



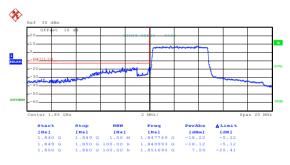
Date: 19.0CT.2017 08:45:19

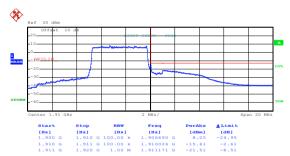
Date: 19.0CT.2017 08:48:01

Lowest channel

Highest channel

QPSK & RB Size 25





Date: 19.0CT.2017 08:47:14

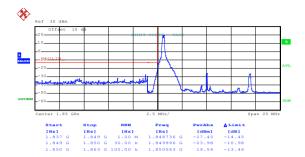
Date: 19.0CT.2017 08:49:48

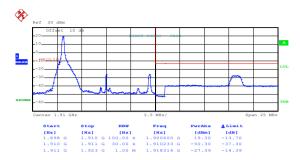
Lowest channel

Highest channel



16QAM & RB Size 1





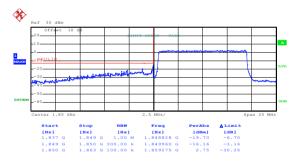
Date: 19.0CT.2017 08:51:39

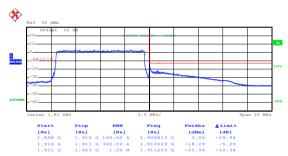
Date: 19.0CT.2017 08:54:06

Lowest channel

Highest channel

16QAM & RB Size 50





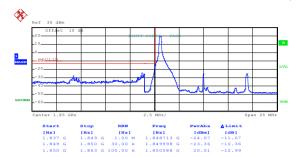
Date: 19.0CT.2017 08:53:21

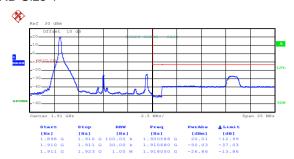
Date: 19.0CT.2017 08:56:04

Lowest channel

Highest channel







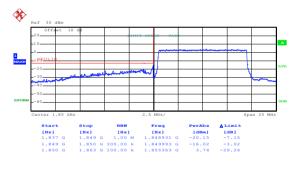
Date: 19.0CT.2017 08:51:31

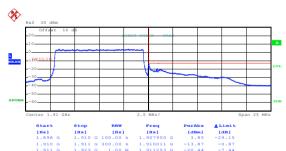
Date: 19.0CT.2017 08:53:58

Lowest channel

Highest channel

QPSK & RB Size 50





Date: 19.0CT.2017 08:53:13

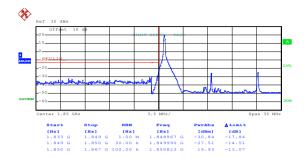
Date: 19.0CT.2017 08:55:57

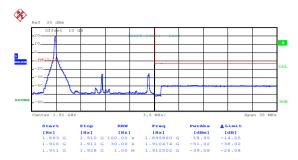
Lowest channel

Highest channel



16QAM & RB Size 1





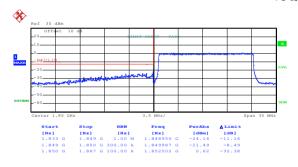
Date: 19.0CT.2017 08:57:18

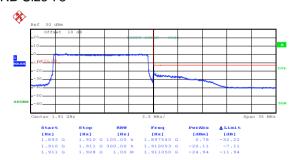
Date: 19.0CT.2017 08:59:43

Lowest channel

Highest channel

16QAM & RB Size 75





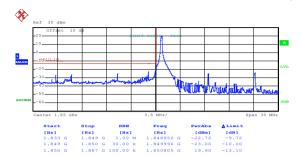
Date: 19.0CT.2017 08:58:58

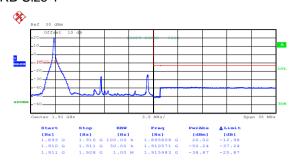
Date: 19.0CT.2017 09:01:20

Lowest channel

Highest channel







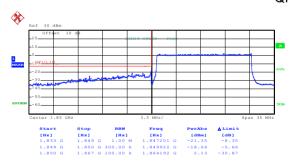
Date: 19.0CT.2017 08:57:09

Date: 19.0CT.2017 08:59:35

Lowest channel

Highest channel

QPSK & RB Size 75





Date: 19.0CT.2017 08:58:50

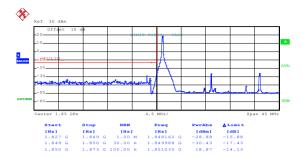
Date: 19.0CT.2017 09:01:13

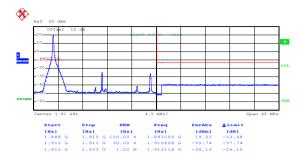
Lowest channel

Highest channel



16QAM & RB Size 1





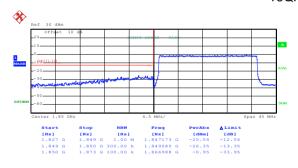
Date: 19.0CT.2017 09:02:23

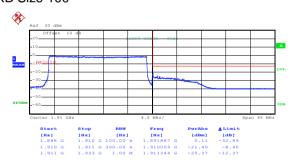
Date: 19.0CT.2017 09:04:54

Lowest channel

Highest channel

16QAM & RB Size 100





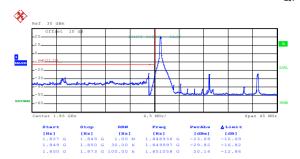
Date: 19.0CT.2017 09:04:15

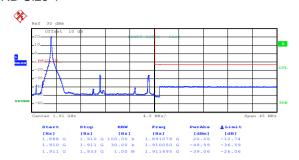
Date: 19.0CT.2017 09:06:30

Lowest channel

Highest channel







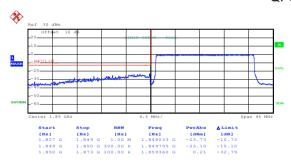
Date: 19.0CT.2017 09:02:14

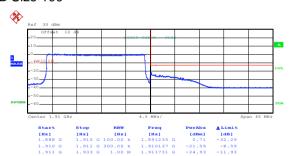
Date: 19.0CT.2017 09:04:44

Lowest channel

Highest channel

QPSK & RB Size 100





Date: 19.0CT.2017 09:04:08

Date: 19.0CT.2017 09:06:22

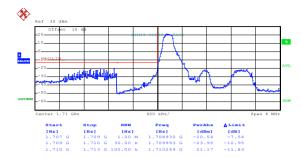
Lowest channel

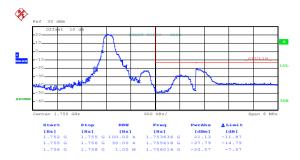
Highest channel



LTE band 4, 1.4MHz:

16QAM & RB Size 1





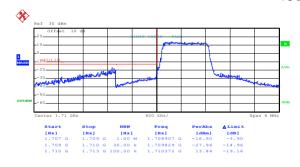
Date: 19.0CT.2017 09:13:44

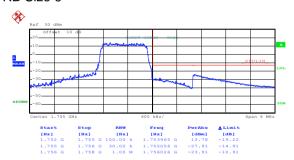
Date: 19.0CT.2017 09:15:47

Lowest channel

Highest channel

16QAM & RB Size 6





Date: 19.0CT.2017 09:15:17

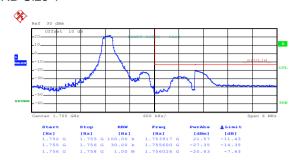
Date: 19.0CT.2017 09:17:08

Lowest channel

Highest channel







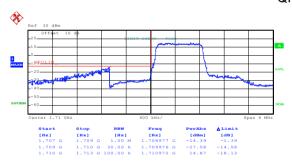
Date: 19.0CT.2017 09:13:35

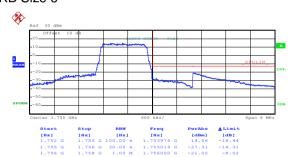
Date: 19.0CT.2017 09:15:40

Lowest channel

Highest channel

QPSK & RB Size 6





Date: 19.0CT.2017 09:15:10

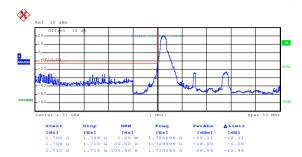
Date: 19.0CT.2017 09:17:00

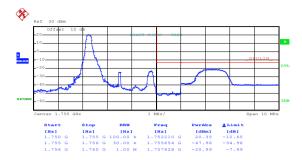
Lowest channel

Highest channel



16QAM & RB Size 1





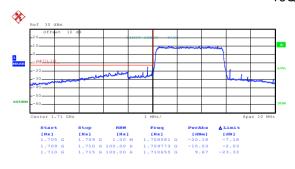
Date: 19.0CT.2017 09:18:19

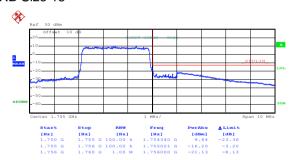
Date: 19.0CT.2017 09:21:43

Lowest channel

Highest channel

16QAM & RB Size 15





Date: 19.0CT.2017 09:20:51

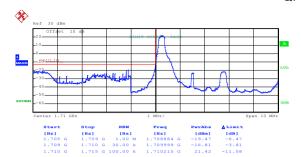
Date: 19.0CT.2017 09:23:09

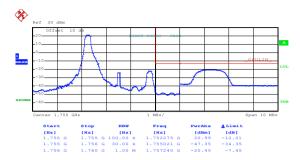
Lowest channel

Highest channel









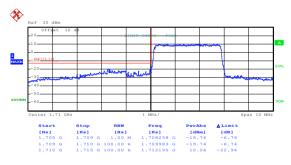
Date: 19.0CT.2017 09:18:05

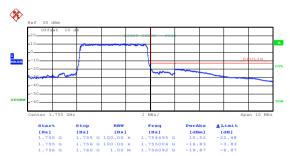
Date: 19.0CT.2017 09:21:35

Lowest channel

Highest channel

QPSK & RB Size 15





Date: 19.0CT.2017 09:20:43

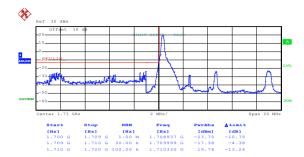
Date: 19.0CT.2017 09:23:02

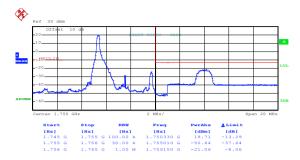
Lowest channel

Highest channel



16QAM & RB Size 1





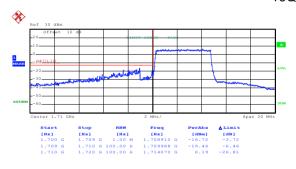
Date: 19.0CT.2017 09:25:04

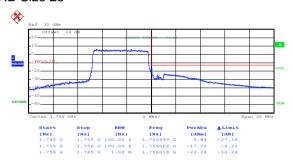
Date: 19.0CT.2017 09:28:16

Lowest channel

Highest channel

16QAM & RB Size 25





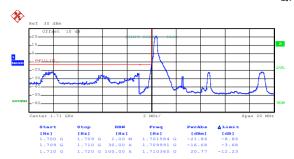
Date: 19.0CT.2017 09:27:20

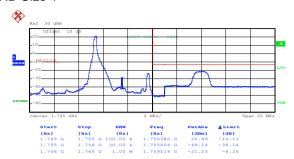
Date: 19.0CT.2017 09:29:38

Lowest channel

Highest channel







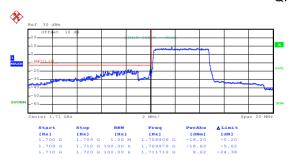
Date: 19.0CT.2017 09:24:56

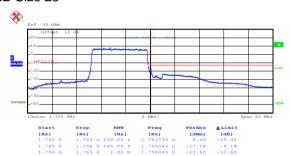
Date: 19.0CT.2017 09:28:09

Lowest channel

Highest channel

QPSK & RB Size 25





Date: 19.0CT.2017 09:27:14

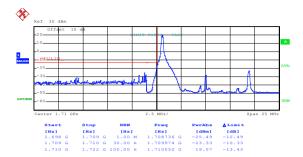
Date: 19.0CT.2017 09:29:32

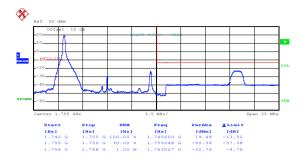
Lowest channel

Highest channel



16QAM & RB Size 1





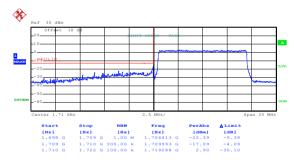
Date: 19.0CT.2017 09:31:01

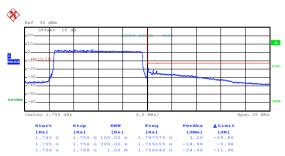
Date: 19.0CT.2017 09:33:05

Lowest channel

Highest channel

16QAM & RB Size 50





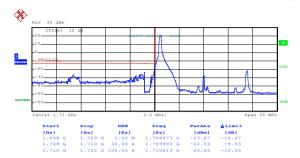
Date: 19.0CT.2017 09:32:33

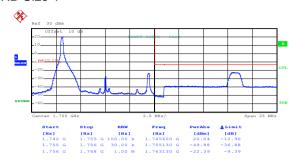
Date: 19.0CT.2017 09:34:36

Lowest channel

Highest channel







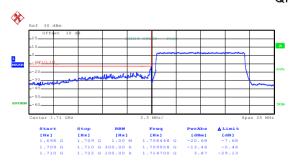
Date: 19.0CT.2017 09:30:54

Date: 19.0CT.2017 09:32:58

Lowest channel

Highest channel

QPSK & RB Size 50





Date: 19.0CT.2017 09:32:26

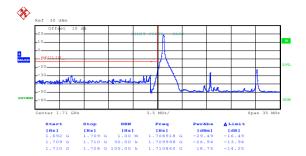
Date: 19.0CT.2017 09:34:31

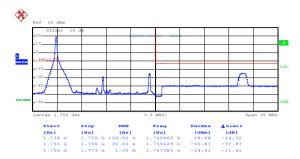
Lowest channel

Highest channel



16QAM & RB Size 1





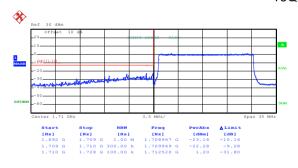
Date: 19.0CT.2017 09:35:42

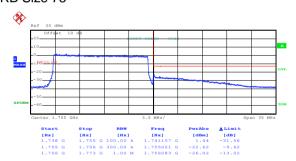
Date: 19.OCT.2017 09:37:53

Lowest channel

Highest channel

16QAM & RB Size 75





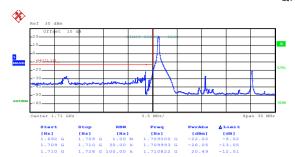
Date: 19.0CT.2017 09:37:14

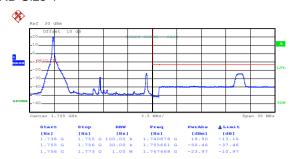
Date: 19.0CT.2017 09:39:17

Lowest channel

Highest channel







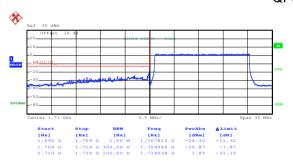
Date: 19.0CT.2017 09:35:35

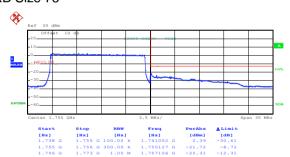
Date: 19.0CT.2017 09:37:46

Lowest channel

Highest channel

QPSK & RB Size 75





Date: 19.0CT.2017 09:37:07

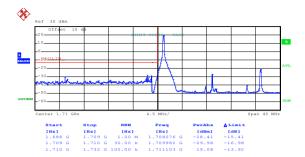
Date: 19.0CT.2017 09:39:11

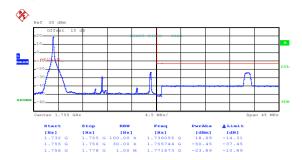
Lowest channel

Highest channel



16QAM & RB Size 1





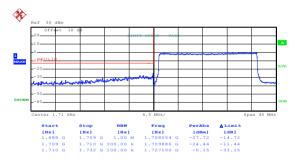
Date: 19.0CT.2017 09:40:21

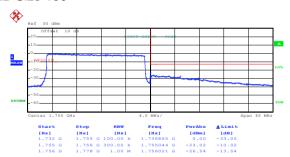
Date: 19.0CT.2017 09:42:29

Lowest channel

Highest channel

16QAM & RB Size 100





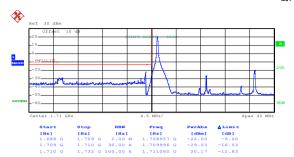
Date: 19.0CT.2017 09:41:53

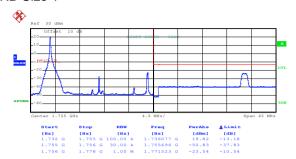
Date: 19.0CT.2017 09:43:53

Lowest channel

Highest channel







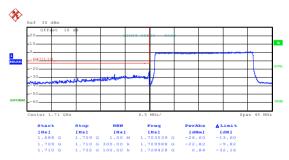
Date: 19.0CT.2017 09:40:12

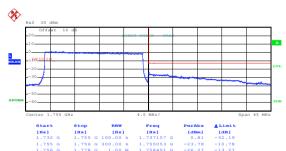
Date: 19.0CT.2017 09:42:20

Lowest channel

Highest channel

QPSK & RB Size 100





Date: 19.0CT.2017 09:41:46

Date: 19.0CT.2017 09:43:46

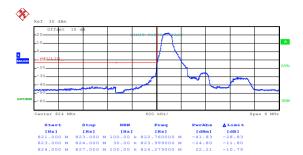
Lowest channel

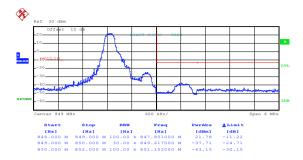
Highest channel



LTE band 5, 1.4MHz:

16QAM & RB Size 1





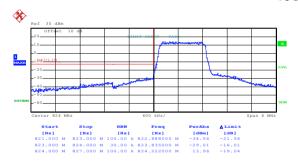
Date: 19.0CT.2017 10:17:06

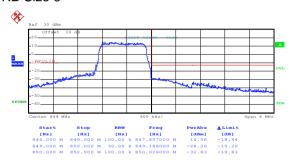
Date: 19.0CT.2017 10:18:54

Lowest channel

Highest channel

16QAM & RB Size 6





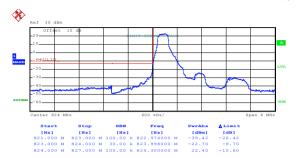
Date: 19.0CT.2017 10:18:24

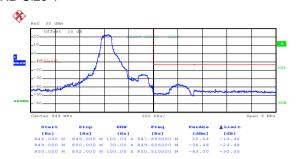
Date: 19.0CT.2017 10:20:13

Lowest channel

Highest channel







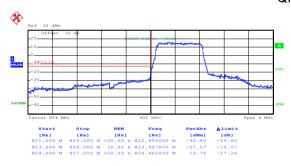
Date: 19.0CT.2017 10:16:46

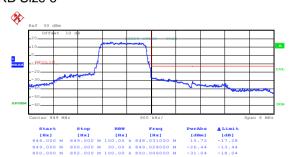
Date: 19.0CT.2017 10:18:46

Lowest channel

Highest channel

QPSK & RB Size 6





Date: 19.0CT.2017 10:18:17

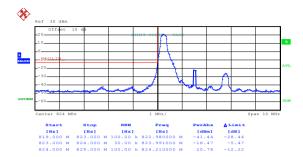
Date: 19.0CT.2017 10:20:07

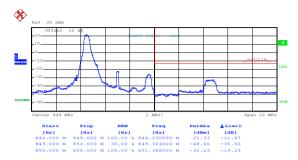
Lowest channel

Highest channel



16QAM & RB Size 1





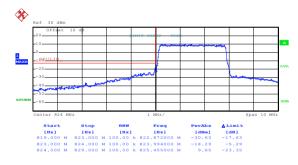
Date: 19.0CT.2017 10:21:20

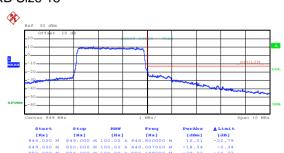
Date: 19.0CT.2017 10:23:56

Lowest channel

Highest channel

16QAM & RB Size 15





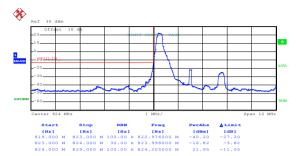
Date: 19.0CT.2017 10:23:19

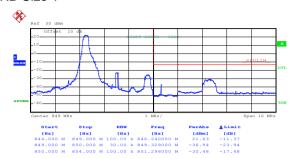
Date: 19.0CT.2017 10:25:25

Lowest channel

Highest channel







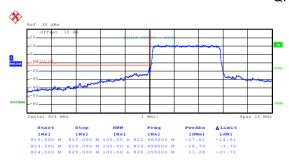
Date: 19.0CT.2017 10:21:12

Date: 19.0CT.2017 10:23:48

Lowest channel

Highest channel

QPSK & RB Size 15





Date: 19.0CT.2017 10:23:13

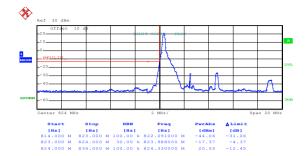
Date: 19.OCT.2017 10:25:19

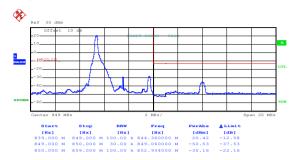
Lowest channel

Highest channel



16QAM & RB Size 1





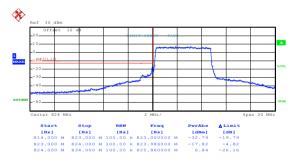
Date: 19.0CT.2017 10:26:58

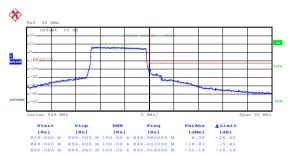
Date: 19.0CT.2017 10:30:16

Lowest channel

Highest channel

16QAM & RB Size 25





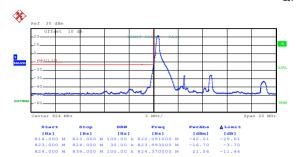
Date: 19.0CT.2017 10:29:26

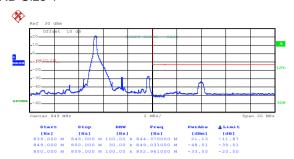
Date: 19.0CT.2017 10:31:47

Lowest channel

Highest channel







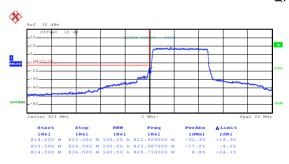
Date: 19.0CT.2017 10:26:50

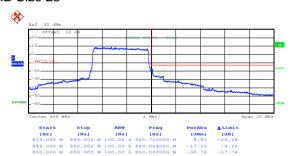
Date: 19.0CT.2017 10:30:09

Lowest channel

Highest channel

QPSK & RB Size 25





Date: 19.0CT.2017 10:29:17

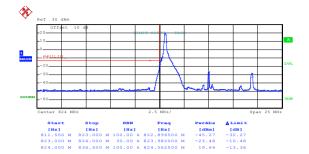
Date: 19.0CT.2017 10:31:40

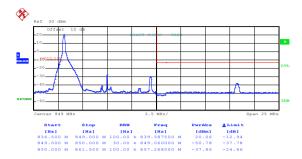
Lowest channel

Highest channel



16QAM & RB Size 1





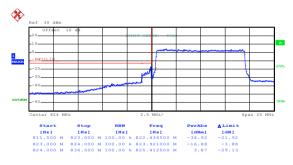
Date: 19.0CT.2017 10:32:59

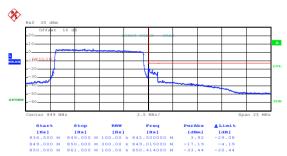
Date: 19.0CT.2017 10:35:14

Lowest channel

Highest channel

16QAM & RB Size 50





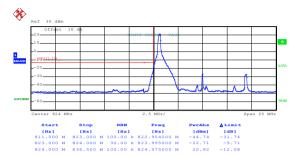
Date: 19.0CT.2017 10:34:29

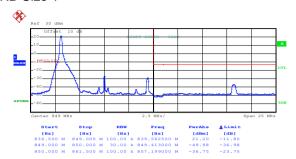
Date: 19.0CT.2017 10:36:49

Lowest channel

Highest channel







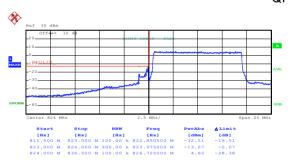
Date: 19.0CT.2017 10:32:52

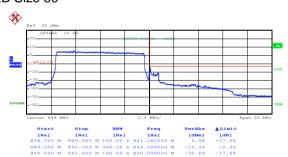
Date: 19.0CT.2017 10:35:07

Lowest channel

Highest channel

QPSK & RB Size 50





Date: 19.0CT.2017 10:34:22

Date: 19.OCT.2017 10:36:43

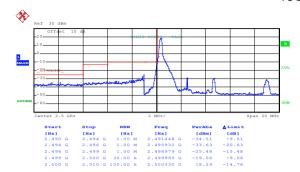
Lowest channel

Highest channel



LTE band 7, 5 MHz:

16QAM & RB Size 1





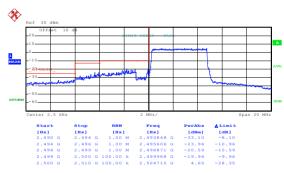
Date: 19.0CT.2017 09:48:38

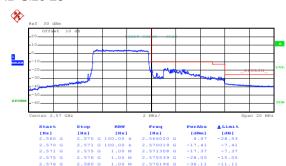
Date: 19.0CT.2017 09:51:03

Lowest channel

Highest channel

16QAM & RB Size 25





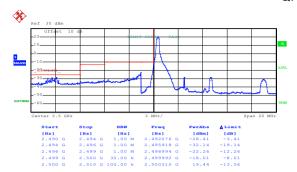
Date: 19.0CT.2017 09:50:15

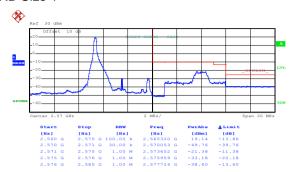
Date: 19.0CT.2017 09:57:12

Lowest channel

Highest channel







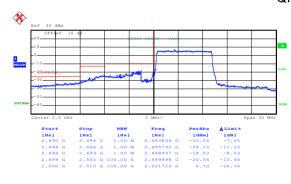
Date: 19.0CT.2017 09:48:27

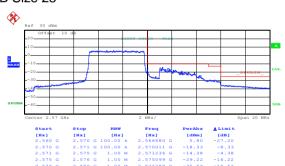
Date: 19.0CT.2017 09:50:55

Lowest channel

Highest channel

QPSK & RB Size 25





Date: 19.0CT.2017 09:50:08

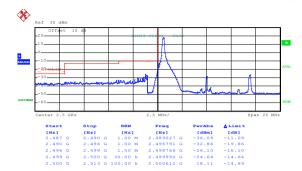
Date: 19.0CT.2017 09:57:06

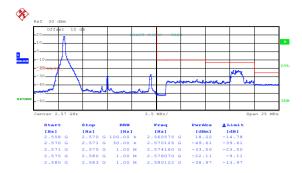
Lowest channel

Highest channel



16QAM & RB Size 1





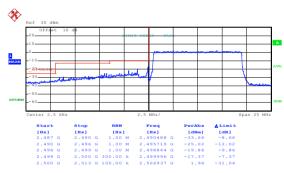
Date: 19.0CT.2017 09:58:42

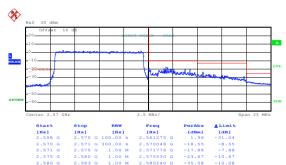
Date: 19.0CT.2017 10:00:56

Lowest channel

Highest channel

16QAM & RB Size 50





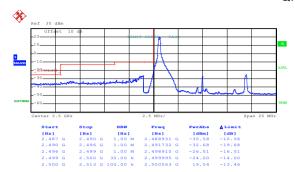
Date: 19.0CT.2017 10:00:17

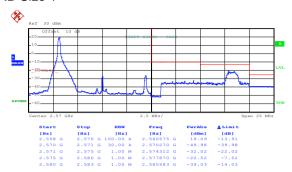
Date: 19.0CT.2017 10:02:37

Lowest channel

Highest channel







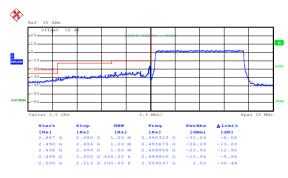
Date: 19.0CT.2017 09:58:31

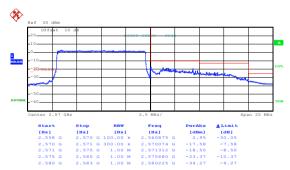
Date: 19.0CT.2017 10:00:49

Lowest channel

Highest channel

QPSK & RB Size 50





Date: 19.0CT.2017 10:00:11

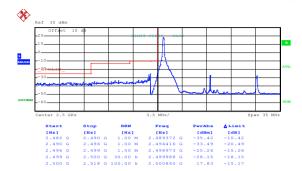
Date: 19.0CT.2017 10:02:28

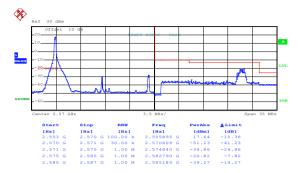
Lowest channel

Highest channel



16QAM & RB Size 1





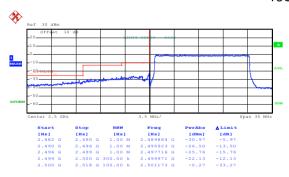
Date: 19.0CT.2017 10:03:49

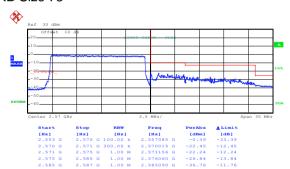
Date: 19.0CT.2017 10:06:19

Lowest channel

Highest channel

16QAM & RB Size 75





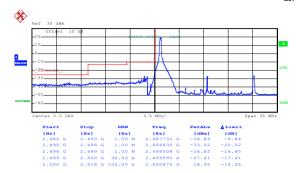
Date: 19.0CT.2017 10:05:31

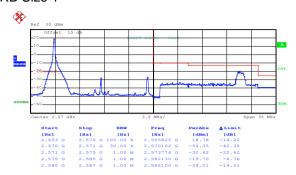
Date: 19.0CT.2017 10:08:02

Lowest channel

Highest channel







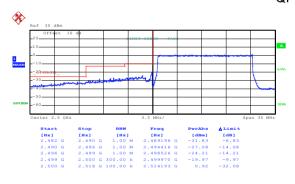
Date: 19.0CT.2017 10:03:41

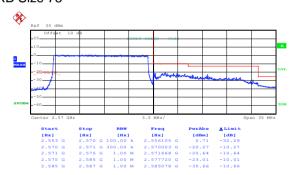
Date: 19.0CT.2017 10:06:11

Lowest channel

Highest channel

QPSK & RB Size 75





Date: 19.0CT.2017 10:05:21

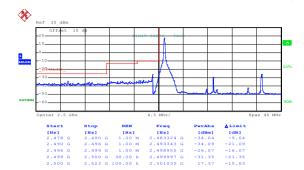
Date: 19.0CT.2017 10:07:55

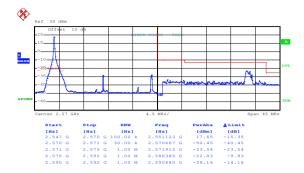
Lowest channel

Highest channel



16QAM & RB Size 1





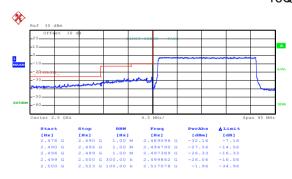
Date: 19.0CT.2017 10:08:58

Date: 19.0CT.2017 10:11:08

Lowest channel

Highest channel

16QAM & RB Size 100





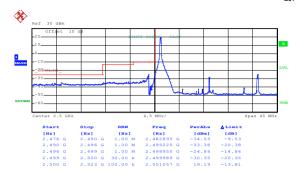
Date: 19.0CT.2017 10:10:27

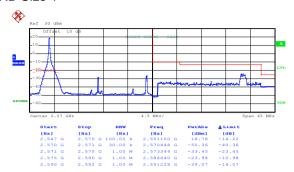
Date: 19.0CT.2017 10:12:40

Lowest channel

Highest channel







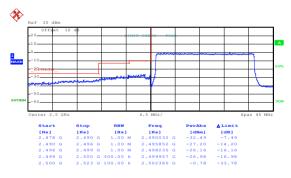
Date: 19.0CT.2017 10:08:51

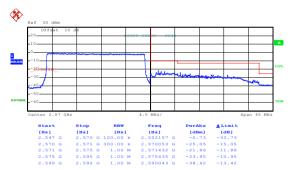
Date: 19.0CT.2017 10:11:01

Lowest channel

Highest channel

QPSK & RB Size 100





Date: 19.0CT.2017 10:10:20

Date: 19.OCT.2017 10:12:33

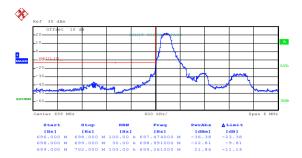
Lowest channel

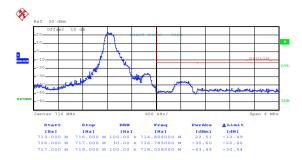
Highest channel



LTE band 12, 1.4MHz:

16QAM & RB Size 1





Date: 19.0CT.2017 10:39:01

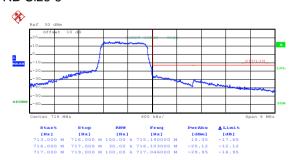
Date: 19.0CT.2017 10:41:01

Lowest channel

Highest channel

16QAM & RB Size 6





Date: 19.0CT.2017 10:40:28

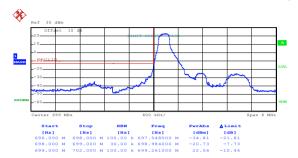
Date: 19.0CT.2017 10:42:24

Lowest channel

Highest channel



QPSK & RB Size 1





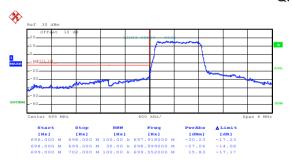
Date: 19.0CT.2017 10:38:52

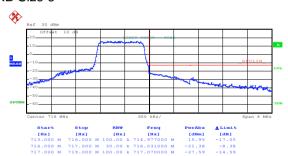
Date: 19.0CT.2017 10:40:53

Lowest channel

Highest channel

QPSK & RB Size 6





Date: 19.0CT.2017 10:40:19

Date: 19.OCT.2017 10:42:13

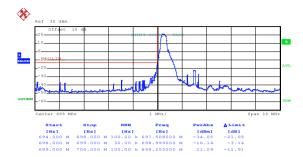
Lowest channel

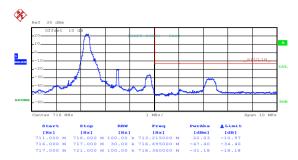
Highest channel



3 MHz:

16QAM & RB Size 1





Date: 19.0CT.2017 10:45:32

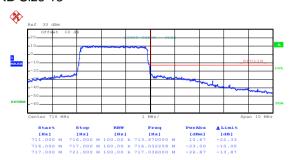
Date: 19.0CT.2017 10:48:04

Lowest channel

Highest channel

16QAM & RB Size 15





Date: 19.0CT.2017 10:47:27

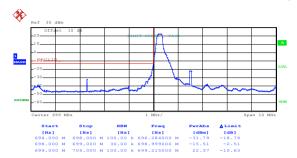
Date: 19.0CT.2017 10:49:59

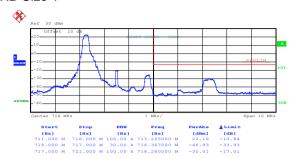
Lowest channel

Highest channel



QPSK & RB Size 1





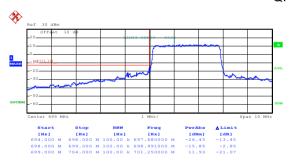
Date: 19.0CT.2017 10:45:24

Date: 19.0CT.2017 10:47:53

Lowest channel

Highest channel

QPSK & RB Size 15





Date: 19.0CT.2017 10:47:19

Date: 19.0CT.2017 10:49:52

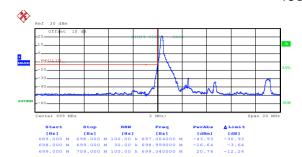
Lowest channel

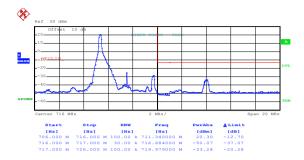
Highest channel



5 MHz:

16QAM & RB Size 1





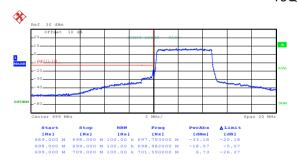
Date: 19.0CT.2017 10:51:14

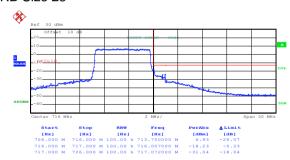
Date: 19.0CT.2017 10:53:45

Lowest channel

Highest channel

16QAM & RB Size 25





Date: 19.0CT.2017 10:53:08

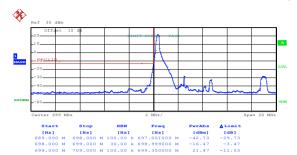
Date: 19.0CT.2017 10:56:17

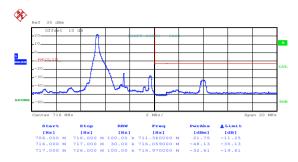
Lowest channel

Highest channel



QPSK & RB Size 1





Date: 19.0CT.2017 10:51:07

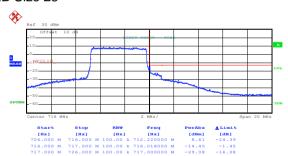
Date: 19.0CT.2017 10:53:38

Lowest channel

Highest channel

QPSK & RB Size 25





Date: 19.0CT.2017 10:53:02

Date: 19.0CT.2017 10:56:10

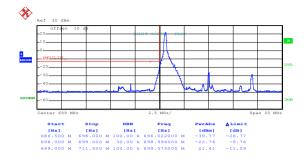
Lowest channel

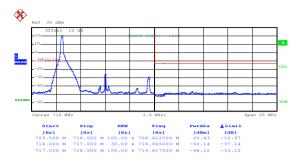
Highest channel



10 MHz:

16QAM & RB Size 1





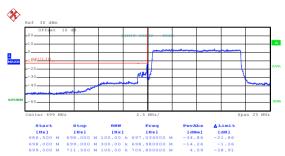
Date: 19.0CT.2017 11:03:59

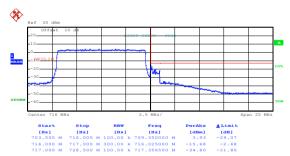
Date: 19.0CT.2017 11:09:43

Lowest channel

Highest channel

16QAM & RB Size 50





Date: 19.0CT.2017 11:05:59

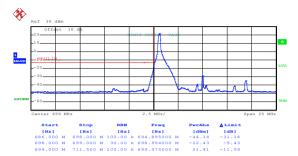
Date: 19.0CT.2017 11:15:26

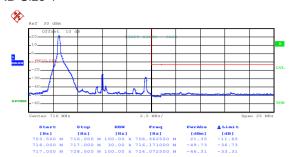
Lowest channel

Highest channel



QPSK & RB Size 1





Date: 19.0CT.2017 11:01:27

Date: 19.0CT.2017 11:09:35

Lowest channel

Highest channel

QPSK & RB Size 50





Date: 19.0CT.2017 11:05:51

Date: 19.0CT.2017 11:15:18

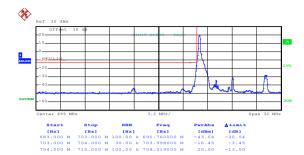
Lowest channel

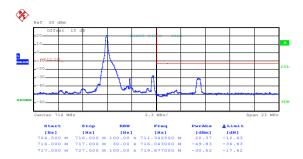
Highest channel



LTE band 17, 5 MHz:

16QAM & RB Size 1





Date: 19.0CT.2017 11:28:22

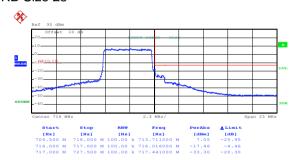
Date: 19.0CT.2017 11:30:55

Lowest channel

Highest channel

16QAM & RB Size 25





Date: 19.0CT.2017 11:30:15

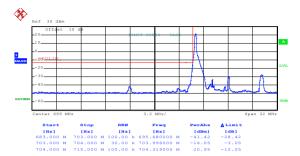
Date: 19.0CT.2017 11:32:26

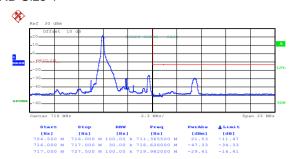
Lowest channel

Highest channel



QPSK & RB Size 1





Date: 19.0CT.2017 11:28:10

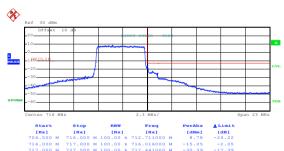
Date: 19.0CT.2017 11:30:48

Lowest channel

Highest channel

QPSK & RB Size 25





Date: 19.0CT.2017 11:30:08

Date: 19.0CT.2017 11:32:21

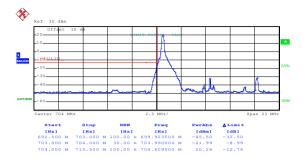
Lowest channel

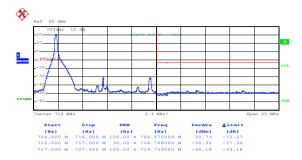
Highest channel



10 MHz:

16QAM & RB Size 1





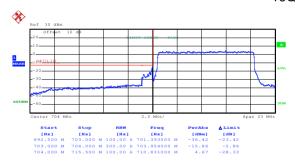
Date: 19.0CT.2017 11:34:05

Date: 19.0CT.2017 11:36:20

Lowest channel

Highest channel

16QAM & RB Size 50





Date: 19.0CT.2017 11:35:43

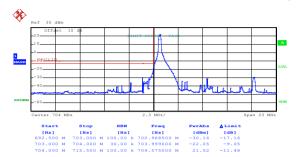
Date: 19.0CT.2017 11:38:14

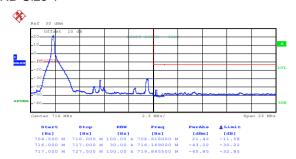
Lowest channel

Highest channel



QPSK & RB Size 1





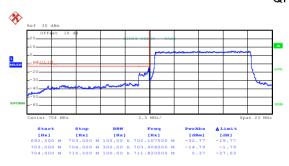
Date: 19.0CT.2017 11:33:58

Date: 19.0CT.2017 11:36:13

Lowest channel

Highest channel

QPSK & RB Size 50





Date: 19.0CT.2017 11:35:37

Date: 19.0CT.2017 11:38:05

Lowest channel

Highest channel





6.5 ERP, EIRP Measurement

5.5 ERP, EIRP Weasure	
Test Requirement:	Part 22.913(a), Part 24.232(c), part 27.50(c), part 27.50(d), part 27.50 (h)
Test Method:	ANSI/TIA-603-D 2010
Limit:	LTE Band 2: 2W EIRP, LTE Band 4: 1W EIRP
	LTE Band 5: 7W EIRP, LTE Band 7: 2W EIRP, LTE Band 12: 3W ERP, LTE Band 17: 3W EIRP
Test setup:	Below 1GHz
rest setup.	Test Receives Controlles
	Above 1GHz
	And Fundamental Plans Graund Reference Plans Test Receiver Test Receiver
Test Procedure:	 The EUT was placed on an non-conductive turntable using a non-conductive support. The radiated emission at the fundamental frequency was measured at 3 m with a test antenna and EMI spectrum analyzer. During the measurement, the EUT was communication with the station. The highest emission was recorded with the rotation of the turntable and the lowering of the test antenna from 4m to 1m. The reading was recorded and the field strength (E in dBuV/m) was calculated. ERP in frequency band below 1GHz were measured using a substitution method. The EUT was replaced by dipole antenna connected, the S.G. output was recorded and ERP was calculated as follows: ERP = S.G. output (dBm) + Antenna Gain (dBd) - Cable Loss (dB) EIRP in frequency band above 1GHz were measured using a substitution method. The EUT was replaced by or horn antenna connected, the S.G. output was recorded and EIRP was calculated as follows: EIRP = S.G. output (dBm) + Antenna Gain (dBi) - Cable Loss (dB) The worse case was relating to the conducted output power.
Test Instruments:	Refer to section 5.8 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed





Measurement Data:

LTE Band 2

1	LTL Ballu 2									
Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result		
	Lowest Channel									
1850.70	18607	QPSK	1.4	Н	V	21.92				
1650.70	10007	QFSK	1.4	П	Н	19.23	33.00	Pass		
1850.70	18607	16QAM	1.4	Н	V	22.06	33.00	Pass		
1650.70	10001	TOQAW	1.4	П	Н	20.04				
			Mido	lle Channel						
1880.00	18900	QPSK	1.4	Н	V	22.19				
1660.00	10900	QFSK	1.4	[1	Н	20.30	33.00	Pass		
1880.00	18900	16QAM	1.4	Н	V	22.44	33.00	rass		
1660.00	10900	TOQAW	1.4	[1	Н	19.68				
			High	est Channe	1					
1909.3	19193	QPSK	1.4	Н	V	22.26				
1909.3	19193	QFSK	1.4	П	Н	21.09	33.00	Door		
1909.3	19193	16QAM	1.4	Н	V	22.47	33.00	Pass		
1909.3	19193	IOQAW	1.4	11	Н	19.69				

Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result	
	Lowest Channel								
1051 50	18615	ODCK	3	Н	V	20.55			
1851.50	10015	QPSK	3	П	Н	19.01	22.00	Door	
1851.50	18615	16QAM	3	Н	V	21.62	33.00	Pass	
1651.50	10013	IOQAW	o	П	Н	19.06			
			Mido	lle Channel					
1880.00	18900	QPSK	3	Н	V	21.44			
1000.00	10900	QFSK	3	П	Н	19.03	33.00	Pass	
1000.00	10000	16OAM	3	Н	V	22.06	33.00	Fa55	
1880.00	18900	16QAM	3	П	Н	19.39			
			High	est Channe					
4000.50	40405	ODCK	3	1.1	V	21.16			
1908.50	19185	QPSK	3	Н	Н	20.69	33.00	Door	
1009 50	10105	16OAM	3	Н	V	22.40	SS.00	Pass	
1908.50	19185	16QAM	3	П	Н	19.23			





Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
			Lowe	est Channel				
1050.50	10005	ODSK	5	Н	V	20.56		
1852.50	18625	QPSK	5	П	Н	19.32	22.00	Door
1852.50	18625	16QAM	5	Н	V	21.18	33.00	Pass
1652.50	10023	IOQAW	3	П	Н	18.24		
			Midd	de Channel				
1880.00	18900	QPSK	5	Н	V	20.39		
1000.00	10900	QFSK	3	П	Н	19.55	33.00	Pass
1880.00	18900	16QAM	5	Н	V	21.62	33.00	Pass
1000.00	10900	IOQAW	3	П	Н	20.06		
			High	est Channe				
1007.50	40475	ODCK	_	11	V	21.60		
1907.50	19175	QPSK	5	Н	Н	19.23	22.00	Daga
1007.50	10175	160AM	E	Н	V	21.06	33.00	Pass
1907.50	19175	16QAM	5	П	Н	19.65		

Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
			Lowe	est Channel				
1055.00	10050	QPSK	10	Н	V	21.98		
1855.00	18650	QPSK	10	п	Н	20.01	22.00	Door
1855.00	18650	16QAM	10	Н	V	22.49	33.00	Pass
1655.00	10000	IOQAW	10	П	Н	19.40		
			Midd	lle Channel				
1880.00	18900	QPSK	10	Н	V	21.65		
1000.00	10900	QFSK	10	Π	Н	20.03	33.00	Pass
1880.00	18900	16QAM	10	Н	V	22.78	33.00	Pass
1000.00	16900	IOQAW	10	П	Н	19.36		
			High	est Channe				
1005.00	40450	ODCK	40	1.1	V	21.23		
1905.00	19150	QPSK	10	Н	Н	20.46	33.00	Door
1905.00	19150	16QAM	10	Н	V	22.25	33.00	Pass
1905.00	19100	IOQAW	10	П	Н	19.32		





Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
			Lowe	est Channel				
1057.50	10075	QPSK	15	Н	V	21.52		
1857.50	18675	QPSK	15	П	Н	19.65	22.00	Door
1857.50	18675	16QAM	15	Н	V	22.04	33.00	Pass
1657.50	10075	IOQAW	15	П	Н	19.36		
			Midd	lle Channel				
1880.00	18900	QPSK	15	Н	V	21.32		
1000.00	10900	QFSK	15	П	Н	19.95	33.00	Pass
1000.00	10000	16OAM	15	Н	V	22.54	33.00	Fa55
1880.00	18900	16QAM	15	П	Н	19.32		
			High	est Channe				
4000.50	40405	ODCK	45	1.1	V	21.16		
1902.50	19125	QPSK	15	Н	Н	20.20	00.00	Dana
1000 F0	10105	16OAM	15	Ш	V	22.16	33.00	Pass
1902.50	19125	16QAM	15	Н	Н	20.04		

Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result	
	Lowest Channel								
1960.00	10700	QPSK	20	Н	V	21.46			
1860.00	18700	QPSK	20	П	Н	19.02	33.00	Door	
1860.00	18700	16QAM	20	Н	V	22.13	33.00	Pass	
1660.00	10700	IOQAW	20	П	Н	19.19			
			Mido	lle Channel					
1880.00	18900	QPSK	20	Н	V	20.95			
1880.00	10900	QFSK	20	Π	Н	18.56	33.00	Pass	
1880.00	18900	16QAM	20	Н	V	21.36	33.00	F a 5 5	
1000.00	10900	IOQAW	20	П	Н	19.44			
			High	est Channe					
1000.00	10100	ODSK	20	Ш	V	21.03			
1900.00	19100	QPSK	20	Н	Н	19.84	22.00	Door	
1000.00	10100	160AM	20	Н	V	22.01	33.00	Pass	
1900.00	19100	16QAM	20	П	Н	19.44			





LTE Band 4

	LIL Band 7									
Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result		
			Lowe	est Channel						
1710 70	10057	OBSK	1 1	Н	V	22.23				
1710.70	19957	QPSK	1.4	П	Н	19.55	30.00	Pass		
1710.70	19957	16QAM	1.4	Н	V	21.69	30.00	Fa55		
1710.70	19907	IOQAW	1.4	П	Н	19.02				
			Midd	lle Channel						
1732.50	20175	QPSK	1.4	Н	V	23.15				
1732.50	20175	QFSK	1.4	П	Н	20.44	30.00	Pass		
1722.50	20175	16QAM	1.4	Н	V	22.62	30.00	Pass		
1732.50	20175	IOQAW	1.4	П	Н	19.26				
			High	est Channe						
4754.00	20202	ODCK	4.4	1.1	V	22.45				
1754.30	20393	QPSK	1.4	Н	Н	20.26	20.00	Door		
1754.20	20202	160AM	1.1	Н	V	22.10	30.00	Pass		
1754.30	20393	16QAM	1.4	П	Н	19.03				

Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
	Lowest Channel							
1711 FO	10065	QPSK	3	Н	V	22.47		
1711.50	19965	QPSK	3	п	Н	19.36	20.00	Door
1711.50	19965	16QAM	3	Н	V	21.24	30.00	Pass
1711.50	19965	IOQAW	3	П	Н	19.29		
			Midd	lle Channel				
1732.50	20175	QPSK	3	Н	V	22.42		
1732.50	20175	QFSK	o	П	Н	19.26	30.00	Pass
1722 FO	20175	16001	3	Н	V	21.20	30.00	Fa55
1732.50	20175	16QAM	3	П	Н	19.58		
			High	est Channe				
4750.50	20205	ODCK	2	1.1	V	22.46		
1753.50	20385	QPSK	3	Н	Н	19.27	20.00	Door
1752.50	20205	16OAM	3	Н	V	21.23	30.00	Pass
1753.50	20385	16QAM	3	П	Н	19.51		





Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
	•		Lowe	est Channel				
1710 FO	10075	ODSK	5	Н	V	21.68		
1712.50	19975	QPSK	5	П	Н	19.04	20.00	Door
1712.50	19975	16QAM	5	Н	V	21.47	30.00	Pass
1712.50	19975	IOQAW	5	П	Н	19.21		
			Midd	lle Channel				
1732.50	20175	QPSK	5	Н	V	21.46		
1732.50	20175	QFSK	5	Π	Н	19.05	30.00	Pass
1732.50	20175	16QAM	5	Н	V	20.85	30.00	F 455
1732.50	20175	IOQAW	5	П	Н	19.21		
			High	est Channe				
4750.50	20275	ODCK	_	1.1	V	21.43		
1752.50	20375	QPSK	5	Н	Н	19.03	20.00	Daga
1750.50	20275	16OAM	5	Н	V	20.04	30.00	Pass
1752.50	20375	16QAM	ິວ	П	Н	19.29		

Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
			Lowe	est Channel				
1715.00	20000	QPSK	10	Н	V	22.25		
1715.00	20000	QPSK	10	П	Н	20.63	30.00	Pass
1715.00	20000	16QAM	10	Н	V	22.23	30.00	Fa55
1715.00	20000	TOQAW	10		Н	19.52		
			Midd	lle Channel				
1732.50	20175	QPSK	10	Н	V	22.62		
1732.50	20175	QFSK	10		Н	19.69	30.00	Pass
1732.50	20175	16QAM	10	Н	V	22.14	30.00	Fa55
1732.50	20175	IOQAW	10	П	Н	19.30		
			High	est Channe				
4750.00	20250	ODCK	40	1.1	V	22.26		
1750.00	20350	QPSK	10	Н	Н	19.34	20.00	Door
1750.00	20250	16OAM	10	Н	V	22.18	30.00	Pass
1750.00	20350	16QAM	10	П	Н	19.04		





Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
			Lowe	est Channel				
1717 50	20025	QPSK	15	Н	V	21.54		
1717.50	20025	QPSK	15	П	Н	19.62	20.00	Door
1717.50	20025	16QAM	15	Н	V	21.46	30.00	Pass
1717.50	20023	IOQAW	15	П	Н	19.32		
			Midd	de Channel				
1732.50	20175	QPSK	15	Н	V	21.64		
1732.50	20175	QFSK	13	П	Н	19.32	30.00	Pass
1732.50	20175	16QAM	15	Н	V	21.47	30.00	F 455
1732.50	20173	IOQAW	15	П	Н	19.22		
			High	est Channe				
4747.50	20225	ODCK	45	11	V	21.52		
1747.50	20325	QPSK	15	Н	Н	19.26	20.00	Daga
1747 50	20225	16OAM	15	Н	V	21.37	30.00	Pass
1747.50	20325	16QAM	15	П	Н	19.65		

Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
			Lowe	est Channel				
1720.00	20050	ODSK	20	Н	V	21.32		
1720.00	20050	QPSK	20	п	Н	19.25	20.00	Door
1720.00	20050	16OAM	20	Н	V	21.47	30.00	Pass
1720.00	20050	16QAM	20	П	Н	19.21		
			Mido	lle Channel				
1732.50	20175	QPSK	20	Н	V	21.54		
1732.50	20175	QFSK	20	П	Н	19.32	30.00	Pass
1720 FO	20175	16OAM	20	Н	V	21.15	30.00	Fa55
1732.50	20175	16QAM	20	П	Н	19.67		
			High	est Channe				
4745.00	20200	ODCK	20	1.1	V	21.57		
1745.00	20300	QPSK	20	Н	Н	19.33	20.00	Door
4745.00	20200	20200 16OAM	00		V	21.32	30.00	Pass
1745.00	20300	16QAM	20	Н	Н	19.27		





