

FCC

RF Test Report

Product Type : LE910-SV V2
Applicant : Telit Communications S.p.A.
Address : Viale Stazione di Prosecco 5/B, 34010 Sgonico- Trieste- Italy
Trade Name : Telit
Model Number : LE910-SV V2
Test Specification : FCC 47 CFR PART 24E: Oct, 2014
FCC 47 CFR PART 27: Oct. 2014
ANSI/TIA/EIA-603-C
Application Purpose : Original
Receive Date : Jun. 11, 2015
Test Period : Jun. 12 ~ Aug. 03, 2015
Issue Date : Aug. 04, 2015

Issue by

A Test Lab Techno Corp.
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Taiwan Accreditation Foundation accreditation number: 1330

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Revision History

Rev.	Issue Date	Revisions	Revised By
00	Jul. 28, 2015	Initial Issue	
01	Aug. 04, 2015	Revised report information.	Snow Wang

Verification of Compliance

Issued Date: 08/04/2015

Product Type : LE910-SV V2
Applicant : Telit Communications S.p.A.
Address : Viale Stazione di Prosecco 5/B, 34010 Sgonico- Trieste- Italy
Trade Name : Telit
Model Number : LE910-SV V2
EUT Rated Voltage : DC 3.4V / 3.8V / 4.2V
Test Voltage : DC 3.8V
Applicable Standard : FCC 47 CFR PART 24E: Oct, 2014
FCC 47 CFR PART 27: Oct. 2014
ANSI/TIA/EIA-603-C
Test Result : Complied
Application Purpose : Original
Performing Lab. : A Test Lab Techno Corp.

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Taiwan Accreditation Foundation accreditation number: 1330
<http://www.atl-lab.com.tw/e-index.htm>

A Test Lab Techno Corp. tested the above equipment in accordance with the requirements set forth in the above standards. All indications of Pass/Fail in this report are opinions expressed by A Test Lab Techno Corp. based on interpretations and/or observations of test results. Measurement Uncertainties were not taken into account and are published for informational purposes only. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

Approved By : Fly Lu Reviewed By : Eric Ou Yang
(Manager) (Fly Lu) (Testing Engineer) (Eric Ou Yang)

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1 General Information

1.1. EUT Description

Applicant		Telit Communications S.p.A.			
Applicant Address		Viale Stazione di Prosecco 5/B, 34010 Sgonico- Trieste- Italy			
Manufacturer		Telit Communications S.p.A.			
Manufacturer Address		Viale Stazione di Prosecco 5/B, 34010 Sgonico- Trieste- Italy			
Product Type		LE910-SV V2			
Trade Name		Telit			
Model Number		LE910-SV V2			
Mode	LTE	Band	UL Frequency (MHz)	DL Frequency (MHz)	Modulation
		2	1850.7 ~ 1909.3	1930.7 ~ 1989.3	QPSK, 16QAM
		4	1710.7 ~ 1754.3	2110.7 ~ 2154.3	QPSK, 16QAM
		13	777 ~ 787	746 ~ 756	QPSK, 16QAM
Channel Bandwidth		LTE Band 2	1.4M, 3M, 5MHz, 10MHz, 15MHz, 20MHz		
		LTE Band 4	1.4M, 3M, 5MHz, 10MHz, 15MHz, 20MHz		
		LTE Band 13	5MHz, 10MHz		
Antenna Gain		LTE Band 2	2.14 dBi		
		LTE Band 4	2.14 dBi		
		LTE Band 13	2.14 dBi		

Max. Conducted Output	LTE Band 2 (Channel Bandwidth 1.4MHz)	0.216 W
Average Power	LTE Band 2 (Channel Bandwidth 3MHz)	0.217 W
	LTE Band 2 (Channel Bandwidth 5MHz)	0.217 W
	LTE Band 2 (Channel Bandwidth 10MHz)	0.212 W
	LTE Band 2 (Channel Bandwidth 15MHz)	0.217 W
	LTE Band 2 (Channel Bandwidth 20MHz)	0.219 W
	LTE Band 4 (Channel Bandwidth 1.4MHz)	0.211 W
	LTE Band 4 (Channel Bandwidth 3MHz)	0.206 W
	LTE Band 4 (Channel Bandwidth 5MHz)	0.208 W
	LTE Band 4 (Channel Bandwidth 10MHz)	0.207 W
	LTE Band 4 (Channel Bandwidth 15MHz)	0.210 W
	LTE Band 4 (Channel Bandwidth 20MHz)	0.209 W
	LTE Band 13 (Channel Bandwidth 5MHz)	0.201 W
	LTE Band 13 (Channel Bandwidth 10MHz)	0.198 W
	Max. E.R.P. / E.I.R.P.	LTE Band 2 (Channel Bandwidth 1.4MHz)
LTE Band 2 (Channel Bandwidth 3MHz)		0.356 W (E.I.R.P.)
LTE Band 2 (Channel Bandwidth 5MHz)		0.355 W (E.I.R.P.)
LTE Band 2 (Channel Bandwidth 10MHz)		0.348 W (E.I.R.P.)
LTE Band 2 (Channel Bandwidth 15MHz)		0.356 W (E.I.R.P.)
LTE Band 2 (Channel Bandwidth 20MHz)		0.359 W (E.I.R.P.)
LTE Band 4 (Channel Bandwidth 1.4MHz)		0.346 W (E.I.R.P.)
LTE Band 4 (Channel Bandwidth 3MHz)		0.337 W (E.I.R.P.)
LTE Band 4 (Channel Bandwidth 5MHz)		0.340 W (E.I.R.P.)
LTE Band 4 (Channel Bandwidth 10MHz)		0.339 W (E.I.R.P.)
LTE Band 4 (Channel Bandwidth 15MHz)		0.344 W (E.I.R.P.)
LTE Band 4 (Channel Bandwidth 20MHz)		0.342 W (E.I.R.P.)
LTE Band 13 (Channel Bandwidth 5MHz)		0.330 W (E.R.P.)
LTE Band 13 (Channel Bandwidth 10MHz)		0.324 W (E.R.P.)

1.2. Mode of Operation

Three channels had been tested for each channel bandwidth.

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

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

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

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

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

Frequency range investigated for radiated emission: 30MHz to 19000 MHz.

Band	Channel Bandwidth	Test Modes	
LTE Band 2	1.4 MHz	<input checked="" type="checkbox"/> LTE(RB Size 1, RB Offset 0) Link <input type="checkbox"/> LTE(RB Size 1, RB Offset 2) Link <input type="checkbox"/> LTE(RB Size 1, RB Offset 5) Link <input type="checkbox"/> LTE(RB Size 3, RB Offset 0) Link <input type="checkbox"/> LTE(RB Size 3, RB Offset 1) Link <input type="checkbox"/> LTE(RB Size 3, RB Offset 3) Link <input type="checkbox"/> LTE(RB Size 6, RB Offset 0) Link	QPSK
	3 MHz	<input checked="" type="checkbox"/> LTE(RB Size 1, RB Offset 0) Link <input type="checkbox"/> LTE(RB Size 1, RB Offset 8) Link <input type="checkbox"/> LTE(RB Size 1, RB Offset 14) Link <input type="checkbox"/> LTE(RB Size 8, RB Offset 0) Link <input type="checkbox"/> LTE(RB Size 8, RB Offset 4) Link <input type="checkbox"/> LTE(RB Size 8, RB Offset 7) Link <input type="checkbox"/> LTE(RB Size 15, RB Offset 0) Link	QPSK
	5 MHz	<input checked="" type="checkbox"/> LTE(RB Size 1, RB Offset 0) Link <input type="checkbox"/> LTE(RB Size 1, RB Offset 12) Link <input type="checkbox"/> LTE(RB Size 1, RB Offset 24) Link <input type="checkbox"/> LTE(RB Size 12, RB Offset 0) Link <input type="checkbox"/> LTE(RB Size 12, RB Offset 6) Link <input type="checkbox"/> LTE(RB Size 12, RB Offset 13) Link <input type="checkbox"/> LTE(RB Size 25, RB Offset 0) Link	QPSK
	10 MHz	<input checked="" type="checkbox"/> LTE(RB Size 1, RB Offset 0) Link <input type="checkbox"/> LTE(RB Size 1, RB Offset 24) Link <input type="checkbox"/> LTE(RB Size 1, RB Offset 49) Link <input type="checkbox"/> LTE(RB Size 25, RB Offset 0) Link <input type="checkbox"/> LTE(RB Size 25, RB Offset 12) Link <input type="checkbox"/> LTE(RB Size 25, RB Offset 25) Link <input type="checkbox"/> LTE(RB Size 50, RB Offset 0) Link	QPSK
	15 MHz	<input checked="" type="checkbox"/> LTE(RB Size 1, RB Offset 0) Link <input type="checkbox"/> LTE(RB Size 1, RB Offset 38) Link <input type="checkbox"/> LTE(RB Size 1, RB Offset 74) Link <input type="checkbox"/> LTE(RB Size 38, RB Offset 0) Link <input type="checkbox"/> LTE(RB Size 38, RB Offset 18) Link <input type="checkbox"/> LTE(RB Size 38, RB Offset 37) Link <input type="checkbox"/> LTE(RB Size 75, RB Offset 0) Link	QPSK
	20 MHz	<input checked="" type="checkbox"/> LTE(RB Size 1, RB Offset 0) Link <input type="checkbox"/> LTE(RB Size 1, RB Offset 49) Link <input type="checkbox"/> LTE(RB Size 1, RB Offset 99) Link <input type="checkbox"/> LTE(RB Size 50, RB Offset 0) Link <input type="checkbox"/> LTE(RB Size 50, RB Offset 25) Link <input type="checkbox"/> LTE(RB Size 50, RB Offset 50) Link <input type="checkbox"/> LTE(RB Size 100, RB Offset 0) Link	QPSK

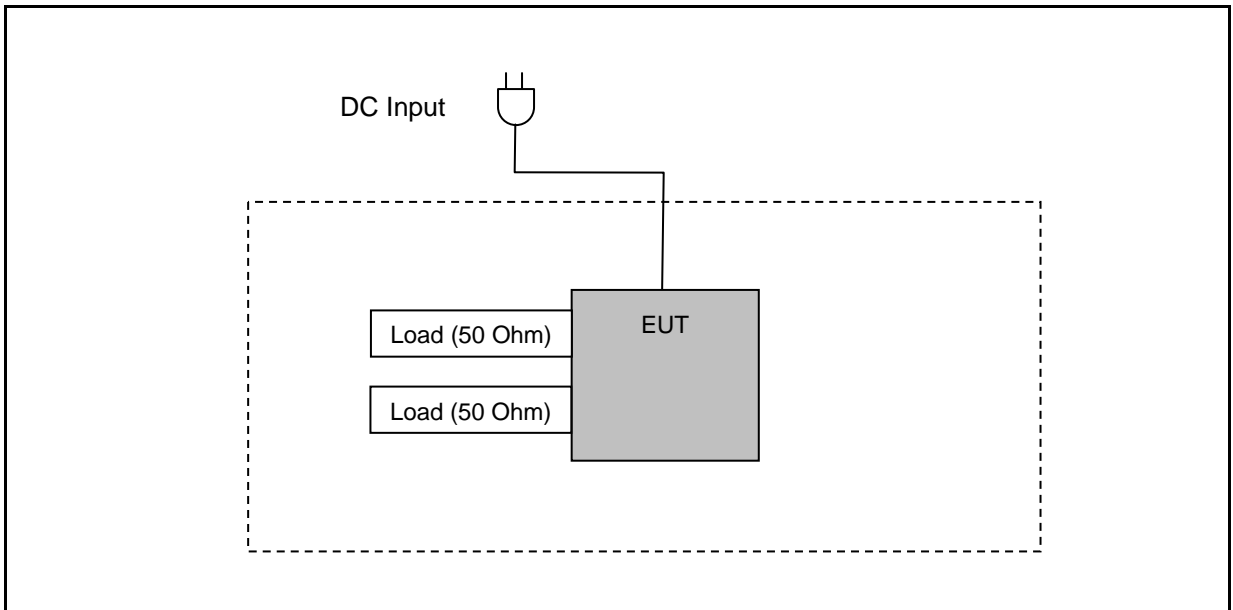
Band	Channel Bandwidth	Test Modes	
LTE Band 4	1.4 MHz	<input checked="" type="checkbox"/> LTE(RB Size 1, RB Offset 0) Link <input type="checkbox"/> LTE(RB Size 1, RB Offset 2) Link <input type="checkbox"/> LTE(RB Size 1, RB Offset 5) Link <input type="checkbox"/> LTE(RB Size 3, RB Offset 0) Link <input type="checkbox"/> LTE(RB Size 3, RB Offset 1) Link <input type="checkbox"/> LTE(RB Size 3, RB Offset 3) Link <input type="checkbox"/> LTE(RB Size 6, RB Offset 0) Link	QPSK
	3 MHz	<input checked="" type="checkbox"/> LTE(RB Size 1, RB Offset 0) Link <input type="checkbox"/> LTE(RB Size 1, RB Offset 8) Link <input type="checkbox"/> LTE(RB Size 1, RB Offset 14) Link <input type="checkbox"/> LTE(RB Size 8, RB Offset 0) Link <input type="checkbox"/> LTE(RB Size 8, RB Offset 4) Link <input type="checkbox"/> LTE(RB Size 8, RB Offset 7) Link <input type="checkbox"/> LTE(RB Size 15, RB Offset 0) Link	QPSK
	5 MHz	<input checked="" type="checkbox"/> LTE(RB Size 1, RB Offset 0) Link <input type="checkbox"/> LTE(RB Size 1, RB Offset 12) Link <input type="checkbox"/> LTE(RB Size 1, RB Offset 24) Link <input type="checkbox"/> LTE(RB Size 12, RB Offset 0) Link <input type="checkbox"/> LTE(RB Size 12, RB Offset 6) Link <input type="checkbox"/> LTE(RB Size 12, RB Offset 13) Link <input type="checkbox"/> LTE(RB Size 25, RB Offset 0) Link	QPSK
	10 MHz	<input checked="" type="checkbox"/> LTE(RB Size 1, RB Offset 0) Link <input type="checkbox"/> LTE(RB Size 1, RB Offset 24) Link <input type="checkbox"/> LTE(RB Size 1, RB Offset 49) Link <input type="checkbox"/> LTE(RB Size 25, RB Offset 0) Link <input type="checkbox"/> LTE(RB Size 25, RB Offset 12) Link <input type="checkbox"/> LTE(RB Size 25, RB Offset 25) Link <input type="checkbox"/> LTE(RB Size 50, RB Offset 0) Link	QPSK
	15 MHz	<input checked="" type="checkbox"/> LTE(RB Size 1, RB Offset 0) Link <input type="checkbox"/> LTE(RB Size 1, RB Offset 38) Link <input type="checkbox"/> LTE(RB Size 1, RB Offset 74) Link <input type="checkbox"/> LTE(RB Size 38, RB Offset 0) Link <input type="checkbox"/> LTE(RB Size 38, RB Offset 18) Link <input type="checkbox"/> LTE(RB Size 38, RB Offset 37) Link <input type="checkbox"/> LTE(RB Size 75, RB Offset 0) Link	QPSK
	20 MHz	<input checked="" type="checkbox"/> LTE(RB Size 1, RB Offset 0) Link <input type="checkbox"/> LTE(RB Size 1, RB Offset 49) Link <input type="checkbox"/> LTE(RB Size 1, RB Offset 99) Link <input type="checkbox"/> LTE(RB Size 50, RB Offset 0) Link <input type="checkbox"/> LTE(RB Size 50, RB Offset 25) Link <input type="checkbox"/> LTE(RB Size 50, RB Offset 50) Link <input type="checkbox"/> LTE(RB Size 100, RB Offset 0) Link	QPSK

