





reproduced with

LTE RADIO TEST REPORT

Report No:STS1807042W12

Issued for

Shanghai Unihertz E-Commerce Co., Ltd

Room 302, No. 5, Lane 59, Shennan Rd, Minhang district, Shanghai, China 201108

Product Name:	Smart phone
Brand Name:	Unihertz
Model Name:	Atom
Series Model:	N/A
FCC ID:	2AK6CATOM
Test Standard:	47 CFR Part 2, 22(H), 24(E), 27

Any reproduction of this document must be done in full. No single part of this document may be represented from STS, All Test Data Presented in this report is only applicable to presented Test sample







Test Standards.....

Test Result.....Pass

TEST RESULT CERTIFICATION

Page 2 of 133

Applicant's name:	Shanghai Unihertz E-Commerce Co., Ltd
Address:	Room 302, No. 5, Lane 59, Shennan Rd, Minhang district, Shanghai, China 201108
Manufacture's Name	OBLUE Communication Technology Co.,Ltd.
Address:	Room 406, Hivac Building, No. 2 North keji Rd, North Hi-Tech Industry Park, Nanshan district, shenzhen, China 201108
Product description	
Product Name:	Smart phone
Brand Name:	Unihertz
Model Name:	Atom
Series Model:	N/A

Test procedure.....: KDB 971168 D01 v03r01 , ANSI C63.26 2015

This device described above has been tested by STS and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

47 CFR Part 2, 22(H), 24(E), 27

This report shall not be reproduced except in full, without the written approval of STS, this document only be altered or revised by STS, personal only, and shall be noted in the revision of the document.

Testing Engineer : (him chem

(Chris chen)

Technical Manager :

(Sean she)

Authorized Signatory :

(Vita Li)



TABLE OF CONTENTS	Page
1. TEST FACTORY & MEASUREMENT UNCERTAINTY	5
2. GENERAL INFORMATION	6
3. CONDUCTED OUTPUT POWER	17
4. PEAK-TO-AVERAGE RATIO	40
5. RADIATED POWER AND EFFECTIVE ISOTROPIC RADIATED POWER	44
6. OCCUPIED BANDWIDTH	69
7. CONDUCTED BAND EDGE	74
8. CONDUCTED SPURIOUS EMISSIO	76
9. RADIATED SPURIOUS EMISSION	77
10. FREQUENCY STABILITY	122
PHOTOS OF TEST SETUP	133



Revision History

Rev.	Issue Date	Report NO.	Effect Page	Contents
00	20 Aug. 2018	STS1807042W12	ALL	Initial Issue





1. TEST FACTORY & MEASUREMENT UNCERTAINTY

1.1 TEST FACTORY

Shenzhen STS Test Services Co., Ltd.

Add.: 1/F., Building B, Zhuoke Science Park, No.190, Chongqing Road,

Fuyong Street, Bao'an District, Shenzhen, Guangdong, China CNAS Registration No.: L7649; FCC Registration No.: 625569 IC Registration No.: 12108A; A2LA Certificate No.: 4338.01;

1.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $\mathbf{y} \pm \mathbf{U}$, where expended uncertainty \mathbf{U} is based on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95 % -

Page 5 of 133

No.	Item	Uncertainty
3	RF power,conducted	±0.71dB
5	All emissions,radiated(<1G) 30MHz-200MHz	±2.83dB
6	All emissions,radiated(<1G) 200MHz-1000MHz	±2.94dB
7	All emissions,radiated(>1G)	±3.03dB



2. GENERAL INFORMATION

2.1 TECHNICAL SPECIFICATIONS AND REGULATIONS

2.1.1 PRODUCT DESCRIPTION

A major technical description of EUT is described as following:

Product Name:	Smart phone	
Trade Name	Unihertz	
Model Name	Atom	
Series Model	N/A	
Model Difference	N/A	
	U.S. Bands:	
	☑LTE FDD Band 2	
Francisco Danda.	☑LTE FDD Band 5	
Frequency Bands:	☑LTE FDD Band 12	
	☑LTE FDD Band 17 ☑LTE TDD Band 25	
	⊠LTE FDD Band 26 ⊠LTE TDD Band 41	
SIM CARD:	SIM 1 and SIM 2 is a chipset unit and tested as single chipset,SIM	
SIM CARD:	1 is used to tested	
Antenna:	PIFA Antenna	
	LTE Band 2: 0.45dBi LTE Band 4: 0.45dBi	
\ \	LTE Band 5: -0.47dBi LTE Band 7: 0.45dBi	
Antenna gain:	LTE Band 12: -1.27dBi	
`	LTE Band 17: -1.27dBi LTE Band 25: 0.45dBi	
	LTE Band 26: -0.47dBi	
Power Supply:	DC 3.85V by battery	
Battery parameter:	Capacity: 2000mAh, Rated Voltage: 3.85V	
Adaptor	Input: AC100-240V, 300mA, 50/60Hz	
Adapter:	Output: DC 5V, 1500mA	
Extreme Vol. Limits:	DC 3.5 V to 4.4 V (Nominal DC3.85V)	
Extreme Temp. Toler-	20% to .50%	
ance:	-30°C to +50°C	
Hardware version number:	G35_V1.2	
Software version number:	alps-mp-01.mp1	



2.1.2 PRODUCT SPECIFICATION SUBJECTIVE TO THIS STANDARD

Product Specification Subjective To This Standard			
	LTE Band 2:1850~1910MHz		
Tx Frequency	LTE Band 4:1710~1755MHz		
	LTE Band 5:824~849MHz		
	LTE Band 7:2500~2570MHz		
	LTE Band 12:699~716MHz		
	LTE Band 13:777~787MHz		
	LTE Band 17:704~716MHz		
	LTE Band 25:1850~1915MHz		
	LTE Band 26:814~849MHz		
	LTE Band 41:2496~2690MHz		
	LTE Band 2:1930~1990MHz		
Rx Frequency	LTE Band 4:2110~2155MHz		
	LTE Band 5:869~894MHz		
	LTE Band 7:2620~2690MHz		
	LTE Band 12:729~746MHz		
	LTE Band 13:746~756MHz		
	LTE Band 17:734~746MHz		
	LTE Band 25:1930~1995MHz		
	LTE Band 26: 859~894MHz		
	LTE Band 41:2496~2690MHz		
	LTE Band 2: 1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz / 20MHz		
Bandwidth	LTE Band 4: 1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz / 20MHz		
	LTE Band 5 : 1.4MHz / 3MHz / 5MHz / 10MHz		
	LTE Band 7: 5MHz / 10MHz / 15MHz / 20MHz		
	LTE Band 12 : 1.4MHz / 3MHz / 5MHz / 10MHz		
	LTE Band 13 : 5MHz / 10MHz		
	LTE Band 17: 5MHz / 10MHz		
\	LTE Band 25: 1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz / 20MHz		
	LTE Band 26: 1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz		
	LTE Band 41 : 5MHz / 10MHz / 15MHz /20MHz		
	LTE Band 2: 21.53dBm		
Maximum Output	LTE Band 4: 21.61 dBm		
Power Limit	LTE Band 5 : 22.05 dBm		
	LTE Band 7: 21.19dBm		
	LTE Band 12 : 21.96 dBm		
	LTE Band 13 : 22.12 dBm		
	LTE Band 17: 22.13dBm		
	LTE Band 25: 21.44 dBm		
	LTE Band 26 : 21.90 dBm LTE Band 41 : 20.58 dBm		
Type of Modulation	QPSK / 16QAM		
	1		



2.1.3 EMISSION DESIGNATOR

LTE Band 2 BW(MHz)	Emission Designator (26dBc)QPSK	Emission Designator (26dBc)16QAM
1.4	1M30G7D	1M31W7D
3	2M88G7D	2M86W7D
5	5M22G7D	5M21W7D
10	9M92G7D	9M88W7D
15	15M2G7D	16M1W7D
20	19M8G7D	19M6W7D

LTE Band 4 BW(MHz)	Emission Designator (26dBc)QPSK	Emission Designator (26dBc)16QAM
1.4	1M31G7D	1M31W7D
3	2M86G7D	2M87W7D
5	5M20G7D	5M18W7D
10	9M89G7D	9M89W7D
15	15M1G7D	15M0W7D
20	19M8G7D	19M7W7D

LTE Band 5 BW(MHz)	Emission Designator (26dBc)QPSK	Emission Designator (26dBc)16QAM
1.4	1M31G7D	1M30W7D
3	2M87G7D	2M87W7D
5	5M20G7D	5M19W7D
10	9M91G7D	9M79W7D

LTE Band 7 BW(MHz)	Emission Designator (26dBc)QPSK	Emission Designator (26dBc)16QAM
5	5M21G7D	5M32W7D
10	9M94G7D	9M89W7D
15	15M2G7D	15M1W7D
20	19M8G7D	19M8W7D

LTE Band 12 BW(MHz)	Emission Designator (26dBc)QPSK	Emission Designator (26dBc)16QAM
1.4	1M30G7D	1M31W7D
3	2M87G7D	2M87W7D
5	5M10G7D	5M09W7D
10	9M96G7D	9M87W7D



LTE Band 13 BW(MHz)	Emission Designator (26dBc)QPSK	Emission Designator (26dBc)16QAM
5	5M20G7D	5M22W7D
10	9M93G7D	9M70W7D

Page 9 of 133

LTE Band 17 BW(MHz)	Emission Designator (26dBc)QPSK	Emission Designator (26dBc)16QAM
5	5M18G7D	5M18W7D
10	9M91G7D	9M79W7D

LTE Band 25 BW(MHz)	Emission Designator (26dBc)QPSK	Emission Designator (26dBc)16QAM
1.4	1M31G7D	1M30W7D
3	2M86G7D	2M86W7D
5	5M16G7D	5M20W7D
10	9M92G7D	9M81W7D
15	15M1G7D	15M1W7D
20	19M7G7D	19M8W7D

LTE Band 26 BW(MHz)	Emission Designator (26dBc)QPSK	Emission Designator (26dBc)16QAM
1.4	1M30G7D	1M30W7D
3	2M87G7D	2M86W7D
5	5M20G7D	5M19W7D
10	9M85G7D	9M83W7D
15	15M1G7D	15M0W7D

LTE Band 41 BW(MHz)	Emission Designator (26dBc)QPSK	Emission Designator (26dBc)16QAM
5	5M43G7D	5M28W7D
10	10M1G7D	10M0W7D
15	14M6G7D	14M7W7D
20	19M3G7D	19M1W7D



2.1.4 TEST CONFIGURATION OF EQUIPMENT UNDER TEST

Antenna port conducted and radiated test items listed below are performed according to KDB 971168 D01 v03r01 and ANSI C63.26 2015 Power Meas. License Digital Systems with maximum output power.Radiated measurements are performed by rotating the EUT in three different orthogonal test planes tofind the maximum emission.

- 1. The mark "v " means that this configuration is chosen for testing
- 2. The mark "-" means that this bandwidth is not supported.
- 3. The device is investigated from 30MHz to 10 times of fundamental signal for radiated

ITEMS	Band	В	and	lwic	dth (MH	z)	Modul	lation		RB#		Test Channel		
		1.4	3	5	10	15	20	QPSK	16QAM	1	Half	Full	L	М	Н
	2	٧	v	٧	٧	V	٧	V	V	٧	٧	٧	٧	٧	٧
	4	٧	٧	٧	٧	٧	٧	٧	V	V	V	٧	٧	٧	٧
	5	٧	٧	٧	٧			V	V	V	V	٧	٧	٧	٧
	7			>	>	٧	>	V	V	V	V	٧	>	٧	٧
Max. Output	12	٧	V	٧	٧			V	V	V	V	V	٧	٧	٧
Power	13			>	>			٧	V	V	V	٧		٧	
	17			>	٧			V	V	V	V	٧	٧	٧	٧
	25	٧	V	>	>	٧	٧	V	V	V	V	٧	٧	٧	٧
	26	٧	V	٧	٧	V		٧	V	V	V	V	٧	٧	٧
	41			٧	٧	V	٧	V	V	V	V	V	٧	٧	٧
	2						٧	V	V	V		٧	>	٧	٧
	4						٧	v	V	V		٧	>	٧	٧
	5				٧			V	V	V		٧	٧	٧	٧
	7						٧	V	v	V		٧	>	٧	٧
Peak&Avera	12				>			٧	V	V		٧	>	٧	٧
Ratio	13				٧			٧	V	V		٧		٧	
	17				>			٧	V	V		٧	>	٧	٧
	25						٧	٧	V	V		٧	>	٧	٧
	26					v		V	V	V		V	٧	٧	٧
	41						٧	٧	V	V		٧	٧	٧	٧
	2	٧	٧	>	>	٧	٧	٧	V			٧	>	٧	٧
	4	٧	٧	٧	٧	٧	٧	V	v			٧	٧	٧	٧
	5	٧	٧	٧	٧			٧	V			٧	٧	٧	٧
	7			٧	٧	V	٧	٧	V			٧	٧	٧	٧
	12	V	V	٧	٧			V	v			٧	٧	٧	٧
26dB&99%	13			٧	٧			V	v			٧		٧	
Bandwidth	17			٧	٧			٧	V			٧	٧	٧	٧
	25	v	٧	٧	٧	V	٧	٧	v			٧	٧	v	V
	26	v	v	V	V	v		V	v			V	V	v	V
	41			٧	٧	V	V	V	V			V	٧	V	٧



	2	٧	٧	٧	٧	٧	٧	V	V	V	V	' \	,	V	٧
	4	V	٧	٧	٧	٧	٧	V	v	^	V	' \	,	V	٧
	5	٧	٧	٧	٧			V	v	٧	V	' \	,	٧	٧
	7			V	٧	٧	٧	V	v	٧	V	, ,	,	V	٧
Conducted	12	٧	٧	٧	٧			V	v	٧	V	, v	,	٧	٧
Band Edge	13			٧	٧			V	v	V	V	,		V	
	17			v	٧			V	v	V	V	′ \	,	v	٧
	25	٧	V	٧	٧	٧	٧	V	v	V	V	′ \	,	V	٧
	26	٧	v	v	٧	٧		V	v	V	V	, v	,	V	٧
	41			v	٧	٧	٧	V	v	V	V	, \	,	V	٧
	2	٧	٧	v	٧	٧	٧	٧	v	V		\	,	٧	٧
	4	V	v	v	v	v	٧	V	v	V		\	,	v	٧
	5	V	v	v	٧			V	v	v		V	,	V	٧
	7			v	v	v	٧	V	v	v		\	,	v	٧
Conducted	12	v	v	v	v			V	V	v		\	,	v	٧
Spurious Emission	13			v	V			V	v	v				v	
Lillission	17			v	v			V	v	v		\ \	,	v	٧
	25	v	v	v	v	v	٧	V	v	v		\ \	,	v	٧
	26	v	v	v	٧	v		v	v	v		\ \	,	v	٧
	41			v	v	v	٧	V	v	v		\ \	,	v	٧
	2	Ų.			V			v			V	,		v	
	4				v			V			V	,		v	
	5				٧			v			V	,		v	
	7				٧			v	/ /		V	,		v	
	12				v			v			V	,		v	
Frequency Stability	13				v			v			V	,		v	
Stability	17				V			V			V	,		v	
	25				٧			V			V	,		v	
	26				v			V			V	,		v	
	41				v			V			V	,		v	
	2	v	v	v	v	v	٧	v	v	v		\	,	v	٧
	4	v	v	v	v	v	V	v	v	v		\	,	v	٧
	5	V	v	v	v			V	v	V		\	_	v	٧
	7			v	v	v	V	V	v	V		\	,	v	٧
	12	v	v	v	v	<u> </u>		v	v	v		\	_	v	V
E.R.P.& E.I.R.P.	13	-	<u> </u>	v	v			V	v	v				v	
E.I.K.P.	17			v	v			V	v	v		\	,	v	٧
	25	v	v	v	v	v	٧	v	v	v				v	v
	26	v	v	v	v	v		v	v	v				v	v
	41	<u> </u>	Ť	v	v	v	V	v	v	v				v	v
	71	1				_		_		•				•	_



	2	v	٧	v	٧	V	v	V	V		v	v	V
	4	٧	٧	V	٧	V	٧	V	v		٧	٧	٧
	5	٧	٧	V	٧			V	v		٧	٧	٧
	7			٧	٧	V	٧	V	v		٧	٧	٧
Radiated	12	V	٧	٧	٧			V	v		٧	٧	٧
Spurious Emission	13			٧	٧			V	v			٧	
	17			٧	٧			V	v		٧	٧	٧
	25	٧	٧	٧	٧	٧	٧	V	v		٧	٧	V
	26	V	٧	٧	٧	V		V	v		٧	٧	٧
	41			٧	٧	٧	٧	٧	V		٧	٧	٧





2.1.5 RELATED SUBMITTAL(S) / GRANT (S)

This submittal(s) (test report) is intended for filing to comply with the 47 CFR Part 2, 24(E), 27

2.1.6 SPECIAL ACCESSORIES

The battery and the charger, earphone supplied by the applicant were used as accessories and being tested with eut intended for fcc grant together.

2.1.7 EUT CONFIGURATION

The EUT configuration for testing is installed on RF field strength measurement to meet the Commission's requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

2.1.8 EUT EXERCISE

The Transmitter was operated in the maximum output power mode through Communication Tester. The TX frequency was fixed which was for the purpose of the measurements.



2.1.9 CONFIGURATION OF EUT SYSTEM

The EUT configuration for testing is installed on RF field strength measurement to meet the Commission's requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

E-1 EUT

Table 2-1 Equipment Used in EUT System

Item	Equipment	Model No.	Serial No.	Note		
N/A	N/A	N/A	N/A	N/A		

Note:

- (1) The support equipment was authorized by Declaration of Confirmation.
- (2) For detachable type I/O cable should be specified the length in cm in <code>FLength</code> <code>_</code> column.



2.1.10 MEASUREMENT INSTRUMENTS

The radiated emission testing was performed according to the procedures of ANSI C63.26 2015 and FCC CFR 47 rules of 2.1046, 2.1047, 2.1049, 2.1051, 2.1053, 2.1055, 2.1057.

Kind of Equipment	Manufacturer	Type No.	Serial No.	Last Calibra- tion	Calibrated Until
Test Receiver	R&S	ESCI	101427	2017.10.15	2018.10.14
Wireless Communica- tions Test Set	R&S	CMW 500	131428	2018.03.11	2019.03.10
Bilog Antenna	TESEQ	CBL6111D	34678	2017.11.02	2018.11.01
Horn Antenna	Schwarzbeck	BBHA 9120D (1201)	9120D-1343	2017.10.27	2018.10.26
MXA SIGNAL Analyzer	Agilent	N9020A	MY49100060	2017.10.15	2018.10.14
Low frequency cable	N/A	R01	N/A	NCR	NCR
High frequency cable	SCHWARZBECK	AK9515H	SN-96286/96287	NCR	NCR
Signal Generator	Agilent	N5182A	MY46240556	2017.10.15	2018.10.14
Pre-mplifier (0.1M-3GHz)	EM	EM330	60538	2018.03.11	2019.03.10
PreAmplifier (1G-26.5GHz)	Agilent	8449B	60538	2017.10.15	2018.10.14
Temperature& Humidity test chamber	GZGONGWEN	GDS-250	080821	2017.10.15	2018.10.14
Band Reject fil- ter(1920-1980MHz)	COM-MW	ZBSF-1920-1980	0092	2017.10.15	2018.10.14
Band Reject fil- ter(880-915MHz)	COM-MW	ZBSF-C897.5-35	707	2017.10.15	2018.10.14
Band Reject fil- ter(1710-1785MHz)	COM-MW	ZBSF-C1747.5-75	708	2017.10.15	2018.10.14
Band Reject fil- ter(1850-1910MHz)	COM-MW	ZBSF-C1880-60	709	2017.10.15	2018.10.14
Band Reject fil- ter(2500-2570MHz)	COM-MW	ZBSF-C2535-70	710	2017.10.15	2018.10.14
Highpass Filter	WHKX7.0/18G-8SS	Wainwright	18	2017.10.15	2018.10.14



2. 1.11 MEASUREMENT RESULTS EXPLANATION EXAMPLE

For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuator factorbetween EUT conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly the EUT RF output level.

The spectrum analyzer offset is derived from RF cable loss and attenuator factor.

Offset = RF Cable Loss + Attenuator Factor.





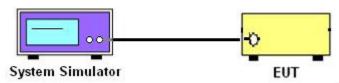
3. CONDUCTED OUTPUT POWER

3.1 DESCRIPTION OF THE CONDUCTED OUTPUT POWER MEASUREMENT

3.1.1 MEASUREMENT METHOD

A System Simulator Was Used To Establish Communication With The EUT. Its Parameters Were Set To Force The EUT Transmitting At Maximum Output Power. The Measured Power In The Radio Frequency On The Transmitter Output Terminals Shall Be Reported. configuration follows KDB 971168 D01 v03r01.

3.1.2 TEST SETUP



3.1.3 TEST PROCEDURES

- 1. The Transmitter Output Port Was Connected To The System Simulator.
- Set EUT at maximum power through the system simulator.
- 3. Select lowest, middle, and highest channels for each band and different modulation.
- 4. Measure and record the power level from the system simulator.



3.1.4 TEST RESULTS

	LTE	Band 2 Maximu	ım Average P	ower [dBm]		
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
1.4	1	0		21.23	21.18	21.14
1.4	1	2		21.38	21.32	21.25
1.4	1	5		21.19	21.19	21.13
1.4	3	0	QPSK	21.34	21.37	21.33
1.4	3	1		21.43	21.39	21.37
1.4	3	2		21.39	21.34	21.33
1.4	6	0		20.25	20.2	20.2
1.4	1	0		20.44	20.49	20.1
1.4	1	2		20.56	20.59	20.17
1.4	1	5		20.42	20.49	20.11
1.4	3	0	16-QAM	20.42	20.35	20.32
1.4	3	1		20.41	20.34	20.36
1.4	3	2		20.42	20.36	20.3
1.4	6	0		19.38	19.35	19.35
3	1	0		21.21	21.22	21.19
3	1	7		21.35	21.3	21.31
3	1	14		21.16	21.23	21.14
3	8	0	QPSK	20.24	20.18	20.19
3	8	4		20.29	20.26	20.2
3	8	7		20.23	20.13	20.15
3	15	0		20.26	20.2	20.21
3	1	0		20.4	20.46	20.42
3	1	7		20.56	20.59	20.58
3	1	14		20.48	20.46	20.46
3	8	0	16-QAM	19.49	19.44	19.39
3	8	4		19.55	19.44	19.43
3	8	7		19.51	19.4	19.33
3	15	0		19.42	19.36	19.33



	LTE	Band 2 Maximu	ım Average P	ower [dBm]		
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0		21.14	21.11	21.07
5	1	12		21.44	21.37	21.33
5	1	24		21.14	21.12	21.09
5	12	0	QPSK	20.31	20.26	20.29
5	12	6		20.35	20.25	20.23
5	12	11		20.28	20.2	20.2
5	25	0		20.29	20.23	20.23
5	1	0		20.3	20.17	20.52
5	1	12		20.57	20.39	20.77
5	1	24		20.35	20.14	20.51
5	12	0	16-QAM	19.45	19.52	19.29
5	12	6		19.48	19.51	19.29
5	12	11		19.44	19.47	19.24
5	25	0		19.34	19.36	19.32
10	1	0		21.16	21.17	21.16
10	1	24		21.34	21.3	21.33
10	1	49		21.16	21.18	21.16
10	25	0	QPSK	20.45	20.35	20.34
10	25	12		20.43	20.28	20.3
10	25	24		20.41	20.25	20.22
10	50	0		20.45	20.28	20.27
10	1	0		20.4	20.42	20.42
10	1	24		20.62	20.63	20.54
10	1	49		20.41	20.44	20.39
10	25	0	16-QAM	19.55	19.5	19.54
10	25	12		19.53	19.38	19.51
10	25	24		19.55	19.37	19.4
10	50	0		19.48	19.33	19.34



	LTE Band 2 Maximum Average Power [dBm]								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest			
15	1	0		21.24	21.2	21.25			
15	1	37		20.98	20.98	21.04			
15	1	74		20.7	20.69	20.84			
15	36	0	QPSK	20.43	20.46	20.59			
15	36	18		20.2	20.22	20.36			
15	36	39		19.93	20.01	20.09			
15	75	0		19.73	19.81	19.88			
15	1	0		20.95	20.94	21.03			
15	1	38		20.73	20.72	20.79			
15	1	75		20.5	20.47	20.54			
15	36	0	16-QAM	20.22	20.25	20.24			
15	36	18		20	20.01	19.94			
15	36	39		19.76	19.72	19.74			
15	75	0		19.47	19.49	19.45			
20	1	0		21.53	21.51	21.45			
20	1	49		20.97	21.01	21			
20	1	99		20.72	20.77	20.77			
20	50	0	QPSK	20.46	20.5	20.53			
20	50	24		20.16	20.26	20.24			
20	50	49		19.94	19.99	19.99			
20	100	0		19.69	19.76	19.73			
20	1	0		20.99	20.98	20.98			
20	1	49		20.75	20.71	20.77			
20	1	99		20.54	20.49	20.57			
20	50	0	16-QAM	20.28	20.26	20.29			
20	50	24		20.04	19.99	20.04			
20	50	49		19.78	19.71	19.76			
20	100	0		19.53	19.43	19.53			



	LTE I	Band 4 Maximu	m Average P	ower [dBm]		
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
1.4	1	0		21.23	21.21	21.22
1.4	1	2		21.38	21.32	21.32
1.4	1	5		21.26	21.21	21.22
1.4	3	0	QPSK	21.37	21.3	21.31
1.4	3	1		21.41	21.39	21.37
1.4	3	2		21.39	21.43	21.36
1.4	6	0		20.28	20.25	20.23
1.4	1	0		20.15	20.47	20.45
1.4	1	2		20.24	20.52	20.5
1.4	1	5		20.22	20.5	20.48
1.4	3	0	16-QAM	20.38	20.35	20.27
1.4	3	1		20.4	20.4	20.35
1.4	3	2		20.37	20.35	20.28
1.4	6	0		19.45	19.39	19.4
3	1	0		21.36	21.34	21.29
3	1	7		21.48	21.51	21.46
3	1	14		21.33	21.36	21.21
3	8	0	QPSK	20.39	20.33	20.33
3	8	4		20.42	20.39	20.38
3	8	7		20.34	20.35	20.31
3	15	0		20.4	20.34	20.32
3	1	0		20.56	20.55	20.52
3	1	7		20.68	20.71	20.6
3	1	14		20.56	20.47	20.49
3	8	0	16-QAM	19.66	19.58	19.47
3	8	4		19.65	19.63	19.5
3	8	7		19.61	19.54	19.43
3	15	0		19.49	19.44	19.44



	LTE Band 4 Maximum Average Power [dBm]								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest			
5	1	0		21.25	21.23	21.2			
5	1	12		21.54	21.45	21.49			
5	1	24		21.24	21.22	21.21			
5	12	0	QPSK	20.39	20.25	20.28			
5	12	6		20.42	20.35	20.34			
5	12	11		20.37	20.38	20.3			
5	25	0		20.36	20.34	20.28			
5	1	0		20.38	20.25	20.54			
5	1	12		20.67	20.51	20.87			
5	1	24		20.39	20.25	20.56			
5	12	0	16-QAM	19.52	19.48	19.32			
5	12	6		19.55	19.58	19.36			
5	12	11		19.57	19.61	19.28			
5	25	0		19.41	19.43	19.36			
10	1	0		21.32	21.32	21.24			
10	1	24		21.41	21.43	21.38			
10	1	49		21.27	21.27	21.24			
10	25	0	QPSK	20.46	20.28	20.35			
10	25	12		20.44	20.36	20.31			
10	25	24		20.38	20.4	20.25			
10	50	0		20.44	20.36	20.32			
10	1	0		20.48	20.53	20.36			
10	1	24		20.65	20.63	20.53			
10	1	49		20.56	20.5	20.48			
10	25	0	16-QAM	19.61	19.44	19.54			
10	25	12		19.58	19.49	19.5			
10	25	24		19.55	19.53	19.44			
10	50	0		19.5	19.42	19.36			



LTE Band 4 Maximum Average Power [dBm]								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest		
15	1	0		21.58	21.53	21.52		
15	1	37		21.28	21.32	21.25		
15	1	74		21.01	21.04	21		
15	36	0	QPSK	20.77	20.77	20.77		
15	36	18		20.54	20.51	20.57		
15	36	39		20.3	20.29	20.35		
15	75	0		20.09	20.03	20.08		
15	1	0		21.3	21.31	21.23		
15	1	38		21.06	21.11	20.96		
15	1	75		20.79	20.91	20.69		
15	36	0	16-QAM	20.55	20.68	20.45		
15	36	18		20.3	20.46	20.24		
15	36	39		20.01	20.18	19.95		
15	75	0		19.72	19.97	19.73		
20	1	0		21.61	21.56	21.54		
20	1	49		21.36	21.31	21.31		
20	1	99		21.13	21.02	21.05		
20	50	0	QPSK	20.86	20.73	20.82		
20	50	24		20.58	20.46	20.57		
20	50	49		20.37	20.18	20.36		
20	100	0		20.1	19.96	20.14		
20	1	0		21.35	21.3	21.27		
20	1	49		21.11	21.05	20.99		
20	1	99		20.9	20.77	20.7		
20	50	0	16-QAM	20.63	20.54	20.45		
20	50	24		20.34	20.29	20.2		
20	50	49		20.06	20.03	19.9		
20	100	0		19.84	19.75	19.67		



	LTE	Band 5 Maximu	ım Average P	ower [dBm]		
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
1.4	1	0		21.81	21.76	21.76
1.4	1	2		21.86	21.9	21.82
1.4	1	5		21.79	21.76	21.72
1.4	3	0	QPSK	21.92	21.87	21.85
1.4	3	1		21.96	21.92	21.94
1.4	3	2		21.91	21.87	21.86
1.4	6	0		20.88	20.84	20.86
1.4	1	0		20.78	21.06	21.06
1.4	1	2		20.88	21.22	21.11
1.4	1	5		20.76	21.01	21.09
1.4	3	0	16-QAM	20.91	21.01	20.91
1.4	3	1		21.06	21	20.94
1.4	3	2		20.99	20.91	20.91
1.4	6	0		20	19.91	20
3	1	0		21.9	21.9	21.86
3	1	7		21.98	22.01	22.01
3	1	14		21.83	21.85	21.9
3	8	0	QPSK	20.98	20.92	20.97
3	8	4		21	20.99	20.98
3	8	7		20.97	20.92	20.9
3	15	0		20.97	20.92	20.95
3	1	0		21.17	21.17	21.17
3	1	7		21.28	21.3	21.31
3	1	14		21.15	21.13	21.17
3	8	0	16-QAM	20.15	20.1	20.05
3	8	4		20.17	20.12	20.01
3	8	7		20.15	20.06	19.95
3	15	0		20.05	19.97	19.99



	LTE Band 5 Maximum Average Power [dBm]								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest			
5	1	0		22.01	22.03	22.04			
5	1	12		21.74	21.75	21.78			
5	1	24		21.48	21.53	21.5			
5	12	0	QPSK	21.21	21.28	21.28			
5	12	6		21	21	21.03			
5	12	11		20.71	20.77	20.76			
5	25	0		20.46	20.56	20.55			
5	1	0		21.74	21.74	21.82			
5	1	12		21.5	21.51	21.57			
5	1	24		21.21	21.3	21.37			
5	12	0	16-QAM	20.97	21.05	21.07			
5	12	6		20.7	20.77	20.81			
5	12	11		20.42	20.54	20.54			
5	25	0		20.15	20.3	20.32			
10	1	0		22.03	22.05	22.05			
10	1	24		21.78	21.83	21.8			
10	1	49		21.53	21.56	21.56			
10	25	0	QPSK	21.25	21.28	21.28			
10	25	12		21.01	20.98	21.05			
10	25	24		20.75	20.76	20.83			
10	50	0		20.48	20.48	20.6			
10	1	0		21.78	21.75	21.77			
10	1	24		21.5	21.5	21.48			
10	1	49		21.29	21.25	21.25			
10	25	0	16-QAM	20.99	20.99	20.99			
10	25	12		20.79	20.69	20.73			
10	25	24		20.5	20.41	20.48			
10	50	0		20.21	20.12	20.22			



	LTE	Band 7 Maximi	um Average F	Power [dBm]		
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0		20.88	20.85	20.86
5	1	12		21.14	21.12	21.14
5	1	24		20.85	20.84	20.86
5	12	0	QPSK	19.93	19.88	19.83
5	12	6		20	19.94	19.96
5	12	11		19.97	19.92	19.98
5	25	0		19.92	19.91	19.94
5	1	0		19.91	19.81	20.16
5	1	12		20.21	20.06	20.43
5	1	24		19.91	19.8	20.16
5	12	0	16-QAM	19.05	18.99	18.82
5	12	6		19.1	19.09	18.92
5	12	11		19.1	19.13	18.92
5	25	0		18.96	19	18.95
10	1	0		20.96	20.88	20.95
10	1	24		21.06	20.99	21.05
10	1	49		20.91	20.89	20.95
10	25	0	QPSK	19.99	19.87	19.9
10	25	12		19.97	19.93	19.94
10	25	24		19.96	20	20.01
10	50	0		19.96	19.94	19.96
10	1	0		20.08	20	20.05
10	1	24		20.2	20.14	20.14
10	1	49		20.04	20.05	20.04
10	25	0	16-QAM	19.07	18.92	19.01
10	25	12		19.05	19.01	19.08
10	25	24		19.02	19.04	19.12
10	50	0		18.98	18.95	19



	LTE	Band 7 Maximi	um Average F	Power [dBm]		
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
15	1	0		21.16	21.13	21.16
15	1	37		20.87	20.88	20.93
15	1	74		20.6	20.65	20.7
15	36	0	QPSK	20.38	20.42	20.41
15	36	18		20.16	20.16	20.13
15	36	39		19.95	19.87	19.89
15	75	0		19.71	19.66	19.63
15	1	0		20.88	20.85	20.87
15	1	38		20.65	20.62	20.63
15	1	75		20.36	20.4	20.35
15	36	0	16-QAM	20.07	20.2	20.13
15	36	18		19.83	19.91	19.87
15	36	39		19.55	19.64	19.66
15	75	0		19.34	19.4	19.42
20	1	0		21.18	21.15	21.19
20	1	49		20.94	20.94	20.94
20	1	99		20.68	20.71	20.69
20	50	0	QPSK	20.48	20.44	20.39
20	50	24		20.2	20.19	20.12
20	50	49		19.91	19.96	19.85
20	100	0		19.67	19.66	19.57
20	1	0		20.91	20.88	20.99
20	1	49		20.62	20.6	20.69
20	1	99		20.33	20.32	20.41
20	50	0	16-QAM	20.06	20.06	20.17
20	50	24		19.77	19.84	19.96
20	50	49		19.54	19.57	19.74
20	100	0		19.29	19.32	19.48



