



6.10 ERP, EIRP Measurement

Test Requirement:	24.232 (c), part 27.50(c), part 27.50(d), part 27.50 (h)
Test Method:	FCC part2.1046
Limit:	LTE Band 2: 2W EIRP LTE Band 4: 1W EIRP LTE Band 7: 2W EIRP LTE Band 17: 3W EIRP
Test setup:	Below 1GHz
	Antenna Tower Search Antenna RF Test Receiver Tum Table Antenna Tower Antenna RF Test Receiver Antenna Receiver Antenna Receiver Antenna Receiver Antenna Antenna Spectrum Antenna Spectr
	Substituted method:
	Ground plane d: distance in meters d: 3 meter I -4 meter S.G. Substituted Dipole or Horn Antenna Bi-Log Antenna or Horn Antenna





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) 4. 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)
	5. 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 (worst case):

LTE band 2 part

Lowest channel

Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result				
	1.4MHz(RB size 1 & RB offset 0)											
1850.70	18607	QPSK	1.4	Н	V	22.33						
1650.70	10007	QPSK	1.4	П	Н	18.81	33.00	Pass				
1850.70	18607	16QAM	1.4	Н	V	22.30	33.00	rass				
1650.70	10007	IOQAW	1.4	П	Н	18.78						
	1.4MHz(RB size 3 & RB offset 0)											
1050.70	10607	ODSK	1.4	Н	V	22.28						
1850.70	18607	QPSK	1.4		Н	18.65	33.00	Pass				
1850.70	18607	16QAM	1.4	Н	V	22.43	33.00	Fa55				
1650.70	10007	TOQAW	1.4		Н	18.75						
		1.	4MHz(RB s	size 6 & RB	offset 0)							
4050.70	40007	ODCK	4.4		V	21.32						
1850.70	18607	QPSK	1.4	Н	Н	17.64	22.00	Door				
1950.70	10607	160 A M	4.4	4.4	1 4 4	Н	V	21.29	33.00	Pass		
1850.70	18607	16QAM	1.4		Н	17.71						

Middle channel

	Middle Channel										
Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result			
	1.4MHz(RB size 1 & RB offset 0)										
1880.00	18900	QPSK	1.4	Н	V	22.18					
1000.00	16900	QFSN	1.4	П	Н	18.72	33.00	Pass			
1880.00	18900	16QAM	1.4	Н	V	22.23	33.00	rass			
1000.00	10300	TOQAW	1.4	!!	Н	18.37					
	1.4MHz(RB size 3 & RB offset 0)										
1880.00	18900	QPSK	1.4	Н	V	22.39					
1000.00	10900	QFOR	1.4	11	Н	18.31	33.00	Pass			
1880.00	18900	16QAM	1.4	Н	V	22.35	33.00	1 833			
1000.00	10300	TOQAW	1		Н	18.30					
		1.4	4MHz(RB	size 6 & RE	3 offset 0)						
1880.00	18900	QPSK	1.40	Н	V	21.17					
1000.00	10300	QI OIX	1.40	11	Н	17.75	33.00	Pass			
1880.00	18900	16QAM	1.40	Н	V	21.41	55.00	1 433			
1000.00	10900	IOQAW	1.40	''	Н	17.91					



Highest channel

Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result		
			1.4MHz(RE	3 size 1 & F	RB offset 0)					
1909.30	19193	QPSK	1.4	Н	V	22.18				
1909.30	19193	QFSK	1.4	11	Н	18.85	33.00	Pass		
1909.30	19193	16QAM	1 1	1.4 H	V	22.72	33.00	Fa55		
1909.50	19193	IOQAW	1.4 H		Н	18.91	1			
	1.4MHz(RB size 3 & RB offset 0)									
4000 20	40400	ODCK		4.4	V	22.17		Doco		
1909.30	19193	QPSK	1.4	Н	Н	18.39	22.00			
1000 20	10102	160 AM	1.4	Н	V	22.01	33.00	Pass		
1909.30	19193	16QAM	1.4	П	Н	18.75				
			1.4MHz(RE	3 size 6 & F	RB offset 0)					
4000 20	40400	ODCK	4.4	1.1	V	21.72				
1909.30	19193	QPSK	1.4	1.4 H		17.17	22.00	Pass		
1000 20	10102	160 AM	1.4 H	V	21.00	33.00				
1909.30	19193	16QAM	1.4	П	Н	17.85				

Lowest channel

	Lowest Chainlei										
Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result			
20MHz(RB size 1 & RB offset 0)											
1860.00	18700	QPSK	20	Н	V	22.36					
1000.00	18700	QPSK	20	П	Н	18.85	33.00	Pass			
1860.00	18700	16QAM	20	Н	V	22.19	33.00	F 455			
1860.00	18700	TOQAM	20	H 18.34							
	20MHz(RB size 50 & RB offset 0)										
1860.00	18700	QPSK	20	Н	V	22.43					
1660.00	10700	QFSK	20	П	Н	18.43	33.00	Pass			
1860.00	18700	16QAM	20	Н	V	22.19	33.00	F488			
1660.00	16700	TOQAM	20	П	Н	18.34					
		20	MHz(RB siz	e 100 & R	B offset 0)						
1860.00	18700	QPSK	20	Н	V	21.25					
1000.00	16700	QFSK	20	П	Н	17.33	33.00	Pass			
1860.00	18700	16QAM	20	Н	V	21.15	33.00	F a 5 5			
1000.00	16700	IOQAM	20	17	Н	17.51					



Middle channel

Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result		
		2	20MHz(RB s	ize 1 & RE	offset 0)					
1880.00	18900	QPSK	20	Н	V	22.37				
1880.00	10900	QFSK	20	П	Н	18.19	33.00	Door		
1880.00	18900	16QAM	20	Н	V	22.00	33.00	Pass		
1880.00	10900	TOQAW	20	П	Н	18.37				
	20MHz(RB size 50 & RB offset 0)									
1880.00	18900	QPSK	20	Н	V	22.39				
1660.00	10900	QFSK	20	П	Н	18.73	33.00	Pass		
1880.00	18900	16QAM	20	Н	V	22.01	33.00	F a 5 5		
1660.00	10900	IOQAW	20	П	Н	18.37				
		20	MHz(RB siz	e 100 & R	B offset 0)					
1000.00	10000	ODCK	20	Н	V	21.22				
1880.00	18900	QPSK	20	П	Н	17.28	22.00	Door		
1880.00	18900	16QAM	20	00	Н	V	21.01	33.00	Pass	
1000.00	10900	IOQAM	20	I 17	Н	17.45				

Highest channel

	rigilest chainlei										
Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result			
20MHz(RB size 1 & RB offset 0)											
1900.00	19100	QPSK	20	Н	V	22.18					
1900.00	19100	QFSK	20		Н	18.85	33.00	Door			
1900.00	19100	16QAM	20	Н	V	22.19	33.00	Pass			
1900.00	19100	TOQAM	20	11	Н	18.45					
		2	20MHz(RB s	size 50 &	RB offset 0)					
1900.00	19100	QPSK	20	Ι	V	22.22	33.00				
1900.00	19100	QFSK	20	П	Н	18.17		Pass			
1900.00	19100	16QAM	20	Н	V	22.06	33.00	F d 5 5			
1900.00	19100	TOQAM	20	11	Н	18.37					
		2	0MHz(RB s	ize 100 8	RB offset (0)					
1900.00	19100	QPSK	20	Н	V	21.22					
1900.00	19100	QF3K	20	11	Н	17.41	33.00	Pass			
1900.00	19100	16QAM	20	Н	V	21.22	33.00	F a55			
1900.00	19100	ΙΟΩΛΙΝΙ	20	11	Н	17.28					





LTE band 4 part

Lowest channel

Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result		
		•	I.4MHz(RE	3 size 1 &	RB offset 0)					
1710.70	19957	QPSK	1.4	Н	V	22.06				
1710.70	19937	QFSK	1.4 П	П	Н	16.50	20.00	Pass		
1710.70	19957	16QAM	1.4	Н	V	22.09	30.00	Fa55		
1710.70	19937	IOQAW	1.4		Н					
	1.4MHz(RB size 3 & RB offset 0)									
1710.70	19957	QPSK	1.4	Н	V	21.92		Pass		
1710.70	19937	QFSK	1.4	1.4	Н	16.13	30.00			
1710.70	19957	16QAM	1.4	Н	V	22.06	30.00			
1710.70	19937	IOQAW	1.4		Н	16.26				
		•	1.4MHz(RE	3 size 6 &	RB offset 0)					
1710 70	10057	ODSK	4.4	Н	V	21.31				
1710.70	19957	QPSK	1.4		Н	15.47	20.00	Pass		
1710 70	10057	160 AM	1.1	Н	V	20.49	30.00			
1710.70	19957	16QAM	1.4	П	Н	14.50				

Middle channel

	Middle Channel										
Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result			
	1.4MHz(RB size 1 & RB offset 0)										
1722.50	20175	ODCK	1.4	Н	V	22.17					
1732.50	20175	QPSK	1.4	П	Н	16.71	20.00	Door			
1732.50	20175	16QAM	1.4	Н	V	22.73	30.00	Pass			
1732.50	20173	IOQAW	1.4	П	Н	16.33					
	1.4MHz(RB size 3 & RB offset 0)										
1732.50	20175	QPSK	1.4	1.4 H	V	21.20	30.00				
1732.50	20175	QFSK	1.4		Н	16.85		Door			
1732.50	20175	16QAM	1.4	Н	V	22.34		Pass			
1732.50	20175	IOQAW	1.4	- 11	Н	16.41					
		1	.4MHz(RE	3 size 6 &	RB offset 0)						
1732.50	20175	QPSK	1.4	Н	V	21.20					
1732.50	20175	QFSK	1.4	П	Н	15.49	20.00	Door			
1722.50	20175	16OAM	1 1		V	20.39	30.00	Pass			
1732.50	20175	16QAM	1.4	Н	Н	14.01					



Highest channel

Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result		
		•	1.4MHz(RE	size 1 & l	RB offset 0)					
1754.30	20393	QPSK	1.1	4.4	V	22.01				
1754.50	20393	QFSK	1.4 H		Н	16.52	20.00	Door		
1754 20	20393	16QAM	1 4 H V 22.85	30.00	Pass					
1754.30	20393	IOQAW	1.4 H H 16.49							
	1.4MHz(RB size 3 & RB offset 0)									
1751 20	20202	ODSK		1.4 H	V	21.34		Door		
1754.30	20393	QPSK	1.4	П	Н	16.85	30.00			
1754.30	20393	16QAM	1.4	Н	V	22.41		Pass		
1754.50	20393	IOQAW	1.4	П	Н	16.01				
		,	1.4MHz(RE	3 size 6 & F	RB offset 0)					
4754.00	20202	ODCK	4.4	- 11	V	21.52				
1754.30	20393	QPSK	1.4	Н	Н	15.37	20.00			
1754 20	20202	160 AM	4.4	Н	V	20.52	30.00	Pass		
1754.30	20393	16QAM	1.4	П	Н	14.49				

Lowest channel

Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
		2	0MHz(RB si	ze 1 & RB	offset 0)			
1720.00	20050	QPSK	20	Н	V	22.20		
1720.00	20050	QPSK	20	П	Н	16.85	30.00	Pass
1720.00	20050	16QAM	20	Н	V	22.37	30.00	Pa55
1720.00	20050	IOQAW	20	П	Н	16.34		
		20MHz	(RB size 50	& RB offse	et 0)			
1720.00	20050	QPSK	20	Н	V	21.17		
1720.00	20050	QFSK	20	П	Н	16.71	30.00	Pass
1720.00	20050	16QAM	20	Н	V	22.43	30.00	Pa55
1720.00	20050	IOQAW	20	П	Н	16.28		
		20MHz(RB size 100	& RB offs	et 0)			
1720.00	20050	QPSK	20	Н	V	21.37		
1720.00	20050	QFSK	20	П	Н	15.73	20.00	Door
1720.00	20050	16QAM	20	Н	V	20.85	- 30.00 Pa	Pass
1720.00	20000	IOQAW	20	П	Н	14.41		



