHz)
Low CH	23017	699.7	23025	700.5
Middle CH	23095	707.5	23095	707.5
High CH	23173	715.3	23165	714.5
Channel Bandwidth	5 MHz		10 MHz	
	Channel	Frequency (MHz)	Channel	Frequency (MHz)
Low CH	23035	701.5	23060	704.0
Middle CH	23095	707.5	23095	707.5
High CH	23155	713.5	23130	711.0

LTE Band 13				
Channel Bandwidth	5 MHz		10 MHz	
	Channel	Frequency (MHz)	Channel	Frequency (MHz)
Low CH	23205	779.5	---	---
Middle CH	23230	782.0	23230	782.0
High CH	23255	784.5	---	---

LTE Band 14 (Part 90R)				
Channel Bandwidth	5 MHz		10 MHz	
	Channel	Frequency (MHz)	Channel	Frequency (MHz)
Low CH	23305	790.5	---	---
Middle CH	23330	793	23230	793
High CH	23255	795.5	---	---

Note: Regards to the frequency band operation: the lowest, middle and highest frequency of channel were selected to perform the test, then shown on this report.

LTE Band 25						
Channel Bandwidth	1.4 MHz		3 MHz		5 MHz	
	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
Low CH	26047	1850.7	26055	1851.5	26065	1852.5
Middle CH	26365	1882.5	26365	1882.5	26365	1882.5
High CH	26683	1914.3	26675	1913.5	26665	1912.5
Channel Bandwidth	10 MHz		15 MHz		20 MHz	
	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
Low CH	26090	1855	26115	1857.5	26140	1860
Middle CH	26365	1882.5	26365	1882.5	26365	1882.5
High CH	26640	1910	26615	1907.5	26590	1905

Note: Regards to the frequency band operation: the lowest, middle and highest frequency of channel were selected to perform the test, then shown on this report.

LTE Band 26 (Part 90S)				
Channel Bandwidth	1.4 MHz		3 MHz	
	Channel	Frequency (MHz)	Channel	Frequency (MHz)
Low CH	26697	814.7	26705	815.5
Middle CH	26740	819.0	26740	819.0
High CH	26783	823.3	26775	822.5
Channel Bandwidth	5 MHz		10 MHz	
	Channel	Frequency (MHz)	Channel	Frequency (MHz)
Low CH	26715	816.5	26740	819.0
Middle CH	26740	819.0		
High CH	26765	821.5		

LTE Band 26 (Part 22)						
Channel Bandwidth	1.4 MHz		3 MHz		5 MHz	
	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
Low CH	26797	824.7	26805	825.5	26815	826.5
Middle CH	26915	836.5	26915	836.5	26915	836.5
High CH	27003	848.3	27025	847.5	27015	846.5
Channel Bandwidth	10 MHz		15 MHz		NA	
	Channel	Frequency (MHz)	Channel	Frequency (MHz)	NA	NA
Low CH	26840	829.0	26865	831.5	NA	NA
Middle CH	26915	836.5	26915	836.5	NA	NA
High CH	26990	844.0	26965	841.5	NA	NA

Note: Regards to the frequency band operation: the lowest, middle and highest frequency of channel were selected to perform the test, then shown on this report.

LTE Band 30				
Channel Bandwidth	5 MHz		10 MHz	
	Channel	Frequency (MHz)	Channel	Frequency (MHz)
Low CH	27685	2307.5	---	---
Middle CH	27710	2310.0	27710	2310.0
High CH	27735	2312.5	---	---

LTE Band 38				
Channel Bandwidth	5 MHz		10 MHz	
	Channel	Frequency (MHz)	Channel	Frequency (MHz)
Low CH	37775	2572.5	37800	2575.0
Middle CH	38000	2595.0	38000	2595.0
High CH	38225	2617.5	38200	2615.0
Channel Bandwidth	15 MHz		20 MHz	
	Channel	Frequency (MHz)	Channel	Frequency (MHz)
Low CH	37825	2577.5	37850	2580.0
Middle CH	38000	2595.0	38000	2595.0
High CH	38175	2612.5	38150	2610.0

Note: Regards to the frequency band operation: the lowest, middle and highest frequency of channel were selected to perform the test, then shown on this report.

LTE Band 40				
Channel Bandwidth	5 MHz		10 MHz	
	Channel	Frequency (MHz)	Channel	Frequency (MHz)
Low CH	38725	2307.5	38750	2310
Middle CH	38750	2310	38750	2310
High CH	38775	2312.5	38750	2310

LTE Band 40				
Channel Bandwidth	5 MHz		10 MHz	
	Channel	Frequency (MHz)	Channel	Frequency (MHz)
Low CH	39175	2352.5	39200	2355
Middle CH	39200	2355	39200	2355
High CH	39225	2357.5	39200	2355

LTE Band 41				
Channel Bandwidth	5 MHz		10 MHz	
	Channel	Frequency (MHz)	Channel	Frequency (MHz)
Low CH	39675	2498.5	39700	2501.0
Middle CH	40620	2593.0	40620	2593.0
High CH	41565	2687.5	41540	2685.0
Channel Bandwidth	15 MHz		20 MHz	
	Channel	Frequency (MHz)	Channel	Frequency (MHz)
Low CH	39725	2503.5	39750	2506.0
Middle CH	40620	2593.0	40620	2593.0
High CH	41515	2682.5	41490	2680.0

Note: Regards to the frequency band operation: the lowest, middle and highest frequency of channel were selected to perform the test, then shown on this report.

LTE Band 42				
Channel Bandwidth	5 MHz		10 MHz	
	Channel	Frequency (MHz)	Channel	Frequency (MHz)
Low CH	42115	3452.5	42140	3455
Middle CH	42590	3500	42590	3500
High CH	43065	3547.5	43040	3545
Channel Bandwidth	15 MHz		20 MHz	
	Channel	Frequency (MHz)	Channel	Frequency (MHz)
Low CH	42165	3457.5	42190	3460
Middle CH	42590	3500	42590	3500
High CH	43015	3542.5	42990	3540

LTE Band 42				
Channel Bandwidth	5 MHz		10 MHz	
	Channel	Frequency (MHz)	Channel	Frequency (MHz)
Low CH	43115	3552.5	43140	3555
Middle CH	43340	3575	43340	3575
High CH	43565	3597.5	43540	3595
Channel Bandwidth	15 MHz		20 MHz	
	Channel	Frequency (MHz)	Channel	Frequency (MHz)
Low CH	43165	3557.5	43190	3560
Middle CH	43340	3575	43340	3575
High CH	43515	3592.5	43490	3590

Note: Regards to the frequency band operation: the lowest, middle and highest frequency of channel were selected to perform the test, then shown on this report.

LTE Band 43				
Channel Bandwidth	5 MHz		10 MHz	
	Channel	Frequency (MHz)	Channel	Frequency (MHz)
Low CH	43615	3602.5	43640	3605
Middle CH	44090	3650	44090	3650
High CH	44565	3697.5	44540	3695
Channel Bandwidth	15 MHz		20 MHz	
	Channel	Frequency (MHz)	Channel	Frequency (MHz)
Low CH	43665	3607.5	43690	3610
Middle CH	44090	3650	44090	3650
High CH	44515	3692.5	44490	3690

LTE Band 48				
Channel Bandwidth	5 MHz		10 MHz	
	Channel	Frequency (MHz)	Channel	Frequency (MHz)
Low CH	55265	3552.5	55290	3555
Middle CH	55990	3625	55990	3625
High CH	56715	3697.5	56690	3695
Channel Bandwidth	15 MHz		20 MHz	
	Channel	Frequency (MHz)	Channel	Frequency (MHz)
Low CH	55315	3557.5	55340	3560
Middle CH	55990	3625	55990	3625
High CH	56665	3692.5	56640	3690

Note: Regards to the frequency band operation: the lowest, middle and highest frequency of channel were selected to perform the test, then shown on this report.

LTE Band 66						
Channel Bandwidth	1.4 MHz		3 MHz		5 MHz	
	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
Low CH	131979	1710.7	131987	1711.5	131997	1712.5
Middle CH	132322	1745.0	132322	1745.0	132322	1745.0
High CH	132665	1779.3	132657	1778.5	132647	1777.5
Channel Bandwidth	10 MHz		15 MHz		20 MHz	
	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
Low CH	132022	1715.0	132047	1717.5	132072	1720.0
Middle CH	132322	1745.0	132322	1745.0	132322	1745.0
High CH	132622	1775.0	132597	1772.5	132572	1770.0

LTE Band 71				
Channel Bandwidth	5 MHz		10 MHz	
	Channel	Frequency (MHz)	Channel	Frequency (MHz)
Low CH	133147	665.5	133172	668
Middle CH	133297	680.5	133297	680.5
High CH	133447	695.5	133422	693
Channel Bandwidth	15 MHz		20 MHz	
	Channel	Frequency (MHz)	Channel	Frequency (MHz)
Low CH	133197	670.5	133222	673
Middle CH	133297	680.5	133322	683
High CH	133397	690.5	133372	688

Note: Regards to the frequency band operation: the lowest, middle and highest frequency of channel were selected to perform the test, then shown on this report.

During all testing, EUT is in link mode with base station emulator at maximum power level. The spurious emission measurements were carried out in semi-anechoic chamber with 3-meter test range, and EUT is rotated on three test planes to find out the worst emission.

Frequency range investigated for radiated emission: 9 kHz to 10th Harmonic

Band	Channel Bandwidth	Modulation	RB Configuration	
			Size	Offset
LTE Band 2	1.4 MHz	QPSK	1	0
		16QAM	1	0
		64QAM	1	0
	3 MHz	QPSK	1	0
		16QAM	1	0
		64QAM	1	0
	5 MHz	QPSK	1	0
		16QAM	1	0
		64QAM	1	0
	10 MHz	QPSK	1	0
		16QAM	1	0
		64QAM	1	0
	15 MHz	QPSK	1	0
		16QAM	1	0
		64QAM	1	0
	20 MHz	QPSK	1	0
		16QAM	1	0
		64QAM	1	0

Band	Channel Bandwidth	Modulation	RB Configuration	
			Size	Offset
LTE Band 4	1.4 MHz	QPSK	1	0
		16QAM	1	2
		64QAM	1	2
	3 MHz	QPSK	1	0
		16QAM	1	14
		64QAM	1	7
	5 MHz	QPSK	1	0
		16QAM	1	24
		64QAM	1	12
	10 MHz	QPSK	1	0
		16QAM	1	0
		64QAM	1	49
	15 MHz	QPSK	1	0
		16QAM	1	74
		64QAM	1	37
	20 MHz	QPSK	1	0
		16QAM	1	99
		64QAM	1	0
LTE Band 5	1.4 MHz	QPSK	1	0
		16QAM	1	0
		64QAM	1	0
	3 MHz	QPSK	1	0
		16QAM	1	0
		64QAM	1	0
	5 MHz	QPSK	1	0
		16QAM	1	0
		64QAM	1	0
	10 MHz	QPSK	1	0
		16QAM	1	0
		64QAM	1	0

Band	Channel Bandwidth	Modulation	RB Configuration	
			Size	Offset
LTE Band 7	5 MHz	QPSK	1	0
		16QAM	1	0
		64QAM	1	12
	10 MHz	QPSK	1	0
		16QAM	1	0
		64QAM	1	0
	15 MHz	QPSK	1	0
		16QAM	1	0
		64QAM	1	0
	20 MHz	QPSK	1	0
		16QAM	1	0
		64QAM	1	0
LTE Band 12	1.4 MHz	QPSK	1	0
		16QAM	1	0
		64QAM	1	0
	3 MHz	QPSK	1	0
		16QAM	1	0
		64QAM	1	7
	5 MHz	QPSK	1	0
		16QAM	1	0
		64QAM	1	12
	10 MHz	QPSK	1	0
		16QAM	1	0
		64QAM	1	0
LTE Band 13	5 MHz	QPSK	1	0
		16QAM	1	0
		64QAM	1	0
	10 MHz	QPSK	1	0
		16QAM	1	0
		64QAM	1	0

Band	Channel Bandwidth	Modulation	RB Configuration	
			Size	Offset
LTE Band 14	5 MHz	QPSK	1	0
		16QAM	1	0
		64QAM	1	0
	10 MHz	QPSK	1	0
		16QAM	1	0
		64QAM	1	0
LTE Band 25	1.4 MHz	QPSK	1	0
		16QAM	1	0
		64QAM	1	2
	3 MHz	QPSK	1	0
		16QAM	1	0
		64QAM	1	7
	5 MHz	QPSK	1	0
		16QAM	1	0
		64QAM	1	12
	10 MHz	QPSK	1	0
		16QAM	1	0
		64QAM	1	24
	15 MHz	QPSK	1	0
		16QAM	1	0
		64QAM	1	37
	20 MHz	QPSK	1	0
		16QAM	1	0
		64QAM	1	0

Band	Channel Bandwidth	Modulation	RB Configuration	
			Size	Offset
LTE Band 26 814~824MHz	1.4 MHz	QPSK	1	0
		16QAM	1	0
		64QAM	1	0
	3 MHz	QPSK	1	0
		16QAM	1	0
		64QAM	1	0
	5 MHz	QPSK	1	0
		16QAM	1	0
		64QAM	1	0
	10 MHz	QPSK	1	0
		16QAM	1	0
		64QAM	1	0
LTE Band 26 824~849MHz	1.4 MHz	QPSK	1	0
		16QAM	1	0
		64QAM	1	0
	3 MHz	QPSK	1	0
		16QAM	1	0
		64QAM	1	0
	5 MHz	QPSK	1	0
		16QAM	1	0
		64QAM	1	12
	10 MHz	QPSK	1	0
		16QAM	1	0
		64QAM	1	49
	15 MHz	QPSK	1	0
		16QAM	1	0
		64QAM	1	0
LTE Band 30	5 MHz	QPSK	1	0
		16QAM	1	0
		64QAM	1	24
	10 MHz	QPSK	1	0
		16QAM	1	24
		64QAM	1	24

Band	Channel Bandwidth	Modulation	RB Configuration	
			Size	Offset
LTE Band 38	5 MHz	QPSK	1	0
		16QAM	1	12
		64QAM	1	24
	10 MHz	QPSK	1	0
		16QAM	1	0
		64QAM	1	24
	15 MHz	QPSK	1	0
		16QAM	1	0
		64QAM	1	37
	20 MHz	QPSK	1	0
		16QAM	1	0
		64QAM	1	0
LTE Band 40 2305~2315MHz	5 MHz	QPSK	1	0
		16QAM	1	0
		64QAM	1	24
	10 MHz	QPSK	1	0
		16QAM	1	0
		64QAM	1	24
LTE Band 40 2350~2360MHz	5 MHz	QPSK	1	0
		16QAM	1	0
		64QAM	1	0
	10 MHz	QPSK	1	0
		16QAM	1	0
		64QAM	1	0

Band	Channel Bandwidth	Modulation	RB Configuration	
			Size	Offset
LTE Band 41	5 MHz	QPSK	1	0
		16QAM	1	24
		64QAM	1	0
	10 MHz	QPSK	1	0
		16QAM	1	0
		64QAM	1	49
	15 MHz	QPSK	1	0
		16QAM	1	0
		64QAM	1	0
	20 MHz	QPSK	1	0
		16QAM	1	0
		64QAM	1	99
LTE Band 42 3450~3550MHz	5 MHz	QPSK	1	0
		16QAM	1	0
		64QAM	1	0
	10 MHz	QPSK	1	0
		16QAM	1	0
		64QAM	1	0
	15 MHz	QPSK	1	0
		16QAM	1	0
		64QAM	1	0
	20 MHz	QPSK	1	0
		16QAM	1	0
		64QAM	1	0

Band	Channel Bandwidth	Modulation	RB Configuration	
			Size	Offset
LTE Band 42 3550~3600MHz	5 MHz	QPSK	1	0
		16QAM	1	0
		64QAM	1	0
	10 MHz	QPSK	1	0
		16QAM	1	0
		64QAM	1	0
	15 MHz	QPSK	1	0
		16QAM	1	0
		64QAM	1	0
	20 MHz	QPSK	1	0
		16QAM	1	0
		64QAM	1	0
LTE Band 43 3600~3700MHz	5 MHz	QPSK	1	0
		16QAM	1	0
		64QAM	1	0
	10 MHz	QPSK	1	0
		16QAM	1	0
		64QAM	1	0
	15 MHz	QPSK	1	0
		16QAM	1	0
		64QAM	1	0
	20 MHz	QPSK	1	0
		16QAM	1	0
		64QAM	1	0

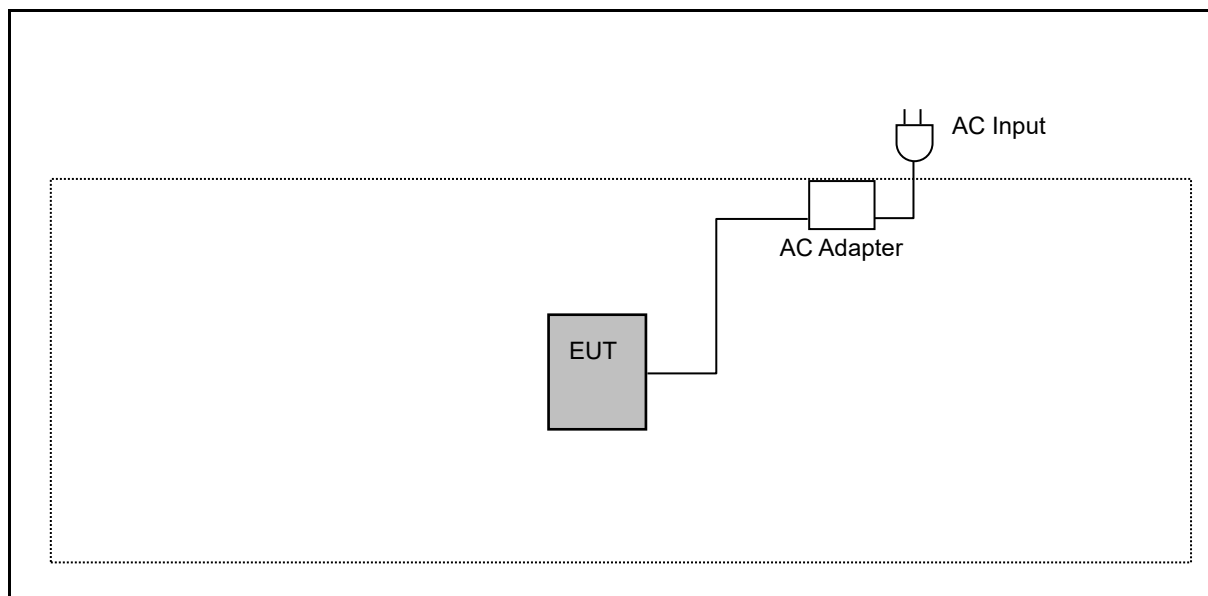
Band	Channel Bandwidth	Modulation	RB Configuration	
			Size	Offset
LTE Band 48	5 MHz	QPSK	1	0
		16QAM	1	0
		64QAM	1	0
	10 MHz	QPSK	1	0
		16QAM	1	0
		64QAM	1	0
	15 MHz	QPSK	1	0
		16QAM	1	0
		64QAM	1	0
	20 MHz	QPSK	1	0
		16QAM	1	0
		64QAM	1	0
LTE Band 66	1.4 MHz	QPSK	1	0
		16QAM	1	0
		64QAM	1	0
	3 MHz	QPSK	1	0
		16QAM	1	0
		64QAM	1	0
	5 MHz	QPSK	1	0
		16QAM	1	0
		64QAM	1	0
	10 MHz	QPSK	1	0
		16QAM	1	0
		64QAM	1	0
	15 MHz	QPSK	1	0
		16QAM	1	0
		64QAM	1	0
	20 MHz	QPSK	1	0
		16QAM	1	0
		64QAM	1	0

Band	Channel Bandwidth	Modulation	RB Configuration	
			Size	Offset
LTE Band 71	5 MHz	QPSK	1	0
		16QAM	1	0
		64QAM	1	0
	10 MHz	QPSK	1	0
		16QAM	1	0
		64QAM	1	0
	15 MHz	QPSK	1	0
		16QAM	1	0
		64QAM	1	0
	20 MHz	QPSK	1	0
		16QAM	1	0
		64QAM	1	0

2.2. EUT Test Step

1	Setup the EUT shown on "Configuration of Test System Details".
2	Turn on the power of all equipment.
3	EUT run test program test.

2.3. Configuration of Test System Details



2.4. Test Instruments

For Conducted

Test Period: Aug. 02, 2023

Testing Engineer: Eric Ou Yang,

Test Site		RF02-BD				
Use	Equipment	Manufacturer	Model Number	Serial Number	Cal. Date	Cal. Period
☒	Divider	Warison	WDIV-2I0.5-26.5S20	WR222AM2B1	Mar. 10, 2023	1 year
☐	Divider	Warison	WDIV-2I0.5-26.5S20	WR222AM2B2	Nov. 07, 2022	1 year
☐	Spectrum Analyzer (3 Hz~13.2 GHz)	Agilent	E4445A	MY45300744	Oct. 25, 2022	1 year
☒	Spectrum Analyzer (2 Hz~50 GHz)	Agilent	N9030B	MY57143537	Apr. 18, 2023	1 year
☒	Universal Radio Communication Tester	R&S	CMU200	112387	Feb. 24, 2023	1 year
☒	Temperature & Humidity Chamber	TAICHY	MHU-225LA	980729	Mar. 29, 2023	1 year
☒	Power Supply	KEITHLEY	2303	4045290	Jan. 06, 2023	1 year

Note: N.C.R. = No Calibration Request.

For Radiated Emissions

Test Period: Oct. 16, 2023

Testing Engineer: Kerry Xu, Marc Yeh

Test Site		96603-BD				
Radiation test sites		Semi Anechoic Room				
Use	Equipment	Manufacturer	Model Number	Serial Number	Cal. Date	Cal. Period
☒	Spectrum Analyzer (10 Hz~44 GHz)	Keysight	N9020B	MY60112363	Jan. 13, 2023	1 year
☒	Amplifier (100 kHz~1.3 GHz)	Agilent	8447D	2944A11119	Jan. 07, 2023	1 year
☒	Broadband Amplifier (1 GHz~26.5 GHz)	Titan	T0912E01263025 A1F	002	Jul. 24, 2023	1 year
☒	Preamplifier (26.5 GHz~40 GHz)	EMCI	EMC2654045	980028	Sep. 01, 2023	1 year
☒	Loop Antenna (9 kHz~30 MHz)	COM-POWER CORPORATION	AL-130	121014	Mar. 23, 2023	1 year
☒	Trilog Broadband Antenna (30 kHz~1 GHz)	Schwarzbeck Mess-Elektronik	VULB9168	01146	Jun. 26, 2023	1 year
☒	Broadband Horn Antenna (1 GHz~18 GHz)	Schwarzbeck Mess-Elektronik	9120D	02207	Jul. 07, 2023	1 year
☒	Broadband Horn Antenna (18 GHz~40 GHz)	Schwarzbeck Mess-Elektronik	9170	9170-320	Jul. 21, 2023	1 year
☒	Horn Antenna (18 GHz~40 GHz)	ETS	3116	00086467	Dec. 05, 2022	1 year
☒	Coaxial Cable	Titan	T0710AT327A10A 100	J11005	Aug. 10, 2023	1 year
☒	Coaxial Cable	Titan	T0710AT327A10A 900	J11004	Aug. 10, 2023	1 year
☒	Coaxial Cable	Titan	CFD400NL-LW	001	Aug. 10, 2023	1 year
☒	Universal Radio Communication Tester	R&S	CMU200	112387	Feb. 24, 2023	1 year
☒	Software	EZ EMC	1.1.4.4	N/A	N.C.R.	---

Note: N.C.R. = No Calibration Request.

For Conducted
 Test Period: Aug. 03, 2023
 Testing Engineer: Eric Ou Yang, Nat Wu

Test Site		RF02-BD				
Use	Equipment	Manufacturer	Model Number	Serial Number	Cal. Date	Cal. Period
☒	Divider	Warison	WDIV-210.5-26.5S20	WR222AM2B1	Mar. 10, 2023	1 year
☐	Divider	Warison	WDIV-210.5-26.5S20	WR222AM2B2	Nov. 07, 2022	1 year
☐	Spectrum Analyzer (3 Hz~13.2 GHz)	Agilent	E4445A	MY45300744	Oct. 25, 2022	1 year
☒	Spectrum Analyzer (2 Hz~50 GHz)	Agilent	N9030B	MY57143537	Apr. 18, 2023	1 year
☒	Universal Radio Communication Tester	R&S	CMU200	112387	Feb. 24, 2023	1 year
☒	Universal Radio Communication Tester	Agilent	E5515C	MY47511156	Sep. 01, 2022	1 year
☒	Temperature & Humidity Chamber	TAICHY	MHU-225LA	980729	Mar. 29, 2023	1 year
☒	Power Supply	KEITHLEY	2303	4045290	Jan. 06, 2023	1 year

Note: N.C.R. = No Calibration Request.