	LTE E	Band 12 Maximu	um Average F	Power [dBm]	
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
1.4	1	0		21.71	21.72	21.68
1.4	1	2		21.8	21.79	21.78
1.4	1	5		21.71	21.7	21.68
1.4	3	0	QPSK	21.83	21.8	21.8
1.4	3	1		21.89	21.88	21.85
1.4	3	2		21.82	21.84	21.85
1.4	6	0		20.77	20.74	20.72
1.4	1	0		20.6	20.93	20.83
1.4	1	2		20.73	20.98	20.95
1.4	1	5		20.61	20.96	20.9
1.4	3	0	16-QAM	20.83	20.86	20.74
1.4	3	1		20.87	20.9	20.78
1.4	3	2		20.83	20.8	20.78
1.4	6	0		19.94	19.89	19.82
3	1	0		21.76	21.81	21.79
3	1	7		21.9	21.91	21.92
3	1	14		21.75	21.78	21.81
3	8	0	QPSK	20.76	20.76	20.8
3	8	4		20.85	20.8	20.79
3	8	7		20.83	20.74	20.75
3	15	0		20.82	20.8	20.81
3	1	0		20.93	21.04	20.94
3	1	7		21.07	21.17	21.06
3	1	14		20.98	20.96	20.98
3	8	0	16-QAM	20.01	20.02	19.89
3	8	4		20.06	20.03	19.87
3	8	7		20.05	19.96	19.86
3	15	0		19.93	19.9	19.85



	LTE I	Band 12 Maxim	um Average F	Power [dBm]		
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0		21.92	21.94	21.94
5	1	12		21.67	21.73	21.71
5	1	24		21.4	21.44	21.41
5	12	0	QPSK	21.18	21.19	21.18
5	12	6		20.93	20.96	20.89
5	12	11		20.68	20.73	20.67
5	25	0		20.45	20.53	20.44
5	1	0		21.64	21.72	21.69
5	1	12		21.39	21.46	21.42
5	1	24		21.19	21.23	21.18
5	12	0	16-QAM	20.89	20.98	20.97
5	12	6		20.67	20.75	20.76
5	12	11		20.46	20.52	20.54
5	25	0		20.21	20.3	20.29
10	1	0		21.93	21.95	21.96
10	1	24		21.69	21.75	21.75
10	1	49		21.46	21.49	21.51
10	25	0	QPSK	21.17	21.24	21.3
10	25	12		20.96	21.01	21
10	25	24		20.73	20.81	20.71
10	50	0		20.48	20.53	20.47
10	1	0		21.71	21.65	21.74
10	1	24		21.45	21.39	21.5
10	1	49		21.15	21.11	21.25
10	25	0	16-QAM	20.89	20.84	20.98
10	25	12		20.68	20.58	20.68
10	25	24		20.42	20.34	20.47
10	50	0		20.19	20.1	20.17



LTE Band 13 Maximum Average Power [dBm]								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest		
5	1	0		21.77	21.77	21.75		
5	1	12		22	22	21.97		
5	1	24		21.79	21.72	21.77		
5	12	0	QPSK	20.79	20.75	20.77		
5	12	6		20.88	20.86	20.84		
5	12	11		20.87	20.86	20.84		
5	25	0		20.87	20.85	20.77		
5	1	0		20.76	20.79	21.09		
5	1	12		21.11	20.96	21.28		
5	1	24		20.83	20.72	21.11		
5	12	0	16-QAM	19.87	19.93	19.66		
5	12	6		19.96	20	19.76		
5	12	11		19.98	20.02	19.74		
5	25	0		19.86	19.85	19.8		
10	1	0		/	21.8	/		
10	1	24		/	22.12	/		
10	1	49		1	21.81	/		
10	25	0	QPSK	1/2	20.82	/		
10	25	12		1	20.89	/		
10	25	24		/	20.87	/		
10	50	0		/	20.85	/		
10	1	0		/	20.94	/		
10	1	24		/	21.05	/		
10	1	49		/	20.93	/		
10	25	0	16-QAM	/	19.89	/		
10	25	12		/	19.96	/		
10	25	24		/	19.91	/		
10	50	0		/	19.84	/		



LTE Band 17 Maximum Average Power [dBm]							
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	
5	1	0		21.57	21.52	21.59	
5	1	12		22	21.98	21.92	
5	1	24		21.62	21.54	21.61	
5	12	0	QPSK	20.69	20.7	20.65	
5	12	6		20.7	20.71	20.7	
5	12	11		20.66	20.66	20.65	
5	25	0		20.68	20.71	20.67	
5	1	0		20.89	20.91	20.99	
5	1	12		21.38	21.38	21.36	
5	1	24		20.91	20.91	20.97	
5	12	0	16-QAM	19.78	19.93	19.7	
5	12	6		19.84	19.9	19.8	
5	12	11		19.78	19.85	19.71	
5	25	0		19.73	19.73	19.72	
10	1	0		21.62	21.6	21.63	
10	1	24		22.13	22.05	21.98	
10	1	49		21.07	21.12	21.19	
10	25	0	QPSK	20.85	20.89	20.93	
10	25	12		20.63	20.6	20.69	
10	25	24		20.33	20.32	20.39	
10	50	0		20.09	20.08	20.18	
10	1	0		21.35	21.39	21.41	
10	1	24		21.09	21.15	21.2	
10	1	49		20.89	20.91	20.95	
10	25	0	16-QAM	20.65	20.67	20.67	
10	25	12		20.39	20.46	20.45	
10	25	24		20.09	20.26	20.19	
10	50	0		19.84	19.98	19.93	



LTE Band 25 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
1.4	1	0		21.19	21.08	21.13
1.4	1	2		21.3	21.3	21.34
1.4	1	5		21.16	21.14	21.15
1.4	3	0	QPSK	21.32	21.28	21.22
1.4	3	1		21.38	21.33	21.28
1.4	3	2		21.35	21.31	21.27
1.4	6	0		20.26	20.16	20.2
1.4	1	0		20.1	20.4	20.25
1.4	1	2		20.24	20.54	20.35
1.4	1	5		20.1	20.37	20.26
1.4	3	0	16-QAM	20.38	20.33	20.16
1.4	3	1		20.39	20.38	20.2
1.4	3	2		20.36	20.24	20.19
1.4	6	0		19.42	19.29	19.23
3	1	0		21.16	21.13	21.13
3	1	7	QPSK	21.32	21.28	21.29
3	1	14		21.12	21.07	21.17
3	8	0		20.23	20.14	20.12
3	8	4		20.21	20.14	20.12
3	8	7		20.16	20.1	20.11
3	15	0		20.2	20.13	20.12
3	1	0	16-QAM	20.35	20.42	20.28
3	1	7		20.51	20.51	20.4
3	1	14		20.36	20.34	20.15
3	8	0		19.49	19.36	19.25
3	8	4		19.46	19.35	19.24
3	8	7		19.42	19.33	19.22
3	15	0		19.34	19.26	19.21



LTE Band 25 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0		21.09	21.08	21.04
5	1	12		21.33	21.3	21.28
5	1	24		21.1	21.08	21.03
5	12	0	QPSK	20.25	20.13	20.11
5	12	6		20.27	20.17	20.16
5	12	11		20.19	20.13	20.14
5	25	0		20.22	20.16	20.1
5	1	0		20.2	20.11	20.44
5	1	12		20.46	20.33	20.65
5	1	24		20.25	20.05	20.38
5	12	0	16-QAM	19.43	19.39	19.12
5	12	6		19.39	19.44	19.18
5	12	11		19.36	19.41	19.14
5	25	0		19.29	19.26	19.18
10	1	0		21.18	21.13	21.1
10	1	24	QPSK	21.27	21.25	21.2
10	1	49		21.17	21.1	21.17
10	25	0		20.33	20.3	20.26
10	25	12		20.3	20.26	20.21
10	25	24		20.32	20.2	20.23
10	50	0		20.32	20.25	20.26
10	1	0	16-QAM	20.37	20.39	20.35
10	1	24		20.56	20.51	20.48
10	1	49		20.41	20.39	20.18
10	25	0		19.52	19.42	19.46
10	25	12		19.47	19.4	19.42
10	25	24		19.47	19.33	19.38
10	50	0		19.43	19.37	19.36



LTE Band 25 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
15	1	0		21.42	21.36	21.37
15	1	37		21.13	21.1	21.13
15	1	74		20.83	20.87	20.88
15	36	0	QPSK	20.56	20.58	20.67
15	36	18		20.27	20.29	20.38
15	36	39		20.04	20.03	20.09
15	75	0		19.79	19.77	19.82
15	1	0		21.14	21.15	21.11
15	1	38		20.92	20.88	20.91
15	1	75		20.66	20.59	20.69
15	36	0	16-QAM	20.38	20.38	20.41
15	36	18		20.16	20.13	20.12
15	36	39		19.88	19.86	19.84
15	75	0		19.59	19.59	19.56
20	1	0		21.44	21.38	21.4
20	1	49		21.24	21.15	21.11
20	1	99		20.95	20.95	20.89
20	50	0	QPSK	20.74	20.7	20.69
20	50	24		20.47	20.42	20.4
20	50	49		20.24	20.16	20.16
20	100	0		20.04	19.94	19.91
20	1	0	16-QAM	21.21	21.15	21.1
20	1	49		21	20.86	20.86
20	1	99		20.73	20.63	20.65
20	50	0		20.47	20.38	20.39
20	50	24		20.18	20.12	20.11
20	50	49		19.9	19.84	19.9
20	100	0		19.61	19.6	19.61



LTE Band 26 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
1.4	1	0		21.68	21.6	21.5
1.4	1	2		21.73	21.64	21.62
1.4	1	5		21.65	21.53	21.54
1.4	3	0	QPSK	21.71	21.7	21.68
1.4	3	1		21.81	21.74	21.7
1.4	3	2		21.76	21.66	21.61
1.4	6	0		20.68	20.67	20.73
1.4	1	0		20.54	20.84	20.89
1.4	1	2		20.73	21	20.95
1.4	1	5		20.6	20.88	20.87
1.4	3	0	16-QAM	20.86	20.79	20.72
1.4	3	1		20.79	20.81	20.74
1.4	3	2		20.83	20.74	20.76
1.4	6	0		19.75	19.71	19.75
3	1	0		21.71	21.67	21.58
3	1	7	QPSK	21.81	21.75	21.72
3	1	14		21.65	21.6	21.6
3	8	0		20.75	20.68	20.71
3	8	4		20.78	20.71	20.7
3	8	7		20.75	20.72	20.63
3	15	0		20.74	20.73	20.66
3	1	0		20.95	20.93	20.87
3	1	7	16-QAM	21.05	21.08	21.11
3	1	14		20.97	20.91	20.93
3	8	0		19.92	19.84	19.83
3	8	4		19.98	19.88	19.76
3	8	7		19.93	19.86	19.74
3	15	0		19.8	19.75	19.72



LTE Band 26 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0		21.66	21.59	21.45
5	1	12		21.87	21.78	21.71
5	1	24		21.59	21.57	21.53
5	12	0	QPSK	20.7	20.62	20.64
5	12	6		20.8	20.69	20.68
5	12	11		20.72	20.78	20.57
5	25	0		20.72	20.73	20.62
5	1	0		20.78	20.66	20.94
5	1	12		21.07	20.93	21.15
5	1	24		20.8	20.65	21
5	12	0	16-QAM	19.83	19.81	19.64
5	12	6		19.92	19.89	19.65
5	12	11		19.83	19.91	19.53
5	25	0		19.73	19.72	19.66
10	1	0		21.67	21.62	21.58
10	1	24	QPSK	21.75	21.77	21.65
10	1	49		21.62	21.59	21.59
10	25	0		20.87	20.69	20.65
10	25	12		20.83	20.77	20.66
10	25	24		20.72	20.82	20.54
10	50	0		20.78	20.72	20.58
10	1	0	16-QAM	20.93	20.9	20.91
10	1	24		21.08	21.03	20.94
10	1	49		20.89	20.92	20.89
10	25	0		19.95	19.76	19.78
10	25	12		19.9	19.84	19.85
10	25	24		19.77	19.87	19.65
10	50	0		19.77	19.71	19.57



	LTE Band 26 Maximum Average Power [dBm]								
BW [MHz]	RB Size	RB Offset	Mod	Mod Lowest		Highest			
15	1	0		21.9	21.81	21.77			
15	1	37		21.63	21.61	21.57			
15	1	74		21.36	21.4	21.33			
15	36	0	QPSK	21.08	21.12	21.13			
15	36	18		20.84	20.9	20.85			
15	36	39		20.56	20.62	20.57			
15	75	0		20.3	20.33	20.31			
15	1	0		21.61	21.59	21.54			
15	1	38		21.38	21.3	21.29			
15	1	75		21.11	21.04	21.08			
15	36	0	16-QAM	20.89	20.76	20.86			
15	36	18		20.61	20.47	20.59			
15	36	39		20.39	20.18	20.38			
15	75	0		20.14	19.9	20.14			



	LTE B	Band 41 Maximu	um Average I	Power [dBm]	
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0		20.21	20.22	20.49
5	1	12		20.01	20.02	20.26
5	1	24		19.79	19.75	19.99
5	12	0	QPSK	19.58	19.49	19.76
5	12	6		19.32	19.22	19.47
5	12	11		19.05	18.97	19.2
5	25	0		18.78	18.72	18.98
5	1	0		19.96	19.96	20.23
5	1	12		19.75	19.7	20
5	1	24		19.48	19.46	19.78
5	12	0	16-QAM	19.22	19.23	19.57
5	12	6		19.01	18.98	19.36
5	12	11		18.76	18.76	19.09
5	25	0		18.52	18.53	18.82
10	1	0		19.24	19.4	19.46
10	1	24		18.94	19.17	19.21
10	1	49		18.66	18.97	19
10	25	0	QPSK	18.44	18.7	18.71
10	25	12		18.23	18.47	18.42
10	25	24		17.97	18.25	18.16
10	50	0		17.73	18.01	17.92
10	1	0		19.03	19.16	19.19
10	1	24		18.82	18.87	18.96
10	1	49		18.56	18.58	18.67
10	25	0	16-QAM	18.26	18.36	18.44
10	25	12		18	18.14	18.19
10	25	24		17.79	17.9	17.98
10	50	0		17.58	17.64	17.71



	LTE B	Band 41 Maxim	num Average	Power [dBm]	
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
15	1	0		20.25	20.28	20.53
15	1	37		20.02	20.05	20.24
15	1	74		19.81	19.79	20.02
15	36	0	QPSK	19.52	19.52	19.82
15	36	18		19.27	19.25	19.57
15	36	39		19.05	19.04	19.31
15	75	0		18.77	18.75	19.03
15	1	0		20	19.98	20.3
15	1	38		19.76	19.77	20.01
15	1	75		19.49	19.49	19.74
15	36	0	16-QAM	19.2	19.28	19.5
15	36	18		18.97	19.08	19.26
15	36	39		18.71	18.78	19
15	75	0		18.44	18.55	18.74
20	1	0		20.31	20.34	20.58
20	1	49		20.07	20.12	20.3
20	1	99		19.85	19.91	20.04
20	50	0	QPSK	19.61	19.69	19.81
20	50	24		19.4	19.44	19.52
20	50	49		19.19	19.17	19.31
20	100	0		18.97	18.9	19.1
20	1	0		20.1	20.13	20.34
20	1	49		19.85	19.88	20.08
20	1	99		19.58	19.66	19.84
20	50	0	16-QAM	19.33	19.44	19.61
20	50	24		19.04	19.21	19.35
20	50	49		18.78	18.98	19.11
20	100	0		18.53	18.72	18.91



4. PEAK-TO-AVERAGE RATIO

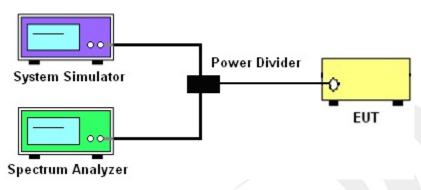
4.1 DESCRIPTION OF THE CONDUCTED OUTPUT POWER MEASUREMENT

4.1.1 MEASUREMENT METHOD

Use one of the procedures presented in 4.1 to measure the total peak power and record as PPk. Use one of the applicable procedures presented 4.2 to measure the total average power and record as PAvg. Both the peak and average power levels must be expressed in the same logarithmic units (e.g., dBm). Determine the PAPR from:

PAPR (dB) = PPk (dBm) - PAvg (dBm).

4.1.2 TEST SETUP



4.1.3 TEST PROCEDURES

- 1. The testing follows FCC KDB 971168 D01 v03r01 Section 5.7.2 and ANSI C63.26 2015 Section 5.2.3.4
- 2. The EUT was connected to spectrum and system simulator via a power divider
- 3. Select lowest, middle, and highest channels for each band and different modulation.
- 4. Set the test probe and measure the peak and average power of the spectrum analyzer
- 5. Record the deviation as Peak to Average Ratio.

	LTE						
LTE BW	1.4M	3M	5M	10M	15M	20M	
Span	3MHz	6MHz	10MHz	20MHz	30MHz	40MHz	
RBW	30kHz	30kHz	100kHz	100kHz	300kHz	300kHz	
VBW	100kHz	100kHz	300kHz	300kHz	1000kHz	1000kHz	
Detector	PK/AVG	PK/AVG	PK/AVG	PK/AVG	PK/AVG	PK/AVG	
Trace	Max	Max	Max	Max	Max	Max	
Sweep Count	Auto	Auto	Auto	Auto	Auto	Auto	



4.1.4 TEST RESULTS

LTE BAND 2

	LTE Band 2 PAR [dBm]								
DW IMIL-1	DD Ci-a	Madulation	Lowest	Middle	Highest				
BW [MHz]	RB Size	Modulation	P-A	P-A	P-A				
20	1	ODCK	5.28	5.5	4.9				
20	100	QPSK	5.76	5.8	5.54				
20	1	46 000	6.49	6.31	5.5				
20	100	16-QAM	6.61	6.58	6.44				
Limit				≤13dBm					

LTE BAND 4

IL BAND 4									
	LTE Band 4 PAR [dBm]								
DVA/ FMI I-1	DD Ci	Modulation	Lowest	Middle	Highest				
BW [MHz]	RB Size	Modulation	Modulation P-A		P-A				
20	1	ODSK	5.38	4.31	4.8				
20	100	QPSK	5.77	5.43	5.24				
20	1	16 001	5.75	5.34	5.62				
20	100	16-QAM	6.41	6.22	5.9				
Limit			≤13dBm						

	LTE Band 5 PAR [dBm]								
DW IMU-1	DD Cine	Modulation	Lowest	Middle	Highest				
BW [MHz]	RB Size	Modulation	P-A	P-A	P-A				
10	1	QPSK	4.39	5.38	5.15				
10	50	QF3N	5.61	5.52	5.81				
10	1	40.0044	5.14	6.25	5.9				
10	50	16-QAM	6.44	6.38	6.58				
	Limit			≤13dBm					



	LTE Band 7 PAR [dBm]							
DW/IMIL-1	DD Cine	Modulation	Lowest	Middle	Highest			
BW [MHz]	RB Size	Modulation	P-A	P-A	P-A			
20	1	ODCK	4.55	4.78	4.16			
20	100	QPSK	5.37	5.47	5.4			
20	1	16 OAM	5.56	5.54	4.73			
20	100	16-QAM	6.15	6.16	6.19			
Limit				≤13dBm				

LTE BAND 12

	LTE Band 12 PAR [dBm]								
DVA/ LWITT-1	DD Cine	Medulation	Lowest	Middle	Highest				
BW [MHz]	RB Size	RB Size Modulation		P-A	P-A				
10	1	QPSK	4.89	4.4	4.21				
10	50	QFSK	5.6	5.58	5.52				
10	1	46 OAM	5.52	5.31	4.97				
10	50	16-QAM	6.33	6.38	6.3				
	Limit			≤13dBm					

ITE BAND 13

LIE BAND 13									
LTE Band 13 PAR [dBm]									
DW/IMH=1	DD Cine	Modulation	Middle						
BW [MHz]	RB Size	Modulation	P-A						
10	1	ODSK	3.89						
10	50	QPSK	4.92						
10	1	16 OAM	4.7						
10	10 50 16-QAM								
	Limit								

	LTE Band 17 PAR [dBm]							
DW/ [MIL=1	DD Cino	Modulation	Lowest	Middle	Highest			
BW [MHz]	RB Size	Modulation	P-A	P-A	P-A			
10	1	ODEK	4.38	4.05	4.22			
10	50	- QPSK	5.48	5.42	5.38			
10	1	16-QAM	5.57	4.79	5.25			
10	50	TO-QAIVI	6.34	6.27	6.23			
Limit				≤13dBm				



	LTE Band 25 PAR [dBm]							
DW/MH=1	RB Size	Modulation	Lowest	Middle	Highest			
BW [MHz]	RD SIZE	Modulation	P-A	P-A	P-A			
20	1	QPSK	4.67	5.13	4.89			
20	100	QPSK	5.79	5.75	5.56			
20	1	40 000	5.27	6.16	5.47			
20	100	16-QAM	6.48	6.57	6.31			
Limit				≤13dBm				

LTE BAND 26

LIL BAND 20										
LTE Band 26 PAR [dBm]										
DVA/ FMI I—1	DD Ci-c	Madulation	Lowest	Middle	Highest					
BW [MHz]	RB Size	Modulation	P-A	P-A	P-A					
15	1	QPSK	5.16	5.23	5.35					
15	75	QPSK	6.04	5.94	5.98					
15	1	16 OAM	6.43	5.79	5.98					
15	75	- 16-QAM	6.6	6.55	6.61					
	Limit		≤13dBm							

LTE BAND 41

LIL DAND 41										
LTE Band 41 PAR [dBm]										
DVA/ FMI I=1	DD Ci	Modulation	Lowest	Middle	Highest					
BW [MHz]	RB Size	Modulation	P-A	P-A	P-A					
20	1	QPSK	4.6	4.72	3.93					
20	100	QP3K	6.16	5.73	4.89					
20	1	46 000	5.11	5.54	4.71					
20	100	16-QAM	6.32	6.22	5.74					
	Limit		≤13dBm							

NOTE:Test chart See Appendix D



5. RADIATED POWER AND EFFECTIVE ISOTROPIC RADIATED POWER

5.1 DESCRIPTION OF THE ERP/EIRP MEASUREMENT

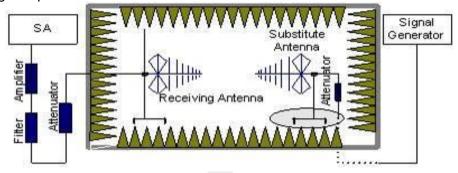
5.1.1 MEASUREMENT METHOD

Effective radiated power output measurements by substitution method according to ANSI C63.26 2015, and the spectrum analyzer configuration follows KDB 971168 D01 Power Meas. License Digital Systems. Mobile and portable (hand-held) stations operating are limited to average ERP, Equivalent isotropic radiated power output measurements by substitution method according to ANSI C63.26 2015, and the spectrum analyzer configuration follows KDB 971168 D01 Power Meas, Mobile and portable (hand-held) stations operating are limited to average EIRP.

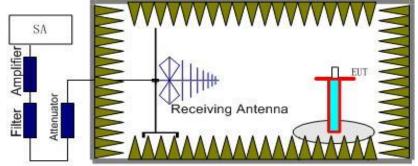
5.1.2 TEST SETUP

The procedure of radiated spurious emissions is as follows:

a) Pre-calibration With pre-calibration method, the Radiated Spurious Emissions(RSE) is calculated as, RSE=Rx(dBuV)+CL(dB)+SA(dB)+Gain(dBi)-107(dBuV to dBm)The SA is calibrated using following setup.



b) EUT was placed on a 1.5 meter high non-conductive stand at a 3 meter test distance from the receive antenna. A receiving antenna was placed on the antenna mast 3 meters from the test item for emission measurements. The height of receiving antenna is 0.8m. The test setup refers to figure below. Detected emissions were maximized at each frequency by rotating the test item and adjusting the receiving antenna polarization. The radiated emission measurements of all non-harmonic and harmonics of the transmit frequency through the 10th harmonic were measured with peak detector and 1MHz bandwidth.



Radiated emissions measurements were made only at the upper, middle, and lower carrier frequencies It was decided that measurements at these three carrier frequencies would be sufficient to demonstrate compliance with emissions limits because it was seen that all the significant spurs occur well outside the band and no radiation was seen from a carrier in one block of any band into any of the other blocks.

The substitution method is used. Substitution values at each frequency are measured before and saved to the test software. A "reference path loss" is established and the ARpl is the attenuation of "reference path loss", and including the gain of receive antenna, the gain of the preamplifier, the cable loss and the air loss. The measurement results are obtained as described below: Power=PMea+ARpl



5.1.3 TEST PROCEDURES

- 1. The testing follows FCC KDB 971168 D01v03r01 Section 5.6. and ANSI C63.26 2015 Section 5.2.
- 2. The EUT was placed on a non-conductive rotating platform 1.5 meters high in a semi-anechoic chamber. The radiated emission at the fundamental frequency was measured at 3 m with a test antenna and a spectrum analyzer with Peak detector.
- 3. During the measurement, the system simulator parameters were set to force the EUTtransmitting at maximum output power. The maximum emission was recorded from analyzer power level (LVL) from the 360 degrees rotation of the turntable and the test antenna raised and lowered over a range from 1 to 4 meters in both horizontally and vertically polarized orientations.
- 4. Effective Isotropic Radiated Power (EIRP) was measured by substitution method according to ANSI C63.26 2015. The EUT was replaced by dipole antenna (substitution antenna) at same location, and then a known power from S.G. was applied into the dipole antenna through a Tx cable, and then recorded the maximum Analyzer reading through raised and lowered the test antenna. The correction factor (in dB) = S.G. Tx Cable loss + Substitution antenna gain -Analyzer reading. Then the EUT's EIRP was calculated with the correction factor, EIRP/ERP= LVL +Correction factor

5.RB Set greater than bandwidth, Vb Set spectrum analyzer Maximum support.





5.1.4 TEST RESULTS

Note:Test is divided into three directions, X/Y/Z. X pattern for the worst.

			Radi	ated Power (EIRP) for L	TE Band 2 /	1.4M				
						Result					
Modulation		RB	Channel	S G.Level	Cable	Gain	PMeas	Polarization	Conclusion		
Modulation	0:	04	Chamilei	(dBm)	loss	(dBi)	E.R.P(dBm)	Of Max.	Conclusion		
	Size	Offset		(ubiii)	1000	(dbi)	L.IX.I (dbiii)	ERP			
	1	0	Lowest	10.52	2.37	10.40	18.55	Horizontal	Pass		
	1	0	Middle	10.53	2.39	10.42	18.56	Horizontal	Pass		
QPSK	1	0	Highest	10.56	2.40	10.44	18.60	Horizontal	Pass		
QFSK	1	0	Lowest	11.98	2.37	10.40	20.01	Vertical	Pass		
	1	0	Middle	11.86	2.39	10.42	19.89	Vertical	Pass		
	1	0	Highest	11.89	2.40	10.44	19.93	Vertical	Pass		
	1	0	Lowest	9.77	2.37	10.40	17.80	Horizontal	Pass		
	1	0	Middle	9.92	2.39	10.42	17.95	Horizontal	Pass		
16QAM	1	0	Highest	9.49	2.40	10.44	17.53	Horizontal	Pass		
TOQAW	1	0	Lowest	11.11	2.37	10.40	19.14	Vertical	Pass		
	1	0	Middle	11.25	2.39	10.42	<mark>19.28</mark>	Vertical	Pass		
	1	0	Highest	10.81	2.40	10.44	18.85	Vertical	Pass		
Limit	EIRP<	RP<2W=33dBm									



			Rad	liated Power	(EIRP) for L	TE Band 2	/ 3M					
	-	RB				Result						
Modulation		(D	Channel	S G.Level	Cable	Gain	PMeas	Polarization	Conclusion			
iviodulation	Size	Offset	Chamilei		loss	(dBi)	1	Of Max.	Conclusion			
	Size	Oliset		(dBm)	1055 (UDI) E.K.P(UD	E.R.P(dBm)	ERP					
	1	0	Lowest	10.53	2.37	10.40	18.56	Horizontal	Pass			
	1	0	Middle	10.5	2.39	10.42	18.53	Horizontal	Pass			
QPSK	1	0	Highest	10.45	2.40	10.44	18.49	Horizontal	Pass			
QFSK	1	0	Lowest	11.96	2.37	10.40	<mark>19.99</mark>	Vertical	Pass			
	1	0	Middle	11.94	2.39	10.42	19.97	Vertical	Pass			
	1	0	Highest	11.87	2.40	10.44	19.91	Vertical	Pass			
	1	0	Lowest	9.66	2.37	10.40	17.69	Horizontal	Pass			
	1	0	Middle	9.83	2.39	10.42	17.86	Horizontal	Pass			
16QAM	1	0	Highest	9.53	2.40	10.44	17.57	Horizontal	Pass			
TOQAM	1	0	Lowest	11.05	2.37	10.40	19.08	Vertical	Pass			
	1	0	Middle	11.2	2.39	10.42	<mark>19.23</mark>	Vertical	Pass			
	1	0	Highest	10.99	2.40	10.44	19.03	Vertical	Pass			
Limit	EIRP<	P<2W=33dBm										

			Rad	liated Power	(EIRP) for I	TE Band 2	/ 5M				
	-	20									
Modulation	RB		Channal	S G.Level	Cabla	Cain	DMass	Polarization	Conclusion		
Modulation	0:	Offset	Channel		Cable	Gain (dBi)	PMeas E.R.P(dBm)	Of Max.	Conclusion		
	Size	Size Oliset			loss	(dbi)		ERP			
QPSK	1	0	Lowest	10.5	2.37	10.40	18.53	Horizontal	Pass		
	1	0	Middle	10.29	2.39	10.42	18.32	Horizontal	Pass		
	1	0	Highest	10.31	2.40	10.44	18.35	Horizontal	Pass		
QFSN	1	0	Lowest	11.88	2.37	10.40	19.91	Vertical	Pass		
	1	0	Middle	11.69	2.39	10.42	19.72	Vertical	Pass		
	1	0	Highest	11.75	2.40	10.44	<mark>19.79</mark>	Vertical	Pass		
	1	0	Lowest	9.62	2.37	10.40	17.65	Horizontal	Pass		
	1	0	Middle	9.35	2.39	10.42	17.38	Horizontal	Pass		
16QAM	1	0	Highest	9.83	2.40	10.44	17.87	Horizontal	Pass		
IUQAW	1	0	Lowest	11.07	2.37	10.40	19.10	Vertical	Pass		
	1	0	Middle	10.74	2.39	10.42	18.77	Vertical	Pass		
	1	0	Highest	11.2	2.40	10.44	<mark>19.24</mark>	Vertical	Pass		
Limit	EIRP<	RP<2W=33dBm									



			Rad	iated Power	(EIRP) for L	TE Band 2 /	10M					
	_	RB				Result						
Modulation	r	(D	Channel	S G.Level	Cable	Gain	PMeas	Polarization	Conclusion			
iviodulation	Size	Offset	Charinei	(dBm) loss			Of Max.	Conclusion				
	Size	Oliset			1055	(dBi)	E.R.P(dBm)	ERP				
	1	0	Lowest	10.58	2.37	10.40	18.61	Horizontal	Pass			
	1	0	Middle	10.44	2.39	10.42	18.47	Horizontal	Pass			
QPSK	1	0	Highest	10.37	2.40	10.44	18.41	Horizontal	Pass			
QFSK	1	0	Lowest	11.91	2.37	10.40	<mark>19.94</mark>	Vertical	Pass			
	1	0	Middle	11.81	2.39	10.42	19.84	Vertical	Pass			
	1	0	Highest	11.77	2.40	10.44	19.81	Vertical	Pass			
	1	0	Lowest	9.73	2.37	10.40	17.76	Horizontal	Pass			
	1	0	Middle	9.5	2.39	10.42	17.53	Horizontal	Pass			
16QAM	1	0	Highest	9.76	2.40	10.44	17.80	Horizontal	Pass			
TOQAM	1	0	Lowest	11.08	2.37	10.40	19.11	Vertical	Pass			
	1	0	Middle	10.99	2.39	10.42	19.02	Vertical	Pass			
	1	0	Highest	11.16	2.40	10.44	<mark>19.20</mark>	Vertical	Pass			
Limit	EIRP<	<2W=33dBm										

			Rad	iated Power	(EIRP) for L	TE Band 2 /	15M				
	-	RB			Result						
Modulation	ΝĎ		Channel	S G.Level	Cable	Gain	DMaga	Polarization	Conclusion		
Modulation	Size	Offset	Chamilei	(dBm) loss		(dBi)		Of Max.	Conclusion		
	Size	e Oliset			1055	(ubi)		ERP			
	1	0	Lowest	10.44	2.37	10.40	18.47	Horizontal	Pass		
	1	0	Middle	10.4	2.39	10.42	18.43	Horizontal	Pass		
QPSK	1	0	Highest	10.59	2.40	10.44	18.63	Horizontal	Pass		
QI SIX	1	0	Lowest	11.84	2.37	10.40	19.87	Vertical	Pass		
	1	0	Middle	11.89	2.39	10.42	19.92	Vertical	Pass		
	1	0	Highest	11.99	2.40	10.44	<mark>20.03</mark>	Vertical	Pass		
	1	0	Lowest	10.2	2.37	10.40	18.23	Horizontal	Pass		
	1	0	Middle	10.16	2.39	10.42	18.19	Horizontal	Pass		
16QAM	1	0	Highest	10.3	2.40	10.44	18.34	Horizontal	Pass		
IOQAM	1	0	Lowest	11.69	2.37	10.40	19.72	Vertical	Pass		
	1	0	Middle	11.61	2.39	10.42	19.64	Vertical	Pass		
	1	0	Highest	11.69	2.40	10.44	<mark>19.73</mark>	Vertical	Pass		
Limit	EIRP<	RP<2W=33dBm									



			Rac	diated Power	(EIRP) for L	TE Band 2 / 2	20M				
	-	RB				Result					
Modulation	ΝĎ		Channel	S G.Level	Cable	Gain	PMeas	Polarization	Conclusion		
Modulation	Size	Offset	Channel	(dBm)	loss			Of Max.	Conclusion		
	Size	Oliset			1033	(dBi)	E.R.P(dBm)	ERP			
	1	0	Lowest	10.53	2.37	10.40	18.56	Horizontal	Pass		
	1	0	Middle	10.43	2.39	10.42	18.46	Horizontal	Pass		
QPSK	1	0	Highest	10.6	2.40	10.44	18.64	Horizontal	Pass		
QFSK	1	0	Lowest	11.95	2.37	10.40	19.98	Vertical	Pass		
	1	0	Middle	11.88	2.39	10.42	19.91	Vertical	Pass		
	1	0	Highest	12.03	2.40	10.44	20.07	Vertical	Pass		
	1	0	Lowest	10.31	2.37	10.40	18.34	Horizontal	Pass		
	1	0	Middle	10.29	2.39	10.42	18.32	Horizontal	Pass		
16QAM	1	0	Highest	10.41	2.40	10.44	18.45	Horizontal	Pass		
TOQAM	1	0	Lowest	11.7	2.37	10.40	19.73	Vertical	Pass		
	1	0	Middle	11.63	2.39	10.42	19.66	Vertical	Pass		
	1	0	Highest	11.72	2.40	10.44	<mark>19.76</mark>	Vertical	Pass		
Limit	EIRP<	P<2W=33dBm									