Middle channel

Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result	
		2	0MHz(RB si	ze 1 & RB	offset 0)				
1722.50	O 20175 QPSK 20 H V 22.17								
1732.50	20175	QPSK	20	Г	Н	16.71	30.00	Pass	
1732.50	20175	16QAM	20	Н	V	22.37	30.00	Fa55	
1732.50	20175	TOQAW	20	П	Н	16.34			
20MHz(RB size 50 & RB offset 0)									
1732.50	20175	QPSK	20	Н	V	21.41			
1732.50	20175	QFSK	20	П	Н	16.31	30.00	Pass	
1732.50	20175	16QAM	20	Н	V	22.21	30.00	rass	
1732.30	20173	TOQAW	20	!!	Н	16.39			
		20	MHz(RB siz	e 100 & RI	3 offset 0)				
1732.50	20175	QPSK	20	Н	V	21.01			
1732.50	20173	QF3N	20	П	Н	15.37	30.00	Pass	
1732 50	1732.50 20175 16QA	16QAM	20	Н	V	20.17	30.00	Fa55	
1732.50	20175	IOQAW	20	11	Н	14.39			

High channel

High channel										
Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result		
20MHz(RB size 1 & RB offset 0)										
1745.00	20300	QPSK	20	Н	V	22.33				
1745.00	20300	QFSK	20	П	Н	16.34	30.00	Pass		
1745.00	20300	16QAM	20	Н	V	22.41	30.00	F a 5 5		
1745.00	20300	TOQAM	20	П	Н	16.22				
20MHz(RB size 50 & RB offset 0)										
1745.00	20300	QPSK	20	Н	V	21.42				
1745.00	20300	QFSK	20	П	Н	16.44	30.00	Pass		
1745.00	20300	16QAM	20	Н	V	22.22	30.00	Fa55		
1745.00	20300	IOQAW	20	П	Н	16.06				
		2	20MHz(RB siz	e 100 & RI	3 offset 0)					
1745.00	20200	ODSK	20	Н	V	21.01				
1745.00	20300	QPSK	20	Г	Н	15.37	20.00	Door		
1745.00	5.00 20300 16QAM	20	Н	V	20.95	30.00	Pass			
1745.00	20300	IOQAM	20	П	Н	14.06				





LTE band 7 part

Lowest channel

Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result								
			5MHz(RB	size 1 & I	RB offset 0)											
2502.50	20775	QPSK	5	Н	V	19.56										
2502.50	20773	QFSK	5	11	Н	14.04	33.00	Pass								
2502.50	20775	16QAM	5	Н	V	19.59	33.00	Fa55								
2502.50	20775	TOQAW	5		Н	14.16										
5MHz(RB size 12& RB offset 0)																
2502.50	20775	QPSK	5	Н	V	19.14										
2302.30	20113	QI SIX	3	11	Н	13.55	33.00	Pass								
2502.50	20775	16QAM	5	Н	V	19.35	33.00	1 433								
2002.00	20110	1007(11)	Ü	.,,	Н	13.80										
			5MHz(RB	size 25&	RB offset 0)											
2502.50	20775	QPSK	5	ы	V	17.83										
2302.30	20113	QF SIN	,	5 H	Н	12.42	33.00	Pass								
2502.50	20775	16QAM	5		Н	П	ы	П			П		V	18.87	33.00	F 055
2302.30	20113	TOQAW	3	11	Н	13.25										

Middle channel

Middle channel										
Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result		
5MHz(RB size 1 & RB offset 0)										
2525.00	21100	OBSK	5	Н	V	19.25				
2535.00	21100	QPSK	5	П	Н	14.01	33.00	Pass		
2525.00	21100	160 A M	5	Н	V	19.50	33.00	Fa55		
2535.00	21100	16QAM	5	Г	Н	14.16				
5MHz(RB size 12& RB offset 0)										
2525.00	21100	, i	5	5 H V	V	19.16				
2535.00	21100	QPSK	5	П	Н	13.62	33.00	Pass		
2535.00	21100	16QAM	5	Н	V	19.20	33.00	F a 5 5		
2555.00	21100	TOQAM	5		Н	13.02				
		Ę	5MHz(RB	size 25&	RB offset 0)					
2525.00	21100	ODCK	E	ш	V	17.39				
2535.00	21100	QPSK	5 H	Н	12.38	22.00	Door			
2525.00	2535.00 21100 16QAM	E	ы	V	18.98	33.00	Pass			
2000.00	21100	TOQAM	5 H	17	Н	13.48				



Highest channel

Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result		
	5MHz(RB size 1 & RB offset 0)									
2567.50	21425	QPSK	5	Н	V	19.34				
2567.50	21423	QFSK	3	П	Н	14.38	33.00	Pass		
2567.50	21425	16QAM	5	Н	V	19.48	33.00	Fa55		
2567.50	21423	IOQAW	3	П	Н	14.82				
	5MHz(RB size 12& RB offset 0)									
2567.50	24.425	ODSK	5	Н	V	19.32				
2567.50	21425	QPSK	5	П	Н	13.12	33.00	Door		
2567.50	21425	16QAM	5	Н	V	19.51	33.00	Pass		
2567.50	21423	IOQAW	3	П	Н	13.39				
			5MHz(RB	size 25& R	RB offset 0)					
2507.50	04.405	ODCK	-	1.1	V	17.24				
2567.50	21425	QPSK	5	Н	Н	12.18	22.00	Doos		
2567.50	24.425	160 A M	E .	1	V	18.87	33.00	Pass		
2567.50	21425	16QAM	5	Н	Н	13.39				

Lowest channel

Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result		
	20MHz(RB size 1 & RB offset 0)									
2510.00	20050	ODSK	ODSK 20 H V 19.25							
2510.00	20850	QPSK	20	Н	Н	14.14	22.00	Doos		
2510.00	20050	16O A M	20	Ш	V	19.26	33.00	Pass		
2510.00	20850	16QAM	20	Н	Н	14.92				
	20MHz(RB size 50 & RB offset 0)									
2510.00	20050	ODSK	20	Н	V	19.33				
2510.00	20850	QPSK	20	П	Н	13.15	33.00	Pass		
2510.00	20850	16QAM	20	Н	V	19.85	33.00	Pass		
2510.00	20030	TOQAM	20		Н	13.14				
		20MHz(RB size 100	& RB offs	et 0)					
2510.00	20850	QPSK	20	Н	V	17.52				
2510.00	20000	QFSK	20	П	Н	12.01	22.00	Door		
2510.00	10.00 20850 16QAM 2	20	Н	V	18.66	33.00	Pass			
2510.00	20000	TOQAM	20	17	Н	13.25				



Middle channel

Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result		
20MHz(RB size 1 & RB offset 0)										
2535.00	21100	QPSK	20	Н	V	19.17				
2555.00	21100	QFSN	20	П	Н	14.83	33.00	Pass		
2535.00	21100	16QAM	20	Н	V	19.39	33.00	F 455		
2555.00	21100	TOQAW	20	П	Н	14.35				
20MHz(RB size 50 & RB offset 0)										
2535.00	21100	QPSK	20	Н	V	19.52				
2555.00	21100	QFSN	20	П	Н	13.26	33.00	Pass		
2535.00	21100	16QAM	20	Н	V	19.83	33.00	rass		
2333.00	21100	TOQAW	20	!!	Н	13.17				
		20	MHz(RB siz	e 100 & R	B offset 0)					
2535.00	21100	QPSK	20	Н	V	17.83				
2555.00	21100	QFSN	20	П	Н	12.37	33.00	Pass		
2535.00	21100	16QAM	20	Н	V	18.75	33.00	Fa55		
2555.00	21100	TOQAW	20	11	Н	13.82				

High channe

High channel										
Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result		
20MHz(RB size 1 & RB offset 0)										
2560.00	21350	QPSK	20	Н	V	19.25				
2500.00	21330	QFSK	20	П	Н	14.36	33.00	Pass		
2560.00	21350	16QAM	20	Н	V	19.48	33.00	F 455		
2300.00	21330	TOQAM	20	!!	Н	14.17				
20MHz(RB size 50 & RB offset 0)										
2560.00	21350	QPSK	20	Н	V	19.82				
2300.00	21330	QFSK	20	11	Н	13.25	33.00	Pass		
2560.00	21350	16QAM	20	Н	V	19.22	33.00	Fass		
2300.00	21330	TOQAM	20	11	Н	13.24				
		2	20MHz(RB s	ize 100 8	RB offset ())				
2560.00	21350	QPSK	20	Н	V	17.57				
2500.00	21350	QFSN	20	П	Н	12.48	33.00	Pass		
2560.00	21350	16QAM	20	Ц	V	18.11	33.00	Fa55		
2300.00	21330	TOQAM	20 H		Н	13.01				



LTE band 17 part Lowest channel

Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	ERP(dBm)	Limit (dBm)	Result	
			5MHz(RE	3 size 1 &	RB offset 0)				
706.50	23755	QPSK	5	Н	V	15.45			
700.50	23755	QF3K	5		Н	11.19	34.77	Pass	
706.50	23755	16QAM	5	Н	V	15.17	34.77	F 455	
706.50	23733	IOQAW	5	П	Н	10.94			
	5MHz(RB size 12 & RB offset 0)								
706.50	23755	QPSK	5	Н	V	15.11			
706.50	23733	QFSK	5	П	Н	10.71	34.77	Pass	
706.50	23755	16QAM	5	Н	V	15.00	34.77	газэ	
700.50	23733	IOQAW	5	!!	Н	10.58			
		!	5MHz(RB	size 25 8	RB offset 0)				
706.50	23755	QPSK	5	Н	V	13.39			
700.50	23700	QF3N	5	П	Н	8.82	34.77	Pass	
706.50	06.50 23755 16QAM	5	Н	V	15.32	34.77	Pass		
700.50	20700	IOQAW	3	11	Н	10.91			

Middle channel

Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	ERP(dBm)	Limit (dBm)	Result	
			5MHz(RI	B size 1 &	RB offset 0)				
710.00	23790	QPSK	5	Н	V	15.76			
710.00	23790	QFSK	5	11	Н	11.06	34.77	Pass	
710.00	23790	16QAM	5	Н	V	15.18	34.77	F a 5 5	
710.00	23790	IOQAW	5	П	Н	10.29			
	5MHz(RB size 12 & RB offset 0)								
710.00	22700	QPSK	E	Н	V	15.42			
710.00	23790	QPSK	5	П	Н	10.15	24 77	Pass	
710.00	23790	16QAM	5	Н	V	15.81	34.77	Pa55	
710.00	23790	IOQAW	5	П	Н	10.79			
			5MHz(RE	3 size 25 &	RB offset 0)				
740.00	22700	ODCK	-	1.1	V	13.18			
710.00	23790	QPSK	5 H	Н	8.18	24 77	Door		
710.00	23790	16QAM	5 H —		V	15.42	34.77	Pass	
7 10.00	23790	IOQAW		Н	10.32				

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Highest channel

Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	ERP(dBm)	Limit (dBm)	Result	
5MHz(RB size 1 & RB offset 0)									
712.50	22025	QPSK	5	Н	V	15.65			
713.50	23825	QPSK	5	П	Н	11.29	24 77	Pass	
712.50	22025	160 AM	5	Н	V	15.91	34.77	Fa55	
713.50	23825	16QAM	5	П	Н	10.42			
	5MHz(RB size 12 & RB offset 0)								
713.50	00005	5	Н	V 15.15					
7 13.50	23825	QPSK	5	П	Н	10.32	34.77	Pass	
713.50	23825	16QAM	5	Н	V	15.37	34.77	Fa55	
713.50	23023	TOQAW	5	П	Н	10.39			
			5MHz(RB	size 25 &	RB offset 0)				
742.50	22025	ODCK	_	Н	V	13.79			
713.50	23825	QPSK	5	П	Н	8.42	24.77	Door	
712.50	3.50 23825 16QAM 5	E	ы	V	15.24	34.77	Pass		
713.50	23023	IOQAW	5 H	П	Н	10.02			