For Radiated Emissions

Test Period: Oct. 17, 2023

Testing Engineer: Kerry Xu, Marc Yeh

Test Site		96603-BD				
Radiation test sites		Semi Anechoic Room				
Use	Equipment	Manufacturer	Model Number	Serial Number	Cal. Date	Cal. Period
☒	Spectrum Analyzer (10 Hz~44 GHz)	Keysight	N9020B	MY60112363	Jan. 13, 2023	1 year
☒	Amplifier (100 kHz~1.3 GHz)	Agilent	8447D	2944A11119	Jan. 07, 2023	1 year
☒	Broadband Amplifier (1 GHz~26.5 GHz)	Titan	T0912E01263025 A1F	002	Jul. 24, 2023	1 year
☒	Preamplifier (26.5 GHz~40 GHz)	EMCI	EMC2654045	980028	Sep. 01, 2023	1 year
☒	Loop Antenna (9 kHz~30 MHz)	COM-POWER CORPORATION	AL-130	121014	Mar. 23, 2023	1 year
☒	Trilog Broadband Antenna (30 kHz~1 GHz)	Schwarzbeck Mess-Elektronik	VULB9168	01146	Jun. 26, 2023	1 year
☒	Broadband Horn Antenna (1 GHz~18 GHz)	Schwarzbeck Mess-Elektronik	9120D	02207	Jul. 07, 2023	1 year
☒	Broadband Horn Antenna (18 GHz~40 GHz)	Schwarzbeck Mess-Elektronik	9170	9170-320	Jul. 21, 2023	1 year
☒	Horn Antenna (18 GHz~40 GHz)	ETS	3116	00086467	Dec. 05, 2022	1 year
☒	Coaxial Cable	Titan	T0710AT327A10A 100	J11005	Aug. 10, 2023	1 year
☒	Coaxial Cable	Titan	T0710AT327A10A 900	J11004	Aug. 10, 2023	1 year
☒	Coaxial Cable	Titan	CFD400NL-LW	001	Aug. 10, 2023	1 year
☒	Universal Radio Communication Tester	R&S	CMU200	112387	Feb. 24, 2023	1 year
☒	Universal Radio Communication Tester	Agilent	E5515C	MY47511156	Sep. 01, 2023	1 year
☒	Software	EZ EMC	1.1.4.4	N/A	N.C.R.	---

Note: N.C.R. = No Calibration Request.

For Conducted
 Test Period: Aug. 04 ~ Oct. 22, 2023
 Testing Engineer: Eric Ou Yang,

Test Site		RF02-BD				
Use	Equipment	Manufacturer	Model Number	Serial Number	Cal. Date	Cal. Period
☒	Divider	Warison	WDIV-210.5-26.5S20	WR222AM2B2	Aug. 24, 2023	1 year
☒	Spectrum Analyzer (2 Hz~50 GHz)	Agilent	N9030B	MY57143537	Apr. 18, 2023	1 year
☒	Radio Communication Analyzer	Anritsu	MT8821C	6201300618	Jun. 07, 2023	1 year
☒	Temperature & Humidity Chamber	TAICHY	MHU-225LA	980729	Mar. 29, 2023	1 year
☒	Power Supply	KEITHLEY	2303	4045290	Jan. 06, 2023	1 year

Note: N.C.R. = No Calibration Request.

For Radiated Emissions

Test Period: Oct. 18 ~ Oct. 22, 2023

Testing Engineer: Kerry Xu, Marc Yeh

Test Site		96603-BD				
Radiation test sites		Semi Anechoic Room				
Use	Equipment	Manufacturer	Model Number	Serial Number	Cal. Date	Cal. Period
☒	Spectrum Analyzer (10 Hz~44 GHz)	Keysight	N9020B	MY60112363	Jan. 13, 2023	1 year
☒	Amplifier (100 kHz~1.3 GHz)	Agilent	8447D	2944A11119	Jan. 07, 2023	1 year
☒	Broadband Amplifier (1 GHz~26.5 GHz)	Titan	T0912E01263025 A1F	002	Jul. 24, 2023	1 year
☒	Preamplifier (26.5 GHz~40 GHz)	EMCI	EMC2654045	980028	Sep. 01, 2023	1 year
☒	Loop Antenna (9 kHz~30 MHz)	COM-POWER CORPORATION	AL-130	121014	Mar. 23, 2023	1 year
☒	Trilog Broadband Antenna (30 kHz~1 GHz)	Schwarzbeck Mess-Elektronik	VULB9168	01146	Jun. 26, 2023	1 year
☒	Broadband Horn Antenna (1 GHz~18 GHz)	Schwarzbeck Mess-Elektronik	9120D	02207	Jul. 07, 2023	1 year
☒	Broadband Horn Antenna (18 GHz~40 GHz)	Schwarzbeck Mess-Elektronik	9170	9170-320	Jul. 21, 2023	1 year
☒	Horn Antenna (18 GHz~40 GHz)	ETS	3116	00086467	Dec. 05, 2022	1 year
☒	Coaxial Cable	Titan	T0710AT327A10A 100	J11005	Aug. 10, 2023	1 year
☒	Coaxial Cable	Titan	T0710AT327A10A 900	J11004	Aug. 10, 2023	1 year
☒	Coaxial Cable	Titan	CFD400NL-LW	001	Aug. 10, 2023	1 year
☒	Radio Communication Analyzer	Anritsu	MT8821C	6201300618	Jun. 07, 2023	1 year
☒	Software	EZ EMC	1.1.4.4	N/A	N.C.R.	---

Note: N.C.R. = No Calibration Request.

3 Measurement Procedure

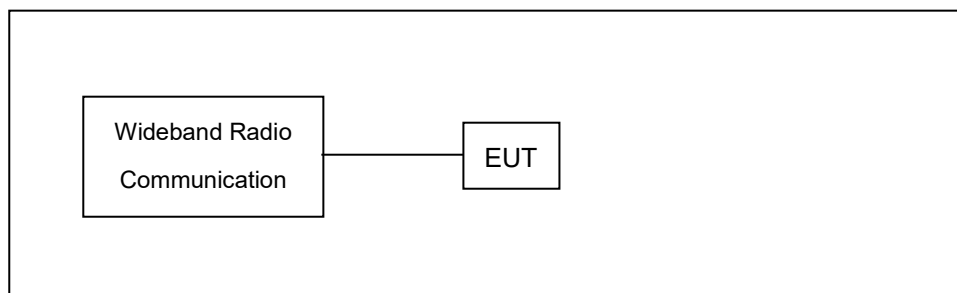
3.1. Conducted Output Average Power Test

■ Limit

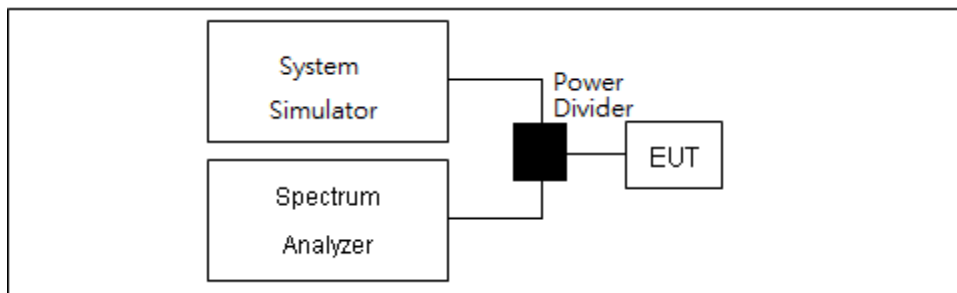
N/A

■ Test Setup

(For dBm/Channel BW)



(For dBm/10 MHz)



■ Test Procedure

(For dBm/Channel BW)

- a. The EUT was set up for the maximum power with simulator.
- b. Set the EUT to transmit under low, middle and high channel and record the power level shown on simulator.

(For dBm/10 MHz)

- a. The EUT was set up for the maximum power with simulator.
- b. Set instrument center frequency to OBW center frequency.
- c. Set span to at least 1.5 times the OBW.
- d. Set the RBW to the specified reference bandwidth (often 10 MHz).
- e. Set VBW $\geq 3 \times$ RBW.
- f. Detector = RMS (power averaging).
- g. Employ trace averaging (RMS) mode over a minimum of 100 traces.
- h. Ensure that the number of measurement points in the sweep $\geq 2 \times$ span/RBW.
- i. Spectrum is configured to trigger a sweep at the beginning of each transmission burst.
- j. Use the peak marker function to determine the maximum amplitude level within the reference bandwidth (PSD).

3.2. Effective Radiated Power / Equivalent Isotropic Radiated Power Test

■ Limit

For FCC Part 27: The EIRP of mobile transmitters and auxiliary test transmitters must not exceed 1 Watts.

For FCC Part 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.

For FCC Part 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

For FCC Part 27.50(c)(10): Portable stations in the 698-746 MHz band are limited to 3 watts ERP.

For FCC Part 27.50(h)(2): Mobile stations are limited to 2.0 watts EIRP.

For FCC Part 22.913(a)(5): The ERP of mobile transmitters and auxiliary test transmitters must not exceed 7 Watts.

For FCC Part 24.232(c): The E.I.R.P. of Mobile and portable stations test transmitters must not exceed 2 Watts.

For FCC Part 27.50(h)(2): Mobile stations in BRS and EBS band are limited to 2 watts EIRP.

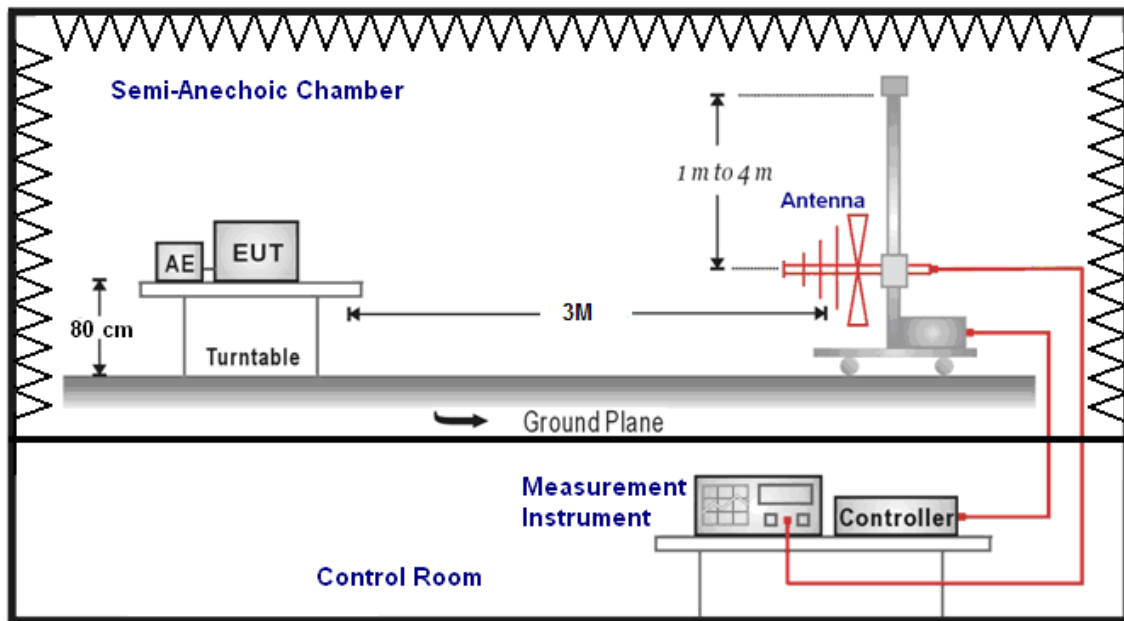
For FCC Part 90.542(7): Portable stations in the 758-768 MHz band and the 788-798 MHz are limited to 3 watts ERP

For FCC Part 90.635(b): ERP maximum power is 100 watts for mobile stations.

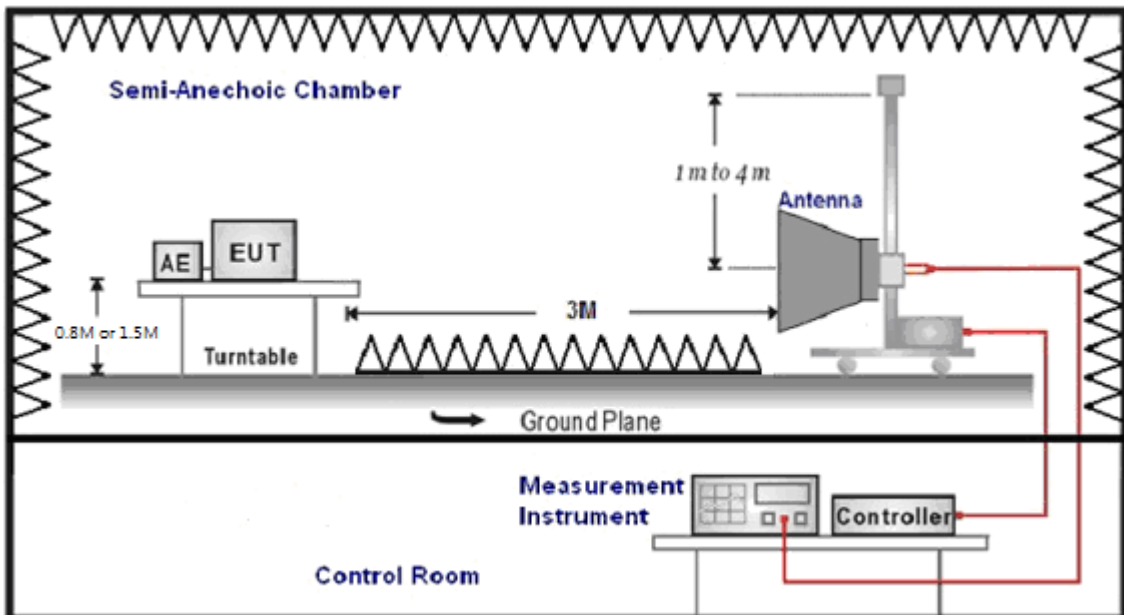
Device		Maximum EIRP (dBm/10 MHz)	Maximum PSD (EIRP) (dBm/MHz)
■	End User Device	23	N/A
□	Category A CBSD	30	20
□	Category B CBSD	47	37

■ Test Setup

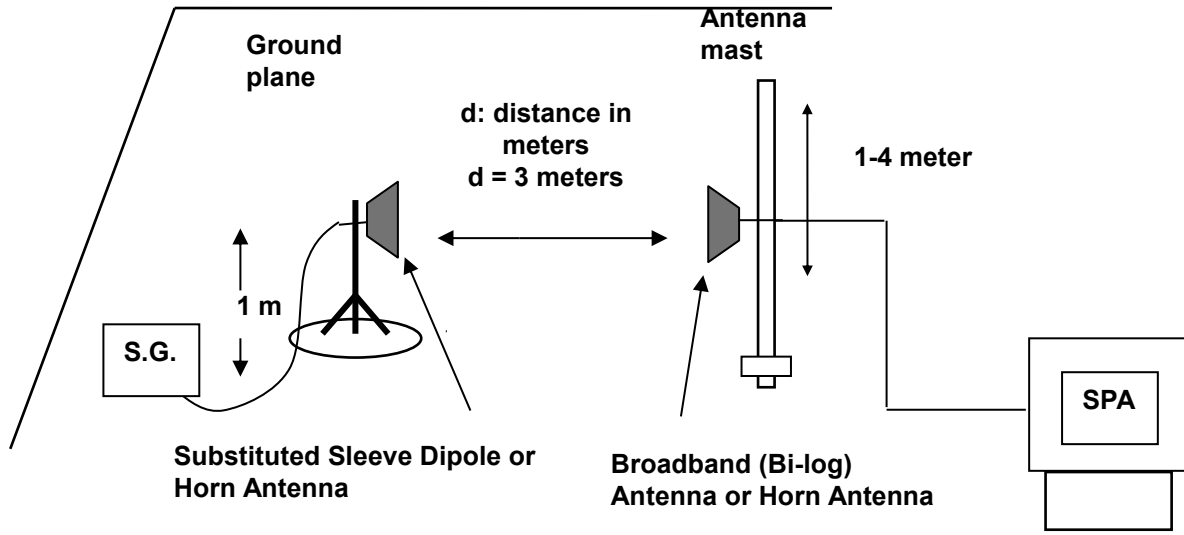
Below 1 GHz



Above 1 GHz



For Substituted Method Test Set-UP



■ Test Procedure

- The EUT was set up for the maximum power with wwan link data modulation. The power was measured with Spectrum Analyzer. All measurements were done at 3 channels (low, middle and high operational frequency range).
- E.I.R.P power measurement. In the semi-anechoic chamber, EUT placed on the 0.8 m (1.5 m for above 1 GHz) height of Turn Table, rotated the table around 360 degrees to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1 m to 4 m to find the maximum polar radiated power. The "Read Value" is the spectrum reading the maximum power value.
- The substitution antenna (Note:1 & 2) is substituted for EUT at the same position and signals generator export the CW signal to the substitution antenna via a TX cable. Rotated the Turn Table and moved receiving antenna to find the maximum radiation power. Adjust output power level of S.G to get a Value of spectrum reading equal to "Read Value" of step a. Record the power level of S.G.
- $E.I.R.P. = \text{Output power level of S.G} - \text{TX cable loss} + \text{Antenna gain of substitution horn}$
- $E.R.P. = E.I.R.P. - 2.15 \text{ dB}$

Note: 1. Below 1 GHz Substituted Method Test : Sleeve dipole antenna to Bi-Log Antenna

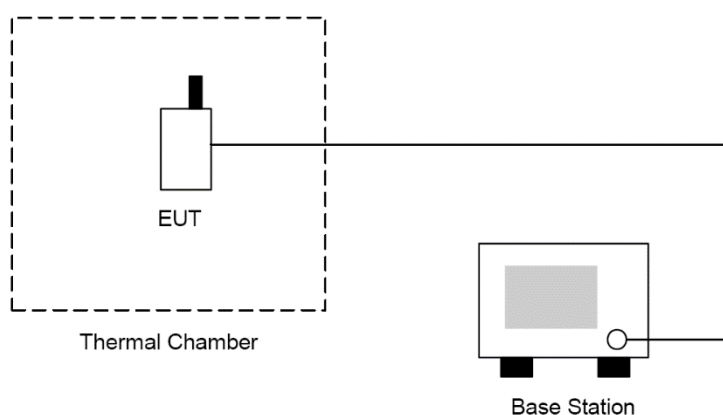
2. Above 1 GHz Substituted Method Test : Horn antenna to Horn Antenna

3.3. Frequency Stability Test

■ Limit

According to the FCC rule shall be tested the frequency stability. The rule is defined that" The frequency stability shall be sufficient to ensure that the fundamental emissions stay within the authorized bands of operation. The test extreme voltage is according to the 2.1055(d)(1) Vary primary supply voltage from 85 to 115 percent of the nominal value for other than hand carried battery equipment and the extreme temperature rule is comply with the 2.1055(a)(1) -30 °C ~ 50 °C.

■ Setup



■ Test Procedure

1. The EUT and test equipment were set up as shown on the following section.
2. With all power removed, the temperature was decreased to -30 °C and permitted to stabilize for three hours. Power was applied and the maximum change in frequency was note within one minute.
3. With power OFF, the temperature was raised in 10 °C steps. The sample was permitted to stabilize at each step for at least one-half hour. Power was applied and the maximum frequency change was noted within one minute.
4. The EUT was placed in a temperature chamber at 25 ± 5 °C and connected as the following section.
5. The power supply voltage to the EUT was varied from BEP to 115 % of the nominal value measured at the input to the EUT.
6. The temperature tests were performed for the worst case.
7. Test data was recorded.

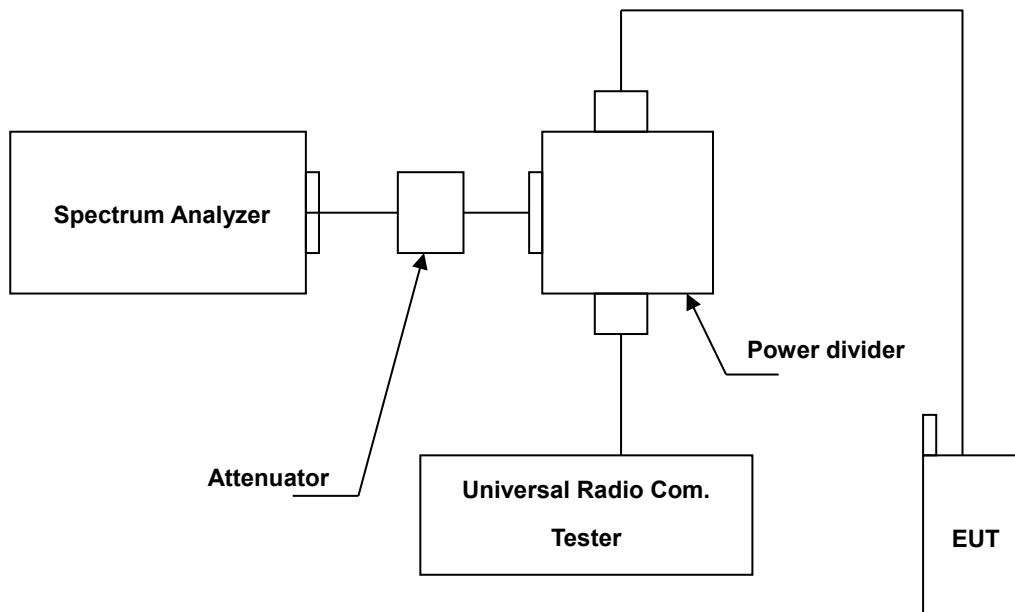
3.4. Emission Bandwidth & Occupied Bandwidth Test

■ Limit

The width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5 % of the total mean power of a given emission.

The emission bandwidth is defined as the width of the signal between two points, located at the 2 sides of the carrier frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

■ Setup



■ Test Procedure

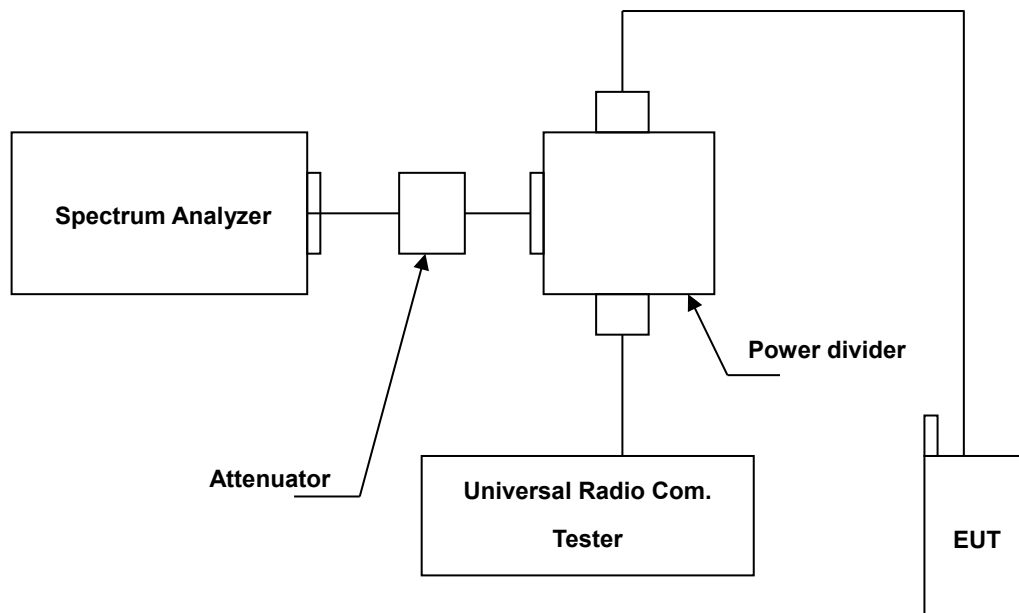
- The EUT makes a phone call to the communication simulator. The power was measured with Spectrum Analyzer. All measurements were done at 3 channels. (low, middle and high operational frequency range.)
- The conducted occupied bandwidth used the power splitter via EUT RF power connector between simulation base station and spectrum analyzer.
- The communication simulator station system controlled a EUT to export maximum output power under transmission mode and specific channel frequency. Use OBW measurement function of Spectrum analyzer to measure 99 % occupied bandwidth.

3.5. Peak to Average Ratio Test

■ Limit

In measuring transmissions in this band using an average power technique, the peak to-average ratio (PAR) of the transmission may not exceed 13 dB.

■ Setup



■ Test Procedure

- Set resolution/measurement bandwidth signal's occupied bandwidth;
- Set the number of counts to a value that stabilizes the measured CCDF curve;
- Record the maximum PAPR level associated with a probability of 0.1 %.

3.6. Band Edge Test

■ Limit

The Band Edge Limit:

§22.917(a), §24.238(a)

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.

§27.53(c)(2)

On any frequency outside the 777-787 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.

§27.53(g)

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.

§27.53(m)

For mobile digital stations, the attenuation factor shall be not less than $43 + 10 \log(p)$ dB at the channel edge and $55 + 10 \log(P)$ dB at 5.5 megahertz from the channel edges.

§27.53(m)

For FCC Part 90.635(b): ERP maximum power is 100 watts for mobile stations.

For mobile digital stations, the attenuation factor shall be not less than $43 + 10 \log_{10}(P)$ dB at the channel edge and $55 + 10 \log_{10}(P)$ dB at 5.5 megahertz from the channel edges.

§90.543 (e)(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.

§90.543 (e)(3)

On all frequencies between 775-788 MHz, above 805 MHz, and below 758 MHz, by at least $43 + 10 \log(P)$ dB.

§90.691

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 $50 + 10 \log_{10}(P[\text{Watts}])$ at Band Edge and for all out-of-band emissions within 37.5 kHz of Block Edge.

