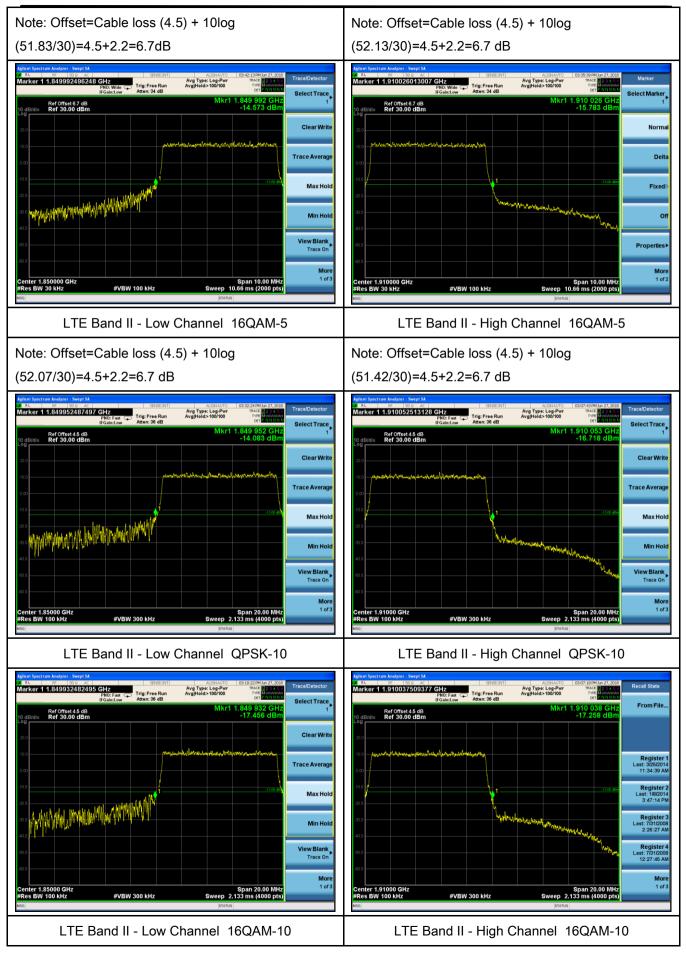
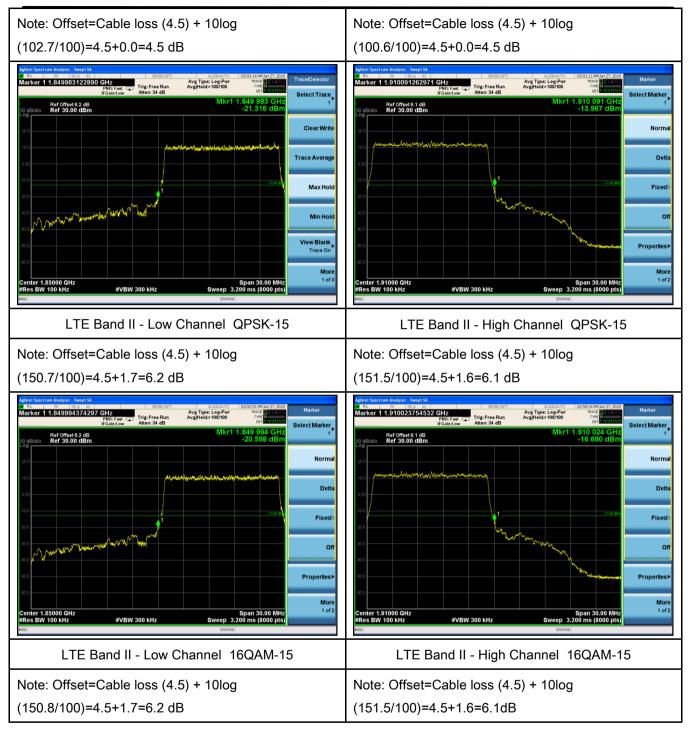