Band	Channel Bandwidth	Test Modes	
LTE Band 13	5 MHz	<input checked="" type="checkbox"/> LTE(RB Size 1, RB Offset 0) Link <input type="checkbox"/> LTE(RB Size 1, RB Offset 12) Link <input type="checkbox"/> LTE(RB Size 1, RB Offset 24) Link <input type="checkbox"/> LTE(RB Size 12, RB Offset 0) Link <input type="checkbox"/> LTE(RB Size 12, RB Offset 6) Link <input type="checkbox"/> LTE(RB Size 12, RB Offset 13) Link <input type="checkbox"/> LTE(RB Size 25, RB Offset 0) Link	QPSK
	10 MHz	<input checked="" type="checkbox"/> LTE(RB Size 1, RB Offset 0) Link <input type="checkbox"/> LTE(RB Size 1, RB Offset 24) Link <input type="checkbox"/> LTE(RB Size 1, RB Offset 49) Link <input type="checkbox"/> LTE(RB Size 25, RB Offset 0) Link <input type="checkbox"/> LTE(RB Size 25, RB Offset 12) Link <input type="checkbox"/> LTE(RB Size 25, RB Offset 25) Link <input type="checkbox"/> LTE(RB Size 50, RB Offset 0) Link	QPSK

1.3. EUT Exercise Software

1	Setup the EUT and Base Station (CMW500) as shown on 1.4.
2	Turn on the power of all equipment.
3	EUT run test program test.

1.4. Configuration of Test System Details



1.5. Test Site Environment

Items	Required (IEC 68-1)	Actual
Temperature (°C)	15-35	26
Humidity (%RH)	25-75	60
Barometric pressure (mbar)	860-1060	950

1.6. Summary of Test Result

FCC Rule	Description	Result
§2.1046	Conducted Output Average Power	Pass
§24.232 §27.50	Equivalent Isotropic Radiated Power / Equivalent Radiated Power	Pass
§2.1055 §24.235 §27.54	Frequency Stability	Pass
§2.1049	Emission Bandwidth & Occupied Bandwidth	Pass
§24.232 §27.50	Peak to average ratio	Pass
§24.238 §27.53	Band Edge	Pass
§2.1051 §24.238 §27.53	Conducted Spurious Emissions	Pass
§2.1053 §24.238 §27.53	Radiated Spurious Emissions	Pass

2 Conducted Output Average Power Test

2.1. Limit

N/A

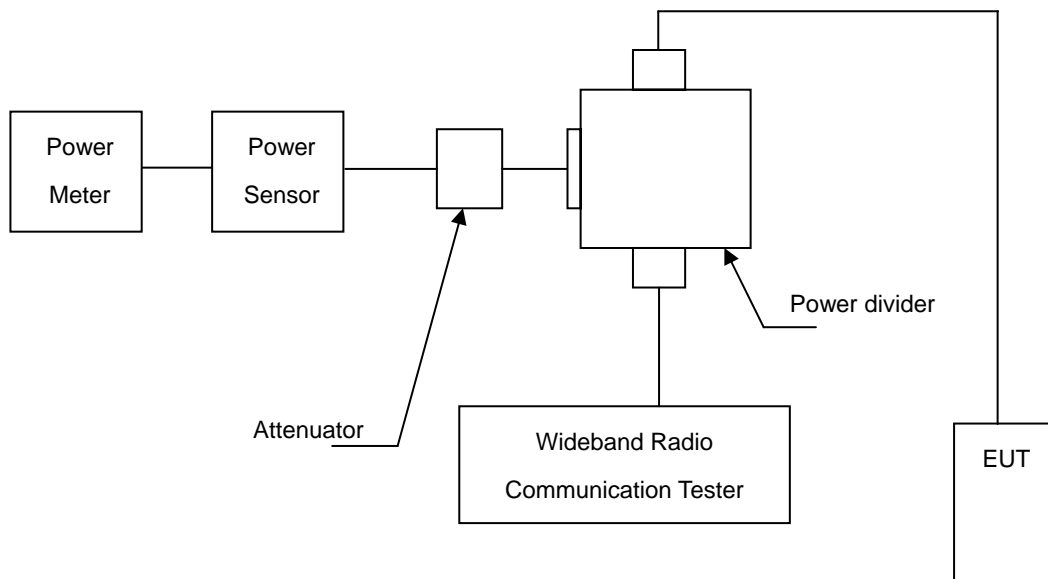
2.2. Test Instruments

Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Remark
Wideband Radio Communication Tester	R & S	CMW500	103168	11/05/2014	(1)
Wideband Power Sensor	Agilent	N1921A	MY45241957	12/15/2014	(1)
Single Channel PK Power Meter	Agilent	N1911A	MY45101619	12/15/2014	(1)
Test Site	ATL	TE05	TE05	N.C.R.	-----

Remark: ⁽¹⁾ Calibration period 1 year. ⁽²⁾ Calibration period 2 years.

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

2.3. Test Setup



2.4. Test Procedure

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

2.5. Uncertainty

The measurement uncertainty is defined as for Conducted Power measurement is 1.2 dB.

2.6. Test Result

Model Number	LE910-SV V2		
Test Item	Conducted Output Average Power		
Date of Test	06/15/2015	Test Site	TE05

Band	Channel Bandwidth	Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power	
					Size	Offset	(dBm)	(W)
LTE Band 2	1.4 MHz	QPSK	18607	1850.7	1	0	23.21	0.209
					1	2	23.18	0.208
					1	5	23.12	0.205
					3	0	23.10	0.204
					3	1	23.09	0.204
					3	3	23.04	0.201
			6	0	22.38	0.173		
			1	0	23.35	0.216		
			1	2	23.34	0.216		
			1	5	23.32	0.215		
			3	0	23.24	0.211		
			3	1	23.22	0.210		
			3	3	23.20	0.209		
			6	0	22.38	0.173		
			1	0	23.07	0.203		
			1	2	23.02	0.200		
			1	5	23.01	0.200		
			3	0	22.98	0.199		
		3	1	22.96	0.198			
		3	3	22.94	0.197			
		6	0	22.16	0.164			
		1	0	22.60	0.182			
		1	2	22.33	0.171			
		1	5	22.25	0.168			
		3	0	22.15	0.164			
		3	1	22.13	0.163			
		3	3	22.11	0.163			
		6	0	21.40	0.138			
		1	0	22.63	0.183			
		1	2	22.61	0.182			
		1	5	22.44	0.175			
		3	0	22.42	0.175			
		3	1	22.41	0.174			
		3	3	22.08	0.161			
		6	0	21.45	0.140			
		1	0	22.24	0.167			
1	2	22.11	0.163					
1	5	22.05	0.160					
3	0	22.04	0.160					
3	1	22.01	0.159					
3	3	22.00	0.158					
6	0	21.40	0.138					

Band	Channel Bandwidth	Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power	
					Size	Offset	(dBm)	(W)
LTE Band 2	3 MHz	QPSK	18615	1851.5	1	0	23.16	0.207
					1	8	23.14	0.206
					1	14	23.13	0.206
					8	0	22.33	0.171
					8	4	22.32	0.171
					8	7	22.20	0.166
			15	0	22.17	0.165		
			1	0	23.37	0.217		
			1	8	23.25	0.211		
			1	14	23.22	0.210		
			8	0	22.37	0.173		
			8	4	22.35	0.172		
			8	7	22.34	0.171		
			15	0	22.32	0.171		
			1	0	23.14	0.206		
			1	8	23.05	0.202		
			1	14	22.94	0.197		
			8	0	22.30	0.170		
		8	4	22.28	0.169			
		8	7	22.26	0.168			
		15	0	22.17	0.165			
		1	0	22.39	0.173			
		1	8	22.21	0.166			
		1	14	22.08	0.161			
		8	0	21.39	0.138			
		8	4	21.35	0.136			
		8	7	21.28	0.134			
		15	0	21.21	0.132			
		1	0	22.49	0.177			
		1	8	22.18	0.165			
		1	14	22.11	0.163			
		8	0	21.42	0.139			
		8	4	21.39	0.138			
		8	7	21.37	0.137			
		15	0	21.37	0.137			
		1	0	22.32	0.171			
		1	8	22.30	0.170			
		1	14	21.78	0.151			
		8	0	21.36	0.137			
		8	4	21.25	0.133			
		8	7	21.24	0.133			
		15	0	21.23	0.133			

Band	Channel Bandwidth	Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power			
					Size	Offset	(dBm)	(W)		
LTE Band 2	5 MHz	QPSK	18625	1852.5	1	0	23.20	0.209		
					1	12	23.10	0.204		
					1	24	22.94	0.197		
					12	0	22.27	0.169		
					12	6	22.22	0.167		
					12	13	22.19	0.166		
					25	0	22.13	0.163		
					1	0	23.36	0.217		
			18900	1880.0	1	12	23.35	0.216		
					1	24	23.20	0.209		
					12	0	22.40	0.174		
					12	6	22.39	0.173		
					12	13	22.37	0.173		
					25	0	22.24	0.167		
					19175	1907.5	1	0	23.16	0.207
							1	12	23.08	0.203
			1	24			22.94	0.197		
			12	0			22.31	0.170		
			12	6			22.27	0.169		
			12	13			22.23	0.167		
			25	0			22.22	0.167		
			16QAM	18625			1852.5	1	0	22.46
					1	12		22.16	0.164	
					1	24		21.99	0.158	
		12			0	21.38		0.137		
		12			6	21.34		0.136		
		12			13	21.28		0.134		
		25			0	21.15		0.130		
		18900			1880.0	1		0	22.65	0.184
				1		12	22.19	0.166		
				1		24	22.06	0.161		
				12		0	21.41	0.138		
				12		6	21.35	0.136		
				12		13	21.34	0.136		
				25		0	21.31	0.135		
				19175		1907.5	1	0	22.46	0.176
		1			12		22.17	0.165		
		1			24		21.72	0.149		
		12			0		21.46	0.140		
		12			6		21.43	0.139		
		12			11		21.41	0.138		
		25			0		21.25	0.133		

Band	Channel Bandwidth	Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power	
					Size	Offset	(dBm)	(W)
LTE Band 2	10 MHz	QPSK	18650	1855.0	1	0	23.27	0.212
					1	24	23.13	0.206
					1	49	22.94	0.197
					25	0	22.32	0.171
					25	12	22.27	0.169
					25	25	22.19	0.166
			50	0	22.16	0.164		
			1	0	23.25	0.211		
			1	24	23.24	0.211		
			1	49	23.16	0.207		
			25	0	22.37	0.173		
			25	12	22.32	0.171		
			25	25	22.31	0.170		
			50	0	22.29	0.169		
			1	0	23.16	0.207		
			1	24	23.14	0.206		
			1	49	22.87	0.194		
			25	0	22.40	0.174		
		25	12	22.27	0.169			
		25	25	22.25	0.168			
		50	0	22.20	0.166			
		1	0	22.32	0.171			
		1	24	22.18	0.165			
		1	49	22.07	0.161			
		25	0	21.47	0.140			
		25	12	21.41	0.138			
		25	25	21.25	0.133			
		50	0	21.20	0.132			
		1	0	22.49	0.177			
		1	24	22.45	0.176			
		1	49	22.14	0.164			
		25	0	21.50	0.141			
		25	12	21.39	0.138			
		25	25	21.36	0.137			
		50	0	21.36	0.137			
		1	0	22.37	0.173			
		1	24	22.19	0.166			
		1	49	21.79	0.151			
		25	0	21.40	0.138			
		25	12	21.37	0.137			
		25	25	21.35	0.136			
		50	0	21.31	0.135			