LTE Band 13_BW=5 M				
Frequency (MHz)	RBW=10 kHz Measurement (dBm)	RBW=6.25 kHz Measurement (dBm)	Limit -35 dBm/6.25 kHz	Result
763 ~ 775	-39.670	-41.711	-35	PASS
793 ~ 805	-51.865	-53.906	-35	PASS

LTE Band 13_BW=10 M				
Frequency (MHz)	RBW=10 kHz Measurement (dBm)	RBW=6.25 kHz Measurement (dBm)	Limit -35 dBm/6.25 kHz	Result
763 ~775	-42.106	-44.147	-35	PASS
793 ~805	-41.867	-43.908	-35	PASS

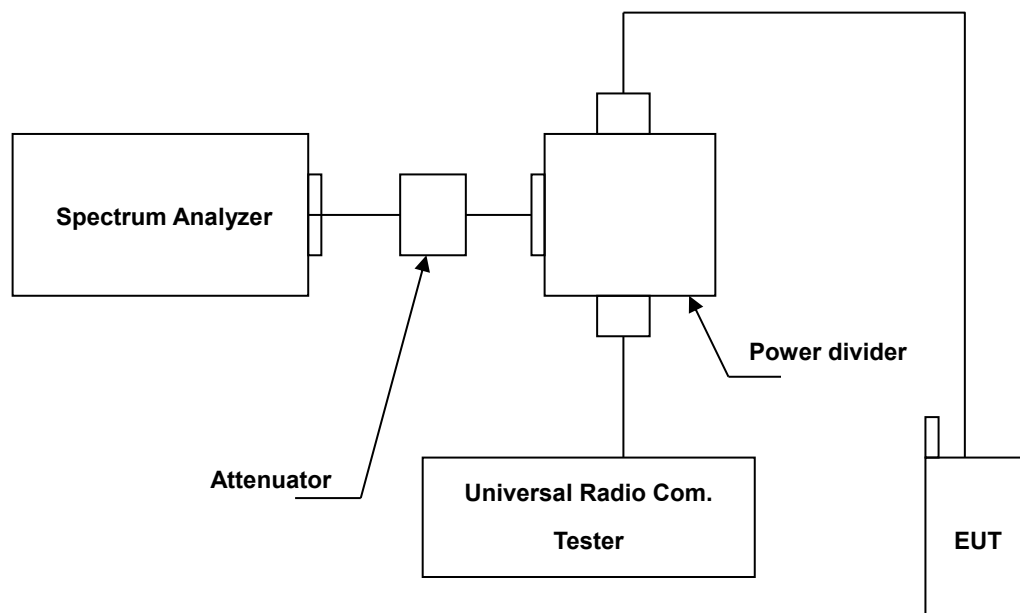
LTE Band 14_BW=5 M				
Frequency (MHz)	RBW=10 kHz Measurement (dBm)	RBW=6.25 kHz Measurement (dBm)	Limit -35 dBm/6.25 kHz	Result
769 ~ 775	-39.670	-41.711	-35	PASS
799 ~ 805	-51.865	-53.906	-35	PASS

LTE Band 14_BW=10 M				
Frequency (MHz)	RBW=10 kHz Measurement (dBm)	RBW=6.25 kHz Measurement (dBm)	Limit -35 dBm/6.25 kHz	Result
769 ~ 775	-42.106	-44.147	-35	PASS
799 ~ 805	-41.867	-43.908	-35	PASS

Device		Power of emission outside the fundamental	Limit (dBm/MHz)
■	End User Device	Within 0 MHz to B MHz above and below the assigned channel.	-13
		Greater than B MHz above and below the assigned channel.	-25
		The conducted power of emissions below 3540 or above 3710 MHz.	-40
		The conducted power of emissions below 3530 or above 3720 MHz.	
		The Adjacent Channel Leakage Ratio for End User Devices shall be at least 30 dB.	
□	Category A CBSD	Within 0 MHz to 10 MHz above and below the assigned channel.	-13
□	Category B CBSD	Greater than 10 MHz above and below the assigned channel.	-25
		The conducted power of emissions below 3540 or above 3710 MHz.	-40
		The conducted power of emissions below 3530 or above 3720 MHz.	

Note: Where B is the bandwidth in megahertz of the assigned channel or multiple contiguous channels of the End User Device.

■ Setup



■ Test Procedure

- The EUT was set up for the maximum peak power with WWAN link data modulation. The power was measured with Spectrum Analyzer. All measurements were done at 2 channels (low and high operational frequency range.)
- The band edge measurement used the power splitter via EUT RF power connector between simulation base station and spectrum analyzer. This splitter loss and cable loss are the worst loss in the transmitted path track.
- The center frequency of spectrum is the band edge frequency and span is 2 MHz. RB of the resolution bandwidth of at least one percent of the emission bandwidth.
- Record the max trace plot into the test report.

For ACLR:

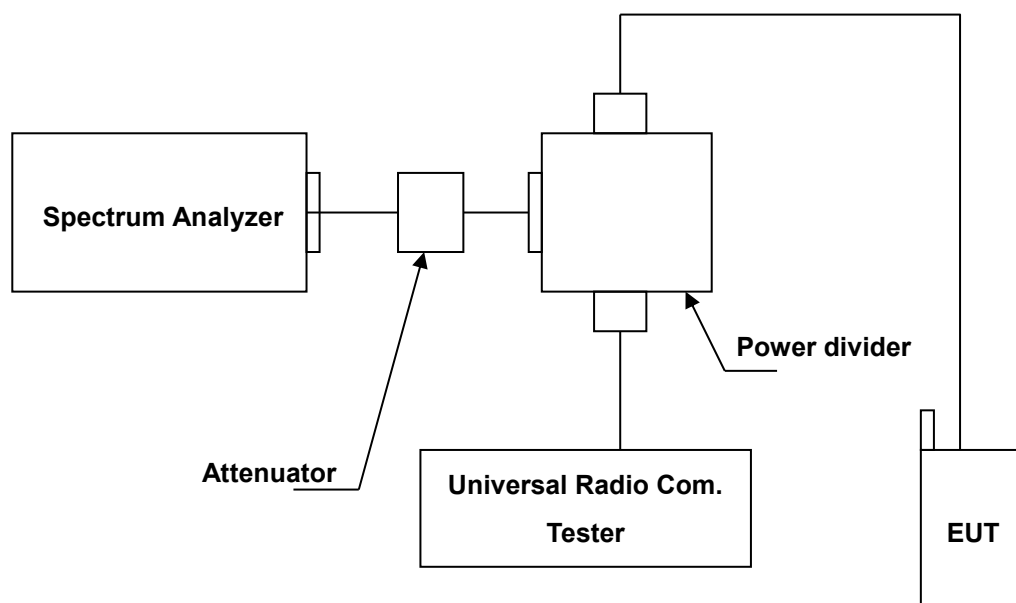
- The option ACLR of spectrum analyzer is used and measures the ACLR ratio by setting equivalent channel bandwidth.
- The measured ACLR ratio shall be at least 30 dB.

3.7. Conducted Spurious Emission Test

■ Limit

The power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) by at least $43 + 10 \log_{10}(P)$ dB. The limit of emission equal to -13 dBm

■ Setup



■ Test Procedure

- The EUT was set up for the maximum peak power with WWAN link data modulation. The power was measured with Spectrum Analyzer. All measurements were done at 3 channels (low, middle and high operational frequency range.).
- The conducted spurious emission used the power splitter via EUT RF power connector between simulation base station and spectrum analyzer.
- When the spectrum scanned from 10 MHz to 10th harmonic. The spectrum set RB=1 MHz, VB=3 MHz.

3.8. Radiated Emission Test

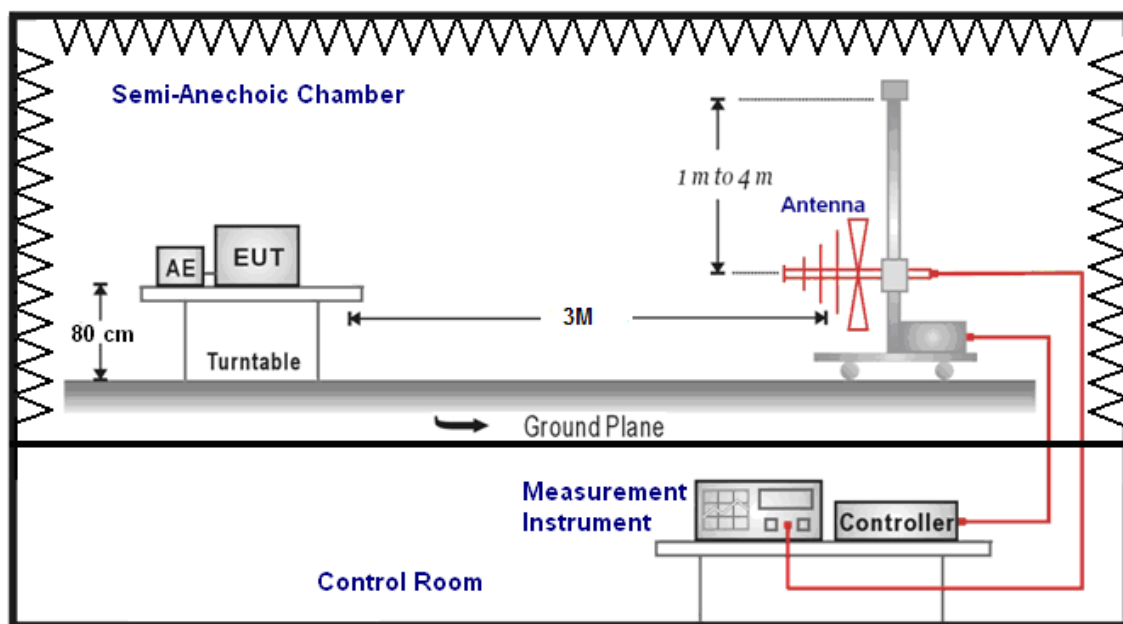
■ Limit

The power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) by at least $43 + 10 \log_{10}(P)$ dB. The limit of emission equal to -13 dBm

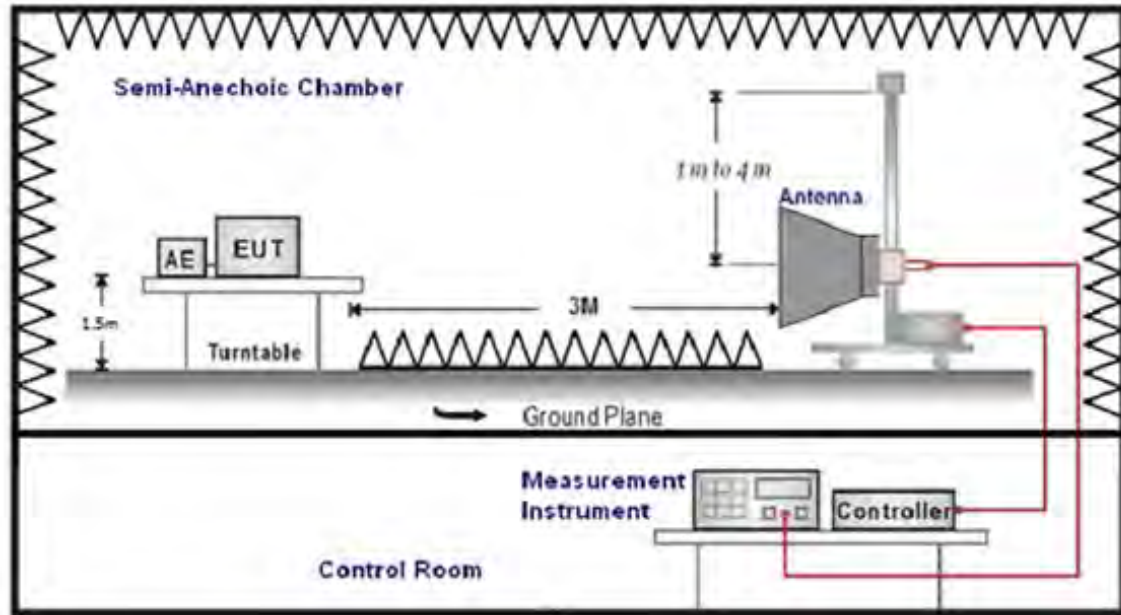
The conducted power of emissions below 3530 MHz or above 3720 MHz shall not exceed -40 dBm/MHz.

■ Setup

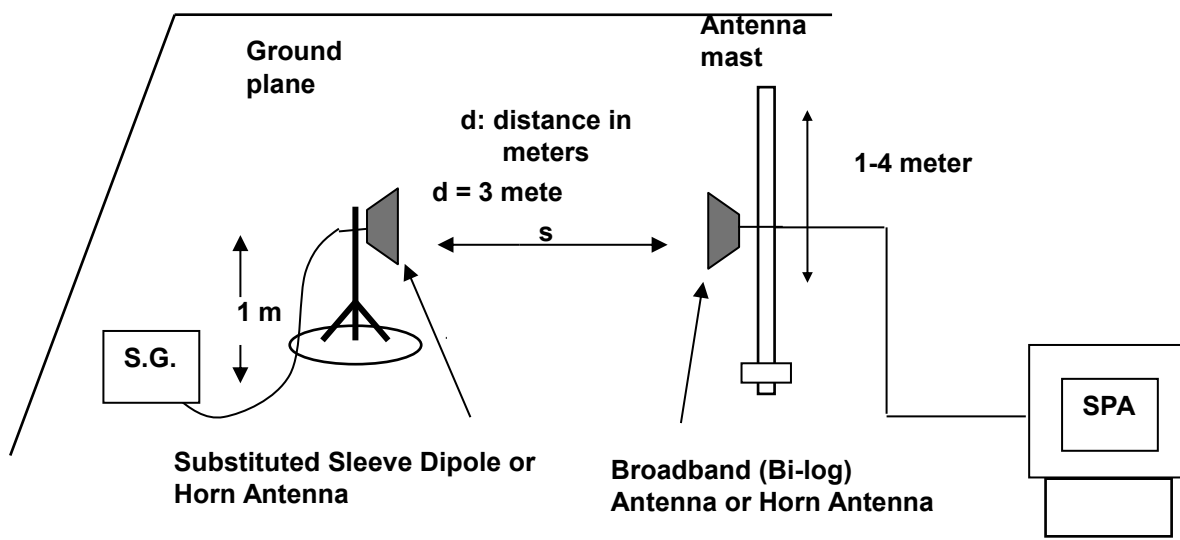
Below 1 GHz



Above 1 GHz



For Substituted Method Test Set-UP



■ **Test Procedure**

- a. The EUT was set up for the maximum power with wwan link data modulation. The power was measured with Spectrum Analyzer. All measurements were done at 3 channels (low, middle and high operational frequency range).
- b. Radiation Emission measurement. In the semi-anechoic chamber, EUT placed on the 0.8 m (1.5 m for above 1 GHz) height of Turn Table, rotated the table around 360 degrees to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1 m to 4 m to find the maximum polar radiated power. The "Read Value" is the spectrum reading the maximum power value.
- c. The substitution antenna (Note:1 & 2) is substituted for EUT at the same position and signals generator export the CW signal to the substitution antenna via a TX cable. Rotated the Turn Table and moved receiving antenna to find the maximum radiation power. Adjust output power level of S.G to get a Value of spectrum reading equal to "Read Value" of step a. Record the power level of S.G.
- d. $E.I.R.P. = \text{Output power level of S.G} - \text{TX cable loss} + \text{Antenna gain of substitution horn}$
- e. $E.R.P. = E.I.R.P. - 2.15 \text{ dB}$
- f. Measurement range 9 kHz - 10 th Harmonic

Note: 1. Below 1 GHz Substituted Method Test : Sleeve dipole antenna to Bi-Log Antenna

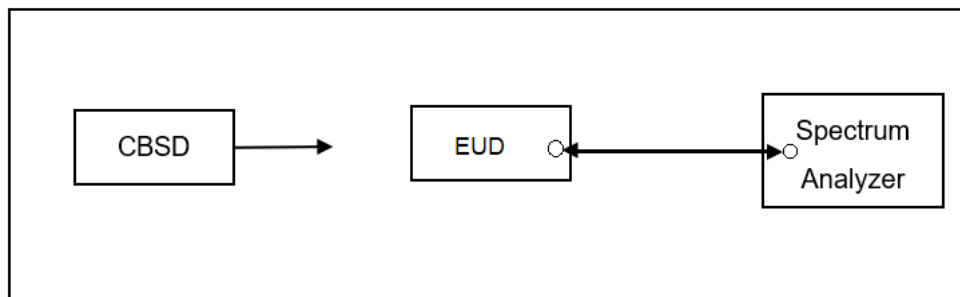
2. Above 1 GHz Substituted Method Test : Horn antenna to Horn Antenn

3.9. End user device additional requirements Test

■ Limit

- (a) End User Devices may operate only if they can positively receive and decode an authorization signal transmitted by a CBSD, including the frequencies and power limits for their operation.
- (1) An End User Device must discontinue operations, change frequencies, or change its operational power level within 10 seconds of receiving instructions from its associated CBSD.

■ Test Setup



Note: CBSD (FCC ID: P27-SCE4255W). LTE

■ Test Procedure

The EUT was connects to a certified CBSD and spectrum analyzer. The following procedure is performed by applying WINNF-TS-0122 CBRS CBSD Test Specification:

1. Setup with low channel and power level 10 dBm/MHz.
Note. Set one of the BW supported by the DUT.
2. Enable AP service from EPC management.
3. Check EUD Tx frequency and power.
4. Disable AP service from EPC management.
5. Check EUD stops transmission within 10 seconds.
6. Setup with high channel and power level 15 dBm/MHz.
Note. Set one of the BW supported by the DUT.
7. Enable AP service from EPC management.
8. Check EUD Tx frequency and power.
9. Disable AP service from EPC management.
10. Check EUD stops transmission within 10 seconds.

4 Test Results

4.1. Effective Radiated Power / Equivalent Isotropic Radiated Power

Band	Modulation	Test Mode	CH		Frequency (MHz)	Source-Time Avg Conducted power (dBm)	Avg burst Conducted power (dBm)	Antenna Gain(dBi)	ERP(dBm)	ERP(W)	tolerance (dBm)	Results	
GSM 850	GMSK	1Down1Up Duty factor 1/8	Lowest	128	824.2	23.09	32.12	-1.2	28.77	0.753	33±2	PASS	
			Middle	190	836.6	23.05	32.08		28.73	0.746		PASS	
			Highest	251	848.8	23.12	32.15		28.80	0.759		PASS	
GPRS 850 Multi Class :33 Max Up:4 Max Down:5 Sum:6		4Down1Up Duty factor 1/8	Lowest	128	824.2	23.00	32.03		28.68	0.738	33±2	PASS	
			Middle	190	836.6	22.98	32.01		28.66	0.735		PASS	
			Highest	251	848.8	23.01	32.04		28.69	0.740		PASS	
		3Down2Up Duty factor 2/8	Lowest	128	824.2	25.89	31.91		28.56	0.718	Can't lower than29.03	PASS	
			Middle	190	836.6	25.87	31.89		28.54	0.714	Can't lower than29.01	PASS	
			Highest	251	848.8	25.90	31.92		28.57	0.719	Can't lower than29.04	PASS	
		2Down3Up Duty factor 3/8	Lowest	128	824.2	27.60	31.86		28.51	0.710	Can't lower than27.23	PASS	
			Middle	190	836.6	27.58	31.84		28.49	0.706	Can't lower than27.21	PASS	
			Highest	251	848.8	27.63	31.89		28.54	0.714	Can't lower than27.24	PASS	
		1Down4Up Duty factor 4/8	Lowest	128	824.2	28.80	31.81		28.46	0.701	Can't lower than26.03	PASS	
			Middle	190	836.6	28.77	31.78		28.43	0.697	Can't lower than26.01	PASS	
			Highest	251	848.8	28.82	31.83		28.48	0.705	Can't lower than26.04	PASS	
EGPRS 850 Multi Class :33 Max Up:4 Max Down:5 Sum:6		8PSK	4Down1Up Duty factor 1/8	Lowest	128	824.2	16.93		25.96	22.61	0.182	27±2	PASS
				Middle	190	836.6	16.97		26.00	22.65	0.184		PASS
				Highest	251	848.8	16.99		26.02	22.67	0.185		PASS
			3Down2Up Duty factor 2/8	Lowest	128	824.2	19.79		25.81	22.46	0.176	Can't lower than22.96	PASS
				Middle	190	836.6	19.86		25.88	22.53	0.179	Can't lower than23	PASS
				Highest	251	848.8	19.85		25.87	22.52	0.179	Can't lower than23.02	PASS
			2Down3Up Duty factor 3/8	Lowest	128	824.2	21.38		25.64	22.29	0.169	Can't lower than21.16	PASS
				Middle	190	836.6	21.51		25.77	22.42	0.175	Can't lower than21.2	PASS
				Highest	251	848.8	21.48		25.74	22.39	0.173	Can't lower than21.22	PASS
			1Down4Up Duty factor 4/8	Lowest	128	824.2	22.48		25.49	22.14	0.164	Can't lower than19.96	PASS
				Middle	190	836.6	22.64		25.65	22.30	0.170	Can't lower than20	PASS
				Highest	251	848.8	22.57		25.58	22.23	0.167	Can't lower than20.02	PASS

Band	Test Mode	Test Mode	CH		Frequency (MHz)	Source-Time Avg Conducted power (dBm)	Avg burst Conducted power (dBm)	Antenna Gain(dBi)	EIRP(dBm)	EIRP(W)	tolerance (dBm)	Results
PCS 1900	GMSK	1Down1Up Duty factor 1/8	Lowest	512	1850.2	20.08	29.11	2.0	31.1	1.291	30±2	PASS
			Middle	661	1880.0	20.82	29.85		31.9	1.531		PASS
			Highest	810	1909.8	20.45	29.48		31.5	1.406		PASS
4Down1Up Duty factor 1/8		Lowest	512	1850.2	20.07	29.10	31.1		1.288	30±2	PASS	
		Middle	661	1880.0	20.26	29.29	31.3		1.346		PASS	
		Highest	810	1909.8	20.06	29.09	31.1		1.285		PASS	
3Down2Up Duty factor 2/8		Lowest	512	1850.2	23.02	29.04	31.0		1.271	Can't lower than26.1	PASS	
		Middle	661	1880.0	23.17	29.19	31.2		1.315	Can't lower than26.29	PASS	
		Highest	810	1909.8	22.94	28.96	31.0		1.247	Can't lower than26.09	PASS	
2Down3Up Duty factor 3/8		Lowest	512	1850.2	24.60	28.86	30.9		1.219	Can't lower than24.3	PASS	
		Middle	661	1880.0	24.78	29.04	31.0		1.271	Can't lower than24.49	PASS	
		Highest	810	1909.8	24.53	28.79	30.8		1.199	Can't lower than24.29	PASS	
1Down4Up Duty factor 4/8		Lowest	512	1850.2	25.65	28.66	30.7		1.164	Can't lower than23.1	PASS	
		Middle	661	1880.0	25.83	28.84	30.8		1.213	Can't lower than23.29	PASS	
		Highest	810	1909.8	25.60	28.61	30.6		1.151	Can't lower than23.09	PASS	
EGPRS 1900 Multi Class :3 3 Max Up:4 Max Down:5 Sum:6	8PSK	4Down1Up Duty factor 1/8	Lowest	512	1850.2	16.22	25.25	27.3	0.531	26±2	PASS	
			Middle	661	1880.0	16.31	25.34	27.3	0.542		PASS	
			Highest	810	1909.8	16.30	25.33	27.3	0.541		PASS	
		3Down2Up Duty factor 2/8	Lowest	512	1850.2	19.15	25.17	27.2	0.521	Can't lower than22.25	PASS	
			Middle	661	1880.0	19.23	25.25	27.3	0.531	Can't lower than22.34	PASS	
			Highest	810	1909.8	19.19	25.21	27.2	0.526	Can't lower than22.33	PASS	
		2Down3Up Duty factor 3/8	Lowest	512	1850.2	20.75	25.01	27.0	0.502	Can't lower than20.45	PASS	
			Middle	661	1880.0	20.86	25.12	27.1	0.515	Can't lower than20.54	PASS	
			Highest	810	1909.8	20.80	25.06	27.1	0.508	Can't lower than20.53	PASS	
		1Down4Up Duty factor 4/8	Lowest	512	1850.2	21.84	24.85	26.9	0.484	Can't lower than19.25	PASS	
			Middle	661	1880.0	21.95	24.96	27.0	0.497	Can't lower than19.34	PASS	
			Highest	810	1909.8	21.90	24.91	26.9	0.491	Can't lower than19.33	PASS	

Band	Modulation	Date Rate or Sub-test	CH		Frequency	Avg Conducted power (dBm)	Antenna Gain(dBi)	EIRP(dBm)	EIRP(W)	tolerance (dBm)	Results		
WCDMA II	RMC12.2K	---	Lowest	9262	1852.4	23.44	2.00	25.44	0.350	24,+1.7/-3.7	PASS		
			Middle	9400	1880.0	23.68		25.68	0.370	24,+1.7/-3.7	PASS		
			Highest	9538	1907.6	23.37		25.37	0.344	24,+1.7/-3.7	PASS		
HSDPA II	QPSK	1	Lowest	9262	1852.4	22.65		24.65	0.292	24,+1.7/-3.7	PASS		
			Middle	9400	1880.0	22.80		24.80	0.302	24,+1.7/-3.7	PASS		
			Highest	9538	1907.6	22.60		24.60	0.288	24,+1.7/-3.7	PASS		
		2	Lowest	9262	1852.4	22.52		24.52	0.283	24,+1.7/-3.7	PASS		
			Middle	9400	1880.0	22.66		24.66	0.292	24,+1.7/-3.7	PASS		
			Highest	9538	1907.6	22.49		24.49	0.281	24,+1.7/-3.7	PASS		
		3	Lowest	9262	1852.4	22.15		24.15	0.260	23.5,+2.2/-3.7	PASS		
			Middle	9400	1880.0	22.31		24.31	0.270	23.5,+2.2/-3.7	PASS		
			Highest	9538	1907.6	22.12		24.12	0.258	23.5,+2.2/-3.7	PASS		
		4	Lowest	9262	1852.4	22.13		24.13	0.259	23.5,+2.2/-3.7	PASS		
			Middle	9400	1880.0	22.29		24.29	0.269	23.5,+2.2/-3.7	PASS		
			Highest	9538	1907.6	22.05		24.05	0.254	23.5,+2.2/-3.7	PASS		
		HSUPA II	QPSK	1	Lowest	9262		1852.4	21.93	23.93	0.247	24,+1.7/-6.7	PASS
					Middle	9400		1880.0	22.07	24.07	0.255	24,+1.7/-6.7	PASS
					Highest	9538		1907.6	21.89	23.89	0.245	24,+1.7/-6.7	PASS
2				Lowest	9262	1852.4		19.94	21.94	0.156	22,+3.7/-5.2	PASS	
				Middle	9400	1880.0		20.10	22.10	0.162	22,+3.7/-5.2	PASS	
				Highest	9538	1907.6		19.90	21.90	0.155	22,+3.7/-5.2	PASS	
3				Lowest	9262	1852.4		20.80	22.80	0.191	23,+2.7/-5.2	PASS	
				Middle	9400	1880.0		21.06	23.06	0.202	23,+2.7/-5.2	PASS	
				Highest	9538	1907.6		20.88	22.88	0.194	23,+2.7/-5.2	PASS	
4				Lowest	9262	1852.4		19.93	21.93	0.156	22,+3.7/-5.2	PASS	
				Middle	9400	1880.0		20.91	22.91	0.195	22,+3.7/-5.2	PASS	
				Highest	9538	1907.6		19.79	21.79	0.151	22,+3.7/-5.2	PASS	
5				Lowest	9262	1852.4		21.81	23.81	0.240	24,+1.7/-3.7	PASS	
				Middle	9400	1880.0		21.93	23.93	0.247	24,+1.7/-3.7	PASS	
				Highest	9538	1907.6		21.76	23.76	0.238	24,+1.7/-3.7	PASS	