Lowest channel

Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	ERP(dBm)	Limit (dBm)	Result			
	10MHz(RB size 1 & RB offset 0)										
709.00	23780	QPSK	10	Н	V	15.71					
709.00	23700	QFSK	10		Н	11.36	34.77	Pass			
700.00	23780	16QAM	10	I	V	15.32	34.77	F d 5 5			
709.00	23700	IOQAW	10		Н	10.54					
	10MHz(RB size 25& RB offset 0)										
700.00	22700	QPSK	10	Н	V	15.36					
709.00	23780	QFSK	10		Н	10.24	34.77	Pass			
709.00	23780	16QAM	10	I	V	15.21	34.77	F d 5 5			
709.00	23760	TOQAM	10		Н	10.82					
		•	10MHz(R	B size 508	RB offset 0)						
709.00	23780	QPSK	10	Н	V	13.36					
709.00	23/00	QF3N	10	П	Н	8.98	34.77	Page			
709.00	23780	16QAM	10	Н	V	15.30	34.77	Pass			
703.00	23700	IOQAW	10	11	Н	10.42					



Middle channel

Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	ERP(dBm)	Limit (dBm)	Result	
			10MHz(R	B size 1 &	RB offset 0)				
710.00	23790	QPSK	10 F	Н	V	15.71			
710.00	23790	QFSK	10	П	Н	11.05	34.77	Pass	
710.00	23790	16QAM	10 H	ы	V	15.72	34.77	F a 5 5	
7 10.00	23790	TOQAM	10	П	Н	10.42			
	10MHz(RB size 25& RB offset 0)								
710.00	22700	OBSK	10	Н	V	15.13			
710.00	23790	QPSK	10	П	Н	10.33	24.77	Door	
710.00	23790	16QAM	40	1 10	Н	V	15.01	34.77	Pass
710.00	23790	TOQAM	10	П	Н	10.37			
		•	10MHz(R	B size 50&	RB offset 0)				
740.00	22700	ODCK	40	- 11	V	13.97			
710.00	23790	QPSK	10	Н	Н	8.92	24.77	Door	
710.00	22700	160 AM	10	Н	V	15.62	34.77	Pass	
710.00	23790	16QAM	10	П	Н	10.37			

Highest channel

	rignest channel							
Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	ERP(dBm)	Limit (dBm)	Result
			10MHz(R	B size 1 &	RB offset 0)			
711.00	23800	QPSK	10	Н	V	15.90		
711.00	23000	QPSK	10	П	Н	11.42	34.77	Door
711.00	23800	16QAM	10	Н	V	15.39	34.77	Pass
711.00	23000	IOQAW	10	П	Н	10.62		
	10MHz(RB size 25& RB offset 0)							
711.00	23800	QPSK	10	Н	V	15.41		
711.00	23000	QFSK	10	П	Н	10.29	34.77	Pass
711.00	22000	16QAM	10	Н	V	15.91	34.77	Fa55
711.00	23800	IOQAW	10	П	Н	10.20		
		•	10MHz(R	B size 50&	RB offset 0)			
711.00	22000	ODSK	10	Н	V	13.51		
711.00	23800	QPSK	10	П	Н	8.76	34.77	Pass
711.00	23800	16QAM	10	Н	V	15.91	34.11	гаъъ
711.00	23000	IOQAW	10	11	Н	10.13		



6.11 Field strength of spurious radiation measurement

o. 11 Field Strength of Sp	urious radiation measurement
Test Requirement:	Part 24.238 (a),Part 27.53(g), Part 27.53(m), Part 27.53(h)
Test Method:	FCC part2.1053
Limit:	LTE Band 2, LTE Band 4, LTE Band 5 and LTE Band 17: -13dBm, LTE Band 7: -25dBm
Test setup:	Antenna Tower Search Antenna RF Test Receiver Ground Plane Above 1GHz
	Horn Automa Spectrum Analyser Len Table Amplifier
	Substituted method: Antenna mast Ground plane d: distance in meters d: 3 meter S.G. Substituted Dipole or Horn Antenna Bi-Log Antenna or Horn Antenna
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. 4. 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 (worst case):

Below 1GHz:

The emission levels of below 1 GHz are 20 dB lower than the limit so not show in this report.

Above 1GHz

For above 1 GHz, all test modes were performed, and just the worst case shown in the report.



LTE band 2 part:

		ze 1 & RB offset 0) for	or QPSK	
Frequency (MHz)	Spurious I		Limit (dBm)	Result
Frequency (IVII 12)	Polarization	Level (dBm)	Limit (ubin)	Result
		Lowest		
3701.40	Vertical	-50.16		
5552.10	V	-40.31	40.00	
7402.00	V	-39.05		Daga
3701.40	Horizontal	-49.73	-13.00	Pass
5552.10	Н	-40.32		
7402.00	Н	-38.63		
<u> </u>		Middle		
3760.00	Vertical	-49.25		Pass
5640.00	V	-41.72		
7520.00	V	-39.19	12.00	
3760.00	Horizontal	-50.66	-13.00	
5640.00	Н	-41.41		
7520.00	Н	-40.57		
		Highest		
3816.60	Vertical	-49.66		
5724.90	V	-41.51	-13.00	
7633.20	V	-38.67		Date
3816.60	Horizontal	-50.33		Pass
5724.90	Н	-43.05		
7633.20	Н	-39.37		





	3MHz(RB siz	ze 1 & RB offset 0)	for QPSK	
Fraguera (MIII-)	Spurious Emission			5 "
Frequency (MHz)	Polarization	Level (dBm)	Limit (dBm)	Result
		Lowest		
3703.00	Vertical	-50.85		
5554.50	V	-40.19		
7406.00	V	-39.76	-13.00	Pass
3703.00	Horizontal	-49.45	-13.00	Pass
5554.50	Н	-40.19		
7406.00	Н	-38.51]	
		Middle		
3760.00	Vertical	-49.28		Pass
5640.00	V	-41.54		
7520.00	V	-39.55	-13.00	
3760.00	Horizontal	-50.82	-13.00	
5640.00	Н	-41.15		
7520.00	Н	-40.16		
		Highest		
3817.00	Vertical	49.38		
5725.50	V	-41.36		
7634.00	V	-38.76	-13.00	Pass
3817.00	Horizontal	-50.42		Pass
5725.50	Н	-43.55		
7634.00	Н	-39.33		





		ze 1 & RB offset 0) fo	or QPSK	1
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
1 10440110) (1111 12)	Polarization	Level (dBm)		
		Lowest		
3705.00	Vertical	-50.38		
5557.50	V	-40.57		
7410.00	V	-39.42	-13.00	Pass
3705.00	Horizontal	-49.41	-13.00	Pass
5557.50	Н	-40.49		
7410.00	Н	-38.12		
<u> </u>		Middle		
3760.00	Vertical	-49.12		Pass
5640.00	V	-41.99		
7520.00	V	-39.36	42.00	
3760.00	Horizontal	-50.67	-13.00	Pass
5640.00	Н	-41.68		
7520.00	Н	-40.12		
<u> </u>		Highest		
3815.00	Vertical	-49.64		
5722.50	V	-41.42		
7630.00	V	-38.12	-13.00	Doss
3815.00	Horizontal	-50.83		Pass
5722.50	Н	-43.45		
7630.00	Н	-39.47		





	10MHz(RB si	ze 1 & RB offset 0) f	for QPSK	
	Spurious Emission			
Frequency (MHz)	Polarization	Level (dBm)	Limit (dBm)	Result
		Lowest		
3710.00	Vertical	-50.57		
5565.00	V	-40.18		
7420.00	V	-39.47	-13.00	Pass
3710.00	Horizontal	-49.92	-13.00	Pass
5565.00	Н	-40.38		
7420.00	Н	-38.12		
		Middle		
3760.00	Vertical	-49.67		Pass
5640.00	V	-41.52		
7520.00	V	-39.67	-13.00	
3760.00	Horizontal	-50.67	-13.00	
5640.00	Н	-41.38		
7520.00	Н	-40.12		
·		Highest		
3810.00	Vertical	-49.41		
5715.00	V	-41.66	-13.00	
7620.00	V	-38.64		Pass
3810.00	Horizontal	-50.85		Pass
5715.00	Н	-43.41		
7620.00	Н	-39.67		





	15MHz(RB	size 1 & RB offset () for QPSK	
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
r requericy (wir iz)	Polarization	Level (dBm)	Limit (dbin)	Nesuit
		Lowest		
3715.00	Vertical	-50.57		
5572.50	V	-40.33		
7430.00	V	-39.42	-13.00	Pass
3715.00	Horizontal	-49.41	-13.00	F d 5 5
5572.50	Н	-40.64		
7430.00	Н	-38.41		
		Middle	<u>.</u>	
3760.00	Vertical	-49.79		Pass
5640.00	V	-41.12		
7520.00	V	-39.49	-13.00	
3760.00	Horizontal	-50.79	-13.00	
5640.00	Н	-41.51		
7520.00	Н	-40.12		
		Highest	·	
3805.00	Vertical	-49.54		
5707.50	V	-41.55		
7610.00	V	-38.13	-13.00	Dana
3805.00	Horizontal	-50.85		Pass
5707.50	Н	-43.68		
7610.00	Н	-39.41		





	20MHz(RB	size 1 & RB offset 0) for QPSK	
	Spurious Emission			
Frequency (MHz)	Polarization	Level (dBm)	Limit (dBm)	Result
		Lowest		
3720.00	Vertical	-50.75		
5580.00	V	-40.47		
7440.00	V	-39.08	42.00	Dana
3720.00	Horizontal	-49.64	-13.00	Pass
5580.00	Н	-40.49		
7440.00	Н	-38.66		
		Middle		
3760.00	Vertical	-49.64		
5640.00	V	-41.75		Pass
7520.00	V	-39.39	-13.00	
3760.00	Horizontal	-50.74	-13.00	
5640.00	Н	-41.38		
7520.00	Н	-40.12		
		Highest		
3800.00	Vertical	-49.12		
5700.00	V	-41.92]	
7600.00	V	-38.49	-13.00	Pass
3800.00	Horizontal	-50.54		Pass
5700.00	Н	-43.24]	
7600.00	Н	-39.39]	





LTE Band 4 Part:

1.4MHz(RB size 1 & RB offset 0) for QPSK						
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result		
1 requericy (Wir 12)	Polarization	Level (dBm)	Limit (abin)	Nesuit		
		Lowest				
3421.40	Vertical	-49.99				
5132.10	V	-41.17				
6842.80	V	-35.95	-13.00	Pass		
3421.40	Horizontal	-49.59	-13.00	Fd55		
5132.10	Н	-39.19				
6842.80	Н	-35.03				
	Middle					
3465.00	Vertical	-49.48				
5197.50	V	-43.76				
6930.00	V	-40.35	42.00	Door		
3465.00	Horizontal	-50.09	-13.00	Pass		
5197.50	Н	-43.68				
6930.00	Н	-39.66				
		Highest		_		
3508.60	Vertical	-49.93				
5262.90	V	-40.08				
7017.20	V	-38.67	-13.00	Pass		
3508.60	Horizontal	-48.25		Pass		
5262.90	Н	-39.62				
7017.20	Н	-36.99				