Band	Channel Bandwidth	Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power	
					Size	Offset	(dBm)	(W)
LTE Band 2	15 MHz	QPSK	18675	1857.5	1	0	23.28	0.213
					1	38	23.24	0.211
					1	74	23.19	0.208
					38	0	22.27	0.169
					38	18	22.26	0.168
					38	37	22.24	0.167
					75	0	22.23	0.167
					1	0	23.34	0.216
			18900	1880.0	1	38	23.28	0.213
					1	74	23.19	0.208
					38	0	22.38	0.173
					38	18	22.38	0.173
					38	37	22.36	0.172
					75	0	22.29	0.169
					1	0	23.37	0.217
					1	38	23.09	0.204
			19125	1902.5	1	74	22.98	0.199
					38	0	22.28	0.169
					38	18	22.27	0.169
					38	37	22.23	0.167
					75	0	22.23	0.167
					1	0	22.22	0.167
					1	38	22.14	0.164
					1	74	21.92	0.156
		16QAM	18675	1857.5	38	0	21.51	0.142
					38	18	21.45	0.140
					38	37	21.32	0.136
					75	0	21.28	0.134
					1	0	22.54	0.179
					1	38	22.43	0.175
					1	74	22.27	0.169
					38	0	21.53	0.142
			18900	1880.0	38	18	21.43	0.139
					38	37	21.42	0.139
					75	0	21.41	0.138
					1	0	22.19	0.166
					1	38	22.09	0.162
					1	74	22.07	0.161
					38	0	21.50	0.141
					38	18	21.45	0.140
			19125	1902.5	38	37	21.43	0.139
					75	0	21.36	0.137

Band	Channel Bandwidth	Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power	
					Size	Offset	(dBm)	(W)
LTE Band 2	20 MHz	QPSK	18700	1860.0	1	0	23.23	0.210
					1	49	23.18	0.208
					1	99	23.15	0.207
					50	0	22.26	0.168
					50	25	22.13	0.163
					50	50	22.10	0.162
			100	0	22.09	0.162		
			1	0	23.41	0.219		
			1	49	23.30	0.214		
			1	99	23.18	0.208		
			50	0	22.42	0.175		
			50	25	22.38	0.173		
			50	50	22.31	0.170		
			100	0	22.25	0.168		
			1	0	23.19	0.208		
			1	49	23.13	0.206		
			1	99	22.97	0.198		
			50	0	22.25	0.168		
		50	25	22.25	0.168			
		50	50	22.22	0.167			
		100	0	22.19	0.166			
		50	0	22.37	0.173			
		1	49	22.16	0.164			
		1	99	22.14	0.164			
		50	0	21.34	0.136			
		50	25	21.31	0.135			
		50	50	21.29	0.135			
		100	0	21.29	0.135			
		1	0	22.36	0.172			
		1	49	22.30	0.170			
		1	99	22.22	0.167			
		50	0	21.48	0.141			
		50	25	21.40	0.138			
		50	50	21.40	0.138			
		100	0	21.29	0.135			
		1	0	22.73	0.187			
1	49	22.17	0.165					
1	99	22.03	0.160					
50	0	21.44	0.139					
50	25	21.40	0.138					
50	50	21.29	0.135					
100	0	21.25	0.133					

Band	Channel Bandwidth	Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power	
					Size	Offset	(dBm)	(W)
LTE Band 4	1.4 MHz	QPSK	19957	1710.7	1	0	23.25	0.211
					1	2	23.22	0.210
					1	5	23.19	0.208
					3	0	23.17	0.207
					3	1	23.14	0.206
					3	3	23.13	0.206
			6	0	22.22	0.167		
			1	0	23.09	0.204		
			1	2	23.03	0.201		
			1	5	23.02	0.200		
			3	0	22.99	0.199		
			3	1	22.99	0.199		
			3	3	22.92	0.196		
			6	0	22.10	0.162		
			1	0	23.08	0.203		
			1	2	23.04	0.201		
			1	5	23.03	0.201		
			3	0	23.02	0.200		
		3	1	23.01	0.200			
		3	3	22.97	0.198			
		6	0	22.04	0.160			
		1	0	22.56	0.180			
		1	2	22.29	0.169			
		1	5	22.24	0.167			
		3	0	22.17	0.165			
		3	1	22.15	0.164			
		3	3	22.03	0.160			
		6	0	21.16	0.131			
		1	0	22.40	0.174			
		1	2	22.28	0.169			
		1	5	22.25	0.168			
		3	0	22.18	0.165			
		3	1	22.12	0.163			
		3	3	21.85	0.153			
		6	0	21.19	0.132			
		1	0	22.06	0.161			
1	2	22.06	0.161					
1	5	22.03	0.160					
3	0	21.91	0.155					
3	1	21.88	0.154					
3	3	21.85	0.153					
6	0	21.13	0.130					

Band	Channel Bandwidth	Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power		
					Size	Offset	(dBm)	(W)	
LTE Band 4	3 MHz	QPSK	19965	1711.5	1	0	23.14	0.206	
					1	8	23.07	0.203	
					1	14	23.06	0.202	
					8	0	22.30	0.170	
					8	4	22.28	0.169	
					8	7	22.25	0.168	
			15	0	22.11	0.163			
			1	0	23.05	0.202			
			1	8	22.98	0.199			
			1	14	22.96	0.198			
			8	0	22.18	0.165			
			8	4	22.08	0.161			
			8	7	22.08	0.161			
			15	0	22.04	0.160			
			1	0	22.98	0.199			
			1	8	22.98	0.199			
			1	14	22.95	0.197			
			8	0	22.09	0.162			
		8	4	22.04	0.160				
		8	7	22.00	0.158				
		15	0	21.98	0.158				
		1	0	22.52	0.179				
		1	8	22.05	0.160				
		1	14	21.82	0.152				
		8	0	21.26	0.134				
		8	4	21.19	0.132				
		8	7	21.15	0.130				
		15	0	21.02	0.126				
		1	0	22.31	0.170				
		1	8	22.17	0.165				
		1	14	21.90	0.155				
		8	0	21.08	0.128				
		8	4	21.03	0.127				
		8	7	20.99	0.126				
		15	0	20.97	0.125				
		1	0	22.12	0.163				
		1	8	21.99	0.158				
		1	14	21.75	0.150				
		8	0	21.08	0.128				
		8	4	21.02	0.126				
		8	7	20.97	0.125				
		15	0	20.92	0.124				
		16QAM	19965	1711.5	1711.5	1	0	22.52	0.179
						1	8	22.05	0.160
						1	14	21.82	0.152
						8	0	21.26	0.134
						8	4	21.19	0.132
						8	7	21.15	0.130
15	0		21.02	0.126					
1	0		22.31	0.170					
1	8		22.17	0.165					
1	14		21.90	0.155					
8	0		21.08	0.128					
8	4		21.03	0.127					
8	7		20.99	0.126					
15	0		20.97	0.125					
1	0		22.12	0.163					
1	8		21.99	0.158					
1	14		21.75	0.150					
8	0		21.08	0.128					
8	4	21.02	0.126						
8	7	20.97	0.125						
15	0	20.92	0.124						

Band	Channel Bandwidth	Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power	
					Size	Offset	(dBm)	(W)
LTE Band 4	5 MHz	QPSK	19975	1712.5	1	0	23.18	0.208
					1	12	23.08	0.203
					1	24	23.08	0.203
					12	0	22.26	0.168
					12	6	22.19	0.166
					12	13	22.12	0.163
					25	0	22.08	0.161
					1	0	23.05	0.202
			20175	1732.5	1	12	22.95	0.197
					1	24	22.88	0.194
					12	0	22.17	0.165
					12	6	22.15	0.164
					12	13	22.14	0.164
					25	0	22.05	0.160
					1	0	23.01	0.200
					1	12	22.99	0.199
			20375	1752.5	1	24	22.96	0.198
					12	0	22.12	0.163
					12	6	22.10	0.162
					12	13	22.07	0.161
					25	0	22.03	0.160
					1	0	22.46	0.176
					1	12	22.20	0.166
					1	24	22.02	0.159
		16QAM	19975	1712.5	12	0	21.26	0.134
					12	6	21.20	0.132
					12	13	21.18	0.131
					25	0	21.14	0.130
					1	0	22.32	0.171
					1	12	22.23	0.167
					1	24	21.84	0.153
					12	0	21.15	0.130
			20175	1732.5	12	6	21.11	0.129
					12	13	21.08	0.128
					25	0	21.07	0.128
					1	0	22.03	0.160
					1	12	22.00	0.158
					1	24	21.68	0.147
					12	0	21.06	0.128
					12	6	21.04	0.127
			20375	1752.5	12	11	20.99	0.126
					25	0	20.94	0.124

Band	Channel Bandwidth	Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power	
					Size	Offset	(dBm)	(W)
LTE Band 4	10 MHz	QPSK	2000	1715.0	1	0	23.16	0.207
					1	24	23.07	0.203
					1	49	23.04	0.201
					25	0	22.28	0.169
					25	12	22.23	0.167
					25	25	22.15	0.164
					50	0	22.12	0.163
					1	0	23.03	0.201
			20175	1732.5	1	24	22.96	0.198
					1	49	22.94	0.197
					25	0	22.12	0.163
					25	12	22.06	0.161
					25	25	22.05	0.160
					50	0	22.04	0.160
					1	0	23.09	0.204
					1	24	23.01	0.200
			20350	1750.0	1	49	22.99	0.199
					25	0	22.10	0.162
					25	12	22.00	0.158
					25	25	22.00	0.158
					50	0	21.99	0.158
					1	0	22.11	0.163
					1	24	21.97	0.157
					1	49	21.81	0.152
		16QAM	2000	1715.0	25	0	21.22	0.132
					25	12	21.20	0.132
					25	25	21.19	0.132
					50	0	21.16	0.131
					1	0	22.39	0.173
					1	24	22.23	0.167
					1	49	21.95	0.157
					25	0	21.14	0.130
			20175	1732.5	25	12	21.12	0.129
					25	25	21.07	0.128
					50	0	21.03	0.127
					1	0	22.43	0.175
					1	24	22.31	0.170
					1	49	21.96	0.157
					25	0	21.07	0.128
					25	12	20.97	0.125
			20350	1750.0	25	25	20.96	0.125
					50	0	20.87	0.122

Band	Channel Bandwidth	Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power	
					Size	Offset	(dBm)	(W)
LTE Band 4	15 MHz	QPSK	20025	1717.5	1	0	23.19	0.208
					1	38	23.15	0.207
					1	74	23.04	0.201
					38	0	22.21	0.166
					38	18	22.17	0.165
					38	37	22.11	0.163
					75	0	22.09	0.162
					1	0	23.16	0.207
			20175	1732.5	1	38	23.13	0.206
					1	74	23.04	0.201
					38	0	22.18	0.165
					38	18	22.17	0.165
					38	37	22.15	0.164
					75	0	22.10	0.162
					1	0	23.22	0.210
					1	38	23.12	0.205
			20325	1747.5	1	74	23.09	0.204
					38	0	22.16	0.164
					38	18	22.13	0.163
					38	37	22.11	0.163
					75	0	21.93	0.156
					1	0	22.54	0.179
					1	38	22.42	0.175
					1	74	22.07	0.161
		16QAM	20025	1717.5	38	0	21.25	0.133
					38	18	21.15	0.130
					38	37	21.12	0.129
					75	0	21.07	0.128
					1	0	22.01	0.159
					1	38	21.85	0.153
					1	74	21.83	0.152
					38	0	21.24	0.133
			20175	1732.5	38	18	21.16	0.131
					38	37	21.12	0.129
					75	0	21.06	0.128
					1	0	22.45	0.176
					1	38	22.32	0.171
					1	74	22.29	0.169
					38	0	21.18	0.131
					38	18	21.01	0.126
			20325	1747.5	38	37	21.01	0.126
					75	0	20.87	0.122

Band	Channel Bandwidth	Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power	
					Size	Offset	(dBm)	(W)
LTE Band 4	20 MHz	QPSK	20050	1720.0	1	0	23.20	0.209
					1	49	23.11	0.205
					1	99	22.99	0.199
					50	0	22.25	0.168
					50	25	22.21	0.166
					50	50	22.19	0.166
			100	0	22.11	0.163		
			20175	1732.5	1	0	23.18	0.208
					1	49	23.03	0.201
					1	99	22.81	0.191
					50	0	22.17	0.165
					50	25	22.09	0.162
					50	50	22.06	0.161
			100	0	22.02	0.159		
			20300	1745.0	1	0	23.10	0.204
					1	49	23.06	0.202
					1	99	22.99	0.199
					50	0	22.11	0.163
		50			25	21.94	0.156	
		50			50	21.92	0.156	
		100	0	21.90	0.155			
		16QAM	20050	1720.0	1	0	22.52	0.179
					1	49	22.46	0.176
					1	99	21.70	0.148
					50	0	21.12	0.129
					50	25	21.10	0.129
					50	50	21.10	0.129
			100	0	21.03	0.127		
			20175	1732.5	1	0	22.42	0.175
					1	49	22.13	0.163
					1	99	21.79	0.151
					50	0	21.13	0.130
					50	25	21.12	0.129
					50	50	21.03	0.127
			100	0	20.97	0.125		
			20300	1745.0	1	0	22.44	0.175
					1	49	22.39	0.173
					1	99	21.94	0.156
					50	0	21.02	0.126
		50			25	20.99	0.126	
		50			50	20.96	0.125	
		100	0	20.89	0.123			