Band	Modulation	Date Rate or Sub-test	CH		Frequency	Avg Conducted power (dBm)	Antenna Gain(dBi)	EIRP(dBm)	EIRP(W)	tolorance (dBm)	Results		
WCDMA IV	RMC12.2K	---	Lowest	1312	1712.4	23.42	0.50	25.42	0.348	24,+1.7/-3.7	PASS		
			Middle	1413	1732.6	23.60		25.60	0.363	24,+1.7/-3.7	PASS		
			Highest	1513	1752.6	23.57		25.57	0.361	24,+1.7/-3.7	PASS		
HSDPA IV	QPSK	1	Lowest	1312	1712.4	22.69		24.69	0.294	24,+1.7/-3.7	PASS		
			Middle	1413	1732.6	22.77		24.77	0.300	24,+1.7/-3.7	PASS		
			Highest	1513	1752.6	22.84		24.84	0.305	24,+1.7/-3.7	PASS		
		2	Lowest	1312	1712.4	22.54		24.54	0.284	24,+1.7/-3.7	PASS		
			Middle	1413	1732.6	22.61		24.61	0.289	24,+1.7/-3.7	PASS		
			Highest	1513	1752.6	22.71		24.71	0.296	24,+1.7/-3.7	PASS		
		3	Lowest	1312	1712.4	22.18		24.18	0.262	23.5,+2.2/-3.7	PASS		
			Middle	1413	1732.6	22.24		24.24	0.265	23.5,+2.2/-3.7	PASS		
			Highest	1513	1752.6	22.32		24.32	0.270	23.5,+2.2/-3.7	PASS		
		4	Lowest	1312	1712.4	22.16		24.16	0.261	23.5,+2.2/-3.7	PASS		
			Middle	1413	1732.6	22.26		24.26	0.267	23.5,+2.2/-3.7	PASS		
			Highest	1513	1752.6	22.34		24.34	0.272	23.5,+2.2/-3.7	PASS		
		HSUPA IV	QPSK	1	Lowest	1312		1712.4	21.94	23.94	0.248	24,+1.7/-6.7	PASS
					Middle	1413		1732.6	22.04	24.04	0.254	24,+1.7/-6.7	PASS
					Highest	1513		1752.6	22.10	24.10	0.257	24,+1.7/-6.7	PASS
2				Lowest	1312	1712.4		20.00	22.00	0.158	22,+3.7/-5.2	PASS	
				Middle	1413	1732.6		19.93	21.93	0.156	22,+3.7/-5.2	PASS	
				Highest	1513	1752.6		20.00	22.00	0.158	22,+3.7/-5.2	PASS	
3				Lowest	1312	1712.4		20.95	22.95	0.197	23,+2.7/-5.2	PASS	
				Middle	1413	1732.6		20.94	22.94	0.197	23,+2.7/-5.2	PASS	
				Highest	1513	1752.6		21.15	23.15	0.207	23,+2.7/-5.2	PASS	
4				Lowest	1312	1712.4		19.98	21.98	0.158	22,+3.7/-5.2	PASS	
				Middle	1413	1732.6		20.89	22.89	0.195	22,+3.7/-5.2	PASS	
				Highest	1513	1752.6		20.00	22.00	0.158	22,+3.7/-5.2	PASS	
5				Lowest	1312	1712.4		21.83	23.83	0.242	24,+1.7/-3.7	PASS	
				Middle	1413	1732.6		21.97	23.97	0.249	24,+1.7/-3.7	PASS	
				Highest	1513	1752.6		22.00	24.00	0.251	24,+1.7/-3.7	PASS	

Band	Modulation	Date Rate or Sub-test	CH		Frequency (MHz)	Avg Conducted power (dBm)	Antenna Gain(dBi)	ERP(dBm)	ERP(W)	tolorance (dBm)	Results		
WCDMA V	RMC12.2K	---	Lowest	4132	826.4	23.33	-1.20	19.98	0.100	24,+1.7/-3.7	PASS		
			Middle	4183	836.6	23.46		20.11	0.103	24,+1.7/-3.7	PASS		
			Highest	4233	846.6	23.37		20.02	0.100	24,+1.7/-3.7	PASS		
HSDPA V	QPSK	1	Lowest	4132	826.4	22.55		19.20	0.083	24,+1.7/-3.7	PASS		
			Middle	4183	836.6	22.72		19.37	0.086	24,+1.7/-3.7	PASS		
			Highest	4233	846.6	22.65		19.30	0.085	24,+1.7/-3.7	PASS		
		2	Lowest	4132	826.4	22.39		19.04	0.080	24,+1.7/-3.7	PASS		
			Middle	4183	836.6	22.58		19.23	0.084	24,+1.7/-3.7	PASS		
			Highest	4233	846.6	22.48		19.13	0.082	24,+1.7/-3.7	PASS		
		3	Lowest	4132	826.4	22.06		18.71	0.074	23.5,+2.2/-3.7	PASS		
			Middle	4183	836.6	22.21		18.86	0.077	23.5,+2.2/-3.7	PASS		
			Highest	4233	846.6	22.13		18.78	0.076	23.5,+2.2/-3.7	PASS		
		4	Lowest	4132	826.4	22.01		18.66	0.073	23.5,+2.2/-3.7	PASS		
			Middle	4183	836.6	22.19		18.84	0.077	23.5,+2.2/-3.7	PASS		
			Highest	4233	846.6	22.13		18.78	0.076	23.5,+2.2/-3.7	PASS		
		HSUPA V	QPSK	1	Lowest	4132		826.4	21.84	18.49	0.071	24,+1.7/-6.7	PASS
					Middle	4183		836.6	22.00	18.65	0.073	24,+1.7/-6.7	PASS
					Highest	4233		846.6	21.92	18.57	0.072	24,+1.7/-6.7	PASS
				2	Lowest	4132		826.4	19.80	16.45	0.044	22,+3.7/-5.2	PASS
					Middle	4183		836.6	19.93	16.58	0.045	22,+3.7/-5.2	PASS
					Highest	4233		846.6	19.88	16.53	0.045	22,+3.7/-5.2	PASS
3	Lowest			4132	826.4	20.83		17.48	0.056	23,+2.7/-5.2	PASS		
	Middle			4183	836.6	21.05		17.70	0.059	23,+2.7/-5.2	PASS		
	Highest			4233	846.6	20.80		17.45	0.056	23,+2.7/-5.2	PASS		
4	Lowest			4132	826.4	19.77		16.42	0.044	22,+3.7/-5.2	PASS		
	Middle			4183	836.6	20.83		17.48	0.056	22,+3.7/-5.2	PASS		
	Highest			4233	846.6	19.83		16.48	0.044	22,+3.7/-5.2	PASS		
5	Lowest			4132	826.4	21.66		18.31	0.068	24,+1.7/-3.7	PASS		
	Middle			4183	836.6	21.96		18.61	0.073	24,+1.7/-3.7	PASS		
	Highest			4233	846.6	21.66		18.31	0.068	24,+1.7/-3.7	PASS		

Band	Channel Bandwidth	Modulation	CH	Frequency	RB Configuration		Average Power	Antenna Gain	E.I.R.P.		Limit
				(MHz)	Size	Offset	(dBm)	(dBi)	(dBm)	(W)	(W)
LTE Band 2	1.4 MHz	QPSK	18900	1880	1	0	23.08	2	25.08	0.322	≤ 2
		16QAM	18900	1880	1	0	22.46	2	24.46	0.279	≤ 2
		64QAM	19193	1909.3	1	0	21.67	2	23.67	0.233	≤ 2
	3 MHz	QPSK	18900	1880	1	0	23.14	2	25.14	0.327	≤ 2
		16QAM	19185	1908.5	1	0	22.45	2	24.45	0.279	≤ 2
		64QAM	18900	1880	1	0	21.63	2	23.63	0.231	≤ 2
	5 MHz	QPSK	18900	1880	1	0	23.18	2	25.18	0.330	≤ 2
		16QAM	19175	1907.5	1	0	22.44	2	24.44	0.278	≤ 2
		64QAM	18900	1880	1	0	21.69	2	23.69	0.234	≤ 2
	10 MHz	QPSK	18900	1880	1	0	23.10	2	25.10	0.324	≤ 2
		16QAM	18900	1880	1	0	22.36	2	24.36	0.273	≤ 2
		64QAM	19150	1905	1	0	21.66	2	23.66	0.232	≤ 2
	15 MHz	QPSK	18900	1880	1	0	23.15	2	25.15	0.327	≤ 2
		16QAM	19125	1902.5	1	0	22.42	2	24.42	0.277	≤ 2
		64QAM	18900	1880	1	0	21.64	2	23.64	0.231	≤ 2
	20 MHz	QPSK	19100	1900	1	0	23.20	2	25.20	0.331	≤ 2
		16QAM	18900	1880	1	0	22.41	2	24.41	0.276	≤ 2
		64QAM	19100	1900	1	0	21.66	2	23.66	0.232	≤ 2
Band	Channel Bandwidth	Modulation	CH	Frequency	RB Configuration		Average Power	Antenna Gain	E.I.R.P.		Limit
				(MHz)	Size	Offset	(dBm)	(dBi)	(dBm)	(W)	(W)
LTE Band 4	1.4 MHz	QPSK	20393	1754.3	1	0	23.24	0.5	23.74	0.237	≤ 1
		16QAM	20175	1732.5	1	2	22.58	0.5	23.08	0.203	≤ 1
		64QAM	20175	1732.5	1	2	21.77	0.5	22.27	0.169	≤ 1
	3 MHz	QPSK	20175	1732.5	1	0	23.25	0.5	23.75	0.237	≤ 1
		16QAM	20175	1732.5	1	14	22.56	0.5	23.06	0.202	≤ 1
		64QAM	20175	1732.5	1	7	21.79	0.5	22.29	0.169	≤ 1
	5 MHz	QPSK	19975	1712.5	1	0	23.22	0.5	23.72	0.236	≤ 1
		16QAM	19975	1712.5	1	24	22.52	0.5	23.02	0.200	≤ 1
		64QAM	20175	1732.5	1	12	21.80	0.5	22.30	0.170	≤ 1
	10 MHz	QPSK	20175	1732.5	1	0	23.21	0.5	23.71	0.235	≤ 1
		16QAM	20350	1750	1	0	22.57	0.5	23.07	0.203	≤ 1
		64QAM	20175	1732.5	1	49	21.75	0.5	22.25	0.168	≤ 1
	15 MHz	QPSK	20025	1717.5	1	0	23.23	0.5	23.73	0.236	≤ 1
		16QAM	20025	1717.5	1	74	22.62	0.5	23.12	0.205	≤ 1
		64QAM	20175	1732.5	1	37	21.72	0.5	22.22	0.167	≤ 1
	20 MHz	QPSK	20175	1732.5	1	0	23.27	0.5	23.77	0.238	≤ 1
		16QAM	20175	1732.5	1	99	22.56	0.5	23.06	0.202	≤ 1
		64QAM	20175	1732.5	1	0	21.77	0.5	22.27	0.169	≤ 1

Band	Channel Bandwidth	Modulation	CH	Frequency	RB Configuration		Average Power	Antenna Gain	E.R.P.		Limit
				(MHz)	Size	Offset			(dBm)	(W)	
LTE Band 5	1.4 MHz	QPSK	20525	836.5	1	0	23.17	-1.2	19.82	0.096	≤ 3
		16QAM	20525	836.5	1	0	22.53	-1.2	19.18	0.083	≤ 3
		64QAM	20525	836.5	1	0	21.83	-1.2	18.48	0.070	≤ 3
	3 MHz	QPSK	20525	836.5	1	0	23.23	-1.2	19.88	0.097	≤ 3
		16QAM	20525	836.5	1	0	22.54	-1.2	19.19	0.083	≤ 3
		64QAM	20525	836.5	1	0	21.83	-1.2	18.48	0.070	≤ 3
	5 MHz	QPSK	20525	836.5	1	0	23.18	-1.2	19.83	0.096	≤ 3
		16QAM	20425	826.5	1	0	22.56	-1.2	19.21	0.083	≤ 3
		64QAM	20525	836.5	1	0	21.80	-1.2	18.45	0.070	≤ 3
	10 MHz	QPSK	20525	836.5	1	0	23.25	-1.2	19.90	0.098	≤ 3
		16QAM	20450	829	1	0	22.53	-1.2	19.18	0.083	≤ 3
		64QAM	20525	836.5	1	0	21.78	-1.2	18.43	0.070	≤ 3
Band	Channel Bandwidth	Modulation	CH	Frequency	RB Configuration		Average Power	Antenna Gain	E.I.R.P.		Limit
				(MHz)	Size	Offset			(dBm)	(W)	
LTE Band 7	5 MHz	QPSK	21425	2567.5	1	0	23.06	-0.4	22.66	0.185	≤ 2
		16QAM	20775	2502.5	1	0	22.31	-0.4	21.91	0.155	≤ 2
		64QAM	20775	2502.5	1	12	21.55	-0.4	21.15	0.130	≤ 2
	10 MHz	QPSK	21400	2565	1	0	23.04	-0.4	22.64	0.184	≤ 2
		16QAM	21400	2565	1	0	22.32	-0.4	21.92	0.156	≤ 2
		64QAM	20800	2505	1	0	21.57	-0.4	21.17	0.131	≤ 2
	15 MHz	QPSK	20825	2507.5	1	0	23.01	-0.4	22.61	0.182	≤ 2
		16QAM	20825	2507.5	1	0	22.30	-0.4	21.90	0.155	≤ 2
		64QAM	20825	2507.5	1	0	21.56	-0.4	21.16	0.131	≤ 2
	20 MHz	QPSK	21350	2560	1	0	23.09	-0.4	22.69	0.186	≤ 2
		16QAM	21350	2560	1	0	22.37	-0.4	21.97	0.157	≤ 2
		64QAM	20850	2510	1	0	21.58	-0.4	21.18	0.131	≤ 2

Band	Channel Bandwidth	Modulation	CH	Frequency	RB Configuration		Average Power	Antenna Gain	E.R.P.		Limit
				(MHz)	Size	Offset	(dBm)	(dBi)	(dBm)	(W)	(W)
LTE Band 12	1.4 MHz	QPSK	23173	715.3	1	0	23.19	-2.4	18.64	0.073	≤ 3
		16QAM	23173	715.3	1	0	22.53	-2.4	17.98	0.063	≤ 3
		64QAM	23173	715.3	1	0	21.77	-2.4	17.22	0.053	≤ 3
	3 MHz	QPSK	23095	707.5	1	0	23.21	-2.4	18.66	0.073	≤ 3
		16QAM	23095	707.5	1	0	22.53	-2.4	17.98	0.063	≤ 3
		64QAM	23165	714.5	1	7	21.77	-2.4	17.22	0.053	≤ 3
	5 MHz	QPSK	23035	701.5	1	0	23.24	-2.4	18.69	0.074	≤ 3
		16QAM	23155	713.5	1	0	22.53	-2.4	17.98	0.063	≤ 3
		64QAM	23155	713.5	1	12	21.73	-2.4	17.18	0.052	≤ 3
	10 MHz	QPSK	23130	711	1	0	23.28	-2.4	18.73	0.075	≤ 3
		16QAM	23130	711	1	0	22.60	-2.4	18.05	0.064	≤ 3
		64QAM	23095	707.5	1	0	21.78	-2.4	17.23	0.053	≤ 3
Band	Channel Bandwidth	Modulation	CH	Frequency	RB Configuration		Average Power	Antenna Gain	E.R.P.		Limit
				(MHz)	Size	Offset	(dBm)	(dBi)	(dBm)	(W)	(W)
LTE Band 13	5 MHz	QPSK	23230	782	1	0	23.29	-1	20.14	0.103	≤ 3
		16QAM	23255	784.5	1	0	22.54	-1	19.39	0.087	≤ 3
		64QAM	23230	782	1	0	21.77	-1	18.62	0.073	≤ 3
	10 MHz	QPSK	23230	782	1	0	23.31	-1	20.16	0.104	≤ 3
		16QAM	23230	782	1	0	22.53	-1	19.38	0.087	≤ 3
		64QAM	23230	782	1	0	21.75	-1	18.60	0.072	≤ 3
Band	Channel Bandwidth	Modulation	CH	Frequency	RB Configuration		Average Power	Antenna Gain	E.R.P.		Limit
				(MHz)	Size	Offset	(dBm)	(dBi)	(dBm)	(W)	(W)
LTE Band 14	5 MHz	QPSK	23355	795.5	1	0	23.26	-1	20.11	0.103	≤ 3
		16QAM	23330	793	1	0	22.57	-1	19.42	0.087	≤ 3
		64QAM	23305	790.5	1	0	21.80	-1	18.65	0.073	≤ 3
	10 MHz	QPSK	23330	793	1	0	23.29	-1	20.14	0.103	≤ 3
		16QAM	23330	793	1	0	22.53	-1	19.38	0.087	≤ 3
		64QAM	23330	793	1	0	21.75	-1	18.60	0.072	≤ 3

Band	Channel Bandwidth	Modulation	CH	Frequency	RB Configuration		Average Power (dBm)	Antenna Gain (dBi)	E.I.R.P.		Limit
				(MHz)	Size	Offset			(dBm)	(W)	(W)
LTE Band 25	1.4 MHz	QPSK	26365	1882.5	1	0	23.24	2	25.24	0.334	≤ 2
		16QAM	26047	1850.7	1	0	22.51	2	24.51	0.282	≤ 2
		64QAM	26365	1882.5	1	2	21.79	2	23.79	0.239	≤ 2
	3 MHz	QPSK	26365	1882.5	1	0	23.22	2	25.22	0.333	≤ 2
		16QAM	26055	1851.5	1	0	22.42	2	24.42	0.277	≤ 2
		64QAM	26365	1882.5	1	7	21.82	2	23.82	0.241	≤ 2
	5 MHz	QPSK	26065	1852.5	1	0	23.25	2	25.25	0.335	≤ 2
		16QAM	26065	1852.5	1	0	22.53	2	24.53	0.284	≤ 2
		64QAM	26365	1882.5	1	12	21.81	2	23.81	0.240	≤ 2
	10 MHz	QPSK	26365	1882.5	1	0	23.23	2	25.23	0.333	≤ 2
		16QAM	26365	1882.5	1	0	22.58	2	24.58	0.287	≤ 2
		64QAM	26365	1882.5	1	24	21.82	2	23.82	0.241	≤ 2
	15 MHz	QPSK	26115	1857.5	1	0	23.26	2	25.26	0.336	≤ 2
		16QAM	26115	1857.5	1	0	22.47	2	24.47	0.280	≤ 2
		64QAM	26365	1882.5	1	37	21.82	2	23.82	0.241	≤ 2
	20 MHz	QPSK	26140	1860	1	0	23.29	2	25.29	0.338	≤ 2
		16QAM	26140	1860	1	0	22.46	2	24.46	0.279	≤ 2
		64QAM	26140	1860	1	0	21.76	2	23.76	0.238	≤ 2
Band	Channel Bandwidth	Modulation	CH	Frequency	RB Configuration		Average Power (dBm)	Antenna Gain (dBi)	E.R.P.		Limit
				(MHz)	Size	Offset			(dBm)	(W)	(W)
LTE Band 26 814~824 MHz	1.4 MHz	QPSK	26697	814.7	1	0	23.17	-1.2	19.82	0.096	NA
		16QAM	26697	814.7	1	0	22.50	-1.2	19.15	0.082	NA
		64QAM	26740	819	1	0	21.79	-1.2	18.44	0.070	NA
	3 MHz	QPSK	26705	815.5	1	0	23.19	-1.2	19.84	0.096	NA
		16QAM	26705	815.5	1	0	22.50	-1.2	19.15	0.082	NA
		64QAM	26740	819	1	0	21.80	-1.2	18.45	0.070	NA
	5 MHz	QPSK	26765	821.5	1	0	23.20	-1.2	19.85	0.097	NA
		16QAM	26715	816.5	1	0	22.45	-1.2	19.10	0.081	NA
		64QAM	26715	816.5	1	0	21.79	-1.2	18.44	0.070	NA
	10 MHz	QPSK	26740	819	1	0	23.23	-1.2	19.88	0.097	NA
		16QAM	26740	819	1	0	22.56	-1.2	19.21	0.083	NA
		64QAM	26740	819	1	0	21.77	-1.2	18.42	0.070	NA

Band	Channel Bandwidth	Modulation	CH	Frequency	RB Configuration		Average Power	Antenna Gain	E.R.P.		Limit
				(MHz)	Size	Offset	(dBm)	(dBi)	(dBm)	(W)	(W)
LTE Band 26 824~849 MHz	1.4 MHz	QPSK	26915	836.5	1	0	23.18	-1.2	19.83	0.096	≤ 7
		16QAM	26797	824.7	1	0	22.58	-1.2	19.23	0.084	≤ 7
		64QAM	27033	848.3	1	0	21.74	-1.2	18.39	0.069	≤ 7
	3 MHz	QPSK	27025	847.5	1	0	23.21	-1.2	19.86	0.097	≤ 7
		16QAM	26805	825.5	1	0	22.49	-1.2	19.14	0.082	≤ 7
		64QAM	27025	847.5	1	0	21.80	-1.2	18.45	0.070	≤ 7
	5 MHz	QPSK	27015	846.5	1	0	23.23	-1.2	19.88	0.097	≤ 7
		16QAM	26915	836.5	1	0	22.44	-1.2	19.09	0.081	≤ 7
		64QAM	26915	836.5	1	12	21.80	-1.2	18.45	0.070	≤ 7
	10 MHz	QPSK	26840	829	1	0	23.24	-1.2	19.89	0.097	≤ 7
		16QAM	26840	829	1	0	22.48	-1.2	19.13	0.082	≤ 7
		64QAM	26915	836.5	1	49	21.73	-1.2	18.38	0.069	≤ 7
	15 MHz	QPSK	26915	836.5	1	0	23.25	-1.2	19.90	0.098	≤ 7
		16QAM	26965	841.5	1	0	22.49	-1.2	19.14	0.082	≤ 7
		64QAM	26865	831.5	1	0	21.81	-1.2	18.46	0.070	≤ 7
Band	Channel Bandwidth	Modulation	CH	Frequency	RB Configuration		Average Power	Antenna Gain	E.I.R.P.		Limit
				(MHz)	Size	Offset	(dBm)	(dBi)	(dBm)	(W)	(W/5 MHz)
LTE Band 30	5 MHz	QPSK	27710	2310	1	0	22.86	-0.9	21.96	0.157	≤ 0.25
		16QAM	27685	2307.5	1	0	22.14	-0.9	21.24	0.133	≤ 0.25
		64QAM	27685	2307.5	1	24	21.47	-0.9	20.57	0.114	≤ 0.25
	10 MHz	QPSK	27710	2310	1	0	22.87	-0.9	21.97	0.157	≤ 0.25
		16QAM	27710	2310	1	24	22.10	-0.9	21.20	0.132	≤ 0.25
		64QAM	27710	2310	1	24	21.47	-0.9	20.57	0.114	≤ 0.25
Band	Channel Bandwidth	Modulation	CH	Frequency	RB Configuration		Average Power	Antenna Gain	E.I.R.P.		Limit
				(MHz)	Size	Offset	(dBm)	(dBi)	(dBm)	(W)	(W)
LTE Band 38	5 MHz	QPSK	38000	2595	1	0	22.96	-0.4	22.56	0.180	≤ 2
		16QAM	38225	2617.5	1	12	22.22	-0.4	21.82	0.152	≤ 2
		64QAM	38225	2617.5	1	24	21.44	-0.4	21.04	0.127	≤ 2
	10 MHz	QPSK	38200	2615	1	0	22.90	-0.4	22.50	0.178	≤ 2
		16QAM	38200	2615	1	0	22.16	-0.4	21.76	0.150	≤ 2
		64QAM	38200	2615	1	24	21.48	-0.4	21.08	0.128	≤ 2
	15 MHz	QPSK	37825	2577.5	1	0	22.92	-0.4	22.52	0.179	≤ 2
		16QAM	38175	2612.5	1	0	22.20	-0.4	21.80	0.151	≤ 2
		64QAM	38175	2612.5	1	37	21.46	-0.4	21.06	0.128	≤ 2
	20 MHz	QPSK	38000	2595	1	0	22.98	-0.4	22.58	0.181	≤ 2
		16QAM	38150	2610	1	0	22.30	-0.4	21.90	0.155	≤ 2
		64QAM	38150	2610	1	0	21.46	-0.4	21.06	0.128	≤ 2