Test Report	18070621-FCC-R5
Page	110 of 136



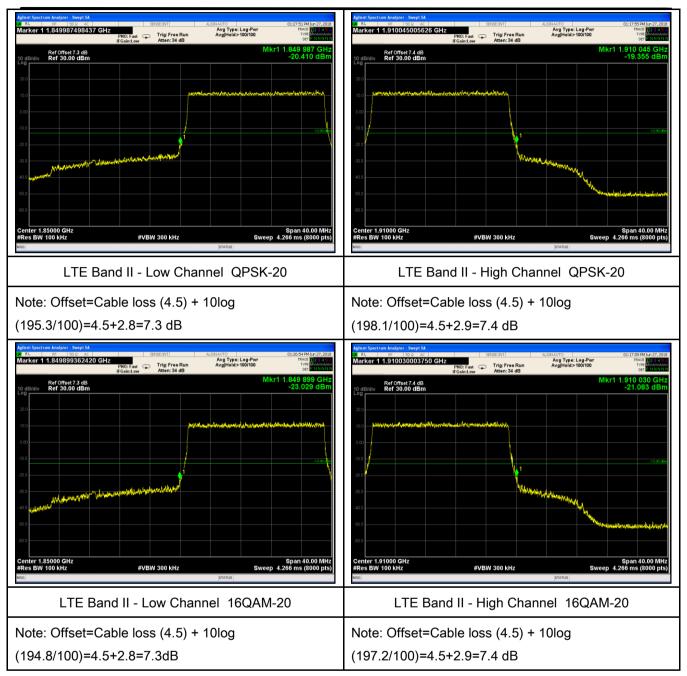


Test Report	18070621-FCC-R5
Page	111 of 136





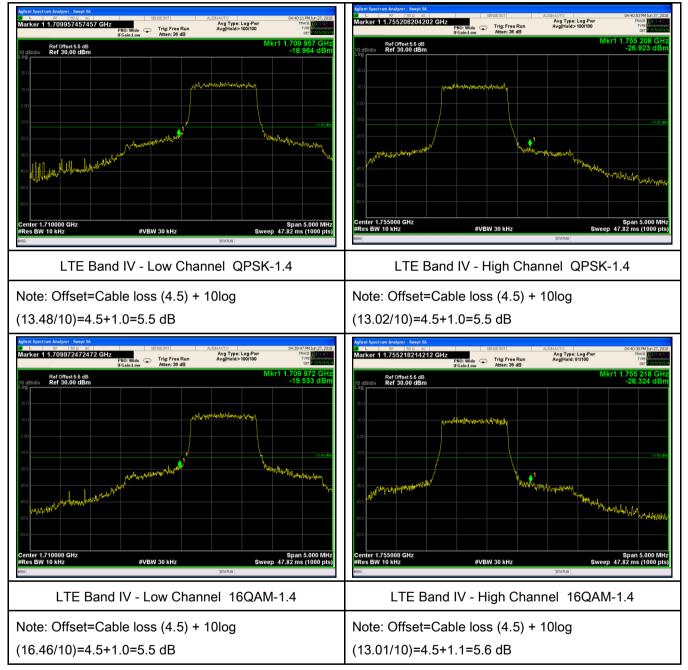
Test Report	18070621-FCC-R5
Page	112 of 136





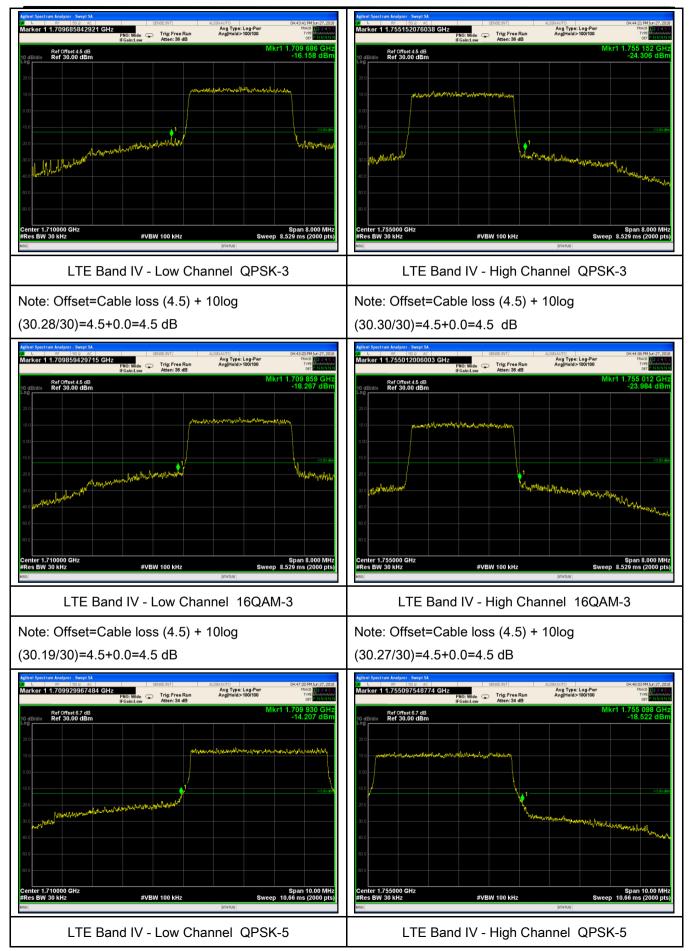
Test Report	18070621-FCC-R5
Page	113 of 136