Band	Channel Bandwidth	Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power	
					Size	Offset	(dBm)	(W)
LTE Band 13	5 MHz	QPSK	23205	779.5	1	0	22.98	0.199
					1	12	22.59	0.182
					1	24	22.48	0.177
					12	0	22.09	0.162
					12	6	22.08	0.161
					12	13	21.75	0.150
			23230	782.0	25	0	21.37	0.137
					1	0	23.02	0.200
					1	12	23.00	0.200
					1	24	22.51	0.178
					12	0	22.22	0.167
					12	6	22.06	0.161
			23255	784.5	12	13	21.63	0.146
					25	0	21.61	0.145
					1	0	23.04	0.201
					1	12	22.94	0.197
					1	24	22.91	0.195
					12	0	22.22	0.167
		16QAM	23205	779.5	12	6	21.92	0.156
					12	13	21.64	0.146
					25	0	21.60	0.145
					1	0	22.12	0.163
					1	12	22.04	0.160
					1	24	21.32	0.136
			23230	782.0	12	0	21.22	0.132
					12	6	21.03	0.127
					12	13	20.97	0.125
					25	0	20.77	0.119
					1	0	22.10	0.162
					1	12	21.96	0.157
			23255	784.5	1	24	21.82	0.152
					12	0	21.29	0.135
					12	6	21.11	0.129
					12	13	20.72	0.118
					25	0	20.49	0.112
					1	0	22.18	0.165
23205	779.5	1	12	21.88	0.154			
		1	24	21.80	0.151			
		12	0	21.21	0.132			
		12	6	21.17	0.131			
		12	11	21.02	0.126			
		25	0	20.65	0.116			

Band	Channel Bandwidth	Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power	
					Size	Offset	(dBm)	(W)
LTE Band 13	10 MHz	QPSK	23230	782.0	1	0	22.96	0.198
					1	24	22.81	0.191
					1	49	22.75	0.188
					25	0	22.37	0.173
					25	12	22.33	0.171
					25	25	22.28	0.169
					50	0	21.88	0.154
		16QAM	23230	782.0	1	0	22.07	0.161
					1	24	21.91	0.155
					1	49	21.71	0.148
					25	0	21.62	0.145
					25	12	21.51	0.142
					25	25	21.17	0.131
					50	0	20.74	0.119

3 Effective Radiated Power / Equivalent Isotropic Radiated Power Test

3.1. Limit

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

For FCC Part 27.50(b)(9): Control stations and mobile stations transmitting in the 746-757 MHz, and 776-788 MHz bands are limited to 30 watts ERP.

For FCC Part 24.232(b): The EIRP of mobile transmitters and auxiliary test transmitters must not exceed 2 Watts.

3.2. Test Instruments

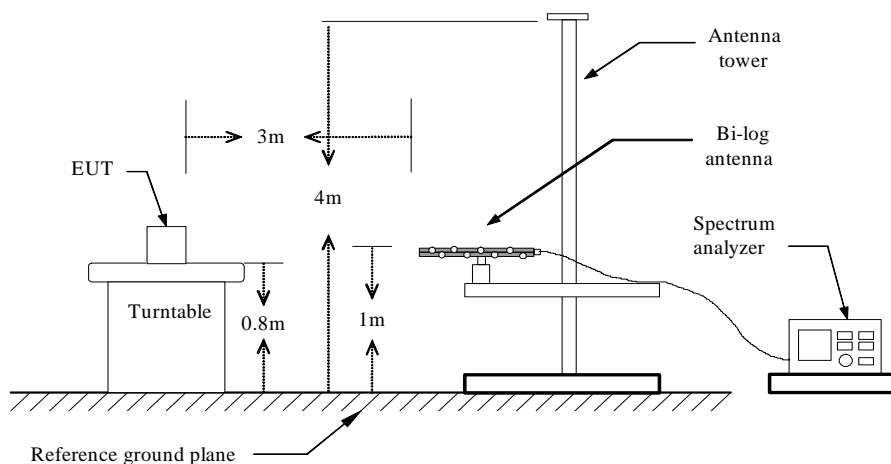
3 Meter Chamber					
Equipment	Manufacturer	Model Number	Serial Number	Cal. Date	Remark
RF Pre-selector	Agilent	N9039A	MY46520256	01/06/2015	(1)
Spectrum Analyzer	Agilent	E4446A	MY46180578	01/06/2015	(1)
Pre Amplifier	Agilent	8449B	3008A02237	02/24/2015	(1)
Pre Amplifier	Agilent	8447D	2944A10961	02/24/2015	(1)
Broadband Antenna (30MHz~1GHz)	SCHWARZBECK MESS-ELEKTRONIK	VULB9163	9163-270	07/22/2014	(1)
Horn Antenna (1~18GHz)	SCHWARZBECK MESS-ELEKTRONIK	BBHA9120D	9120D-550	06/12/2015	(1)
Horn Antenna (18~40GHz)	SCHWARZBECK MESS-ELEKTRONIK	BBHA9170	9170-320	07/02/2014	(1)
Test Site	ATL	TE01	888001	08/28/2014	(1)

Remark: ⁽¹⁾ Calibration period 1 year. ⁽²⁾ Calibration period 2 years.

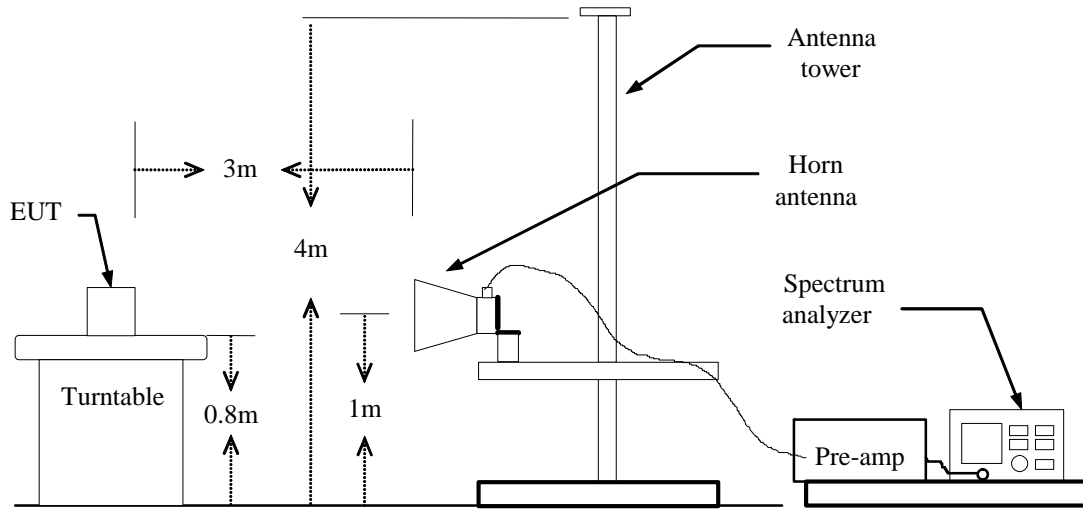
Note: N.C.R. = No Calibration Request.

3.3. Test Setup

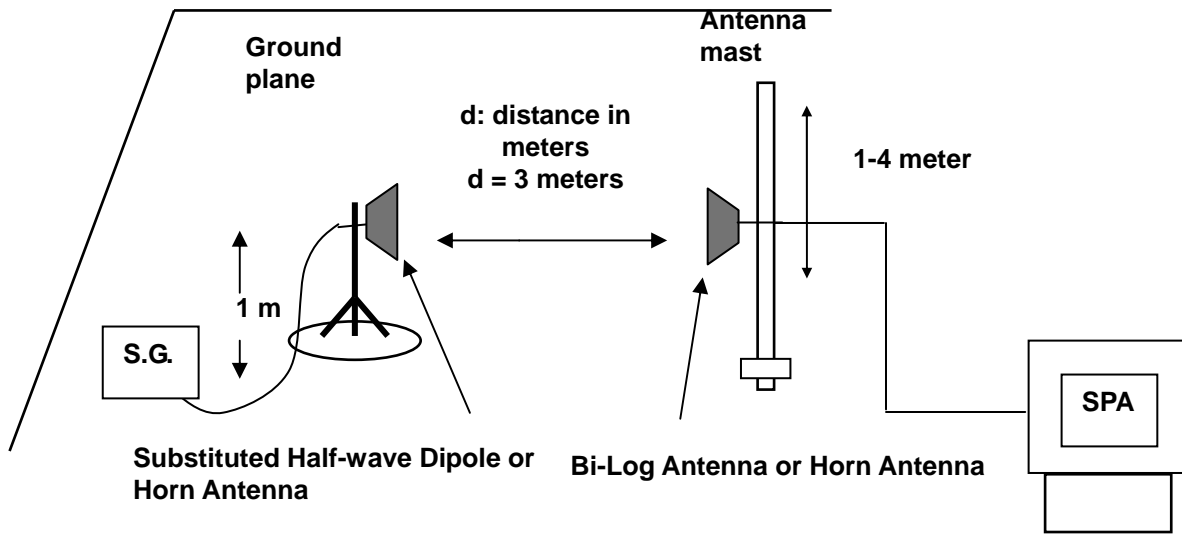
Below 1 GHz



Above 1 GHz



For Substituted Method Test Set-UP



3.4. Test Procedure

- a. The EUT was set up for the maximum power with LTE link data modulation. The power was measured with Spectrum Analyzer. All measurements were done at 3 channels (low, middle and high operational frequency range). RWB and VBW is 5MHz for LTE and WCDMA mode.
- b. E.I.R.P power measurement. In the semi-anechoic chamber, EUT placed on the 0.8m height of Turn Table, rotated the table around 360 degrees to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1m to 4m to find the maximum polar radiated power. The "Read Value" is the spectrum reading the maximum power value.
- c. The substitution horn antenna is substituted for EUT at the same position and signals generator export the CW signal to the substitution antenna via a TX cable. Rotated the Turn Table and moved receiving antenna to find the maximum radiation power. Adjust output power level of S.G to get a Value of spectrum reading equal to "Read Value" of step a. Record the power level of S.G.
- d. $E.I.R.P. = \text{Output power level of S.G} - \text{TX cable loss} + \text{Antenna gain of substitution horn}$
- e. $E.R.P. = E.I.R.P. - 2.15 \text{ dB}$

3.5. Uncertainty

The measurement uncertainty is defined as for Field Strength of Spurious Radiation measurement is $\pm 3.072 \text{ dB}$.

3.6. Test Result

Model Number	LE910-SV V2		
Test Item	E.I.R.P. / E.R.P.		
Date of Test	08/03/2015	Test Site	TC03

LTE Band 2										
Channel Bandwidth	Modulation	CH	Frequency (MHz)	RB Configuration		Average Power (dBm)	Antenna Gain (dBi)	E.I.R.P.		Limit (W)
				Size	Offset			(dBm)	(W)	
1.4 M	QPSK	18900	1880.0	1	0	23.35	2.14	25.49	0.354	< 2
3 MHz	QPSK	18900	1880.0	1	0	23.37	2.14	25.51	0.356	< 2
5 MHz	QPSK	18900	1880.0	1	0	23.36	2.14	25.50	0.355	< 2
10 MHz	QPSK	18650	1855.0	1	0	23.27	2.14	25.41	0.348	< 2
15 MHz	QPSK	19125	1902.5	1	0	23.37	2.14	25.51	0.356	< 2
20 MHz	QPSK	18900	1880.0	1	0	23.41	2.14	25.55	0.359	< 2

LTE Band 4										
Channel Bandwidth	Modulation	CH	Frequency (MHz)	RB Configuration		Average Power (dBm)	Antenna Gain (dBi)	E.I.R.P.		Limit (W)
				Size	Offset			(dBm)	(W)	
1.4 M	QPSK	19957	1710.7	1	0	23.25	2.14	25.39	0.346	< 1
3 MHz	QPSK	19965	1711.5	1	0	23.14	2.14	25.28	0.337	< 1
5 MHz	QPSK	19975	1712.5	1	0	23.18	2.14	25.32	0.340	< 1
10 MHz	QPSK	20000	1715.0	1	0	23.16	2.14	25.30	0.339	< 1
15 MHz	QPSK	20325	1747.5	1	0	23.22	2.14	25.36	0.344	< 1
20 MHz	QPSK	20050	1720.0	1	0	23.20	2.14	25.34	0.342	< 1

LTE Band 13										
Channel Bandwidth	Modulation	CH	Frequency (MHz)	RB Configuration		Average Power (dBm)	Antenna Gain (dBi)	E.R.P.		Limit (W)
				Size	Offset			(dBm)	(W)	
5 MHz	QPSK	23255	784.5	1	0	23.04	2.14	25.18	0.330	< 30
10 MHz	QPSK	23230	782.0	1	0	22.96	2.14	25.10	0.324	< 30

4 Frequency Stability Test

4.1. Limit

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

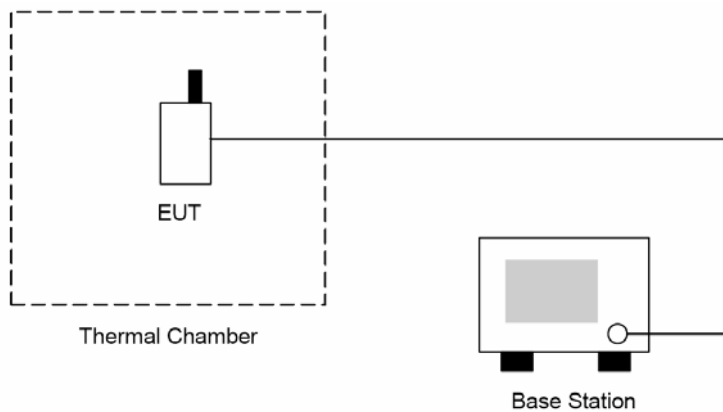
4.2. Test Instruments

Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Remark
Wideband Radio Communication Test	R & S	CMW500	103168	11/05/2014	(1)
Temperature & Humidity Chamber	TAICHY	MHU-225LA	980729	04/27/2015	(1)
Test Site	ATL	TE05	TE05	N.C.R.	-----

Remark: ⁽¹⁾ Calibration period 1 year. ⁽²⁾ Calibration period 2 years.