Band	Channel Bandwidth	Modulation	CH	Frequency	RB Configuration		Average Power (dBm)	Antenna Gain (dBi)	E.I.R.P.		Limit (W/5 MHz)
				(MHz)	Size	Offset			(dBm)	(W)	
LTE Band 40 2305~2315MHz	5 MHz	QPSK	38750	2310	1	0	22.89	-0.9	21.99	0.158	≤ 0.25
		16QAM	38750	2310	1	0	22.25	-0.9	21.35	0.136	≤ 0.25
		64QAM	38725	2307.5	1	24	21.46	-0.9	20.56	0.114	≤ 0.25
	10 MHz	QPSK	38750	2310	1	0	22.93	-0.9	22.03	0.160	≤ 0.25
		16QAM	38750	2310	1	0	22.17	-0.9	21.27	0.134	≤ 0.25
		64QAM	38750	2310	1	24	21.41	-0.9	20.51	0.112	≤ 0.25
Band	Channel Bandwidth	Modulation	CH	Frequency	RB Configuration		Average Power (dBm)	Antenna Gain (dBi)	E.I.R.P.		Limit (W/5 MHz)
				(MHz)	Size	Offset			(dBm)	(W)	
LTE Band 40 2350~2360MHz	5 MHz	QPSK	39200	2355	1	0	22.85	-0.9	21.95	0.157	≤ 0.25
		16QAM	39200	2355	1	0	22.16	-0.9	21.26	0.134	≤ 0.25
		64QAM	39200	2355	1	0	21.39	-0.9	20.49	0.112	≤ 0.25
	10 MHz	QPSK	39200	2355	1	0	22.87	-0.9	21.97	0.157	≤ 0.25
		16QAM	39200	2355	1	0	22.09	-0.9	21.19	0.132	≤ 0.25
		64QAM	39200	2355	1	0	21.26	-0.9	20.36	0.109	≤ 0.25
Band	Channel Bandwidth	Modulation	CH	Frequency	RB Configuration		Average Power (dBm)	Antenna Gain (dBi)	E.I.R.P.		Limit (W)
				(MHz)	Size	Offset			(dBm)	(W)	
LTE Band 41	5 MHz	QPSK	41565	2687.5	1	0	22.92	-0.4	22.52	0.179	≤ 2
		16QAM	39675	2498.5	1	24	22.24	-0.4	21.84	0.153	≤ 2
		64QAM	40620	2593	1	0	21.47	-0.4	21.07	0.128	≤ 2
	10 MHz	QPSK	41540	2685	1	0	22.94	-0.4	22.54	0.179	≤ 2
		16QAM	41540	2685	1	0	22.26	-0.4	21.86	0.153	≤ 2
		64QAM	39700	2501	1	49	21.50	-0.4	21.10	0.129	≤ 2
	15 MHz	QPSK	41515	2682.5	1	0	22.91	-0.4	22.51	0.178	≤ 2
		16QAM	41515	2682.5	1	0	22.27	-0.4	21.87	0.154	≤ 2
		64QAM	39725	2503.5	1	0	21.48	-0.4	21.08	0.128	≤ 2
	20 MHz	QPSK	41490	2680	1	0	23.01	-0.4	22.61	0.182	≤ 2
		16QAM	41490	2680	1	0	22.29	-0.4	21.89	0.155	≤ 2
		64QAM	39750	2506	1	99	21.52	-0.4	21.12	0.129	≤ 2

Band	Channel Bandwidth	Modulation	CH	Frequency	RB Configuration		Ant. Pol.	SPA. Reading	Correction Factor	E.I.R.P.		Limit
				(MHz)	Size	Offset				(dBm)	(W)	
LTE Band 42 3450~3550MHz	5 MHz	QPSK	42115	3452.5	1	0	H	-29.73	50.08	20.35	0.108	≤ 23
		16QAM	42590	3500	1	0	H	-29.83	50.13	20.30	0.107	≤ 23
		64QAM	42115	3452.5	1	0	H	-30.14	50.08	19.94	0.099	≤ 23
	10 MHz	QPSK	42140	3455	1	0	H	-29.75	50.09	20.34	0.108	≤ 23
		16QAM	42590	3500	1	0	H	-29.86	50.13	20.27	0.106	≤ 23
		64QAM	42140	3455	1	0	H	-30.20	50.09	19.89	0.097	≤ 23
	15 MHz	QPSK	42165	3457.5	1	0	H	-29.79	50.12	20.33	0.108	≤ 23
		16QAM	42165	3457.5	1	0	H	-29.83	50.12	20.29	0.107	≤ 23
		64QAM	42165	3457.5	1	0	H	-30.20	50.12	19.92	0.098	≤ 23
	20 MHz	QPSK	42190	3460	1	0	H	-29.74	50.12	20.38	0.109	≤ 23
		16QAM	42590	3500	1	0	H	-29.84	50.13	20.29	0.107	≤ 23
		64QAM	42190	3460	1	0	H	-30.18	50.12	19.94	0.099	≤ 23
Band	Channel Bandwidth	Modulation	CH	Frequency	RB Configuration		Ant. Pol.	SPA. Reading	Correction Factor	E.I.R.P.		Limit
				(MHz)	Size	Offset				(dBm)	(W)	
LTE Band 42 3550~3600MHz	5 MHz	QPSK	43115	3552.5	1	0	H	-29.78	50.13	20.35	0.108	≤ 23
		16QAM	43340	3575	1	0	H	-29.84	50.13	20.29	0.107	≤ 23
		64QAM	43115	3552.5	1	0	H	-30.25	50.13	19.88	0.097	≤ 23
	10 MHz	QPSK	43140	3555	1	0	H	-29.80	50.13	20.33	0.108	≤ 23
		16QAM	43140	3555	1	0	H	-29.87	50.13	20.26	0.106	≤ 23
		64QAM	43140	3555	1	0	H	-30.24	50.13	19.89	0.097	≤ 23
	15 MHz	QPSK	43165	3557.5	1	0	H	-29.82	50.14	20.32	0.108	≤ 23
		16QAM	43165	3557.5	1	0	H	-29.87	50.14	20.27	0.106	≤ 23
		64QAM	43165	3557.5	1	0	H	-30.29	50.14	19.85	0.097	≤ 23
	20 MHz	QPSK	43190	3560	1	0	H	-29.77	50.14	20.37	0.109	≤ 23
		16QAM	43190	3560	1	0	H	-29.89	50.14	20.25	0.106	≤ 23
		64QAM	43190	3560	1	0	H	-30.21	50.14	19.93	0.098	≤ 23

Band	Channel Bandwidth	Modulation	CH	Frequency	RB Configuration		Ant. Pol.	SPA. Reading	Correction Factor	E.I.R.P.		Limit
				(MHz)	Size	Offset				(dBm)	(W)	
LTE Band 43 3600~3700MHz	5 MHz	QPSK	44090	3650	1	0	H	-29.79	50.17	20.38	0.109	≤ 23
		16QAM	44090	3650	1	0	H	-29.92	50.17	20.25	0.106	≤ 23
		64QAM	44090	3650	1	0	H	-30.36	50.17	19.81	0.096	≤ 23
	10 MHz	QPSK	44540	3695	1	0	H	-29.81	50.17	20.36	0.109	≤ 23
		16QAM	44090	3650	1	0	H	-29.93	50.17	20.24	0.106	≤ 23
		64QAM	44090	3650	1	0	H	-30.34	50.17	19.83	0.096	≤ 23
	15 MHz	QPSK	44090	3650	1	0	H	-29.80	50.17	20.37	0.109	≤ 23
		16QAM	43665	3607.5	1	0	H	-29.91	50.14	20.23	0.105	≤ 23
		64QAM	43665	3607.5	1	0	H	-30.34	50.14	19.80	0.095	≤ 23
	20 MHz	QPSK	43690	3610	1	0	H	-29.75	50.15	20.40	0.110	≤ 23
		16QAM	43690	3610	1	0	H	-29.82	50.15	20.33	0.108	≤ 23
		64QAM	43690	3610	1	0	H	-30.35	50.15	19.80	0.095	≤ 23
Band	Channel Bandwidth	Modulation	CH	Frequency	RB Configuration		Ant. Pol.	SPA. Reading	Correction Factor	E.I.R.P.		Limit
				(MHz)	Size	Offset				(dBm)	(W)	
LTE Band 48	5 MHz	QPSK	55265	3552.5	1	0	H	-29.72	50.13	20.41	0.110	≤ 23
		16QAM	55990	3625	1	0	H	-29.80	50.17	20.37	0.109	≤ 23
		64QAM	55990	3625	1	0	H	-30.24	50.17	19.93	0.098	≤ 23
	10 MHz	QPSK	55290	3555	1	0	H	-29.77	50.13	20.36	0.109	≤ 23
		16QAM	55290	3555	1	0	H	-29.77	50.13	20.36	0.109	≤ 23
		64QAM	55990	3625	1	0	H	-30.21	50.17	19.96	0.099	≤ 23
	15 MHz	QPSK	55315	3557.5	1	0	H	-29.76	50.13	20.37	0.109	≤ 23
		16QAM	55990	3625	1	0	H	-29.82	50.17	20.35	0.108	≤ 23
		64QAM	55990	3625	1	0	H	-30.26	50.17	19.91	0.098	≤ 23
	20 MHz	QPSK	55340	3560	1	0	H	-29.71	50.13	20.42	0.110	≤ 23
		16QAM	56640	3690	1	0	H	-29.76	50.17	20.41	0.110	≤ 23
		64QAM	56640	3690	1	0	H	-30.23	50.17	19.94	0.099	≤ 23

Band	Channel Bandwidth	Modulation	CH	Frequency	RB Configuration		Average Power (dBm)	Antenna Gain (dBi)	E.I.R.P.		Limit
				(MHz)	Size	Offset			(dBm)	(W)	(W)
LTE Band 66	1.4 MHz	QPSK	132322	1745	1	0	23.25	0.5	23.75	0.237	≤ 1
		16QAM	132665	1779.3	1	0	22.53	0.5	23.03	0.201	≤ 1
		64QAM	132665	1779.3	1	0	21.73	0.5	22.23	0.167	≤ 1
	3 MHz	QPSK	131987	1711.5	1	0	23.24	0.5	23.74	0.237	≤ 1
		16QAM	132657	1778.5	1	0	22.55	0.5	23.05	0.202	≤ 1
		64QAM	132657	1778.5	1	0	21.75	0.5	22.25	0.168	≤ 1
	5 MHz	QPSK	132322	1745	1	0	23.23	0.5	23.73	0.236	≤ 1
		16QAM	131997	1712.5	1	0	22.59	0.5	23.09	0.204	≤ 1
		64QAM	232647	1777.5	1	0	21.77	0.5	22.27	0.169	≤ 1
	10 MHz	QPSK	132322	1745	1	0	23.26	0.5	23.76	0.238	≤ 1
		16QAM	132022	1715	1	0	22.57	0.5	23.07	0.203	≤ 1
		64QAM	132622	1775	1	0	21.74	0.5	22.24	0.167	≤ 1
	15 MHz	QPSK	132322	1745	1	0	23.24	0.5	23.74	0.237	≤ 1
		16QAM	132047	1717.5	1	0	22.53	0.5	23.03	0.201	≤ 1
		64QAM	132597	1772.5	1	0	21.79	0.5	22.29	0.169	≤ 1
	20 MHz	QPSK	132322	1745	1	0	23.29	0.5	23.79	0.239	≤ 1
		16QAM	132072	1720	1	0	22.53	0.5	23.03	0.201	≤ 1
		64QAM	132572	1770	1	0	21.73	0.5	22.23	0.167	≤ 1
Band	Channel Bandwidth	Modulation	CH	Frequency	RB Configuration		Average Power (dBm)	Antenna Gain (dBi)	E.R.P.		Limit
				(MHz)	Size	Offset			(dBm)	(W)	(W)
LTE Band 71	5 MHz	QPSK	133147	665.5	1	0	23.23	-2.4	18.68	0.074	≤ 3
		16QAM	133147	665.5	1	0	22.55	-2.4	18.00	0.063	≤ 3
		64QAM	133147	665.5	1	0	21.82	-2.4	17.27	0.053	≤ 3
	10 MHz	QPSK	133172	668	1	0	23.24	-2.4	18.69	0.074	≤ 3
		16QAM	133422	693	1	0	22.45	-2.4	17.90	0.062	≤ 3
		64QAM	133422	693	1	0	21.77	-2.4	17.22	0.053	≤ 3
	15 MHz	QPSK	133197	670.5	1	0	23.22	-2.4	18.67	0.074	≤ 3
		16QAM	133197	670.5	1	0	22.45	-2.4	17.90	0.062	≤ 3
		64QAM	133397	690.5	1	0	21.78	-2.4	17.23	0.053	≤ 3
	20 MHz	QPSK	133222	673	1	0	23.27	-2.4	18.72	0.074	≤ 3
		16QAM	133322	683	1	0	22.59	-2.4	18.04	0.064	≤ 3
		64QAM	133222	673	1	0	21.82	-2.4	17.27	0.053	≤ 3

Uplink carrier aggregation Power															
E-UTRA CA Combination	PCC	SCC	Modulation	Bandwidth (MHz)	PCC		SCC		Total RB Size	Measured Power (dBm)	ANT Gain (dBi)	EIRP (dBm)	EIRP (W)	OBW (MHz)	EIRP Limit (W)
	Channel	Channel			RB Size	RB Offset	RB Size	RB Offset							
CA_7C	20850	21048	QPSK	20+20	1	99	1	0	2	23.66	-0.4	23.26	0.212	37.437	2
	21001	21199			1	99	1	0	2	23.71		23.31	0.214	37.466	
	21152	21350			1	99	1	0	2	23.55		23.15	0.207	37.503	
CA_66B	132047	132140	QPSK	15+5	1	74	1	0	2	23.71	0.5	24.21	0.264	18.607	1
	132398	132491			1	74	1	0	2	23.88		24.38	0.274	18.609	
	132549	132642			1	74	1	0	2	23.82		24.32	0.270	18.685	
CA_66C	132072	132270	QPSK	20+20	1	99	1	0	2	23.57	0.5	24.07	0.255	37.546	1
	132323	132521			1	99	1	0	2	23.79		24.29	0.269	37.42	
	132374	132572			1	99	1	0	2	23.75		24.25	0.266	37.458	
CA_38C	37850	38048	QPSK	20+20	1	99	1	0	2	23.77	-0.4	23.37	0.217	37.676	2
	37901	38099			1	99	1	0	2	23.85		23.45	0.221	37.681	
	37952	38150			1	99	1	0	2	23.78		23.38	0.218	37.713	
CA_41C	39750	39948	QPSK	20+20	1	99	1	0	2	23.74	-0.4	23.34	0.216	37.685	2
	40185	39987			1	99	1	0	2	23.69		23.29	0.213	---	
	40521	40719			1	99	1	0	2	23.71		23.31	0.214	37.666	
	40620	40422			1	99	1	0	2	23.88		23.48	0.223	---	
	41055	40857			1	99	1	0	2	23.81		23.41	0.219	---	
	41292	41490			1	99	1	0	2	23.78		23.38	0.218	37.659	

4.2. Radiated Emission

Standard:	FCC_P22.24.27_other	Test Site:	966 Chamber
Polarization:	Horizontal		
Test Mode:	2G_GSM_850_CH128		
Remark:			

No.	Frequency (MHz)	Reading (dBm)	Correction (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	1648.400	-62.47	2.57	-59.90	-13.00	-46.90	peak
2*	2472.600	-42.92	5.02	-37.90	-13.00	-24.90	peak

Standard:	FCC_P22.24.27_other	Test Site:	966 Chamber
Polarization:	Vertical		
Test Mode:	2G_GSM_850_CH128		
Remark:			

No.	Frequency (MHz)	Reading (dBm)	Correction (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	1648.400	-62.16	2.57	-59.59	-13.00	-46.59	peak
2*	2472.600	-44.15	5.02	-39.13	-13.00	-26.13	peak

Standard:	FCC_P22.24.27_other	Test Site:	966 Chamber
Polarization:	Horizontal		
Test Mode:	2G_GSM_850_CH190		
Remark:			

No.	Frequency (MHz)	Reading (dBm)	Correction (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	1673.200	-63.92	2.65	-61.27	-13.00	-48.27	peak
2*	2509.800	-41.46	5.15	-36.31	-13.00	-23.31	peak

Standard:	FCC_P22.24.27_other	Test Site:	966 Chamber
Polarization:	Vertical		
Test Mode:	2G_GSM_850_CH190		
Remark:			

No.	Frequency (MHz)	Reading (dBm)	Correction (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	1673.200	-63.15	2.65	-60.50	-13.00	-47.50	peak
2*	2509.800	-44.33	5.15	-39.18	-13.00	-26.18	peak

Standard:	FCC_P22.24.27_other	Test Site:	966 Chamber
Polarization:	Horizontal		
Test Mode:	2G_GSM_850_CH251		
Remark:			

No.	Frequency (MHz)	Reading (dBm)	Correction (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	1697.600	-62.91	2.72	-60.19	-13.00	-47.19	peak
2*	2546.400	-42.95	5.29	-37.66	-13.00	-24.66	peak

Standard:	FCC_P22.24.27_other	Test Site:	966 Chamber
Polarization:	Vertical		
Test Mode:	2G_GSM_850_CH251		
Remark:			

No.	Frequency (MHz)	Reading (dBm)	Correction (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	1697.600	-62.49	2.72	-59.77	-13.00	-46.77	peak
2*	2546.400	-44.51	5.29	-39.22	-13.00	-26.22	peak

Standard:	FCC_P22.24.27_other	Test Site:	966 Chamber
Polarization:	Horizontal		
Test Mode:	2G_GSM_1900_CH512		
Remark:			

No.	Frequency (MHz)	Reading (dBm)	Correction (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	3700.400	-64.36	8.33	-56.03	-13.00	-43.03	peak
2*	5550.600	-68.12	13.72	-54.40	-13.00	-41.40	peak

Standard:	FCC_P22.24.27_other	Test Site:	966 Chamber
Polarization:	Vertical		
Test Mode:	2G_GSM_1900_CH512		
Remark:			

No.	Frequency (MHz)	Reading (dBm)	Correction (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	3700.400	-66.13	8.33	-57.80	-13.00	-44.80	peak
2*	5550.600	-69.25	13.72	-55.53	-13.00	-42.53	peak

Standard:	FCC_P22.24.27_other	Test Site:	966 Chamber
Polarization:	Horizontal		
Test Mode:	2G_GSM_1900_CH661		
Remark:			

No.	Frequency (MHz)	Reading (dBm)	Correction (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	3760.000	-64.19	8.53	-55.66	-13.00	-42.66	peak
2*	5640.000	-67.09	13.90	-53.19	-13.00	-40.19	peak

Standard:	FCC_P22.24.27_other	Test Site:	966 Chamber
Polarization:	Vertical		
Test Mode:	2G_GSM_1900_CH661		
Remark:			

No.	Frequency (MHz)	Reading (dBm)	Correction (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	3760.000	-62.58	8.53	-54.05	-13.00	-41.05	peak
2*	5640.000	-67.13	13.90	-53.23	-13.00	-40.23	peak

Standard:	FCC_P22.24.27_other	Test Site:	966 Chamber
Polarization:	Horizontal		
Test Mode:	2G_GSM_1900_CH810		
Remark:			

No.	Frequency (MHz)	Reading (dBm)	Correction (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	3819.600	-64.85	8.73	-56.12	-13.00	-43.12	peak
2*	5729.400	-68.44	14.10	-54.34	-13.00	-41.34	peak

Standard:	FCC_P22.24.27_other	Test Site:	966 Chamber
Polarization:	Vertical		
Test Mode:	2G_GSM_1900_CH810		
Remark:			

No.	Frequency (MHz)	Reading (dBm)	Correction (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	3819.600	-64.24	8.73	-55.51	-13.00	-42.51	peak
2*	5729.400	-68.46	14.10	-54.36	-13.00	-41.36	peak

Standard:	FCC_P22.24.27_other	Test Site:	966 Chamber
Polarization:	Horizontal		
Test Mode:	3G_BAND 2_CH9262		
Remark:			

No.	Frequency (MHz)	Reading (dBm)	Correction (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	3704.800	-67.74	8.35	-59.39	-13.00	-46.39	peak
2*	5557.200	-69.51	13.74	-55.77	-13.00	-42.77	peak

Standard:	FCC_P22.24.27_other	Test Site:	966 Chamber
Polarization:	Vertical		
Test Mode:	3G_BAND 2_CH9262		
Remark:			

No.	Frequency (MHz)	Reading (dBm)	Correction (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	3704.800	-67.05	8.35	-58.70	-13.00	-45.70	peak
2*	5557.200	-69.05	13.74	-55.31	-13.00	-42.31	peak

Standard:	FCC_P22.24.27_other	Test Site:	966 Chamber
Polarization:	Horizontal		
Test Mode:	3G_BAND 2_CH9400		
Remark:			

No.	Frequency (MHz)	Reading (dBm)	Correction (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	3760.000	-65.60	8.53	-57.07	-13.00	-44.07	peak
2*	5640.000	-67.75	13.90	-53.85	-13.00	-40.85	peak

Standard:	FCC_P22.24.27_other	Test Site:	966 Chamber
Polarization:	Vertical		
Test Mode:	3G_BAND 2_CH9400		
Remark:			

No.	Frequency (MHz)	Reading (dBm)	Correction (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	3760.000	-67.39	8.53	-58.86	-13.00	-45.86	peak
2*	5640.000	-68.04	13.90	-54.14	-13.00	-41.14	peak

Standard:	FCC_P22.24.27_other	Test Site:	966 Chamber
Polarization:	Horizontal		
Test Mode:	3G_BAND 2_CH9538		
Remark:			

No.	Frequency (MHz)	Reading (dBm)	Correction (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	3815.200	-66.64	8.72	-57.92	-13.00	-44.92	peak
2*	5722.800	-70.22	14.08	-56.14	-13.00	-43.14	peak

Standard:	FCC_P22.24.27_other	Test Site:	966 Chamber
Polarization:	Vertical		
Test Mode:	3G_BAND 2_CH9538		
Remark:			

No.	Frequency (MHz)	Reading (dBm)	Correction (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	3815.200	-66.80	8.72	-58.08	-13.00	-45.08	peak
2*	5722.800	-66.99	14.08	-52.91	-13.00	-39.91	peak

Standard:	FCC_P22.24.27_other	Test Site:	966 Chamber
Polarization:	Horizontal		
Test Mode:	3G_BAND 4_CH1312		
Remark:			

No.	Frequency (MHz)	Reading (dBm)	Correction (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	3424.800	-68.27	7.59	-60.68	-13.00	-47.68	peak
2*	5137.200	-69.29	12.65	-56.64	-13.00	-43.64	peak

Standard:	FCC_P22.24.27_other	Test Site:	966 Chamber
Polarization:	Vertical		
Test Mode:	3G_BAND 4_CH1312		
Remark:			

No.	Frequency (MHz)	Reading (dBm)	Correction (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	3424.800	-67.25	7.59	-59.66	-13.00	-46.66	peak
2*	5137.200	-69.13	12.65	-56.48	-13.00	-43.48	peak

Standard:	FCC_P22.24.27_other	Test Site:	966 Chamber
Polarization:	Horizontal		
Test Mode:	3G_BAND 4_CH1413		
Remark:			

No.	Frequency (MHz)	Reading (dBm)	Correction (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	3465.200	-67.40	7.63	-59.77	-13.00	-46.77	peak
2*	5197.800	-69.66	12.80	-56.86	-13.00	-43.86	peak

Standard:	FCC_P22.24.27_other	Test Site:	966 Chamber
Polarization:	Vertical		
Test Mode:	3G_BAND 4_CH1413		
Remark:			

No.	Frequency (MHz)	Reading (dBm)	Correction (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	3465.200	-68.39	7.63	-60.76	-13.00	-47.76	peak
2*	5197.800	-68.83	12.80	-56.03	-13.00	-43.03	peak

Standard:	FCC_P22.24.27_other	Test Site:	966 Chamber
Polarization:	Horizontal		
Test Mode:	3G_BAND 4_CH1513		
Remark:			

No.	Frequency (MHz)	Reading (dBm)	Correction (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	3505.200	-67.97	7.68	-60.29	-13.00	-47.29	peak
2*	5257.800	-69.66	12.96	-56.70	-13.00	-43.70	peak

Standard:	FCC_P22.24.27_other	Test Site:	966 Chamber
Polarization:	Vertical		
Test Mode:	3G_BAND 4_CH1513		
Remark:			

No.	Frequency (MHz)	Reading (dBm)	Correction (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	3505.200	-68.37	7.68	-60.69	-13.00	-47.69	peak
2*	5257.800	-69.36	12.96	-56.40	-13.00	-43.40	peak

Standard:	FCC_P22.24.27_other	Test Site:	966 Chamber
Polarization:	Horizontal		
Test Mode:	3G_BAND 5_CH4132		
Remark:			

No.	Frequency (MHz)	Reading (dBm)	Correction (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	1652.800	-64.93	2.58	-62.35	-13.00	-49.35	peak
2*	2479.200	-59.57	5.04	-54.53	-13.00	-41.53	peak

Standard:	FCC_P22.24.27_other	Test Site:	966 Chamber
Polarization:	Vertical		
Test Mode:	3G_BAND 5_CH4132		
Remark:			

No.	Frequency (MHz)	Reading (dBm)	Correction (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	1652.800	-64.52	2.58	-61.94	-13.00	-48.94	peak
2*	2479.200	-59.85	5.04	-54.81	-13.00	-41.81	peak

Standard:	FCC_P22.24.27_other	Test Site:	966 Chamber
Polarization:	Horizontal		
Test Mode:	3G_BAND 5_CH4183		
Remark:			

No.	Frequency (MHz)	Reading (dBm)	Correction (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	1673.200	-64.38	2.65	-61.73	-13.00	-48.73	peak
2*	2509.800	-65.85	5.15	-60.70	-13.00	-47.70	peak

Standard:	FCC_P22.24.27_other	Test Site:	966 Chamber
Polarization:	Vertical		
Test Mode:	3G_BAND 5_CH4183		
Remark:			