			Radi	ated Power (EIRP) for L	ΓE Band 4 /	1.4M		
	_					Result			
Modulation	F	RB	Channel	S G.Level	Cable	Gain	PMeas	Polarization	Conclusion
Modulation	Size	04	Channel	(dBm)	loss	(dBi)	E.R.P(dBm)	Of Max.	Conclusion
	Size Olise	Offset	'	(dDiii)	1033	(ubi)	Z.R.I (dDIII)	ERP	
	1	0	Lowest	10.77	2.35	10.13	18.55	Horizontal	Pass
	1	0	Middle	10.64	2.36	10.16	18.44	Horizontal	Pass
QPSK	1	0	Highest	10.65	2.37	10.22	18.50	Horizontal	Pass
QFSK	1	0	Lowest	12.22	2.35	10.13	20.00	Vertical	Pass
	1	0	Middle	12.03	2.36	10.16	19.83	Vertical	Pass
	1	0	Highest	12.04	2.37	10.22	19.89	Vertical	Pass
	1	0	Lowest	9.74	2.35	10.13	17.52	Horizontal	Pass
	1	0	Middle	9.91	2.36	10.16	17.71	Horizontal	Pass
16QAM	1	0	Highest	9.86	2.37	10.22	17.71	Horizontal	Pass
TOQAM	1	0	Lowest	11.1	2.35	10.13	18.88	Vertical	Pass
	1	0	Middle	11.28	2.36	10.16	19.08	Vertical	Pass
	1	0	Highest	11.3	2.37	10.22	<mark>19.15</mark>	Vertical	Pass
Limit	EIRP<	:1W=30d	Bm						

			Pac	liated Powe	r (EIDD) for	I TE Band	4 / 2M				
			Kau	nated Fowe	I (EIKP) IOI	Resu					
Modulation	F	RB 	Channel	S	Cable	Gain	PMeas	Polarization	Conclusion		
	Size	Offset		G.Level (dBm)	loss		E.R.P(dBm)	Of Max. ERP	Controladion		
	1	0	Lowest	10.95	2.35	10.13	18.73	Horizontal	Pass		
	1	0	Middle	10.88	2.36	10.16	18.68	Horizontal	Pass		
ODCK	1	0	Highest	10.85	2.37	10.22	18.70	Horizontal	Pass		
QPSK	1	0	Lowest	12.29	2.35	10.13	20.07	Vertical	Pass		
	1	0	Middle	12.18	2.36	10.16	19.98	Vertical	Pass		
	1	0	Highest	12.22	2.37	10.22	20.07	Vertical	Pass		
	1	0	Lowest	9.96	2.35	10.13	17.74	Horizontal	Pass		
	1	0	Middle	10.03	2.36	10.16	17.83	Horizontal	Pass		
400 AM	1	0	Highest	10.13	2.37	10.22	17.98	Horizontal	Pass		
16QAM	1	0	Lowest	11.4	2.35	10.13	19.18	Vertical	Pass		
	1	0	Middle	11.42	2.36	10.16	19.22	Vertical	Pass		
	1	0	Highest	11.44	2.37	10.22	19.29	Vertical	Pass		
Limit	EIRP	P<1W=30dBm									



			Rad	liated Power	(EIRP) for L	TE Band 4	′ 5M			
	-	RB				Result				
Modulation	ND		Channel	S G.Level	Cable	Gain	PMeas	Polarization	Conclusion	
iviodulation	Size	Offset	Charinei	(dBm)	loss	(dBi)	E.R.P(dBm)	Of Max.	Conclusion	
	Size	Oliset		(dbiii)		(ubi)		ERP		
	1	0	Lowest	10.72	2.35	10.13	18.50	Horizontal	Pass	
	1	0	Middle	10.77	2.36	10.16	18.57	Horizontal	Pass	
QPSK	1	0	Highest	10.78	2.37	10.22	18.63	Horizontal	Pass	
QFSK	1	0	Lowest	12.21	2.35	10.13	<mark>19.99</mark>	Vertical	Pass	
	1	0	Middle	12.18	2.36	10.16	19.98	Vertical	Pass	
	1	0	Highest	12.08	2.37	10.22	19.93	Vertical	Pass	
	1	0	Lowest	9.9	2.35	10.13	17.68	Horizontal	Pass	
	1	0	Middle	9.86	2.36	10.16	17.66	Horizontal	Pass	
16QAM	1	0	Highest	9.83	2.37	10.22	17.68	Horizontal	Pass	
TOQAM	1	0	Lowest	11.23	2.35	10.13	19.01	Vertical	Pass	
	1	0	Middle	11.22	2.36	10.16	19.02	Vertical	Pass	
	1	0	Highest	11.33	2.37	10.22	<mark>19.18</mark>	Vertical	Pass	
Limit	EIRP<	RP<1W=30dBm								

			- A .		(EIDD) (TE 5 (1. /	4014				
	ı		Rad	iated Power	(EIRP) for L	IE Band 4/	TUM				
		RB	\ \								
Modulation	ND		Channel	S G.Level	Cable	Gain	PMeas	Polarization	0		
Modulation	0:	0",	Chamilei					Of Max.	Conclusion		
	Size	Offset		(dBm)	loss	(dBi)	E.R.P(dBm)	ERP			
	1	0	Lowest	10.73	2.35	10.13	18.51	Horizontal	Pass		
	1	0	Middle	10.74	2.36	10.16	18.54	Horizontal	Pass		
QPSK	1	0	Highest	10.79	2.37	10.22	18.64	Horizontal	Pass		
QPSK	1	0	Lowest	12.19	2.35	10.13	19.97	Vertical	Pass		
	1	0	Middle	12.2	2.36	10.16	20.00	Vertical	Pass		
	1	0	Highest	12.1	2.37	10.22	19.95	Vertical	Pass		
	1	0	Lowest	10.04	2.35	10.13	17.82	Horizontal	Pass		
	1	0	Middle	10.08	2.36	10.16	17.88	Horizontal	Pass		
160011	1	0	Highest	9.83	2.37	10.22	17.68	Horizontal	Pass		
16QAM	1	0	Lowest	11.49	2.35	10.13	<mark>19.27</mark>	Vertical	Pass		
	1	0	Middle	11.43	2.36	10.16	19.23	Vertical	Pass		
	1	0	Highest	11.28	2.37	10.22	19.13	Vertical	Pass		
Limit	EIRP<	IRP<1W=30dBm									



			Radi	iated Power	(EIRP) for L	TE Band 4 /	15M		
	-	RB				Result			
Modulation	ŗ	(D	Channel	S G.Level	Cable	Gain	PMeas	Polarization	Conclusion
Wodulation	Size	Offset	Chamilei	(dBm)	loss	(dBi)	E.R.P(dBm)	Of Max.	Conclusion
	Size	Oliset		(dBIII)	1055	(ubi)	E.K.F(dbiii)	ERP	
	1	0	Lowest	11.01	2.35	10.13	18.79	Horizontal	Pass
	1	0	Middle	10.91	2.36	10.16	18.71	Horizontal	Pass
QPSK	1	0	Highest	10.92	2.37	10.22	18.77	Horizontal	Pass
QFSK	1	0	Lowest	12.46	2.35	10.13	20.24	Vertical	Pass
	1	0	Middle	12.39	2.36	10.16	20.19	Vertical	Pass
	1	0	Highest	12.4	2.37	10.22	20.25	Vertical	Pass
	1	0	Lowest	10.68	2.35	10.13	18.46	Horizontal	Pass
	1	0	Middle	10.78	2.36	10.16	18.58	Horizontal	Pass
16QAM	1	0	Highest	10.71	2.37	10.22	18.56	Horizontal	Pass
TOQAM	1	0	Lowest	12.17	2.35	10.13	19.95	Vertical	Pass
	1	0	Middle	12.13	2.36	10.16	19.93	Vertical	Pass
	1	0	Highest	12.15	2.37	10.22	20.00	Vertical	Pass
Limit	EIRP<1W=30dBm								

			Rad	iated Power	(EIRP) for L	TE Band 4 /	20M		
	-	3 D				Result			
Modulation	F	RB	Channal	0.01.000	Cabla	Cain	DMass	Polarization	Conclusion
iviodulation	0:	04	Channel	S G.Level	Cable	Gain	PMeas	Of Max.	Conclusion
	Size	Offset		(dBm)	loss	(dBi)	E.R.P(dBm)	ERP	
	1	0	Lowest	11.2	2.35	10.13	18.98	Horizontal	Pass
	1	0	Middle	10.94	2.36	10.16	18.74	Horizontal	Pass
QPSK	1	0	Highest	10.98	2.37	10.22	18.83	Horizontal	Pass
QPSK	1	0	Lowest	12.6	2.35	10.13	20.38	Vertical	Pass
	1	0	Middle	12.42	2.36	10.16	20.22	Vertical	Pass
	1	0	Highest	12.39	2.37	10.22	20.24	Vertical	Pass
	1	0	Lowest	10.73	2.35	10.13	18.51	Horizontal	Pass
	1	0	Middle	10.79	2.36	10.16	18.59	Horizontal	Pass
16QAM	1	0	Highest	10.67	2.37	10.22	18.52	Horizontal	Pass
IOQAW	1	0	Lowest	12.18	2.35	10.13	<mark>19.96</mark>	Vertical	Pass
	1	0	Middle	12.12	2.36	10.16	19.92	Vertical	Pass
	1	0	Highest	12.03	2.37	10.22	19.88	Vertical	Pass
Limit	EIRP<	:1W=30d	Bm						



			Rad	iated Power	(EIRP) for L	TE Band 5	/ 1.4M		
	_	25				Result			
Modulation		RB	Channel	S G.Level	Cable	Gain	PMeas	Polarization	Conclusion
Wiodulation	0:	04	Charinei	(dBm)	loss	(dBi)	E.R.P(dBm)	Of Max.	Conclusion
	Size	Offset		(ubiii)	1033	(ubi)	L.IX.I (dbiii)	EIRP	
	1	0	Lowest	13.73	1.27	6.70	19.16	Horizontal	Pass
	1	0	Middle	13.76	1.28	6.70	19.18	Horizontal	Pass
QPSK	1	0	Highest	13.59	1.29	6.70	19.00	Horizontal	Pass
QFSK	1	0	Lowest	15.1	1.27	6.70	20.53	Vertical	Pass
	1	0	Middle	15.08	1.28	6.70	20.50	Vertical	Pass
	1	0	Highest	14.99	1.29	6.70	20.40	Vertical	Pass
	1	0	Lowest	12.64	1.27	6.70	18.07	Horizontal	Pass
	1	0	Middle	12.98	1.28	6.70	18.40	Horizontal	Pass
16QAM	1	0	Highest	13.01	1.29	6.70	18.42	Horizontal	Pass
TOQAIVI	1	0	Lowest	14.12	1.27	6.70	19.55	Vertical	Pass
	1	0	Middle	14.41	1.28	6.70	19.83	Vertical	Pass
	1	0	Highest	14.44	1.29	6.70	<mark>19.85</mark>	Vertical	Pass
Limit	ERP<	7W=38.4	5dBm						

			Radia	ted Power (EIRP) for	LTE Ba	nd 5 / 3M		
		DD.				R	Result		
Modulation		RB	Channel	S	Cable	Gain	PMeas	Polarization	Conclusion
Wodulation	Size	Offset	Charmer	G.Level (dBm)	loss	(dBi)	E.R.P(dBm)	Of Max. EIRP	Conclusion
	1	0	Lowest	13.72	1.27	6.70	19.15	Horizontal	Pass
	1	0	Middle	13.86	1.28	6.70	19.28	Horizontal	Pass
QPSK	1	0	Highest	13.69	1.29	6.70	19.10	Horizontal	Pass
QFSN	1	0	Lowest	15.11	1.27	6.70	20.54	Vertical	Pass
	1	0	Middle	15.17	1.28	6.70	20.59	Vertical	Pass
	1	0	Highest	15.05	1.29	6.70	20.46	Vertical	Pass
	1	0	Lowest	13.02	1.27	6.70	18.45	Horizontal	Pass
	1	0	Middle	12.98	1.28	6.70	18.40	Horizontal	Pass
16QAM	1	0	Highest	13.17	1.29	6.70	18.58	Horizontal	Pass
IOWAIVI	1	0	Lowest	14.41	1.27	6.70	19.84	Vertical	Pass
	1	0	Middle	14.41	1.28	6.70	19.83	Vertical	Pass
	1	0	Highest	14.54	1.29	6.70	19.95	Vertical	Pass
Limit	ERP<	7W=38.45	idBm						



			Rac	liated Power	(EIRP) for	LTE Band 5	5 / 5M		
		RB				Result	t .		
Modulation	ľ	Λ D	Channel	S G.Level	Cable	Gain	PMeas	Polarization	Conclusion
IVIOGUIATION	Size	Offset	Channel		loss			Of Max.	Conclusion
	Size	Oliset		(dBm)	1088	(dBi)	E.R.P(dBm)	EIRP	
	1	0	Lowest	13.81	1.27	6.70	19.24	Horizontal	Pass
	1	0	Middle	13.87	1.28	6.70	19.29	Horizontal	Pass
QPSK	1	0	Highest	14.01	1.29	6.70	19.42	Horizontal	Pass
QFSK	1	0	Lowest	15.19	1.27	6.70	20.62	Vertical	Pass
	1	0	Middle	15.29	1.28	6.70	20.71	Vertical	Pass
	1	0	Highest	15.42	1.29	6.70	20.83	Vertical	Pass
	1	0	Lowest	13.73	1.27	6.70	19.16	Horizontal	Pass
	1	0	Middle	13.64	1.28	6.70	19.06	Horizontal	Pass
16QAM	1	0	Highest	13.77	1.29	6.70	19.18	Horizontal	Pass
TOQAW	1	0	Lowest	15.07	1.27	6.70	20.50	Vertical	Pass
	1	0	Middle	15	1.28	6.70	20.42	Vertical	Pass
	1	0	Highest	15.21	1.29	6.70	<mark>20.62</mark>	Vertical	Pass
Limit	ERP<	7W=38.4	5dBm						

			Rad	iated Power	(EIRP) for I	TE Band 5	/ 10M		
		RB				Result			
Modulation	Г	₹D	Channel	S G.Level	Cable	Gain	PMeas	Polarization	Conclusion
Modulation	Size	Offset	Chamilei	(dBm)	loss	(dBi)	E.R.P(dBm)	Of Max.	Conclusion
	Size	Oliset		(ubiii)	1055	(ubi)	E.R.P(ubili)	EIRP	
	1	0	Lowest	13.92	1.27	6.70	19.35	Horizontal	Pass
	1	0	Middle	13.93	1.28	6.70	19.35	Horizontal	Pass
QPSK	1	0	Highest	13.85	1.29	6.70	19.26	Horizontal	Pass
QFSK	1	0	Lowest	15.26	1.27	6.70	20.69	Vertical	Pass
	1	0	Middle	15.36	1.28	6.70	<mark>20.78</mark>	Vertical	Pass
	1	0	Highest	15.29	1.29	6.70	20.70	Vertical	Pass
	1	0	Lowest	13.67	1.27	6.70	19.10	Horizontal	Pass
	1	0	Middle	13.6	1.28	6.70	19.02	Horizontal	Pass
16QAM	1	0	Highest	13.66	1.29	6.70	19.07	Horizontal	Pass
IOQAW	1	0	Lowest	15.09	1.27	6.70	20.52	Vertical	Pass
	1	0	Middle	14.97	1.28	6.70	20.39	Vertical	Pass
	1	0	Highest	15.08	1.29	6.70	20.49	Vertical	Pass
Limit	ERP<	7W=38.4	5dBm						



			Rac	diated Power	(EIRP) for	LTE Band 7	7 / 5M		
		RB				Result	t		
Modulation	Г	₹D	Channel	S G.Level	Cable	Gain	PMeas	Polarization	Conclusion
Wodulation	Size	Offset	Charmer	(dBm)	loss	(dBi)	E.I.R.P(dBm)	Of Max.	Conclusion
	Size	Oliset		(GDIII)	1033	(ubi)	E.I.K.P(ubili)	EIRP	
	1	0	Lowest	9.99	2.56	10.60	18.03	Horizontal	Pass
	1	0	Middle	10.18	2.67	10.65	18.16	Horizontal	Pass
QPSK	1	0	Highest	10.13	2.72	10.70	18.11	Horizontal	Pass
QFSK	1	0	Lowest	11.47	2.56	10.60	19.51	Vertical	Pass
	1	0	Middle	11.54	2.67	10.65	19.52	Vertical	Pass
	1	0	Highest	11.63	2.72	10.70	<mark>19.61</mark>	Vertical	Pass
	1	0	Lowest	9.29	2.56	10.60	17.33	Horizontal	Pass
	1	0	Middle	9.02	2.67	10.65	17.00	Horizontal	Pass
16QAM	1	0	Highest	9.46	2.72	10.70	17.44	Horizontal	Pass
TOQAIVI	1	0	Lowest	10.67	2.56	10.60	18.71	Vertical	Pass
	1	0	Middle	10.5	2.67	10.65	18.48	Vertical	Pass
	1	0	Highest	10.91	2.72	10.70	<mark>18.89</mark>	Vertical	Pass
Limit	EIRP	<2W=33d	Bm						_

Radiated Power (EIRP) for LTE Band 7 / 10M											
			Rad	iated Power	(EIRP) for I	TE Band 7	7/10M				
		RB				Resul	t				
Madulatian		XD.	Channal	0.01	0-61-	O-i-	DM	Polarization	Conclusion		
Modulation			Channel	S G.Level	Cable	Gain	PMeas	Of Max.			
	Size	Offset		(dBm)	loss	(dBi)	E.I.R.P(dBm)	EIRP			
	1	0	Lowest	10.09	2.56	10.60	18.13	Horizontal	Pass		
	1	0	Middle	10.17	2.67	10.65	18.15	Horizontal	Pass		
QPSK	1	0	Highest	10.39	2.72	10.70	18.37	Horizontal	Pass		
QP5K	1	0	Lowest	11.57	2.56	10.60	19.61	Vertical	Pass		
	1	0	Middle	11.63	2.67	10.65	19.61	Vertical	Pass		
	1	0	Highest	11.73	2.72	10.70	19.71	Vertical	Pass		
	1	0	Lowest	9.27	2.56	10.60	17.31	Horizontal	Pass		
	1	0	Middle	9.27	2.67	10.65	17.25	Horizontal	Pass		
16QAM	1	0	Highest	9.49	2.72	10.70	17.47	Horizontal	Pass		
IOQAM	1	0	Lowest	10.73	2.56	10.60	18.77	Vertical	Pass		
	1	0	Middle	10.63	2.67	10.65	18.61	Vertical	Pass		
	1	0	Highest	10.83	2.72	10.70	18.81	Vertical	Pass		
Limit	EIRP<	<2W=33d	Bm				-	_			



			Rad	iated Power	(EIRP) for I	_TE Band 7	/ 15M		
	-	RB				Result	t		
Modulation	r	XD.	Channel	S G.Level	Cable	Gain	PMeas	Polarization	Conclusion
iviodulation	Size	Offset	Channel	(dBm)	loss	(dBi)	E.I.R.P(dBm)	Of Max.	Conclusion
	Size	Oliset		(ubiii)	1055	(ubi)	E.I.K.P(ubili)	EIRP	
	1	0	Lowest	10.44	2.56	10.60	18.48	Horizontal	Pass
	1	0	Middle	10.32	2.67	10.65	18.30	Horizontal	Pass
QPSK	1	0	Highest	10.46	2.72	10.70	18.44	Horizontal	Pass
QI SIX	1	0	Lowest	11.87	2.56	10.60	19.91	Vertical	Pass
	1	0	Middle	11.79	2.67	10.65	19.77	Vertical	Pass
	1	0	Highest	11.94	2.72	10.70	<mark>19.92</mark>	Vertical	Pass
	1	0	Lowest	10.14	2.56	10.60	18.18	Horizontal	Pass
	1	0	Middle	10.15	2.67	10.65	18.13	Horizontal	Pass
16QAM	1	0	Highest	10.14	2.72	10.70	18.12	Horizontal	Pass
IOQAIVI	1	0	Lowest	11.45	2.56	10.60	19.49	Vertical	Pass
	1	0	Middle	11.54	2.67	10.65	19.52	Vertical	Pass
	1	0	Highest	11.64	2.72	10.70	<mark>19.62</mark>	Vertical	Pass
Limit	EIRP<	<2W=33d	Bm						

			Rad	iated Power	(EIRP) for I	LTE Band 7	7 / 20M		
		20				Resul	t		
Madulatian	ŀ	₹B	Channal	0.011	Oakla	Onin	DM	Polarization	Canalysian
Modulation	0:	0" 1	Channel	S G.Level (dBm)	Cable	Gain	PMeas E.I.R.P(dBm)	Of Max.	Conclusion
	Size	Offset				(dBi)		EIRP	
	1	0	Lowest	10.31	2.56	10.60	18.35	Horizontal	Pass
	1	0	Middle	10.47	2.67	10.65	18.45	Horizontal	Pass
QPSK	1	0	Highest	10.42	2.72	10.70	18.40	Horizontal	Pass
QFSK	1	0	Lowest	11.8	2.56	10.60	<mark>19.84</mark>	Vertical	Pass
	1	0	Middle	11.84	2.67	10.65	19.82	Vertical	Pass
	1	0	Highest	11.82	2.72	10.70	19.80	Vertical	Pass
	1	0	Lowest	10.1	2.56	10.60	18.14	Horizontal	Pass
	1	0	Middle	10.32	2.67	10.65	18.30	Horizontal	Pass
16QAM	1	0	Highest	10.31	2.72	10.70	18.29	Horizontal	Pass
TOQAM	1	0	Lowest	11.52	2.56	10.60	19.56	Vertical	Pass
	1	0	Middle	11.62	2.67	10.65	19.60	Vertical	Pass
	1	0	Highest	11.71	2.72	10.70	<mark>19.69</mark>	Vertical	Pass
Limit	EIRP<	<2W=33d	Bm						



			Radia	ated Power (E	EIRP) for LT	E Band 12 /	′ 1.4M		
	-	. D				Result			
Madulatian	r	RB	Chamal	0.011	0-1-1-	O-i-	DM	Polarization	Canalysian
Modulation	0:	04	Channel	S G.Level	Cable	Gain	PMeas	Of Max.	Conclusion
	Size	Offset		(dBm)	loss	(dBi)	E.R.P(dBm)	ERP	
	1	0	Lowest	13.77	1.21	6.40	18.96	Horizontal	Pass
	1	0	Middle	13.86	1.22	6.40	19.04	Horizontal	Pass
QPSK	1	0	Highest	13.82	1.23	6.40	18.99	Horizontal	Pass
QPSK	1	0	Lowest	15.15	1.21	6.40	20.34	Vertical	Pass
	1	0	Middle	15.2	1.22	6.40	20.38	Vertical	Pass
	1	0	Highest	15.17	1.23	6.40	20.34	Vertical	Pass
	1	0	Lowest	12.68	1.21	6.40	17.87	Horizontal	Pass
	1	0	Middle	12.91	1.22	6.40	18.09	Horizontal	Pass
16QAM	1	0	Highest	13.09	1.23	6.40	18.26	Horizontal	Pass
IOQAW	1	0	Lowest	14.11	1.21	6.40	19.30	Vertical	Pass
	1	0	Middle	14.4	1.22	6.40	19.58	Vertical	Pass
	1	0	Highest	14.42	1.23	6.40	19.59	Vertical	Pass
Limit	EIRP<	:2W=33d	Bm						

	Radiated Power (EIRP) for LTE Band 12 / 3M												
	•		Radi	iated Power	(EIRP) for	LTE Band	12 / 3M		T				
		RB				Resu	ult						
Modulation	Г	\D	Channel	S	Cable	Gain	PMeas	Polarization	Conclusion				
Modulation	0:	04	Chamilei	G.Level		(dBi)		Of Max.	Conclusion				
	Size	Offset		(dBm)	loss	(451)	E.R.P(dBm)	ERP					
	1	0	Lowest	13.9	1.21	6.40	19.09	Horizontal	Pass				
	1	0	Middle	13.92	1.22	6.40	19.10	Horizontal	Pass				
QPSK	1	0	Highest	13.95	1.23	6.40	19.12	Horizontal	Pass				
QFSK	1	0	Lowest	15.31	1.21	6.40	20.50	Vertical	Pass				
	1	0	Middle	15.32	1.22	6.40	20.50	Vertical	Pass				
	1	0	Highest	15.37	1.23	6.40	20.54	Vertical	Pass				
	1	0	Lowest	13.1	1.21	6.40	18.29	Horizontal	Pass				
	1	0	Middle	13.29	1.22	6.40	18.47	Horizontal	Pass				
16QAM	1	0	Highest	12.96	1.23	6.40	18.13	Horizontal	Pass				
TOQAM	1	0	Lowest	14.53	1.21	6.40	19.72	Vertical	Pass				
	1	0	Middle	14.64	1.22	6.40	<mark>19.82</mark>	Vertical	Pass				
	1	0	Highest	14.38	1.23	6.40	19.55	Vertical	Pass				
Limit	EIRP<	<2W=33d	Bm	·	·	·							



			Rad	iated Power	(EIRP) for L	TE Band 12	/ 5M		
	_	₹B				Result			
Modulation	r	(D	Channel	S G.Level	Cable	Gain	PMeas	Polarization	Conclusion
IVIOGUIATION	Size	Offset	Chamilei		loss		E.R.P(dBm)	Of Max.	Conclusion
	Size	Oliset		(dBm)	1055	(dBi)	E.K.P(dbiii)	ERP	
	1	0	Lowest	14.05	1.21	6.40	19.24	Horizontal	Pass
	1	0	Middle	14.09	1.22	6.40	19.27	Horizontal	Pass
QPSK	1	0	Highest	13.95	1.23	6.40	19.12	Horizontal	Pass
QFSK	1	0	Lowest	15.47	1.21	6.40	20.66	Vertical	Pass
	1	0	Middle	15.51	1.22	6.40	<mark>20.69</mark>	Vertical	Pass
	1	0	Highest	15.42	1.23	6.40	20.59	Vertical	Pass
	1	0	Lowest	13.84	1.21	6.40	19.03	Horizontal	Pass
	1	0	Middle	13.9	1.22	6.40	19.08	Horizontal	Pass
16QAM	1	0	Highest	13.76	1.23	6.40	18.93	Horizontal	Pass
TOQAM	1	0	Lowest	15.2	1.21	6.40	20.39	Vertical	Pass
	1	0	Middle	15.3	1.22	6.40	<mark>20.48</mark>	Vertical	Pass
	1	0	Highest	15.22	1.23	6.40	20.39	Vertical	Pass
Limit	ERP<	3W=34.7	7dBm						

			Radi	ated Power (EIRP) for L	ΓE Band 12	/ 10M		
	-	RB				Result	7		
Modulation	r	XD.	Channel	S G.Level	Cable	Gain	PMeas	Polarization	Conclusion
Modulation	Size	Offset	Charmer	(dBm)	loss		E.R.P(dBm)	Of Max.	Conclusion
	Size	Oliset		(ubiii)	1055	(dBi)	E.K.F (dbiii)	ERP	
	1	0	Lowest	14.01	1.21	6.40	19.20	Horizontal	Pass
	1	0	Middle	14.21	1.22	6.40	19.39	Horizontal	Pass
QPSK	1	0	Highest	14.02	1.23	6.40	19.19	Horizontal	Pass
QFSK	1	0	Lowest	15.47	1.21	6.40	20.66	Vertical	Pass
	1	0	Middle	15.51	1.22	6.40	20.69	Vertical	Pass
	1	0	Highest	15.51	1.23	6.40	20.68	Vertical	Pass
	1	0	Lowest	13.92	1.21	6.40	19.11	Horizontal	Pass
	1	0	Middle	13.94	1.22	6.40	19.12	Horizontal	Pass
16QAM	1	0	Highest	13.93	1.23	6.40	19.10	Horizontal	Pass
TOQAM	1	0	Lowest	15.28	1.21	6.40	20.47	Vertical	Pass
	1	0	Middle	15.26	1.22	6.40	20.44	Vertical	Pass
	1	0	Highest	15.33	1.23	6.40	20.50	Vertical	Pass
Limit	ERP<	3W=34.7	7dBm						



			Radi	iated Power	(EIRP) for L	TE Band 13	/ 5M		
	_	RB				Result			
Modulation		(D	Channel	S G.Level	Cable	Gain	PMeas	Polarization	Conclusion
iviodulation	Size	Offset	Charinei	(dBm)	loss		E.R.P(dBm)	Of Max.	Conclusion
	Size	Oliset		(ubiii)	1055	(dBi)	E.K.P(ubili)	ERP	
	1	0	Lowest	13.94	1.21	6.40	19.13	Horizontal	Pass
	1	0	Middle	15.87	1.22	6.40	21.05	Horizontal	Pass
QPSK	1	0	Highest	14.05	1.23	6.40	19.22	Horizontal	Pass
QFSK	1	0	Lowest	15.94	1.21	6.40	21.13	Vertical	Pass
	1	0	Middle	14.3	1.22	6.40	19.48	Vertical	Pass
	1	0	Highest	16.04	1.23	6.40	<mark>21.21</mark>	Vertical	Pass
	1	0	Lowest	14	1.21	6.40	19.19	Horizontal	Pass
	1	0	Middle	15.82	1.22	6.40	21.00	Horizontal	Pass
16QAM	1	0	Highest	13.99	1.23	6.40	19.16	Horizontal	Pass
TOQAM	1	0	Lowest	15.67	1.21	6.40	20.86	Vertical	Pass
	1	0	Middle	14.1	1.22	6.40	19.28	Vertical	Pass
	1	0	Highest	15.9	1.23	6.40	<mark>21.07</mark>	Vertical	Pass
Limit	ERP<	3W=34.7	7dBm						

			Radi	ated Power (EIRP) for L1	E Band 13	/ 10M			
		90			Result					
Modulation	RB Modulation		Channel	S G.Level	Cable	Gain	PMeas	Polarization	Conclusion	
Modulation	Ċ					Of Max.	Conclusion			
	Size	Offset		(dBm)	loss	(dBi)	E.R.P(dBm)	ERP		
QPSK	1	0	Middle	16.05	1.22	6.40	<mark>21.23</mark>	Horizontal	Pass	
QF3K	1	0	Middle	14.18	1.22	6.40	19.36	Vertical	Pass	
16QAM	1	0	Middle	15.8	1.22	6.40	20.98	Horizontal	Pass	
TOQXIVI	1	0	Middle	13.82	1.22	6.40	19.00	Vertical	Pass	
Limit	ERP<	3W=34.7	7dBm	·	·	·	·	·	·	



			Rad	iated Power	(EIRP) for L	TE Band 17	/ 5M		
	_	RB				Result			
Modulation	r	(D	Channel	S G.Level	Cable	Gain	PMeas	Polarization	Conclusion
Wodulation	Size	Offset	Channel	(dBm)	loss	(dBi)	E.R.P(dBm)	Of Max.	Conclusion
	Size	Oliset		(dBIII)	1055	(ubi)	E.K.F(dbiii)	ERP	
	1	0	Lowest	10.9	2.56	10.60	18.94	Horizontal	Pass
	1	0	Middle	10.83	2.67	10.65	18.81	Horizontal	Pass
QPSK	1	0	Highest	10.91	2.72	10.70	18.89	Horizontal	Pass
QFSK	1	0	Lowest	12.22	2.56	10.60	20.26	Vertical	Pass
	1	0	Middle	12.23	2.67	10.65	20.21	Vertical	Pass
	1	0	Highest	12.35	2.72	10.70	20.33	Vertical	Pass
	1	0	Lowest	10.31	2.56	10.60	18.35	Horizontal	Pass
	1	0	Middle	10.14	2.67	10.65	18.12	Horizontal	Pass
16QAM	1	0	Highest	10.37	2.72	10.70	18.35	Horizontal	Pass
TOQAM	1	0	Lowest	11.61	2.56	10.60	19.65	Vertical	Pass
	1	0	Middle	11.63	2.67	10.65	19.61	Vertical	Pass
	1	0	Highest	11.67	2.72	10.70	<mark>19.65</mark>	Vertical	Pass
Limit	EIRP<	:2W=33d	Bm						

			Radi	ated Power (EIRP) for L1	E Band 17	/ 10M		
		20				Result			
Modulation		RB	Channel	S G.Level	Cable	Gain	PMeas	Polarization	Conducion
Modulation	Size	Offset	Channel	(dBm)	loss	(dBi)	E.R.P(dBm)	Of Max.	Conclusion
	Size	Oliset			1055	(ubi)	E.K.P(ubili)	ERP	
	1	0	Lowest	10.98	2.56	10.60	19.02	Horizontal	Pass
	1	0	Middle	11.01	2.67	10.65	18.99	Horizontal	Pass
QPSK	1	0	Highest	11.07	2.72	10.70	19.05	Horizontal	Pass
QFSK	1	0	Lowest	12.28	2.56	10.60	20.32	Vertical	Pass
	1	0	Middle	12.41	2.67	10.65	20.39	Vertical	Pass
	1	0	Highest	12.42	2.72	10.70	20.40	Vertical	Pass
	1	0	Lowest	10.6	2.56	10.60	18.64	Horizontal	Pass
	1	0	Middle	10.57	2.67	10.65	18.55	Horizontal	Pass
16QAM	1	0	Highest	10.85	2.72	10.70	18.83	Horizontal	Pass
IOQAM	1	0	Lowest	12.01	2.56	10.60	20.05	Vertical	Pass
	1	0	Middle	12.04	2.67	10.65	20.02	Vertical	Pass
	1	0	Highest	12.17	2.72	10.70	<mark>20.15</mark>	Vertical	Pass
Limit	EIRP<	<2W=33d	Bm						



			Radia	ated Power (I	EIRP) for LT	E Band 25 /	1.4M		
	_					Result			
Modulation	F	₹B	Channel	S G.Level	Cable	Gain	PMeas	Polarization	Conclusion
Wodulation	C:	04224	Charmer	(dBm)	loss	(dBi)	E.R.P(dBm)	Of Max.	Conclusion
	Size	Offset		(dBiii)	1033	(dDI)	Litti (dbiii)	ERP	
	1	0	Lowest	10.61	2.37	10.40	18.64	Horizontal	Pass
	1	0	Middle	10.37	2.39	10.42	18.40	Horizontal	Pass
QPSK	1	0	Highest	10.29	2.40	10.44	18.33	Horizontal	Pass
QFSK	1	0	Lowest	11.94	2.37	10.40	<mark>19.97</mark>	Vertical	Pass
	1	0	Middle	11.76	2.39	10.42	19.79	Vertical	Pass
	1	0	Highest	11.74	2.40	10.44	19.78	Vertical	Pass
	1	0	Lowest	9.32	2.37	10.40	17.35	Horizontal	Pass
	1	0	Middle	9.66	2.39	10.42	17.69	Horizontal	Pass
16QAM	1	0	Highest	9.59	2.40	10.44	17.63	Horizontal	Pass
IOQAW	1	0	Lowest	10.73	2.37	10.40	18.76	Vertical	Pass
	1	0	Middle	11.16	2.39	10.42	<mark>19.19</mark>	Vertical	Pass
	1	0	Highest	10.99	2.40	10.44	19.03	Vertical	Pass
Limit	EIRP<	:2W=33d	Bm						