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

4.3. Setup



4.4. Test Procedure

The measurement is made according to FCC rules:

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

4.5. Uncertainty

The measurement uncertainty is defined as for Frequency Stability measurement is $\pm 10\text{Hz}$.

4.6. Test Result

Model Number	LE910-SV V2		
Test Item	Frequency Stability		
Date of Test	06/17/2015	Test Site	TE05

LTE Band 2 _ QPSK						
Voltage						
Channel Bandwidth	Frequency (MHz)	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)
20 MHz	1880.0	4.20	20	-5.50	-0.003	± 2.5
		3.80	20	1.14	0.001	± 2.5
		3.40	20	-0.97	-0.001	± 2.5
Temperature						
Channel Bandwidth	Frequency (MHz)	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)
20 MHz	1880.0	3.80	-10	9.48	0.005	± 2.5
		3.80	0	11.22	0.006	± 2.5
		3.80	10	-11.94	-0.006	± 2.5
		3.80	20	1.36	0.001	± 2.5
		3.80	30	-12.96	-0.007	± 2.5
		3.80	40	-6.00	-0.003	± 2.5
		3.80	50	11.34	0.006	± 2.5
		3.80	55	-22.65	-0.012	± 2.5

LTE Band 4 _ QPSK						
Voltage						
Channel Bandwidth	Frequency (MHz)	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)
20 MHz	1732.5	4.20	20	-3.89	-0.002	± 2.5
		3.80	20	5.46	0.003	± 2.5
		3.40	20	1.57	0.001	± 2.5
Temperature						
Channel Bandwidth	Frequency (MHz)	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)
20 MHz	1732.5	3.80	-10	1.83	0.001	± 2.5
		3.80	0	11.12	0.006	± 2.5
		3.80	10	-11.52	-0.007	± 2.5
		3.80	20	-6.65	-0.004	± 2.5
		3.80	30	0.79	0.000	± 2.5
		3.80	40	1.86	0.001	± 2.5
		3.80	50	10.39	0.006	± 2.5
		3.80	55	-16.16	-0.009	± 2.5

This device temperature only support -10°C to +55°C.

LTE Band 13 _ QPSK						
Voltage						
Channel Bandwidth	Frequency (MHz)	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)
10 MHz	782.0	4.20	20	-5.97	-0.008	± 2.5
		3.80	20	-4.94	-0.006	± 2.5
		3.40	20	3.14	0.004	± 2.5
Temperature						
Channel Bandwidth	Frequency (MHz)	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)
10 MHz	782.0	3.80	-10	2.47	0.003	± 2.5
		3.80	0	-1.12	-0.001	± 2.5
		3.80	10	-13.72	-0.018	± 2.5
		3.80	20	-2.32	-0.003	± 2.5
		3.80	30	-7.18	-0.009	± 2.5
		3.80	40	-1.21	-0.002	± 2.5
		3.80	50	0.11	0.000	± 2.5
		3.80	55	-17.61	-0.023	± 2.5

This device temperature only support -10°C to +55°C.

5 Emission Bandwidth & Occupied Bandwidth Test

5.1. Limit

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

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

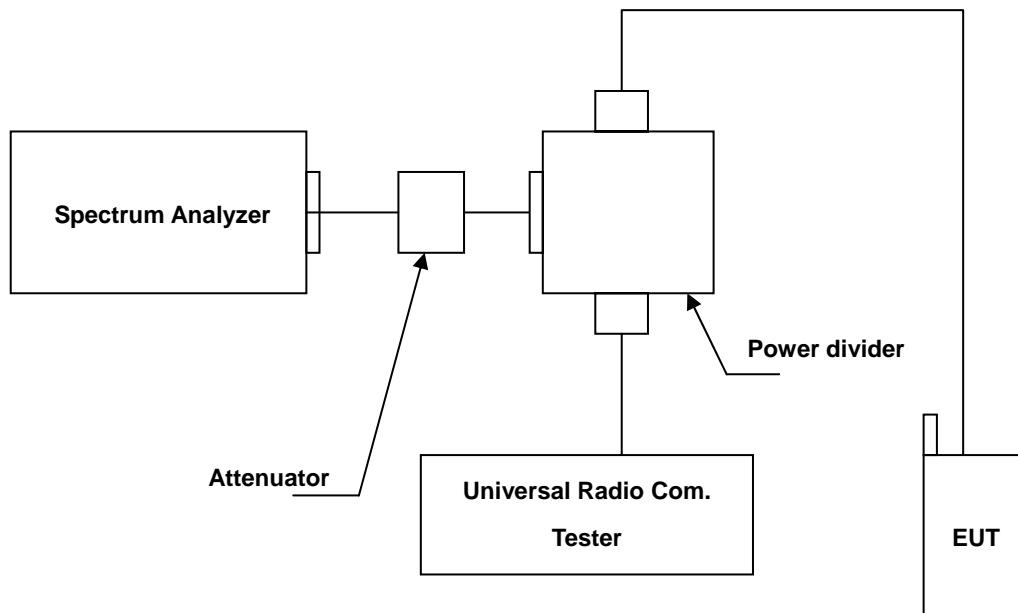
5.2. Test Instruments

Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Remark
Spectrum Analyzer	Agilent	E4445A	MY46181986	05/14/2015	(1)
Wideband Radio Communication Test	R & S	CMW500	103168	11/05/2014	(1)
Attenuator	RADIALL	R41572000	0603033073	N.C.R.	-----
Power divider	Agilent	87302C	3239A00760	N.C.R.	-----
Test Site	ATL	TE05	TE05	N.C.R.	-----

Remark: ⁽¹⁾ Calibration period 1 year. ⁽²⁾ Calibration period 2 years.

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

5.3. Setup



5.4. Test Procedure

The measurement is made according to FCC rules:

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

5.5. Uncertainty

The measurement uncertainty is defined as $\pm 10\text{Hz}$

5.6. Test Result

Model Number	LE910-SV V2		
Test Item	Emission Bandwidth & Occupied Bandwidth		
Date of Test	06/12/2015	Test Site	TE05

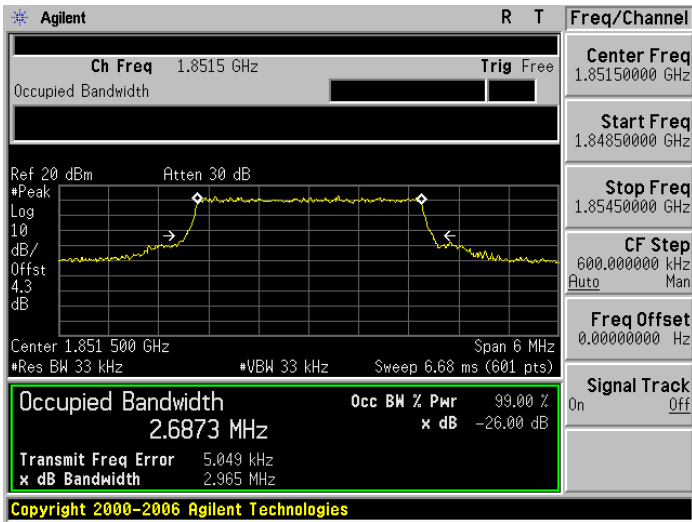
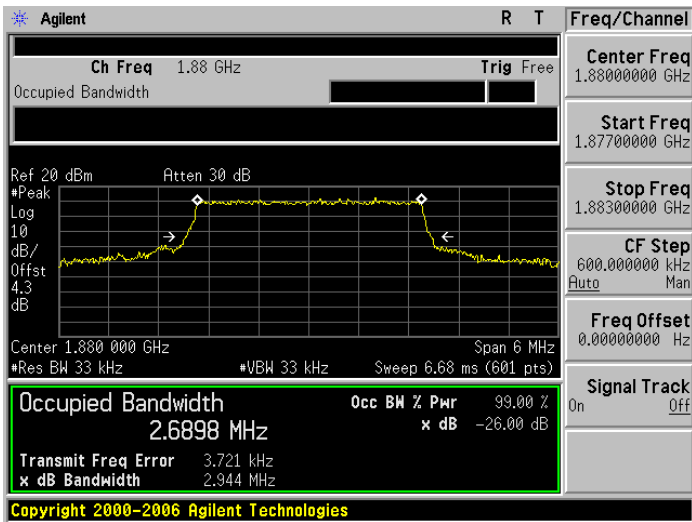
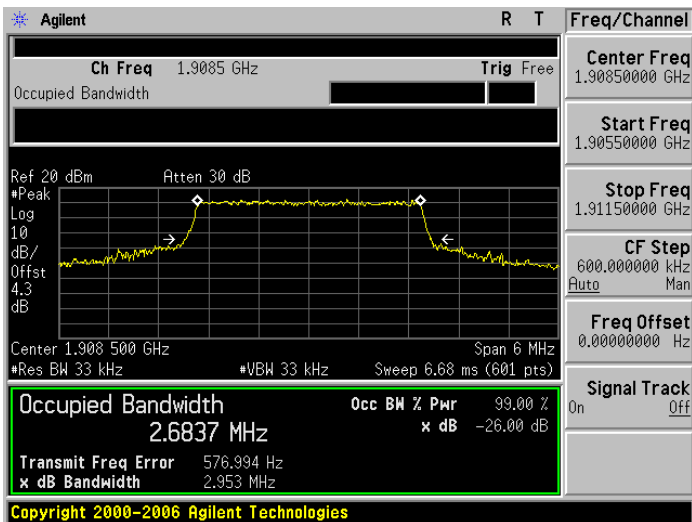
LTE Band 2				
Modulation	Channel Bandwidth	Frequency (MHz)	26dB Bandwidth (MHz)	Occupied Bandwidth (MHz)
QPSK	1.4 MHz	1850.7	1.280	1.0773
		1880.0	1.282	1.0775
		1909.3	1.254	1.0788
	3 MHz	1851.5	2.965	2.6873
		1880.0	2.944	2.6898
		1908.5	2.953	2.6837
	5 MHz	1852.5	4.916	4.4780
		1880.0	4.954	4.4467
		1907.5	4.897	4.4577
	10 MHz	1855.0	10.033	8.9639
		1880.0	9.789	8.9617
		1905.0	9.762	8.9419
	15 MHz	1857.5	14.952	13.4410
		1880.0	15.285	13.4666
		1902.5	14.532	13.3653
	20 MHz	1860.0	19.294	17.8227
		1880.0	19.878	17.9554
		1900.0	19.598	17.8392
16QAM	1.4 MHz	1850.7	1.260	1.0768
		1880.0	1.279	1.0777
		1909.3	1.253	1.0777
	3 MHz	1851.5	2.962	2.6875
		1880.0	2.946	2.6863
		1908.5	2.952	2.6859
	5 MHz	1852.5	4.892	4.4628
		1880.0	4.959	4.4552
		1907.5	4.908	4.4507
	10 MHz	1855.0	10.004	8.9593
		1880.0	9.954	8.9674
		1905.0	9.764	8.9461
	15 MHz	1857.5	14.944	13.4353
		1880.0	15.152	13.4580
		1902.5	14.379	13.3628
	20 MHz	1860.0	19.222	17.7911
		1880.0	19.566	17.9370
		1900.0	19.590	17.8305