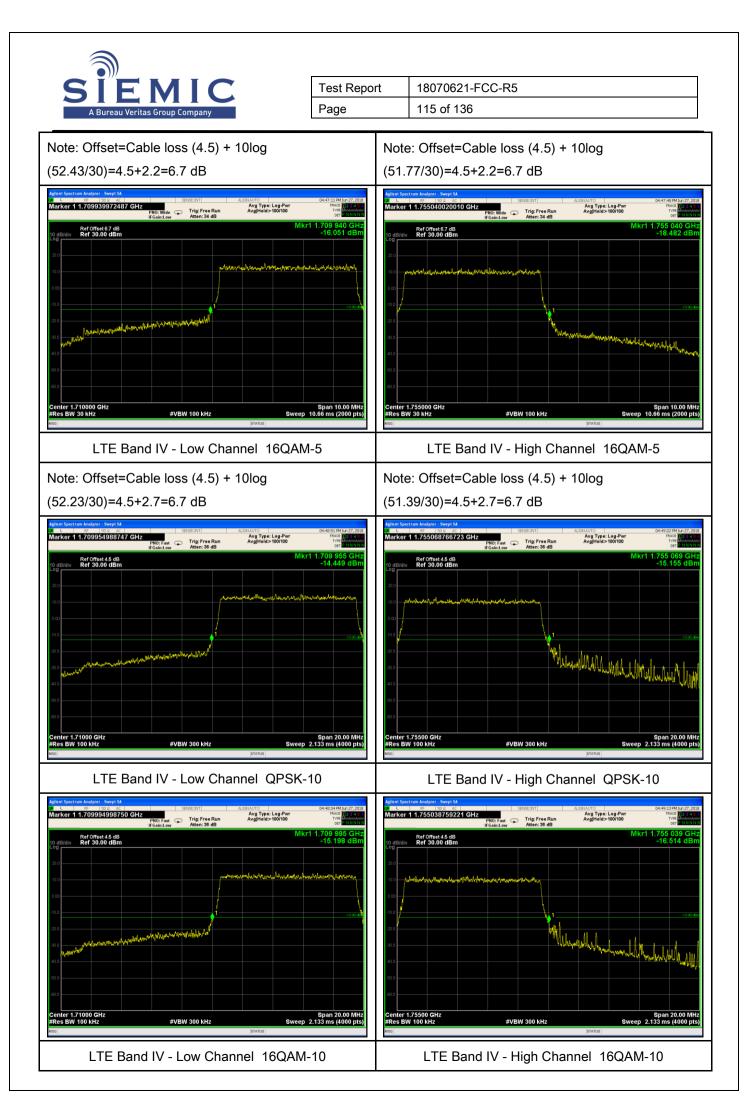
LTE Band IV (Part 27)





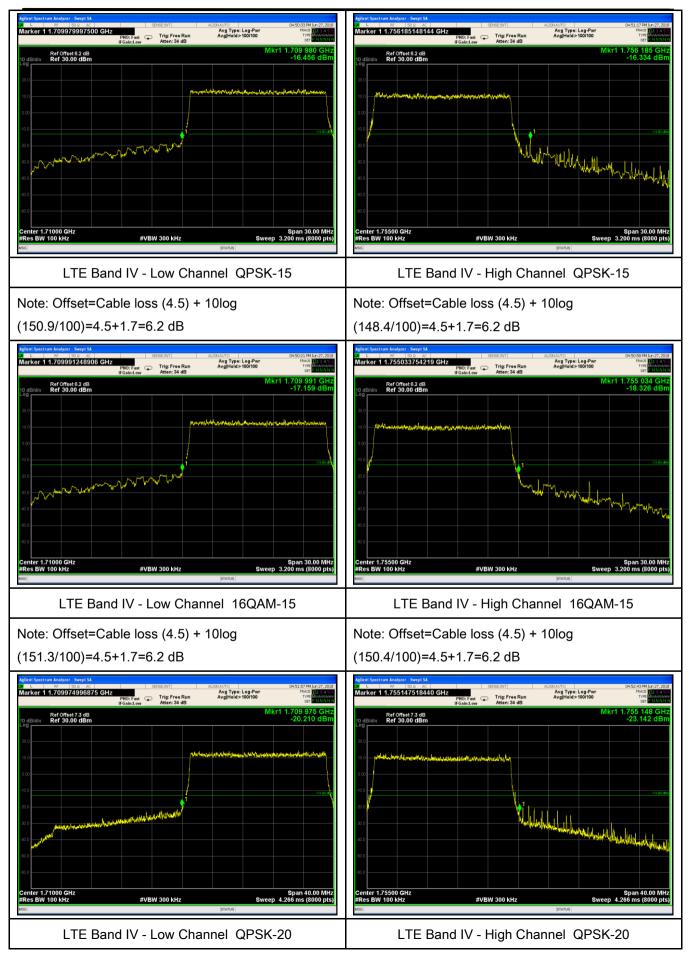
Test Report	18070621-FCC-R5
Page	114 of 136