			Rad	iated Power	(EIRP) for	LTE Band	25 / 3M		
	.	RB				Resu	ult		
Madulatian		VD.	Channal	S	Oakla	O-i-	DM	Polarization	Canalysian
Modulation		6 "	Channel	G.Level	Cable .	Gain	PMeas	Of Max.	Conclusion
	Size	Offset		(dBm)	loss	(dBi)	E.R.P(dBm)	ERP	
	1	0	Lowest	10.55	2.37	10.40	18.58	Horizontal	Pass
	1	0	Middle	10.53	2.39	10.42	18.56	Horizontal	Pass
ODCK	1	0	Highest	10.41	2.40	10.44	18.45	Horizontal	Pass
QPSK	1	0	Lowest	11.92	2.37	10.40	19.95	Vertical	Pass
	1	0	Middle	11.83	2.39	10.42	19.86	Vertical	Pass
	1	0	Highest	11.86	2.40	10.44	19.90	Vertical	Pass
	1	0	Lowest	9.6	2.37	10.40	17.63	Horizontal	Pass
	1	0	Middle	9.53	2.39	10.42	17.56	Horizontal	Pass
16QAM	1	0	Highest	9.52	2.40	10.44	17.56	Horizontal	Pass
IOQAM	1	0	Lowest	10.95	2.37	10.40	18.98	Vertical	Pass
	1	0	Middle	11.03	2.39	10.42	19.06	Vertical	Pass
	1	0	Highest	10.85	2.40	10.44	18.89	Vertical	Pass
Limit	EIRP<	<2W=33d	Bm				_	_	_



			Rad	iated Power	(EIRP) for L	TE Band 25	/ 5M		
	_	RB				Result			
Modulation	r	(D	Channel	S G.Level	Cable	Gain	PMeas	Polarization	Conclusion
IVIOGUIATION	Size	Offset	Charinei		loss			Of Max.	Conclusion
	Size	Oliset		(dBm)	1055	(dBi)	E.R.P(dBm)	ERP	
	1	0	Lowest	10.36	2.37	10.40	18.39	Horizontal	Pass
	1	0	Middle	10.3	2.39	10.42	18.33	Horizontal	Pass
QPSK	1	0	Highest	10.39	2.40	10.44	18.43	Horizontal	Pass
QFSK	1	0	Lowest	11.67	2.37	10.40	19.70	Vertical	Pass
	1	0	Middle	11.66	2.39	10.42	19.69	Vertical	Pass
	1	0	Highest	11.69	2.40	10.44	<mark>19.73</mark>	Vertical	Pass
	1	0	Lowest	9.48	2.37	10.40	17.51	Horizontal	Pass
	1	0	Middle	9.44	2.39	10.42	17.47	Horizontal	Pass
16QAM	1	0	Highest	9.59	2.40	10.44	17.63	Horizontal	Pass
TOQAM	1	0	Lowest	10.78	2.37	10.40	18.81	Vertical	Pass
	1	0	Middle	10.75	2.39	10.42	18.78	Vertical	Pass
	1	0	Highest	11.07	2.40	10.44	<mark>19.11</mark>	Vertical	Pass
Limit	EIRP<	:2W=33d	Bm						

			Radi	ated Power (EIRP) for L	ΓE Band 25	10M		
	-	RB			7-7	Result	7		
Modulation	r	(D	Channel	S G.Level	Cable	Gain	PMeas	Polarization	Conclusion
iviodulation	Size	Offset	Charmer	(dBm)	loss	(dBi)	E.R.P(dBm)	Of Max.	Conclusion
	Size	Oliset		(ubiii)	1055	(ubi)	E.K.F (dbiii)	ERP	
	1	0	Lowest	10.49	2.37	10.40	18.52	Horizontal	Pass
	1	0	Middle	10.37	2.39	10.42	18.40	Horizontal	Pass
QPSK	1	0	Highest	10.3	2.40	10.44	18.34	Horizontal	Pass
Qrok	1	0	Lowest	11.93	2.37	10.40	<mark>19.96</mark>	Vertical	Pass
	1	0	Middle	11.81	2.39	10.42	19.84	Vertical	Pass
	1	0	Highest	11.73	2.40	10.44	19.77	Vertical	Pass
	1	0	Lowest	9.59	2.37	10.40	17.62	Horizontal	Pass
	1	0	Middle	9.71	2.39	10.42	17.74	Horizontal	Pass
16QAM	1	0	Highest	9.54	2.40	10.44	17.58	Horizontal	Pass
IOQAW	1	0	Lowest	11.08	2.37	10.40	<mark>19.11</mark>	Vertical	Pass
	1	0	Middle	11.04	2.39	10.42	19.07	Vertical	Pass
	1	0	Highest	10.98	2.40	10.44	19.02	Vertical	Pass
Limit	EIRP<	:2W=33d	Bm						



			Radi	ated Power (EIRP) for LT	E Band 25	/ 15M		
	_	RB				Result			
Modulation	r	ΚΒ	Channel	S G.Level	Cable	Gain	PMeas	Polarization	Conclusion
IVIOGUIATION	Size	Offset	Channel	(dBm)	loss	(dBi)	E.R.P(dBm)	Of Max.	Conclusion
	Size	Oliset		(ubiii)	1055	(ubi)	E.R.P(ubili)	ERP	
	1	0	Lowest	10.7	2.37	10.40	18.73	Horizontal	Pass
	1	0	Middle	10.49	2.39	10.42	18.52	Horizontal	Pass
QPSK	1	0	Highest	10.54	2.40	10.44	18.58	Horizontal	Pass
QFSK	1	0	Lowest	12.18	2.37	10.40	<mark>20.21</mark>	Vertical	Pass
	1	0	Middle	11.98	2.39	10.42	20.01	Vertical	Pass
	1	0	Highest	11.96	2.40	10.44	20.00	Vertical	Pass
	1	0	Lowest	10.46	2.37	10.40	18.49	Horizontal	Pass
	1	0	Middle	10.26	2.39	10.42	18.29	Horizontal	Pass
16QAM	1	0	Highest	10.36	2.40	10.44	18.40	Horizontal	Pass
TOQAM	1	0	Lowest	11.9	2.37	10.40	<mark>19.93</mark>	Vertical	Pass
	1	0	Middle	11.73	2.39	10.42	19.76	Vertical	Pass
	1	0	Highest	11.67	2.40	10.44	19.71	Vertical	Pass
Limit	EIRP<	:2W=33d	Bm						

			Radi	ated Power (EIRP) for L	ΓE Band 25	/ 20M		
	-	RB			7	Result	7		
Madulation	· ·	Λ D	Channal	C.C.L.aval	Cabla	Cain	DMass	Polarization	Conducion
Modulation	0:	0"	Channel	S G.Level	Cable loss	Gain	PMeas E.R.P(dBm)	Of Max.	Conclusion
	Size	Offset		(dBm)		(dBi)		ERP	
	1	0	Lowest	10.65	2.37	10.40	18.68	Horizontal	Pass
	1	0	Middle	10.72	2.39	10.42	18.75	Horizontal	Pass
QPSK	1	0	Highest	10.48	2.40	10.44	18.52	Horizontal	Pass
QPSK	1	0	Lowest	12.07	2.37	10.40	20.10	Vertical	Pass
	1	0	Middle	12.12	2.39	10.42	20.15	Vertical	Pass
	1	0	Highest	11.96	2.40	10.44	20.00	Vertical	Pass
	1	0	Lowest	10.65	2.37	10.40	18.68	Horizontal	Pass
	1	0	Middle	10.31	2.39	10.42	18.34	Horizontal	Pass
16QAM	1	0	Highest	10.44	2.40	10.44	18.48	Horizontal	Pass
IOQAIVI	1	0	Lowest	11.97	2.37	10.40	20.00	Vertical	Pass
	1	0	Middle	11.77	2.39	10.42	19.80	Vertical	Pass
	1	0	Highest	11.78	2.40	10.44	19.82	Vertical	Pass
Limit	EIRP<	<2W=33d	Bm						



			Radia	ated Power (I	EIRP) for LT	E Band 26 /	1.4M		
	_					Result			
Modulation	RB		Channel	S G.Level	Cable	Gain	PMeas	Polarization	Conclusion
Modulation	0:	Offset	Channel	(dBm)	loss	(dBi)	E.R.P(dBm)	Of Max.	Conclusion
	Size	Ze Oliset		, ,	1033	(ubi)	L.R.I (dbill)	ERP	
	1	0	Lowest	11.12	2.35	10.13	18.90	Horizontal	Pass
	1	0	Middle	11.06	2.36	10.16	18.86	Horizontal	Pass
QPSK	1	0	Highest	10.98	2.37	10.22	18.83	Horizontal	Pass
QFSK	1	0	Lowest	12.57	2.35	10.13	<mark>20.35</mark>	Vertical	Pass
	1	0	Middle	12.42	2.36	10.16	20.22	Vertical	Pass
	1	0	Highest	12.41	2.37	10.22	20.26	Vertical	Pass
	1	0	Lowest	10.12	2.35	10.13	17.90	Horizontal	Pass
	1	0	Middle	10.3	2.36	10.16	18.10	Horizontal	Pass
16QAM	1	0	Highest	10.28	2.37	10.22	18.13	Horizontal	Pass
TOQAM	1	0	Lowest	11.53	2.35	10.13	19.31	Vertical	Pass
	1	0	Middle	11.75	2.36	10.16	19.55	Vertical	Pass
	1	0	Highest	11.76	2.37	10.22	<mark>19.61</mark>	Vertical	Pass
Limit	EIRP<	<1W=30d	Bm						

			Pad	iated Power	(EIDD) for	I TE Dand	26 / 2M		
			Rau	lated Fower	(EIRP) IOI	Resu			
Modulation	-	RB	Channel	S	S G.Level (dBm)	Gain	PMeas	Polarization	Conclusion
	Size	Offset				(dBi)	E.R.P(dBm)	Of Max. ERP	
	1	0	Lowest	11.24	2.35	10.13	19.02	Horizontal	Pass
QPSK	1	0	Middle	11	2.36	10.16	18.80	Horizontal	Pass
	1	0	Highest	10.99	2.37	10.22	18.84	Horizontal	Pass
	1	0	Lowest	12.61	2.35	10.13	20.39	Vertical	Pass
	1	0	Middle	12.47	2.36	10.16	20.27	Vertical	Pass
	1	0	Highest	12.33	2.37	10.22	20.18	Vertical	Pass
	1	0	Lowest	10.48	2.35	10.13	18.26	Horizontal	Pass
	1	0	Middle	10.35	2.36	10.16	18.15	Horizontal	Pass
4000	1	0	Highest	10.35	2.37	10.22	18.20	Horizontal	Pass
16QAM	1	0	Lowest	11.95	2.35	10.13	19.73	Vertical	Pass
	1	0	Middle	11.84	2.36	10.16	19.64	Vertical	Pass
	1	0	Highest	11.69	2.37	10.22	19.54	Vertical	Pass
Limit	EIRP	<1W=30d	Bm						



			Rad	iated Power	(EIRP) for L	TE Band 26	/ 5M		
	_	RB				Result			
Modulation	ľ	KB	Channel	S G.Level	Cable	Gain	PMeas	Polarization	Conducion
iviodulation	Size	Offset		(dBm)	loss	(dBi)	E.R.P(dBm)	Of Max.	Conclusion
	5126	Oilset			1055	(ubi)	E.K.F(dbiii)	ERP	
	1	0	Lowest	11.25	2.35	10.13	19.03	Horizontal	Pass
	1	0	Middle	11.19	2.36	10.16	18.99	Horizontal	Pass
QPSK	1	0	Highest	10.88	2.37	10.22	18.73	Horizontal	Pass
QFSK	1	0	Lowest	12.64	2.35	10.13	20.42	Vertical	Pass
	1	0	Middle	12.51	2.36	10.16	20.31	Vertical	Pass
	1	0	Highest	12.24	2.37	10.22	20.09	Vertical	Pass
	1	0	Lowest	10.3	2.35	10.13	18.08	Horizontal	Pass
	1	0	Middle	10.1	2.36	10.16	17.90	Horizontal	Pass
16QAM	1	0	Highest	10.26	2.37	10.22	18.11	Horizontal	Pass
TOQAM	1	0	Lowest	11.77	2.35	10.13	<mark>19.55</mark>	Vertical	Pass
	1	0	Middle	11.55	2.36	10.16	19.35	Vertical	Pass
	1	0	Highest	11.7	2.37	10.22	19.55	Vertical	Pass
Limit	EIRP<	EIRP<1W=30dBm							

			Radi	ated Power (EIRP) for L1	E Band 26	/ 10M			
		20				Result				
Modulation	RB		Channel	0.01.000	Cable	Cain	PMeas	Polarization	0	
Modulation	Size	Offset	Charmer	S G.Level	(dBm) loss (dBi)	Gain		Of Max.	Conclusion	
	Size Offset	Oliset		(ubiii)	1055	(dbi) E.R.P(dbiii)	ERP			
	1	0	Lowest	11.14	2.35	10.13	18.92	Horizontal	Pass	
	1	0	Middle	11.13	2.36	10.16	18.93	Horizontal	Pass	
QPSK	1	0	Highest	10.95	2.37	10.22	18.80	Horizontal	Pass	
QFSK	1	0	Lowest	12.6	2.35	10.13	20.38	Vertical	Pass	
	1	0	Middle	12.6	2.36	10.16	<mark>20.40</mark>	Vertical	Pass	
	1	0	Highest	12.37	2.37	10.22	20.22	Vertical	Pass	
	1	0	Lowest	10.41	2.35	10.13	18.19	Horizontal	Pass	
	1	0	Middle	10.22	2.36	10.16	18.02	Horizontal	Pass	
16QAM	1	0	Highest	10.48	2.37	10.22	18.33	Horizontal	Pass	
TOQAM	1	0	Lowest	11.75	2.35	10.13	19.53	Vertical	Pass	
	1	0	Middle	11.71	2.36	10.16	19.51	Vertical	Pass	
	1	0	Highest	11.79	2.37	10.22	<mark>19.64</mark>	Vertical	Pass	
Limit	EIRP<	EIRP<1W=30dBm								



			Radi	ated Power (EIRP) for L1	TE Band 26	′ 15M		
	RB					Result			
Modulation			Channal	S G.Level	Cable	Gain	PMeas	Polarization	Conclusion
Modulation	Size	Offset	Channel	(dBm) loss		(dBi)	E.R.P(dBm)	Of Max.	Conclusion
	Size	Oliset			1055	(ubi)	E.K.F(dbiii)	ERP	
	1	0	Lowest	11.38	2.35	10.13	19.16	Horizontal	Pass
	1	0	Middle	11.27	2.36	10.16	19.07	Horizontal	Pass
QPSK	1	0	Highest	11.19	2.37	10.22	19.04	Horizontal	Pass
QFSK	1	0	Lowest	12.87	2.35	10.13	<mark>20.65</mark>	Vertical	Pass
	1	0	Middle	12.7	2.36	10.16	20.50	Vertical	Pass
	1	0	Highest	12.53	2.37	10.22	20.38	Vertical	Pass
	1	0	Lowest	11.24	2.35	10.13	19.02	Horizontal	Pass
	1	0	Middle	11.07	2.36	10.16	18.87	Horizontal	Pass
16QAM	1	0	Highest	10.88	2.37	10.22	18.73	Horizontal	Pass
TOQAM	1	0	Lowest	12.59	2.35	10.13	<mark>20.37</mark>	Vertical	Pass
	1	0	Middle	12.48	2.36	10.16	20.28	Vertical	Pass
	1	0	Highest	12.32	2.37	10.22	20.17	Vertical	Pass
Limit	EIRP<	:1W=30d	Bm						



			Rad	iated Power	(EIRP) for I	_TE Band 4	1 / 5M		
		RB				Result	t		
Modulation	KD		Channel	S G.Level	Cable	Gain	PMeas	Polarization	Conclusion
Wodulation	Size	Offset	Charmer	(dBm)	loss	(dBi)	E.I.R.P(dBm)	Of Max.	Conclusion
	Size	ie Oliset			1055	(ubi)	E.I.K.P(ubili)	EIRP	
	1	0	Lowest	9.36	2.56	10.60	17.40	Horizontal	Pass
	1	0	Middle	9.54	2.67	10.65	17.52	Horizontal	Pass
QPSK	1	0	Highest	9.91	2.72	10.70	17.89	Horizontal	Pass
QFSK	1	0	Lowest	10.84	2.56	10.60	18.88	Vertical	Pass
	1	0	Middle	11.03	2.67	10.65	19.01	Vertical	Pass
	1	0	Highest	11.28	2.72	10.70	<mark>19.26</mark>	Vertical	Pass
	1	0	Lowest	9.26	2.56	10.60	17.30	Horizontal	Pass
	1	0	Middle	9.12	2.67	10.65	17.10	Horizontal	Pass
16QAM	1	0	Highest	9.49	2.72	10.70	17.47	Horizontal	Pass
IOQAW	1	0	Lowest	10.58	2.56	10.60	18.62	Vertical	Pass
	1	0	Middle	10.59	2.67	10.65	18.57	Vertical	Pass
	1	0	Highest	10.92	2.72	10.70	<mark>18.90</mark>	Vertical	Pass
Limit	EIRP<2W=33dBm								

			Radi	ated Power ((EIRP) for L	TE Band 41	I / 10M			
	RB									
N A 11.0				C.C.L. cooks Cooks DMaga		514	Polarization			
Modulation	Size Offse	Officet	Channel t	S G.Level	Cable	Gain	PMeas	Of Max.	Conclusion	
		Offset		(dBm)	loss	s (dBi) E.I.R.P(dBm)	EIRP			
	1	0	Lowest	8.67	2.56	10.60	16.71	Horizontal	Pass	
QPSK	1	0	Middle	8.71	2.67	10.65	16.69	Horizontal	Pass	
	1	0	Highest	8.86	2.72	10.70	16.84	Horizontal	Pass	
QPSK	1	0	Lowest	10	2.56	10.60	18.04	Vertical	Pass	
	1	0	Middle	10.06	2.67	10.65	18.04	Vertical	Pass	
	1	0	Highest	10.18	2.72	10.70	<mark>18.16</mark>	Vertical	Pass	
	1	0	Lowest	8.31	2.56	10.60	16.35	Horizontal	Pass	
	1	0	Middle	8.44	2.67	10.65	16.42	Horizontal	Pass	
16O A M	1	0	Highest	8.66	2.72	10.70	16.64	Horizontal	Pass	
16QAM	1	0	Lowest	9.78	2.56	10.60	17.82	Vertical	Pass	
	1	0	Middle	9.9	2.67	10.65	17.88	Vertical	Pass	
	1	0	Highest	10	2.72	10.70	<mark>17.98</mark>	Vertical	Pass	
Limit	EIRP<	IRP<2W=33dBm								



			Radi	ated Power	(EIRP) for L	TE Band 41	/ 15M				
	RB					Result	t				
Modulation			Channal	S G.Level	Cable	Gain	PMeas	Polarization	Conclusion		
Wodulation	Size	Offset	Channel	(dBm)	loss	(dBi)	E.I.R.P(dBm)	Of Max.	Conclusion		
	OIZE OIISE	Oliset				(dbi)	E.I.K.F (dbill)	EIRP			
	1	0	Lowest	9.45	2.56	10.60	17.49	Horizontal	Pass		
	1	0	Middle	9.48	2.67	10.65	17.46	Horizontal	Pass		
QPSK	1	0	Highest	9.91	2.72	10.70	17.89	Horizontal	Pass		
QFSK	1	0	Lowest	10.93	2.56	10.60	18.97	Vertical	Pass		
	1	0	Middle	10.91	2.67	10.65	18.89	Vertical	Pass		
	1	0	Highest	11.31	2.72	10.70	<mark>19.29</mark>	Vertical	Pass		
	1	0	Lowest	9.28	2.56	10.60	17.32	Horizontal	Pass		
	1	0	Middle	9.17	2.67	10.65	17.15	Horizontal	Pass		
16QAM	1	0	Highest	9.57	2.72	10.70	17.55	Horizontal	Pass		
TOQAW	1	0	Lowest	10.71	2.56	10.60	18.75	Vertical	Pass		
	1	0	Middle	10.64	2.67	10.65	18.62	Vertical	Pass		
	1	0	Highest	10.92	2.72	10.70	<mark>18.90</mark>	Vertical	Pass		
Limit	EIRP<	RP<2W=33dBm									

			Radi	ated Power ((EIRP) for L	TE Band 4	1 / 20M				
	RB				Result						
Modulation			Channel	S.C.Lovel	Cable	Coin	PMeas	Polarization	Conclusion		
Modulation	Size	Officet	Channel	S G.Level (dBm)	loss	Gain (dBi)		Of Max.	Conclusion		
	Size	ize Offset		(dBIII)	1) 1033 (GDI) E.	E.I.R.P(dBm)	EIRP				
	1	0	Lowest	9.6	2.56	10.60	17.64	Horizontal	Pass		
QPSK	1	0	Middle	9.65	2.67	10.65	17.63	Horizontal	Pass		
	1	0	Highest	9.91	2.72	10.70	17.89	Horizontal	Pass		
QFSK	1	0	Lowest	10.93	2.56	10.60	18.97	Vertical	Pass		
	1	0	Middle	10.99	2.67	10.65	18.97	Vertical	Pass		
	1	0	Highest	11.29	2.72	10.70	19.27	Vertical	Pass		
	1	0	Lowest	9.28	2.56	10.60	17.32	Horizontal	Pass		
	1	0	Middle	9.55	2.67	10.65	17.53	Horizontal	Pass		
16QAM	1	0	Highest	9.63	2.72	10.70	17.61	Horizontal	Pass		
TOQAM	1	0	Lowest	10.71	2.56	10.60	18.75	Vertical	Pass		
	1	0	Middle	10.91	2.67	10.65	18.89	Vertical	Pass		
	1	0	Highest	11.07	2.72	10.70	<mark>19.05</mark>	Vertical	Pass		
Limit	EIRP<	EIRP<2W=33dBm									



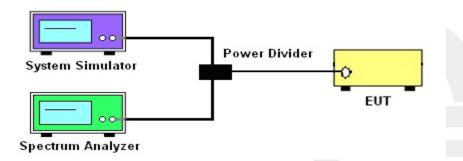
6. OCCUPIED BANDWIDTH

6.1 DESCRIPTION OF OCCUPIED BANDWIDTH MEASUREMENT

6.1.1 MEASUREMENT METHOD

- 1. The occupied bandwidth is 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 transmitted power.
- 2. The 26 db emission bandwidth is defined as the frequency range between two points, one above and one below the carrier frequency, at which the spectral density of the emission is attenuated 26 db below the maximum in-band spectral density of the modulated signal. spectral density (power per unit bandwidth) is to be measured with a detector of resolution bandwidth equal to approximately 1.0% of the emission bandwidth.

6.1.2 TEST SETUP



6.1.3 TEST PROCEDURES

- 1. The testing follows FCC KDB 971168 D01 v03r01 Section 4.1.and 4.2
- 2. The EUT was connected to spectrum and system simulator via a power divider
- 3. Select lowest, middle, and highest channels for each band and different modulation.
- 4. Set the test probe and measure the Occupied Bandwidth of the spectrum analyzer
- Measure and record the Occupied Bandwidth from the Spectrum Analyzer.

	LTE								
LTE BW	1.4M	3M	5M	10M	15M	20M			
Span	3MHz	6MHz	10MHz	20MHz	30MHz	40MHz			
RBW	30kHz	30kHz	100kHz	100kHz	300kHz	300kHz			
VBW	100kHz	100kHz	300kHz	300kHz	1000kHz	1000kHz			
Detector	PK	PK	PK	PK	PK	PK			
Trace	Max	Max	Max	Max	Max	Max			
Sweep Count	Auto	Auto	Auto	Auto	Auto	Auto			



6.1.4 MEASUREMENT RESULT

LTE BAND 2

	LTE Band 2 Bandwidth [MHz]											
	Mod	Low	est	Mid	dle	Highest						
BW [MHz]	IVIOU	26dB BW	99% BW	26dB BW	99% BW	26dB BW	99% BW					
1.4	QPSK	1.289	1.0911	1.304	1.0984	1.286	1.1033					
1.4	16-QAM	1.277	1.0899	1.298	1.0951	1.305	1.0990					
3	QPSK	2.854	2.6741	2.878	2.6824	2.869	2.6747					
3	16-QAM	2.861	2.6711	2.853	2.6760	2.858	2.6715					
5	QPSK	5.218	4.5342	5.130	4.5250	5.192	4.5273					
5	16-QAM	5.178	4.5246	5.205	4.5259	5.170	4.5250					
10	QPSK	9.910	8.9589	9.923	8.9726	9.869	8.9670					
10	16-QAM	9.814	8.9600	9.795	8.9552	9.876	8.9520					
15	QPSK	15.11	13.499	15.17	13.530	15.09	13.515					
15	16-QAM	15.08	13.546	16.10	13.530	15.01	13.512					
20	QPSK	19.37	17.942	19.84	17.979	19.39	17.893					
20	16-QAM	19.61	17.948	19.47	17.992	19.46	17.910					

	LTE Band 4 Bandwidth [MHz]											
	Mod	Low	est	Mid	dle	Highest						
BW [MHz]	IVIOU	26dB BW	99% BW	26dB BW	99% BW	26dB BW	99% BW					
1.4	QPSK	1.280	1.0905	1.308	1.0968	1.279	1.1027					
1.4	16-QAM	1.276	1.0888	1.298	1.0930	1.307	1.0987					
3	QPSK	2.860	2.6781	2.860	2.6782	2.857	2.6757					
3	16-QAM	2.858	2.6719	2.868	2.6723	2.862	2.6759					
5	QPSK	5.104	4.5186	5.181	4.5201	5.203	4.5257					
5	16-QAM	5.178	4.5210	5.178	4.5177	5.184	4.5262					
10	QPSK	9.875	8.9444	9.888	8.9536	9.739	8.9438					
10	16-QAM	9.707	8.9523	9.820	8.9475	9.891	8.9490					
15	QPSK	15.14	13.513	15.03	13.510	14.91	13.457					
15	16-QAM	14.92	13.517	14.97	13.495	15.00	13.506					
20	QPSK	19.57	17.929	19.77	17.954	19.38	17.903					
20	16-QAM	19.58	17.982	19.68	17.926	19.48	17.895					



LTE Band 5 Bandwidth [MHz]									
D/A/ [[A]]=1	Mad	Lowest		Middle		Highest			
BW [MHz]	Mod	26dB BW	99% BW	26dB BW	99% BW	26dB BW	99% BW		
1.4	QPSK	1.305	1.0988	1.279	1.1019	1.280	1.0908		
1.4	16-QAM	1.304	1.1000	1.276	1.0892	1.292	1.0955		
3	QPSK	2.860	2.6793	2.868	2.6775	2.839	2.6732		
3	16-QAM	2.864	2.6738	2.865	2.6760	2.859	2.6699		
5	QPSK	5.163	4.5246	5.202	4.5259	5.064	4.5119		
5	16-QAM	5.189	4.5215	5.172	4.5216	5.099	4.5139		
10	QPSK	9.780	8.9433	9.905	8.9398	9.897	8.9409		
10	16-QAM	9.691	8.9494	9.759	8.9382	9.792	8.9326		

LTE BAND 7

LTE Band 7 Bandwidth [MHz]									
D\A/ [\A -1	NAI	Lowest		Middle		Highest			
BW [MHz]	Mod	26dB BW	99% BW	26dB BW	99% BW	26dB BW	99% BW		
5	QPSK	5.161	4.5183	5.205	4.5275	5.194	4.5244		
5	16-QAM	5.319	4.5189	5.180	4.5274	5.196	4.5324		
10	QPSK	9.938	8.9553	9.900	8.9449	9.859	8.9526		
10	16-QAM	9.744	8.9503	9.795	8.9501	9.888	8.9521		
15	QPSK	15.03	13.452	15.20	13.496	15.09	13.541		
15	16-QAM	14.96	13.504	15.08	13.506	15.06	13.520		
20	QPSK	19.50	17.892	19.77	17.953	19.55	17.942		
20	16-QAM	19.64	17.927	19.62	17.943	19.79	17.982		

LTE Band 12 Bandwidth [MHz]									
D/A/ [[A]] = 1	Mod	Lowest		Middle		Highest			
BW [MHz]		26dB BW	99% BW	26dB BW	99% BW	26dB BW	99% BW		
1.4	QPSK	1.302	1.0963	1.280	1.1021	1.282	1.0920		
1.4	16-QAM	1.292	1.0941	1.307	1.0993	1.272	1.0894		
3	QPSK	2.863	2.6761	2.871	2.6812	2.850	2.6741		
3	16-QAM	2.858	2.6734	2.868	2.6818	2.857	2.6753		
5	QPSK	5.071	4.5152	5.043	4.5282	5.096	4.5214		
5	16-QAM	5.041	4.5185	5.080	4.5292	5.086	4.5210		
10	QPSK	9.821	8.93666	9.961	8.9700	9.811	8.9306		
10	16-QAM	9.791	8.9305	9.867	8.9519	9.678	8.9501		



LTE Band 13 Bandwidth [MHz]									
BW [MHz]	Mod	Lowest		Middle		Highest			
		26dB BW	99% BW	26dB BW	99% BW	26dB BW	99% BW		
5	QPSK	5.143	4.5265	5.202	4.5247	5.135	4.5177		
5	16-QAM	5.223	4.5232	5.154	4.5349	5.186	4.5223		
10	QPSK	/	/	9.930	8.9484	/	/		
10	16-QAM	/	/	9.696	8.9428	/	/		

LTE BAND 17

LTE Band 17 Bandwidth [MHz]									
BW [MHz]	Mod	Lowest		Middle		Highest			
		26dB BW	99% BW	26dB BW	99% BW	26dB BW	99% BW		
5	QPSK	5.132	4.5175	5.182	4.5300	5.184	4.5205		
5	16-QAM	5.155	4.5212	5.181	4.5330	5.157	4.5150		
10	QPSK	9.899	8.9567	9.905	8.9585	9.776	8.9346		
10	16-QAM	9.732	8.9549	9.823	8.9538	9.793	8.9478		

LTE Band 25 Bandwidth [MHz]								
	Mod	Lowest		Middle		Highest		
BW [MHz]	Mod	26dB BW	99% BW	26dB BW	99% BW	26dB BW	99% BW	
1.4	QPSK	1.278	1.0925	1.309	1.0957	1.274	1.1011	
1.4	16-QAM	1.272	1.2899	1.288	1.0936	1.304	1.0986	
3	QPSK	2.862	2.6783	2.846	2.6733	2.855	2.6787	
3	16-QAM	2.858	2.6744	2.864	2.6765	2.860	2.6716	
5	QPSK	5.159	4.5204	5.202	4.5254	5.144	4.5238	
5	16-QAM	5.197	4.5316	5.164	4.5372	5.192	4.5183	
10	QPSK	9.945	8.9598	9.773	8.9478	9.788	8.9401	
10	16-QAM	9.755	8.9614	9.805	8.9541	9.800	8.9485	
15	QPSK	15.14	13.546	15.07	13.537	14.91	13.483	
15	16-QAM	15.11	13.537	15.02	13.534	14.97	13.520	
20	QPSK	19.69	17.988	19.73	17.979	19.44	17.913	
20	16-QAM	19.58	17.936	19.75	17.978	19.43	17.915	



		LTE I	Band 26 Ba	andwidth [N	/lHz]		
BW [MHz]	Mod	Low	est	Mid	dle	High	nest
DVV [IVII-12]	IVIOU	26dB BW	99% BW	26dB BW	99% BW	26dB BW	99% BW
1.4	QPSK	1.279	1.0925	1.303	1.0964	1.274	1.035
1.4	16-QAM	1.278	1.0895	1.298	1.0943	1.298	1.0997
3	QPSK	2.865	2.6806	2.858	2.6776	2.856	2.6724
3	16-QAM	2.847	2.6731	2.846	2.6759	2.856	2.6713
5	QPSK	5.138	4.5199	5.182	4.5267	5.198	4.5222
5	16-QAM	5.139	4.5188	5.187	4.5256	5.106	4.5092
10	QPSK	9.849	8.9414	9.842	8.9535	9.742	8.9252
10	16-QAM	9.804	8.9447	9.834	8.9396	9.784	8.9284
15	QPSK	14.90	13.470	14.97	13.497	15.07	13.482
15	16-QAM	14.96	13.514	14.91	13.481	14.89	13.479

LTE BAND 41

		LTE E	Band 41 Ba	andwidth [N	/lHz]		
BW [MHz]	Mod	Low	est	Mid	dle	High	nest
בייווון איס	V [MHz] Mod	26dB BW	99% BW	26dB BW	99% BW	26dB BW	99% BW
5	QPSK	5.427	4.5467	5.122	4.5271	5.264	4.5415
5	16-QAM	5.181	4.5210	5.143	4.5219	5.277	4.5391
10	QPSK	10.11	8.9549	9.829	8.9539	9.973	8.9617
10	16-QAM	9.725	8.9387	10.04	8.9540	9.695	8.9574
15	QPSK	14.42	13.401	14.59	13.413	14.54	13.418
15	16-QAM	14.69	13.410	14.61	13.413	14.52	13.437
20	QPSK	18.88	17.851	18.93	17.872	19.25	17.881
20	16-QAM	18.96	17.861	19.05	17.866	18.93	17.861

NOTE:Test chart See Appendix A



7. CONDUCTED BAND EDGE

7.1 DESCRIPTION OF CONDUCTED BAND EDGE MEASUREMENT

7.1.1 MEASUREMENT METHOD

1. §22.917(a)

For operations in the 824 – 849 MHz band, the FCC limit is 43 + 10log10(P[Watts]) dB below the transmitter power P(Watts) in a 100kHz bandwidth. However, in the 1MHz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.

2. §24.238 (a)

For operations in the 1850-1910 and 1930-1990 MHz band, the FCC limit is 43 + 10log10(P[Watts]) dB below the transmitter power P(Watts) in a 1MHz bandwidth. However, in the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed

3. §27.53 (h)

For operations in the 1710 – 1755 MHz band, the FCC limit is 43 + 10log10(P[Watts]) dB below the transmitter power P(Watts) in a 1 MHz bandwidth. However, in the 1MHz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.

4. §27.53(m)(4)

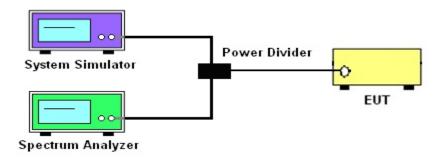
For operations in the 2500 MHz ~ 2570 MHz band this section, the attenuation factor shall be not less than 40 + 10 log (P) dB on all frequencies between the channel edge and 5 megahertz from the channel edge, 43 + 10 log (P) dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and 55 + 10 log (P) dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition,the attenuation factor shall not be less that 43 + 10 log (P) dB on all frequencies between 2490.5 MHzand 2496 MHz and 55 + 10 log (P) dB at or below 2490.5 MHz. Mobile Satellite Service licenseesoperating on frequencies below 2495 MHz may also submit a documented interference complaintagainst BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees.