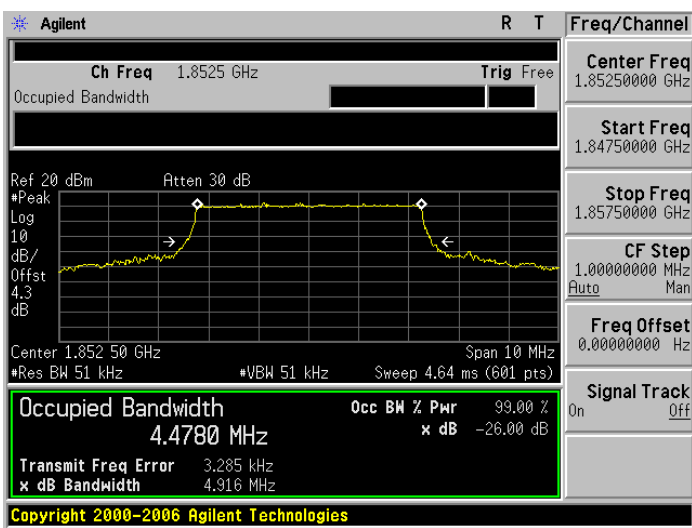
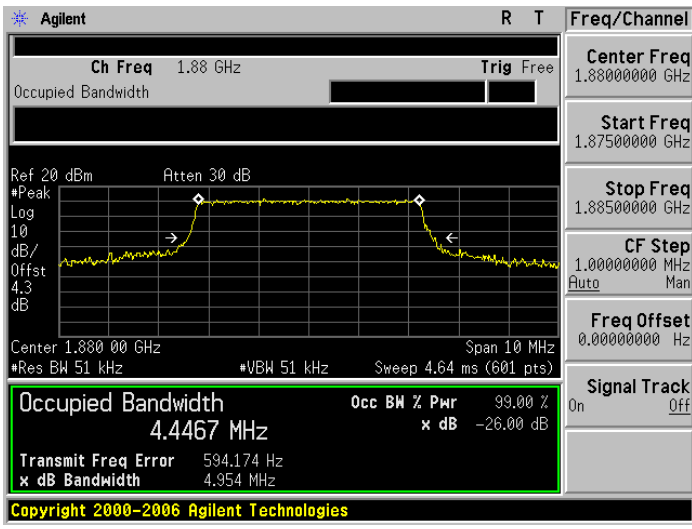
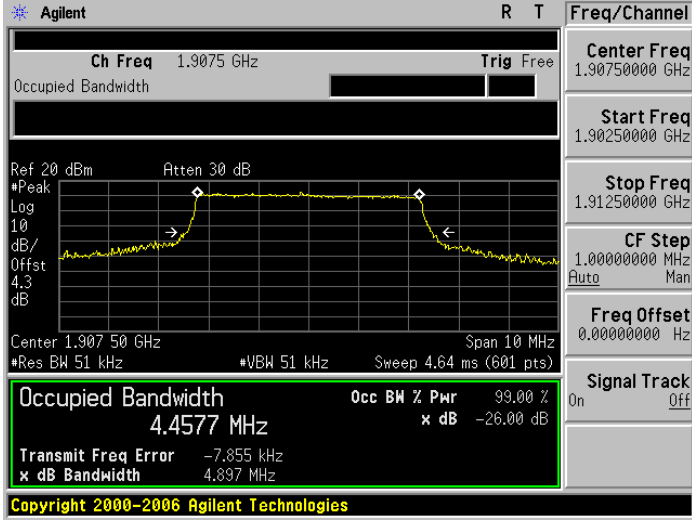
LTE Band 4				
Modulation	Channel Bandwidth	Frequency (MHz)	26dB Bandwidth (MHz)	Occupied Bandwidth (MHz)
QPSK	1.4 MHz	1710.7	1.281	1.0801
		1732.5	1.252	1.0785
		1754.3	1.267	1.0756
	3 MHz	1711.5	2.930	2.6848
		1732.5	2.977	2.6772
		1753.5	2.943	2.6857
	5 MHz	1712.5	4.884	4.4765
		1732.5	4.956	4.4528
		1752.5	4.963	4.4585
	10 MHz	1715.0	9.904	8.9653
		1732.5	9.698	8.9582
		1750.0	10.121	8.9584
	15 MHz	1717.5	15.165	13.4579
		1732.5	14.839	13.4172
		1747.5	14.969	13.4395
	20 MHz	1720.0	19.659	17.8339
		1732.5	19.512	17.8600
		1745.0	20.109	17.9091
16QAM	1.4 MHz	1710.7	1.281	1.0765
		1732.5	1.253	1.0786
		1754.3	1.267	1.0756
	3 MHz	1711.5	2.930	2.6828
		1732.5	2.978	2.6949
		1753.5	2.933	2.6874
	5 MHz	1712.5	4.881	4.4760
		1732.5	4.966	4.4593
		1752.5	4.952	4.4519
	10 MHz	1715.0	9.933	8.9705
		1732.5	9.821	8.9560
		1750.0	10.135	8.9630
	15 MHz	1717.5	15.121	13.4579
		1732.5	14.952	13.4108
		1747.5	14.881	13.4502
	20 MHz	1720.0	19.427	17.8316
		1732.5	19.416	17.8521
		1745.0	20.034	17.8659

LTE Band 13				
Modulation	Channel Bandwidth	Frequency (MHz)	-26dB Bandwidth (MHz)	Occupied Bandwidth (MHz)
QPSK	5 MHz	779.5	4.943	4.4706
		782.0	4.933	4.4536
		784.5	4.831	4.4635
	10 MHz	782.0	9.871	8.9669
16QAM	5 MHz	779.5	4.945	4.4701
		782.0	4.947	4.4608
		784.5	4.836	4.4461
	10 MHz	782.0	9.871	8.9580

5.7. Test Graphs

LTE Band 2 (Channel Bandwidth: 1.4 MHz) _ QPSK	
1850.7 MHz	<p>Agilent R T Freq/Channel</p> <p>Ch Freq 1.8507 GHz Trig Free</p> <p>Center Freq 1.85070000 GHz</p> <p>Start Freq 1.84920000 GHz</p> <p>Stop Freq 1.85220000 GHz</p> <p>CF Step 300.000000 kHz Auto Man</p> <p>Freq Offset 0.00000000 Hz</p> <p>Signal Track On Off</p> <p>Ref 20 dBm Atten 30 dB</p> <p>#Peak Log 10 dB/Offst 4.3 dB</p> <p>Center 1.850 700 GHz Span 3 MHz</p> <p>#Res BW 15 kHz #VBW 15 kHz Sweep 16.08 ms (601 pts)</p> <p>Occupied Bandwidth 1.0773 MHz</p> <p>Occ BW % Pwr 99.00 % x dB -26.00 dB</p> <p>Transmit Freq Error 3.237 kHz</p> <p>x dB Bandwidth 1.280 MHz</p> <p>Copyright 2000-2006 Agilent Technologies</p>
1880.0 MHz	<p>Agilent R T Freq/Channel</p> <p>Ch Freq 1.88 GHz Trig Free</p> <p>Center Freq 1.88000000 GHz</p> <p>Start Freq 1.87850000 GHz</p> <p>Stop Freq 1.88150000 GHz</p> <p>CF Step 300.000000 kHz Auto Man</p> <p>Freq Offset 0.00000000 Hz</p> <p>Signal Track On Off</p> <p>Ref 20 dBm Atten 30 dB</p> <p>#Peak Log 10 dB/Offst 4.3 dB</p> <p>Center 1.880 000 GHz Span 3 MHz</p> <p>#Res BW 15 kHz #VBW 15 kHz Sweep 16.08 ms (601 pts)</p> <p>Occupied Bandwidth 1.0775 MHz</p> <p>Occ BW % Pwr 99.00 % x dB -26.00 dB</p> <p>Transmit Freq Error -823.029 Hz</p> <p>x dB Bandwidth 1.282 MHz</p> <p>Copyright 2000-2006 Agilent Technologies</p>
1909.3 MHz	<p>Agilent R T Freq/Channel</p> <p>Ch Freq 1.9093 GHz Trig Free</p> <p>Center Freq 1.90930000 GHz</p> <p>Start Freq 1.90780000 GHz</p> <p>Stop Freq 1.91080000 GHz</p> <p>CF Step 300.000000 kHz Auto Man</p> <p>Freq Offset 0.00000000 Hz</p> <p>Signal Track On Off</p> <p>Ref 20 dBm Atten 30 dB</p> <p>#Peak Log 10 dB/Offst 4.3 dB</p> <p>Center 1.909 300 GHz Span 3 MHz</p> <p>#Res BW 15 kHz #VBW 15 kHz Sweep 16.08 ms (601 pts)</p> <p>Occupied Bandwidth 1.0788 MHz</p> <p>Occ BW % Pwr 99.00 % x dB -26.00 dB</p> <p>Transmit Freq Error 133.519 Hz</p> <p>x dB Bandwidth 1.254 MHz</p> <p>Copyright 2000-2006 Agilent Technologies</p>

LTE Band 2 (Channel Bandwidth: 3 MHz) _ QPSK	
1851.5 MHz	 <p>Agilent R T Freq/Channel</p> <p>Ch Freq 1.8515 GHz Trig Free</p> <p>Center Freq 1.85150000 GHz</p> <p>Start Freq 1.84850000 GHz</p> <p>Stop Freq 1.85450000 GHz</p> <p>CF Step 600.000000 kHz</p> <p>Freq Offset 0.00000000 Hz</p> <p>Signal Track On Off</p> <p>Ref 20 dBm Atten 30 dB</p> <p>#Peak Log 10 dB/Offst 4.3 dB</p> <p>Center 1.851 500 GHz Span 6 MHz</p> <p>#Res BW 33 kHz #VBW 33 kHz Sweep 6.68 ms (601 pts)</p> <p>Occupied Bandwidth 2.6873 MHz</p> <p>Occ BW % Pwr 99.00 %</p> <p>x dB Bandwidth 2.965 MHz x dB -26.00 dB</p> <p>Transmit Freq Error 5.049 kHz</p> <p>Copyright 2000-2006 Agilent Technologies</p>
1880.0 MHz	 <p>Agilent R T Freq/Channel</p> <p>Ch Freq 1.88 GHz Trig Free</p> <p>Center Freq 1.88000000 GHz</p> <p>Start Freq 1.87700000 GHz</p> <p>Stop Freq 1.88300000 GHz</p> <p>CF Step 600.000000 kHz</p> <p>Freq Offset 0.00000000 Hz</p> <p>Signal Track On Off</p> <p>Ref 20 dBm Atten 30 dB</p> <p>#Peak Log 10 dB/Offst 4.3 dB</p> <p>Center 1.880 000 GHz Span 6 MHz</p> <p>#Res BW 33 kHz #VBW 33 kHz Sweep 6.68 ms (601 pts)</p> <p>Occupied Bandwidth 2.6898 MHz</p> <p>Occ BW % Pwr 99.00 %</p> <p>x dB Bandwidth 2.944 MHz x dB -26.00 dB</p> <p>Transmit Freq Error 3.721 kHz</p> <p>Copyright 2000-2006 Agilent Technologies</p>
1908.5 MHz	 <p>Agilent R T Freq/Channel</p> <p>Ch Freq 1.9085 GHz Trig Free</p> <p>Center Freq 1.90850000 GHz</p> <p>Start Freq 1.90550000 GHz</p> <p>Stop Freq 1.91150000 GHz</p> <p>CF Step 600.000000 kHz</p> <p>Freq Offset 0.00000000 Hz</p> <p>Signal Track On Off</p> <p>Ref 20 dBm Atten 30 dB</p> <p>#Peak Log 10 dB/Offst 4.3 dB</p> <p>Center 1.908 500 GHz Span 6 MHz</p> <p>#Res BW 33 kHz #VBW 33 kHz Sweep 6.68 ms (601 pts)</p> <p>Occupied Bandwidth 2.6837 MHz</p> <p>Occ BW % Pwr 99.00 %</p> <p>x dB Bandwidth 2.953 MHz x dB -26.00 dB</p> <p>Transmit Freq Error 576.994 Hz</p> <p>Copyright 2000-2006 Agilent Technologies</p>

LTE Band 2 (Channel Bandwidth: 5 MHz) _ QPSK	
1852.5 MHz	 <p>Agilent R T Freq/Channel</p> <p>Ch Freq 1.8525 GHz Trig Free</p> <p>Center Freq 1.85250000 GHz</p> <p>Start Freq 1.84750000 GHz</p> <p>Stop Freq 1.85750000 GHz</p> <p>CF Step 1.00000000 MHz</p> <p>Freq Offset 0.00000000 Hz</p> <p>Signal Track On Off</p> <p>Ref 20 dBm Atten 30 dB</p> <p>#Peak Log 10 dB/Offst 4.3 dB</p> <p>Center 1.852 50 GHz Span 10 MHz</p> <p>#Res BW 51 kHz #VBW 51 kHz Sweep 4.64 ms (601 pts)</p> <p>Occupied Bandwidth 4.4780 MHz</p> <p>Occ BW % Pwr 99.00 %</p> <p>x dB -26.00 dB</p> <p>Transmit Freq Error 3.285 kHz</p> <p>x dB Bandwidth 4.916 MHz</p> <p>Copyright 2000-2006 Agilent Technologies</p>
1880.0 MHz	 <p>Agilent R T Freq/Channel</p> <p>Ch Freq 1.88 GHz Trig Free</p> <p>Center Freq 1.88000000 GHz</p> <p>Start Freq 1.87500000 GHz</p> <p>Stop Freq 1.88500000 GHz</p> <p>CF Step 1.00000000 MHz</p> <p>Freq Offset 0.00000000 Hz</p> <p>Signal Track On Off</p> <p>Ref 20 dBm Atten 30 dB</p> <p>#Peak Log 10 dB/Offst 4.3 dB</p> <p>Center 1.880 00 GHz Span 10 MHz</p> <p>#Res BW 51 kHz #VBW 51 kHz Sweep 4.64 ms (601 pts)</p> <p>Occupied Bandwidth 4.4467 MHz</p> <p>Occ BW % Pwr 99.00 %</p> <p>x dB -26.00 dB</p> <p>Transmit Freq Error 594.174 Hz</p> <p>x dB Bandwidth 4.954 MHz</p> <p>Copyright 2000-2006 Agilent Technologies</p>
1907.5 MHz	 <p>Agilent R T Freq/Channel</p> <p>Ch Freq 1.9075 GHz Trig Free</p> <p>Center Freq 1.90750000 GHz</p> <p>Start Freq 1.90250000 GHz</p> <p>Stop Freq 1.91250000 GHz</p> <p>CF Step 1.00000000 MHz</p> <p>Freq Offset 0.00000000 Hz</p> <p>Signal Track On Off</p> <p>Ref 20 dBm Atten 30 dB</p> <p>#Peak Log 10 dB/Offst 4.3 dB</p> <p>Center 1.907 50 GHz Span 10 MHz</p> <p>#Res BW 51 kHz #VBW 51 kHz Sweep 4.64 ms (601 pts)</p> <p>Occupied Bandwidth 4.4577 MHz</p> <p>Occ BW % Pwr 99.00 %</p> <p>x dB -26.00 dB</p> <p>Transmit Freq Error -7.855 kHz</p> <p>x dB Bandwidth 4.897 MHz</p> <p>Copyright 2000-2006 Agilent Technologies</p>