LTE band 5 part

	ETE band 5 part									
Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	ERP(dBm)	Limit (dBm)	Result		
	Lowest Channel									
824.70	20407	QPSK	1.4	Н	V	21.25				
024.70	20407	QPSK	1.4	П	Н	19.36	38.45	Pass		
824.70	20407	16QAM	1.4	Н	V	20.47	30.43	Fa55		
024.70	20407	IOQAW	1.4	П	Н	19.02				
			Midd	lle Channel						
836.50	20525	QPSK	1.4	Н	V	21.54				
630.30	20020	QFSK	1.4	Π	Н	19.25	38.45	Pass		
836.50	20525	16QAM	1.4	Н	V	20.23	30.43	F d 3 3		
630.30	20020	TOQAW	1.4	Π	Н	19.14				
			High	est Channe	1					
040.20	20642	ODSK	1 1	Н	V	21.25				
848.30	20643	QPSK	1.4		Н	19.36	20.45	Door		
848.30 20643	16QAM	1.4	Н	V	20.24	38.45	Pass			
040.30	20043	IOQAW	1.4	П	Н	19.15				

Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	ERP(dBm)	Limit (dBm)	Result
			Lowe	est Channel				
925 50	20445	QPSK	3	Н	V	21.14		
825.50	20415	QPSK	3	п	Н	19.23	20.45	Pass
825.50	20415	16QAM	3	Н	V	20.29	38.45	Pass
625.50	20413	IOQAW	3	П	Н	19.22		
			Midd	lle Channel				
836.50	20525	QPSK	3	Н	V	21.15		
630.30	20020	QFSK	3	Π	Н	19.63	38.45	Pass
926 50	20525	16QAM	3	Н	V	20.27	30.43	Fa55
836.50	20525	IOQAW	3	П	Н	19.20		
			High	est Channe				
0.47.00	20025	ODCK	2	1.1	V	21.19		
847.30	20635	QPSK	3	Н	Н	19.29	38.45	Door
847.30 20635 160	16QAM	3	Н	V	19.34	30.43	Pass	
047.30	20033	IOQAW	J	П	Н	18.25		





Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	ERP(dBm)	Limit (dBm)	Result
			Lowe	est Channel				
926 50	20425	ODSK	5	Н	V	20.58		
826.50	20425	QPSK	5	П	Н	19.24	20.45	Door
826.50	20425	16QAM	5	Н	V	20.28	38.45	Pass
020.50	20423	IOQAW	3	П	Н	19.24		
			Midd	lle Channel				
836.50	20525	QPSK	5	Н	V	20.25		
030.50	20323	QFSK	3	П	Н	19.32	38.45	Pass
836.50	20525	16QAM	5	Н	V	20.66	30.43	Pass
030.50	20323	IOQAW	3	П	Н	19.04		
			High	est Channe				
040.50	20025	ODCK	_	11	V	21.10		
846.50	20625	QPSK	5	Н	Н	19.62	20.45	Daga
946 50	20625	160414	E		V	20.03	38.45	Pass
846.50	20625	16QAM	5	Н	Н	19.24		

Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	ERP(dBm)	Limit (dBm)	Result
			Lowe	est Channel				
920.00	20450	QPSK	10	Н	V	21.03		
829.00	20450	QPSK	10	П	Н	19.25	38.45	Pass
829.00	20450	16QAM	10	Н	V	20.04	36.45	Pass
629.00	20430	IOQAW	10	П	Н	19.26		
			Midd	lle Channel				
836.50	20525	QPSK	10	Н	V	21.24		
630.30	20020	QFSK	10	Π	Н	19.30	38.45	Pass
836.50	20525	16QAM	10	Н	V	20.09	30.43	Pass
030.50	20525	IOQAW	10	П	Н	19.44		
			High	est Channe				
044.00	20000	ODCK	40	1.1	V	21.32		
844.00	20600	QPSK	10	Н	Н	20.58	38.45	Door
944.00	844.00 20600 16QAM	16OAM	10	Н	V	20.19	30.43	Pass
044.00	20000	IOQAW	10	П	Н	19.47		





LTE band 7

	ETE BAHA 7									
Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result		
Lowest Channel										
2502.50	20775	QPSK	5	Н	V	20.12				
2502.50	20775	QPSK	5	П	Н	19.02	33.00	Pass		
2502.50	20775	16QAM	5	Н	V	21.26	33.00	Fa55		
2502.50	20775	IOQAW	5	П	Н	19.75				
	Middle Channel									
2535.00	21100	QPSK	5	Н	V	19.23				
2555.00	21100	QFSK	5	Π	Н	18.25	33.00	Pass		
2535.00	21100	16QAM	5	Н	V	21.41	33.00	F d 3 3		
2555.00	21100	IOQAW	5	П	Н	19.02				
			High	est Channe						
2567.50	24.425	QPSK	5	Н	V	19.25				
2567.50	21425	QPSK	5	П	Н	18.36	22.00	Door		
2567.50	21425	16QAM	5	Н	V	21.41	33.00	Pass		
2507.50	21423	IOQAM	3	17	Н	19.06				

Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
			Lowe	est Channel				
2505.00	20000	QPSK	10	Н	V	21.03		
2505.00	20800	QPSK	10	П	Н	19.74	33.00	Pass
2505.00	20800	16QAM	10	Н	V	21.01	33.00	Pass
2505.00	20000	IOQAW	10	П	Н	19.32		
			Midd	lle Channel				
2535.00	21100	QPSK	10	Н	V	19.20		
2555.00	21100	QFSK	10	Π	Н	18.36	33.00	Pass
2535.00	21100	16QAM	10	Н	V	21.05	33.00	Pass
2535.00	21100	IOQAW	10	П	Н	19.32		
			High	est Channe				
2505.00	04.400	ODCK	40	1.1	V	19.36		
2565.00	21400	QPSK	10	Н	Н	18.52	33.00	Door
2565.00	2565.00 21400 16QAN	16OAM	10	Н	V	21.47	33.00	Pass
2505.00	21400	16QAM	10	П	Н	19.26		





Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
			Lowe	est Channel				
2507.50	20025	ODSK	15	Н	V	20.05		Door
2507.50	20825	QPSK	15	П	Н	19.32	22.00	
2507.50	20025	160AM	15	Н	V	19.47	33.00	Pass
2507.50	20825	16QAM	15	П	Н	18.95		
			Mido	lle Channel				
2525.00	21100	ODSK	15	Н	V	20.13		
2535.00	21100	QPSK	15	П	Н	19.24	33.00	Pass
2525.00	21100	160AM	15	Н	V	19.36	33.00	Fa55
2535.00	21100	16QAM	15	П	Н	18.20		
			High	est Channe				
2502.50	04075	ODCK	45	1.1	V	20.43		
2562.50	21375	QPSK	15	Н	Н	19.02	00.00	Dava
2562.50	21275 16001	1 45	Н	V	19.32	33.00	Pass	
2562.50	21375	16QAM	15		Н	18.09		

Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result		
	Lowest Channel									
2510.00	20050	ODSK	20	Н	V	19.58				
2510.00	20850	QPSK	20	П	Н	18.25	22.00	Door		
2510.00	20850	16QAM	20	Н	V	21.32	33.00	Pass		
2510.00	20000	IOQAW	20	П	Н	19.44				
			Mido	lle Channel						
2535.00	21100	QPSK	20	Н	V	19.23				
2555.00	21100	QFSK	20	П	Н	18.52	33.00	Pass		
2525.00	21100	16OAM	20	Н	V	21.40	33.00	Fa55		
2535.00	21100	16QAM	20	П	Н	19.32				
			High	est Channe	I					
2505.00	04050	ODCK	20	11	V	21.02				
2565.00	21350	QPSK	20	Н	Н	19.59	22.00	Door		
2565.00	2565 00 24250 460AM	20	Ш	V	20.45	33.00	Pass			
2565.00	21350	16QAM	20	Н	Н	19.30				





LTE band 12 part

	ETE band 12 part									
Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	ERP(dBm)	Limit (dBm)	Result		
	Lowest Channel									
699.70	23017	QPSK	1.4	Н	V	21.69				
699.70	23017	QPSK	1.4	П	Н	19.40	34.77	Pass		
699.70	23017	16QAM	1.4	Н	V	21.05	34.77	Pass		
099.70	23017	IOQAW	1.4	17	Н	19.20				
	Middle Channel									
707.50	23095	QPSK	1.4	Н	V	21.52				
707.50	23095	QF SK	1.4	11	Н	19.46	34.77	Pass		
707.50	23095	16QAM	1.4	Н	V	21.07	J4.77	F 055		
707.50	23093	IOQAW	1.4	П	Н	19.23				
			High	est Channe	<u> </u>					
715.30	23173	QPSK	1.4	Н	V	21.53				
7 10.30	23173	QFSN	1.4	П	Н	19.45	34.77	Pass		
715.30 23173	16QAM	1.4	Н	V	21.02	34.77	rass			
7 15.30	23173	IOQAW	1.4	17	Н	19.74				

Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	ERP(dBm)	Limit (dBm)	Result
			Lowe	est Channel				
700 50	22025	QPSK	3	Н	V	21.42		Dana
700.50	23025	QPSK	3	п	Н	19.32	24 77	
700.50	23025	16QAM	3	Н	V	21.04	34.77	Pass
700.50	23023	IOQAW	o	П	Н	19.05		
			Mido	lle Channel				
707.50	23095	QPSK	3	Н	V	21.45		Pass
707.50	23093	QFSK	3	Π	Н	19.26	34.77	
707.50	22005	16001	3	Н	V	21.05	34.77	Fa55
707.50	23095	16QAM	3	П	Н	19.37		
			High	est Channe				
744.50	00405	ODCK	2	1.1	V	21.62		
714.50	23165	QPSK	3	Н	Н	19.02	74 77	Door
714 50	714.50 23165 16QAM	3	- 11	V	21.47	34.77	Pass	
7 14.50	23100	TOQAM	3	Н	Н	19.32		





Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	ERP(dBm)	Limit (dBm)	Result
			Lowe	est Channel				
704 50	22025	OBSK	5	Н	V	21.54		
701.50	23035	QPSK	5	П	Н	19.36	24.77	Door
701.50	23035	16QAM	5	Н	V	21.05	34.77	Pass
701.50	23033	IOQAW	3	П	Н	19.06		
			Midd	lle Channel				
707.50	23095	QPSK	5	Н	V	21.52		Pass
707.50	23093	QFSK	3	П	Н	19.30	34.77	
707.50	23095	16QAM	5	Н	V	21.52	34.77	Pass
707.50	23093	IOQAW	3	П	Н	19.09		
			High	est Channe	I			
712.50	22455	OBSK	E	Н	V	21.20		
713.50	23155	QPSK	5	П	Н	19.32	04.77	Daga
712 50	22155	3155 16QAM			V	21.02	34.77	Pass
713.50	23155	IOWAW	5	Н	Н	19.06		

Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	ERP(dBm)	Limit (dBm)	Result
			Lowe	est Channel				
704.00	22060	QPSK	10	Н	V	21.54		
704.00	23060	QPSK	10	п	Н	19.23	34.77	Door
704.00	23060	16QAM	10	Н	V	21.05		Pass
704.00	23000	IOQAW	10	П	Н	19.39		
			Midd	lle Channel				
707.50	23095	QPSK	10	Н	V	21.52		
707.50	23093	QFSK	10	Π	Н	19.02	34.77	Pass
707.50	22005	16QAM	10	Н	V	21.03	34.77	Pass
707.50	23095	IOQAW	10	П	Н	19.41		
			High	est Channe				
744.00	22420	ODCK	40	1.1	V	21.36		
711.00	23130	QPSK	10	Н	Н	19.02	24 77	Door
711.00	23130	16QAM	10	Н	V	21.26	34.77	Pass
711.00	23130	IOQAW	10	П	Н	19.37		





LTE band 17

	ETE Dana 17							
Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	ERP(dBm)	Limit (dBm)	Result
			Lowe	est Channel				
706.50	23755	QPSK	5	, V	V	21.03	24.77	
706.50	23/33	QPSK	5	Н	Н	19.25		Pass
706.50	23755	16QAM	5	Н	V	21.32	34.77	Pass
700.50	23733	IOQAW	5	П	Н	18.69		
			Midd	lle Channel				
710.00	23790	QPSK	5	Н	V	21.26		
710.00	23790	QFSK	5	П	Н	19.67	34.77	Pass
710.00	23790	16QAM	5	Н	V	21.25	34.11	F d 3 3
710.00	23790	IOQAW	5	П	Н	18.46		
			High	est Channe	1			
712.50	22025	QPSK	5	Н	V	23.25		
713.50	23825	QPSK	5	П	Н	19.58	24.77	Door
713.50	23825	16QAM	5	Н	V	21.46	34.77	Pass
713.50	23023	IOQAW	ວ	П	Н	18.27	1	

Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	ERP(dBm)	Limit (dBm)	Result
			Lowe	est Channel				
700.00	22700	ODCK	10	Ш	V	22.26		
709.00	23780	QPSK	10	Н	Н	19.20	34.77	Door
709.00	23780	16QAM	10	Н	V	21.03		Pass
709.00	23700	IOQAW	10		Н	19.32		
			Midd	lle Channel				
710.00	23790	QPSK	10	Н	V	22.24	34.77	
710.00	23790	QFSK	10		Н	19.32		Pass
710.00	22700	16QAM	10	Н	V	21.07	34.77	Fa55
710.00	23790	IOQAW	10	П	Н	19.65		
			High	est Channe				
744.00	22000	ODCK	40	1.1	V	22.02		
711.00	23800	QPSK	10	Н	Н	19.03	24 77	Door
711.00	23800	16QAM	10	Н	V	21.26	34.77	Pass
711.00	23000	IOQAW	10	П	Н	19.67		