	3MHz(RB siz	ze 1 & RB offset 0) fo	or QPSK	
Гто с оп от / / / / I I - \		Emission		Decult
Frequency (MHz)	Polarization	Level (dBm)	Limit (dBm)	Result
		Lowest		
3423.00	Vertical	-49.41		
5134.50	V	-41.63		
6846.00	V	-35.35	42.00	Door
3423.00	Horizontal	-49.42	-13.00	Pass
5134.50	Н	-39.65		
6846.00	Н	-35.93	1	
		Middle		
3465.00	Vertical	-49.41		Pass
5197.50	V	-43.88		
6930.00	V	-40.08	42.00	
3465.00	Horizontal	-50.42	-13.00	
5197.50	Н	-43.84		
6930.00	Н	-39.49		
		Highest		•
3507.00	Vertical	-49.94		
5260.50	V	-40.46		
7014.00	V	-38.16	-13.00	Door
3507.00	Horizontal	-48.64		Pass
5260.50	Н	-39.51		
7014.00	Н	-36.63		





	FMU-/DD a:	4 0 DD -ff+ 0\ 4	Sam ODCK	
		ze 1 & RB offset 0) f	or QPSK	
Frequency (MHz)	Polarization	Emission Level (dBm)	Limit (dBm)	Result
	1 Olanzation	Lowest		
3425.00	Vertical	-49.35		
5137.50	V	-41.50	1	
6850.00	V	-35.07	1	
3425.00	Horizontal	-49.74	-13.00	Pass
5137.50	Н	-39.57	1	
6850.00	H	-35.41	1	
		Middle		
3465.00	Vertical	-49.84		Pass
5197.50	V	-43.41		
6930.00	V	-40.36	1	
3465.00	Horizontal	-50.12	-13.00	
5197.50	Н	-43.99		
6930.00	Н	-39.94	1	
		Highest		'
3505.00	Vertical	-49.43		
5257.50	V	-40.16	1	
7010.00	V	-38.57	40.00	Dana
3505.00	Horizontal	-48.41	-13.00	Pass
5257.50	Н	-39.18	1	
7010.00	Н	-36.56		





	10MHz(RB si	ze 1 & RB offset 0) t	for QPSK		
Frequency (MHz)	Spurious	Emission	Limit (dBm)	Result	
Frequency (MHZ)	Polarization	Level (dBm)	Limit (ubin)	Result	
		Lowest			
3430.00	Vertical	-49.52			
5145.00	V	-41.06			
6860.00	V	-35.74	-13.00	Door	
3430.00	Horizontal	-49.52	-13.00	Pass	
5145.00	Н	-39.49			
6860.00	Н	-35.92			
·		Middle			
3465.00	Vertical	-49.35		Pass	
5197.50	V	-43.42			
6930.00	V	-40.45	-13.00		
3465.00	Horizontal	-50.94	-13.00		
5197.50	Н	-43.08			
6930.00	Н	-39.93			
		Highest			
3500.00	Vertical	-49.08			
5250.00	V	-40.93			
7000.00	V	-38.12	12.00	Door	
3500.00	Horizontal	-48.08	-13.00	Pass	
5250.00	Н	-39.16			
7000.00	Н	-36.50			





	15MHz(RB s	ize 1 & RB offset 0)	for QPSK	
- (111)		Emission		5
Frequency (MHz)	Polarization	Level (dBm)	Limit (dBm)	Result
		Lowest		
3435.00	Vertical	-49.52		
5152.50	V	-41.65		
6870.00	V	-35.16	-13.00	Door
3435.00	Horizontal	-49.45	-13.00	Pass
5152.50	Н	-39.74		
6870.00	Н	-35.46		
		Middle		
3465.00	Vertical	-49.71		
5197.50	V	-43.52		
6930.00	V	-40.49	12.00	Door
3465.00	Horizontal	-50.41	-13.00	Pass
5197.50	Н	-43.77		
6930.00	Н	-39.94]	
<u>.</u>		Highest		
3495.00	Vertical	-49.94		
5242.50	V	-40.44		
6990.00	V	-38.12	-13.00	Pass
3495.00	Horizontal	-48.71	-13.00	F 435
5242.50	Н	-39.94		
6990.00	Н	-36.49		





	20MHz(RB s	ize 1 & RB offset 0) for QPSK		
Frequency (MHz)	Spurious	Emission	Limit (dBm)	Danult	
riequency (Minz)	Polarization	Level (dBm)	LIIIII (UDIII)	Result	
		Lowest			
3440.00	Vertical	-49.56			
5160.00	V	-41.71			
6880.00	V	-35.52	-13.00	Doos	
3440.00	Horizontal	-49.77	-13.00	Pass	
5160.00	Н	-39.45			
6880.00	Н	-35.93			
		Middle			
3465.00	Vertical	-49.08			
5197.50	V	-43.12			
6930.00	V	-40.94	-13.00	Door	
3465.00	Horizontal	-50.93	-13.00	Pass	
5197.50	Н	-43.12			
6930.00	Н	-39.41			
		Highest			
3490.00	Vertical	-49.43			
5235.00	V	-40.41			
6980.00	V	-38.49	12.00	Door	
3490.00	Horizontal	-48.57	-13.00	Pass	
5235.00	Н	-39.42			
6980.00	Н	-36.46]		





LTE Band 7 Part:

	5MHz(RB size 1 & RB offset 0) for QPSK						
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result			
1 requericy (Wil 12)	Polarization	Level (dBm)	Lillill (dbill)	Nesuit			
5005.00	Vertical	-45.60					
7507.50	V	-39.01					
10010.00	V	-37.71	-25.00	Pass			
5005.00	Horizontal	-45.73	-25.00	Pass			
7507.50	Н	-39.49					
10010.00	Н	-39.21					
		Middle	<u> </u>				
5070.00	Vertical	-46.00					
7605.00	V	-39.16					
10140.00	V	-37.61	25.00	Pass			
5070.00	Horizontal	-45.60	-25.00	F455			
7605.00	Н	-38.87					
10140.00	Н	-38.08					
		Highest					
5135.00	Vertical	-43.24					
7702.50	V	-38.29					
10270.00	V	-36.66	-25.00	Pass			
5135.00	Horizontal	-44.32	-25.00	Pass			
7702.50	Н	-38.77]				
10270.00	Н	-36.41					





	10MHz(RB si	ize 1 & RB offset 0)	for QPSK		
Глания на (NALI-)	<u> </u>	Emission		Decult	
Frequency (MHz)	Polarization	Level (dBm)	Limit (dBm)	Result	
Lowest					
5010.00	Vertical	-45.41			
7515.00	V	-39.44			
10020.00	V	-37.24	-25.00	Pass	
5010.00	Horizontal	-45.94	-25.00	Pass	
7515.00	Н	-39.44			
10020.00	Н	-39.94			
	<u> </u>	Middle	<u> </u>		
5070.00	Vertical	-46.99		Pass	
7605.00	V	-39.42			
10140.00	V	-37.95	-25.00		
5070.00	Horizontal	-45.91	-25.00		
7605.00	Н	-38.39			
10140.00	Н	-38.54			
		Highest			
5130.00	Vertical	-43.46			
7695.00	V	-38.50]		
10260.00	V	-36.51	-25.00	Pass	
5130.00	Horizontal	-44.41	-25.00	Pass	
7695.00	Н	-38.42]		
10260.00	Н	-36.99]		





	15MHz(RB s	size 1 & RB offset 0)) for QPSK			
Fragues and (MILE)		s Emission		Desult		
Frequency (MHz)	Polarization	Level (dBm)	Limit (dBm)	Result		
	Lowest					
5015.00	Vertical	-45.51				
7522.50	V	-39.77				
10030.00	V	-37.10	05.00	Dana		
5015.00	Horizontal	-45.55	-25.00	Pass		
7522.50	Н	-39.78				
10030.00	Н	-39.61				
		Middle				
5070.00	Vertical	-46.61		Pass		
7605.00	V	-39.19				
10140.00	V	-37.41	05.00			
5070.00	Horizontal	-45.24	25.00			
7605.00	Н	-38.24				
10140.00	Н	-38.33				
<u> </u>		Highest				
5125.00	Vertical	-43.46				
7687.50	V	-35.36				
10250.00	V	-36.41	25.00	Door		
5125.00	Horizontal	-44.35	-25.00	Pass		
7687.50	Н	-38.27	1			
10250.00	Н	-36.50				





	20MHz(RB si	ze 1 & RB offset 0)	for QPSK	
Fraguenov (MHz)	Spurious Emission		Limit (dBm)	Result
Frequency (MHz)	Polarization	Level (dBm)	LIIIII (UDIII)	Result
		Lowest		
5020.00	Vertical	-45.49		
7530.00	V	-39.69		
10040.00	V	-37.41	-25.00	Door
5020.00	Horizontal	-45.37	-25.00	Pass
7530.00	Н	-39.24		
10040.00	Н	-39.99		
		Middle		
5070.00	Vertical	-46.99		Pass
7605.00	V	-39.61		
10140.00	V	-37.72	-25.00	
5070.00	Horizontal	-45.24	-25.00	
7605.00	Н	-38.42		
10140.00	Н	-38.68		
		Highest		
5120.00	Vertical	-43.84		
7680.00	V	-35.44		
10240.00	V	-36.24	25.00	Door
5120.00	Horizontal	-44.37	-25.00	Pass
7680.00	Н	-38.41		
10240.00	Н	-36.94		





LTE Band 17 Part:

	5MHz(RB size	e 1 & RB offset 0) fo	r QPSK			
Frequency (MHz)	Spurious Emission		Spurious Emission		Limit (dBm)	Result
riequency (wiriz)	Polarization	Level (dBm)	Limit (ubin)	Result		
		Lowest				
1413.00	Vertical	-46.00				
2119.50	V	-56.46				
2826.00	V	-53.31	42.00	Daga		
1413.00	Horizontal	-45.13	-13.00	Pass		
2119.50	Н	-58.23				
2826.00	.00 H -53.61					
		Middle				
1420.00	Vertical	-40.01				
2130.00	V	-58.73				
2840.00	V	-53.27	40.00	Dana		
1420.00	Horizontal	-41.86	-13.00	Pass		
2130.00	Н	-58.16				
2840.00	Н	-51.66				
		Highest				
1427.00	Vertical	-44.71				
2140.50	V	-60.59				
2854.00	V	-51.60	42.00	Dest		
1427.00	Horizontal	-43.75	-13.00	Pass		
2140.50	Н	-58.12				
2854.00	Н	-51.99				





	10MHz(RB siz	e 1 & RB offset 0) fo	or QPSK	
Fraguenov (MHz)	Spurious	Emission	Limit (dDm)	Result
Frequency (MHz)	Polarization	Level (dBm)	Limit (dBm)	Result
		Lowest		
1418.00	Vertical	-46.12		
2127.00	V	-56.21		
2836.00	V	-53.36	-13.00	Pass
1418.00	Horizontal	-45.36		
2127.00	Н	-58.41		
2836.00	Н	-53.75		
		Middle		
1420.00	Vertical	-40.36		
2130.00	V	-58.43		
2840.00	V	-53.30	-13.00	Pass
1420.00	Horizontal	-41.76	-13.00	Fass
2130.00	Н	-58.13		
2840.00	Н	-51.99		
		Highest		
1422.00	Vertical	-44.58		
2133.00	V	-60.36		
2844.00	V	-51.43	40.00	Pass
1422.00	Horizontal	-43.14	-13.00	Pass
2133.00	Н	-58.97		
2844.00	Н	-51.66		





6.12 Frequency stability V.S. Temperature measurement

Test Requirement:	Part 24.235, Part 27.54, Part 2.1055(a)(1)(b)
Test Method:	FCC Part2.1055(a)(1)(b)
Limit:	±2.5ppm
Test setup:	Spectrum analyzer EUT Att. Variable Power Supply Note: Measurement setup for testing on Antenna connector
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
Remark:	All three channels of all modulations have been tested, but only the worst channel and the worst modulation show in this test item.