5. §27.53 (g)

For operations in the 698 -746 MHz band, the FCC limit is 43 + 10log10(P[Watts]) dB below the transmitter power P(Watts) in a 100 kHz bandwidth. However, in the 100 kilohertz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed.



7.1.2 TEST SETUP



7.1.3 TEST PROCEDURES

- 1. The testing FCC KDB 971168 D01 v03r01 Section 6.0. and ANSI C63.26 2015 Section 5.7.
- 2. The EUT was connected to spectrum analyzer and system simulator via a power divider.
- 3. The band edges of low and high channels for the highest RF powers were measured. Set RBW >= 1% EBW in the 1MHz band immediately outside and adjacent to the band edge.
- 4. Set spectrum analyzer with RMS/AVG detector
- 5. The RF fundamental frequency should be excluded against the limit line in the operating frquency band.
- 6. The limit line is derived from 43 + 10log(P)dB below the transmitter power P(Watts)
- = P(W) [43 + 10log(P)] (dB)
- = [30 + 10log(P)] (dBm) [43 + 10log(P)] (dB)
- = -13dBm.

Band 7:

- = P(W) [55 + 10log(P)] (dB)
- = [30 + 10log(P)] (dBm) [55 + 10log(P)] (dB)
- = -25dBm.

			Lī	ſΕ		
LTE BW	1.4M	3M	5M	10M	15M	20M
Span	12MHz	13MHz	15MHz	20MHz	25MHz	30MHz
RBW	30kHz	30kHz	100kHz	100kHz	300kHz	300kHz
VBW	100kHz	100kHz	300kHz	300kHz	1000kHz	1000kHz
Detector	RMS	RMS	RMS	RMS	RMS	RMS
Trace	Max	Max	Max	Max	Max	Max
Sweep Count	Auto	Auto	Auto	Auto	Auto	Auto

7.1.4 MEASUREMENT RESULT

NOTE: Test chart See Appendix B



8. CONDUCTED SPURIOUS EMISSIO

8.1 DESCRIPTION OF CONDUCTED SPURIOUS EMISSION MEASUREMENT

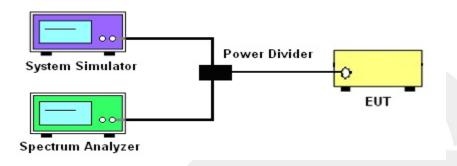
8.1.1 MEASUREMENT METHOD

The power of any emission outside of the authorized operating frequency ranges must be lower than the transmitter power (P) by a factor of at least 43 + 10 log (P) dB. For Band 7:

The power of any emission outside of the authorized operating frequency ranges must be lower than the transmitter power (P) by a factor of at least 55 + 10 log (P) dB.

It is measured by means of a calibrated spectrum analyzer and scanned from 30 MHz up to a frequency including its 10th harmonic.

8.1.2 TEST SETUP



8.1.3 TEST PROCEDURES

- 1.The testing FCC KDB 971168 D01 v03r01 Section 6.0. and ANSI C63.26 2015 Section 5.7.
- 2. The EUT was connected to spectrum analyzer and system simulator via a power divider.
- 3. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement
- 4. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking the record of maximum spurious emission.
- 5. The RF fundamental frequency should be excluded against the limit line in the operating frquency band.
- 6. The limit line is derived from 43 + 10log(P)dB below the transmitter power P(Watts)
- = P(W) [43 + 10log(P)] (dB) = [30 + 10log(P)] (dBm) [43 + 10log(P)] (dB)
- = -13dBm.

For Band 7:P(W)- [43 + 10log(P)] (dB) =-25dBm

		LTE										
LTE BW	1.4M	3M	5M	10M	15M	20M						
Span	Auto	Auto	Auto	Auto	Auto	Auto						
RBW	1000kHz	1000kHz	1000kHz	1000kHz	1000kHz	1000kHz						
VBW	3000kHz	3000kHz	3000kHz	3000kHz	3000kHz	3000kHz						
Detector	PK	PK	PK	PK	PK	PK						
Trace	Max	Max	Max	Max	Max	Max						

8.1.4 TEST RESULTS

NOTE: Test chart See Appendix C



9. RADIATED SPURIOUS EMISSION

9.1 DESCRIPTION OF RADIATED SPURIOUS EMISSION

9.1.1 MEASUREMENT METHOD

The radiated spurious emission was measured by substitution method according to ANSI C63.26 2015. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least 43 + 10 log (P) dB. For Band 7 The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least 55 + 10 log (P) dB. For Band. The spectrum is scanned from 30 MHz up to a frequency including its 10th harmonic.

5.1.2 Test Setup

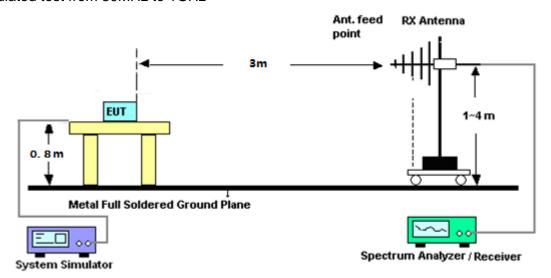
The procedure of radiated spurious emissions is as follows:

- a) Pre-calibration With pre-calibration method, the Radiated Spurious Emissions(RSE) is calculated as, RSE=Rx (dBuV) +CL (dB) +SA (dB) +Gain (dBi) -107 (dBuV to dBm) The SA is calibrated using following setup.
- b) EUT was placed on a 1.5 meter high non-conductive stand at a 3 meter test distance from the receive antenna. A receiving antenna was placed on the antenna mast 3 meters from the test item for emission measurements. The height of receiving antenna is 0.8m. The test setup refers to figure below. Detected emissions were maximized at each frequency by rotating the test item and adjusting the receiving antenna polarization. The radiated emission measurements of all non-harmonic and harmonics of the transmit frequency through the 10th harmonic were measured with peak detector and 1MHz bandwidth.

Radiated emissions measurements were made only at the upper, middle, and lower carrier frequencies It was decided that measurements at these three carrier frequencies would be sufficient to demonstrate compliance with emissions limits because it was seen that all the significant spurs occur well outside the band and no radiation was seen from a carrier in one block of any band into any of the other blocks.

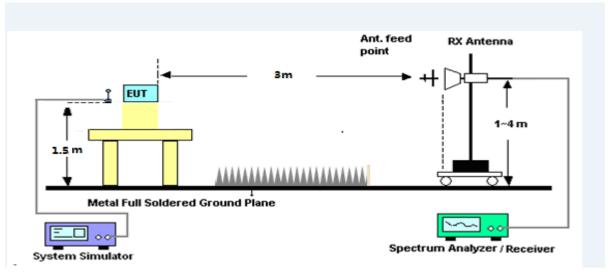
The substitution method is used. Substitution values at each frequency are measured before and saved to the test software. A "reference path loss" is established and the ARpl is the attenuation of "reference path loss", and including the gain of receive antenna, the gain of the preamplifier, the cable loss and the air loss. The measurement results are obtained as described below: Power=PMea+ARpl

For radiated test from 30MHz to 1GHz





For radiated test from above 1GHz



9.1.3 TEST PROCEDURES

- 1. The testing FCC KDB 971168 D01 Section 5.8 and ANSI C63.26 2015 Section 5.5.
- 2. The EUT was placed on a rotatable wooden table with 0.8 meter above ground.
- 3. The EUT was set 3 meters from the receiving antenna, which was mounted on the antenna tower.
- 4. The table was rotated 360 degrees to determine the position of the highest spurious emission.
- 5. The height of the receiving antenna is varied between one meter and four meters to search the maximum spurious emission for both horizontal and vertical polarizations
- 6. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking the record of maximum spurious emission.
- 7. A horn antenna was substituted in place of the EUT and was driven by a signal generator.
- 8. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
- 9. Taking the record of output power at antenna port.
- 10. Repeat step 7 to step 8 for another polarization.
- 11. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

The limit line is derived from 43 + 10log(P)dB below the transmitter power P(Watts)

- = P(W) [43 + 10log(P)] (dB)
- $= [30 + 10\log(P)] (dBm) [43 + 10\log(P)] (dB)$
- = -13dBm

For Band 7:

The limit line is derived from 55 + 10log(P)dB below the transmitter power P(Watts)

- = [30 + 10log(P)] (dBm) [55 + 10log(P)] (dB)
- = -25dBm

EIRP (dBm) = S.G. Power – Tx Cable Loss + Tx Antenna Gain

ERP (dBm) = EIRP - 2.15



9.1.4 TEST RESULTS

LTE BAND 2

LTE Band 2 / 1.4MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest (dBm) S G.Lev (dBm) Ant(dBi) (dBm) Loss (dBm) Limit (dBm) Margin (dBm) Polarity 3701.36 -34.83 12.60 12.93 -35.16 -13.00 -22.16 H 5551.69 -35.24 13.10 17.11 -39.25 -13.00 -26.25 H 7402.79 -32.99 11.50 22.20 -43.69 -13.00 -30.69 H 3701.36 -35.92 12.60 12.93 -36.25 -13.00 -23.25 V 5551.69 -33.83 13.10 17.11 -37.84 -13.00 -24.84 V 7402.79 -32.87 11.50 22.20 -43.57 -13.00 -22.55 V LTE Band 2/1.4MHz / QPSK / RB Size 1 Offset v/ The Worst Test Results for Middle Prequency(MHz) S G.Lev (dBm) Ant(dBi) Loss PMea Limit Margin (dBm) Polarity 7519.96 -34.85 12.60 12.93 -35.18	L DAND Z							
Frequency(MHz) (dBm) Ant(dBi) Loss (dBm) (dBm) Polarity 3701.36 -34.83 12.60 12.93 -35.16 -13.00 -22.16 H 5551.69 -35.24 13.10 17.11 -39.25 -13.00 -26.25 H 7402.79 -32.99 11.50 22.20 -43.69 -13.00 -30.69 H 3701.36 -35.92 12.60 12.93 -36.25 -13.00 -23.25 V 5551.69 -33.83 13.10 17.11 -37.84 -13.00 -24.84 V 7402.79 -32.87 11.50 22.20 -43.57 -13.00 -30.57 V LTE Band 2/1.4MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle Frequency(MHz) (dBm) Ant(dBi) Loss (dBm) -13.00 -22.18 H 5639.84 -34.69 13.10 17.11 -38.70 -13.00 -25.70 H 7519.96 -33.27 11.50 22	LTE Band 2 / 1	.4MHz / QF	SK/RB Si	ze 1 Offse	t 0/ The W	orst Test Re	esults for L	owest
(dBm) (dBm	Fraguenov(MHz)	S G.Lev	Ant(dDi)	Loca	PMea	Limit	Margin	Dolority
5551.69 -35.24 13.10 17.11 -39.25 -13.00 -26.25 H 7402.79 -32.99 11.50 22.20 -43.69 -13.00 -30.69 H 3701.36 -35.92 12.60 12.93 -36.25 -13.00 -23.25 V 5551.69 -33.83 13.10 17.11 -37.84 -13.00 -24.84 V 7402.79 -32.87 11.50 22.20 -43.57 -13.00 -30.57 V LTE Band 2 / 1.4MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle PMea Limit Margin (dBm) Margin (dBm) Polarity 3759.79 -34.85 12.60 12.93 -35.18 -13.00 -22.18 H 7519.96 -33.27 11.50 22.20 -43.97 -13.00 -25.70 H 3759.79 -35.49 12.60 12.93 -35.82 -13.00 -22.82 V 5639.84 -33.88 13.10 17.11 -37.89 -13.0	Frequency(MH2)	(dBm)	Anii(ubi)	L055	(dBm)	(dBm)	(dBm)	Polatity
7402.79 -32.99 11.50 22.20 -43.69 -13.00 -30.69 H 3701.36 -35.92 12.60 12.93 -36.25 -13.00 -23.25 V 5551.69 -33.83 13.10 17.11 -37.84 -13.00 -24.84 V 7402.79 -32.87 11.50 22.20 -43.57 -13.00 -24.84 V LTE Band 2 / 1.4MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle Frequency(MHz) S G.Lev (dBm) Ant(dBi) Loss PMea Limit Margin (dBm) Polarity 3759.79 -34.85 12.60 12.93 -35.18 -13.00 -22.18 H 7519.96 -33.27 11.50 22.20 -43.97 -13.00 -30.97 H 3759.79 -35.49 12.60 12.93 -35.82 -13.00 -22.82 V 5639.84 -33.88 13.10 17.11 -37.89 -13.00 -24.89 V								

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



LTE Band 2/3	BMHz / QP	SK / RB Siz	e 1 Offset	0/ The Wo	rst Test Re	sults for L	owest
	S G.Lev	۸ - مد(حا D :)	1	PMea	Limit	Margin	Delevity.
Frequency(MHz)	(dBm)	Ant(dBi)	Loss	(dBm)	(dBm)	(dBm)	Polarity
3703.00	-34.49	12.60	12.93	-34.82	-13.00	-21.82	Н
5554.30	-34.40	13.10	17.11	-38.41	-13.00	-25.41	Н
7406.68	-32.93	11.50	22.20	-43.63	-13.00	-30.63	Н
3703.00	-35.87	12.60	12.93	-36.20	-13.00	-23.20	V
5554.30	-34.45	13.10	17.11	-38.46	-13.00	-25.46	V
7406.68	-32.51	11.50	22.20	-43.21	-13.00	-30.21	V
LTE Band 2 /	3MHz/QP	SK / RB Siz	ze 1 Offset	0/ The Wo	orst Test Re	sults for N	liddle
Frequency(MHz)	S G.Lev	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
Frequency(MHZ)	(dBm)	Anii(ubi)	L055	(dBm)	(dBm)	(dBm)	Polatity
3759.85	-34.71	12.60	12.93	-35.04	-13.00	-22.04	Н
5639.98	-34.48	13.10	17.11	-38.49	-13.00	-25.49	Н
7520.08	-32.38	11.50	22.20	-43.08	-13.00	-30.08	Н
3759.85	-35.51	12.60	12.93	-35.84	-13.00	-22.84	V
5639.98	-34.34	13.10	17.11	-38.35	-13.00	-25.35	V
7520.08	-31.88	11.50	22.20	-42.58	-13.00	-29.58	V
LTE Band 2 / 3	MHz/QPS	SK / RB Siz	e 1 Offset	0/ The Wo	rst Test Res	sults for Hi	ghest
Frequency(MHz)	S G.Lev	Ant(dBi)	Loss	PMea	Limit	Margin	Dolority
Frequency(MHZ)	(dBm)	Anii(ubi)	L055	(dBm)	(dBm)	(dBm)	Polarity
3816.55	-34.10	12.60	12.93	-34.43	-13.00	-21.43	Н
5725.04	-34.49	13.10	17.11	-38.50	-13.00	-25.50	Н
7633.29	-32.15	11.50	22.20	-42.85	-13.00	-29.85	Н
3816.55	-35.94	12.60	12.93	-36.27	-13.00	-23.27	V
5725.04	-33.77	13.10	17.11	-37.78	-13.00	-24.78	V
7633.29	-32.38	11.50	22.20	-43.08	-13.00	-30.08	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



LTE Band 2 / 5	MHz/QP	SK / RB Siz	e 1 Offset	0/ The Wo	rst Test Re	sults for L	owest
Fragues av/MII=)	S G.Lev	Ant/dD:\	Loop	PMea	Limit	Margin	Dolority
Frequency(MHz)	(dBm)	Ant(dBi)	Loss	(dBm)	(dBm)	(dBm)	Polarity
3705.48	-33.97	12.60	12.93	-34.30	-13.00	-21.30	Н
5558.01	-34.03	13.10	17.11	-38.04	-13.00	-25.04	Н
7410.67	-33.64	11.50	22.20	-44.34	-13.00	-31.34	Н
3705.48	-34.77	12.60	12.93	-35.10	-13.00	-22.10	V
5558.01	-33.87	13.10	17.11	-37.88	-13.00	-24.88	V
7410.67	-32.88	11.50	22.20	-43.58	-13.00	-30.58	V
LTE Band 2 /	5MHz / QP	SK / RB Siz	e 1 Offset	0/ The Wo	orst Test Re	sults for N	liddle
Eroguopov(MHz)	S G.Lev	۸ nt/dDi\	Loop	PMea	Limit	Margin	Dolority
Frequency(MHz)	(dBm)	Ant(dBi)	Loss	(dBm)	(dBm)	(dBm)	Polarity
3760.17	-34.35	12.60	12.93	<mark>-34.68</mark>	-13.00	-21.68	Н
5640.13	-34.33	13.10	17.11	-38.34	-13.00	-25.34	Н
7520.18	-32.58	11.50	22.20	-43.28	-13.00	-30.28	Н
3760.17	-35.79	12.60	12.93	-36.12	-13.00	-23.12	V
5640.13	-34.53	13.10	17.11	-38.54	-13.00	-25.54	V
7520.18	-31.86	11.50	22.20	-42.56	-13.00	-29.56	V
LTE Band 2 / 5	MHz/QPS	SK / RB Siz	e 1 Offset	0/ The Wo	rst Test Res	sults for Hi	ighest
Eroguenes (MILE)	S G.Lev	۸ mt/dD:\	Loop	PMea	Limit	Margin	Dolority
Frequency(MHz)	(dBm)	Ant(dBi)	Loss	(dBm)	(dBm)	(dBm)	Polarity
3814.01	-34.00	12.60	12.93	-34.33	-13.00	-21.33	Н
5721.26	-34.88	13.10	17.11	-38.89	-13.00	-25.89	Н
7628.57	-32.39	11.50	22.20	-43.09	-13.00	-30.09	Н
3814.01	-35.03	12.60	12.93	-35.36	-13.00	-22.36	V
5721.26	-34.57	13.10	17.11	-38.58	-13.00	-25.58	V
7628.57	-32.73	11.50	22.20	-43.43	-13.00	-30.43	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



LTE Band 2 / 1	0MHz/QP	SK / RB Si	ze 1 Offse	t 0/ The W	orst Test Re	sults for L	.owest
F	S G.Lev	A := 4 (= 1 D ;)	1	PMea	Limit	Margin	Dalasita
Frequency(MHz)	(dBm)	Ant(dBi)	Loss	(dBm)	(dBm)	(dBm)	Polarity
3710.54	-33.99	12.60	12.93	-34.32	-13.00	-21.32	Н
5565.51	-35.24	13.10	17.11	-39.25	-13.00	-26.25	Н
7421.11	-32.69	11.50	22.20	-43.39	-13.00	-30.39	Н
3710.54	-34.61	12.60	12.93	-34.94	-13.00	-21.94	V
5565.51	-35.06	13.10	17.11	-39.07	-13.00	-26.07	V
7421.11	-32.48	11.50	22.20	-43.18	-13.00	-30.18	V
LTE Band 2 / 1	IOMHz / QF	PSK / RB Si	ze 1 Offse	t 0/ The W	orst Test Re	esults for N	Middle
Fragues av/MIIz)	S G.Lev	۸ صفر/ ما D: ۱	Loop	PMea	Limit	Margin	Dolority
Frequency(MHz)	(dBm)	Ant(dBi)	Loss	(dBm)	(dBm)	(dBm)	Polarity
3760.16	-34.42	12.60	12.93	-34.75	-13.00	-21.75	Н
5639.89	-35.31	13.10	17.11	-39.32	-13.00	-26.32	Н
7520.06	-33.36	11.50	22.20	-44.06	-13.00	-31.06	Н
3760.16	-35.75	12.60	12.93	-36.08	-13.00	-23.08	V
5639.89	-34.39	13.10	17.11	-38.40	-13.00	-25.40	V
7520.06	-33.02	11.50	22.20	-43.72	-13.00	-30.72	V
LTE Band 2 / 1	0MHz / QP	SK / RB Siz	ze 1 Offset	t 0/ The Wo	orst Test Re	sults for H	lighest
Frequency(MHz)	S G.Lev	۸ n+(dDi)	Loss	PMea	Limit	Margin	Dolority
Frequency(MH2)	(dBm)	Ant(dBi)	LUSS	(dBm)	(dBm)	(dBm)	Polarity
3809.14	-33.83	12.60	12.93	<mark>-34.16</mark>	-13.00	-21.16	Н
5714.05	-34.57	13.10	17.11	-38.58	-13.00	-25.58	Н
7617.84	-32.73	11.50	22.20	-43.43	-13.00	-30.43	Н
3809.14	-34.88	12.60	12.93	-35.21	-13.00	-22.21	V
5714.05	-35.04	13.10	17.11	-39.05	-13.00	-26.05	V
7617.84	-33.17	11.50	22.20	-43.87	-13.00	-30.87	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



DANU Z							
LTE Band 2 / 1	5MHz / QP	SK / RB Siz	ze 1 Offse	t 0/ The W	orst Test Re	esults for I	_owest
	S G.Lev	۸ ۱/ حاD: ۱	Lasa	PMea	Limit	Margin	Delevity.
Frequency(MHz)	(dBm)	Ant(dBi)	Loss	(dBm)	(dBm)	(dBm)	Polarity
3716.04	-34.13	12.60	12.93	-34.46	-13.00	-21.46	Н
5574.21	-34.44	13.10	17.11	-38.45	-13.00	-25.45	Н
7618.78	-32.27	11.50	22.20	-42.97	-13.00	-29.97	Н
3716.04	-34.84	12.60	12.93	-35.17	-13.00	-22.17	V
5574.21	-34.78	13.10	17.11	-38.79	-13.00	-25.79	V
7618.78	-32.59	11.50	22.20	-43.29	-13.00	-30.29	V
LTE Band 2 / 1	5MHz / QP	SK / RB Si	ze 1 Offse	t 0/ The W	orst Test R	esults for	Middle
	S G.Lev	۸ ۱/ حاD: ۱	Lasa	PMea	Limit	Margin	Delevity.
Frequency(MHz)	(dBm)	Ant(dBi)	Loss	(dBm)	(dBm)	(dBm)	Polarity
3759.94	-34.56	12.60	12.93	-34.89	-13.00	-21.89	Н
5640.26	-34.10	13.10	17.11	-38.11	-13.00	-25.11	Н
7519.89	-33.47	11.50	22.20	-44.17	-13.00	-31.17	Н
3759.94	-34.83	12.60	12.93	-35.16	-13.00	-22.16	V
5640.26	-33.98	13.10	17.11	-37.99	-13.00	-24.99	V
7519.89	-31.90	11.50	22.20	-42.60	-13.00	-29.60	V
LTE Band 2 / 1	5MHz / QP	SK / RB Siz	ze 1 Offset	0/ The Wo	orst Test Re	sults for h	lighest
Fragues ov (MHz)	S G.Lev	Ant/dDi)	Loop	PMea	Limit	Margin	Dolority
Frequency(MHz)	(dBm)	Ant(dBi)	Loss	(dBm)	(dBm)	(dBm)	Polarity
3803.80	-33.47	12.60	12.93	<mark>-33.80</mark>	-13.00	-20.80	Н
5705.51	-35.22	13.10	17.11	-39.23	-13.00	-26.23	Н
7607.23	-33.04	11.50	22.20	-43.74	-13.00	-30.74	Н
3803.80	-34.57	12.60	12.93	-34.90	-13.00	-21.90	V
5705.51	-34.55	13.10	17.11	-38.56	-13.00	-25.56	V
7607.23	-32.93	11.50	22.20	-43.63	-13.00	-30.63	V
						_	

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



LTE Band 2 / 2	0MHz / QP	SK / RB Siz	ze 1 Offse	t 0/ The W	orst Test Re	esults for I	_owest
Frequency(MHz)	S G.Lev	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
r requericy(ivii iz)	(dBm)	Antiably	L033	(dBm)	(dBm)	(dBm)	lolanty
3721.03	-34.58	12.60	12.93	-34.91	-13.00	-21.91	Н
5581.09	-34.64	13.10	17.11	-38.65	-13.00	-25.65	Н
7442.15	-33.07	11.50	22.20	-43.77	-13.00	-30.77	Н
3721.03	-35.08	12.60	12.93	-35.41	-13.00	-22.41	V
5581.09	-35.06	13.10	17.11	-39.07	-13.00	-26.07	V
7442.15	-32.34	11.50	22.20	-43.04	-13.00	-30.04	V
LTE Band 2 / 2	0MHz / QP	SK / RB Si	ze 1 Offse	t 0/ The W	orst Test R	esults for	Middle
	S G.Lev	A := 4 (= 1 D ;)	1	PMea	Limit	Margin	Dalasita
Frequency(MHz)	(dBm)	Ant(dBi)	Loss	(dBm)	(dBm)	(dBm)	Polarity
3759.81	-34.68	12.60	12.93	-35.01	-13.00	-22.01	Н
5640.08	-34.00	13.10	17.11	-38.01	-13.00	-25.01	Н
7519.98	-33.20	11.50	22.20	-43.90	-13.00	-30.90	Н
3759.81	-34.64	12.60	12.93	-34.97	-13.00	-21.97	V
5640.08	-33.82	13.10	17.11	-37.83	-13.00	-24.83	V
7519.98	-32.18	11.50	22.20	-42.88	-13.00	-29.88	V
LTE Band 2 / 2	0MHz / QP	SK / RB Siz	ze 1 Offset	0/ The Wo	orst Test Re	sults for h	lighest
Eroguenov/MIIa)	S G.Lev	۸ صد/طD:\	Loop	PMea	Limit	Margin	Doloritu
Frequency(MHz)	(dBm)	Ant(dBi)	Loss	(dBm)	(dBm)	(dBm)	Polarity
3798.40	-34.10	12.60	12.93	-34.43	-13.00	-21.43	Н
5697.56	-34.76	13.10	17.11	-38.77	-13.00	-25.77	Н
7597.12	-32.29	11.50	22.20	-42.99	-13.00	-29.99	Н
3798.40	-35.78	12.60	12.93	-36.11	-13.00	-23.11	V
5697.56	-34.36	13.10	17.11	-38.37	-13.00	-25.37	V
7597.12	-32.14	11.50	22.20	-42.84	-13.00	-29.84	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



LTE Band 4 / 1	.4MHz / QF	PSK / RB Si	ze 1 Offse	t 0/ The W	orst Test Re	sults for L	owest
	S G.Lev	۸ - مـ ۱/ حاD:)	1	PMea	Limit	Margin	Dalaritu
Frequency(MHz)	(dBm)	Ant(dBi)	Loss	(dBm)	(dBm)	(dBm)	Polarity
3422.24	-34.24	12.90	12.56	-33.90	-13.00	-20.90	Н
5133.34	-34.59	13.10	12.46	-33.95	-13.00	-20.95	Н
6844.68	-33.40	12.33	21.13	-42.20	-13.00	-29.20	Н
3422.24	-36.01	12.90	12.76	-35.87	-13.00	-22.87	V
5133.34	-33.98	13.10	16.32	-37.20	-13.00	-24.20	V
6844.68	-32.53	12.33	21.13	-41.33	-13.00	-28.33	V
LTE Band 4 / 1	.4MHz / QI	PSK / RB Si	ize 1 Offse	et 0/ The W	orst Test Re	esults for N	/liddle
Fraguesov/MHz)	S G.Lev	۸ nt/dDi)	Loop	PMea	Limit	Margin	Dolority
Frequency(MHz)	(dBm)	Ant(dBi)	Loss	(dBm)	(dBm)	(dBm)	Polarity
3465.91	-33.58	12.80	12.56	-33.34	-13.00	-20.34	Н
5199.20	-34.44	13.10	12.46	-33.80	-13.00	-20.80	Н
6931.82	-32.69	12.33	21.13	-41.49	-13.00	-28.49	Н
3465.91	-35.28	12.80	12.76	-35.24	-13.00	-22.24	V
5199.20	-34.35	13.10	16.32	-37.57	-13.00	-24.57	V
6931.82	-33.20	12.33	21.13	-42.00	-13.00	-29.00	V
LTE Band 4 / 1.	.4MHz / QF	SK / RB Si	ze 1 Offse	t 0/ The Wo	orst Test Re	sults for H	ighest
Fragueso (MIII-)	S G.Lev	۸ mt/dD:)	Loop	PMea	Limit	Margin	Dolority
Frequency(MHz)	(dBm)	Ant(dBi)	Loss	(dBm)	(dBm)	(dBm)	Polarity
3508.70	-34.32	12.61	12.56	-34.27	-13.00	-21.27	Н
5262.35	-35.00	13.12	12.46	-34.34	-13.00	-21.34	Н
7015.87	-32.22	12.32	21.13	-41.03	-13.00	-28.03	Н
3508.70	-35.80	12.61	12.76	-35.95	-13.00	-22.95	V
5262.35	-35.22	13.12	16.32	-38.42	-13.00	-25.42	V
7015.87	-32.08	12.32	21.13	-40.89	-13.00	-27.89	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



LIL Ballu 4/3	BMHz/QPS	SK / RB Siz	e 1 Offset	0/ The Wo	rst Test Re	sults for L	owest
	S G.Lev	Λ := 4 («ID:)	1.555	PMea	Limit	Margin	Delevitu
Frequency(MHz)	(dBm)	Ant(dBi)	Loss	(dBm)	(dBm)	(dBm)	Polarity
3424.40	-33.90	12.90	12.56	-33.56	-13.00	-20.56	Н
5136.67	-35.48	13.10	12.46	-34.84	-13.00	-21.84	Н
6848.51	-32.99	12.33	21.13	-41.79	-13.00	-28.79	Н
3424.40	-35.98	12.90	12.76	-35.84	-13.00	-22.84	V
5136.67	-34.88	13.10	16.32	-38.10	-13.00	-25.10	V
6848.51	-31.91	12.33	21.13	-40.71	-13.00	-27.71	V
LTE Band 4 / 3	3MHz / QP	SK / RB Siz	e 1 Offset	0/ The Wo	orst Test Re	sults for N	liddle
Fragues av/MHz	S G.Lev	۸ - مد(ما D: ۱	Loop	PMea	Limit	Margin	Dolority
Frequency(MHz)	(dBm)	Ant(dBi)	Loss	(dBm)	(dBm)	(dBm)	Polarity
3466.26	-33.59	12.80	12.56	-33.35	-13.00	-20.35	Н
5199.08	-35.23	13.10	12.46	-34.59	-13.00	-21.59	Н
6932.08	-33.42	12.33	21.13	-42.22	-13.00	-29.22	Н
3466.26	-34.97	12.80	12.76	-34.93	-13.00	-21.93	V
5199.08	-34.56	13.10	16.32	-37.78	-13.00	-24.78	V
6932.08	-32.07	12.33	21.13	-40.87	-13.00	-27.87	V
LTE Band 4 / 3	MHz/QPS	SK / RB Siz	e 1 Offset	0/ The Wo	rst Test Re	sults for H	ighest
Fraguanov/MHz)	S G.Lev	۸ nt/dDi\	Loop	PMea	Limit	Margin	Dolority
Frequency(MHz)	(dBm)	Ant(dBi)	Loss	(dBm)	(dBm)	(dBm)	Polarity
3506.42	-34.00	12.61	12.56	-33.95	-13.00	-20.95	Н
5262.29	-34.10	13.12	12.46	<mark>-33.44</mark>	-13.00	-20.44	Н
7013.02	-33.42	12.32	21.13	-42.23	-13.00	-29.23	Н
3506.42	-34.82	12.61	12.76	-34.97	-13.00	-21.97	V
5262.29	-34.70	13.12	16.32	-37.90	-13.00	-24.90	V
3202.29	<u> </u>						<u> </u>

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



LTE Band 4 / 5	MHz/QP	SK / RB Siz	e 1 Offset	0/ The Wo	rst Test Re	sults for L	owest
Fragues av/MII=)	S G.Lev	۸ صد(طD:)	Loop	PMea	Limit	Margin	Dolority
Frequency(MHz)	(dBm)	Ant(dBi)	Loss	(dBm)	(dBm)	(dBm)	Polarity
3426.30	-34.87	12.90	12.56	-34.53	-13.00	-21.53	Н
5139.56	-34.60	13.10	12.46	-33.96	-13.00	-20.96	Н
6852.77	-32.79	12.33	21.13	-41.59	-13.00	-28.59	Н
3426.30	-35.18	12.90	12.76	-35.04	-13.00	-22.04	V
5139.56	-34.34	13.10	16.32	-37.56	-13.00	-24.56	V
6852.77	-32.64	12.33	21.13	-41.44	-13.00	-28.44	V
LTE Band 4 /	5MHz/QP	SK / RB Siz	ze 1 Offset	0/ The Wo	orst Test Re	sults for N	liddle
Frequency(MHz)	S G.Lev	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
Frequency(MHZ)	(dBm)	Ant(ubi)	L088	(dBm)	(dBm)	(dBm)	Polarity
3466.13	-34.53	12.80	12.56	-34.29	-13.00	-21.29	Н
5199.09	-34.43	13.10	12.46	-33.79	-13.00	-20.79	Н
6932.19	-32.24	12.33	21.13	-41.04	-13.00	-28.04	Н
3466.13	-34.88	12.80	12.76	-34.84	-13.00	-21.84	V
5199.09	-34.67	13.10	16.32	-37.89	-13.00	-24.89	V
6932.19	-32.04	12.33	21.13	-40.84	-13.00	-27.84	V
LTE Band 4 / 5	MHz/QPS	SK / RB Siz	e 1 Offset	0/ The Wo	rst Test Res	sults for Hi	ighest
Frequency(MHz)	S G.Lev	Ant(dBi)	Loss	PMea	Limit	Margin	Dolority
Frequency(MHZ)	(dBm)	Ant(ubi)	L088	(dBm)	(dBm)	(dBm)	Polarity
3506.37	-33.49	12.61	12.56	<mark>-33.44</mark>	-13.00	-20.44	Н
5262.48	-34.45	13.12	12.46	-33.79	-13.00	-20.79	Н
7013.24	-32.90	12.32	21.13	-41.71	-13.00	-28.71	Н
3506.37	-35.98	12.61	12.76	-36.13	-13.00	-23.13	V
5262.48	-35.07	13.12	16.32	-38.27	-13.00	-25.27	V
7013.24	-32.86	12.32	21.13	-41.67	-13.00	-28.67	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