No.	Frequency (MHz)	Reading (dBm)	Correction (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	1673.200	-66.04	2.65	-63.39	-13.00	-50.39	peak
2*	2509.800	-66.62	5.15	-61.47	-13.00	-48.47	peak

Standard:	FCC_P22.24.27_other	Test Site:	966 Chamber
Polarization:	Horizontal		
Test Mode:	3G_BAND 5_CH4233		
Remark:			

No.	Frequency (MHz)	Reading (dBm)	Correction (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	1693.200	-64.96	2.70	-62.26	-13.00	-49.26	peak
2*	2539.800	-67.22	5.27	-61.95	-13.00	-48.95	peak

Standard:	FCC_P22.24.27_other	Test Site:	966 Chamber
Polarization:	Vertical		
Test Mode:	3G_BAND 5_CH4233		
Remark:			

No.	Frequency (MHz)	Reading (dBm)	Correction (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	1693.200	-64.84	2.70	-62.14	-13.00	-49.14	peak
2*	2539.800	-66.56	5.27	-61.29	-13.00	-48.29	peak

Standard:	FCC_P22.24.27_other	Test Site:	966 Chamber
Polarization:	Horizontal		
Test Mode:	4G_BAND 2_20M_QPSK_CH18700 1RB		
Remark:			

No.	Frequency (MHz)	Reading (dBm)	Correction (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	3720.000	-65.04	8.40	-56.64	-13.00	-43.64	peak
2*	5580.000	-68.99	13.77	-55.22	-13.00	-42.22	peak

Standard:	FCC_P22.24.27_other	Test Site:	966 Chamber
Polarization:	Vertical		
Test Mode:	4G_BAND 2_20M_QPSK_CH18700 1RB		
Remark:			

No.	Frequency (MHz)	Reading (dBm)	Correction (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	3720.000	-64.86	8.40	-56.46	-13.00	-43.46	peak
2*	5580.000	-68.38	13.77	-54.61	-13.00	-41.61	peak

Standard:	FCC_P22.24.27_other	Test Site:	966 Chamber
Polarization:	Horizontal		
Test Mode:	4G_BAND 2_20M_QPSK_CH18900 1RB		
Remark:			

No.	Frequency (MHz)	Reading (dBm)	Correction (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	3760.000	-64.30	8.53	-55.77	-13.00	-42.77	peak
2*	5640.000	-67.63	13.90	-53.73	-13.00	-40.73	peak

Standard:	FCC_P22.24.27_other	Test Site:	966 Chamber
Polarization:	Vertical		
Test Mode:	4G_BAND 2_20M_QPSK_CH18900 1RB		
Remark:			

No.	Frequency (MHz)	Reading (dBm)	Correction (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	3760.000	-64.79	8.53	-56.26	-13.00	-43.26	peak
2*	5640.000	-61.80	13.90	-47.90	-13.00	-34.90	peak

Standard:	FCC_P22.24.27_other	Test Site:	966 Chamber
Polarization:	Horizontal		
Test Mode:	4G_BAND 2_20M_QPSK_CH19100 1RB		
Remark:			

No.	Frequency (MHz)	Reading (dBm)	Correction (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	3800.000	-64.47	8.67	-55.80	-13.00	-42.80	peak
2*	5700.000	-69.10	14.03	-55.07	-13.00	-42.07	peak

Standard:	FCC_P22.24.27_other	Test Site:	966 Chamber
Polarization:	Vertical		
Test Mode:	4G_BAND 2_20M_QPSK_CH19100 1RB		
Remark:			

No.	Frequency (MHz)	Reading (dBm)	Correction (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	3800.000	-64.15	8.67	-55.48	-13.00	-42.48	peak
2*	5700.000	-68.95	14.03	-54.92	-13.00	-41.92	peak

Standard:	FCC_P22.24.27_other	Test Site:	966 Chamber
Polarization:	Horizontal		
Test Mode:	4G_BAND 4_20M_QPSK_CH20050 1RB		
Remark:			

No.	Frequency (MHz)	Reading (dBm)	Correction (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	3440.000	-66.71	7.61	-59.10	-13.00	-46.10	peak
2*	5160.000	-66.95	12.70	-54.25	-13.00	-41.25	peak

Standard:	FCC_P22.24.27_other	Test Site:	966 Chamber
Polarization:	Vertical		
Test Mode:	4G_BAND 4_20M_QPSK_CH20050 1RB		
Remark:			

No.	Frequency (MHz)	Reading (dBm)	Correction (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	3440.000	-65.91	7.61	-58.30	-13.00	-45.30	peak
2*	5160.000	-67.60	12.70	-54.90	-13.00	-41.90	peak

Standard:	FCC_P22.24.27_other	Test Site:	966 Chamber
Polarization:	Horizontal		
Test Mode:	4G_BAND 4_20M_QPSK_CH20175 1RB		
Remark:			

No.	Frequency (MHz)	Reading (dBm)	Correction (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	3465.000	-67.11	7.63	-59.48	-13.00	-46.48	peak
2*	5197.500	-64.45	12.80	-51.65	-13.00	-38.65	peak

Standard:	FCC_P22.24.27_other	Test Site:	966 Chamber
Polarization:	Vertical		
Test Mode:	4G_BAND 4_20M_QPSK_CH20175 1RB		
Remark:			

No.	Frequency (MHz)	Reading (dBm)	Correction (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	3465.000	-67.07	7.63	-59.44	-13.00	-46.44	peak
2*	5197.500	-66.79	12.80	-53.99	-13.00	-40.99	peak

Standard:	FCC_P22.24.27_other	Test Site:	966 Chamber
Polarization:	Horizontal		
Test Mode:	4G_BAND 4_20M_QPSK_CH20300 1RB		
Remark:			

No.	Frequency (MHz)	Reading (dBm)	Correction (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	3490.000	-66.75	7.66	-59.09	-13.00	-46.09	peak
2*	5235.000	-63.10	12.90	-50.20	-13.00	-37.20	peak

Standard:	FCC_P22.24.27_other	Test Site:	966 Chamber
Polarization:	Vertical		
Test Mode:	4G_BAND 4_20M_QPSK_CH20300 1RB		
Remark:			

No.	Frequency (MHz)	Reading (dBm)	Correction (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	3490.000	-67.58	7.66	-59.92	-13.00	-46.92	peak
2*	5235.000	-66.76	12.90	-53.86	-13.00	-40.86	peak

Standard:	FCC_P22.24.27_other	Test Site:	966 Chamber
Polarization:	Horizontal		
Test Mode:	4G_BAND 5_10M_QPSK_CH20450 1RB		
Remark:			

No.	Frequency (MHz)	Reading (dBm)	Correction (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	1658.000	-65.40	2.60	-62.80	-13.00	-49.80	peak
2	2487.000	-67.49	5.08	-62.41	-13.00	-49.41	peak
3*	3316.000	-66.82	7.45	-59.37	-13.00	-46.37	peak

Standard:	FCC_P22.24.27_other	Test Site:	966 Chamber
Polarization:	Vertical		
Test Mode:	4G_BAND 5_10M_QPSK_CH20450 1RB		
Remark:			

No.	Frequency (MHz)	Reading (dBm)	Correction (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	1658.000	-63.86	2.60	-61.26	-13.00	-48.26	peak
2	2487.000	-67.74	5.08	-62.66	-13.00	-49.66	peak
3*	3316.000	-66.17	7.45	-58.72	-13.00	-45.72	peak

Standard:	FCC_P22.24.27_other	Test Site:	966 Chamber
Polarization:	Horizontal		
Test Mode:	4G_BAND 5_10M_QPSK_CH20525 1RB		
Remark:			

No.	Frequency (MHz)	Reading (dBm)	Correction (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	1673.000	-64.30	2.65	-61.65	-13.00	-48.65	peak
2	2509.500	-69.14	5.15	-63.99	-13.00	-50.99	peak
3*	3346.000	-67.05	7.49	-59.56	-13.00	-46.56	peak

Standard:	FCC_P22.24.27_other	Test Site:	966 Chamber
Polarization:	Vertical		
Test Mode:	4G_BAND 5_10M_QPSK_CH20525 1RB		
Remark:			

No.	Frequency (MHz)	Reading (dBm)	Correction (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	1673.000	-63.67	2.65	-61.02	-13.00	-48.02	peak
2	2509.500	-68.49	5.15	-63.34	-13.00	-50.34	peak
3*	3346.000	-65.73	7.49	-58.24	-13.00	-45.24	peak

Standard:	FCC_P22.24.27_other	Test Site:	966 Chamber
Polarization:	Horizontal		
Test Mode:	4G_BAND 5_10M_QPSK_CH20600 1RB		
Remark:			

No.	Frequency (MHz)	Reading (dBm)	Correction (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	1688.000	-63.93	2.69	-61.24	-13.00	-48.24	peak
2	2532.000	-70.25	5.24	-65.01	-13.00	-52.01	peak
3*	3376.000	-64.92	7.52	-57.40	-13.00	-44.40	peak

Standard:	FCC_P22.24.27_other	Test Site:	966 Chamber
Polarization:	Vertical		
Test Mode:	4G_BAND 5_10M_QPSK_CH20600 1RB		
Remark:			

No.	Frequency (MHz)	Reading (dBm)	Correction (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	1688.000	-64.64	2.69	-61.95	-13.00	-48.95	peak
2	2532.000	-69.18	5.24	-63.94	-13.00	-50.94	peak
3*	3376.000	-66.69	7.52	-59.17	-13.00	-46.17	peak

Standard:	FCC_P22.24.27_other	Test Site:	966 Chamber
Polarization:	Horizontal		
Test Mode:	4G_BAND 7_20M_QPSK_CH20850 1RB		
Remark:			

No.	Frequency (MHz)	Reading (dBm)	Correction (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	5020.000	-68.86	12.32	-56.54	-25.00	-31.54	peak
2*	7530.000	-71.68	18.29	-53.39	-25.00	-28.39	peak

Standard:	FCC_P22.24.27_other	Test Site:	966 Chamber
Polarization:	Vertical		
Test Mode:	4G_BAND 7_20M_QPSK_CH20850 1RB		
Remark:			

No.	Frequency (MHz)	Reading (dBm)	Correction (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	5020.000	-68.18	12.32	-55.86	-25.00	-30.86	peak
2*	7530.000	-71.54	18.29	-53.25	-25.00	-28.25	peak

Standard:	FCC_P22.24.27_other	Test Site:	966 Chamber
Polarization:	Horizontal		
Test Mode:	4G_BAND 7_20M_QPSK_CH21100 1RB		
Remark:			

No.	Frequency (MHz)	Reading (dBm)	Correction (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	5070.000	-68.38	12.47	-55.91	-25.00	-30.91	peak
2*	7605.000	-71.53	18.61	-52.92	-25.00	-27.92	peak

Standard:	FCC_P22.24.27_other	Test Site:	966 Chamber
Polarization:	Vertical		
Test Mode:	4G_BAND 7_20M_QPSK_CH21100 1RB		
Remark:			

No.	Frequency (MHz)	Reading (dBm)	Correction (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	5070.000	-68.25	12.47	-55.78	-25.00	-30.78	peak
2*	7605.000	-71.06	18.61	-52.45	-25.00	-27.45	peak

Standard:	FCC_P22.24.27_other	Test Site:	966 Chamber
Polarization:	Horizontal		
Test Mode:	4G_BAND 7_20M_QPSK_CH21350 1RB		
Remark:			

No.	Frequency (MHz)	Reading (dBm)	Correction (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	5120.000	-67.79	12.60	-55.19	-25.00	-30.19	peak
2*	7680.000	-70.58	18.92	-51.66	-25.00	-26.66	peak

Standard:	FCC_P22.24.27_other	Test Site:	966 Chamber
Polarization:	Vertical		
Test Mode:	4G_BAND 7_20M_QPSK_CH21350 1RB		
Remark:			

No.	Frequency (MHz)	Reading (dBm)	Correction (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	5120.000	-69.33	12.60	-56.73	-25.00	-31.73	peak
2*	7680.000	-70.98	18.92	-52.06	-25.00	-27.06	peak

Standard:	FCC_P22.24.27_other	Test Site:	966 Chamber
Polarization:	Horizontal		
Test Mode:	4G_BAND 12_10M_QPSK_CH23060 1RB		
Remark:			

No.	Frequency (MHz)	Reading (dBm)	Correction (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	1408.000	-65.36	1.73	-63.63	-13.00	-50.63	peak
2	2112.000	-68.81	3.94	-64.87	-13.00	-51.87	peak
3*	2816.000	-64.97	6.34	-58.63	-13.00	-45.63	peak

Standard:	FCC_P22.24.27_other	Test Site:	966 Chamber
Polarization:	Vertical		
Test Mode:	4G_BAND 12_10M_QPSK_CH23060 1RB		
Remark:			

No.	Frequency (MHz)	Reading (dBm)	Correction (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	1408.000	-65.03	1.73	-63.30	-13.00	-50.30	peak
2	2112.000	-67.83	3.94	-63.89	-13.00	-50.89	peak
3*	2816.000	-64.56	6.34	-58.22	-13.00	-45.22	peak

Standard:	FCC_P22.24.27_other	Test Site:	966 Chamber
Polarization:	Horizontal		
Test Mode:	4G_BAND 12_10M_QPSK_CH23095 1RB		
Remark:			

No.	Frequency (MHz)	Reading (dBm)	Correction (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	1415.000	-65.74	1.77	-63.97	-13.00	-50.97	peak
2	2122.500	-67.64	3.98	-63.66	-13.00	-50.66	peak
3*	2830.000	-66.19	6.41	-59.78	-13.00	-46.78	peak

Standard:	FCC_P22.24.27_other	Test Site:	966 Chamber
Polarization:	Vertical		
Test Mode:	4G_BAND 12_10M_QPSK_CH23095 1RB		
Remark:			

No.	Frequency (MHz)	Reading (dBm)	Correction (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	1415.000	-65.79	1.77	-64.02	-13.00	-51.02	peak
2	2122.500	-68.08	3.98	-64.10	-13.00	-51.10	peak
3*	2830.000	-64.09	6.41	-57.68	-13.00	-44.68	peak

Standard:	FCC_P22.24.27_other	Test Site:	966 Chamber
Polarization:	Horizontal		
Test Mode:	4G_BAND 12_10M_QPSK_CH23130 1RB		
Remark:			

No.	Frequency (MHz)	Reading (dBm)	Correction (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	1422.000	-66.12	1.80	-64.32	-13.00	-51.32	peak
2	2133.000	-69.38	4.00	-65.38	-13.00	-52.38	peak
3*	2844.000	-65.35	6.46	-58.89	-13.00	-45.89	peak

Standard:	FCC_P22.24.27_other	Test Site:	966 Chamber
Polarization:	Vertical		
Test Mode:	4G_BAND 12_10M_QPSK_CH23130 1RB		
Remark:			

No.	Frequency (MHz)	Reading (dBm)	Correction (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	1422.000	-66.31	1.80	-64.51	-13.00	-51.51	peak
2	2133.000	-67.80	4.00	-63.80	-13.00	-50.80	peak
3*	2844.000	-66.91	6.46	-60.45	-13.00	-47.45	peak

Standard:	FCC_P22.24.27_other	Test Site:	966 Chamber
Polarization:	Horizontal		
Test Mode:	4G_BAND 13_10M_QPSK_CH23230		
Remark:			

No.	Frequency (MHz)	Reading (dBm)	Correction (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1*	1564.000	-61.37	2.32	-59.05	-40.00	-19.05	peak
2	2346.000	-56.89	4.64	-52.25	-13.00	-39.25	peak

Standard:	FCC_P22.24.27_other	Test Site:	966 Chamber
Polarization:	Vertical		
Test Mode:	4G_BAND 13_10M_QPSK_CH23230		
Remark:			

No.	Frequency (MHz)	Reading (dBm)	Correction (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1*	1564.000	-61.91	2.32	-59.59	-40.00	-19.59	peak
2	2346.000	-63.17	4.64	-58.53	-13.00	-45.53	peak

Standard:	FCC_P22.24.27_other	Test Site:	966 Chamber
Polarization:	Horizontal		
Test Mode:	4G_BAND 14_10M_QPSK_CH23330		
Remark:			

No.	Frequency (MHz)	Reading (dBm)	Correction (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	1586.000	-63.07	2.39	-60.68	-40.00	-20.68	peak
2*	2379.000	-56.55	4.74	-51.81	-13.00	-38.81	peak

Standard:	FCC_P22.24.27_other	Test Site:	966 Chamber
Polarization:	Vertical		
Test Mode:	4G_BAND 14_10M_QPSK_CH23330		
Remark:			

No.	Frequency (MHz)	Reading (dBm)	Correction (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	1586.000	-63.82	2.39	-61.43	-40.00	-21.43	peak
2*	2379.000	-40.74	4.74	-36.00	-13.00	-23.00	peak

Standard:	FCC_P22.24.27_other	Test Site:	966 Chamber
Polarization:	Horizontal		
Test Mode:	4G_BAND 26_10M_QPSK_CH26740 1RB		
Remark:			

No.	Frequency (MHz)	Reading (dBm)	Correction (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	1638.000	-62.31	2.54	-59.77	-13.00	-46.77	peak
2*	2457.000	-49.53	4.98	-44.55	-13.00	-31.55	peak

Standard:	FCC_P22.24.27_other	Test Site:	966 Chamber
Polarization:	Vertical		
Test Mode:	4G_BAND 26_10M_QPSK_CH26740 1RB		
Remark:			

No.	Frequency (MHz)	Reading (dBm)	Correction (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	1638.000	-63.46	2.54	-60.92	-13.00	-47.92	peak
2*	2457.000	-63.29	4.98	-58.31	-13.00	-45.31	peak

Standard:	FCC_P22.24.27_other	Test Site:	966 Chamber
Polarization:	Horizontal		
Test Mode:	4G_BAND 26_15M_QPSK_CH26765 1RB		
Remark:			

No.	Frequency (MHz)	Reading (dBm)	Correction (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	1643.000	-62.06	2.56	-59.50	-13.00	-46.50	peak
2*	2464.500	-63.25	5.00	-58.25	-13.00	-45.25	peak

Standard:	FCC_P22.24.27_other	Test Site:	966 Chamber
Polarization:	Vertical		
Test Mode:	4G_BAND 26_15M_QPSK_CH26765 1RB		
Remark:			

No.	Frequency (MHz)	Reading (dBm)	Correction (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	1643.000	-62.30	2.56	-59.74	-13.00	-46.74	peak
2*	2464.500	-64.62	5.00	-59.62	-13.00	-46.62	peak

Standard:	FCC_P22.24.27_other	Test Site:	966 Chamber
Polarization:	Horizontal		
Test Mode:	4G_BAND 26_15M_QPSK_CH26865 1RB		
Remark:			

No.	Frequency (MHz)	Reading (dBm)	Correction (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	1663.000	-62.65	2.63	-60.02	-13.00	-47.02	peak
2*	2494.500	-63.18	5.10	-58.08	-13.00	-45.08	peak

Standard:	FCC_P22.24.27_other	Test Site:	966 Chamber
Polarization:	Vertical		
Test Mode:	4G_BAND 26_15M_QPSK_CH26865 1RB		
Remark:			

No.	Frequency (MHz)	Reading (dBm)	Correction (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	1663.000	-63.58	2.63	-60.95	-13.00	-47.95	peak
2*	2494.500	-63.34	5.10	-58.24	-13.00	-45.24	peak

Standard:	FCC_P22.24.27_other	Test Site:	966 Chamber
Polarization:	Horizontal		
Test Mode:	4G_BAND 26_15M_QPSK_CH26965 1RB		
Remark:			

No.	Frequency (MHz)	Reading (dBm)	Correction (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	1683.000	-62.73	2.67	-60.06	-13.00	-47.06	peak
2*	2524.500	-60.94	5.21	-55.73	-13.00	-42.73	peak

Standard:	FCC_P22.24.27_other	Test Site:	966 Chamber
Polarization:	Vertical		
Test Mode:	4G_BAND 26_15M_QPSK_CH26965 1RB		
Remark:			

No.	Frequency (MHz)	Reading (dBm)	Correction (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	1683.000	-62.71	2.67	-60.04	-13.00	-47.04	peak
2*	2524.500	-62.26	5.21	-57.05	-13.00	-44.05	peak

Standard:	FCC_P22.24.27_other	Test Site:	966 Chamber
Polarization:	Horizontal		
Test Mode:	4G_BAND 26_15M_QPSK_CH26865 1RB		
Remark:			

No.	Frequency (MHz)	Reading (dBm)	Correction (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	1663.000	-63.44	2.63	-60.81	-13.00	-47.81	peak
2*	2494.500	-61.21	5.10	-56.11	-13.00	-43.11	peak

Standard:	FCC_P22.24.27_other	Test Site:	966 Chamber
Polarization:	Vertical		
Test Mode:	4G_BAND 26_15M_QPSK_CH26865 1RB		
Remark:			

No.	Frequency (MHz)	Reading (dBm)	Correction (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	1663.000	-62.91	2.63	-60.28	-13.00	-47.28	peak
2*	2494.500	-63.13	5.10	-58.03	-13.00	-45.03	peak

Standard:	FCC_P22.24.27_other	Test Site:	966 Chamber
Polarization:	Horizontal		
Test Mode:	4G_BAND 26_15M_QPSK_CH26915 1RB		
Remark:			

No.	Frequency (MHz)	Reading (dBm)	Correction (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	1673.000	-64.20	2.65	-61.55	-13.00	-48.55	peak
2*	2509.500	-57.34	5.15	-52.19	-13.00	-39.19	peak

Standard:	FCC_P22.24.27_other	Test Site:	966 Chamber
Polarization:	Vertical		
Test Mode:	4G_BAND 26_15M_QPSK_CH26915 1RB		
Remark:			

No.	Frequency (MHz)	Reading (dBm)	Correction (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	1673.000	-62.90	2.65	-60.25	-13.00	-47.25	peak
2*	2509.500	-61.55	5.15	-56.40	-13.00	-43.40	peak

Standard:	FCC_P22.24.27_other	Test Site:	966 Chamber
Polarization:	Horizontal		
Test Mode:	4G_BAND 26_15M_QPSK_CH26965 1RB		
Remark:			

No.	Frequency (MHz)	Reading (dBm)	Correction (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	1683.000	-64.28	2.67	-61.61	-13.00	-48.61	peak
2*	2524.500	-62.84	5.21	-57.63	-13.00	-44.63	peak

Standard:	FCC_P22.24.27_other	Test Site:	966 Chamber
Polarization:	Vertical		
Test Mode:	4G_BAND 26_15M_QPSK_CH26965 1RB		
Remark:			

No.	Frequency (MHz)	Reading (dBm)	Correction (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	1683.000	-61.40	2.67	-58.73	-13.00	-45.73	peak
2*	2524.500	-63.88	5.21	-58.67	-13.00	-45.67	peak

Standard:	FCC_P22.24.27_other	Test Site:	966 Chamber
Polarization:	Horizontal		
Test Mode:	4G_BAND 30_10M_QPSK_CH27710 1RB		
Remark:			

No.	Frequency (MHz)	Reading (dBm)	Correction (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	4620.000	-66.16	10.93	-55.23	-40.00	-15.23	peak
2*	6930.000	-69.59	17.34	-52.25	-40.00	-12.25	peak

Standard:	FCC_P22.24.27_other	Test Site:	966 Chamber
Polarization:	Vertical		
Test Mode:	4G_BAND 30_10M_QPSK_CH27710 1RB		
Remark:			

No.	Frequency (MHz)	Reading (dBm)	Correction (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	4620.000	-64.93	10.93	-54.00	-40.00	-14.00	peak
2*	6930.000	-69.04	17.34	-51.70	-40.00	-11.70	peak

Standard:	FCC_P22.24.27_other	Test Site:	966 Chamber
Polarization:	Horizontal		
Test Mode:	4G_BAND 38_20M_QPSK_CH37850 1RB		
Remark:			

No.	Frequency (MHz)	Reading (dBm)	Correction (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	5160.000	-66.30	12.70	-53.60	-13.00	-40.60	peak
2*	7740.000	-69.34	19.18	-50.16	-13.00	-37.16	peak

Standard:	FCC_P22.24.27_other	Test Site:	966 Chamber
Polarization:	Vertical		
Test Mode:	4G_BAND 38_20M_QPSK_CH37850 1RB		
Remark:			

No.	Frequency (MHz)	Reading (dBm)	Correction (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	5160.000	-67.54	12.70	-54.84	-13.00	-41.84	peak
2*	7740.000	-70.02	19.18	-50.84	-13.00	-37.84	peak

Standard:	FCC_P22.24.27_other	Test Site:	966 Chamber
Polarization:	Horizontal		
Test Mode:	4G_BAND 38_20M_QPSK_CH38000 1RB		
Remark:			

No.	Frequency (MHz)	Reading (dBm)	Correction (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	5190.000	-66.98	12.79	-54.19	-13.00	-41.19	peak
2*	7785.000	-69.66	19.37	-50.29	-13.00	-37.29	peak

Standard:	FCC_P22.24.27_other	Test Site:	966 Chamber
Polarization:	Vertical		
Test Mode:	4G_BAND 38_20M_QPSK_CH38000 1RB		
Remark:			

No.	Frequency (MHz)	Reading (dBm)	Correction (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	5190.000	-67.77	12.79	-54.98	-13.00	-41.98	peak
2*	7785.000	-69.85	19.37	-50.48	-13.00	-37.48	peak

Standard:	FCC_P22.24.27_other	Test Site:	966 Chamber
Polarization:	Horizontal		
Test Mode:	4G_BAND 38_20M_QPSK_CH38150 1RB		
Remark:			

No.	Frequency (MHz)	Reading (dBm)	Correction (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	5220.000	-68.31	12.87	-55.44	-13.00	-42.44	peak
2*	7830.000	-70.03	19.57	-50.46	-13.00	-37.46	peak