Measurement Data (the worst channel):





LTE Band 2(QPSK):

LTE Band 2(QPSK):					
Reference Fr	equency: LTE Band	2(1.4MHz) N	Middle channel=18900	channel=1880.00	OMHz
Power supplied	Tomporature (°C)	Fr	equency error	Limit (mmm)	Decult
(Vdc)	Temperature (°C)	Hz	ppm	Limit (ppm)	Result
	-30	163	0.086702		
	-20	144	0.076596		
	-10	125	0.066489	-	
	0	103	0.054787	-	
3.80	10	116	0.061702	±2.5	Pass
0.00	20	152	0.080851		1 400
	30	160	0.085106		
	40	133	0.070745		
	50	142	0.075532	-	
Reference F				hannel-1880 00	MHz
Reference Frequency: LTE Band 2(3MHz) Middle channel=18900 channel=1880.00MHz					
Power supplied	Temperature (°C)	(e((,) - · · ·	equency error	Limit (ppm)	Result
(Vdc)	00	Hz	ppm		
	-30	166	0.088298		
	-20	145	0.077128	-	
	-10	150	0.079787	<u> </u>	
	0	136	0.072340	=	
3.80	10	155	0.082447	±2.5	Pass
	20	142	0.075532		
	30	112	0.059574		
	40	106	0.056383		
	50	128	0.068085		
Reference F	requency: LTE Band	2(5MHz) M	iddle channel=18900 c	hannel=1880.00	MHz
Power supplied (Vdc)	Temperature (°C)	Fr	equency error	Limit (nnm)	Result
Power supplied (vac)	remperature (C)	Hz	ppm	Limit (ppm)	Result
	-30	174	0.092553		
	-20	152	0.080851	-	
	-10	163	0.086702	-	
	0	134	0.071277		Dana
3.80	10 20	105 122	0.055851	±2.5	Pass
	30	130	0.064894 0.069149	-	
	40	142	0.069149	-	
	50	105	0.075352	-	
	50	100	0.000001		





Reference Fi	equency: LTE Band		2(10MHz) Middle channel=18900 o		MHZ
Power supplied (Vdc)	Temperature (°C)	Hz	equency error	Limit (ppm)	Result
	-30	163	ppm 0.086702		
	-20	152	0.080851		
	-10	141	0.075000		
	0	102	0.054255		
3.80	10	122	0.064894	±2.5	Pass
0.00	20	108	0.057447		
	30	126	0.067021		
	40	136	0.072340		
	50	101	0.053723		
Reference Fr	requency: LTE Band	2(15MHz) M	iddle channel=18900	channel=1880.00	MHz
Power supplied (Vdc)	Temperature (°C)		quency error	Limit (ppm)	Danult
1 Ower supplied (vdc)	remperature (c)	Hz	ppm	Еши (ррш)	Result
	-30	155	0.082447		Pass
	-20	142	0.075532		
	-10	102	0.054255		
	0	113	0.060106		
3.80	10	140	0.074468	±2.5	
	20	103	0.054787		1 455
	30	122	0.064894		
	40	130	0.069149		
	50	152	0.080851		1
Reference Fr	requency: LTE Band	LL) channel=1880.00	MHz
	Temperature (°C)		equency error		
Power supplied (Vdc)	remperature (C)	Hz	ppm	Limit (ppm)	Result
	-30	177	0.094149		
	-20	168	0.089362		
		152	0.080851		
	-10	132	0.0000		
	-10 0	125			
3.80			0.066489	±2.5	Dace
3.80	0 10	125 123	0.066489 0.065426	±2.5	Pass
3.80	0 10 20	125 123 105	0.066489 0.065426 0.055851	±2.5	Pass
3.80	0 10	125 123	0.066489 0.065426	±2.5	Pass





LTE Band 2(16QAM):

LTE Band 2(16QAM):					
Reference F	requency: LTE Band	2(1.4MHz)	Middle channel=18900	channel=1880.0	0MHz
	Temperature (°C)	Frequency error		Limit (ppm)	
Power supplied (Vdc)	remperature (C)	Hz	ppm	Еши (ррш)	Result
	-30	142	0.075532		
	-20	120	0.063830		
	-10	113	0.060106		
	0	106	0.056383		
3.80	10	125	0.066489	±2.5	Pass
0.00	20	140	0.074468		. 455
	30	133	0.070745		
	40	135	0.071809		
	50	116	0.061702		
Reference F			iddle channel=18900 c	hannel=1880 00	MHz
TOTOTOTO 1	requeriey. ETE Baria	, ,		1000.00	VII 12
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
rower supplied (vuc)		Hz	ppm	(F F · · ·)	Nesuit
	-30	147	0.078191		
	-20	136	0.072340		
	-10	105	0.055851		
	0	122	0.064894	±2.5 p	
3.80	10	114	0.060638		Pass
	20	103	0.054787		
	30	118	0.062766		
	40	126	0.067021		
	50	108	0.057447		
Reference F	requency: LTE Band	2(5MHz) M	iddle channel=18900 c	hannel=1880.00	MHz
Davier aventiad ()/da)	Tomporature (°C)	Fr	equency error	Limit (mmm)	Daguit
Power supplied (Vdc)	Temperature (°C)	Hz	ppm	Limit (ppm)	Result
	-30	169	0.089894		
	-20	155	0.082447]	
	-10	150	0.079787]	
	0	142	0.075532		5
3.80	10	136	0.072340	±2.5	Pass
	20	130	0.069149	-	
	30 40	125 156	0.066489 0.082979	-	
	50	145	0.082979	-	
	50	140	0.077120	<u> </u>	





		2(10MHz) Middle channel=18900 of Frequency error			
Power supplied (Vdc)	Temperature (°C)	Hz	ppm	Limit (ppm)	Result
	-30	175	0.093085		
	-20	126	0.067021		
	-10	152	0.080851		
	0	141	0.075000		
3.80	10	133	0.070745	±2.5	Pass
	20	106	0.056383		
	30	150	0.079787		
	40	142	0.075532		
	50	146	0.077660		
	requency: LTE Band	2(15MHz) N	liddle channel=18900	channel=1880.00	MHz
Power supplied	Temperature (°C)		equency error	Limit (ppm)	Result
(Vdc)	, ,	Hz	ppm	Ziiiii (ppiii)	rtocait
	-30	180	0.095745		Pass
	-20	156	0.082979		
	-10	175	0.093085		
	0	170	0.090426		
3.80	10	166	0.088298	±2.5	
	20	154	0.081915		
	30	136	0.072340		
	40	108	0.057447		
	50	128	0.068085		
Reference Fi	requency: LTE Band	2(20MHz) N		channel=1880.00	MHz
Power supplied	Temperature (°ℂ)	Fre	equency error		
(Vdc)	remperature (C)	Hz	ppm	Limit (ppm)	Result
	-30	156	0.082979		
	-20	142	0.075532		
	-10	105	0.055851		
	0	123	0.065426	-	
3.80	10	105	0.055851	±2.5	Pass
3.80	20	142	0.075532		
			0.07 0002		
	30	106	0 056383		
	30 40	106 105	0.056383 0.055851		





LTE Band 4(QPSK):

		LTE Band	4(QPSK):		
Reference Fr	equency: LTE Band	4(1.4MHz) N	/liddle channel=20175	channel=1732.50)MHz
Power supplied	Temperature (°C)	Frequency error		Limit (ppm)	Result
(Vdc)	remperature (c)	Hz	ppm	Limit (ppin)	Result
	-30	177	0.102165		
	-20	163	0.094084		
	-10	125	0.072150		
	0	122	0.070418		
3.80	10	134	0.077345	±2.5	Pass
0.00	20	105	0.060606		
	30	126	0.072727		
	40	137	0.079076		
	50	108	0.062338		
Reference F	requency: LTE Band	l 4(3MHz) M	iddle channel=20175	channel=1732.50	MHz
Power supplied	Temperature (°ℂ)	Fre	equency error	Limit (mmm)	Danult
(Vdc)	Temperature (C)	Hz	ppm	Limit (ppm)	Result
	-30	149	0.086003		
	-20	120	0.069264		
	-10	106	0.061183		
	0	113	0.065224		
3.80	10	125	0.072150	±2.5	Pass
3.00	20	106	0.061183		1 433
	30	114	0.065801		
	40	107	0.061760		
	50	122	0.070418		
Reference F		l.	iddle channel=20175	channel=1732.50	MHz
			Frequency error		
Power supplied (Vdc)	Temperature (°C)	Hz	ppm	Limit (ppm)	Result
	-30	169	0.097547		
	-20	152	0.087734		
	-10	142	0.081962		
	0	106	0.061183		
3.80	10	122	0.070418	±2.5	Pass
	20	134	0.077345		
	30	105	0.060606		
	40	126	0.072727		
	50	140	0.080808		





	- (00)	Frequency error			
Power supplied (Vdc)	Temperature (°C)	Hz	ppm	Limit (ppm)	Result
	-30	185	0.106782		
	-20	152	0.087734		
	-10	166	0.095815		
	0	174	0.100433		
3.80	10	152	0.087734	±2.5	Pass
	20	136	0.078499		
	30	104	0.060029		
	40	135	0.077922		
	50	139	0.080231		
Reference Fr	requency: LTE Band	4(15MHz) Mi	ddle channel=2017	5 channel=1732.50	MHz
Power supplied (Vdc)	Temperature (°C)		quency error	Limit (ppm)	Dogult
Towor supplied (Vdo)	, , ,	Hz	ppm	Liiii (ppiii)	Result
	-30	170	0.098124		
	-20	152	0.087734		
	-10	163	0.094084		
	0	142	0.081962		
3.80	10	152	0.087734	±2.5	Pass
	20	105	0.060606		1 400
	30	136	0.078499		
	40	108	0.062338		
	50	108	0.062338		İ
Reference Fr	requency: LTE Band			5 channel=1732.50	MHz
			quency error		
Power supplied (Vdc)	Temperature (°C)	Hz	ppm	Limit (ppm)	Result
	-30	145	0.083694		
	-20	102	0.058874		
	-10	140	0.080808		
		140 133	0.080808		
3.80	0	133	0.076768	+2.5	Poor
3.80	0 10	133 126	0.076768 0.072727	±2.5	Pass
3.80	0 10 20	133 126 100	0.076768 0.072727 0.057720	±2.5	Pass
3.80	0 10	133 126	0.076768 0.072727	±2.5	Pass





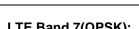
LTE Band 4(16QAM):

		LTE Band	4(16QAM):		
Reference F	requency: LTE Band	4(1.4MHz)	Middle channel=20175	channel=1732.5	0MHz
	Temperature (°C)	F	Frequency error		
Power supplied (Vdc)	remperature (C)	Hz	ppm	Limit (ppm)	Result
	-30	136	0.078499		
	-20	130	0.075036		
	-10	120	0.069264		
	0	115	0.066378		
3.80	10	105	0.060606	±2.5	Pass
0.00	20	107	0.061760	1	1 400
	30	123	0.070996		
	40	142	0.081962		
	50	126	0.072727	=	
Reference F			iddle channel=20175 c	hannel-1732 50N	.//Ц¬
Neielelice i	requericy. LTL barid	4(31VII 12) IVI			VII IZ
Power supplied (Vdc)	Temperature (℃)	Frequency error		Limit (ppm)	Result
Power supplied (vac)		Hz	ppm	(Result
	-30	177	0.102165		
	-20	155	0.089466		
	-10	136	0.078499		
	0	146	0.084271		
3.80	10	125	0.072150	±2.5	Pass
0.00	20	136	0.078499		. 466
	30	145	0.083694		
	40	108	0.062338		
	50	129	0.074459		
Reference F	requency: LTE Band		iddle channel=20175 d	channel=1732.50ľ	ИНz
D " 10/1)	T (°C)	Fr	equency error		D 11
Power supplied (Vdc)	Temperature (°C)	Hz	ppm	Limit (ppm)	Result
	-30	178	0.102742		
	-20	165	0.095238		
	-10	145	0.083694	_	
	0	126	0.072727	_	_
3.80	10	136	0.078499	±2.5	Pass
	20	142	0.081962	-	
	30	105	0.060606	-	
	40	128	0.073882	-	
	50	109	0.062915		