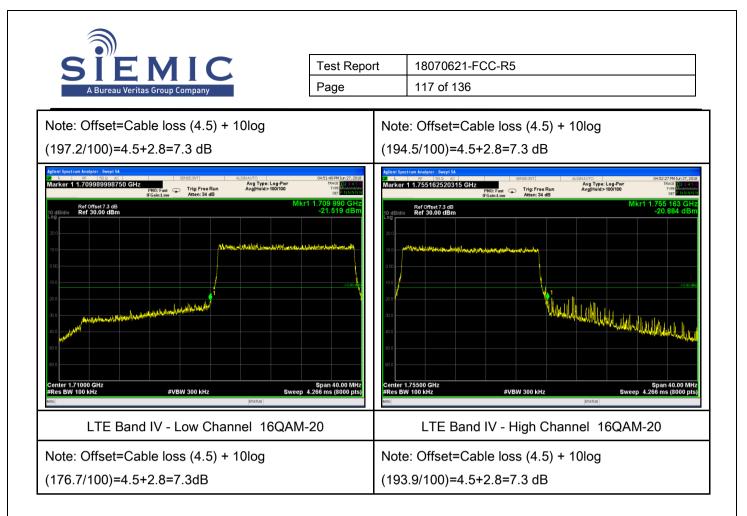






Test Report	18070621-FCC-R5
Page	116 of 136

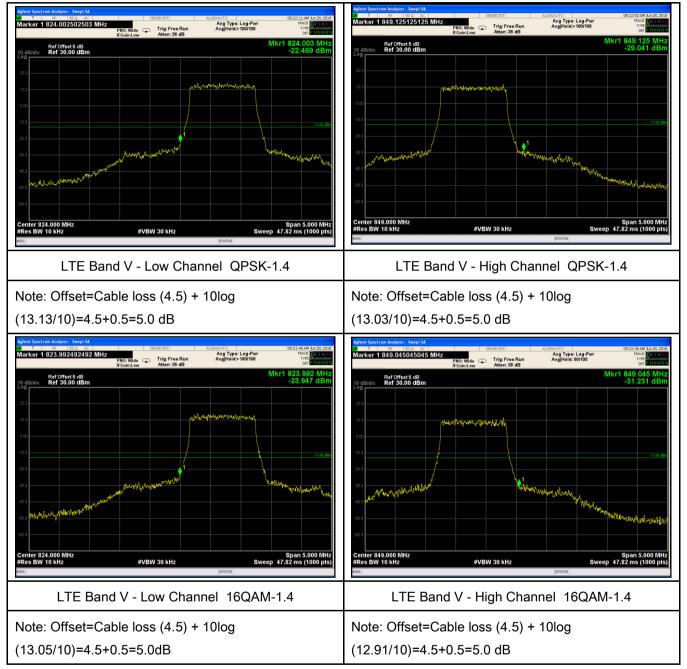






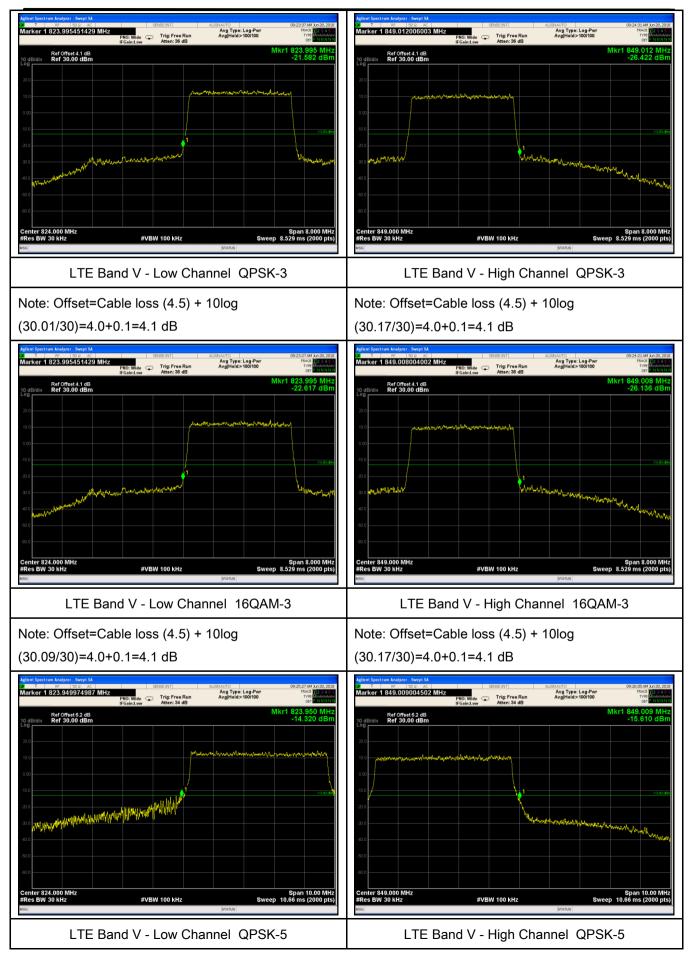
Test Report	18070621-FCC-R5
Page	118 of 136