6.6 Field strength of spurious radiation measurement

	urious radiation measurement
Test Requirement:	Part 22.917(a), FCC Part 24.238 (a), Part 27.53(g), Part 27.53(m), Part 27.53(h)
Test Method:	ANSI/TIA-603-D 2010
Limit:	LTE Band 2 & 4 & 5 & 12 & 17: < -13dBm, LTE Band 7: < -25dBm
Test setup:	Below 1GHz Test Received Total Received Controlled Test Received Total Received Controlled Test Received Total Received Controlled
	Above 1GHz
	Artiferina Tower Graund Reformer Player Test Flooringer Test Flooringer
Test Procedure:	 The EUT was placed on an non-conductive turntable using a non-conductive support. The radiated emission at the fundamental frequency was measured at 3 m with a test antenna and EMI spectrum analyzer. During the tests, the antenna height and the EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. This maximization process was repeated with the EUT positioned in each of its three orthogonal orientations. The frequency range up to tenth harmonic was investigated for each of three fundamental frequency (low, middle and high channels). Once spurious emission was identified, the power of the emission was determined using the substitution method. The spurious emissions attenuation was calculated as the difference between radiated power at the fundamental frequency and the spurious emissions frequency. ERP / EIRP = S.G. output (dBm) + Antenna Gain(dB/dBi) - Cable Loss (dB)
Test Instruments:	Refer to section 5.8 for details
Test mode:	Refer to section 5.3 for details.
Test results:	Passed





Measurement Data:

	LTE Band 2 / 1.4	MHz / RB size 1 &	RB offset 0	
Frequency (MHz)	Spurious E		Limit (dBm)	Result
r requericy (wir iz)	Polarization	Level (dBm)	Limit (dBin)	Nesuit
		Lowest		
3701.40	Vertical	-49.01		
5552.10	V	-46.55		
7402.00	V	-42.10	-13.00	Pass
3701.40	Horizontal	-46.96	-13.00	Pass
5552.10	Н	-46.70		
7402.00	Н	-41.49		
		Middle		
3760.00	Vertical	-51.86		Pass
5640.00	V	-44.55		
7520.00	V	-42.83	-13.00	
3760.00	Horizontal	-53.64	-13.00	
5640.00	Н	-45.20		
7520.00	Н	-42.62		
		Highest		
3816.60	Vertical	-53.38		
5724.90	V	-47.46	-13.00	
7633.20	V	-43.59		Door
3816.60	Horizontal	-53.17		Pass
5724.90	Н	-47.27		
7633.20	Н	-42.42		

Note:

- 1. The emission levels of below 1 GHz are 20 dB lower than the limit so not show in this report.
- 2. For above 1 GHz, all test modes were performed, and just the worst case shown in the report.





	LTE Band 2 / 3 MHz / RB size 1 & RB offset 0						
Frequency (MHz)	Spurious	Emission	Limit (dRm)	Result			
Frequency (MHZ)	Polarization	Level (dBm)	Limit (dBm)	Result			
		Lowest					
3703.00	Vertical	-52.48					
5554.50	V	-41.60					
7406.00	V	-42.25	42.00	Dana			
3703.00	Horizontal	-46.39	-13.00	Pass			
5554.50	Н	-41.58					
7406.00	Н	-41.70					
		Middle					
3760.00	Vertical	-51.62		Pass			
5640.00	V	-46.23					
7520.00	V	-42.52	40.00				
3760.00	Horizontal	-51.70	-13.00				
5640.00	Н	-45.19					
7520.00	Н	-42.52					
		Highest					
3817.00	Vertical	-51.24					
5725.50	V	-45.37	-13.00				
7634.00	V	-42.26		Door			
3817.00	Horizontal	-52.08		Pass			
5725.50	Н	-42.19					
7634.00	Н	-41.78					

- 1. The emission levels of below 1 GHz are 20 dB lower than the limit so not show in this report.
- 2. For above 1 GHz, all test modes were performed, and just the worst case shown in the report.





	LTE Band 2 / 5	MHz / RB size 1 &	RB offset 0	
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
Frequency (IVIF12)	Polarization	Level (dBm)	Limit (dBin)	Nesuit
		Lowest		
3705.00	Vertical	-50.23		
5557.50	V	-47.62		
7410.00	V	-41.56	-13.00	Pass
3705.00	Horizontal	-45.23	-13.00	Fa55
5557.50	Н	-45.19		
7410.00	Н	-42.25		
		Middle		
3760.00	Vertical	-52.23		
5640.00	V	-43.61		
7520.00	V	-42.25	-13.00	Pass
3760.00	Horizontal	-52.47	-13.00	Pa55
5640.00	Н	-46.23		
7520.00	Н	-41.95		
		Highest		
3815.00	Vertical	-52.23		
5722.50	V	-48.62	-13.00	
7630.00	V	-42.56		Pass
3815.00	Horizontal	-52.16		F 455
5722.50	Н	-46.52		
7630.00	Н	-41.79		

- 1. The emission levels of below 1 GHz are 20 dB lower than the limit so not show in this report.
- 2. For above 1 GHz, all test modes were performed, and just the worst case shown in the report.





	LTE Band 2 / 10 MHz / RB size 1 & RB offset 0						
Eroguopov (MHz)	Spurious	Emission	Limit (dRm)	Danielt			
Frequency (MHz)	Polarization	Level (dBm)	Limit (dBm)	Result			
		Lowest					
3710.00	Vertical	-51.26					
5565.00	V	-42.52					
7420.00	V	-41.79	42.00	Door			
3710.00	Horizontal	-47.65	-13.00	Pass			
5565.00	Н	-42.25					
7420.00	Н	-42.19					
		Middle					
3760.00	Vertical	-52.56		Pass			
5640.00	V	-45.39					
7520.00	V	-41.27	40.00				
3760.00	Horizontal	-52.25	-13.00				
5640.00	Н	-46.19					
7520.00	Н	-41.78					
		Highest					
3810.00	Vertical	-51.26					
5715.00	V	-46.29	-13.00				
7620.00	V	-41.78		Dage			
3810.00	Horizontal	-51.28		Pass			
5715.00	Н	-42.17					
7620.00	Н	-42.16					

- 1. The emission levels of below 1 GHz are 20 dB lower than the limit so not show in this report.
- 2. For above 1 GHz, all test modes were performed, and just the worst case shown in the report.





	LTE Band 2 / 15	MHz / RB size 1 & I	RB offset 0	
Frequency (MHz)	Spurious I	Emission	Limit (dBm)	Result
Frequency (MHz)	Polarization	Level (dBm)	LIIIII (UDIII)	Result
		Lowest		
3715.00	Vertical	-51.23		
5572.50	V	-47.66		
7430.00	V	-42.52	-13.00	Door
3715.00	Horizontal	-44.77	-13.00	Pass
5572.50	Н	-44.26		
7430.00	Н	-43.19		
		Middle		
3760.00	Vertical	-51.26		
5640.00	V	-43.56		
7520.00	V	-42.74	42.00	Dana
3760.00	Horizontal	-51.95	-13.00	Pass
5640.00	Н	-45.26		
7520.00	Н	-42.57		
		Highest		
3805.00	Vertical	-52.16		
5707.50	V	-48.62	-13.00	
7610.00	V	-42.17		Door
3805.00	Horizontal	-52.49		Pass
5707.50	Н	-46.65		
7610.00	Н	-42.59		

- 1. The emission levels of below 1 GHz are 20 dB lower than the limit so not show in this report.
- 2. For above 1 GHz, all test modes were performed, and just the worst case shown in the report.





	LTE Band 2 / 20	0 MHz / RB size 1 8	RB offset 0	
Eroguanay (MHz)	Spurious	Emission	Limit (dPm)	Doordt
Frequency (MHz)	Polarization	Level (dBm)	Limit (dBm)	Result
		Lowest		
3720.00	Vertical	-50.88		
5580.00	V	-43.95		
7440.00	V	-42.60	-13.00	Pass
3720.00	Horizontal	-48.46	13.00	Pass
5580.00	Н	-42.87		
7440.00	Н	-42.26		
		Middle		
3760.00	Vertical	-52.86		
5640.00	V	-46.35		Pass
7520.00	V	-42.93	12.00	
3760.00	Horizontal	-52.45	-13.00	
5640.00	Н	-45.01		
7520.00	Н	-42.68		
		Highest		
3800.00	Vertical	-52.27		
5700.00	V	-46.45	-13.00	
7600.00	V	-41.59		Door
3800.00	Horizontal	-52.25		Pass
5700.00	Н	-43.88		
7600.00	Н	-41.91		

- 1. The emission levels of below 1 GHz are 20 dB lower than the limit so not show in this report.
- 2. For above 1 GHz, all test modes were performed, and just the worst case shown in the report.





LTE Band 4 / 1.4 MHz / RB size 1 & RB offset 0									
Frequency (MHz)	Spurious I	Emission	Limit (dBm)	Result					
Frequency (Wiriz)	Polarization	Level (dBm)	Lillit (dBill)	Kesuit					
		Lowest							
3421.40	Vertical	-52.52							
5132.10	V	-47.65							
6842.80	V	-42.94	-13.00	Pass					
3421.40	Horizontal	-50.20	-13.00	Pass					
5132.10	Н	-47.61							
6842.80	Н	-42.38							
	Middle								
3465.00	Vertical	-53.26							
5197.50	V	-46.39							
6930.00	V	-42.35	-13.00	Pass					
3465.00	Horizontal	-52.24	-13.00	Fa55					
5197.50	Н	-48.02							
6930.00	Н	-43.16							
		Highest							
3508.60	Vertical	-51.89							
5262.90	V	-46.50	-13.00						
7017.20	V	-43.07		Pass					
3508.60	Horizontal	-49.66		Fass					
5262.90	Н	-47.50							
7017.20	Н	-42.40							

- 1. The emission levels of below 1 GHz are 20 dB lower than the limit so not show in this report.
- 2. For above 1 GHz, all test modes were performed, and just the worst case shown in the report.





	LTE Band 4/3	MHz / RB size 1 & F	RB offset 0	
Fraguency (MUz)	Spurious I	Emission	Limit (dPm)	Result
Frequency (MHz)	Polarization	Level (dBm)	Limit (dBm)	Result
		Lowest		
3423.00	Vertical	-50.26		
5134.50	V	-48.69		
6846.00	V	-45.26	-13.00	Door
3423.00	Horizontal	-46.17	-13.00	Pass
5134.50	Н	-45.98		
6846.00	Н	-46.22		
		Middle		
3465.00	Vertical	-52.15		
5197.50	V	-46.23		
6930.00	V	-41.78	40.00	Dana
3465.00	Horizontal	-49.95	-13.00	Pass
5197.50	Н	-48.22		
6930.00	Н	-41.39		
		Highest		
3507.00	Vertical	-52.20		
5260.50	V	-46.29	-13.00	
7014.00	V	-45.39		Door
3507.00	Horizontal	-46.62		Pass
5260.50	Н	-46.59		
7014.00	Н	-47.51		

- 1. The emission levels of below 1 GHz are 20 dB lower than the limit so not show in this report.
- 2. For above 1 GHz, all test modes were performed, and just the worst case shown in the report.





LTE Band 4 / 5 MHz / RB size 1 & RB offset 0						
Frequency (MHz)	Spurious Emission		Limit (dDm)	Result		
	Polarization	Level (dBm)	Limit (dBm)	Result		
		Lowest				
3425.00	Vertical	-51.26	-13.00	Pass		
5137.50	V	-46.32				
6850.00	V	-41.55				
3425.00	Horizontal	-49.23				
5137.50	Н	-46.17				
6850.00	Н	-41.52				
		Middle				
3465.00	Vertical	-52.24	-13.00			
5197.50	V	-46.21		Pass		
6930.00	V	-41.57				
3465.00	Horizontal	-51.49				
5197.50	Н	-48.52				
6930.00	Н	-42.19				
		Highest				
3505.00	Vertical	-52.23	-13.00	Pass		
5257.50	V	-45.26				
7010.00	V	-42.58				
3505.00	Horizontal	-50.49				
5257.50	Н	-46.51				
7010.00	Н	-42.17				

- 1. The emission levels of below 1 GHz are 20 dB lower than the limit so not show in this report.
- 2. For above 1 GHz, all test modes were performed, and just the worst case shown in the report.





LTE Band 4 / 10 MHz / RB size 1 & RB offset 0							
Frequency (MHz)	Spurious Emission		Limit (dPm)	Result			
	Polarization	Level (dBm)	Limit (dBm)	Result			
Lowest							
3430.00	Vertical	-49.32	-13.00	Pass			
5145.00	V	-48.26					
6860.00	V	-46.18					
3430.00	Horizontal	-45.25					
5145.00	Н	-46.71					
6860.00	Н	-46.29					
Middle							
3465.00	Vertical	-52.25	-13.00	Pass			
5197.50	V	-46.23					
6930.00	V	-42.17					
3465.00	Horizontal	-49.52					
5197.50	Н	-48.26					
6930.00	Н	-41.78					
Highest							
3500.00	Vertical	-51.26	-13.00	Pass			
5250.00	V	-46.25					
7000.00	V	-45.29					
3500.00	Horizontal	-46.78					
5250.00	Н	-46.59					
7000.00	Н	-46.19					

- 1. The emission levels of below 1 GHz are 20 dB lower than the limit so not show in this report.
- 2. For above 1 GHz, all test modes were performed, and just the worst case shown in the report.





	LTE Band 4 / 15	MHz / RB size 1 &	RB offset 0	
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
Frequency (MIDZ)	Polarization	Level (dBm)	LIIIII (UDIII)	Result
		Lowest		
3435.00	Vertical	-52.26		
5152.50	V	-47.62		
6870.00	V	-42.25	-13.00	Pass
3435.00	Horizontal	-47.62	-13.00	Pass
5152.50	Н	-45.29		
6870.00	Н	-42.18		
		Middle		
3465.00	Vertical	-52.23		
5197.50	V	-46.89		Door
6930.00	V	-42.15	42.00	
3465.00	Horizontal	-51.47	-13.00	Pass
5197.50	Н	-47.62		
6930.00	Н	-41.22		
		Highest		
3495.00	Vertical	-52.29		
5242.50	V	-45.62		
6990.00	V	-42.17	-13.00	Door
3495.00	Horizontal	-49.62		Pass
5242.50	Н	-45.17		
6990.00	Н	-42.19		

- 1. The emission levels of below 1 GHz are 20 dB lower than the limit so not show in this report.
- 2. For above 1 GHz, all test modes were performed, and just the worst case shown in the report.