D	Tamanauati (°C)	Frequency error		Limit (Danult
Power supplied (Vdc)	Temperature (°C)	Hz	ppm	Limit (ppm)	Result
	-30	184	0.106205		
	-20	165	0.095238		
	-10	155	0.089466		
	0	125	0.072150		
3.80	10	152	0.087734	±2.5	Pass
	20	143	0.082540		
	30	126	0.072727		
	40	142	0.081962		
	50	102	0.058874		
	requency: LTE Band		liddle channel=20175	channel=1732.50	MHz
Power supplied	Temperature (°C)		equency error	Limit (ppm)	Result
(Vdc)		Hz	ppm	(pp)	
	-30	191	0.110245		
	-20	152	0.087734		
	-10	133	0.076768		
	0	158	0.091198		
3.80	10	167	0.096392	±2.5	Pass
	20	152	0.087734		
	30	143	0.082540		
	40	152	0.087734		
	50	160	0.092352	†	
Reference F	requency: LTE Band		liddle channel=20175	channel=1732.50	MHz
Power supplied	Temperature (°ℂ)	Fre	equency error		
(Vdc)	remperature (C)	Hz	ppm	Limit (ppm)	Result
	-30	174	0.100433		
	-20	125	0.072150		
	-10	126	0.072727		
	0	134	0.077345	7	
3.80	10	160	0.092352	±2.5	Doco
3.80	20	152	0.092332	±∠.5	Pass
		102	0.001104		
	30 40	148 155	0.085426 0.089466		



		LTE Band	7(QPSK):		
Reference Fr	equency: LTE Band	7(5MHz) Mid	ddle channel=21100Fre	equency=2535.00)MHz
Power supplied	Temperature (°C)	Fr	equency error		D 1
(Vdc)	Temperature (C)	Hz	ppm	Limit (ppm)	Result
	-30	170	0.067061		
	-20	166	0.065483		
	-10	145	0.057199		
	0	125	0.049310		
3.80	10	123	0.048521	±2.5	Pass
	20	130	0.051282	<u> </u>	1 433
	30	105	0.041420		
	40	124	0.048915		
	50	126	0.049704		
Reference Fre			ddle channel=21100 Fi	requency=2535.0	0MHz
Power supplied			equency error		0111112
(Vdc)	Temperature (°C)	Hz	ppm	Limit (ppm)	Result
,	-30	146	0.057594		
	-20	123	0.048521		
	-10	120	0.047337		
	0	114	0.044970	_	
3.80	10	105	0.041420		5
3.00	20	103		±2.5	Pass
	30	124	0.040631		
			0.048915		
	40	126	0.049704		
D-f	50	134	0.052860		01411-
	equency: LIE Band /	'	ddle channel=21100 Fr	requency=2535.0	UIVIHZ
Power supplied (Vdc)	Temperature (°C)	Hz	equency error	Limit (ppm)	Result
(Vuc)	-30	142	ppm 0.056016		
	-20	120	0.047337		
	-10	102	0.040237		
	0	113	0.044576		
3.80	10	116	0.045759	±2.5	Pass
	20	108	0.042604		
	30	123	0.048521		
	40	126	0.049704		
	50	134	0.052860		
	equency: LTE Band 7	` ,	ddle channel=21100 Fr	requency=2535.0	0MHz
Power supplied	Temperature (°C)		equency error	Limit (ppm)	Result
(Vdc)	` '	Hz	ppm	(1-15)	
	-30	177	0.069822	-	
	-20 -10	163 125	0.064300 0.049310	-	
	0	108	0.042604	-	
3.80	10	152	0.042604	±2.5	Pass
0.00	20	163	0.064300		1 433
		. 50	5.55 1000		
	30	142	0.056016		
	30 40	142 105	0.056016 0.041420	-	

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D (LTE Band		2525.24	25.41.1
	requency: LTE Band	,	ddle channel=21100Fre	equency=2535.00)MHz
Power supplied	Temperature (°C)	Fr	Frequency error		Result
(Vdc)	, (1)	Hz	ppm	Limit (ppm)	Nesuit
	-30	152	0.059961		
	-20	122	0.048126		
	-10	103	0.040631		
	0	113	0.044576		
3.80	10	124	0.048915	±2.5	Pass
	20	106	0.041815		
	30	133	0.052465		
	40	124	0.048915	_	
	50	125	0.049310		
Reference Fr			ddle channel=21100 Fr	requency=2535 (00MHz
Power supplied			equency error		.0
(Vdc)	Temperature (°C)			Limit (ppm)	Result
(100)	-30	Hz 167	ppm		
			0.065878	_	
	-20	152	0.059961		
	-10	142	0.056016	±2.5	Pass
	0	133	0.052465		
3.80	10	116	0.045759		
	20	108	0.042604		
	30	126	0.049704		
	40	137	0.054043		
	50	105	0.041420		
	equency: LTE Band 7	·	ddle channel=21100 Fr	requency=2535.0	00MHz
Power supplied	Temperature (°C)		equency error	Limit (ppm)	Result
(Vdc)	. , ,	Hz	ppm	(pp)	- 11000
	-30	166	0.065483		
	-20	152 142	0.059961		
	-10 0	130	0.056016 0.051282		
3.80	10	142	0.056016	2.5	Pass
0.00	20	102	0.040237		1 400
	30	124	0.048915	_	
	40	130	0.051282		
	50	122	0.048126		
Reference Fr	equency: LTE Band 7	(20MHz) Mi	ddle channel=21100 Fr	requency=2535.0	00MHz
Power supplied	Temperature (°C)		equency error	Limit (ppm)	Result
(Vdc)		Hz	ppm	Еппт (ррпп)	Result
	-30	141	0.055621	4	
	-20	125	0.049310	_	
	-10 0	103 106	0.040631	-	
3.80	10	140	0.041815 0.055227	2.5	Pass
3.00	20	105	0.055227		F d 5 5
	30	116	0.041420	†	
	40	125	0.049310	1	
	50	136	0.053649	1	
			,	1	

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LTE Band 17(QPSK):

Reference Frequency: LTE Band 17(5MHz) Middle channel=23790 channel=710.00MHz					
Power supplied	Temperature (°C)	Frequency error		l iit ()	D It
(Vdc)	Tomporatoro (C)	Hz	ppm	Limit (ppm)	Result
	-30	163	0.229577		
	-20	142	0.200000		
	-10	125	0.176056		
	0	130	0.183099		
3.80	10	104	0.146479	±2.5	Pass
	20	125	0.176056		1 435
	30	146	0.205634		
	40	123	0.173239		
	50	108	0.152113		
Reference F	requency: LTE Band	17(10MHz)	Middle channel=23790	channel=710.00	MHz
Power supplied	Temperature (°C)	Fr	equency error		
(Vdc)	Temperature (C)	Hz	ppm	Limit (ppm)	Result
	-30	167	0.235211		
	-20	152	0.214085		
	-10	142	0.200000		
	0	103	0.145070		
3.80	10	123	0.173239	±2.5	Pass
	20	142	0.200000		
	30	105	0.147887		
	40	144	0.202817		
	50	120	0.169014		

LTE Band 17(16QAM):

Reference Frequency: LTE Band 17(16QAM): Reference Frequency: LTE Band 17(5MHz) Middle channel=23790 channel=710.00MHz					
Power supplied		Frequency error			VII IZ
(Vdc)	Temperature (°C)	Hz	ppm	Limit (ppm)	Result
, ,	-30	195	0.274648		
	-20	124	0.174648		
	-10	132	0.185915		
	0	105	0.147887		
3.80	10	141	0.198592	±2.5	Pass
	20	155	0.218310		
	30	166	0.233803		
	40	144	0.202817		
	50	172	0.242254		
Reference F	requency: LTE Band	17(10MHz)	Middle channel=23790	channel=710.00	MHz
Power supplied	Temperature (°C)	Fr	Frequency error		Danult
(Vdc)		Hz	ppm	Limit (ppm)	Result
	-30	156	0.219718		1
	-20	128	0.180282		
	-10	142	0.200000		
	0	102	0.143662		
3.80	10	123	0.173239	±2.5	Pass
	20	116	0.163380		
	30	118	0.166197	_	
	40	104	0.146479		
	50	126	0.177465		





6.13 Frequency stability V.S. Voltage measurement

Test Requirement:	Part 24.235, Part 27.54, Part 2.1055(d)(2)
Test Method:	FCC Part2.1055(d)(1)(2)
Limit:	2.5ppm
Test setup:	Spectrum analyzer EUT Att. Variable Power Supply
Test procedure:	 Note: Measurement setup for testing on Antenna connector 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, and all channels have been tested, only shows the worst channel data in this report.
Test results:	Passed



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Measurement Data (the worst channel):

LTE Band 2(QPSK):