LTE Band 4 / 1	0MHz / QP	SK / RB Siz	ze 1 Offse	t 0/ The Wo	orst Test Re	sults for L	owest		
	S G.Lev	۸ ۱ (حا D :)	1	PMea	Limit	Margin	Delerite		
Frequency(MHz)	(dBm)	Ant(dBi)	Loss	(dBm)	(dBm)	(dBm)	Polarity		
3436.42	-33.68	12.90	12.56	-33.34	-13.00	-20.34	Н		
5154.23	-34.37	13.10	12.46	-33.73	-13.00	-20.73	Н		
6872.74	-33.42	12.33	21.13	-42.22	-13.00	-29.22	Н		
3436.42	-35.99	12.90	12.76	-35.85	-13.00	-22.85	V		
5154.23	-34.05	13.10	16.32	-37.27	-13.00	-24.27	V		
6872.74	-32.50	12.33	21.13	-41.30	-13.00	-28.30	V		
LTE Band 4 / 10MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle									
	S G.Lev	۸ ۱ (حا D :)	1	PMea	Limit	Margin	Dolovitu		
Frequency(MHz)	(dBm)	Ant(dBi)	Loss	(dBm)	(dBm)	(dBm)	Polarity		
3465.85	-33.45	12.80	12.56	-33.21	-13.00	-20.21	Н		
5199.09	-34.64	13.10	12.46	-34.00	-13.00	-21.00	Н		
6932.05	-32.84	12.33	21.13	-41.64	-13.00	-28.64	Н		
3465.85	-34.62	12.80	12.76	-34.58	-13.00	-21.58	V		
5199.09	-34.54	13.10	16.32	-37.76	-13.00	-24.76	V		
6932.05	-33.02	12.33	21.13	-41.82	-13.00	-28.82	V		
LTE Band 4 / 1	0MHz/QP	SK / RB Siz	ze 1 Offset	0/ The Wo	orst Test Re	sults for H	ighest		
Frequency(MHz)	S G.Lev	Ant(dDi)	Loop	PMea	Limit	Margin	Polarity		
Frequency(MHZ)	(dBm)	Ant(dBi)	Loss	(dBm)	(dBm)	(dBm)	Polatily		
3494.61	-34.89	12.61	12.56	-34.84	-13.00	-21.84	Н		
5241.50	-35.34	13.12	12.46	-34.68	-13.00	-21.68	Н		
6988.19	-32.96	12.32	21.13	-41.77	-13.00	-28.77	Н		
3494.61	-34.72	12.61	12.76	-34.87	-13.00	-21.87	V		
5241.50	-34.21	13.12	16.32	-37.41	-13.00	-24.41	V		
6988.19	-32.00	12.32	21.13	-40.81	-13.00	-27.81	V		

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



LTE Band 4 / 1	5MHz / QP	SK / RB Siz	ze 1 Offse	t 0/ The W	orst Test Re	esults for L	owest
	S G.Lev	A := (-ID:)	1	PMea	Limit	Margin	Dalasitas
Frequency(MHz)	(dBm)	Ant(dBi)	Loss	(dBm)	(dBm)	(dBm)	Polarity
3436.31	-34.44	12.90	12.56	-34.10	-13.00	-21.10	Н
5154.47	-34.19	13.10	12.46	-33.55	-13.00	-20.55	Н
6872.80	-32.49	12.33	21.13	-41.29	-13.00	-28.29	Н
3436.31	-35.54	12.90	12.76	-35.40	-13.00	-22.40	V
5154.47	-34.94	13.10	16.32	-38.16	-13.00	-25.16	V
6872.80	-32.97	12.33	21.13	-41.77	-13.00	-28.77	V
LTE Band 4 / 1	5MHz / QF	SK / RB Si	ze 1 Offse	t 0/ The W	orst Test R	esults for l	Middle
	S G.Lev	A := (-ID:)	1	PMea	Limit	Margin	Dalarit
Frequency(MHz)	(dBm)	Ant(dBi)	Loss	(dBm)	(dBm)	(dBm)	Polarity
3465.97	-33.71	12.80	12.56	-33.47	-13.00	-20.47	Н
5198.85	-34.18	13.10	12.46	-33.54	-13.00	-20.54	Н
6932.16	-32.38	12.33	21.13	-41.18	-13.00	-28.18	Н
3465.97	-34.85	12.80	12.76	-34.81	-13.00	-21.81	V
5198.85	-34.33	13.10	16.32	-37.55	-13.00	-24.55	V
6932.16	-32.16	12.33	21.13	-40.96	-13.00	-27.96	V
LTE Band 4 / 1	5MHz / QP	SK / RB Siz	ze 1 Offse	t 0/ The Wo	orst Test Re	sults for F	lighest
Fragues av (MIII-)	S G.Lev	\ nt/dD;\	Loop	PMea	Limit	Margin	Dolorit
Frequency(MHz)	(dBm)	Ant(dBi)	Loss	(dBm)	(dBm)	(dBm)	Polarity
3494.46	-34.41	12.61	12.56	-34.36	-13.00	-21.36	Н
5242.19	-34.72	13.12	12.46	-34.06	-13.00	-21.06	Н
6989.42	-33.48	12.32	21.13	-42.29	-13.00	-29.29	Н
3494.46	-34.66	12.61	12.76	-34.81	-13.00	-21.81	V
5242.19	-34.42	13.12	16.32	-37.62	-13.00	-24.62	V
6989.42	-32.31	12.32	21.13	-41.12	-13.00	-28.12	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



LTE Band 4 / 20MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest									
Fragues av/MII=)	S G.Lev	۸ صد(طD:)	Loop	PMea	Limit	Margin	Dolority		
Frequency(MHz)	(dBm)	Ant(dBi)	Loss	(dBm)	(dBm)	(dBm)	Polarity		
3440.27	-34.82	12.90	12.56	-34.48	-13.00	-21.48	Н		
5160.65	-35.06	13.10	12.46	-34.42	-13.00	-21.42	Н		
6880.66	-32.35	12.33	21.13	-41.15	-13.00	-28.15	Н		
3440.27	-35.23	12.90	12.76	-35.09	-13.00	-22.09	V		
5160.65	-34.85	13.10	16.32	-38.07	-13.00	-25.07	V		
6880.66	-32.80	12.33	21.13	-41.60	-13.00	-28.60	V		
LTE Band 4 / 2	0MHz / QF	SK / RB Si	ze 1 Offse	t 0/ The W	orst Test Re	esults for N	Middle		
Eroguopov(MHz)	S G.Lev	۸ nt/dDi\	Loss	PMea	Limit	Margin	Dolority		
Frequency(MHz)	(dBm)	Ant(dBi)	LOSS	(dBm)	(dBm)	(dBm)	Polarity		
3466.08	-34.75	12.80	12.56	-34.51	-13.00	-21.51	Н		
5199.01	-34.94	13.10	12.46	-34.30	-13.00	-21.30	Н		
6932.07	-33.05	12.33	21.13	-41.85	-13.00	-28.85	Н		
3466.08	-35.24	12.80	12.76	-35.20	-13.00	-22.20	V		
5199.01	-34.45	13.10	16.32	-37.67	-13.00	-24.67	V		
6932.07	-33.04	12.33	21.13	-41.84	-13.00	-28.84	V		
LTE Band 4 / 2	0MHz/QP	SK / RB Siz	ze 1 Offset	0/ The Wo	orst Test Re	sults for H	lighest		
Eroguopov(MHz)	S G.Lev	۸ nt/dDi\	Loss	PMea	Limit	Margin	Dolority		
Frequency(MHz)	(dBm)	Ant(dBi)	LUSS	(dBm)	(dBm)	(dBm)	Polarity		
3490.76	-34.07	12.61	12.56	-34.02	-13.00	-21.02	Н		
5235.06	-34.58	13.12	12.46	-33.92	-13.00	-20.92	Н		
6979.87	-33.65	12.32	21.13	-42.46	-13.00	-29.46	Н		
3490.76	-35.89	12.61	12.76	-36.04	-13.00	-23.04	V		
5235.06	-34.52	13.12	16.32	-37.72	-13.00	-24.72	V		
0200.00									

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



LTE Band 5 / 1	.4MHz / QF	PSK / RB Si	ize 1 Offse	t 0/ The W	orst Test R	esults for	Lowest	
- 441.	S G.Lev	A (/ 151)		PMea	Limit	Margin	D	
Frequency(MHz)	(dBm)	Ant(dBi)	Loss	(dBm)	(dBm)	(dB)	Polarity	
1649.31	-33.90	9.56	9.72	-34.06	-13.00	-21.06	Н	
2473.69	-34.99	10.50	10.86	-35.35	-13.00	-22.35	Н	
3298.54	-32.27	12.78	11.57	-31.06	-13.00	-18.06	Н	
1649.31	-35.62	9.56	9.34	-35.40	-13.00	-22.40	V	
2473.69	-34.94	10.50	10.42	-34.86	-13.00	-21.86	V	
3298.54	-32.38	12.78	11.12	-30.72	-13.00	-17.72	V	
LTE Band 5 / 1.4MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle								
- (A411.)	S G.Lev	A ((ID.))		PMea	Limit	Margin	5.1.4	
Frequency(MHz)	(dBm)	Ant(dBi)	Loss	(dBm)	(dBm)	(dB)	Polarity	
1672.98	-34.58	9.56	9.72	-34.74	-13.00	-21.74	Н	
2509.26	-34.75	10.50	10.86	-35.11	-13.00	-22.11	Н	
3345.95	-33.62	12.78	11.57	-32.41	-13.00	-19.41	Н	
1672.98	-35.16	9.56	9.34	-34.94	-13.00	-21.94	V	
2509.26	-34.96	10.50	10.42	-34.88	-13.00	-21.88	V	
3345.95	-32.20	12.78	11.12	-30.54	-13.00	-17.54	V	
LTE Band 5 / 1.	.4MHz / QP	SK / RB Si	ze 1 Offse	t 0/ The W	orst Test Re	esults for l	Highest	
	S G.Lev	A 4 (-ID:)	1	PMea	Limit	Margin	Dalasitus	
Frequency(MHz)	(dBm)	Ant(dBi)	Loss	(dBm)	(dBm)	(dB)	Polarity	
1696.47	-34.67	9.56	9.72	-34.83	-13.00	-21.83	Н	
2544.55	-34.00	10.50	10.86	-34.36	-13.00	-21.36	Н	
3393.07	-33.42	12.78	11.57	-32.21	-13.00	-19.21	Н	
1696.47	-35.36	9.56	9.34	-35.14	-13.00	-22.14	V	
2544.55	-34.73	10.50	10.42	-34.65	-13.00	-21.65	V	
3393.07	-31.71	12.78	11.12	-30.05	-13.00	-17.05	V	

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



LTE Band 5 / 3	3MHz / QP	SK / RB Siz	ze 1 Offset	0/ The Wo	orst Test Re	sults for L	owest		
- (A41.)	S G.Lev	A ((ID')		PMea	Limit	Margin	5.1.7		
Frequency(MHz)	(dBm)	Ant(dBi)	Loss	(dBm)	(dBm)	(dB)	Polarity		
1650.69	-33.88	9.56	9.72	-34.04	-13.00	-21.04	Н		
2476.39	-34.39	10.50	10.86	-34.75	-13.00	-21.75	Н		
3301.78	-32.53	12.78	11.57	-31.32	-13.00	-18.32	Н		
1650.69	-35.50	9.56	9.34	-35.28	-13.00	-22.28	V		
2476.39	-34.16	10.50	10.42	-34.08	-13.00	-21.08	V		
3301.78	-32.92	12.78	11.12	-31.26	-13.00	-18.26	V		
LTE Band 5 / 3MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle									
Fragueray (MIII-)	S G.Lev	۸ nat/dD:\	Loop	PMea	Limit	Margin	Doloritu		
Frequency(MHz)	(dBm)	Ant(dBi)	Loss	(dBm)	(dBm)	(dB)	Polarity		
1672.91	-33.87	9.56	9.72	-34.03	-13.00	-21.03	Н		
2509.28	-35.18	10.50	10.86	-35.54	-13.00	-22.54	Н		
3345.75	-32.80	12.78	11.57	-31.59	-13.00	-18.59	Н		
1672.91	-35.66	9.56	9.34	-35.44	-13.00	-22.44	V		
2509.28	-34.06	10.50	10.42	-33.98	-13.00	-20.98	V		
3345.75	-32.48	12.78	11.12	-30.82	-13.00	-17.82	V		
LTE Band 5 / 3	MHz / QPS	SK / RB Siz	e 1 Offset	0/ The Wo	rst Test Re	sults for H	ighest		
Fragueray (MIII-)	S G.Lev	۸ mt/dD:\	Loop	PMea	Limit	Margin	Doloritu		
Frequency(MHz)	(dBm)	Ant(dBi)	Loss	(dBm)	(dBm)	(dB)	Polarity		
1694.71	-34.76	9.56	9.72	-34.92	-13.00	-21.92	Н		
2542.27	-35.10	10.50	10.86	-35.46	-13.00	-22.46	Н		
3389.55	-33.14	12.78	11.57	-31.93	-13.00	-18.93	Н		
1694.71	-35.55	9.56	9.34	-35.33	-13.00	-22.33	V		
2542.27	-34.30	10.50	10.42	-34.22	-13.00	-21.22	V		
3389.55	-32.84	12.78	11.12	-31.18	-13.00	-18.18	V		

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



LTE Band 5 / \$	5MHz/QP	SK / RB Siz	e 1 Offset	0/ The Wo	orst Test Re	sults for L	owest		
(1411)	S G.Lev	A . (/ ID')	1	PMea	Limit	Margin	D. L. Y		
Frequency(MHz)	(dBm)	Ant(dBi)	Loss	(dBm)	(dBm)	(dB)	Polarity		
1653.00	-33.70	9.56	9.72	-33.86	-13.00	-20.86	Н		
2479.22	-35.28	10.50	10.86	-35.64	-13.00	-22.64	Н		
3305.59	-33.33	12.78	11.57	-32.12	-13.00	-19.12	Н		
1653.00	-35.96	9.56	9.34	-35.74	-13.00	-22.74	V		
2479.22	-35.25	10.50	10.42	-35.17	-13.00	-22.17	V		
3305.59	-32.79	12.78	11.12	-31.13	-13.00	-18.13	V		
LTE Band 5 / 5MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle									
	S G.Lev	۸ ۱/ ماD: ۱	Lana	PMea	Limit	Margin	Dalaritu		
Frequency(MHz)	(dBm)	Ant(dBi)	Loss	(dBm)	(dBm)	(dB)	Polarity		
1672.91	-33.85	9.56	9.72	-34.01	-13.00	-21.01	Н		
2509.13	-35.29	10.50	10.86	-35.65	-13.00	-22.65	Н		
3345.82	-33.49	12.78	11.57	-32.28	-13.00	-19.28	Н		
1672.91	-35.97	9.56	9.34	-35.75	-13.00	-22.75	V		
2509.13	-34.19	10.50	10.42	-34.11	-13.00	-21.11	V		
3345.82	-33.16	12.78	11.12	-31.50	-13.00	-18.50	V		
LTE Band 5 / 5	MHz / QPS	SK / RB Siz	e 1 Offset	0/ The Wo	rst Test Re	sults for H	ighest		
Fragueray (MIII-)	S G.Lev	Λ mt/dD:\	Loop	PMea	Limit	Margin	Doloritu		
Frequency(MHz)	(dBm)	Ant(dBi)	Loss	(dBm)	(dBm)	(dB)	Polarity		
1692.66	-34.90	9.56	9.72	-35.06	-13.00	-22.06	Н		
2539.38	-35.38	10.50	10.86	-35.74	-13.00	-22.74	Н		
3385.87	-32.36	12.78	11.57	-31.15	-13.00	-18.15	Н		
1692.66	-34.98	9.56	9.34	-34.76	-13.00	-21.76	V		
2539.38	-34.75	10.50	10.42	-34.67	-13.00	-21.67	V		
3385.87	-32.89	12.78	11.12	-31.23	-13.00	-18.23	V		

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line. Test is divided into three directions, X/Y/Z. X pattern for the worst.



LTE Band 5 / 1	0MHz / QP	SK / RB Si	ze 1 Offse	t 0/ The Wo	orst Test R	esults for l	_owest		
	S G.Lev			PMea	Limit	Margin			
Frequency(MHz)	(dBm)	Ant(dBi)	Loss	(dBm)	(dBm)	(dB)	Polarity		
1657.70	-33.47	9.56	9.72	-33.63	-13.00	-20.63	Н		
2486.91	-34.07	10.50	10.86	-34.43	-13.00	-21.43	Н		
3315.98	-32.43	12.78	11.57	-31.22	-13.00	-18.22	Н		
1657.70	-35.99	9.56	9.34	-35.77	-13.00	-22.77	V		
2486.91	-34.07	10.50	10.42	-33.99	-13.00	-20.99	V		
3315.98	-32.64	12.78	11.12	-30.98	-13.00	-17.98	V		
LTE Band 5 / 10MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle									
Fragues av/MII=)	S G.Lev	۸ mt/dD:\	Loop	PMea	Limit	Margin	Dolority		
Frequency(MHz)	(dBm)	Ant(dBi)	Loss	(dBm)	(dBm)	(dB)	Polarity		
1672.66	-34.59	9.56	9.72	-34.75	-13.00	-21.75	Н		
2509.18	-35.18	10.50	10.86	-35.54	-13.00	-22.54	Н		
3345.72	-32.48	12.78	11.57	-31.27	-13.00	-18.27	Н		
1672.66	-35.93	9.56	9.34	-35.71	-13.00	-22.71	V		
2509.18	-35.13	10.50	10.42	-35.05	-13.00	-22.05	V		
3345.72	-32.95	12.78	11.12	-31.29	-13.00	-18.29	V		
LTE Band 5/ 1	0MHz/QP	SK / RB Siz	ze 1 Offset	0/ The Wo	orst Test Re	sults for H	lighest		
Frequency(MHz)	S G.Lev	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity		
Frequency(MHZ)	(dBm)	Anii(ubi)	L088	(dBm)	(dBm)	(dB)	Polarity		
1687.91	-34.34	9.56	9.72	-34.50	-13.00	-21.50	Н		
2531.70	-34.04	10.50	10.86	-34.40	-13.00	-21.40	Н		
3375.64	-33.59	12.78	11.57	-32.38	-13.00	-19.38	Н		
1687.91	-34.85	9.56	9.34	-34.63	-13.00	-21.63	V		
2531.70	-34.82	10.50	10.42	-34.74	-13.00	-21.74	V		
3375.64	-32.40	12.78	11.12	-30.74	-13.00	-17.74	V		

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line. Test is divided into three directions, X/Y/Z. X pattern for the worst.



							
LTE Band 7 /	5MHz/QP	SK / RB Siz	ze 1 Offset	0/ The Wo	rst Test Re	sults for L	.owest
(1411)	S G.Lev	A . (/ ID.)	1	PMea	Limit	Margin	D. L. H
Frequency(MHz)	(dBm)	Ant(dBi)	Loss	(dBm)	(dBm)	(dB)	Polarity
5005.49	-34.13	12.66	12.54	-34.01	-25.00	-9.01	Н
7507.81	-34.55	11.46	12.57	-35.66	-25.00	-10.66	Н
10010.70	-32.37	12.79	21.23	-40.81	-25.00	-15.81	Н
5005.49	-34.62	12.66	12.54	-34.50	-25.00	-9.50	V
7507.81	-34.36	11.46	12.57	-35.47	-25.00	-10.47	V
10010.70	-32.13	12.79	21.23	-40.57	-25.00	-15.57	V
LTE Band 7 /	5MHz / QP	SK / RB Si	ze 1 Offset	t 0/ The Wo	orst Test Re	esults for N	Middle
	S G.Lev	A 4 (-ID:)	1	PMea	Limit	Margin	Dalasitas
Frequency(MHz)	(dBm)	Ant(dBi)	Loss	(dBm)	(dBm)	(dB)	Polarity
5069.81	-34.87	12.72	12.55	-34.70	-25.00	-9.70	Н
7605.26	-34.94	11.46	12.57	-36.05	-25.00	-11.05	Н
10139.91	-32.31	12.09	21.25	-41.47	-25.00	-16.47	Н
5069.81	-34.88	12.80	12.55	-34.63	-25.00	-9.63	V
7605.26	-33.86	13.10	12.57	-33.33	-25.00	-8.33	V
10139.91	-31.86	12.33	21.25	-40.78	-25.00	-15.78	V
LTE Band 7 /	5MHz / QP	SK / RB Siz	ze 1 Offset	0/ The Wo	rst Test Re	sults for H	ighest
Fragues av/MII=)	S G.Lev	۸ - مد(ما D: ۱	Loop	PMea	Limit	Margin	Dolority
Frequency(MHz)	(dBm)	Ant(dBi)	Loss	(dBm)	(dBm)	(dB)	Polarity
5134.09	-34.31	12.76	12.57	-34.12	-25.00	-9.12	Н
7701.30	-34.84	11.45	12.58	-35.97	-25.00	-10.97	Н
10268.54	-32.64	12.28	21.27	-41.63	-25.00	-16.63	Н
5134.09	-35.51	12.76	12.57	-35.32	-25.00	-10.32	V
7701.30	-34.70	11.45	12.58	-35.83	-25.00	-10.83	V
10268.54	-32.63	12.28	21.27	-41.62	-25.00	-16.62	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



DAND I							
LTE Band 7 / 1	10MHz / QF	PSK / RB Si	ze 1 Offse	t 0/ The Wo	orst Test R	esults for I	owest
Frequency(MHz)	S G.Lev	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
Frequency(MH2)	(dBm)	Anii(ubi)	L088	(dBm)	(dBm)	(dB)	Polarity
5010.27	-34.21	12.66	12.54	-34.09	-25.00	-9.09	Н
7515.86	-34.31	11.46	12.57	-35.42	-25.00	-10.42	Н
10021.21	-33.50	12.79	21.23	-41.94	-25.00	-16.94	Н
5010.27	-34.92	12.66	12.54	-34.80	-25.00	-9.80	V
7515.86	-34.49	11.46	12.57	-35.60	-25.00	-10.60	V
10021.21	-32.28	12.79	21.23	-40.72	-25.00	-15.72	V
LTE Band 7 / 10MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle							
	S G.Lev	۸ ۱/ حاD: ۱	1	PMea	Limit	Margin	Delevity.
Frequency(MHz)	(dBm)	Ant(dBi)	Loss	(dBm)	(dBm)	(dB)	Polarity
5069.77	-33.61	12.72	12.55	-33.44	-25.00	-8.44	Н
7605.02	-35.31	11.46	12.57	-36.42	-25.00	-11.42	Н
10139.89	-32.50	12.09	21.25	-41.66	-25.00	-16.66	Н
5069.77	-34.60	12.80	12.55	-34.35	-25.00	-9.35	V
7605.02	-34.68	13.10	12.57	-34.15	-25.00	-9.15	V
10139.89	-31.95	12.33	21.25	-40.87	-25.00	-15.87	V
LTE Band 7 / 1	0MHz/QF	SK / RB Si	ze 1 Offse	t 0/ The Wo	orst Test Re	esults for H	lighest
Fragues av/MII=)	S G.Lev	۸ صد(طD:)	Loop	PMea	Limit	Margin	Dolovity
Frequency(MHz)	(dBm)	Ant(dBi)	Loss	(dBm)	(dBm)	(dB)	Polarity
5129.35	-33.45	12.76	12.57	-33.26	-25.00	-8.26	Н
7694.24	-34.21	11.45	12.58	-35.34	-25.00	-10.34	Н
10258.94	-32.28	12.28	21.27	-41.27	-25.00	-16.27	Н
5129.35	-34.77	12.76	12.57	-34.58	-25.00	-9.58	V
7694.24	-34.75	11.45	12.58	-35.88	-25.00	-10.88	V
10258.94	-33.04	12.28	21.27	-42.03	-25.00	-17.03	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



LTE Band 7 / 1	I5MHz / QF	PSK / RB Si	ze 1 Offse	t 0/ The Wo	orst Test R	esults for l	_owest
(1411)	S G.Lev	A . (/ ID.)		PMea	Limit	Margin	D. L. H
Frequency(MHz)	(dBm)	Ant(dBi)	Loss	(dBm)	(dBm)	(dB)	Polarity
5016.13	-34.14	12.66	12.54	-34.02	-25.00	-9.02	Н
7524.06	-34.28	11.46	12.57	-35.39	-25.00	-10.39	Н
10032.19	-32.48	12.79	21.23	-40.92	-25.00	-15.92	Н
5016.13	-34.93	12.66	12.54	-34.81	-25.00	-9.81	V
7524.06	-34.95	11.46	12.57	-36.06	-25.00	-11.06	V
10032.19	-31.93	12.79	21.23	-40.37	-25.00	-15.37	V
LTE Band 7 /	15MHz / QI	PSK / RB S	ize 1 Offse	t 0/ The W	orst Test R	esults for	Middle
Fragues av/MII=)	S G.Lev	۸ - مد(طD:)	Laga	PMea	Limit	Margin	Dolority
Frequency(MHz)	(dBm)	Ant(dBi)	Loss	(dBm)	(dBm)	(dB)	Polarity
5070.11	-34.76	12.72	12.55	-34.59	-25.00	-9.59	Н
7604.95	-34.42	11.46	12.57	-35.53	-25.00	-10.53	Н
10139.92	-32.93	12.09	21.25	-42.09	-25.00	-17.09	Н
5070.11	-34.65	12.80	12.55	-34.40	-25.00	-9.40	V
7604.95	-34.32	13.10	12.57	-33.79	-25.00	-8.79	V
10139.92	-32.47	12.33	21.25	-41.39	-25.00	-16.39	V
LTE Band 7 / 1	5MHz / QP	SK / RB Si	ze 1 Offse	t 0/ The Wo	orst Test Re	esults for H	lighest
Fragues av/MII=)	S G.Lev	۸ - مد(ما D: ۱	Laga	PMea	Limit	Margin	Dolority
Frequency(MHz)	(dBm)	Ant(dBi)	Loss	(dBm)	(dBm)	(dB)	Polarity
5123.36	-34.57	12.76	12.57	-34.38	-25.00	-9.38	Н
7523.92	-35.41	11.45	12.58	-36.54	-25.00	-11.54	Н
10032.38	-32.58	12.28	21.27	-41.57	-25.00	-16.57	Н
5123.36	-35.12	12.76	12.57	-34.93	-25.00	-9.93	V
7523.92	-34.06	11.45	12.58	-35.19	-25.00	-10.19	V
10032.38	-32.39	12.28	21.27	-41.38	-25.00	-16.38	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



LTE Band 7 / 2	20MHz / QF	PSK / RB Si	ze 1 Offse	t 0/ The Wo	orst Test R	esults for l	owest	
- (5411.)	S G.Lev	A ((ID))		PMea	Limit	Margin	5	
Frequency(MHz)	(dBm)	Ant(dBi)	Loss	(dBm)	(dBm)	(dB)	Polarity	
5021.02	-34.28	12.66	12.54	-34.16	-25.00	-9.16	Н	
7531.22	-34.62	11.46	12.57	-35.73	-25.00	-10.73	Н	
7524.32	-33.14	12.79	21.23	-41.58	-25.00	-16.58	Н	
5021.02	-35.90	12.66	12.54	-35.78	-25.00	-10.78	V	
7531.22	-35.02	11.46	12.57	-36.13	-25.00	-11.13	V	
7524.32	-33.20	12.79	21.23	-41.64	-25.00	-16.64	V	
LTE Band 7 / 20MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle								
	S G.Lev	۸ ۱/ حاD: ۱	1	PMea	Limit	Margin	Dolovitu	
Frequency(MHz)	(dBm)	Ant(dBi)	Loss	(dBm)	(dBm)	(dB)	Polarity	
5069.88	-34.13	12.72	12.55	-33.96	-25.00	-8.96	Н	
7604.87	-34.58	11.46	12.57	-35.69	-25.00	-10.69	Н	
10140.09	-32.58	12.09	21.25	-41.74	-25.00	-16.74	Н	
5069.88	-35.47	12.80	12.55	-35.22	-25.00	-10.22	V	
7604.87	-34.66	13.10	12.57	-34.13	-25.00	-9.13	V	
10140.09	-32.47	12.33	21.25	-41.39	-25.00	-16.39	V	
LTE Band 7 / 2	20MHz / QF	SK / RB Si	ze 1 Offse	t 0/ The Wo	orst Test Re	esults for H	lighest	
Fraguanov/MHz)	S G.Lev	۸ nt/dDi\	Loop	PMea	Limit	Margin	Dolority	
Frequency(MHz)	(dBm)	Ant(dBi)	Loss	(dBm)	(dBm)	(dB)	Polarity	
5118.75	-33.59	12.76	12.57	-33.40	-25.00	-8.40	Н	
7678.32	-35.48	11.45	12.58	-36.61	-25.00	-11.61	Н	
10237.86	-32.58	12.28	21.27	-41.57	-25.00	-16.57	Н	
5118.75	-35.56	12.76	12.57	-35.37	-25.00	-10.37	V	
7678.32	-35.09	11.45	12.58	-36.22	-25.00	-11.22	V	
10237.86	-32.31	12.28	21.27	-41.30	-25.00	-16.30	V	

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



LTER LAG	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	DOI/ / DD 0					
LTE Band 12 /		PSK/RBS	ize 1 Offse	1	I	esults for	Lowest
Frequency(MHz)	S G.Lev	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
r requericy(ivii iz)	(dBm)	Anti(abi)	L033	(dBm)	(dBm)	(dBm)	1 Glarity
1399.20	-34.64	8.17	9.34	-35.81	-13.00	-22.81	Н
2098.91	-34.01	9.53	10.42	-34.90	-13.00	-21.90	Н
2798.44	-32.29	11.27	11.12	-32.14	-13.00	-19.14	Н
1399.20	-35.48	8.17	9.34	-36.65	-13.00	-23.65	V
2098.91	-33.97	9.53	10.42	-34.86	-13.00	-21.86	V
2798.44	-32.72	11.27	11.12	-32.57	-13.00	-19.57	V
LTE Band 12 /	1.4MHz / Q	PSK / RB S	ize 1 Offs	et 0/ The V	Vorst Test R	esults for	Middle
	S G.Lev	A 4/ -ID:\	PMea	Limit	Margin	Delevite	
Frequency(MHz)	(dBm)	Ant(dBi)	Loss	(dBm)	(dBm)	(dBm)	Polarity
1414.78	-33.78	8.17	9.34	-34.95	-13.00	-21.95	Н
2122.37	-34.38	9.53	10.42	-35.27	-13.00	-22.27	Н
2829.87	-33.34	11.27	11.12	-33.19	-13.00	-20.19	Н
1414.78	-35.04	8.17	9.34	-36.21	-13.00	-23.21	V
2122.37	-35.18	9.53	10.42	-36.07	-13.00	-23.07	V
2829.87	-32.86	11.27	11.12	-32.71	-13.00	-19.71	V
LTE Band 12 / 1	.4MHz / QI	PSK / RB S	ize 1 Offse	et 0/ The W	orst Test R	esults for l	Highest
	S G.Lev	A 4/ -ID:\	1	PMea	Limit	Margin	Dalasita
Frequency(MHz)	(dBm)	Ant(dBi)	Loss	(dBm)	(dBm)	(dBm)	Polarity
1430.29	-34.19	8.17	9.34	-35.36	-13.00	-22.36	Н
2145.41	-34.85	9.53	10.42	-35.74	-13.00	-22.74	Н
2860.82	-32.26	11.27	11.12	-32.11	-13.00	-19.11	Н
1430.29	-35.79	8.17	9.34	-36.96	-13.00	-23.96	V
2145.41	-34.92	9.53	10.42	-35.81	-13.00	-22.81	V
2860.82	-32.12	11.27	11.12	-31.97	-13.00	-18.97	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



BAND IZ							
LTE Band 12 /	3MHz / QP	SK / RB Siz	ze 1 Offse	t 0/ The W	orst Test Re	esults for I	Lowest
	S G.Lev	A (/ -ID:)	1	PMea	Limit	Margin	Dalawita
Frequency(MHz)	(dBm)	Ant(dBi)	Loss	(dBm)	(dBm)	(dBm)	Polarity
1400.84	-34.43	8.17	9.34	-35.60	-13.00	-22.60	Н
2101.19	-34.53	9.53	10.42	-35.42	-13.00	-22.42	Н
2801.70	-32.58	11.27	11.12	-32.43	-13.00	-19.43	Н
1400.84	-35.51	8.17	9.34	-36.68	-13.00	-23.68	V
2101.19	-34.70	9.53	10.42	-35.59	-13.00	-22.59	V
2801.70	-32.36	11.27	11.12	-32.21	-13.00	-19.21	V
LTE Band 12 /	3MHz / QP	SK / RB Si	ze 1 Offse	t 0/ The W	orst Test R	esults for	Middle
- 441.	S G.Lev	A . ((ID')		PMea	Limit	Margin	D. L. H
Frequency(MHz)	(dBm)	Ant(dBi)	Loss	(dBm)	(dBm)	(dBm)	Polarity
1414.65	-34.88	8.17	9.34	-36.05	-13.00	-23.05	Н
2122.09	-34.18	9.53	10.42	-35.07	-13.00	-22.07	Н
2829.62	-32.46	11.27	11.12	-32.31	-13.00	-19.31	Н
1414.65	-34.89	8.17	9.34	-36.06	-13.00	-23.06	V
2122.09	-35.25	9.53	10.42	-36.14	-13.00	-23.14	V
2829.62	-32.34	11.27	11.12	-32.19	-13.00	-19.19	V
LTE Band 12 / 3	3MHz / QP	SK / RB Siz	e 1 Offset	t 0/ The W	orst Test Re	sults for h	lighest
	S G.Lev	۸ ۱/ حاD: ۱	1	PMea	Limit	Margin	Delevity
Frequency(MHz)	(dBm)	Ant(dBi)	Loss	(dBm)	(dBm)	(dBm)	Polarity
1428.50	-34.06	8.17	9.34	-35.23	-13.00	-22.23	Н
2143.49	-35.36	9.53	10.42	-36.25	-13.00	-23.25	Н
2857.79	-33.16	11.27	11.12	-33.01	-13.00	-20.01	Н
1428.50	-35.88	8.17	9.34	-37.05	-13.00	-24.05	V
2143.49	-34.56	9.53	10.42	-35.45	-13.00	-22.45	V
2857.79	-31.81	11.27	11.12	-31.66	-13.00	-18.66	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



Frequency(MHz) S G. (dB		Ant(dBi)	Loss	PMea	Limit	Morain	
(dB		│ Ant(dBi) │ Loss ├─		LIIIII	Margin	Polarity	
4.400.00	.95		LU35	(dBm)	(dBm)	(dBm)	Polarity
1402.98 -33		8.17	9.34	-35.12	-13.00	-22.12	Н
2104.24 -35	.47	9.53	10.42	-36.36	-13.00	-23.36	Н
2805.94 -32	.60	11.27	11.12	-32.45	-13.00	-19.45	Н
1402.98 -35	.06	8.17	9.34	-36.23	-13.00	-23.23	V
2104.24 -33	.98	9.53	10.42	-34.87	-13.00	-21.87	V
2805.94 -32	.15	11.27	11.12	-32.00	-13.00	-19.00	V
LTE Band 12 / 5MHz	/ QP	SK / RB Si	ze 1 Offse	t 0/ The W	orst Test R	esults for	Middle
Fraguency (MHz)	Lev	۸ nt/dDi)	1	PMea	Limit	Margin	Dolority
Frequency(MHz) (dB	m)	Ant(dBi)	Loss	(dBm)	(dBm)	(dBm)	Polarity
1414.87 -34	.17	8.17	9.34	-35.34	-13.00	-22.34	Н
2122.03 -34	.35	9.53	10.42	-35.24	-13.00	-22.24	Н
2829.55 -32	46	11.27	11.12	-32.31	-13.00	-19.31	Н
1414.87 -34	96	8.17	9.34	-36.13	-13.00	-23.13	V
2122.03 -33.	.78	9.53	10.42	-34.67	-13.00	-21.67	V
2829.55 -32	.66	11.27	11.12	-32.51	-13.00	-19.51	V
LTE Band 12 / 5MHz	/ QP	SK / RB Siz	ze 1 Offset	0/ The W	orst Test Re	sults for F	lighest
S G.	Lev	۸ mt/dD:\	Loss	PMea	Limit	Margin	Dolority
Frequency(MHz) (dB	m)	Ant(dBi)	LUSS	(dBm)	(dBm)	(dBm)	Polarity
1426.91 -34.	.73	8.17	9.34	-35.90	-13.00	-22.90	Н
2140.21 -34	.33	9.53	10.42	-35.22	-13.00	-22.22	Н
2853.90 -32	.69	11.27	11.12	-32.54	-13.00	-19.54	Н
1426.91 -35	.28	8.17	9.34	-36.45	-13.00	-23.45	V
2140.21 -34	.00	9.53	10.42	-34.89	-13.00	-21.89	V
2853.90 -33	13	11.27	11.12	-32.98	-13.00	-19.98	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