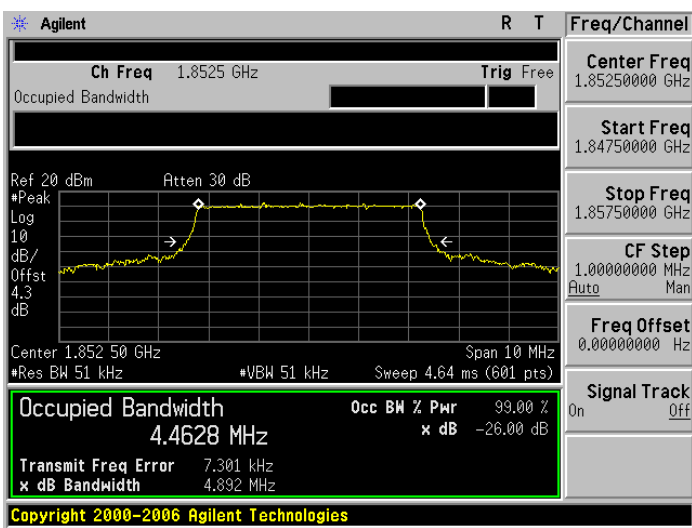
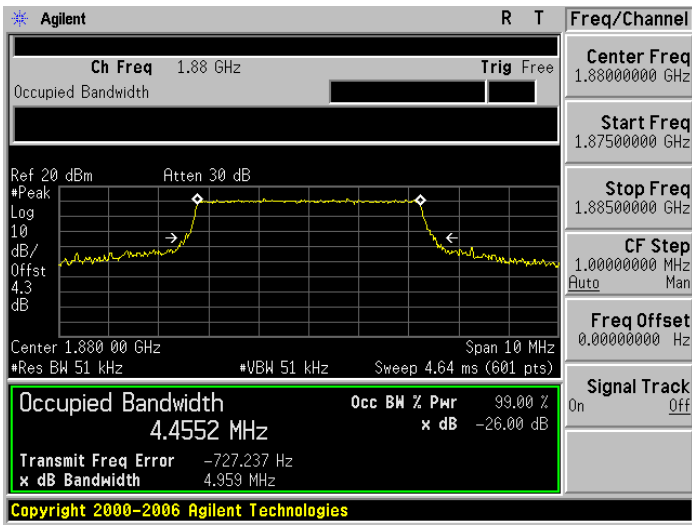
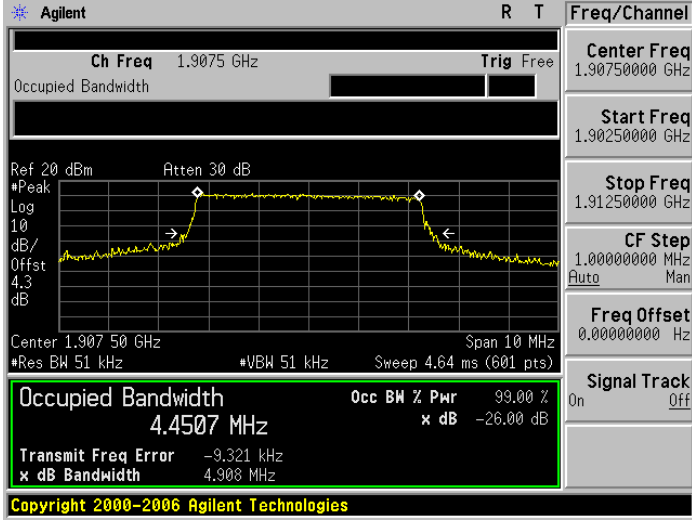
LTE Band 2 (Channel Bandwidth: 10 MHz) _ QPSK	
1855.0 MHz	<p>Agilent R T Freq/Channel</p> <p>Ch Freq 1.855 GHz Trig Free</p> <p>Center Freq 1.85500000 GHz</p> <p>Start Freq 1.84500000 GHz</p> <p>Stop Freq 1.86500000 GHz</p> <p>CF Step 2.00000000 MHz</p> <p>Freq Offset 0.00000000 Hz</p> <p>Signal Track On</p> <p>Ref 20 dBm Atten 30 dB</p> <p>#Peak Log 10 dB/Offst 4.3 dB</p> <p>Center 1.855 00 GHz Span 20 MHz</p> <p>#Res BW 110 kHz #VBW 110 kHz Sweep 2 ms (601 pts)</p> <p>Occupied Bandwidth 8.9639 MHz</p> <p>Occ BW % Pwr 99.00 %</p> <p>x dB -26.00 dB</p> <p>Transmit Freq Error 25.598 kHz</p> <p>x dB Bandwidth 10.033 MHz</p> <p>Copyright 2000-2006 Agilent Technologies</p>
1880.0 MHz	<p>Agilent R T Freq/Channel</p> <p>Ch Freq 1.88 GHz Trig Free</p> <p>Center Freq 1.88000000 GHz</p> <p>Start Freq 1.87000000 GHz</p> <p>Stop Freq 1.89000000 GHz</p> <p>CF Step 2.00000000 MHz</p> <p>Freq Offset 0.00000000 Hz</p> <p>Signal Track Off</p> <p>Ref 20 dBm Atten 30 dB</p> <p>#Peak Log 10 dB/Offst 4.3 dB</p> <p>Center 1.880 00 GHz Span 20 MHz</p> <p>#Res BW 110 kHz #VBW 110 kHz Sweep 2 ms (601 pts)</p> <p>Occupied Bandwidth 8.9617 MHz</p> <p>Occ BW % Pwr 99.00 %</p> <p>x dB -26.00 dB</p> <p>Transmit Freq Error -3.237 kHz</p> <p>x dB Bandwidth 9.789 MHz</p> <p>Copyright 2000-2006 Agilent Technologies</p>
1905.0 MHz	<p>Agilent R T Freq/Channel</p> <p>Ch Freq 1.905 GHz Trig Free</p> <p>Center Freq 1.90500000 GHz</p> <p>Start Freq 1.89500000 GHz</p> <p>Stop Freq 1.91500000 GHz</p> <p>CF Step 2.00000000 MHz</p> <p>Freq Offset 0.00000000 Hz</p> <p>Signal Track Off</p> <p>Ref 20 dBm Atten 30 dB</p> <p>#Peak Log 10 dB/Offst 4.3 dB</p> <p>Center 1.905 00 GHz Span 20 MHz</p> <p>#Res BW 110 kHz #VBW 110 kHz Sweep 2 ms (601 pts)</p> <p>Occupied Bandwidth 8.9419 MHz</p> <p>Occ BW % Pwr 99.00 %</p> <p>x dB -26.00 dB</p> <p>Transmit Freq Error -23.755 kHz</p> <p>x dB Bandwidth 9.762 MHz</p> <p>Copyright 2000-2006 Agilent Technologies</p>

LTE Band 2 (Channel Bandwidth: 15 MHz) _ QPSK	
1857.5 MHz	<p>Agilent R T Freq/Channel</p> <p>Ch Freq 1.8575 GHz Trig Free</p> <p>Center Freq 1.85750000 GHz</p> <p>Start Freq 1.84250000 GHz</p> <p>Stop Freq 1.87250000 GHz</p> <p>CF Step 3.00000000 MHz</p> <p>Freq Offset 0.00000000 Hz</p> <p>Signal Track On Off</p> <p>Ref 20 dBm Atten 30 dB</p> <p>#Peak Log 10 dB/Offst 4.3 dB</p> <p>Center 1.857 50 GHz Span 30 MHz</p> <p>#Res BW 160 kHz #VBW 160 kHz Sweep 1.44 ms (601 pts)</p> <p>Occupied Bandwidth 13.4410 MHz</p> <p>Occ BW % Pwr 99.00 %</p> <p>x dB -26.00 dB</p> <p>Transmit Freq Error 51.733 kHz</p> <p>x dB Bandwidth 14.952 MHz</p> <p>Copyright 2000-2006 Agilent Technologies</p>
1880.0 MHz	<p>Agilent R T Freq/Channel</p> <p>Ch Freq 1.88 GHz Trig Free</p> <p>Center Freq 1.88000000 GHz</p> <p>Start Freq 1.86500000 GHz</p> <p>Stop Freq 1.89500000 GHz</p> <p>CF Step 3.00000000 MHz</p> <p>Freq Offset 0.00000000 Hz</p> <p>Signal Track On Off</p> <p>Ref 20 dBm Atten 30 dB</p> <p>#Peak Log 10 dB/Offst 4.3 dB</p> <p>Center 1.880 00 GHz Span 30 MHz</p> <p>#Res BW 160 kHz #VBW 160 kHz Sweep 1.44 ms (601 pts)</p> <p>Occupied Bandwidth 13.4666 MHz</p> <p>Occ BW % Pwr 99.00 %</p> <p>x dB -26.00 dB</p> <p>Transmit Freq Error -17.264 kHz</p> <p>x dB Bandwidth 15.285 MHz</p> <p>Copyright 2000-2006 Agilent Technologies</p>
1902.5 MHz	<p>Agilent R T Freq/Channel</p> <p>Ch Freq 1.9025 GHz Trig Free</p> <p>Center Freq 1.90250000 GHz</p> <p>Start Freq 1.88750000 GHz</p> <p>Stop Freq 1.91750000 GHz</p> <p>CF Step 3.00000000 MHz</p> <p>Freq Offset 0.00000000 Hz</p> <p>Signal Track On Off</p> <p>Ref 20 dBm Atten 30 dB</p> <p>#Peak Log 10 dB/Offst 4.3 dB</p> <p>Center 1.902 50 GHz Span 30 MHz</p> <p>#Res BW 160 kHz #VBW 160 kHz Sweep 1.44 ms (601 pts)</p> <p>Occupied Bandwidth 13.3653 MHz</p> <p>Occ BW % Pwr 99.00 %</p> <p>x dB -26.00 dB</p> <p>Transmit Freq Error -15.972 kHz</p> <p>x dB Bandwidth 14.532 MHz</p> <p>Copyright 2000-2006 Agilent Technologies</p>