Reference Frequency: LTE Band 2(1.4MHz) Middle channel=18900 channel=1880.00MHz	LTE Band 2(QPSK):							
Comperature (C)	Reference Frequency: LTE Band 2(1.4MHz) Middle channel=18900 channel=1880.00MHz							
(Vdc)	Temperature (°C)	Power supplied	Freque	ncy error	Line it (none)	D !!		
25 3.80 62 0.032979 ±2.5 Pass		(Vdc)	Hz	ppm	Limit (ppm)	Result		
3.23 52 0.027660		4.37	74	0.039362	_			
Reference Frequency: LTE Band 2(3MHz) Middle channel=18900 channel=1880.00MHz	25	3.80	62	0.032979	±2.5	Pass		
Temperature (°C)		3.23	52	0.027660				
Temperature (°C)	Reference F	requency: LTE Band	d 2(3MHz) Middle	channel=18900 c	hannel=1880.00ľ	ИНz		
Power supplied (Vdc) Hz Ppm Limit (ppm) Result	- (25)	Power supplied	Freque	ncy error				
25 3.80 80 0.0425532 ±2.5 Pass	Temperature (°C)	7 -	Hz	ppm	Limit (ppm)	Result		
3.23 60 0.0319149			67	0.0356383				
Reference Frequency: LTE Band 2(5MHz) Middle channel=18900 channel=1880.00MHz Temperature (°C)	25	3.80	80	0.0425532	±2.5	Pass		
Power supplied (Vdc)		3.23	60	0.0319149				
Temperature (°C)	Reference F	requency: LTE Band	d 2(5MHz) Middle	channel=18900 c	hannel=1880.00 l	МНz		
Comparature		Power supplied	Freque	ncy error				
25	Temperature (℃)	7 -	Hz	ppm	Limit (ppm)	Result		
Reference Frequency: LTE Band 2(10MHz) Middle channel=18900 channel=1880.00MHz Temperature (°C) Power supplied (Vdc) Hz ppm Limit (ppm) Result		` '	74	0.039362	±2.5			
Reference Frequency: LTE Band 2(10MHz) Middle channel=18900 channel=1880.00MHz Temperature (°C)	25	3.80	80	0.042553		Pass		
Temperature (°C) Power supplied (Vdc) Frequency error Limit (ppm) Result 25 4.37 74 0.039362 ±2.5 Pass 3.23 63 0.03511 ±2.5 Pass Temperature (°C) Power supplied (Vdc) Frequency error Limit (ppm) Result 4.37 88 0.046809 ±2.5 Pass 3.80 74 0.039362 ±2.5 Pass 3.23 68 0.036170 ±2.5 Pass Temperature (°C) Power supplied (Vdc) Frequency error Limit (ppm) Result Temperature (°C) Power supplied (Vdc) Frequency error Limit (ppm) Result 4.37 55 0.029255 ±2.5 Pass		3.23	96	0.051064				
Temperature (℃) (Vdc) Hz ppm Limit (ppm) Result 25 4.37 74 0.039362 ±2.5 Pass 3.80 52 0.027660 ±2.5 Pass 3.23 63 0.033511 Limit (ppm) Pass Temperature (℃) Power supplied (Vdc) Frequency error Limit (ppm) Result 4.37 88 0.046809 ±2.5 Pass 3.23 68 0.036170 ±2.5 Pass Reference Frequency: LTE Band 2(20MHz) Middle channel=20175 channel=1880.00MHz Temperature (℃) Power supplied (Vdc) Frequency error Limit (ppm) Result 4.37 55 0.029255 Limit (ppm) Result 4.37 55 0.029255 ±2.5 Pass	Reference F	requency: LTE Band	2(10MHz) Middle	channel=18900	channel=1880.00	MHz		
Temperature (C)		Power supplied	Frequency error					
A.37	Temperature (℃)		Hz	ppm	Limit (ppm)	Result		
3.23 63 0.033511			74	0.039362				
Reference Frequency: LTE Band 2(15MHz) Middle channel=18900 channel=1880.00MHz Temperature (℃) Power supplied (Vdc) Frequency error Hz (ppm) Limit (ppm) Result 25 3.80 74 0.039362 ±2.5 Pass 3.23 68 0.036170 Description (Vdc) Frequency error (Vdc) Limit (ppm) Result Temperature (℃) Power supplied (Vdc) Frequency error Hz (Vdc) Limit (ppm) Result 4.37 55 0.029255 25 Pass 25 3.80 74 0.039362 ±2.5 Pass	25	3.80	52	0.027660	±2.5	Pass		
Temperature (°C) Power supplied (Vdc) Frequency error Hz Limit (ppm) Result 25 3.80 74 0.039362 ±2.5 Pass 3.23 68 0.036170 ±2.5 Pass Reference Frequency: LTE Band 2(20MHz) Middle channel=20175 channel=1880.00MHz Temperature (°C) Power supplied (Vdc) Frequency error Hz Limit (ppm) Result 4.37 55 0.029255 25 Pass 25 3.80 74 0.039362 ±2.5 Pass		3.23	63	0.033511	1			
Temperature (°C) (Vdc) Hz ppm Limit (ppm) Result 4.37 88 0.046809 ±2.5 Pass 3.80 74 0.039362 ±2.5 Pass 3.23 68 0.036170 Temperature Frequency: LTE Band 2(20MHz) Middle channel=20175 channel=1880.00MHz Temperature (°C) Power supplied (Vdc) Frequency error Limit (ppm) Result 4.37 55 0.029255 Limit (ppm) Pass	Reference F	requency: LTE Band	2(15MHz) Middle	channel=18900	channel=1880.00	MHz		
Columberature Columberatur		Power supplied	Frequei	ncy error				
25 3.80 74 0.039362 ±2.5 Pass 3.23 68 0.036170 Temperature (°C) Power supplied (Vdc) Frequency error Hz Limit (ppm) Result 4.37 55 0.029255 25 3.80 74 0.039362 ±2.5 Pass	Temperature (℃)	7 -	Hz	ppm	Limit (ppm)	Result		
3.23 68 0.036170			88	0.046809				
Reference Frequency: LTE Band 2(20MHz) Middle channel=20175 channel=1880.00MHz Temperature (°C) Power supplied (Vdc) Frequency error Hz Limit (ppm) Result 4.37 55 0.029255 25 25 Pass	25	3.80	74		±2.5	Pass		
Reference Frequency: LTE Band 2(20MHz) Middle channel=20175 channel=1880.00MHz Temperature (°C) Power supplied (Vdc) Frequency error Limit (ppm) Result 4.37 55 0.029255 25 Pass		3.23	68		1			
Temperature (℃) (Vdc) Hz ppm Limit (ppm) Result 4.37 55 0.029255 25 25 3.80 74 0.039362 ±2.5 Pass	Reference F	requency: LTE Band	2(20MHz) Middle		channel=1880.00	MHz		
Columbia		Power supplied	Frequei	ncy error				
4.37 55 0.029255 25 3.80 74 0.039362 ±2.5 Pass	Temperature (℃)	7 -	_	-	Limit (ppm)	Result		
25 3.80 74 0.039362 ±2.5 Pass	25							
		3.80			±2.5	Pass		
		3.23						





LTE Band 2(16QAM):

		LTE Band 2(16	QAM):		
Reference Fi	requency: LTE Band	2(1.4MHz) Middle	e channel=18900	channel=1880.00	MHz
Tamanarat: (°C)	Power supplied	Frequer	ncy error	Limit (none)	Danult
Temperature (℃)	(Vdc)	Hz	ppm	Limit (ppm)	Result
	4.37	85	0.045213		
25	3.80	74	0.039362	±2.5	Pass
	3.23	63	0.033511		
Reference F	requency: LTE Band	2(3MHz) Middle	channel=18900 d	channel=1880.00N	1Hz
	Power supplied	Frequer	ncy error		
Temperature (°C)	(Vdc)	Hz	ppm	Limit (ppm)	Result
	4.37	85	0.045213		
25	3.80	65	0.034574	±2.5	Pass
	3.23	90	0.047872	1	
Reference F	requency: LTE Band			channel=1880.00N	ИНz
	Power supplied	,	ncy error		
Temperature (°C)	(Vdc)	Hz	ppm	Limit (ppm)	Result
	4.37	74	0.039362	±2.5	
25	3.80	52	0.027660		Pass
	3.23	80	0.042553		
Reference F	requency: LTE Band	2(10MHz) Middle	channel=18900	channel=1880.00l	ИНz
	Power supplied	Frequency error			
Temperature (°C)	(Vdc)	Hz	ppm	Limit (ppm)	Result
	4.37	74	0.039362		
25	3.80	63	0.033511	±2.5	Pass
	3.23	52	0.027660		
Reference F	requency: LTE Band			channel=1880.00l	MHz
	Power supplied	, ,	ncy error		
Temperature (°C)	(Vdc)	Hz	ppm	Limit (ppm)	Result
25	4.37	88	0.046809		
	3.80	72	0.038298	±2.5	Pass
	3.23	65	0.034574		. 466
Reference F	requency: LTE Band			channel=1880.00l	MHz
	Power supplied	, ,	ncy error		
Temperature (°C)	(Vdc)	Hz	ppm	Limit (ppm)	Result
25	4.37	87	0.046277		
	3.80	45	0.023936	±2.5	Pass
	3.23	90	0.023930		1 000
	0.20	∌ U	0.04/0/2		





LTE Band 4(QPSK):							
Reference Frequency: LTE Band 4(1.4MHz) Middle channel=20175 channel=1732.50MHz							
Tomorous (%C)	Power supplied	Frequer	ncy error	1	D 1		
Temperature (℃)	(Vdc)	Hz	ppm	Limit (ppm)	Result		
	4.37	74	0.042713				
25	3.80	65	0.037518	±2.5	Pass		
	3.23	55	0.031746				
Reference F	requency: LTE Band	4 4(3MHz) Middle	channel=20175 c	hannel=1732.50	ИHz		
- (00)	Power supplied	Frequer	ncy error		_		
Temperature (°C)	(Vdc)	Hz	ppm	Limit (ppm)	Result		
	4.37	74	0.042713				
25	3.80	58	0.033478	±2.5	Pass		
	3.23	74	0.042713	7			
Reference F	requency: LTE Band	4(5MHz) Middle	channel=20175 c	hannel=1732.50	ИНz		
	Power supplied	Frequer	ncy error				
Temperature (°C)	(Vdc)	Hz	ppm	Limit (ppm)	Result		
	4.37	56	0.032323				
25	3.80	80	0.046176	±2.5	Pass		
-	3.23	74	0.042713				
Reference F	requency: LTE Band	4(10MHz) Middle	channel=20175	channel=1732.50	MHz		
	Power supplied	Frequer	ncy error				
Temperature (°C)	(Vdc)	Hz	ppm	Limit (ppm)	Result		
	4.37	90	0.051948				
25	3.80	85	0.049062	±2.5	Pass		
	3.23	63	0.036364				
Reference F	requency: LTE Band			channel=1732.50	MHz		
	Power supplied	,	ncy error				
Temperature (°C)	(Vdc)	Hz	ppm	Limit (ppm)	Result		
	4.37	75	0.04329				
25	3.80	85	0.049062	±2.5	Pass		
	3.23	74	0.042713		. 0.00		
Reference Frequency: LTE Band 4(20MHz) Middle channel=20175 channel=1732.50MHz							
	Power supplied	,	ncy error				
Temperature ($^{\circ}$ C)	(Vdc)	Hz	ppm	Limit (ppm)	Result		
	4.37	72	0.041558				
25	3.80	92	0.053102	±2.5	Pass		
20	3.23	85	0.049062		. 400		
	1		0.010002				





LTE Band 4(16QAM):