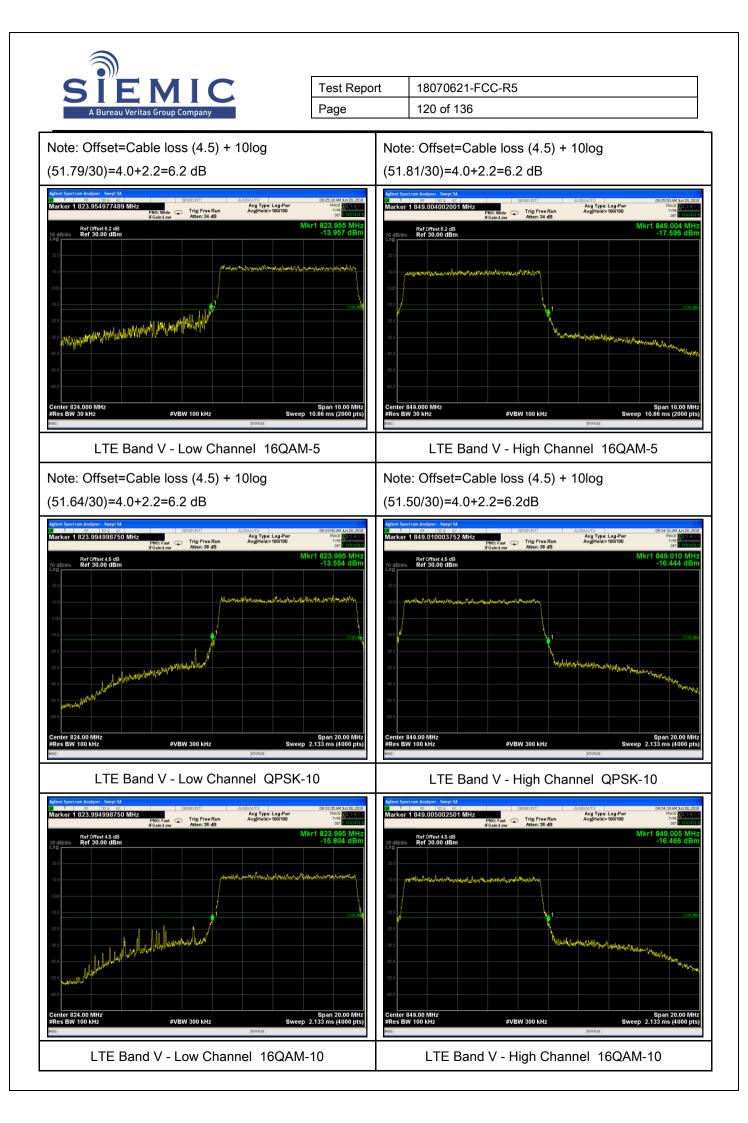
LTE Band V (Part 22H)





Test Report	18070621-FCC-R5
Page	119 of 136







 Test Report
 18070621-FCC-R5

 Page
 121 of 136

6.8 Band Edge 27.53(m)

Temperature	24°C
Relative Humidity	57%
Atmospheric Pressure	1022mbar
Test date :	June 28, 2018
Tested By :	Aarron Liang

Requirement(s):

Spec	Requirement Applicable				
	According to FCC 27.53(m)(4) specified that power of any				
	emmission ouutside of the channel edge must be attenuated below				
	the transmitting power(P) by a factor shall be not less than 43+10log				
	(P)dB at the channel edge, the limit of emission equal to -13dBm.				
§27.53(m)	And 55+10log (P)dB at 5.5MHz from the channel edges, the limit of				
	emission equal to -25dBm. In the 1MHz bands immediately outside				
	and adjacent to the frengency block a resolution bandwidth of at				
	least one percent of the emission bandwidth of the fundamental				
	emission of the transmitter may be employed.				
Test Setup	Base Station Spectrum Analyzer				
	- The EUT was connected to Spectrum Analyzer and Base Station	on via power			
Test	divider.				
Procedure	- The 99% and 26 dB occupied bandwidth (BW) of the middle channel for the				
	highest RF powers.				
Remark					
Result	Pass Fail				
Test Data	Yes N/A				
Test Plot	Yes (See below)				



 Test Report
 18070621-FCC-R5

 Page
 122 of 136

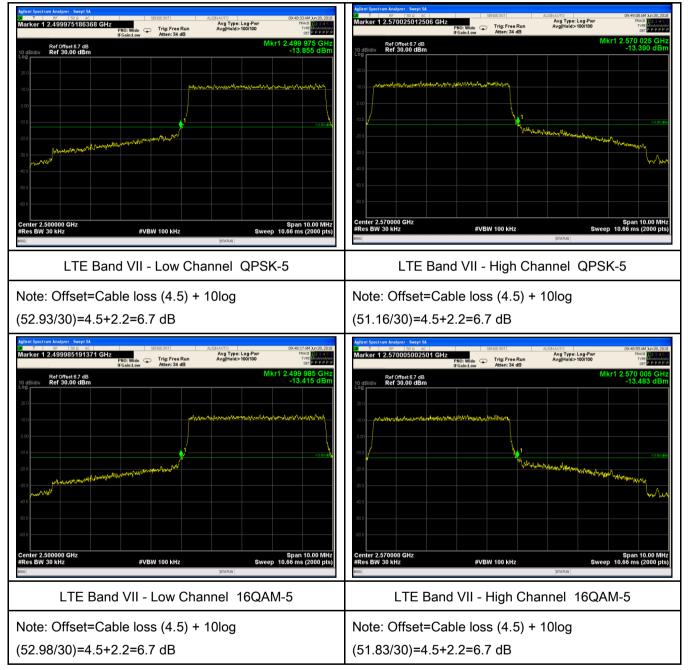
LTE Band VII (Part 27) result

BW(MHz)	Channel	Frequency (MHz)	Mode	Emission (dBm)	Limit (dBm)
_	00775		QPSK	-13.855	-13
5	20775	2500	16QAM	-13.415	-13
5	21425	0570	QPSK	-13.390	-13
5	21425	2570	16QAM	-13.483	-13
10	20800	2500	QPSK	-14.677	-13
10	20600		16QAM	-14.157	-13
10	21400	2570	QPSK	-13.787	-13
10			16QAM	-14.123	-13
15	20825	2500	QPSK	-13.667	-13
			16QAM	-15.367	-13
15	21400	2570	QPSK	-17.555	-13
			16QAM	-17.670	-13
20	20850	2500	QPSK	-20.540	-13
			16QAM	-22.556	-13
20	21250	2571	QPSK	-16.017	-13
20	21350		16QAM	-15.855	-13