	LTE Band 4 / 20	MHz / RB size 1 &	RB offset 0	
Fraguency (MUz)	Spurious Emission		Limit (dBm)	Result
Frequency (MHz)	Polarization	Level (dBm)	LIIIII (UDIII)	Result
		Lowest		
3440.00	Vertical	-51.26		
5160.00	V	-47.62		
6880.00	V	-45.29	-13.00	Door
3440.00	Horizontal	-46.32	-13.00	Pass
5160.00	Н	-47.52		
6880.00	Н	-47.19		
		Middle		
3465.00	Vertical	-51.23		Door
5197.50	V	-46.25		
6930.00	V	-41.57	42.00	
3465.00	Horizontal	-50.12	-13.00	Pass
5197.50	Н	-49.23		
6930.00	Н	-42.29		
		Highest		<u>.</u>
3490.00	Vertical	-52.16		
5235.00	V	-47.85	-13.00	
6980.00	V	-46.29		Door
3490.00	Horizontal	-47.11		Pass
5235.00	Н	-45.20		
6980.00	Н	-46.03		

- 1. The emission levels of below 1 GHz are 20 dB lower than the limit so not show in this report.
- 2. For above 1 GHz, all test modes were performed, and just the worst case shown in the report.





	LTE Band 5 / 1.	4 MHz / RB size 1 8	RB offset 0	
Fraguency (MUz)	Spurious Emission		Limit (dPm)	Result
Frequency (MHz)	Polarization	Level (dBm)	Limit (dBm)	Result
		Lowest		
1649.40	Vertical	-59.87		
2474.10	V	-49.02		
3298.80	V	-54.45	40.00	Dana
1649.40	Horizontal	-60.88	-13.00	Pass
2474.10	Н	-50.99	_	
3298.80	Н	-54.22	_	
		Middle		
1673.00	Vertical	-60.29		Pass
2509.50	V	-58.36		
3346.00	V	-51.69	40.00	
1673.00	Horizontal	-57.66	-13.00	
2509.50	Н	-51.20	_	
3346.00	Н	-51.63		
		Highest		
1696.60	Vertical	-58.56		
2544.90	V	-46.26	_	
3393.20	V	-51.48	-13.00	Daga
1696.60	Horizontal	-58.98		Pass
2544.90	Н	-42.56		
3393.20	Н	-41.33	1	

- 1. The emission levels of below 1 GHz are 20 dB lower than the limit so not show in this report.
- 2. For above 1 GHz, all test modes were performed, and just the worst case shown in the report.





	LTE Band 5 / 3	MHz / RB size 1 & R	RB offset 0	
Fraguency (MHz)	Spurious Emission		Limit (dRm)	Result
Frequency (MHz)	Polarization	Level (dBm)	Limit (dBm)	Result
		Lowest		
1651.00	Vertical	-59.22		
2476.50	V	-46.32		
3302.00	V	-51.44	-13.00	Door
1651.00	Horizontal	-59.95	-13.00	Pass
2476.50	Н	-41.58		
3302.00	Н	-42.26		
<u>.</u>		Middle		·
1673.00	Vertical	-60.29		Pass
2509.50	V	-47.30		
3346.00	V	-51.26	-13.00	
1673.00	Horizontal	-60.69	-13.00	Pass
2509.50	Н	-52.20		
3346.00	Н	-41.76		
		Highest		
1695.00	Vertical	-59.23		
2542.50	V	-46.13		
3390.00	V	-52.06	-13.00	Door
1695.00	Horizontal	-59.20		Pass
2542.50	Н	-51.44		
3390.00	Н	-52.06		

- 1. The emission levels of below 1 GHz are 20 dB lower than the limit so not show in this report.
- 2. For above 1 GHz, all test modes were performed, and just the worst case shown in the report.





	LTE Band 5 / 5	MHz / RB size 1 &	RB offset 0	
Erogueney (MUz)	Spurious Emission		Limit (dRm)	Result
Frequency (MHz)	Polarization	Level (dBm)	Limit (dBm)	Result
		Lowest		
1653.00	Vertical	-60.25		
2479.50	V	-48.21		
3306.00	V	-53.20	42.00	Door
1653.00	Horizontal	-59.23	-13.00	Pass
2479.50	Н	-51.43		
3306.00	Н	-53.19		
		Middle		
1673.00	Vertical	-59.23		Pass
2509.50	V	-47.23		
3346.00	V	-52.26	40.00	
1673.00	Horizontal	-58.90	-13.00	
2509.50	Н	-52.19		
3346.00	Н	-52.75		
		Highest		
1693.00	Vertical	-58.23		
2539.50	V	-47.26		
3386.00	V	-51.62	-13.00	Dana
1693.00	Horizontal	-58.95		Pass
2539.50	Н	-42.56		
3386.00	Н	-41.76		

- 1. The emission levels of below 1 GHz are 20 dB lower than the limit so not show in this report.
- 2. For above 1 GHz, all test modes were performed, and just the worst case shown in the report.





	LTE Band 5 / 10	MHz / RB size 1 &	RB offset 0			
Frequency (MHz)	Spurious I		Limit (dBm)	Result		
Frequency (IVIF12)	Polarization	Level (dBm)	Limit (dBin)	Nesuit		
	Lowest					
1658.00	Vertical	-60.20				
2487.00	V	-46.29				
3316.00	V	-51.32	-13.00	Pass		
1658.00	Horizontal	-60.48	- 13.00	Pa55		
2487.00	Н	-42.17				
3316.00	Н	-42.26				
		Middle				
1673.00	Vertical	-59.23		Pass		
2509.50	V	-46.25				
3346.00	V	-52.25	-13.00			
1673.00	Horizontal	-59.24	-13.00	Pa55		
2509.50	Н	-51.27				
3346.00	Н	-51.46				
		Highest				
1688.00	Vertical	-60.23				
2532.00	V	-47.19				
3376.00	V	-52.05	-13.00	Pass		
1688.00	Horizontal	-60.25	-13.00	Fass		
2532.00	Н	-52.23				
3376.00	Н	-53.90				

- 1. The emission levels of below 1 GHz are 20 dB lower than the limit so not show in this report.
- 2. For above 1 GHz, all test modes were performed, and just the worst case shown in the report.





	LTE Band 7 / 5	MHz / RB size 1 &	RB offset 0	
Erogueney (MUz)	Spurious	Emission	Limit (dRm)	Result
Frequency (MHz)	Polarization	Level (dBm)	Limit (dBm)	Result
		Lowest		
5005.00	Vertical	-48.80		
7507.50	V	-43.38		
10010.00	V	-40.94	25.00	Door
5005.00	Horizontal	-49.49	-25.00	Pass
7507.50	Н	-42.85		
10010.00	Н	-41.40		
		Middle		
5070.00	Vertical	-48.88		Pass
7605.00	V	-43.31		
10140.00	V	-40.21	05.00	
5070.00	Horizontal	-48.05	-25.00	
7605.00	Н	-42.13		
10140.00	Н	-40.02		
		Highest		
5135.00	Vertical	-49.10		
7702.50	V	-41.34		
10270.00	V	-40.75	-25.00	Dage
5135.00	Horizontal	-48.58		Pass
7702.50	Н	-42.86		
10270.00	Н	-40.81		

- 1. The emission levels of below 1 GHz are 20 dB lower than the limit so not show in this report.
- 2. For above 1 GHz, all test modes were performed, and just the worst case shown in the report.





	LTE Band 7 / 10	0 MHz / RB size 1 8	RB offset 0	
Fraguenov (MHz)	Spurious	Spurious Emission		Result
Frequency (MHz)	Polarization	Level (dBm)	Limit (dBm)	Result
		Lowest		
5010.00	Vertical	-47.20	-	
7515.00	V	-42.10		
10020.00	V	-45.39	25.00	Dese
5010.00	Horizontal	-41.25	-25.00	Pass
7515.00	Н	-39.20		
10020.00	Н	-40.11		
		Middle		
5070.00	Vertical	-49.23		Pass
7605.00	V	-41.66		
10140.00	V	-42.58	05.00	
5070.00	Horizontal	-46.31	-25.00	
7605.00	Н	-42.77		
10140.00	Н	-39.26		
		Highest		
5130.00	Vertical	-45.29		
7695.00	V	-42.26		
10260.00	V	-46.32	-25.00	Door
5130.00	Horizontal	-42.10		Pass
7695.00	Н	-39.26		
10260.00	Н	-40.99		

- 1. The emission levels of below 1 GHz are 20 dB lower than the limit so not show in this report.
- 2. For above 1 GHz, all test modes were performed, and just the worst case shown in the report.





LTE Band 7 / 15 MHz / RB size 1 & RB offset 0						
Frequency (MHz)	Spurious E	mission	Limit (dBm)	Result		
Frequency (Miriz)	Polarization	Level (dBm)	Limit (dBm)	Result		
	Lowest					
5015.00	Vertical	-47.32				
7522.50	V	-42.56				
10030.00	V	-41.26	-25.00	Pass		
5015.00	Horizontal	-49.62	-25.00	Fa55		
7522.50	Н	-42.22				
10030.00	Н	-41.30				
		Middle				
5070.00	Vertical	-47.69		Pass		
7605.00	V	-42.56				
10140.00	V	-40.19	-25.00			
5070.00	Horizontal	-47.62	-25.00	Fa55		
7605.00	Н	-42.25				
10140.00	Н	-39.69				
		Highest				
5125.00	Vertical	-49.26				
7687.50	V	-42.58				
10250.00	V	-40.19	-25.00	Pass		
5125.00	Horizontal	-47.95	-25.00	F 455		
7687.50	Н	-41.66				
10250.00	Н	-40.25				

- 1. The emission levels of below 1 GHz are 20 dB lower than the limit so not show in this report.
- 2. For above 1 GHz, all test modes were performed, and just the worst case shown in the report.





	LTE Band 7 / 20	OMHz / RB size 1 8	RB offset 0	
Fraguency (MHz)	Spurious Emission		Limit (dRm)	Result
Frequency (MHz)	Polarization	Level (dBm)	Limit (dBm)	Result
		Lowest		
5020.00	Vertical	-46.29		
7530.00	V	-42.26		
10040.00	V	-46.87	25.00	Dese
5020.00	Horizontal	-42.25	-25.00	Pass
7530.00	Н	-40.19		
10040.00	Н	-39.30		
		Middle		
5070.00	Vertical	-50.23		Pass
7605.00	V	-41.63		
10140.00	V	-42.86	05.00	
5070.00	Horizontal	-47.21	-25.00	
7605.00	Н	-41.79		
10140.00	Н	-40.98		
		Highest		
5120.00	Vertical	-46.03		
7680.00	V	-41.57		
10240.00	V	-45.95	-25.00	Door
5120.00	Horizontal	-41.67		Pass
7680.00	Н	-39.62		
10240.00	Н	-40.19		

- 1. The emission levels of below 1 GHz are 20 dB lower than the limit so not show in this report.
- 2. For above 1 GHz, all test modes were performed, and just the worst case shown in the report.





	LTE Band 12 / 1.	4 MHz / RB size 1 &	RB offset 0	
Frequency (MHz)	Spurious I	Emission	Limit (dBm)	Result
Frequency (MHz)	Polarization	Level (dBm)	LIIIII (UDIII)	Result
		Lowest		
1399.40	Vertical	-61.75		
2099.10	V	-56.81		
2798.80	V	-56.87	-13.00	Door
1399.40	Horizontal	-49.21	-13.00	Pass
2099.10	Н	-57.19		
2798.80	Н	-56.55		
		Middle		·
1415.00	Vertical	-60.81		Door
2122.50	V	-55.17		
2830.00	V	-54.80	42.00	
1415.00	Horizontal	-61.06	-13.00	Pass
2122.50	Н	-54.49		
2830.00	Н	-56.14		
		Highest		·
1430.60	Vertical	-54.89		
2145.90	V	-59.63	-13.00	
2861.20	V	-55.85		Doos
1430.60	Horizontal	-56.68		Pass
2145.90	Н	-59.16		
2861.20	Н	-55.97		

- 1. The emission levels of below 1 GHz are 20 dB lower than the limit so not show in this report.
- 2. For above 1 GHz, all test modes were performed, and just the worst case shown in the report.





	LTE Band 12 / 3	BMHz/RB size 1 &	RB offset 0	
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
Frequency (MIFIZ)	Polarization	Level (dBm)		Nesuit
		Lowest		
1401.00	Vertical	-61.23	40.00	
2101.50	V	-54.25		
2802.00	V	-52.26		Pass
1401.00	Horizontal	-51.34	-13.00	Pass
2101.50	Н	-52.97		
2802.00	Н	-53.98		
		Middle		<u>.</u>
1415.00	Vertical	-52.19		
2122.50	V	-59.32		
2830.00	V	-52.26	-13.00	Pass
1415.00	Horizontal	-54.69	-13.00	Pass
2122.50	Н	-58.23		
2830.00	Н	-54.17		
		Highest		
1429.00	Vertical	-51.33		
2143.50	V	-59.62		
2858.00	V	-52.24	-13.00	Pass
1429.00	Horizontal	-54.16		Pass
2143.50	Н	-57.64		
2858.00	Н	-52.19		

- 1. The emission levels of below 1 GHz are 20 dB lower than the limit so not show in this report.
- 2. For above 1 GHz, all test modes were performed, and just the worst case shown in the report.





LTE Band 12 / 5 MHz / RB size 1 & RB offset 0				
Eroguopov (MUz)	Spurious	Emission	Limit (dRm)	Result
Frequency (MHz)	Polarization	Level (dBm)	Limit (dBm)	Result
		Lowest		
1403.00	Vertical	-62.25		
2104.50	V	-57.34		
2806.00	V	-56.19	42.00	Door
1403.00	Horizontal	-49.55	-13.00	Pass
2104.50	Н	-56.23	_	
2806.00	Н	-54.77	_	
		Middle		
1415.00	Vertical	-59.20		
2122.50	V	-54.95	_	
2830.00	V	-53.62	40.00	Dese
1415.00	Horizontal	-62.27	-13.00	Pass
2122.50	Н	-52.25		
2830.00	Н	-54.17	_	
		Highest		
1427.00	Vertical	-53.26		
2410.50	V	-60.17	1	
2854.00	V	-54.21	42.00	Dana
1427.00	Horizontal	-55.29	-13.00	Pass
2410.50	Н	-58.66		
2854.00	Н	-55.65		

- 1. The emission levels of below 1 GHz are 20 dB lower than the limit so not show in this report.
- 2. For above 1 GHz, all test modes were performed, and just the worst case shown in the report.