Reference Frequency: LTE Band 4(1.4MHz) Middle channel=20175 channel=1732.50MHz	LTE Band 4(16QAM):							
Comperature (C)	Reference Frequency: LTE Band 4(1.4MHz) Middle channel=20175 channel=1732.50MHz							
(Vdc)	Temperature (\mathbb{C})	Power supplied	Frequer	ncy error	1.1	Dogult		
Section Sect		(Vdc)	Hz	ppm	Limit (ppm)	Result		
3.23		4.37	74	0.042713				
Reference Frequency: LTE Band 4(3MHz) Middle channel=20175 channel=1732.50MHz	25	3.80	63	0.036364	±2.5	Pass		
Temperature (℃) Power supplied (Vdc) Frequency error Hz Limit (ppm) Result 25 3.80 88 0.050794 ±2.5 Pass 3.23 74 0.042713 ±2.5 Pass Temperature (℃) Power supplied (Vdc) Hz ppm Limit (ppm) Result 25 3.80 85 0.049062 ±2.5 Pass 25 3.80 85 0.049062 ±2.5 Pass 25 3.80 85 0.049062 ±2.5 Pass Temperature (℃) Power supplied (Vdc) Frequency error Limit (ppm) Result 25 3.80 56 0.032323 ±2.5 Pass 3.23 77 0.044444 ±2.5 Pass 25 3.80 56 0.032323 ±2.5 Pass Temperature (℃) Power supplied (Vdc) Frequency error Limit (ppm) Result Temperature (℃) Power supplied (Vdc) Frequency error <td< td=""><td></td><td>3.23</td><td>85</td><td>0.049062</td><td></td><td></td></td<>		3.23	85	0.049062				
Temperature (°C) (Vdc) Hz ppm Limit (ppm) Result 25 4.37 95 0.054834 ±2.5 Pass 3.80 88 0.050794 ±2.5 Pass 3.23 74 0.042713 ±2.5 Pass Temperature (°C) Power supplied (Vdc) Frequency error Limit (ppm) Result 25 3.80 85 0.049062 ±2.5 Pass 3.23 71 0.049081 ±2.5 Pass Temperature (°C) Power supplied (Vdc) Frequency error Limit (ppm) Result 4.37 77 0.044444 ±2.5 Pass 3.23 90 0.051948 ±2.5 Pass Temperature (°C) Power supplied (Vdc) Frequency error Limit (ppm) Result Temperature (°C) Power supplied (Vdc) Hz ppm Limit (ppm) Result Temperature (°C) Power supplied (Vdc) Hz ppm Limit (ppm) R	Reference F	requency: LTE Band	d 4(3MHz) Middle	channel=20175 c	hannel=1732.50N	ИHz		
A4.37 95 0.054834 ±2.5 Pass	- (00)	Power supplied	Frequer	ncy error		_		
25 3.80 88 0.050794 ±2.5 Pass	Temperature (℃)	• •	Hz	ppm	Limit (ppm)	Result		
3.23 74 0.042713		` '	95	0.054834				
Reference Frequency: LTE Band 4(5MHz) Middle channel=20175 channel=1732.50MHz Temperature (℃) Power supplied (Vdc) Frequency error Hz Limit (ppm) Result 25 3.80 85 0.049062 ±2.5 Pass 3.23 71 0.040981 ±2.5 Pass Temperature (℃) Power supplied (Vdc) Frequency error Hz Limit (ppm) Result 25 3.80 56 0.032323 ±2.5 Pass 3.23 90 0.051948 ±2.5 Pass Temperature (℃) Power supplied (Vdc) Frequency error Limit (ppm) Result 4.37 85 0.049062 ±2.5 Pass 25 3.80 85 0.049062 ±2.5 Pass 25 3.80 85 0.049062 ±2.5 Pass Temperature (℃) Power supplied (Vdc) Frequency error Limit (ppm) Result Temperature (℃) Power supplied (Vdc) Frequency error Limit (ppm) Result </td <td>25</td> <td>3.80</td> <td>88</td> <td></td> <td>±2.5</td> <td>Pass</td>	25	3.80	88		±2.5	Pass		
Temperature (°C)		3.23	74	0.042713				
Temperature (°C)	Reference F	requency: LTE Band	4(5MHz) Middle	channel=20175 c	hannel=1732.50N	ИНz		
Power supplied (Vdc)		Power supplied	Frequer	ncy error				
A.37 63 0.036364 25 Pass	Temperature (°C)		Hz	ppm	Limit (ppm)	Result		
Reference Frequency: LTE Band 4(10MHz) Middle channel=20175 channel=1732.50MHz Temperature (°C)		\ /	63	0.036364	±2.5			
Reference Frequency: LTE Band 4(10MHz) Middle channel=20175 channel=1732.50MHz Temperature (°C)	25	3.80	85	0.049062		Pass		
Temperature (℃) Power supplied (Vdc) Frequency error Limit (ppm) Result 25 4.37 77 0.044444 ±2.5 Pass 3.80 56 0.032323 ±2.5 Pass 3.23 90 0.051948 ±2.5 Pass Reference Frequency: LTE Band 4(15MHz) Middle channel=20175 channel=1732.50MHz Temperature (℃) Power supplied (Vdc) Hz ppm Limit (ppm) Result 25 3.80 85 0.049062 ±2.5 Pass 3.23 74 0.042713 ±2.5 Pass Reference Frequency: LTE Band 4(20MHz) Middle channel=20175 channel=1732.50MHz Temperature (℃) Power supplied (Vdc) Frequency error Limit (ppm) Result 4.37 68 0.03925 Limit (ppm) Result 4.37 68 0.03925 2 0.030014 ±2.5 Pass		3.23	71					
Temperature (°C)	Reference F	requency: LTE Band	4(10MHz) Middle	channel=20175	channel=1732.50	MHz		
Temperature (°C)		Power supplied	Frequency error					
A.37	Temperature (℃)		Hz	ppm	Limit (ppm)	Result		
3.23 90 0.051948		` '	77	0.044444				
Reference Frequency: LTE Band 4(15MHz) Middle channel=20175 channel=1732.50MHz Temperature (°C)	25	3.80	56	0.032323	±2.5	Pass		
Temperature (℃) Power supplied (Vdc) Frequency error Limit (ppm) Result 25 4.37 85 0.049062 ±2.5 Pass 3.23 74 0.042713 ±2.5 Pass Reference Frequency: LTE Band 4(20MHz) Middle channel=20175 channel=1732.50MHz Temperature (℃) Power supplied (Vdc) Frequency error Hz Limit (ppm) Result 4.37 68 0.03925 Limit (ppm) Result 25 3.80 52 0.030014 ±2.5 Pass		3.23	90		1			
Temperature (℃) (Vdc) Hz ppm Limit (ppm) Result 4.37 85 0.049062 ±2.5 Pass 3.80 85 0.049062 ±2.5 Pass 3.23 74 0.042713 Channel=1732.50MHz Temperature (℃) Power supplied (Vdc) Frequency error Limit (ppm) Result 4.37 68 0.03925 Limit (ppm) Result 25 3.80 52 0.030014 ±2.5 Pass	Reference F	requency: LTE Band	4(15MHz) Middle	channel=20175	channel=1732.50	MHz		
Temperature (°C) (Vdc) Hz ppm Limit (ppm) Result 4.37 85 0.049062 ±2.5 Pass 3.80 85 0.049062 ±2.5 Pass 3.23 74 0.042713 Channel=1732.50MHz Temperature (°C) Power supplied (Vdc) Frequency error Limit (ppm) Result 4.37 68 0.03925 Limit (ppm) Result 25 3.80 52 0.030014 ±2.5 Pass		Power supplied	Frequer	ncy error				
25 3.80 85 0.049062 ±2.5 Pass 3.23 74 0.042713 ±2.5 Pass Reference Frequency: LTE Band 4(20MHz) Middle channel=20175 channel=1732.50MHz Temperature (°C) Power supplied (Vdc) Frequency error Limit (ppm) Result 4.37 68 0.03925 25 Pass	Temperature (℃)	• •	Hz	ppm	Limit (ppm)	Result		
25 3.80 85 0.049062 ±2.5 Pass 3.23 74 0.042713 Reference Frequency: LTE Band 4(20MHz) Middle channel=20175 channel=1732.50MHz Temperature (°C) Power supplied (Vdc) Frequency error Limit (ppm) Result 4.37 68 0.03925 25 0.030014 ±2.5 Pass		`	85	0.049062				
Reference Frequency: LTE Band 4(20MHz) Middle channel=20175 channel=1732.50MHz Temperature (°C) Power supplied (Vdc) Frequency error Hz Limit (ppm) Result 4.37 68 0.03925 ±2.5 Pass	25	3.80	85		±2.5	Pass		
Temperature (°C) Power supplied (Vdc) Frequency error Limit (ppm) Result 4.37 68 0.03925 25 3.80 52 0.030014 ±2.5 Pass		3.23	74	0.042713				
Temperature (°C) (Vdc) Hz ppm Limit (ppm) Result 4.37 68 0.03925 25 25 25 Pass								
Columberature Columberatur	- (00)	Power supplied	Frequer	ncy error				
4.37 68 0.03925 25 3.80 52 0.030014 ±2.5 Pass	Temperature (°C)	• •	Hz	ppm	Limit (ppm)	Result		
25 3.80 52 0.030014 ±2.5 Pass	25	\ /	68	0.03925				
		3.80			±2.5	Pass		
3.23 00 0.036095		3.23	66	0.038095				





LTE Band 7(QPSK):

			. •				
Reference Frequency: LTE Band 7(5MHz) Middle channel=21100 Frequency=2535.00MHz							
Temperature (°ℂ)	Power supplied	Frequency error		Limit (nnm)	Dogult		
remperature (C)	(Vdc)	Hz	ppm	Limit (ppm)	Result		
	4.37	77	0.030375				
25	3.80	85	0.033531	±2.5	Pass		
	3.23	84	0.033136				
Reference Fre	equency: LTE Band 7	(10MHz) Middle	channel=21100 Fr	equency=2535.0	00MHz		
Temperature (°ℂ)	Power supplied	Freque	ncy error	Limit (nnm)	Result		
remperature (C)	(Vdc)	Hz	ppm	Limit (ppm)	Result		
	4.37	67	0.026430	±2.5			
25	3.80	70	0.027613		Pass		
	3.23	55	0.021696				
Reference Fre	equency: LTE Band 7	(15MHz) Middle	channel=21100 Fr	equency=2535.0	00MHz		
Temperature (°ℂ)	Power supplied	Frequency error		Limit (nnm)	Dogult		
remperature (C)	(Vdc)	Hz	ppm	Limit (ppm)	Result		
	4.37	86	0.033925				
25	3.80	74	0.029191	±2.5	Pass		
	3.23	85	0.033531				
Reference Frequency: LTE Band 7(20MHz) Middle channel=21100 Frequency=2535.00MHz							
Temperature (°C)	Power supplied	Freque	ncy error	Limit (nnm)	Popult		
	(Vdc)	Hz	ppm	Limit (ppm)	Result		
	4.37	75	0.029586				
25	3.80	90	0.035503	±2.5	Pass		
	3.23	67	0.026430				





LTE Band 7(16QAM):

Reference Frequency: LTE Band 7(5MHz) Middle channel=21100 Frequency=2535.00MHz							
Temperature (°C)	Power supplied		ncy error	Limit (ppm)	Result		
, ,	(Vdc)	Hz	ppm	- (1-1)			
	4.37	88	0.034714				
25	3.80	75	0.029586	±2.5	Pass		
	3.23	63	0.024852				
Reference Fre	equency: LTE Band 7	(10MHz) Middle	channel=21100 Fr	equency=2535.0	00MHz		
Temperature (°C)	Power supplied	Freque	ncy error	Limit (nnm)	Result		
remperature (C)	(Vdc)	Hz	ppm	Limit (ppm)	Result		
	4.37	74	0.029191				
25	3.80	85	0.033531	±2.5	Pass		
	3.23	80	0.031558				
Reference Fre	equency: LTE Band 7	(15MHz) Middle	channel=21100 Fr	equency=2535.0	00MHz		
Tomporature (°C)	Power supplied	Frequency error		Limit (none)	Dooult		
Temperature (°C)	(Vdc)	Hz	ppm	Limit (ppm)	Result		
	4.37	74	0.029191				
25	3.80	63	0.024852	±2.5	Pass		
	3.23	85	0.033531				
Reference Frequency: LTE Band 7(20MHz) Middle channel=21100 Frequency=2535.00MHz							
Temperature ($^{\circ}\!\mathbb{C}$)	Power supplied	Freque	ncy error	Limit (none)	Dooult		
	(Vdc)	Hz	ppm	Limit (ppm)	Result		
25	4.37	77	0.030375				
	3.80	90	0.035503	±2.5	Pass		
	3.23	85	0.033531	1			





LTE Band 17(QPSK):

Reference Frequency: LTE Band 17(5MHz) Middle channel=23790 channel=710.00MHz							
Temperature (°C)	Power supplied		ncy error Limit (ppm)		Result		
,	(Vdc)	Hz	ppm				
	4.37	74	0.104225				
25	3.80	52	0.073239	±2.5	Pass		
	3.23	33	0.046479				
Reference F	requency: LTE Band	17(10MHz) Midd	le channel=23790	channel=710.00	MHz		
Temperature (°C)	Power supplied	Freque	Frequency error		Result		
remperature (C)	(Vdc)	Hz	ppm	Limit (ppm)	Result		
	4.37	74	0.104225				
25	3.80	80	0.112676	±2.5	Pass		
	3.23	96	0.135211				

LTE Band 17(16QAM):

LIE Band 17(16QAM):								
Reference F	Reference Frequency: LTE Band 17(5MHz) Middle channel=23790 channel=710.00MHz							
Temperature (°C)	Power supplied		ncy error	Limit (ppm)	Result			
Tomporataro (e)	(Vdc)	Hz	ppm	Σ (ββ)	rtoodit			
	4.37	72	0.101408					
25	3.80	82	0.115493	±2.5	Pass			
	3.23	66	0.092958					
Reference F	requency: LTE Band	17(10MHz) Midd	le channel=23790	channel=710.00	MHz			
Temperature (°C)	Power supplied	Frequency error		Limit (nnm)	Result			
remperature (C)	(Vdc)	Hz	ppm	Limit (ppm)	Result			
	4.37	74	0.104225					
25	3.80	87	0.122535	±2.5	Pass			
	3.23	90	0.126761					