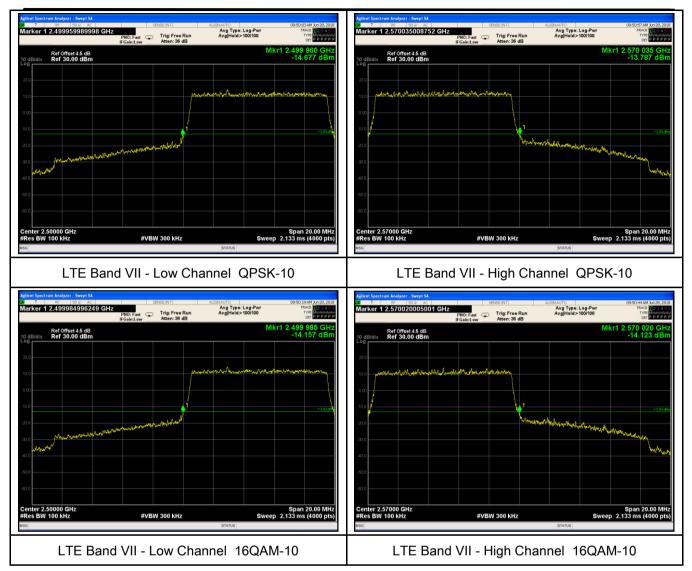
Test Report	18070621-FCC-R5
Page	123 of 136

LTE Band VII (Part 27)