LTE Band 12 /	10MHz / QI	PSK / RB Si	ize 1 Offse	et 0/ The W	orst Test R	esults for l	_owest
F (MIL)	S G.Lev	A . (/ ID:)		PMea	Limit	Margin	D. L. Y
Frequency(MHz)	(dBm)	Ant(dBi)	Loss	(dBm)	(dBm)	(dBm)	Polarity
1407.76	-34.41	8.17	9.34	-35.58	-13.00	-22.58	Н
2111.70	-34.99	9.53	10.42	-35.88	-13.00	-22.88	Н
2815.96	-32.70	11.27	11.12	-32.55	-13.00	-19.55	Н
1407.76	-35.91	8.17	9.34	-37.08	-13.00	-24.08	V
2111.70	-34.68	9.53	10.42	-35.57	-13.00	-22.57	V
2815.96	-32.48	11.27	11.12	-32.33	-13.00	-19.33	V
LTE Band 12 /	10MHz / Q	PSK / RB S	ize 1 Offse	et 0/ The W	orst Test R	esults for	Middle
Fragues ov (MIII-)	S G.Lev	۸ - مد(ما D:)	Loss	PMea	Limit	Margin	Dolority
Frequency(MHz)	(dBm)	Ant(dBi)		(dBm)	(dBm)	(dBm)	Polarity
1414.51	-33.99	8.17	9.34	-35.16	-13.00	-22.16	Н
2122.13	-34.58	9.53	10.42	-35.47	-13.00	-22.47	Н
2829.80	-32.63	11.27	11.12	-32.48	-13.00	-19.48	Н
1414.51	-34.79	8.17	9.34	-35.96	-13.00	-22.96	V
2122.13	-34.34	9.53	10.42	-35.23	-13.00	-22.23	V
2829.80	-32.50	11.27	11.12	-32.35	-13.00	-19.35	V
LTE Band 12 / 1	IOMHz/QF	PSK / RB Si	ze 1 Offse	t 0/ The W	orst Test Re	esults for H	lighest
Frequency(MHz)	S G.Lev	۸ nt/dDi\	Loop	PMea	Limit	Margin	Dolority
Frequency(MHZ)	(dBm)	Ant(dBi)	Loss	(dBm)	(dBm)	(dBm)	Polarity
1421.80	-34.64	8.17	9.34	-35.81	-13.00	-22.81	Н
2132.59	-34.66	9.53	10.42	-35.55	-13.00	-22.55	Н
2843.62	-32.26	11.27	11.12	-32.11	-13.00	-19.11	Н
1421.80	-35.80	8.17	9.34	-36.97	-13.00	-23.97	V
2132.59	-34.78	9.53	10.42	-35.67	-13.00	-22.67	V
2843.62	-33.15	11.27	11.12	-33.00	-13.00	-20.00	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



LTE Band 13 /	5MHz / QP	SK / RB Si	ze 1 Offse	t 0/ The Wo	orst Test Re	sults for L	owest
Francisco (NALL)	S G.Lev	A := 4(-UD :)	1	PMea	Limit	Margin	Del- ::'t
Frequency(MHz)	(dBm)	Ant(dBi)	Loss	(dBm)	(dBm)	(dBm)	Polarity
1559.16	-34.73	8.17	9.34	-35.90	-13.00	-22.90	Н
2338.15	-35.02	9.53	10.42	-35.91	-13.00	-22.91	Н
3117.93	-33.18	11.27	11.12	-33.03	-13.00	-20.03	Н
1559.16	-34.85	8.17	9.34	-36.02	-13.00	-23.02	V
2338.15	-34.48	9.53	10.42	-35.37	-13.00	-22.37	V
3117.93	-31.95	11.27	11.12	-31.80	-13.00	-18.80	V
LTE Band 13 /	5MHz / QF	PSK / RB Si	ze 1 Offse	t 0/ The W	orst Test Re	sults for N	/liddle
	S G.Lev	A 4 (-ID :)	1	PMea	Limit	Margin	Dalasitus
Frequency(MHz)	(dBm)	Ant(dBi)	Loss	(dBm)	(dBm)	(dBm)	Polarity
1564.02	-34.26	8.17	9.34	-35.43	-13.00	-22.43	Н
2346.04	-34.91	9.53	10.42	-35.80	-13.00	-22.80	Н
3128.01	-32.68	11.27	11.12	-32.53	-13.00	-19.53	Н
1564.02	-34.99	8.17	9.34	-36.16	-13.00	-23.16	V
2346.04	-34.00	9.53	10.42	-34.89	-13.00	-21.89	V
3128.01	-31.97	11.27	11.12	-31.82	-13.00	-18.82	V
LTE Band 13 /	5MHz / QP	SK / RB Siz	ze 1 Offset	0/ The Wo	orst Test Re	sults for H	ighest
Fragues ov/MII=)	S G.Lev	۸ صه(ما D :)	Loop	PMea	Limit	Margin	Dolority
Frequency(MHz)	(dBm)	Ant(dBi)	Loss	(dBm)	(dBm)	(dBm)	Polarity
1568.98	-34.03	8.17	9.34	-35.20	-13.00	-22.20	Н
2353.19	-35.47	9.53	10.42	-36.36	-13.00	-23.36	Н
3138.38	-33.64	11.27	11.12	-33.49	-13.00	-20.49	Н
1568.98	-36.01	8.17	9.34	-37.18	-13.00	-24.18	V
2353.19	-35.03	9.53	10.42	-35.92	-13.00	-22.92	V
3138.38	-33.14	11.27	11.12	-32.99	-13.00	-19.99	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



LTE Band 13 / 10MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle									
	S G.Lev	۸ - ۱ (ما D: ۱	Loop	PMea	Limit	Margin	Dolority		
Frequency(MHz)	(dBm)	Ant(dBi)	Loss	(dBm)	(dBm)	(dBm)	Polarity		
1564.07	-33.83	8.17	9.34	-35.00	-13.00	-22.00	Н		
2346.13	-34.17	9.53	10.42	-35.06	-13.00	-22.06	Н		
3128.10	-32.87	11.27	11.12	-32.72	-13.00	-19.72	Н		
1564.07	-35.32	8.17	9.34	-36.49	-13.00	-23.49	V		
2346.13	-34.27	9.53	10.42	-35.16	-13.00	-22.16	V		
3128.10	-32.35	11.27	11.12	-32.20	-13.00	-19.20	V		

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.





BAND 17									
LTE Band 17 / 5MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest									
	S G.Lev	۸ ۱/ حاD: ۱	1	PMea	Limit	Margin	Delevite		
Frequency(MHz)	(dBm)	Ant(dBi)	Loss	(dBm)	(dBm)	(dBm)	Polarity		
1413.40	-34.31	12.66	12.54	<mark>-34.19</mark>	-25.00	-9.19	Н		
2119.38	-35.37	11.46	12.57	-36.48	-25.00	-11.48	Н		
2826.72	-33.25	12.79	21.23	-41.69	-25.00	-16.69	Н		
1413.40	-35.50	12.66	12.54	-35.38	-25.00	-10.38	V		
2119.38	-35.07	11.46	12.57	-36.18	-25.00	-11.18	V		
2826.72	-32.93	12.79	21.23	-41.37	-25.00	-16.37	V		
LTE Band 17 /	5MHz / QP	SK / RB Si	ze 1 Offse	t 0/ The W	orst Test R	esults for	Middle		
- (1411)	S G.Lev	۸ ۱/ حاD: ۱		PMea	Limit	Margin	Delevite		
Frequency(MHz)	(dBm)	Ant(dBi)	Loss	(dBm)	(dBm)	, ,	Polarity		
1420.18	-33.82	12.72	12.55	-33.65	-25.00	-8.65	Н		
2129.87	-34.63	11.46	12.57	-35.74	-25.00	-10.74	Н		
2839.82	-33.46	12.09	21.25	-42.62	-25.00	-17.62	Н		
1420.18	-35.23	12.80	12.55	-34.98	-25.00	-9.98	V		
2129.87	-34.50	13.10	12.57	-33.97	-25.00	-8.97	V		
2839.82	-32.78	12.33	21.25	-41.70	-25.00	-16.70	V		
LTE Band 17 / 5	MHz/QP	SK / RB Siz	e 1 Offset	0/ The W	orst Test Re	sults for l	Highest		
Fragues (MIII)	S G.Lev	۸ mt/dD:\	Loop	PMea	Limit	Margin	Doloritu		
Frequency(MHz)	(dBm)	Ant(dBi)	Loss	(dBm)	(dBm)	(dBm)	Polarity		
1427.28	-33.87	12.76	12.57	<mark>-33.68</mark>	-25.00	-8.68	Н		
2140.43	-35.20	11.45	12.58	-36.33	-25.00	-11.33	Н		
2854.63	-32.26	12.28	21.27	-41.25	-25.00	-16.25	Н		
1427.28	-35.03	12.76	12.57	-34.84	-25.00	-9.84	V		
2140.43	-35.15	11.45	12.58	-36.28	-25.00	-11.28	V		
2854.63	-32.08	12.28	21.27	-41.07	-25.00	-16.07	V		

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



BAND 17							
LTE Band 17 / 1	0MHz / QF	SK/RB Si	ze 1 Offse	et 0/ The W	orst Test R	esults for	Lowest
Гла с с. с	S G.Lev	۸ ۱/ حاD: ۱	1	PMea	Limit	Margin	Delevity
Frequency(MHz)	(dBm)	Ant(dBi)	Loss	(dBm)	(dBm)	(dBm)	Polarity
1418.37	-34.10	12.66	12.54	-33.98	-25.00	-8.98	Н
2127.85	-35.31	11.46	12.57	-36.42	-25.00	-11.42	Н
2836.22	-32.51	12.79	21.23	-40.95	-25.00	-15.95	Н
1418.37	-35.78	12.66	12.54	-35.66	-25.00	-10.66	V
2127.85	-34.63	11.46	12.57	-35.74	-25.00	-10.74	V
2836.22	-32.01	12.79	21.23	-40.45	-25.00	-15.45	V
LTE Band 17 / 1	IOMHz / QF	PSK / RB S	ize 1 Offs	et 0/ The V	Vorst Test F	Results for	Middle
(MIL)	S G.Lev	۸ ۱/ حاD: ۱	Loss	PMea	Limit	Margin	Delevity
Frequency(MHz)	(dBm)	Ant(dBi)	L055	(dBm)	(dBm)	(dBm)	Polarity
1419.89	-34.43	12.72	12.55	-34.26	-25.00	-9.26	Н
2129.94	-34.72	11.46	12.57	-35.83	-25.00	-10.83	Н
2839.83	-33.57	12.09	21.25	-42.73	-25.00	-17.73	Н
1419.89	-34.77	12.80	12.55	-34.52	-25.00	-9.52	V
2129.94	-34.63	13.10	12.57	-34.10	-25.00	-9.10	V
2839.83	-33.19	12.33	21.25	-42.11	-25.00	-17.11	V
LTE Band 17 / 1	0MHz / QP	SK / RB Si	ze 1 Offse	t 0/ The W	orst Test R	esults for	Highest
Fragues av (MIII-)	S G.Lev	۸ mt/dD:\	Loop	PMea	Limit	Margin	Dolority
Frequency(MHz)	(dBm)	Ant(dBi)	Loss	(dBm)	(dBm)	(dBm)	Polarity
1422.35	-33.50	12.76	12.57	<mark>-33.31</mark>	-25.00	-8.31	Н
2133.20	-35.14	11.45	12.58	-36.27	-25.00	-11.27	Н
2844.02	-33.15	12.28	21.27	-42.14	-25.00	-17.14	Н
1422.35	-35.39	12.76	12.57	-35.20	-25.00	-10.20	V
2133.20	-34.24	11.45	12.58	-35.37	-25.00	-10.37	V
2844.02	-31.73	12.28	21.27	-40.72	-25.00	-15.72	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



LTE Band 25 / 1	.4MHz / QF	PSK / RB S	ize 1 Offs	et 0/ The V	Vorst Test R	Results for	Lowest
	S G.Lev			PMea	Limit	Margin	
Frequency(MHz)	(dBm)	Ant(dBi)	Loss	(dBm)	(dBm)	(dBm)	Polarity
3701.31	-34.84	12.60	12.93	-35.17	-13.00	-22.17	Н
5552.16	-34.01	13.10	17.11	-38.02	-13.00	-25.02	Н
7402.60	-32.64	11.50	22.20	-43.34	-13.00	-30.34	Н
3701.31	-34.60	12.60	12.93	-34.93	-13.00	-21.93	V
5552.16	-34.14	13.10	17.11	-38.15	-13.00	-25.15	V
7402.60	-32.10	11.50	22.20	-42.80	-13.00	-29.80	V
LTE Band 25 / 1	.4MHz / QI	PSK / RB S	ize 1 Offs	et 0/ The V	Vorst Test F	Results for	Middle
- (141)	S G.Lev	۸ ۱/ حاD: ۱	Logo	PMea	Limit	Margin	Delevite.
Frequency(MHz)	(dBm)	Ant(dBi)	Loss	(dBm)	(dBm)	(dBm)	Polarity
3764.94	-33.86	12.60	12.93	-34.19	-13.00	-21.19	Н
5646.80	-34.87	13.10	17.11	-38.88	-13.00	-25.88	Н
7530.06	-32.39	11.50	22.20	-43.09	-13.00	-30.09	Н
3764.94	-34.66	12.60	12.93	-34.99	-13.00	-21.99	V
5646.80	-34.47	13.10	17.11	-38.48	-13.00	-25.48	V
7530.06	-33.09	11.50	22.20	-43.79	-13.00	-30.79	V
LTE Band 25 / 1	.4MHz / QF	PSK / RB Si	ze 1 Offse	et 0/ The W	orst Test R	esults for	Highest
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3828.38	-34.65	12.60	12.93	-34.98	-13.00	-21.98	Н
5727.74	-35.04	13.10	17.11	-39.05	-13.00	-26.05	Н
7657.04	-32.32	11.50	22.20	-43.02	-13.00	-30.02	Н
3828.38	-35.13	12.60	12.93	-35.46	-13.00	-22.46	V
5727.74	-35.03	13.10	17.11	-39.04	-13.00	-26.04	V
7657.04	-32.11	11.50	22.20	-42.81	-13.00	-29.81	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

DAND ZJ							
LTE Band 25 /	3MHz / QP	SK / RB Siz	ze 1 Offse	t 0/ The W	orst Test Re	esults for I	Lowest
Frequency(MHz)	S G.Lev	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
r requericy(ivii iz)	(dBm)	Anti(ubi)	LUSS	(dBm)	(dBm)	(dBm)	Folanty
3703.15	-34.43	12.60	12.93	-34.76	-13.00	-21.76	Н
5554.52	-35.41	13.10	17.11	-39.42	-13.00	-26.42	Н
7406.02	-32.64	11.50	22.20	-43.34	-13.00	-30.34	Н
3703.15	-34.77	12.60	12.93	-35.10	-13.00	-22.10	V
5554.52	-34.50	13.10	17.11	-38.51	-13.00	-25.51	V
7406.02	-32.27	11.50	22.20	-42.97	-13.00	-29.97	V
LTE Band 25 /	3MHz / QP	SK / RB Si	ze 1 Offse	t 0/ The W	orst Test R	esults for	Middle
Frequency(MHz)	S G.Lev	۸ ۱/ حاD: ۱	Lana	PMea Limit	Margin	5.1.7	
	(dBm)	Ant(dBi)	Loss	(dBm)	(dBm)	(dBm)	Polarity
3764.90	-33.85	12.60	12.93	-34.18	-13.00	-21.18	Н
5647.27	-34.42	13.10	17.11	-38.43	-13.00	-25.43	Н
7530.12	-33.39	11.50	22.20	-44.09	-13.00	-31.09	Н
3764.90	-34.96	12.60	12.93	-35.29	-13.00	-22.29	V
5647.27	-34.96	13.10	17.11	-38.97	-13.00	-25.97	V
7530.12	-33.06	11.50	22.20	-43.76	-13.00	-30.76	V
LTE Band 25 /	3MHz / QP	SK / RB Siz	ze 1 Offse	t 0/ The W	orst Test Re	sults for h	lighest
["- "- " /\All - \	S G.Lev	۸ ۱/ حاD: ۱	Lana	PMea	Limit	Margin	Delevity
Frequency(MHz)	(dBm)	Ant(dBi)	Loss	(dBm)	(dBm)	(dBm)	Polarity
3827.21	-34.93	12.60	12.93	-35.26	-13.00	-22.26	Н
5740.07	-34.12	13.10	17.11	-38.13	-13.00	-25.13	Н
7654.23	-32.18	11.50	22.20	-42.88	-13.00	-29.88	Н
3827.21	-34.61	12.60	12.93	-34.94	-13.00	-21.94	V
5740.07	-34.49	13.10	17.11	-38.50	-13.00	-25.50	V
7654.23	-32.57	11.50	22.20	-43.27	-13.00	-30.27	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



LTE Band 25 / 5MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest Frequency(MHz) S G.Lev (dBm) Ant(dBi) Loss PMea (dBm) Limit (dBm) Margin (dBm) Polar (dBm) 3705.12 -33.92 12.60 12.93 -34.25 -13.00 -21.25 H 5557.21 -34.31 13.10 17.11 -38.32 -13.00 -25.32 H 7410.24 -33.61 11.50 22.20 -44.31 -13.00 -31.31 H 3705.12 -34.94 12.60 12.93 -35.27 -13.00 -22.27 V 5557.21 -34.75 13.10 17.11 -38.76 -13.00 -25.76 V 7410.24 -33.12 11.50 22.20 -43.82 -13.00 -30.82 V LTE Band 25 / 5MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle Margin (dBm) Polar (dBm) (dBm) Holar (dBm) Polar (dBm) -22.06 Holar (dBm) -22.06 Holar (dBm) -22.06 Holar (dBm) -34.73 12.60 12.93 <th>arity</th>	arity
(dBm) (dBm	l l l
5557.21 -34.31 13.10 17.11 -38.32 -13.00 -25.32 H 7410.24 -33.61 11.50 22.20 -44.31 -13.00 -31.31 H 3705.12 -34.94 12.60 12.93 -35.27 -13.00 -22.27 V 5557.21 -34.75 13.10 17.11 -38.76 -13.00 -25.76 V 7410.24 -33.12 11.50 22.20 -43.82 -13.00 -30.82 V LTE Band 25 / 5MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle Frequency(MHz) S G.Lev (dBm) Ant(dBi) Loss PMea Limit Margin (dBm) Polation 3765.24 -34.73 12.60 12.93 -35.06 -13.00 -22.06 H 5647.10 -34.72 13.10 17.11 -38.73 -13.00 -25.73 H 7530.19 -33.20 11.50 22.20 -43.90 -13.00 -30.90 H 3765.24 -3	l ! '
7410.24 -33.61 11.50 22.20 -44.31 -13.00 -31.31 H 3705.12 -34.94 12.60 12.93 -35.27 -13.00 -22.27 V 5557.21 -34.75 13.10 17.11 -38.76 -13.00 -25.76 V 7410.24 -33.12 11.50 22.20 -43.82 -13.00 -30.82 V LTE Band 25 / 5MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle Frequency(MHz) S G.Lev (dBm) Ant(dBi) Loss PMea Limit Margin (dBm) Polation 3765.24 -34.73 12.60 12.93 -35.06 -13.00 -22.06 H 5647.10 -34.72 13.10 17.11 -38.73 -13.00 -25.73 H 7530.19 -33.20 11.50 22.20 -43.90 -13.00 -30.90 H 3765.24 -35.72 12.60 12.93 -36.05 -13.00 -23.05 V	l '
3705.12 -34.94 12.60 12.93 -35.27 -13.00 -22.27 V 5557.21 -34.75 13.10 17.11 -38.76 -13.00 -25.76 V 7410.24 -33.12 11.50 22.20 -43.82 -13.00 -30.82 V Erequency(MHz) S G.Lev (dBm) Ant(dBi) Loss PMea Limit Margin (dBm) Margin (dBm) Polation 3765.24 -34.73 12.60 12.93 -35.06 -13.00 -22.06 H 5647.10 -34.72 13.10 17.11 -38.73 -13.00 -25.73 H 7530.19 -33.20 11.50 22.20 -43.90 -13.00 -30.90 H 3765.24 -35.72 12.60 12.93 -36.05 -13.00 -23.05 V	' '
5557.21 -34.75 13.10 17.11 -38.76 -13.00 -25.76 V 7410.24 -33.12 11.50 22.20 -43.82 -13.00 -30.82 V LTE Band 25 / 5MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle Frequency(MHz) S G.Lev (dBm) Ant(dBi) Loss PMea Limit Margin (dBm) Polation 3765.24 -34.73 12.60 12.93 -35.06 -13.00 -22.06 H 5647.10 -34.72 13.10 17.11 -38.73 -13.00 -25.73 H 7530.19 -33.20 11.50 22.20 -43.90 -13.00 -30.90 H 3765.24 -35.72 12.60 12.93 -36.05 -13.00 -23.05 V	' '
7410.24 -33.12 11.50 22.20 -43.82 -13.00 -30.82 V LTE Band 25 / 5MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle Frequency(MHz) S G.Lev (dBm) Ant(dBi) Loss PMea (dBm) Limit (dBm) Margin (dBm) Pola 3765.24 -34.73 12.60 12.93 -35.06 -13.00 -22.06 H 5647.10 -34.72 13.10 17.11 -38.73 -13.00 -25.73 H 7530.19 -33.20 11.50 22.20 -43.90 -13.00 -30.90 H 3765.24 -35.72 12.60 12.93 -36.05 -13.00 -23.05 V	′
LTE Band 25 / 5MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle Frequency(MHz) S G.Lev (dBm) Ant(dBi) Loss PMea (dBm) Limit (dBm) Margin (dBm) Polation 3765.24 -34.73 12.60 12.93 -35.06 -13.00 -22.06 H 5647.10 -34.72 13.10 17.11 -38.73 -13.00 -25.73 H 7530.19 -33.20 11.50 22.20 -43.90 -13.00 -30.90 H 3765.24 -35.72 12.60 12.93 -36.05 -13.00 -23.05 V	
Frequency(MHz) S G.Lev (dBm) Ant(dBi) Loss PMea (dBm) Limit (dBm) Margin (dBm) Polation 3765.24 -34.73 12.60 12.93 -35.06 -13.00 -22.06 H 5647.10 -34.72 13.10 17.11 -38.73 -13.00 -25.73 H 7530.19 -33.20 11.50 22.20 -43.90 -13.00 -30.90 H 3765.24 -35.72 12.60 12.93 -36.05 -13.00 -23.05 V	!
Frequency(MHz) (dBm) Ant(dBi) Loss (dBm) (dBm) Polarization 3765.24 -34.73 12.60 12.93 -35.06 -13.00 -22.06 H 5647.10 -34.72 13.10 17.11 -38.73 -13.00 -25.73 H 7530.19 -33.20 11.50 22.20 -43.90 -13.00 -30.90 H 3765.24 -35.72 12.60 12.93 -36.05 -13.00 -23.05 V	
(dBm) (dBm) (dBm) (dBm) (dBm) 3765.24 -34.73 12.60 12.93 -35.06 -13.00 -22.06 H 5647.10 -34.72 13.10 17.11 -38.73 -13.00 -25.73 H 7530.19 -33.20 11.50 22.20 -43.90 -13.00 -30.90 H 3765.24 -35.72 12.60 12.93 -36.05 -13.00 -23.05 V	:4
5647.10 -34.72 13.10 17.11 -38.73 -13.00 -25.73 H 7530.19 -33.20 11.50 22.20 -43.90 -13.00 -30.90 H 3765.24 -35.72 12.60 12.93 -36.05 -13.00 -23.05 V	irity
7530.19 -33.20 11.50 22.20 -43.90 -13.00 -30.90 H 3765.24 -35.72 12.60 12.93 -36.05 -13.00 -23.05 V	l
3765.24 -35.72 12.60 12.93 -36.05 -13.00 -23.05 V	1
	l
5647 10 -34 77 13 10 17 11 -38 78 -13 00 -25 78 V	,
0017.10	,
7530.19 -32.65 11.50 22.20 -43.35 -13.00 -30.35 V	,
LTE Band 25 / 5MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highes	t
S G.Lev PMea Limit Margin	wi4. ,
Frequency(MHz) (dBm) Ant(dBi) Loss (dBm) (dBm) (dBm) Pola	irity
3825.29 -34.17 12.60 12.93 -34.50 -13.00 -21.50 H	1
5737.46 -34.90 13.10 17.11 -38.91 -13.00 -25.91 H	1
7650.62 -32.98 11.50 22.20 -43.68 -13.00 -30.68 H	1
3825.29 -35.45 12.60 12.93 -35.78 -13.00 -22.78 V	,
5737.46 -35.13 13.10 17.11 -39.14 -13.00 -26.14 V	,
7650.62 -31.75 11.50 22.20 -42.45 -13.00 -29.45 V	,

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



_,							
LTE Band 25 / 1	IOMHz/QF	PSK / RB Si	ize 1 Offse	et 0/ The W	orst Test R	esults for	Lowest
- (MI)	S G.Lev	A ((15))		PMea	Limit	Margin	5
Frequency(MHz)	(dBm)	Ant(dBi)	Loss	(dBm)	(dBm)	(dBm)	Polarity
3710.10	-33.75	12.60	12.93	-34.08	-13.00	-21.08	Н
5565.23	-35.15	13.10	17.11	-39.16	-13.00	-26.16	Н
7419.77	-33.39	11.50	22.20	-44.09	-13.00	-31.09	Н
3710.10	-35.08	12.60	12.93	-35.41	-13.00	-22.41	V
5565.23	-35.05	13.10	17.11	-39.06	-13.00	-26.06	V
7419.77	-32.74	11.50	22.20	-43.44	-13.00	-30.44	V
LTE Band 25 /	10MHz / QI	PSK / RB S	ize 1 Offse	et 0/ The W	Vorst Test R	esults for	Middle
	S G.Lev	A := 4 (= 1 D ;)	1	PMea	Limit	Margin	Dalawit
Frequency(MHz)	(dBm)	Ant(dBi)	Loss	(dBm)	(dBm)	(dBm)	Polarity
3765.13	-34.27	12.60	12.93	-34.60	-13.00	-21.60	Н
5647.59	-34.93	13.10	17.11	-38.94	-13.00	-25.94	Н
7530.03	-32.73	11.50	22.20	-43.43	-13.00	-30.43	Н
3765.13	-35.28	12.60	12.93	-35.61	-13.00	-22.61	V
5647.59	-35.03	13.10	17.11	-39.04	-13.00	-26.04	V
7530.03	-32.64	11.50	22.20	-43.34	-13.00	-30.34	V
LTE Band 25 / 1	0MHz/QF	SK / RB Si	ze 1 Offse	t 0/ The W	orst Test R	esults for	Highest
Frequency(MHz)	S G.Lev	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
Frequency(MH2)	(dBm)	Ani(ubi)	LUSS	(dBm)	(dBm)	(dBm)	Polanty
3820.15	-34.75	12.60	12.93	<mark>-35.08</mark>	-13.00	-22.08	Н
5729.76	-34.60	13.10	17.11	-38.61	-13.00	-25.61	Н
7640.24	-32.77	11.50	22.20	-43.47	-13.00	-30.47	Н
3820.15	-35.65	12.60	12.93	-35.98	-13.00	-22.98	V
5729.76	-34.26	13.10	17.11	-38.27	-13.00	-25.27	V
7640.24	-32.16	11.50	22.20	-42.86	-13.00	-29.86	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



DAIND 23							
LTE Band 25 / 1	5MHz / QF	PSK / RB Si	ize 1 Offse	et 0/ The W	orst Test R	esults for	Lowest
(8.41.1.)	S G.Lev	A . (/ ID')		PMea	Limit	Margin	D. L. H
Frequency(MHz)	(dBm)	Ant(dBi)	Loss	(dBm)	(dBm)	(dBm)	Polarity
3715.11	-33.96	12.60	12.93	-34.29	-13.00	-21.29	Н
5572.24	-34.88	13.10	17.11	-38.89	-13.00	-25.89	Н
7430.51	-32.65	11.50	22.20	-43.35	-13.00	-30.35	Н
3715.11	-34.75	12.60	12.93	-35.08	-13.00	-22.08	V
5572.24	-33.75	13.10	17.11	-37.76	-13.00	-24.76	V
7430.51	-32.02	11.50	22.20	-42.72	-13.00	-29.72	V
LTE Band 25 /	15MHz / QI	PSK / RB S	ize 1 Offs	et 0/ The V	Vorst Test F	Results for	Middle
Fragues av (NALIE)	S G.Lev	A . (/ ID')	ID.)	PMea	Limit	Margin	Dalasita
Frequency(MHz)	(dBm)	Ant(dBi)	Loss	(dBm)	(dBm)	(dBm)	Polarity
3764.96	-34.84	12.60	12.93	<mark>-35.17</mark>	-13.00	-22.17	Н
5647.40	-34.10	13.10	17.11	-38.11	-13.00	-25.11	Н
7430.02	-32.65	11.50	22.20	-43.35	-13.00	-30.35	Н
3764.96	-35.60	12.60	12.93	-35.93	-13.00	-22.93	V
5647.40	-34.82	13.10	17.11	-38.83	-13.00	-25.83	V
7430.02	-31.95	11.50	22.20	-42.65	-13.00	-29.65	V
LTE Band 25 / 1	5MHz / QP	SK / RB Si	ze 1 Offse	t 0/ The W	orst Test R	esults for	Highest
	S G.Lev	۸ ۱/ حاD: ۱	Lana	PMea	Limit	Margin	Delevite
Frequency(MHz)	(dBm)	Ant(dBi)	Loss	(dBm)	(dBm)	(dBm)	Polarity
3815.69	-34.39	12.60	12.93	<mark>-34.72</mark>	-13.00	-21.72	Н
5722.24	-34.60	13.10	17.11	-38.61	-13.00	-25.61	Н
7630.47	-33.23	11.50	22.20	-43.93	-13.00	-30.93	Н
3815.69	-35.50	12.60	12.93	-35.83	-13.00	-22.83	V
5722.24	-35.08	13.10	17.11	-39.09	-13.00	-26.09	V
7630.47	-31.86	11.50	22.20	-42.56	-13.00	-29.56	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

LTE Band 25 / 2	0MHz / QF	PSK / RB Si	ze 1 Offse	et 0/ The W	orst Test R	esults for	Lowest
Frequency(MHz)	S G.Lev	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
1 requeries (Wir 12)	(dBm)	7 trit(abi)	2000	(dBm)	(dBm)	(dBm)	1 Gianty
3720.24	-33.56	12.60	12.93	<mark>-33.89</mark>	-13.00	-20.89	Н
5580.20	-34.82	13.10	17.11	-38.83	-13.00	-25.83	Н
7439.87	-32.26	11.50	22.20	-42.96	-13.00	-29.96	Н
3720.24	-35.64	12.60	12.93	-35.97	-13.00	-22.97	V
5580.20	-34.64	13.10	17.11	-38.65	-13.00	-25.65	V
7439.87	-32.67	11.50	22.20	-43.37	-13.00	-30.37	V
LTE Band 25 / 2	20MHz/QF	PSK / RB S	ize 1 Offs	et 0/ The V	Vorst Test F	Results for	Middle
Fraguency/MHz)	S G.Lev	۸ ۱ (ما ت :)	Loss	PMea	Limit	Margin	Delerite
Frequency(MHz)	(dBm)	Ant(dBi)	Loss	(dBm)	(dBm)	(dBm)	Polarity
3765.03	-34.73	12.60	12.93	-35.06	-13.00	-22.06	Н
5646.90	-34.33	13.10	17.11	-38.34	-13.00	-25.34	Н
7530.15	-33.33	11.50	22.20	-44.03	-13.00	-31.03	Н
3765.03	-35.26	12.60	12.93	-35.59	-13.00	-22.59	V
5646.90	-34.46	13.10	17.11	-38.47	-13.00	-25.47	V
7530.15	-31.88	11.50	22.20	-42.58	-13.00	-29.58	V
LTE Band 25 / 2	0MHz / QP	SK / RB Si	ze 1 Offse	t 0/ The W	orst Test R	esults for	Highest
Fragues av (MIII-)	S G.Lev	۸ صد/طD:\	Loop	PMea	Limit	Margin	Dolority
Frequency(MHz)	(dBm)	Ant(dBi)	Loss	(dBm)	(dBm)	(dBm)	Polarity
3810.47	-34.26	12.60	12.93	-34.59	-13.00	-21.59	Н
5715.47	-34.81	13.10	17.11	-38.82	-13.00	-25.82	Н
7619.92	-33.28	11.50	22.20	-43.98	-13.00	-30.98	Н
3810.47	-35.77	12.60	12.93	-36.10	-13.00	-23.10	V
5715.47	-34.52	13.10	17.11	-38.53	-13.00	-25.53	V
7619.92	-32.65	11.50	22.20	-43.35	-13.00	-30.35	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