Standard:	FCC_P22.24.27_other	Test Site:	966 Chamber
Polarization:	Vertical		
Test Mode:	4G_BAND 38_20M_QPSK_CH38150 1RB		
Remark:			

No.	Frequency (MHz)	Reading (dBm)	Correction (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	5220.000	-66.99	12.87	-54.12	-13.00	-41.12	peak
2*	7830.000	-70.57	19.57	-51.00	-13.00	-38.00	peak

Standard:	FCC_P22.24.27_other	Test Site:	966 Chamber
Polarization:	Horizontal		
Test Mode:	4G_BAND 40_10M_QPSK_CH38750 1RB		
Remark:			

No.	Frequency (MHz)	Reading (dBm)	Correction (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	4620.000	-64.85	10.93	-53.92	-13.00	-40.92	peak
2*	6930.000	-69.12	17.34	-51.78	-13.00	-38.78	peak

Standard:	FCC_P22.24.27_other	Test Site:	966 Chamber
Polarization:	Vertical		
Test Mode:	4G_BAND 40_10M_QPSK_CH38750 1RB		
Remark:			

No.	Frequency (MHz)	Reading (dBm)	Correction (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	4620.000	-63.89	10.93	-52.96	-13.00	-39.96	peak
2*	6930.000	-68.01	17.34	-50.67	-13.00	-37.67	peak

Standard:	FCC_P22.24.27_other	Test Site:	966 Chamber
Polarization:	Horizontal		
Test Mode:	4G_BAND 40_10M_QPSK_CH39200 1RB		
Remark:			

No.	Frequency (MHz)	Reading (dBm)	Correction (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	4710.000	-65.97	11.25	-54.72	-13.00	-41.72	peak
2*	7065.000	-68.83	17.57	-51.26	-13.00	-38.26	peak

Standard:	FCC_P22.24.27_other	Test Site:	966 Chamber
Polarization:	Vertical		
Test Mode:	4G_BAND 40_10M_QPSK_CH39200 1RB		
Remark:			

No.	Frequency (MHz)	Reading (dBm)	Correction (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	4710.000	-67.01	11.25	-55.76	-13.00	-42.76	peak
2*	7065.000	-69.94	17.57	-52.37	-13.00	-39.37	peak

Standard:	FCC_P22.24.27_other	Test Site:	966 Chamber
Polarization:	Horizontal		
Test Mode:	4G_BAND 40_20M_QPSK_CH38750 1RB		
Remark:			

No.	Frequency (MHz)	Reading (dBm)	Correction (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	4620.000	-64.84	10.93	-53.91	-13.00	-40.91	peak
2*	6930.000	-67.68	17.34	-50.34	-13.00	-37.34	peak

Standard:	FCC_P22.24.27_other	Test Site:	966 Chamber
Polarization:	Vertical		
Test Mode:	4G_BAND 40_20M_QPSK_CH38750 1RB		
Remark:			

No.	Frequency (MHz)	Reading (dBm)	Correction (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	4620.000	-66.05	10.93	-55.12	-13.00	-42.12	peak
2*	6930.000	-69.93	17.34	-52.59	-13.00	-39.59	peak

Standard:	FCC_P22.24.27_other	Test Site:	966 Chamber
Polarization:	Horizontal		
Test Mode:	4G_BAND 40_20M_QPSK_CH39150 1RB		
Remark:			

No.	Frequency (MHz)	Reading (dBm)	Correction (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	4700.000	-66.83	11.21	-55.62	-13.00	-42.62	peak
2*	7050.000	-68.21	17.55	-50.66	-13.00	-37.66	peak

Standard:	FCC_P22.24.27_other	Test Site:	966 Chamber
Polarization:	Vertical		
Test Mode:	4G_BAND 40_20M_QPSK_CH39150 1RB		
Remark:			

No.	Frequency (MHz)	Reading (dBm)	Correction (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	4700.000	-67.12	11.21	-55.91	-13.00	-42.91	peak
2*	7050.000	-68.73	17.55	-51.18	-13.00	-38.18	peak

Standard:	FCC_P22.24.27_other	Test Site:	966 Chamber
Polarization:	Horizontal		
Test Mode:	4G_BAND 40_20M_QPSK_CH39550 1RB		
Remark:			

No.	Frequency (MHz)	Reading (dBm)	Correction (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	4780.000	-66.56	11.50	-55.06	-13.00	-42.06	peak
2*	7170.000	-68.23	17.71	-50.52	-13.00	-37.52	peak

Standard:	FCC_P22.24.27_other	Test Site:	966 Chamber
Polarization:	Vertical		
Test Mode:	4G_BAND 40_20M_QPSK_CH39550 1RB		
Remark:			

No.	Frequency (MHz)	Reading (dBm)	Correction (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	4780.000	-67.57	11.50	-56.07	-13.00	-43.07	peak
2*	7170.000	-69.87	17.71	-52.16	-13.00	-39.16	peak

Standard:	FCC_P22.24.27_other	Test Site:	966 Chamber
Polarization:	Horizontal		
Test Mode:	4G_BAND 41_20M_QPSK_CH39750 1RB		
Remark:			

No.	Frequency (MHz)	Reading (dBm)	Correction (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	5012.000	-68.23	12.31	-55.92	-25.00	-30.92	peak
2*	7518.000	-71.60	18.23	-53.37	-25.00	-28.37	peak

Standard:	FCC_P22.24.27_other	Test Site:	966 Chamber
Polarization:	Vertical		
Test Mode:	4G_BAND 41_20M_QPSK_CH39750 1RB		
Remark:			

No.	Frequency (MHz)	Reading (dBm)	Correction (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	5012.000	-67.29	12.31	-54.98	-25.00	-29.98	peak
2*	7518.000	-71.11	18.23	-52.88	-25.00	-27.88	peak

Standard:	FCC_P22.24.27_other	Test Site:	966 Chamber
Polarization:	Horizontal		
Test Mode:	4G_BAND 41_20M_QPSK_CH40620 1RB		
Remark:			

No.	Frequency (MHz)	Reading (dBm)	Correction (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	5186.000	-68.27	12.77	-55.50	-25.00	-30.50	peak
2*	7779.000	-71.35	19.35	-52.00	-25.00	-27.00	peak

Standard:	FCC_P22.24.27_other	Test Site:	966 Chamber
Polarization:	Vertical		
Test Mode:	4G_BAND 41_20M_QPSK_CH40620 1RB		
Remark:			

No.	Frequency (MHz)	Reading (dBm)	Correction (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	5186.000	-68.24	12.77	-55.47	-25.00	-30.47	peak
2*	7779.000	-70.87	19.35	-51.52	-25.00	-26.52	peak

Standard:	FCC_P22.24.27_other	Test Site:	966 Chamber
Polarization:	Horizontal		
Test Mode:	4G_BAND 41_20M_QPSK_CH41490 1RB		
Remark:			

No.	Frequency (MHz)	Reading (dBm)	Correction (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	5360.000	-69.24	13.24	-56.00	-25.00	-31.00	peak
2*	8040.000	-71.32	20.39	-50.93	-25.00	-25.93	peak

Standard:	FCC_P22.24.27_other	Test Site:	966 Chamber
Polarization:	Vertical		
Test Mode:	4G_BAND 41_20M_QPSK_CH41490 1RB		
Remark:			

No.	Frequency (MHz)	Reading (dBm)	Correction (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	5360.000	-68.56	13.24	-55.32	-25.00	-30.32	peak
2*	8040.000	-71.49	20.39	-51.10	-25.00	-26.10	peak

Standard:	FCC_P22.24.27_other	Test Site:	966 Chamber
Polarization:	Horizontal		
Test Mode:	4G_BAND 25_20M_QPSK_CH26140		
Remark:			

No.	Frequency (MHz)	Reading (dBm)	Correction (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	3720.000	-65.58	8.40	-57.18	-13.00	-44.18	peak
2*	5580.000	-69.07	13.77	-55.30	-13.00	-42.30	peak

Standard:	FCC_P22.24.27_other	Test Site:	966 Chamber
Polarization:	Vertical		
Test Mode:	4G_BAND 25_20M_QPSK_CH26140		
Remark:			

No.	Frequency (MHz)	Reading (dBm)	Correction (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	3720.000	-65.63	8.40	-57.23	-13.00	-44.23	peak
2*	5580.000	-69.82	13.77	-56.05	-13.00	-43.05	peak

Standard:	FCC_P22.24.27_other	Test Site:	966 Chamber
Polarization:	Horizontal		
Test Mode:	4G_BAND 25_20M_QPSK_CH26365		
Remark:			

No.	Frequency (MHz)	Reading (dBm)	Correction (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	3765.000	-65.29	8.55	-56.74	-13.00	-43.74	peak
2*	5647.500	-68.93	13.92	-55.01	-13.00	-42.01	peak

Standard:	FCC_P22.24.27_other	Test Site:	966 Chamber
Polarization:	Vertical		
Test Mode:	4G_BAND 25_20M_QPSK_CH26365		
Remark:			

No.	Frequency (MHz)	Reading (dBm)	Correction (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	3765.000	-64.81	8.55	-56.26	-13.00	-43.26	peak
2*	5647.500	-64.81	13.92	-50.89	-13.00	-37.89	peak

Standard:	FCC_P22.24.27_other	Test Site:	966 Chamber
Polarization:	Horizontal		
Test Mode:	4G_BAND 25_20M_QPSK_CH26590		
Remark:			

No.	Frequency (MHz)	Reading (dBm)	Correction (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	3810.000	-65.79	8.70	-57.09	-13.00	-44.09	peak
2*	5715.000	-69.75	14.07	-55.68	-13.00	-42.68	peak

Standard:	FCC_P22.24.27_other	Test Site:	966 Chamber
Polarization:	Vertical		
Test Mode:	4G_BAND 25_20M_QPSK_CH26590		
Remark:			

No.	Frequency (MHz)	Reading (dBm)	Correction (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	3810.000	-65.47	8.70	-56.77	-13.00	-43.77	peak
2*	5715.000	-69.35	14.07	-55.28	-13.00	-42.28	peak

Standard:	FCC_P22.24.27_other	Test Site:	966 Chamber
Polarization:	Horizontal		
Test Mode:	4G_BAND 42_20M_QPSK_CH41690 1RB		
Remark:			

No.	Frequency (MHz)	Reading (dBm)	Correction (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	6820.000	-68.63	17.11	-51.52	-13.00	-38.52	peak
2*	10230.000	-72.16	25.51	-46.65	-13.00	-33.65	peak

Standard:	FCC_P22.24.27_other	Test Site:	966 Chamber
Polarization:	Vertical		
Test Mode:	4G_BAND 42_20M_QPSK_CH41690 1RB		
Remark:			

No.	Frequency (MHz)	Reading (dBm)	Correction (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	6820.000	-70.93	17.11	-53.82	-13.00	-40.82	peak
2*	10230.000	-72.55	25.51	-47.04	-13.00	-34.04	peak

Standard:	FCC_P22.24.27_other	Test Site:	966 Chamber
Polarization:	Horizontal		
Test Mode:	4G_BAND 42_20M_QPSK_CH42590 1RB		
Remark:			

No.	Frequency (MHz)	Reading (dBm)	Correction (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	7000.000	-70.52	17.48	-53.04	-13.00	-40.04	peak
2*	10500.000	-72.33	26.18	-46.15	-13.00	-33.15	peak

Standard:	FCC_P22.24.27_other	Test Site:	966 Chamber
Polarization:	Vertical		
Test Mode:	4G_BAND 42_20M_QPSK_CH42590 1RB		
Remark:			

No.	Frequency (MHz)	Reading (dBm)	Correction (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	7000.000	-69.68	17.48	-52.20	-13.00	-39.20	peak
2*	10500.000	-72.20	26.18	-46.02	-13.00	-33.02	peak

Standard:	FCC_P22.24.27_other	Test Site:	966 Chamber
Polarization:	Horizontal		
Test Mode:	4G_BAND 42_20M_QPSK_CH43490 1RB		
Remark:			

No.	Frequency (MHz)	Reading (dBm)	Correction (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	7180.000	-70.09	17.72	-52.37	-13.00	-39.37	peak
2*	10770.000	-72.44	26.18	-46.26	-13.00	-33.26	peak

Standard:	FCC_P22.24.27_other	Test Site:	966 Chamber
Polarization:	Vertical		
Test Mode:	4G_BAND 42_20M_QPSK_CH43490 1RB		
Remark:			

No.	Frequency (MHz)	Reading (dBm)	Correction (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	7180.000	-68.85	17.72	-51.13	-13.00	-38.13	peak
2*	10770.000	-70.77	26.18	-44.59	-13.00	-31.59	peak

Standard:	FCC_P22.24.27_other	Test Site:	966 Chamber
Polarization:	Horizontal		
Test Mode:	4G_BAND 42_20M_QPSK_CH42190 1RB		
Remark:			

No.	Frequency (MHz)	Reading (dBm)	Correction (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	6920.000	-71.45	17.32	-54.13	-13.00	-41.13	peak
2*	10380.000	-70.83	25.88	-44.95	-13.00	-31.95	peak

Standard:	FCC_P22.24.27_other	Test Site:	966 Chamber
Polarization:	Vertical		
Test Mode:	4G_BAND 42_20M_QPSK_CH42190 1RB		
Remark:			

No.	Frequency (MHz)	Reading (dBm)	Correction (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	6920.000	-70.52	17.32	-53.20	-13.00	-40.20	peak
2*	10380.000	-72.45	25.88	-46.57	-13.00	-33.57	peak

Standard:	FCC_P22.24.27_other	Test Site:	966 Chamber
Polarization:	Horizontal		
Test Mode:	4G_BAND 42_20M_QPSK_CH42590 1RB		
Remark:			

No.	Frequency (MHz)	Reading (dBm)	Correction (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	7000.000	-71.35	17.48	-53.87	-13.00	-40.87	peak
2*	10500.000	-72.77	26.18	-46.59	-13.00	-33.59	peak

Standard:	FCC_P22.24.27_other	Test Site:	966 Chamber
Polarization:	Vertical		
Test Mode:	4G_BAND 42_20M_QPSK_CH42590 1RB		
Remark:			

No.	Frequency (MHz)	Reading (dBm)	Correction (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	7000.000	-71.19	17.48	-53.71	-13.00	-40.71	peak
2*	10500.000	-73.31	26.18	-47.13	-13.00	-34.13	peak

Standard:	FCC_P22.24.27_other	Test Site:	966 Chamber
Polarization:	Horizontal		
Test Mode:	4G_BAND 42_20M_QPSK_CH42990 1RB		
Remark:			

No.	Frequency (MHz)	Reading (dBm)	Correction (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	7080.000	-69.92	17.58	-52.34	-13.00	-39.34	peak
2*	10620.000	-72.54	26.19	-46.35	-13.00	-33.35	peak

Standard:	FCC_P22.24.27_other	Test Site:	966 Chamber
Polarization:	Vertical		
Test Mode:	4G_BAND 42_20M_QPSK_CH42990 1RB		
Remark:			

No.	Frequency (MHz)	Reading (dBm)	Correction (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	7080.000	-71.35	17.58	-53.77	-13.00	-40.77	peak
2*	10620.000	-73.07	26.19	-46.88	-13.00	-33.88	peak

Standard:	FCC_P22.24.27_other	Test Site:	966 Chamber
Polarization:	Horizontal		
Test Mode:	4G_BAND 42_20M_QPSK_CH43190 1RB		
Remark:			

No.	Frequency (MHz)	Reading (dBm)	Correction (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	7120.000	-71.29	17.64	-53.65	-13.00	-40.65	peak
2*	10680.000	-72.91	26.18	-46.73	-13.00	-33.73	peak

Standard:	FCC_P22.24.27_other	Test Site:	966 Chamber
Polarization:	Vertical		
Test Mode:	4G_BAND 42_20M_QPSK_CH43190 1RB		
Remark:			

No.	Frequency (MHz)	Reading (dBm)	Correction (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	7120.000	-70.39	17.64	-52.75	-13.00	-39.75	peak
2*	10680.000	-72.83	26.18	-46.65	-13.00	-33.65	peak

Standard:	FCC_P22.24.27_other	Test Site:	966 Chamber
Polarization:	Horizontal		
Test Mode:	4G_BAND 42_20M_QPSK_CH43340 1RB		
Remark:			

No.	Frequency (MHz)	Reading (dBm)	Correction (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	7150.000	-71.14	17.69	-53.45	-13.00	-40.45	peak
2*	10725.000	-72.85	26.18	-46.67	-13.00	-33.67	peak

Standard:	FCC_P22.24.27_other	Test Site:	966 Chamber
Polarization:	Vertical		
Test Mode:	4G_BAND 42_20M_QPSK_CH43340 1RB		
Remark:			

No.	Frequency (MHz)	Reading (dBm)	Correction (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	7150.000	-71.54	17.69	-53.85	-13.00	-40.85	peak
2*	10725.000	-72.57	26.18	-46.39	-13.00	-33.39	peak

Standard:	FCC_P22.24.27_other	Test Site:	966 Chamber
Polarization:	Horizontal		
Test Mode:	4G_BAND 42_20M_QPSK_CH43490 1RB		
Remark:			

No.	Frequency (MHz)	Reading (dBm)	Correction (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	7180.000	-71.25	17.72	-53.53	-13.00	-40.53	peak
2*	10770.000	-73.30	26.18	-47.12	-13.00	-34.12	peak

Standard:	FCC_P22.24.27_other	Test Site:	966 Chamber
Polarization:	Vertical		
Test Mode:	4G_BAND 42_20M_QPSK_CH43490 1RB		
Remark:			

No.	Frequency (MHz)	Reading (dBm)	Correction (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	7180.000	-70.05	17.72	-52.33	-13.00	-39.33	peak
2*	10770.000	-73.13	26.18	-46.95	-13.00	-33.95	peak

Standard:	FCC_P22.24.27_other	Test Site:	966 Chamber
Polarization:	Horizontal		
Test Mode:	4G_BAND 43_20M_QPSK_CH43690 1RB		
Remark:			

No.	Frequency (MHz)	Reading (dBm)	Correction (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	7220.000	-70.62	17.78	-52.84	-13.00	-39.84	peak
2*	10830.000	-73.70	26.19	-47.51	-13.00	-34.51	peak

Standard:	FCC_P22.24.27_other	Test Site:	966 Chamber
Polarization:	Vertical		
Test Mode:	4G_BAND 43_20M_QPSK_CH43690 1RB		
Remark:			

No.	Frequency (MHz)	Reading (dBm)	Correction (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	7220.000	-70.93	17.78	-53.15	-13.00	-40.15	peak
2*	10830.000	-72.46	26.19	-46.27	-13.00	-33.27	peak

Standard:	FCC_P22.24.27_other	Test Site:	966 Chamber
Polarization:	Horizontal		
Test Mode:	4G_BAND 43_20M_QPSK_CH44590 1RB		
Remark:			

No.	Frequency (MHz)	Reading (dBm)	Correction (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	7400.000	-70.37	18.02	-52.35	-13.00	-39.35	peak
2*	11100.000	-71.98	26.31	-45.67	-13.00	-32.67	peak

Standard:	FCC_P22.24.27_other	Test Site:	966 Chamber
Polarization:	Vertical		
Test Mode:	4G_BAND 43_20M_QPSK_CH44590 1RB		
Remark:			

No.	Frequency (MHz)	Reading (dBm)	Correction (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	7400.000	-69.79	18.02	-51.77	-13.00	-38.77	peak
2*	11100.000	-72.00	26.31	-45.69	-13.00	-32.69	peak

Standard:	FCC_P22.24.27_other	Test Site:	966 Chamber
Polarization:	Horizontal		
Test Mode:	4G_BAND 43_20M_QPSK_CH45490 1RB		
Remark:			

No.	Frequency (MHz)	Reading (dBm)	Correction (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	7580.000	-70.63	18.50	-52.13	-13.00	-39.13	peak
2*	11370.000	-72.66	26.61	-46.05	-13.00	-33.05	peak

Standard:	FCC_P22.24.27_other	Test Site:	966 Chamber
Polarization:	Vertical		
Test Mode:	4G_BAND 43_20M_QPSK_CH45490 1RB		
Remark:			

No.	Frequency (MHz)	Reading (dBm)	Correction (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	7580.000	-70.73	18.50	-52.23	-13.00	-39.23	peak
2*	11370.000	-72.93	26.61	-46.32	-13.00	-33.32	peak

Standard:	FCC_P22.24.27_other	Test Site:	966 Chamber
Polarization:	Horizontal		
Test Mode:	4G_BAND 43_20M_QPSK_CH43690 1RB		
Remark:			

No.	Frequency (MHz)	Reading (dBm)	Correction (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	7220.000	-70.23	17.78	-52.45	-13.00	-39.45	peak
2*	10830.000	-73.03	26.19	-46.84	-13.00	-33.84	peak

Standard:	FCC_P22.24.27_other	Test Site:	966 Chamber
Polarization:	Vertical		
Test Mode:	4G_BAND 43_20M_QPSK_CH43690 1RB		
Remark:			

No.	Frequency (MHz)	Reading (dBm)	Correction (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	7220.000	-70.29	17.78	-52.51	-13.00	-39.51	peak
2*	10830.000	-72.97	26.19	-46.78	-13.00	-33.78	peak

Standard:	FCC_P22.24.27_other	Test Site:	966 Chamber
Polarization:	Horizontal		
Test Mode:	4G_BAND 43_20M_QPSK_CH44090 1RB		
Remark:			

No.	Frequency (MHz)	Reading (dBm)	Correction (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	7300.000	-71.86	17.88	-53.98	-13.00	-40.98	peak
2*	10950.000	-73.17	26.19	-46.98	-13.00	-33.98	peak

Standard:	FCC_P22.24.27_other	Test Site:	966 Chamber
Polarization:	Vertical		
Test Mode:	4G_BAND 43_20M_QPSK_CH44090 1RB		
Remark:			

No.	Frequency (MHz)	Reading (dBm)	Correction (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	7300.000	-70.70	17.88	-52.82	-13.00	-39.82	peak
2*	10950.000	-73.21	26.19	-47.02	-13.00	-34.02	peak

Standard:	FCC_P22.24.27_other	Test Site:	966 Chamber
Polarization:	Horizontal		
Test Mode:	4G_BAND 43_20M_QPSK_CH44490 1RB		
Remark:			

No.	Frequency (MHz)	Reading (dBm)	Correction (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	7380.000	-71.52	18.00	-53.52	-13.00	-40.52	peak
2*	11070.000	-73.75	26.27	-47.48	-13.00	-34.48	peak

Standard:	FCC_P22.24.27_other	Test Site:	966 Chamber
Polarization:	Vertical		
Test Mode:	4G_BAND 43_20M_QPSK_CH44490 1RB		
Remark:			

No.	Frequency (MHz)	Reading (dBm)	Correction (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	7380.000	-72.46	18.00	-54.46	-13.00	-41.46	peak
2*	11070.000	-73.40	26.27	-47.13	-13.00	-34.13	peak

Standard:	FCC_P22.24.27_other	Test Site:	966 Chamber
Polarization:	Horizontal		
Test Mode:	4G_BAND 48_20M_QPSK_CH55340 1RB		
Remark:			

No.	Frequency (MHz)	Reading (dBm)	Correction (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	7120.000	-70.94	17.64	-53.30	-13.00	-40.30	peak
2*	10680.000	-73.36	26.18	-47.18	-13.00	-34.18	peak

Standard:	FCC_P22.24.27_other	Test Site:	966 Chamber
Polarization:	Vertical		
Test Mode:	4G_BAND 48_20M_QPSK_CH55340 1RB		
Remark:			

No.	Frequency (MHz)	Reading (dBm)	Correction (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	7120.000	-70.15	17.64	-52.51	-13.00	-39.51	peak
2*	10680.000	-73.40	26.18	-47.22	-13.00	-34.22	peak

Standard:	FCC_P22.24.27_other	Test Site:	966 Chamber
Polarization:	Horizontal		
Test Mode:	4G_BAND 48_20M_QPSK_CH55990 1RB		
Remark:			

No.	Frequency (MHz)	Reading (dBm)	Correction (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	7250.000	-72.01	17.82	-54.19	-13.00	-41.19	peak
2*	10875.000	-73.17	26.19	-46.98	-13.00	-33.98	peak

Standard:	FCC_P22.24.27_other	Test Site:	966 Chamber
Polarization:	Vertical		
Test Mode:	4G_BAND 48_20M_QPSK_CH55990 1RB		
Remark:			

No.	Frequency (MHz)	Reading (dBm)	Correction (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	7250.000	-71.56	17.82	-53.74	-13.00	-40.74	peak
2*	10875.000	-73.20	26.19	-47.01	-13.00	-34.01	peak

Standard:	FCC_P22.24.27_other	Test Site:	966 Chamber
Polarization:	Horizontal		
Test Mode:	4G_BAND 48_20M_QPSK_CH56640 1RB		
Remark:			

No.	Frequency (MHz)	Reading (dBm)	Correction (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	7380.000	-71.62	18.00	-53.62	-13.00	-40.62	peak
2*	11070.000	-73.17	26.27	-46.90	-13.00	-33.90	peak

Standard:	FCC_P22.24.27_other	Test Site:	966 Chamber
Polarization:	Vertical		
Test Mode:	4G_BAND 48_20M_QPSK_CH56640 1RB		
Remark:			

No.	Frequency (MHz)	Reading (dBm)	Correction (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	7380.000	-71.79	18.00	-53.79	-13.00	-40.79	peak
2*	11070.000	-73.23	26.27	-46.96	-13.00	-33.96	peak

Standard:	FCC_P22.24.27_other	Test Site:	966 Chamber
Polarization:	Horizontal		
Test Mode:	4G_BAND 66_20M_QPSK_CH132072 1RB		
Remark:			

No.	Frequency (MHz)	Reading (dBm)	Correction (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	3440.000	-67.26	7.61	-59.65	-13.00	-46.65	peak
2*	5160.000	-68.04	12.70	-55.34	-13.00	-42.34	peak