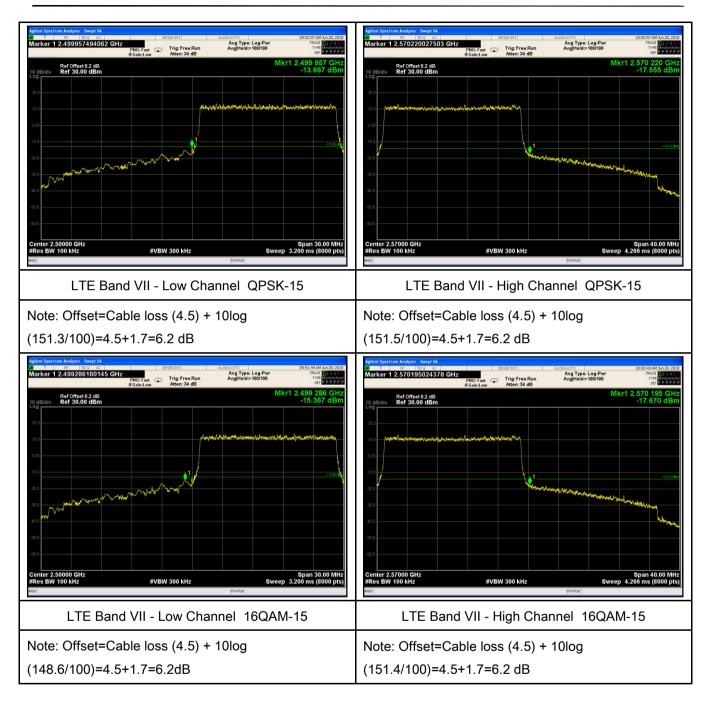


Test Report	18070621-FCC-R5	
Page	124 of 136	



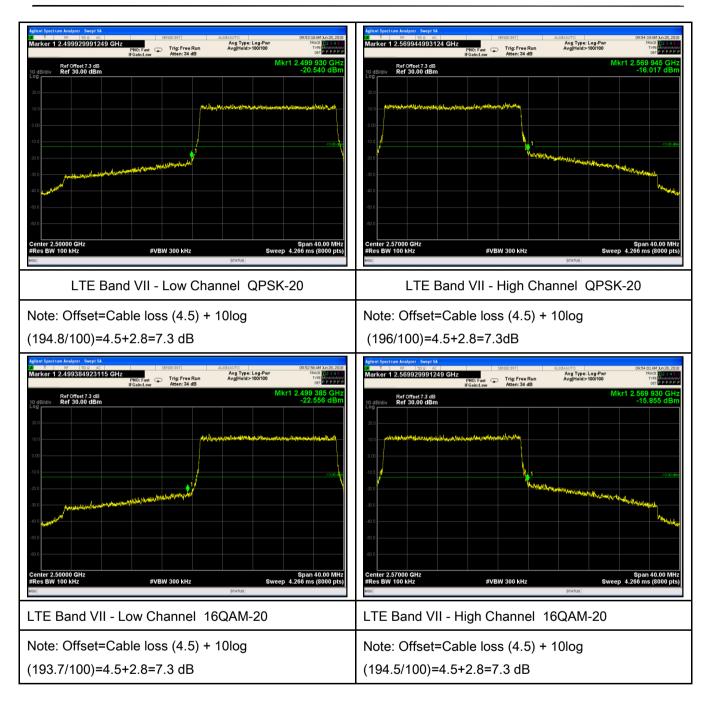


Test Report	18070621-FCC-R5
Page	125 of 136





Test Report	18070621-FCC-R5	
Page	126 of 136	





 Test Report
 18070621-FCC-R5

 Page
 127 of 136

6.9 Frequency Stability

Temperature	24°C
Relative Humidity	57%
Atmospheric Pressure	1023mbar
Test date :	June 27, 2018
Tested By :	Aarron Liang

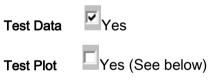
Requirement(s):

Spec	Item	Requirement			Applicable					
	According to §22.3 the Public Mobile S tolerances given in Frequency Toleran Services	Services mus Table belov	at be maintained w	vithin the						
		Frequency	Base,	Mobile ≤ 3	Mobile ≤ 3					
		Range	fixed	watts	watts					
SO 4055		(MHz)	(ppm)	(ppm)	(ppm)					
§2.1055,		25 to 50	20.0	20.0	50.0					
§22.355 & §24.235 a)		to 450	5.0	5.0	50.0	_				
	a)	-	a));	27.5(h);	.235 a)	450 to 512	2.5	5.0	50
§ 27.5(h);						821 to 896	1.5	2.5	2.5	
§ 27.54						928 to 929.	5.0	N/A	N/A	
		929 to 960.	1.5	N/A	N/A					
		2110 to 2220	10.0	N/A	N/A					
	According to §24.235, the frequency stability shall be sufficient to									
		ensure that the fundamental emissions stay within the authorized								
		frequency block.								
		According to §27.54, The frequency stability shall be sufficient to								
		ensure that the fun	damental en	nissions stay withi	n the authorized					
		bands of operation								



Test Report 18070621-FCC-R5 Page 128 of 136

Test setup	Base Station EUT Thermal Chamber
Procedure	A communication link was established between EUT and base station. The frequency error was monitored and measured by base station under variation of ambient temperature and variation of primary supply voltage. Limit: The frequency stability of the transmitter shall be maintained within ±0.00025% (±2.5ppm) of the center frequency.
Remark	Frequency Stability versus Temperature: The Frequency tolerance of the carrier signal shall be maintained within 2.5ppm of the operating frequency over a temperature variation of -10°C to +55°C at normal supply voltage.
Result	Pass Fail



□_{N/A} ▼ N/A



Test Report	18070621-FCC-R5
Page	129 of 136

LTE Band II (Part 24E) result

Middle Channel, f _o = 1880 MHz					
Temperature (°C)	Power Supplied (V _{DC})	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)	
-10		-6	0.0032	2.5	
0		-10	0.0053	2.5	
10	3.85	-9	0.0048	2.5	
20		-11	0.0059	2.5	
30		-14	0.0074	2.5	
40		-9	0.0048	2.5	
50		-10	0.0053	2.5	
55		-10	0.0053	2.5	
25	4.4	-12	0.0064	2.5	
	3.6	-14	0.0074	2.5	

LTE Band IV (Part 27) result

Middle Channel, f₀ = 1732.5 MHz					
Temperature (°C)	Power Supplied (V _{DC})	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)	
-10		-11	0.0063	2.5	
0		-19	0.0110	2.5	
10	3.85	-16	0.0092	2.5	
20		-10	0.0058	2.5	
30		-7	0.0040	2.5	
40		-9	0.0052	2.5	
50		-11	0.0063	2.5	
55		-13	0.0075	2.5	
25	4.4	-15	0.0087	2.5	
	3.6	-17	0.0098	2.5	



Test Report	18070621-FCC-R5
Page	130 of 136

LTE Band V (Part 22H) result

Middle Channel, f₀ = 836.5 MHz					
Temperature (°C)	Power Supplied (V _{DC})	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)	
-10		-11	0.0043	2.5	
0	3.85	-9	0.0036	2.5	
10		-9	0.0036	2.5	
20		-8	0.0032	2.5	
30		-11	0.0043	2.5	
40		-9	0.0036	2.5	
50		-10	0.0039	2.5	
55		-6	0.0024	2.5	
25	4.4	-10	0.0039	2.5	
	3.6	-12	0.0047	2.5	

LTE Band VII (Part 27) result

Middle Channel, f₀ = 2535 MHz					
Temperature (°C)	Power Supplied (V _{DC})	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)	
-10		-11	0.0043	2.5	
0	3.85	-9	0.0036	2.5	
10		-9	0.0036	2.5	
20		-8	0.0032	2.5	
30		-11	0.0043	2.5	
40		-9	0.0036	2.5	
50		-10	0.0039	2.5	
55		-6	0.0024	2.5	
25	4.4	-10	0.0039	2.5	
	3.6	-12	0.0047	2.5	