	LTE Band 12 / 1	0 MHz / RB size 1 &	RB offset 0	
Frequency (MHz)	Spurious I	Emission	Limit (dRm)	Result
Frequency (MHZ)	Polarization	Level (dBm)	Limit (dBm)	Result
		Lowest		
1408.00	Vertical	-60.25		
2112.00	V	-54.23		
2816.00	V	-53.69	-13.00	Pass
1408.00	Horizontal	-62.25	-13.00	F455
2112.00	Н	-51.46		
2816.00	Н	-54.79		
		Middle		
1415.00	Vertical	-52.23		
2122.50	V	-60.40		
2830.00	V	-54.90	-13.00	Pass
1415.00	Horizontal	-55.26	-13.00	Pass
2122.50	Н	-58.21		
2830.00	Н	-54.31		
		Highest		
1422.00	Vertical	-52.26		
2133.00	V	-59.34		
2844.00	V	-53.19	-13.00	Pass
1422.00	Horizontal	-54.96	-13.00	Pass
2133.00	Н	-58.25		
2844.00	Н	-53.49		

- 1. The emission levels of below 1 GHz are 20 dB lower than the limit so not show in this report.
- 2. For above 1 GHz, all test modes were performed, and just the worst case shown in the report.





LTE Band 17 / 5 MHz / RB size 1 & RB offset 0					
Frequency (MHz)	Spurious E		Limit (dBm)	Result	
Frequency (IVIF12)	Polarization	Level (dBm)	Limit (dBm)	Kesuit	
		Lowest			
1413.00	Vertical	-57.17			
2119.50	V	-56.15			
2826.00	V	-56.62	-13.00	Pass	
1413.00	Horizontal	-59.79	-13.00	Fa55	
2119.50	Н	-54.92			
2826.00	Н	-56.29			
		Middle			
1420.00	Vertical	-62.18			
2130.00	V	-56.88			
2840.00	V	-56.35	-13.00	Pass	
1420.00	Horizontal	-61.79	-13.00	Fa55	
2130.00	Н	-57.65			
2840.00	Н	-56.13			
		Highest			
1427.00	Vertical	-61.53			
2140.50	V	-54.48			
2854.00	V	-55.30	-13.00	Pass	
1427.00	Horizontal	-57.94	-13.00	Fass	
2140.50	Н	-56.78			
2854.00	Н	-56.13			

- 1. The emission levels of below 1 GHz are 20 dB lower than the limit so not show in this report.
- 2. For above 1 GHz, all test modes were performed, and just the worst case shown in the report.





LTE Band 17 / 10 MHz / RB size 1 & RB offset 0				
Frequency (MHz)	Spurious	Emission	Limit (dBm)	Result
Frequency (IVIF12)	Polarization	Level (dBm)	Lillit (dBill)	Kesuit
		Lowest		
1418.00	Vertical	-56.26		
2127.00	V	-55.29		
2836.00	V	-56.95	-13.00	Pass
1418.00	Horizontal	-60.23	-13.00	Fa55
2127.00	Н	-54.17		
2836.00	Н	-56.22		
		Middle		
1420.00	Vertical	-62.21		
2130.00	V	-56.38		
2840.00	V	-56.24	-13.00	Pass
1420.00	Horizontal	-62.17	-13.00	Fa55
2130.00	Н	-56.98		
2840.00	Н	-56.42		
		Highest		
1422.00	Vertical	-60.29		
2133.00	V	-53.62		
2844.00	V	-54.17	-13.00	Pass
1422.00	Horizontal	-56.68	-13.00	F a 5 5
2133.00	Н	-55.23		
2844.00	Н	-54.79		

- 1. The emission levels of below 1 GHz are 20 dB lower than the limit so not show in this report.
- 2. For above 1 GHz, all test modes were performed, and just the worst case shown in the report.



6.7 Frequency stability V.S. Temperature measurement

Test Requirement:	Part 22.355, Part 24.235, Part 27.54, Part 2.1055(a)(1)(b)
Test Method:	ANSI/TIA-603-D 2010
Limit:	±2.5ppm
Test setup:	SS Divider Temperature & Humidity Chamber Power Source
Test procedure:	 The equipment under test was connected to an external DC power supply and input rated voltage. RF output was connected to a frequency counter or spectrum analyzer via feed through attenuators. The EUT was placed inside the temperature chamber. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and measure EUT 25°C operating frequency as reference frequency. Turn EUT off and set the chamber temperature to -30°C. After the temperature stabilized for approximately 30 minutes recorded the frequency. Repeat step measure with 10°C increased per stage until the highest temperature of +50°C reached
Test Instruments:	Refer to section 5.8 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed





Measurement Data:

Reference I	Frequency: LTE Band	2 (10MHz) Middle	channel=18900	channel=1880.00)MHz
Power supplied	Temperature (°C)	Frequen	cy error	Lineit (mana)	Danult
(Vdc)	remperature (C)	Hz	ppm	Limit (ppm)	Result
QPSK					
	-30	198	0.105319		
	-20	171	0.090957		
	-10	180	0.095745		
	0	132	0.070213		
3.80	10	165	0.087766	±2.5	Pass
	20	145	0.077128	-	
	30	102	0.054255		
	40	114	0.060638		
	50	150	0.079787		
		16QAM			
	-30	193	0.102660		
	-20	126	0.067021		
	-10	133	0.070745		l
	0	141	0.075000		
3.80	10	171	0.090957	±2.5	Pass
	20	180	0.095745]	
	30	166	0.088298	1	
	40	158	0.084043]	
	50	177	0.094149		

Note: Only the worst case shown in the report.





Reference Frequency: LTE Band 4 (10MHz) Middle channel=20175 channel=1732.50MHz					
Power supplied	Temperature (°C)	Frequen	cy error	Limit (ppm)	Result
(Vdc)	Temperature (C)	Hz	ppm	Limit (ppin)	Nesuit
		QPSK			
	-30	199	0.114863		
	-20	123	0.070996		
	-10	165	0.095238		
	0	180	0.103896		
3.80	10	174	0.100433	±2.5	Pass
0.00	20	141	0.081385		
	30	102	0.058874		
	40	133	0.076768		
	50	108	0.062338		
		16QAM			
	-30	197	0.113709		
	-20	123	0.070996		
	-10	132	0.076190		
	0	151	0.087157		
3.80	10	161	0.092929	±2.5	Pass
0.00	20	148	0.085426	-2.0	1 455
	30	104	0.060029		
	40	179	0.103319		
	50	109	0.062915		





Reference Frequency: LTE Band 5 (10MHz) Middle channel=20525 channel=836.50MHz					
Power supplied	Temperature (°C)	Frequen	cy error	Limit (ppm)	Result
(Vdc)	remperature (C)	Hz	ppm	сини (ррин)	Result
		QPSK			
	-30	193	0.230723		
	-20	132	0.157800		
	-10	160	0.191273		
	0	141	0.168559		
3.80	10	180	0.215182	±2.5	Pass
	20	129	0.154214		
	30	177	0.211596		
	40	100	0.119546		
	50	126	0.150628		
		16QAM			
	-30	190	0.227137		
	-20	123	0.147041		
	-10	133	0.158996		
	0	148	0.176928		
3.80	10	170	0.203228	±2.5	Pass
3.00	20	126	0.150628	<u></u>	1 400
	30	158	0.188882		
	40	113	0.135087		
	50	100	0.119546		





Reference Frequency: LTE Band 7 (10MHz) Middle channel=21100Frequency=2535.00MHz					
Power supplied	Temperature (°C)	Frequen	cy error	Limit (nnm)	Result
(Vdc)	Temperature (e)	Hz	ppm	Limit (ppm)	Nesuit
		QPSK			
	-30	197	0.077712		
	-20	151	0.059566		
	-10	168	0.066272		
	0	133	0.052465		
3.80	10	148	0.058383	±2.5	Pass
	20	101	0.039842		
	30	126	0.049704		
	40	138	0.054438		
	50	100	0.039448		
		16QAM			
	-30	193	0.076134		
	-20	165	0.065089		
	-10	123	0.048521		
	0	134	0.052860		
3.80	10	107	0.042209	±2.5	Pass
	20	180	0.071006		
	30	177	0.069822		
	40	144	0.056805		
	50	109	0.042998		





Reference Frequency: LTE Band 12 (10MHz) Middle channel=23095Frequency=707.50MHz					
Power supplied		Frequen	Frequency error		Result
(Vdc)		Hz	ppm	Limit (ppm)	Kesuit
		QPSK			
	-30	195	0.275618		
	-20	122	0.172438		
	-10	188	0.265724		
	0	174	0.245936		
3.80	10	165	0.233216	±2.5	Pass
0.00	20	144	0.203534		
	30	102	0.144170		
	40	136	0.192226		
	50	151	0.213428		
		16QAM			
	-30	190	0.268551		
	-20	121	0.171025]	
	-10	146	0.206360		
	0	171	0.241696		
3.80	10	180	0.254417	±2.5	Pass
3.00	20	132	0.186572		1 400
	30	102	0.144170	1	
	40	115	0.162544	1	
	50	162	0.228975	1	





Reference	Frequency: LTE Band	17(10MHz) Middl	e channel=23790	channel=710.00	MHz
Power supplied	Temperature (°C) -	Frequency error		Limit (ppm)	Result
(Vdc)		Hz	ppm	Еппи (ррпі)	Nesuit
		QPSK			
	-30	193	0.271831		
	-20	121	0.170423		
	-10	165	0.232394		
	0	141	0.198592		
3.80	10	108	0.152113	±2.5	Pass
0.00	20	177	0.249296		
	30	180	0.253521		
	40	168	0.236620		
	50	101	0.142254		
		16QAM			
	-30	191	0.269014		
	-20	121	0.170423		
	-10	148	0.208451		
	0	177	0.249296		
3.80	10	126	0.177465	±2.5	Pass
3.00	20	133	0.187324		1 000
	30	158	0.222535	1	
	40	100	0.140845	1	
	50	164	0.230986	-	





6.8 Frequency stability V.S. Voltage measurement

Test Requirement:	Part 22.355, Part 24.235, Part 27.54, Part 2.1055(d)(2)
Test Method:	ANSI/TIA-603-D 2010
Limit:	±2.5ppm
Test setup:	SS Divider SA Temperature & Humidity Chamber
Test procedure:	 Set chamber temperature to 25°C. Use a variable DC power source to power the EUT and set the voltage to rated voltage. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and recorded the frequency. Reduce the input voltage to specify extreme voltage variation (+/-15%) and endpoint, record the maximum frequency change.
Test Instruments:	Refer to section 5.8 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed



Measurement Data:

Reference Frequency: LTE Band 2(10MHz) Middle channel=18900 channel=1880.00MHz						
Temperature (°C)	Power supplied	Frequer	ncy error	Limit (none)		
remperature (C)	(Vdc)	Hz	ppm	Limit (ppm)	Result	
		QPSK				
	4.35	95	0.050532			
25	3.80	80	0.042553	±2.5	Pass	
	3.50	74	0.039362			
16QAM						
	4.35	84	0.044681			
25	3.80	96	0.051064	±2.5	Pass	
	3.50	60	0.031915			

Note: Only the worst case shown in the report.

Reference Frequency: LTE Band 4(10MHz) Middle channel=20175 channel=1732.50MHz						
Temperature (°C)	Power supplied		ncy error	Limit (ppm) Result		
	(Vdc)	Hz	ppm		rtoodit	
		QPSK				
	4.35	80	0.046176			
25	3.80	95	0.054834	±2.5	Pass	
	3.50	96	0.055411			
16QAM						
	4.35	84	0.048485			
25	3.80	90	0.051948	±2.5	Pass	
	3.50	65	0.037518]		

Note: Only the worst case shown in the report.

Reference Frequency: LTE Band 5(10MHz) Middle channel=20525 channel=836.50MHz								
Temperature (°C)	Power supplied		ncy error	Limit (ppm)	Result			
: 5p 5. at a. 5 (°)	(Vdc)	Hz	ppm	Limit (ppm)	1/63uit			
	QPSK							
	4.35	99	0.118350					
25	3.80	80	0.095637	±2.5	Pass			
	3.50	74	0.088464		<u> </u>			
16QAM								
	4.35	58	0.069337					
25	3.80	97	0.115959	±2.5	Pass			
	3.50	77	0.092050					

Note: Only the worst case shown in the report.





Reference Frequency: LTE Band 7(10MHz) Middle channel=21100 Frequency=2535.00MHz						
Temperature (°C)	Power supplied	•	ncy error	Limit (ppm) Res		
. , ,	(Vdc)	Hz QPSK	ppm			
		QFSN		ı		
	4.35	80	0.031558			
25	3.80	75	0.029586	±2.5	Pass	
	3.50	96	0.037870			
16QAM						
	4.35	65	0.025641			
25	3.80	90	0.035503	±2.5	Pass	
	3.50	74	0.029191			

Reference Frequency: LTE Band 12(10MHz) Middle channel=23095 Frequency=707.50MHz						
Temperature (°C)	Power supplied		ncy error	Limit (ppm) Result		
remperators (e)	(Vdc)	Hz	ppm	Ешти (ррпп)	Kesuit	
		QPSK				
	4.35	84	0.118728			
25	3.80	93	0.131449	±2.5	Pass	
	3.50	57	0.080565			
16QAM						
	4.35	88	0.124382			
25	3.80	90	0.127208	±2.5	Pass	
	3.50	64	0.090459			

Note: Only the worst case shown in the report.

Reference Frequency: LTE Band 17(10MHz) Middle channel=23790 channel=710.00MHz						
Temperature (°C)	Power supplied		ncy error Limit (ppm)		Result	
(Vdc) Hz ppm Limit (ppm) Result						
	4.35	88	0.123944			
25	3.80	74	0.104225	±2.5	Pass	
	3.50	69	0.097183			
16QAM						
	4.35	90	0.126761			
25	3.80	48	0.067606	±2.5	Pass	
	3.50	68	0.095775]		

Note: Only the worst case shown in the report.