DAND ZU							
LTE Band 26 / 1	.4MHz / QI	PSK / RB S	ize 1 Offs	et 0/ The V	Vorst Test F	Results for	Lowest
Frequency(MHz)	S G.Lev	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
r requeriey (Wir 12)	(dBm)	7 (III (GDI)	2033	(dBm)	(dBm)	(dBm)	lolarity
1629.04	-33.84	12.90	12.56	-33.50	-13.00	-20.50	Н
2444.42	-35.35	13.10	12.46	-34.71	-13.00	-21.71	Н
3258.55	-32.82	12.33	21.13	-41.62	-13.00	-28.62	Н
1629.04	-34.76	12.90	12.76	-34.62	-13.00	-21.62	V
2444.42	-34.61	13.10	16.32	-37.83	-13.00	-24.83	V
3258.55	-32.01	12.33	21.13	-40.81	-13.00	-27.81	V
LTE Band 26 / 1	.4MHz / Q	PSK / RB S	ize 1 Offs	et 0/ The V	Vorst Test I	Results fo	r Middle
Fraguanov/MHz)	S G.Lev	۸ ۱/ ماD:\	Loss -	PMea	Limit	Margin	Delevity
Frequency(MHz)	(dBm)	Ant(dBi)		(dBm)	(dBm)	(dBm)	Polarity
1663.18	-33.91	12.80	12.56	-33.67	-13.00	-20.67	Н
2494.15	-35.10	13.10	12.46	-34.46	-13.00	-21.46	Н
3326.11	-33.30	12.33	21.13	-42.10	-13.00	-29.10	Н
1663.18	-35.10	12.80	12.76	-35.06	-13.00	-22.06	V
2494.15	-34.15	13.10	16.32	-37.37	-13.00	-24.37	V
3326.11	-32.77	12.33	21.13	-41.57	-13.00	-28.57	V
LTE Band 26 / 1	.4MHz / QF	PSK / RB S	ize 1 Offse	et 0/ The V	orst Test R	Results for	Highest
Eroguopov/MHz)	S G.Lev	Ant/dDi)	Loop	PMea	Limit	Margin	Dolority
Frequency(MHz)	(dBm)	Ant(dBi)	Loss	(dBm)	(dBm)	(dBm)	Polarity
1696.34	-33.92	12.61	12.56	-33.87	-13.00	-20.87	Н
2544.88	-35.08	13.12	12.46	-34.42	-13.00	-21.42	Н
3392.93	-33.45	12.32	21.13	-42.26	-13.00	-29.26	Н
1696.34	-34.91	12.61	12.76	-35.06	-13.00	-22.06	V
2544.88	-33.75	13.12	16.32	-36.95	-13.00	-23.95	V
3392.93	-32.78	12.32	21.13	-41.59	-13.00	-28.59	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

DAND 20							
LTE Band 26 /	3MHz/QP	SK / RB Si	ze 1 Offse	t 0/ The W	orst Test Re	esults for I	Lowest
	S G.Lev	A := 4 (= 1D ;)	1	PMea	Limit	Margin	Dalasitus
Frequency(MHz)	(dBm)	Ant(dBi)	Loss	(dBm)	(dBm)	(dBm)	Polarity
1631.08	-33.88	12.90	12.56	-33.54	-13.00	-20.54	Н
2446.26	-35.46	13.10	12.46	-34.82	-13.00	-21.82	Н
3262.85	-32.91	12.33	21.13	-41.71	-13.00	-28.71	Н
1631.08	-34.60	12.90	12.76	-34.46	-13.00	-21.46	V
2446.26	-33.97	13.10	16.32	-37.19	-13.00	-24.19	V
3262.85	-32.57	12.33	21.13	-41.37	-13.00	-28.37	V
LTE Band 26 /	3MHz / QF	SK / RB Si	ze 1 Offse	t 0/ The W	orst Test R	esults for	Middle
	S G.Lev	A 4(-ID:)	1	PMea	Limit	Margin	Delevity
Frequency(MHz)	(dBm)	Ant(dBi)	Loss	(dBm)	(dBm)	(dBm)	Polarity
1663.03	-34.04	12.80	12.56	-33.80	-13.00	-20.80	Н
2494.22	-35.15	13.10	12.46	-34.51	-13.00	-21.51	Н
3325.86	-33.15	12.33	21.13	-41.95	-13.00	-28.95	Н
1663.03	-35.72	12.80	12.76	-35.68	-13.00	-22.68	V
2494.22	-34.30	13.10	16.32	-37.52	-13.00	-24.52	V
3325.86	-32.82	12.33	21.13	-41.62	-13.00	-28.62	V
LTE Band 26 /	3MHz / QP	SK / RB Siz	ze 1 Offse	t 0/ The W	orst Test Re	sults for I	Highest
	S G.Lev	۸ ۱/ حاD: \	Lana	PMea	Limit	Margin	Delevity
Frequency(MHz)	(dBm)	Ant(dBi)	Loss	(dBm)	(dBm)	(dBm)	Polarity
1695.75	-33.52	12.61	12.56	-33.47	-13.00	-20.47	Н
2542.49	-34.15	13.12	12.46	-33.49	-13.00	-20.49	Н
3390.14	-32.33	12.32	21.13	-41.14	-13.00	-28.14	Н
1695.75	-35.49	12.61	12.76	-35.64	-13.00	-22.64	V
2542.49	-34.35	13.12	16.32	-37.55	-13.00	-24.55	V
3390.14	-32.53	12.32	21.13	-41.34	-13.00	-28.34	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



LTE Donal OC //	FMILL / OD	CV / DD C:	1 08	4 0/ The 14/	avet Test D		Lawaat
LTE Band 26 /		2K / KB 31	ze 1 Offse	1	1	esuits for	Lowest
Frequency(MHz)	S G.Lev	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
1 requeriey(wii iz)	(dBm)	7 (ITE(GDI)	L033	(dBm)	(dBm)	(dBm)	1 Glarity
1633.11	-33.62	12.90	12.56	<mark>-33.28</mark>	-13.00	-20.28	Н
2499.27	-35.09	13.10	12.46	-34.45	-13.00	-21.45	Н
3266.72	-32.20	12.33	21.13	-41.00	-13.00	-28.00	Н
1633.11	-34.66	12.90	12.76	-34.52	-13.00	-21.52	V
2499.27	-34.43	13.10	16.32	-37.65	-13.00	-24.65	V
3266.72	-32.51	12.33	21.13	-41.31	-13.00	-28.31	V
LTE Band 26 /	5MHz / QP	SK / RB Si	ze 1 Offse	t 0/ The W	orst Test R	esults for	Middle
(8.41.1.)	S G.Lev	4 ((171)		PMea	Limit	Margin	D. L. Y
Frequency(MHz)	(dBm)	Ant(dBi)	Loss	(dBm)	(dBm)	(dBm)	Polarity
1662.83	-33.51	12.80	12.56	-33.27	-13.00	-20.27	Н
2493.96	-34.28	13.10	12.46	-33.64	-13.00	-20.64	Н
3326.13	-33.38	12.33	21.13	-42.18	-13.00	-29.18	Н
1662.83	-35.74	12.80	12.76	-35.70	-13.00	-22.70	V
2493.96	-34.37	13.10	16.32	-37.59	-13.00	-24.59	V
3326.13	-33.02	12.33	21.13	-41.82	-13.00	-28.82	V
LTE Band 26 / 5	MHz / QP	SK / RB Siz	e 1 Offse	t 0/ The W	orst Test Re	esults for	Highest
(A.1.1.)	S G.Lev	A . (/ ID')		PMea	Limit	Margin	D. L. Y
Frequency(MHz)	(dBm)	Ant(dBi)	Loss	(dBm)	(dBm)	(dBm)	Polarity
1693.67	-33.95	12.61	12.56	-33.90	-13.00	-20.90	Н
2539.20	-34.16	13.12	12.46	-33.50	-13.00	-20.50	Н
3386.05	-33.65	12.32	21.13	-42.46	-13.00	-29.46	Н
1693.67	-35.39	12.61	12.76	-35.54	-13.00	-22.54	V
2539.20	-34.00	13.12	16.32	-37.20	-13.00	-24.20	V
3386.05	-31.89	12.32	21.13	-40.70	-13.00	-27.70	V
	•						

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

Polarity H H V
H H
H H
H H
Н
V
V
V
ddle
) a la ritu
olarity
Н
Н
Н
V
V
V
hest
) a la ritu
olarity
Н
Н
Н
V
V
V
•

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



DAND 20							
LTE Band 26 / 1	I5MHz/QF	PSK / RB Si	ize 1 Offse	et 0/ The W	orst Test R	esults for	Lowest
Гио ж о ю о / М. I)	S G.Lev	۸ :مد(حاD:\	Lana	PMea	Limit	Margin	Dalaritu
Frequency(MHz)	(dBm)	Ant(dBi)	Loss	(dBm)	(dBm)	(dBm)	Polarity
1645.29	-34.08	12.90	12.56	-33.74	-13.00	-20.74	Н
2467.63	-34.31	13.10	12.46	-33.67	-13.00	-20.67	Н
3290.94	-33.57	12.33	21.13	-42.37	-13.00	-29.37	Н
1645.29	-35.31	12.90	12.76	-35.17	-13.00	-22.17	V
2467.63	-33.95	13.10	16.32	-37.17	-13.00	-24.17	V
3290.94	-31.87	12.33	21.13	-40.67	-13.00	-27.67	V
LTE Band 26 /	5MHz / QF	SK / RB Si	ze 1 Offse	t 0/ The W	orst Test R	esults for	Middle
	S G.Lev	A . (/ ID')		PMea	Limit	Margin	Dalasita
Frequency(MHz)	(dBm)	Ant(dBi)	Loss	(dBm)	(dBm)	(dBm)	Polarity
1662.79	-33.54	12.80	12.56	-33.30	-13.00	-20.30	Н
2493.97	-34.71	13.10	12.46	-34.07	-13.00	-21.07	Н
3326.07	-33.54	12.33	21.13	-42.34	-13.00	-29.34	Н
1662.79	-35.23	12.80	12.76	-35.19	-13.00	-22.19	V
2493.97	-34.01	13.10	16.32	-37.23	-13.00	-24.23	V
3326.07	-31.80	12.33	21.13	-40.60	-13.00	-27.60	V
LTE Band 26 /	5MHz / QP	SK / RB Siz	ze 1 Offse	t 0/ The W	orst Test Re	sults for H	lighest
	S G.Lev	۸ ۱/ حاD: /	Lana	PMea	Limit	Margin	
Frequency(MHz)	(dBm)	Ant(dBi)	Loss	(dBm)	(dBm)	(dBm)	Polarity
1683.61	-34.89	12.61	12.56	-34.84	-13.00	-21.84	Н
2524.35	-35.14	13.12	12.46	-34.48	-13.00	-21.48	Н
3366.56	-33.07	12.32	21.13	-41.88	-13.00	-28.88	Н
1683.61	-35.12	12.61	12.76	-35.27	-13.00	-22.27	V
2524.35	-35.14	13.12	16.32	-38.34	-13.00	-25.34	V
3366.56	-31.77	12.32	21.13	-40.58	-13.00	-27.58	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



DAND 41							
LTE Band41 /	5MHz/QF	SK / RB Si	ze 1 Offse	t 0/ The Wo	orst Test Re	esults for L	_owest
	S G.Lev	۸ ۱/ حاD: /	1	PMea	Limit	Margin	Delevity
Frequency(MHz)	(dBm)	Ant(dBi)	Loss	(dBm)	(dBm)	(dB)	Polarity
5305.28	-34.74	12.66	12.54	-34.62	-25.00	-9.62	Н
7957.55	-35.24	11.46	12.57	-36.35	-25.00	-11.35	Н
10610.32	-33.26	12.79	21.23	-41.70	-25.00	-16.70	Н
4996.85	-34.73	12.66	12.54	-34.61	-25.00	-9.61	V
7495.55	-35.06	11.46	12.57	-36.17	-25.00	-11.17	V
9994.13	-32.03	12.79	21.23	-40.47	-25.00	-15.47	V
LTE Band 41	/ 5MHz / QI	PSK / RB S	ize 1 Offse	t 0/ The W	orst Test R	esults for	Middle
	S G.Lev	۸ ۱/ -اا ت	1.000	PMea	Limit	Margin	Delevity
Frequency(MHz)	(dBm)	Ant(dBi)	Loss	(dBm)	(dBm)	(dB)	Polarity
5186.47	-34.61	12.72	12.55	-34.44	-25.00	-9.44	Н
7778.95	-34.28	11.46	12.57	-35.39	-25.00	-10.39	Н
10372.17	-32.72	12.09	21.25	-41.88	-25.00	-16.88	Н
5186.47	-34.62	12.80	12.55	-34.37	-25.00	-9.37	V
7778.95	-34.87	13.10	12.57	-34.34	-25.00	-9.34	V
10372.17	-32.70	12.33	21.25	-41.62	-25.00	-16.62	V
LTE Band41 /	5MHz/QP	SK / RB Si	ze 1 Offset	0/ The Wo	rst Test Re	sults for F	lighest
Fragues av/MII=)	S G.Lev	۸ صد(طD:)	Loop	PMea	Limit	Margin	D 1 11
Frequency(MHz)	(dBm)	Ant(dBi)	Loss	(dBm)	(dBm)	(dB)	Polarity
5115.02	-33.65	12.76	12.57	-33.46	-25.00	-8.46	Н
7672.07	-35.39	11.45	12.58	-36.52	-25.00	-11.52	Н
10230.07	-32.62	12.28	21.27	-41.61	-25.00	-16.61	Н
5115.02	-35.98	12.76	12.57	-35.79	-25.00	-10.79	V
7672.07	-34.74	11.45	12.58	-35.87	-25.00	-10.87	V
10230.07	-32.40	12.28	21.27	-41.39	-25.00	-16.39	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

DANU 41							
LTE Band 41 /	10MHz / Q	PSK / RB S	ize 1 Offse	et 0/ The W	orst Test R	esults for	Lowest
	S G.Lev	۸ ۱/ حاD: ۱	1	PMea	Limit	Margin	Delevit
Frequency(MHz)	(dBm)	Ant(dBi)	Loss	(dBm)	(dBm)	(dB)	Polarity
5002.29	-34.75	12.66	12.54	-34.63	-25.00	-9.63	Н
7503.36	-34.93	11.46	12.57	-36.04	-25.00	-11.04	Н
10004.15	-32.30	12.79	21.23	-40.74	-25.00	-15.74	Н
5002.29	-35.30	12.66	12.54	-35.18	-25.00	-10.18	V
7503.36	-35.09	11.46	12.57	-36.20	-25.00	-11.20	V
10004.15	-32.26	12.79	21.23	-40.70	-25.00	-15.70	V
LTE Band 41 /	10MHz / Q	PSK / RB S	Size 1 Offs	et 0/ The W	orst Test F	Results for	Middle
[S G.Lev	A . (/ ID')		PMea	Limit	Margin	Dalasita
Frequency(MHz)	(dBm)	Ant(dBi)	Loss	(dBm)	(dBm)	(dB)	Polarity
5186.66	-34.50	12.72	12.55	-34.33	-25.00	-9.33	Н
7779.60	-34.78	11.46	12.57	-35.89	-25.00	-10.89	Н
10371.34	-33.28	12.09	21.25	-42.44	-25.00	-17.44	Н
5186.66	-35.40	12.80	12.55	-35.15	-25.00	-10.15	V
7779.60	-34.15	13.10	12.57	-33.62	-25.00	-8.62	V
10371.34	-33.05	12.33	21.25	-41.97	-25.00	-16.97	V
LTE Band 41 /	10MHz / QI	PSK / RB S	ize 1 Offse	t 0/ The W	orst Test R	esults for	Highest
[S G.Lev	۸ ۱/ حاD: ۱	1	PMea	Limit	Margin	Delevit
Frequency(MHz)	(dBm)	Ant(dBi)	Loss	(dBm)	(dBm)	(dB)	Polarity
5370.34	-33.88	12.76	12.57	<mark>-33.69</mark>	-25.00	-8.69	Н
8055.87	-34.44	11.45	12.58	-35.57	-25.00	-10.57	Н
10740.12	-33.24	12.28	21.27	-42.23	-25.00	-17.23	Н
5370.34	-34.86	12.76	12.57	-34.67	-25.00	-9.67	V
8055.87	-35.07	11.45	12.58	-36.20	-25.00	-11.20	V
10740.12	-32.86	12.28	21.27	-41.85	-25.00	-16.85	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



DANU 41							
LTE Band 41 /	15MHz / Q	PSK/RBS	ize 1 Offse	et 0/ The W	orst Test R	esults for	Lowest
	S G.Lev	۸ ۱/ حاD: /	1	PMea	Limit	Margin	Delevit
Frequency(MHz)	(dBm)	Ant(dBi)	Loss	(dBm)	(dBm)	(dB)	Polarity
5124.79	-34.71	12.66	12.54	-34.59	-25.00	-9.59	Н
7687.45	-34.68	11.46	12.57	-35.79	-25.00	-10.79	Н
10250.68	-32.75	12.79	21.23	-41.19	-25.00	-16.19	Н
5124.79	-34.84	12.66	12.54	-34.72	-25.00	-9.72	V
7687.45	-35.24	11.46	12.57	-36.35	-25.00	-11.35	V
10250.68	-31.96	12.79	21.23	-40.40	-25.00	-15.40	V
LTE Band 41 /	15MHz / Q	PSK / RB S	Size 1 Offs	et 0/ The W	orst Test F	Results for	Middle
	S G.Lev			PMea	Limit	Margin	D. L. ''
Frequency(MHz)	(dBm)	Ant(dBi)	Loss	(dBm)	(dBm)	(dB)	Polarity
5185.90	-33.47	12.72	12.55	-33.30	-25.00	-8.30	Н
7779.07	-34.77	11.46	12.57	-35.88	-25.00	-10.88	Н
10372.28	-32.59	12.09	21.25	-41.75	-25.00	-16.75	Н
5185.90	-35.84	12.80	12.55	-35.59	-25.00	-10.59	V
7779.07	-33.98	13.10	12.57	-33.45	-25.00	-8.45	V
10372.28	-32.88	12.33	21.25	-41.80	-25.00	-16.80	V
LTE Band 41 /	15MHz / QI	PSK / RB S	ize 1 Offse	t 0/ The W	orst Test R	esults for	Highest
	S G.Lev	A := 4 (= ID :)	1	PMea	Limit	Margin	Dalasita
Frequency(MHz)	(dBm)	Ant(dBi)	Loss	(dBm)	(dBm)	(dB)	Polarity
5295.73	-34.15	12.76	12.57	-33.96	-25.00	-8.96	Н
7941.99	-34.49	11.45	12.58	-35.62	-25.00	-10.62	Н
10590.13	-32.46	12.28	21.27	-41.45	-25.00	-16.45	Н
5295.73	-35.54	12.76	12.57	-35.35	-25.00	-10.35	V
7941.99	-33.85	11.45	12.58	-34.98	-25.00	-9.98	V
10590.13	-33.06	12.28	21.27	-42.05	-25.00	-17.05	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



LTE Band 41 / 20MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest								
	S G.Lev	A := 4 (= ID :)	1	PMea	Limit	Margin	Dalarita	
Frequency(MHz)	(dBm)	Ant(dBi)	Loss	(dBm)	(dBm)	(dB)	Polarity	
5129.93	-33.98	12.66	12.54	-33.86	-25.00	-8.86	Н	
7695.22	-34.99	11.46	12.57	-36.10	-25.00	-11.10	Н	
10260.24	-33.04	12.79	21.23	-41.48	-25.00	-16.48	Н	
5129.93	-35.85	12.66	12.54	-35.73	-25.00	-10.73	V	
7695.22	-33.75	11.46	12.57	-34.86	-25.00	-9.86	V	
10260.24	-31.88	12.79	21.23	-40.32	-25.00	-15.32	V	
LTE Band 41 /	20MHz / Q	PSK/RBS	Size 1 Offs	et 0/ The W	orst Test F	Results for	Middle	
Frequency(MHz)	S G.Lev	Ant/dDi)	Logo	PMea	Limit	Margin	Dolority	
Frequency(wmz)	(dBm)	Ant(dBi)	Loss	(dBm)	(dBm)	(dB)	Polarity	
5185.96	-33.93	12.72	12.55	-33.76	-25.00	-8.76	Н	
7779.11	-35.38	11.46	12.57	-36.49	-25.00	-11.49	Н	
10372.00	-33.28	12.09	21.25	-42.44	-25.00	-17.44	Н	
5185.96	-35.63	12.80	12.55	-35.38	-25.00	-10.38	V	
7779.11	-34.69	13.10	12.57	-34.16	-25.00	-9.16	V	
10372.00	-31.75	12.33	21.25	-40.67	-25.00	-15.67	V	
LTE Band 41 /	20MHz / QI	PSK/RBS	ize 1 Offse	et 0/ The W	orst Test R	esults for	Highest	
Frequency(MHz)	S G.Lev	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity	
Frequency(MH2)	(dBm)	Ant(ubi)	L088	(dBm)	(dBm)	(dB)	Polarity	
5289.93	-33.93	12.76	12.57	-33.74	-25.00	-8.74	Н	
7935.34	-34.11	11.45	12.58	-35.24	-25.00	-10.24	Н	
10580.28	-32.53	12.28	21.27	-41.52	-25.00	-16.52	Н	
5289.93	-35.35	12.76	12.57	-35.16	-25.00	-10.16	V	
7935.34	-34.19	11.45	12.58	-35.32	-25.00	-10.32	V	
10580.28	-32.01	12.28	21.27	-41.00	-25.00	-16.00	V	

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



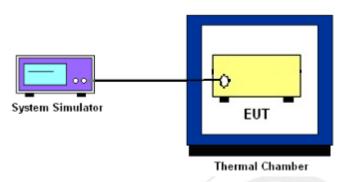
10. FREQUENCY STABILITY

10.1 DESCRIPTION OF FREQUENCY STABILITY MEASUREMENT

10.1.1 MEASUREMENT METHOD

The frequency stability shall be measured by variation of ambient temperature and variation of primary supply voltage to ensure that the fundamental emission stays within the authorized frequency block. The frequency stability of the transmitter shall be maintained within ±0.00025% (±2.5ppm) of the center frequency.

10.1.2 Test Setup



10.1.3 TEST PROCEDURES FOR TEMPERATURE VARIATION

- 1. The EUT was set up in the thermal chamber and connected with the system simulator.
- 2. With power OFF, the temperature was decreased to -30°C and the EUT was stabilized before testing. Power was applied and the maximum change in frequency was recorded within one minute.
- 3. With power OFF, the temperature was raised in 10°C step up to 50°C. The EUT was stabilized at each step for at least half an hour. Power was applied and the maximum frequency change was recorded within one minute.

10.1.4 TEST PROCEDURES FOR VOLTAGE VARIATION

- 1. The testing follows FCC KDB 971168 D01v01r03 Section 9.0.
- 2. The EUT was placed in a temperature chamber at 25±5° C and connected with the system simlator.
- 3. The power supply voltage to the EUT was varied from 85% to 115% of the nominal value measured at the input to the EUT.
- 4. The variation in frequency was measured for the worst case.



10.1.4 MEASUREMENT RESULT

LTE BAND 2

LTE Band 2 (QPSK) / 1880MHz / BW10M								
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result			
	(Volt)	(Hz)	(ppm)					
50		16.78	0.009					
40		26.19	0.014					
30		29.42	0.016	2.5ppm	PASS			
20	Normal Vol-	24.83	0.013					
10		13.13	0.007					
0	tage	24.67	0.013					
-10		35.33	0.019					
-20		17.89	0.010					
-30		12.60	0.007					
25	Maximum Voltage	34.84	0.019					
25	BEP	18.06	0.010					

	LTE Band 2 (QPSK) / 1880MHz / BW20M								
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result				
	(Volt)	(Hz)	(ppm)						
50		22.47	0.012						
40		26.24	0.014						
30		13.88	0.007	- 2.5ppm	PASS				
20	Nie was al Mai	13.84	0.007						
10	Normal Vol-	29.10	0.015						
0	tage	28.70	0.015						
-10		18.85	0.010						
-20		20.93	0.011						
-30		28.75	0.015						
25	Maximum	21.16	0.011						
	Voltage	21.10	0.011						
25	BEP	17.81	0.009						

Note: 1. Normal Voltage = 3.85V.; Battery End Point (BEP) = 3.5 V.; Maximum Voltage = 4.4 V



LTE Band 4 (QPSK) / 1733MHz / BW10M								
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result			
	(Volt)	(Hz)	(ppm)					
50		23.12	0.013					
40		16.08	0.009					
30		26.04	0.015	- - 2.5ppm	PASS			
20	Normal Val	27.50	0.016					
10	Normal Vol-	21.71	0.013					
0	tage	14.76	0.009					
-10		20.54	0.012					
-20		32.50	0.019					
-30		24.71	0.014					
25	Maximum Voltage	21.34	0.012					
25	BEP	27.08	0.016					

	LTE Band 4 (QPSK) / 1733MHz / BW20M								
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result				
	(Volt)	(Hz)	(ppm)						
50		31.67	0.018						
40		20.98	0.012						
30		23.32	0.013	2 5 2 2 2	PASS				
20	Normal Vol-	26.41	0.015						
10		33.86	0.020						
0	tage	26.33	0.015						
-10		28.45	0.016	2.5ppm					
-20		32.77	0.019						
-30		11.60	0.007						
25	Maximum Voltage	20.53	0.012						
25	BEP	25.80	0.015						

Note: 1. Normal Voltage = 3.85V.; Battery End Point (BEP) = 3.5 V.; Maximum Voltage = 4.4 V



	LTE Band 5 (QPSK) / 836.5MHz / BW5M								
Temperature	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result				
(°C)	(Volt)	(Hz)	(ppm)						
50		29.29	0.041						
40		35.39	0.050						
30		34.05	0.048		PASS				
20	Normal Vol-	31.72	0.045	2.5ppm					
10		19.37	0.027						
0	tage	34.90	0.049						
-10		33.26	0.005						
-20		29.64	0.042						
-30		19.49	0.027						
25	Maximum	22.66	0.032						
20	Voltage	22.00	3.302						
25	BEP	21.32	0.030						

LTE Band 5 (QPSK) / 836.5MHz / BW10M								
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result			
	(Volt)	(Hz)	(ppm)					
50		21.15	0.030					
40		25.11	0.035					
30		29.64	0.042	- - 2.5ppm	PASS			
20	Normal	29.20	0.041					
10	Voltage	35.83	0.050					
0	voltage	13.89	0.020					
-10		29.50	0.004					
-20		33.39	0.047					
-30		30.24	0.043	=				
25	Maximum	18.23	0.026					
	Voltage	10.23	0.020					
25	BEP	18.77	0.026					

Note: 1. Normal Voltage = 3.85V.; Battery End Point (BEP) = 3.5 V.; Maximum Voltage = 4.4V

^{2.} Note: The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.



	LTE Band 7 (QPSK) / 2535MHz / BW10M								
Temperature	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result				
(°C)	(Volt)	(Hz)	(ppm)						
50		28.58	0.011						
40		12.71	0.005						
30		29.67	0.012	- 2.5ppm					
20	Normal Vol-	22.33	0.009		PASS				
10		18.58	0.007						
0	tage	16.58	0.007						
-10		36.18	0.014						
-20		20.53	0.008						
-30		21.99	0.009						
25	Maximum 25	31.56	0.012						
20	Voltage	01.00	0.012						
25	BEP	14.45	0.006						

LTE Band 7 (QPSK) / 2535MHz / BW20M								
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result			
. ,	(Volt)	(Hz)	(ppm)					
50		11.68	0.005					
40		35.20	0.014					
30		17.80	0.007	- - 2.5ppm	PASS			
20	Normal Vol-	15.77	0.006					
10		13.27	0.005					
0	tage	31.63	0.012					
-10		27.57	0.011					
-20		14.22	0.006					
-30		20.24	0.008					
25	Maximum	26.98	0.011					
	Voltage	20.90	0.011					
25	BEP	36.43	0.014					

Note: 1. Normal Voltage = 3.85V.; Battery End Point (BEP) = 3.5V.; Maximum Voltage = 4.4 V

^{2.} Note: The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.



LTE Band 12 (QPSK) / 707.5MHz / BW5M									
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result				
	(Volt)	(Hz)	(ppm)						
50		13.68	0.019						
40		12.61	0.018						
30		16.19	0.023	2.5ppm					
20	Normal Vol-	20.20	0.028						
10		22.86	0.032						
0	tage	32.50	0.046		PASS				
-10		35.22	0.005		PASS				
-20		20.02	0.028						
-30		22.08	0.031						
25	Maximum Voltage	15.80	0.022						
25	BEP	26.53	0.037						

LTE Band 12 (QPSK) / 707.5MHz / BW10M								
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result			
	(Volt)	(Hz)	(ppm)					
50		31.34	0.044					
40		15.65	0.022					
30		32.42	0.046	2.5ppm	PASS			
20	Normal Vol-	33.52	0.047					
10		35.56	0.050					
0	tage	29.63	0.042					
-10		27.05	0.004					
-20		29.26	0.041					
-30		13.78	0.019					
25	Maximum	35.65	0.050					
	Voltage	30.05 	0.050					
25	BEP	28.55	0.040					

Note: 1. Normal Voltage = 3.85V.; Battery End Point (BEP) = 3.5V.; Maximum Voltage = 4.4 V



LTE Band 13 (QPSK) / 782MHz / BW5M								
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result			
	(Volt)	(Hz)	(ppm)					
50		28.52	0.040					
40		25.61	0.036					
30		19.58	0.028	2.5ppm	PASS			
20	Normal Vol-	17.17	0.024					
10		14.82	0.021					
0	tage	21.83	0.031					
-10		26.66	0.004					
-20		22.79	0.032					
-30		19.07	0.027					
25	Maximum Voltage	31.77	0.045					
25	BEP	22.19	0.031					

LTE Band 13 (QPSK) / 782MHz / BW10M						
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result	
	(Volt)	(Hz)	(ppm)			
50		16.99	0.024			
40	Normal Vol-	33.95	0.048	2.5ppm	PASS	
30		18.36	0.026			
20		14.60	0.021			
10		19.54	0.028			
0	tage	31.00	0.044			
-10		16.79	0.002			
-20		30.77	0.043			
-30		21.93	0.031			
25	Maximum Voltage	15.18	0.021			
25	BEP	29.14	0.041			

Note: 1. Normal Voltage = 3.85V.; Battery End Point (BEP) = 3.5V.; Maximum Voltage = 4.4 V



LTE Band 17 (QPSK) / 2535MHz / BW10M							
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result		
	(Volt)	(Hz)	(ppm)				
50		13.03	0.005		PASS		
40		32.78	0.013	2.5ppm			
30	Normal Vol-	34.71	0.014				
20		32.04	0.013				
10		17.87	0.007				
0	tage	14.47	0.006				
-10		23.79	0.009				
-20		20.77	0.008				
-30		24.83	0.010				
25	Maximum Voltage	28.73	0.011				
25	BEP	23.51	0.009				

LTE Band 17 (QPSK) / 2535MHz / BW20M						
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result	
	(Volt)	(Hz)	(ppm)			
50		20.31	0.008			
40	Normal Vol-	13.17	0.005	2.5ppm	PASS	
30		25.27	0.010			
20		30.76	0.012			
10		34.10	0.013			
0	tage	23.07	0.009			
-10		19.67	0.008			
-20		33.65	0.013			
-30		32.20	0.013			
25	Maximum Voltage	30.20	0.012			
25	BEP	26.10	0.010			

Note: 1. Normal Voltage = 3.85V.; Battery End Point (BEP) = 3.5V.; Maximum Voltage = 4.4 V



LTE Band 25 (QPSK) / 1880MHz / BW10M							
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result		
	(Volt)	(Hz)	(ppm)				
50		20.12	0.011		PASS		
40		13.57	0.007	- 2.5ppm			
30	Normal Vol-	36.24	0.019				
20		31.77	0.017				
10		34.90	0.019				
0	tage	21.80	0.012				
-10		15.97	0.008				
-20		31.49	0.017				
-30		22.35	0.012				
25	Maximum Voltage	13.68	0.007				
25	BEP	12.88	0.007				

LTE Band 25 (QPSK) / 1880MHz / BW20M						
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result	
	(Volt)	(Hz)	(ppm)			
50		27.57	0.015			
40	Normal Vol-	13.17	0.007	2.5ppm	PASS	
30		28.21	0.015			
20		30.12	0.016			
10		24.07	0.013			
0	tage	19.78	0.011			
-10		19.77	0.011			
-20		14.34	0.008			
-30		20.03	0.011			
25	Maximum	35.86	0.019			
	Voltage					
25	BEP	15.07	0.008			

Note: 1. Normal Voltage = 3.85V.; Battery End Point (BEP) = 3.5V.; Maximum Voltage = 4.4 V



LTE Band 26 (QPSK) / 1733MHz / BW10M							
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result		
	(Volt)	(Hz)	(ppm)				
50		22.24	0.013		PASS		
40		21.68	0.013	2.5ppm			
30	Normal Vol-	26.39	0.015				
20		30.60	0.018				
10		21.98	0.013				
0	tage	28.65	0.017				
-10		24.43	0.014				
-20		30.85	0.018				
-30		20.75	0.012				
25	Maximum Voltage	12.41	0.007				
25	BEP	28.96	0.017				

LTE Band 26 (QPSK) / 1733MHz / BW20M						
	Voltage	Freq.	Freq.		Result	
Temperature (°C)		Dev.	Dev.	Limit		
	(Volt)	(Hz)	(ppm)			
50		34.53	0.020			
40		34.05	0.020	2.5ppm	PASS	
30	Normal Vol-	24.73	0.014			
20		21.58	0.012			
10		34.34	0.020			
0	tage	29.29	0.017			
-10		16.70	0.010			
-20		32.82	0.019			
-30		29.85	0.017			
25	Maximum	26 27	0.021			
	Voltage	36.37	0.021			
25	BEP	23.39	0.013			

Note: 1. Normal Voltage = 3.85V.; Battery End Point (BEP) = 3.5V.; Maximum Voltage = 4.4 V



LTE Band 41 (QPSK) / 2593MHz / BW10M							
Temperature	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result		
(°C)	(Volt)	(Hz)	(ppm)				
50		21.31	0.008				
40		30.77	0.012				
30	Normal Vol-	17.06	0.007				
20		32.78	0.013	- 2.5ppm	PASS		
10		33.03	0.013				
0	tage	19.90	0.008				
-10		25.68	0.010				
-20		28.38	0.011				
-30		15.01	0.006				
25	Maximum	34.58	0.014				
	Voltage	J-1.50	0.014				
25	BEP	24.74	0.010				

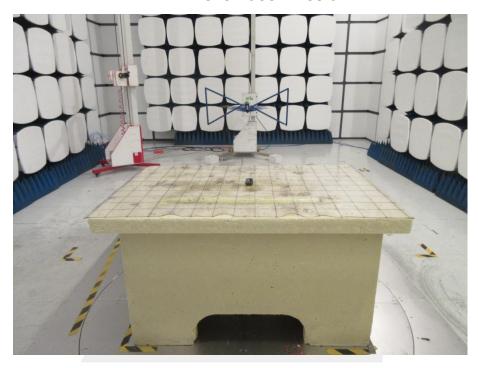
LTE Band 41 (QPSK) / 2593MHz / BW20M							
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result		
	(Volt)	(Hz)	(ppm)				
50		20.29	0.008				
40		31.36	0.012	2.5ppm	PASS		
30	Normal Vol-	21.59	0.009				
20		25.33	0.010				
10		34.21	0.013				
0	tage	16.81	0.007				
-10		26.62	0.011				
-20		26.82	0.011				
-30		19.46	0.008				
25	Maximum	21.95	0.013				
	Voltage	31.85					
25	BEP	33.15	0.013				

Note: 1. Normal Voltage = 3.85V.; Battery End Point (BEP) = 3.5V.; Maximum Voltage = 4.4 V



PHOTOS OF TEST SETUP

RADIATED SPURIOUS EMISSION





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