Standard:	FCC_P22.24.27_other	Test Site:	966 Chamber
Polarization:	Vertical		
Test Mode:	4G_BAND 66_20M_QPSK_CH132072 1RB		
Remark:			

No.	Frequency (MHz)	Reading (dBm)	Correction (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	3440.000	-68.40	7.61	-60.79	-13.00	-47.79	peak
2*	5160.000	-68.69	12.70	-55.99	-13.00	-42.99	peak

Standard:	FCC_P22.24.27_other	Test Site:	966 Chamber
Polarization:	Horizontal		
Test Mode:	4G_BAND 66_20M_QPSK_CH132322 1RB		
Remark:			

No.	Frequency (MHz)	Reading (dBm)	Correction (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	3490.000	-68.10	7.66	-60.44	-13.00	-47.44	peak
2*	5235.000	-68.02	12.90	-55.12	-13.00	-42.12	peak

Standard:	FCC_P22.24.27_other	Test Site:	966 Chamber
Polarization:	Vertical		
Test Mode:	4G_BAND 66_20M_QPSK_CH132322 1RB		
Remark:			

No.	Frequency (MHz)	Reading (dBm)	Correction (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	3490.000	-68.48	7.66	-60.82	-13.00	-47.82	peak
2*	5235.000	-68.11	12.90	-55.21	-13.00	-42.21	peak

Standard:	FCC_P22.24.27_other	Test Site:	966 Chamber
Polarization:	Horizontal		
Test Mode:	4G_BAND 66_20M_QPSK_CH132572 1RB		
Remark:			

No.	Frequency (MHz)	Reading (dBm)	Correction (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	3540.000	-67.80	7.80	-60.00	-13.00	-47.00	peak
2*	5310.000	-68.40	13.09	-55.31	-13.00	-42.31	peak

Standard:	FCC_P22.24.27_other	Test Site:	966 Chamber
Polarization:	Vertical		
Test Mode:	4G_BAND 66_20M_QPSK_CH132572 1RB		
Remark:			

No.	Frequency (MHz)	Reading (dBm)	Correction (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	3540.000	-66.43	7.80	-58.63	-13.00	-45.63	peak
2*	5310.000	-69.85	13.09	-56.76	-13.00	-43.76	peak

Standard:	FCC_P22.24.27_other	Test Site:	966 Chamber
Polarization:	Horizontal		
Test Mode:	4G_BAND 71_20M_QPSK_CH133222 1RB		
Remark:			

No.	Frequency (MHz)	Reading (dBm)	Correction (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	1346.000	-62.65	1.48	-61.17	-13.00	-48.17	peak
2	2019.000	-67.09	3.65	-63.44	-13.00	-50.44	peak
3*	2692.000	-64.56	5.86	-58.70	-13.00	-45.70	peak

Standard:	FCC_P22.24.27_other	Test Site:	966 Chamber
Polarization:	Vertical		
Test Mode:	4G_BAND 71_20M_QPSK_CH133222 1RB		
Remark:			

No.	Frequency (MHz)	Reading (dBm)	Correction (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	1346.000	-63.48	1.48	-62.00	-13.00	-49.00	peak
2	2019.000	-67.38	3.65	-63.73	-13.00	-50.73	peak
3*	2692.000	-64.13	5.86	-58.27	-13.00	-45.27	peak

Standard:	FCC_P22.24.27_other	Test Site:	966 Chamber
Polarization:	Horizontal		
Test Mode:	4G_BAND 71_20M_QPSK_CH133322 1RB		
Remark:			

No.	Frequency (MHz)	Reading (dBm)	Correction (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	1366.000	-64.89	1.57	-63.32	-13.00	-50.32	peak
2	2049.000	-69.65	3.74	-65.91	-13.00	-52.91	peak
3*	2732.000	-66.88	6.02	-60.86	-13.00	-47.86	peak

Standard:	FCC_P22.24.27_other	Test Site:	966 Chamber
Polarization:	Vertical		
Test Mode:	4G_BAND 71_20M_QPSK_CH133322 1RB		
Remark:			

No.	Frequency (MHz)	Reading (dBm)	Correction (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	1366.000	-63.97	1.57	-62.40	-13.00	-49.40	peak
2	2049.000	-68.46	3.74	-64.72	-13.00	-51.72	peak
3*	2732.000	-65.73	6.02	-59.71	-13.00	-46.71	peak

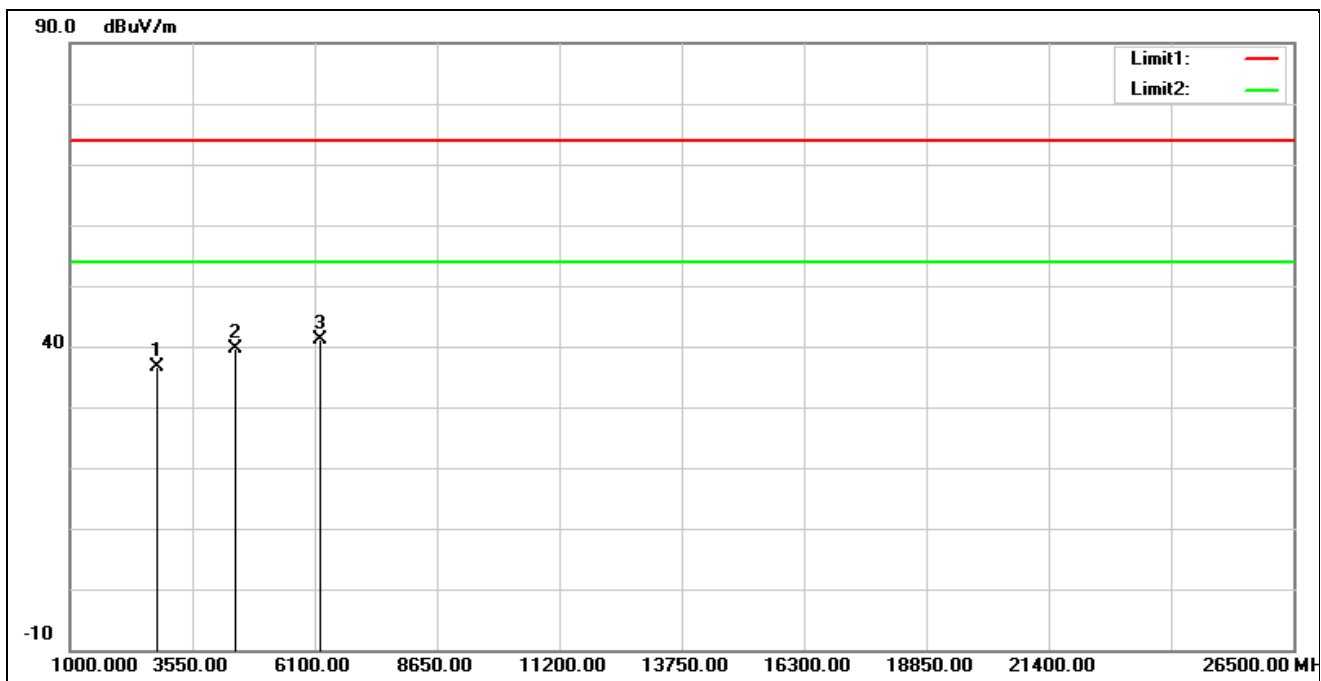
Standard:	FCC_P22.24.27_other	Test Site:	966 Chamber
Polarization:	Horizontal		
Test Mode:	4G_BAND 71_20M_QPSK_CH133372 1RB		
Remark:			

No.	Frequency (MHz)	Reading (dBm)	Correction (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	1376.000	-64.49	1.61	-62.88	-13.00	-49.88	peak
2	2064.000	-69.47	3.80	-65.67	-13.00	-52.67	peak
3*	2752.000	-65.41	6.11	-59.30	-13.00	-46.30	peak

Standard:	FCC_P22.24.27_other	Test Site:	966 Chamber
Polarization:	Vertical		
Test Mode:	4G_BAND 71_20M_QPSK_CH133372 1RB		
Remark:			

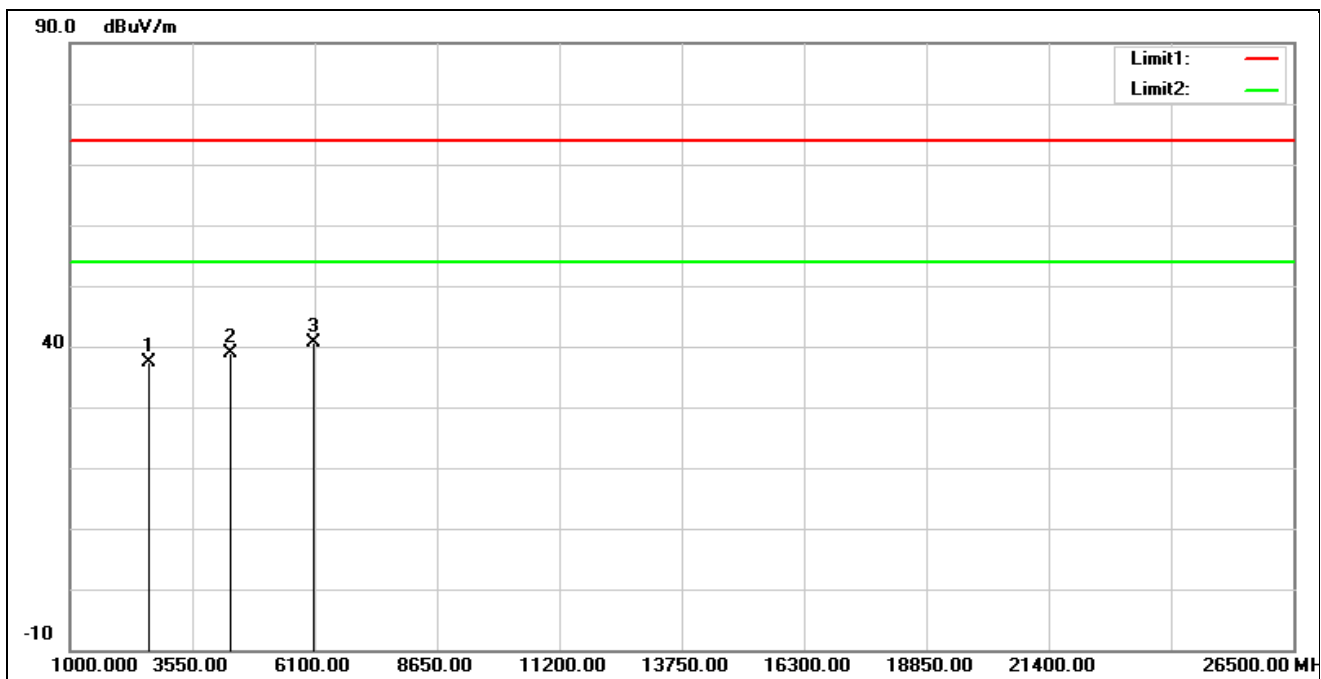
No.	Frequency (MHz)	Reading (dBm)	Correction (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	1376.000	-64.61	1.61	-63.00	-13.00	-50.00	peak
2	2064.000	-70.41	3.80	-66.61	-13.00	-53.61	peak
3*	2752.000	-66.20	6.11	-60.09	-13.00	-47.09	peak

Standard:	Part 15C	Test Site:	966 Chamber
Polarization:	Horizontal		
Test Mode:	2G GSM+WLAN 2.4GHz		
Remark:			



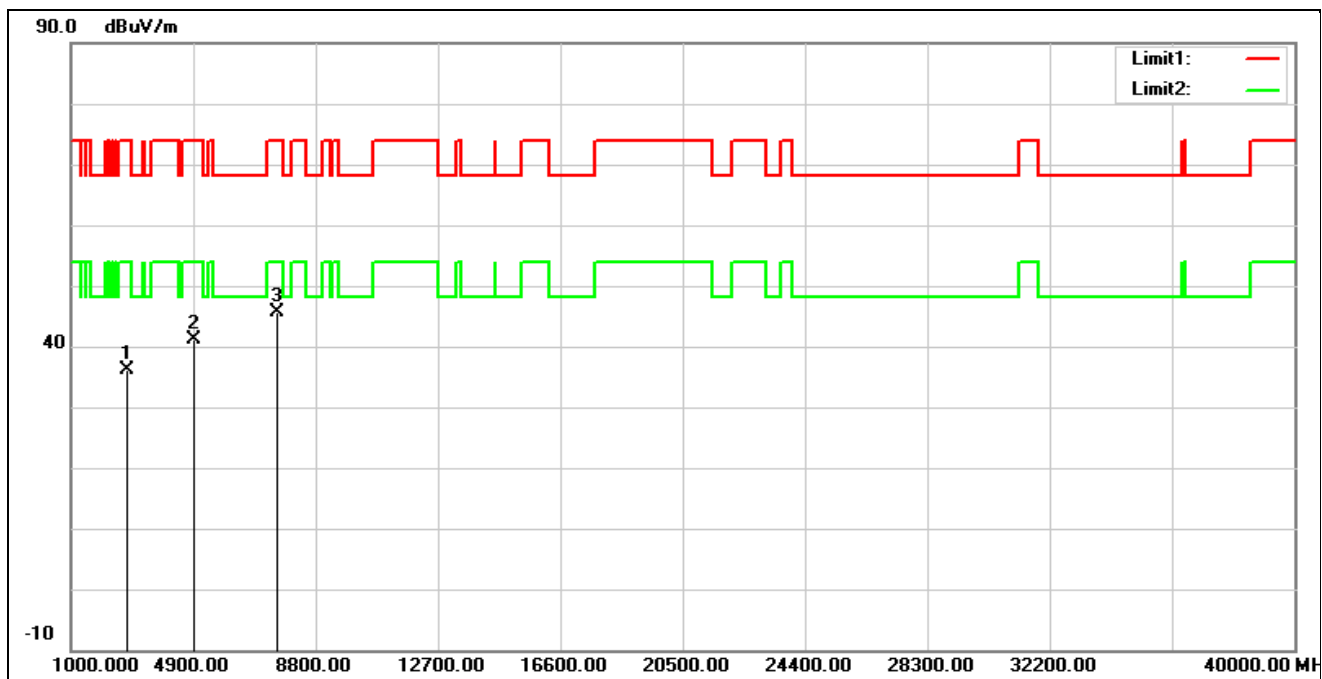
No.	Frequency (MHz)	Reading (dBuV)	Correction (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2819.000	42.08	-5.46	36.62	74.00	-37.38	peak
2	4451.000	40.89	-1.31	39.58	74.00	-34.42	peak
3*	6202.000	37.34	3.70	41.04	74.00	-32.96	peak

Standard:	Part 15C	Test Site:	966 Chamber
Polarization:	Vertical		
Test Mode:	2G GSM+WLAN 2.4GHz		
Remark:			



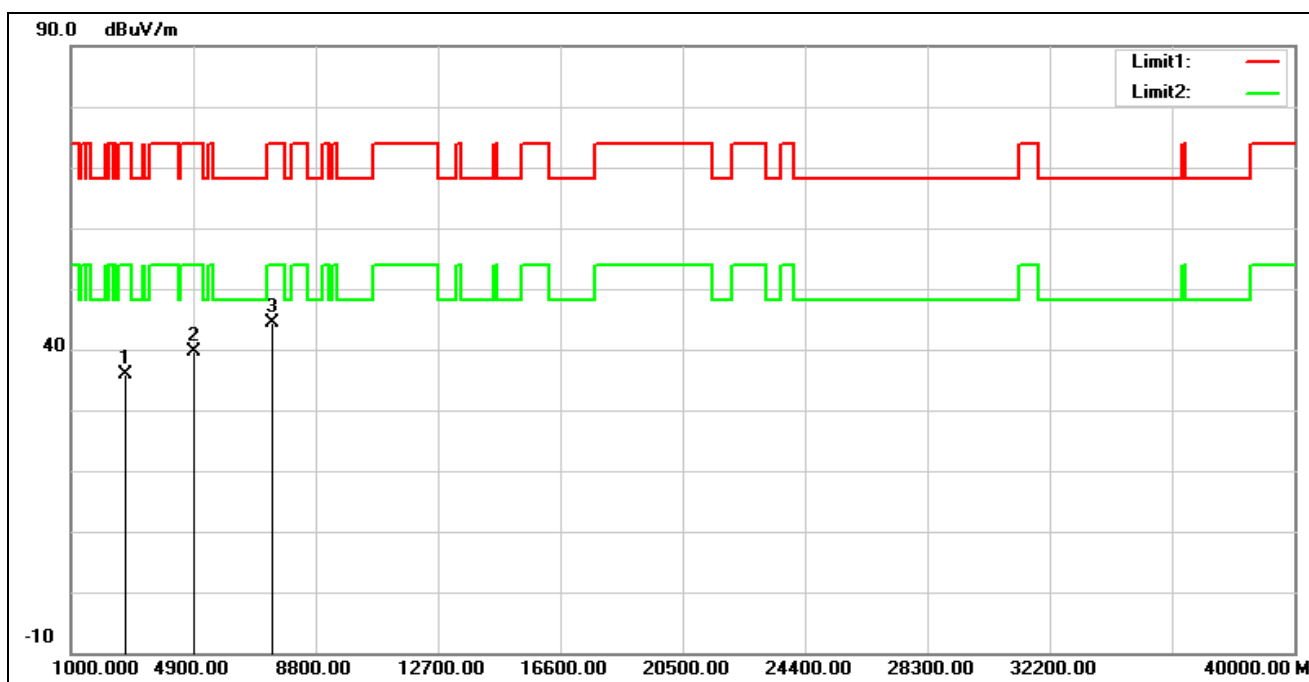
No.	Frequency (MHz)	Reading (dBuV)	Correction (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2649.000	43.56	-6.18	37.38	74.00	-36.62	peak
2	4349.000	40.19	-1.43	38.76	74.00	-35.24	peak
3*	6066.000	37.44	3.26	40.70	74.00	-33.30	peak

Standard:	Part 15E	Test Site:	966 Chamber
Polarization:	Horizontal		
Test Mode:	3G WCDMA+WLAN 2.4GHz		
Remark:			



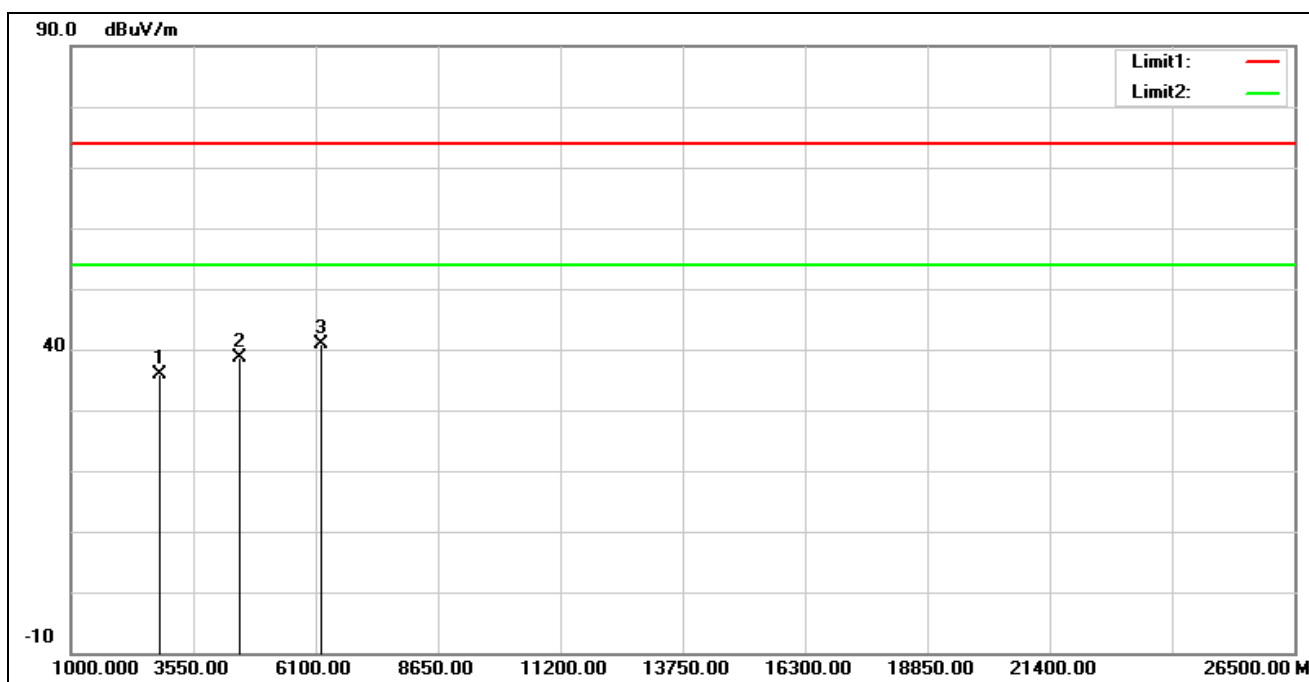
No.	Frequency (MHz)	Reading (dBuV)	Correction (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2785.000	41.71	-5.53	36.18	74.00	-37.82	peak
2	4927.000	40.98	0.27	41.25	74.00	-32.75	peak
3*	7562.000	37.31	8.29	45.60	74.00	-28.40	peak

Standard:	Part 15E	Test Site:	966 Chamber
Polarization:	Vertical		
Test Mode:	3G WCDMA+WLAN 2.4GHz		
Remark:			



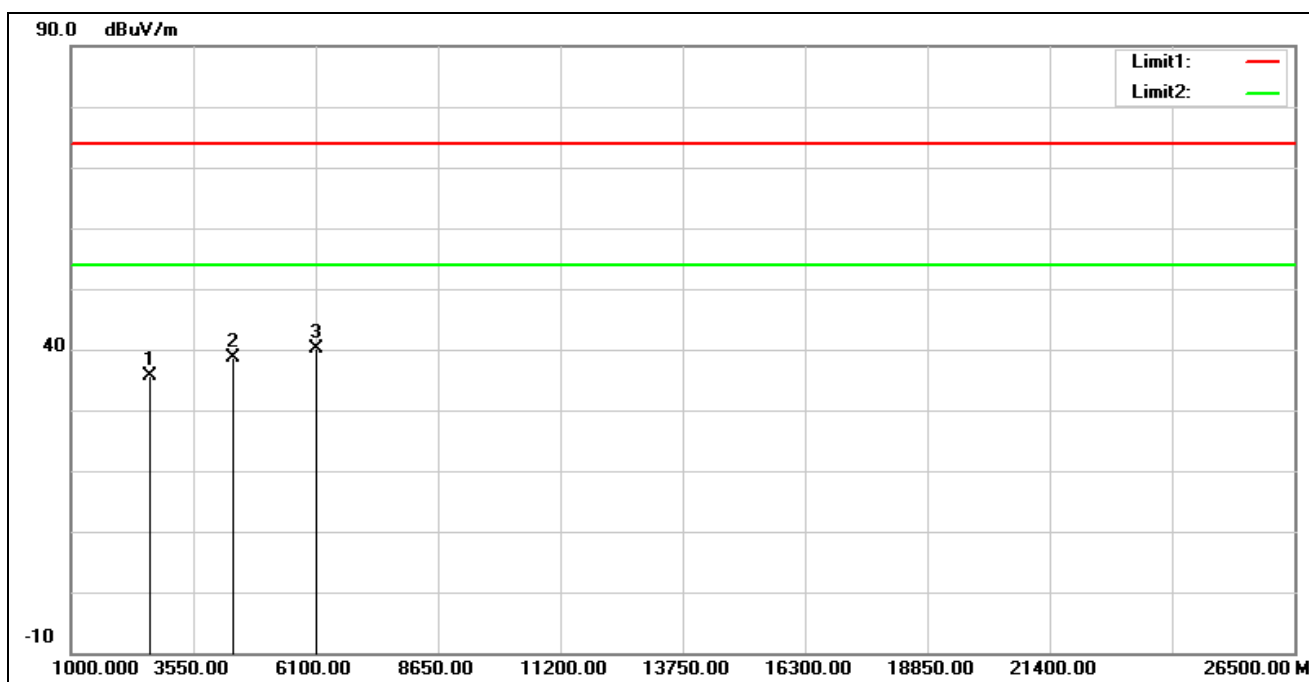
No.	Frequency (MHz)	Reading (dBuV)	Correction (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2683.000	41.70	-5.88	35.82	74.00	-38.18	peak
2	4910.000	39.46	0.17	39.63	74.00	-34.37	peak
3*	7409.000	36.08	8.22	44.30	74.00	-29.70	peak

Standard:	Part 15C	Test Site:	966 Chamber
Polarization:	Horizontal		
Test Mode:	4G LTE+WLAN 2.4GHz		
Remark:			



No.	Frequency (MHz)	Reading (dBuV)	Correction (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2819.000	41.54	-5.58	35.96	74.00	-38.04	peak
2	4502.000	40.24	-1.49	38.75	74.00	-35.25	peak
3*	6202.000	37.49	3.29	40.78	74.00	-33.22	peak

Standard:	Part 15C	Test Site:	966 Chamber
Polarization:	Vertical		
Test Mode:	4G LTE+WLAN 2.4GHz		
Remark:			



No.	Frequency (MHz)	Reading (dBuV)	Correction (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2649.000	41.94	-6.32	35.62	74.00	-38.38	peak
2	4366.000	40.40	-1.67	38.73	74.00	-35.27	peak
3*	6117.000	36.94	3.11	40.05	74.00	-33.95	peak

4.3. Average Output Power / Peak-to-Average Ratio / 26dB Bandwidth and Occupied Bandwidth / Band Edge / Conducted Spurious Emission / Frequency Stability/ End user device additional requirements

The equipment passed the requirement of this clause, the detail results refer to

Appendix A. Test Results_GSM

Appendix B. Test Results_WCDMA

Appendix C. Test Results_LTE

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