 Test Report
 18070621-FCC-R5

 Page
 131 of 136

Annex A. TEST INSTRUMENT

Instrument Model		Serial #	Cal Date	Cal Due	In use
RF Conducted Test					
Agilent ESA-E SERIES SPECTRUM ANALYZER	E4407B	MY45108319	09/14/2017	09/13/2018	K
Power Splitter	1#	1#	08/30/2017	08/29/2018	•
Universal Radio Communication Tester	CMU200	121393	09/23/2017	09/22/2018	V
Temperature/Humidity Chamber	UHL-270	001	10/07/2017	10/06/2018	K
DC Power Supply	E3640A	MY40004013	09/15/2017	09/14/2018	•
RF Power Sensor Dare RPR3006C/P/W		AY554013	09/15/2017	09/14/2018	•
Radiated Emissions					
EMI test receiver	ESL6	100262	09/15/2017	09/14/2018	•
OPT 010 AMPLIFIER (0.1-1300MHz)	8447E		08/30/2017	08/29/2018	Κ
Horn Antenna	BBHA9170	3145226D1	09/27/2017	09/26/2018	•
Microwave Preamplifier (1 ~ 26.5GHz)	8449B	3008A02402	03/22/2018	03/21/2019	V
Bilog Antenna (30MHz~6GHz)	JB6	A110712	09/19/2017	09/18/2018	L
Bilog Antenna (30MHz~2GHz)	JB1	A112017	09/19/2017	09/18/2018	K
Double Ridge Horn Antenna (1 ~18GHz)	AH-118	71259	09/22/2017	09/21/2018	K
Double Ridge Horn Antenna (1 ~18GHz)	AH-118	71283	09/22/2017	09/21/2018	K
SYNTHESIZED SIGNAL GENERATOR	8665B	3744A01293	09/15/2017	09/14/2018	V
Power Amplifier	SMC150D	R1553-0313	03/07/2018	03/06/2019	•
Power Amplifier	S61-25	R1553-0516	05/25/2018	05/24/2019	V
Power Amplifier	S41-25D	R1553-0314	05/25/2018	05/24/2019	>



Test Report	18070621-FCC-R5	
Page	132 of 136	

Tunable Notch Filter S	AA4	08/30/2017	08/29/2018	Z	
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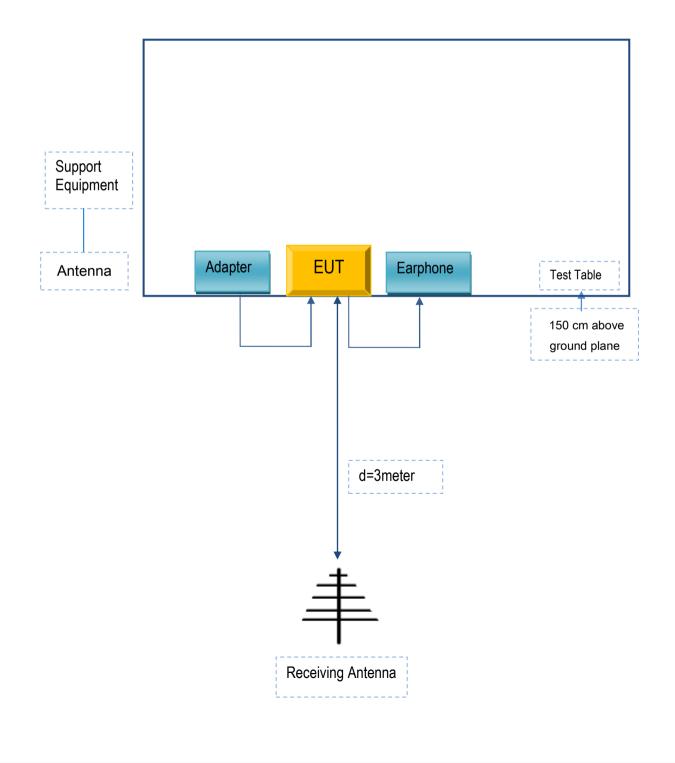
 Test Report
 18070621-FCC-R5

 Page
 133 of 136

Annex B. TEST SETUP AND SUPPORTING EQUIPMENT

Annex B.i. TEST SET UP BLOCK

Block Configuration Diagram for Radiated Emissions





Annex B. ii. SUPPORTING EQUIPMENT DESCRIPTION

The following is a description of supporting equipment and details of cables used with the EUT.

Supporting Equipment:

Manufacturer	Equipment Description	Model	Serial No	
TECNO MOBILE LIMITED Adapter		A8-501000	N/A	
TECNO MOBILE LIMITED Earphone		F4	N/A	

Supporting Cable:

Cable type	Shield Type	Ferrite Core	Length	Serial No
USB Cable	Un-shielding	No	0.8m	N/A



Test Report	18070621-FCC-R5	
Page	135 of 136	

Annex C. EUT OPERATING CONKITIONS

N/A



 Test Report
 18070621-FCC-R5

 Page
 136 of 136

Annex D. User Manual / Block Diagram / Schematics / Partlist/ DECLARATION OF SIMILARITY

Please see the attachment