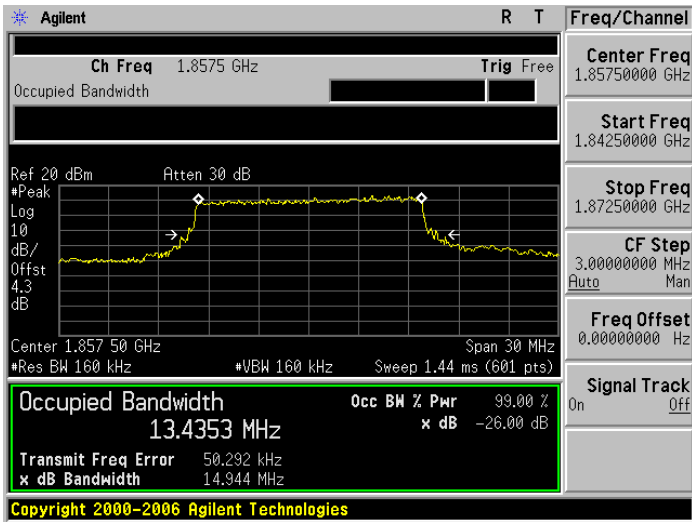
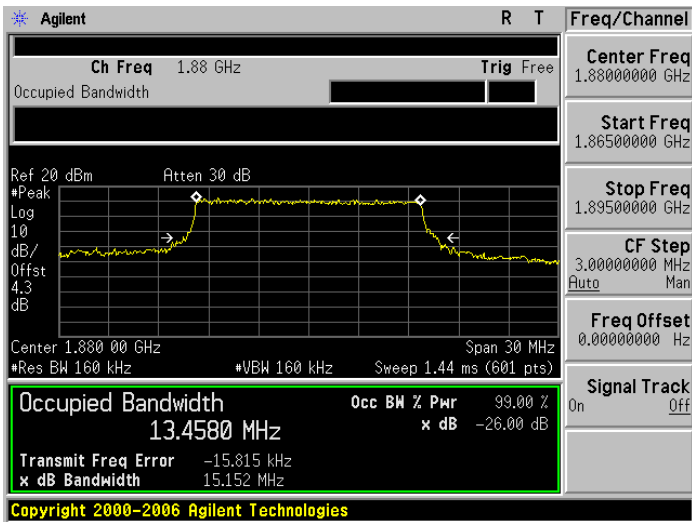
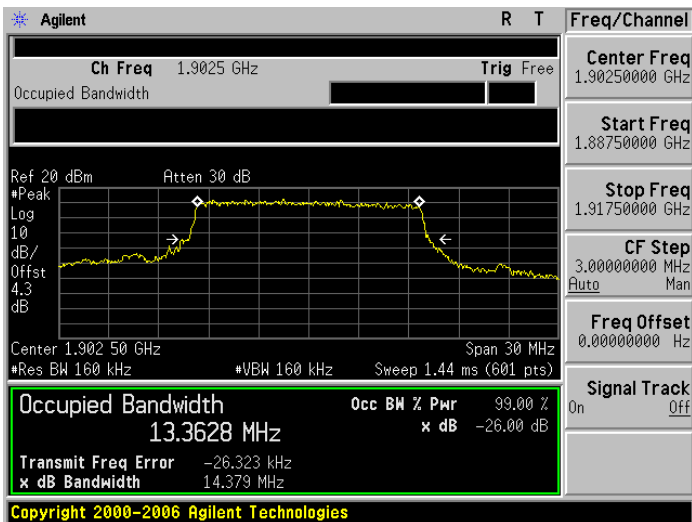
LTE Band 2 (Channel Bandwidth: 20 MHz) _ QPSK	
1860.0 MHz	<p>Agilent R T Freq/Channel</p> <p>Ch Freq 1.86 GHz Trig Free</p> <p>Center Freq 1.86000000 GHz</p> <p>Start Freq 1.84000000 GHz</p> <p>Stop Freq 1.88000000 GHz</p> <p>CF Step 4.00000000 MHz</p> <p>Freq Offset 0.00000000 Hz</p> <p>Signal Track On Off</p> <p>Ref 20 dBm Atten 30 dB</p> <p>#Peak Log 10 dB/Offst 4.3 dB</p> <p>Center 1.860 00 GHz Span 40 MHz</p> <p>#Res BW 220 kHz #VBW 220 kHz Sweep 1 ms (601 pts)</p> <p>Occupied Bandwidth 17.8227 MHz</p> <p>Occ BW % Pwr 99.00 %</p> <p>x dB -26.00 dB</p> <p>Transmit Freq Error 76.980 kHz</p> <p>x dB Bandwidth 19.294 MHz</p> <p>Copyright 2000-2006 Agilent Technologies</p>
1880.0 MHz	<p>Agilent R T Freq/Channel</p> <p>Ch Freq 1.88 GHz Trig Free</p> <p>Center Freq 1.88000000 GHz</p> <p>Start Freq 1.86000000 GHz</p> <p>Stop Freq 1.90000000 GHz</p> <p>CF Step 4.00000000 MHz</p> <p>Freq Offset 0.00000000 Hz</p> <p>Signal Track On Off</p> <p>Ref 20 dBm Atten 30 dB</p> <p>#Peak Log 10 dB/Offst 4.3 dB</p> <p>Center 1.880 00 GHz Span 40 MHz</p> <p>#Res BW 220 kHz #VBW 220 kHz Sweep 1 ms (601 pts)</p> <p>Occupied Bandwidth 17.9554 MHz</p> <p>Occ BW % Pwr 99.00 %</p> <p>x dB -26.00 dB</p> <p>Transmit Freq Error 2.187 kHz</p> <p>x dB Bandwidth 19.878 MHz</p> <p>Copyright 2000-2006 Agilent Technologies</p>
1900.0 MHz	<p>Agilent R T Freq/Channel</p> <p>Ch Freq 1.9 GHz Trig Free</p> <p>Center Freq 1.90000000 GHz</p> <p>Start Freq 1.88000000 GHz</p> <p>Stop Freq 1.92000000 GHz</p> <p>CF Step 4.00000000 MHz</p> <p>Freq Offset 0.00000000 Hz</p> <p>Signal Track On Off</p> <p>Ref 20 dBm Atten 30 dB</p> <p>#Peak Log 10 dB/Offst 4.3 dB</p> <p>Center 1.900 00 GHz Span 40 MHz</p> <p>#Res BW 220 kHz #VBW 220 kHz Sweep 1 ms (601 pts)</p> <p>Occupied Bandwidth 17.8392 MHz</p> <p>Occ BW % Pwr 99.00 %</p> <p>x dB -26.00 dB</p> <p>Transmit Freq Error -10.786 kHz</p> <p>x dB Bandwidth 19.598 MHz</p> <p>Copyright 2000-2006 Agilent Technologies</p>

LTE Band 2 (Channel Bandwidth: 1.4 MHz) _ 16QAM	
1850.7 MHz	<p>Agilent R T Freq/Channel</p> <p>Ch Freq 1.8507 GHz Trig Free</p> <p>Center Freq 1.85070000 GHz</p> <p>Start Freq 1.84920000 GHz</p> <p>Stop Freq 1.85220000 GHz</p> <p>CF Step 300.000000 kHz</p> <p>Freq Offset 0.00000000 Hz</p> <p>Signal Track On Off</p> <p>Ref 20 dBm Atten 30 dB</p> <p>#Peak Log 10 dB/ Offst 4.3 dB</p> <p>Center 1.850 700 GHz Span 3 MHz</p> <p>#Res BW 15 kHz #VBW 15 kHz Sweep 16.08 ms (601 pts)</p> <p>Occupied Bandwidth 1.0768 MHz</p> <p>Occ BW % Pwr 99.00 %</p> <p>x dB -26.00 dB</p> <p>Transmit Freq Error 2.718 kHz</p> <p>x dB Bandwidth 1.200 MHz</p> <p>Copyright 2000-2006 Agilent Technologies</p>
1880.0 MHz	<p>Agilent R T Freq/Channel</p> <p>Ch Freq 1.88 GHz Trig Free</p> <p>Center Freq 1.88000000 GHz</p> <p>Start Freq 1.87850000 GHz</p> <p>Stop Freq 1.88150000 GHz</p> <p>CF Step 300.000000 kHz</p> <p>Freq Offset 0.00000000 Hz</p> <p>Signal Track On Off</p> <p>Ref 20 dBm Atten 30 dB</p> <p>#Peak Log 10 dB/ Offst 4.3 dB</p> <p>Center 1.880 000 GHz Span 3 MHz</p> <p>#Res BW 15 kHz #VBW 15 kHz Sweep 16.08 ms (601 pts)</p> <p>Occupied Bandwidth 1.0777 MHz</p> <p>Occ BW % Pwr 99.00 %</p> <p>x dB -26.00 dB</p> <p>Transmit Freq Error -1.461 kHz</p> <p>x dB Bandwidth 1.279 MHz</p> <p>Copyright 2000-2006 Agilent Technologies</p>
1909.3 MHz	<p>Agilent R T Freq/Channel</p> <p>Ch Freq 1.9093 GHz Trig Free</p> <p>Center Freq 1.90930000 GHz</p> <p>Start Freq 1.90780000 GHz</p> <p>Stop Freq 1.91080000 GHz</p> <p>CF Step 300.000000 kHz</p> <p>Freq Offset 0.00000000 Hz</p> <p>Signal Track On Off</p> <p>Ref 20 dBm Atten 30 dB</p> <p>#Peak Log 10 dB/ Offst 4.3 dB</p> <p>Center 1.909 300 GHz Span 3 MHz</p> <p>#Res BW 15 kHz #VBW 15 kHz Sweep 16.08 ms (601 pts)</p> <p>Occupied Bandwidth 1.0777 MHz</p> <p>Occ BW % Pwr 99.00 %</p> <p>x dB -26.00 dB</p> <p>Transmit Freq Error -598.511 Hz</p> <p>x dB Bandwidth 1.253 MHz</p> <p>Copyright 2000-2006 Agilent Technologies</p>

LTE Band 2 (Channel Bandwidth: 3 MHz) _ 16QAM	
1851.5 MHz	<p>Agilent R T Freq/Channel</p> <p>Ch Freq 1.8515 GHz Trig Free</p> <p>Center Freq 1.85150000 GHz</p> <p>Start Freq 1.84850000 GHz</p> <p>Stop Freq 1.85450000 GHz</p> <p>CF Step 600.000000 kHz</p> <p>Freq Offset 0.00000000 Hz</p> <p>Signal Track On Off</p> <p>Ref 20 dBm Atten 30 dB</p> <p>#Peak Log 10 dB/Offst 4.3 dB</p> <p>Center 1.851 500 GHz Span 6 MHz</p> <p>#Res BW 33 kHz #VBW 33 kHz Sweep 6.68 ms (601 pts)</p> <p>Occupied Bandwidth 2.6875 MHz</p> <p>Occ BW % Pwr 99.00 %</p> <p>x dB -26.00 dB</p> <p>Transmit Freq Error 4.423 kHz</p> <p>x dB Bandwidth 2.962 MHz</p> <p>Copyright 2000-2006 Agilent Technologies</p>
1880.0 MHz	<p>Agilent R T Freq/Channel</p> <p>Ch Freq 1.88 GHz Trig Free</p> <p>Center Freq 1.88000000 GHz</p> <p>Start Freq 1.87700000 GHz</p> <p>Stop Freq 1.88300000 GHz</p> <p>CF Step 600.000000 kHz</p> <p>Freq Offset 0.00000000 Hz</p> <p>Signal Track On Off</p> <p>Ref 20 dBm Atten 30 dB</p> <p>#Peak Log 10 dB/Offst 4.3 dB</p> <p>Center 1.880 000 GHz Span 6 MHz</p> <p>#Res BW 33 kHz #VBW 33 kHz Sweep 6.68 ms (601 pts)</p> <p>Occupied Bandwidth 2.6863 MHz</p> <p>Occ BW % Pwr 99.00 %</p> <p>x dB -26.00 dB</p> <p>Transmit Freq Error 3.530 kHz</p> <p>x dB Bandwidth 2.946 MHz</p> <p>Copyright 2000-2006 Agilent Technologies</p>
1908.5 MHz	<p>Agilent R T Freq/Channel</p> <p>Ch Freq 1.9085 GHz Trig Free</p> <p>Center Freq 1.90850000 GHz</p> <p>Start Freq 1.90550000 GHz</p> <p>Stop Freq 1.91150000 GHz</p> <p>CF Step 600.000000 kHz</p> <p>Freq Offset 0.00000000 Hz</p> <p>Signal Track On Off</p> <p>Ref 20 dBm Atten 30 dB</p> <p>#Peak Log 10 dB/Offst 4.3 dB</p> <p>Center 1.908 500 GHz Span 6 MHz</p> <p>#Res BW 33 kHz #VBW 33 kHz Sweep 6.68 ms (601 pts)</p> <p>Occupied Bandwidth 2.6859 MHz</p> <p>Occ BW % Pwr 99.00 %</p> <p>x dB -26.00 dB</p> <p>Transmit Freq Error 691.933 Hz</p> <p>x dB Bandwidth 2.952 MHz</p> <p>Copyright 2000-2006 Agilent Technologies</p>

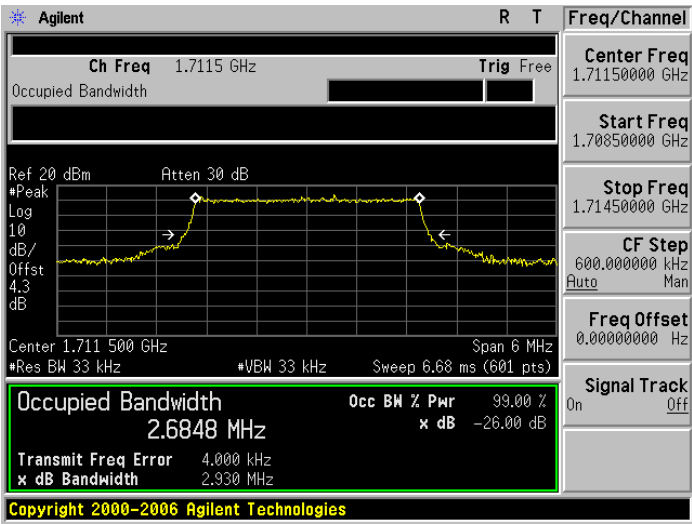
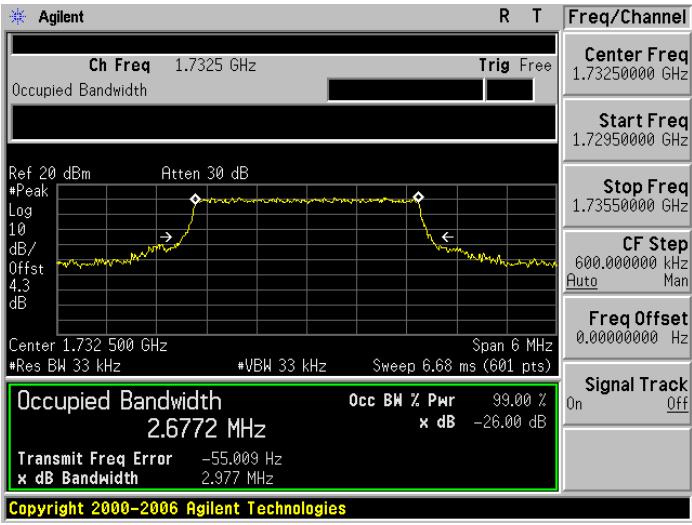
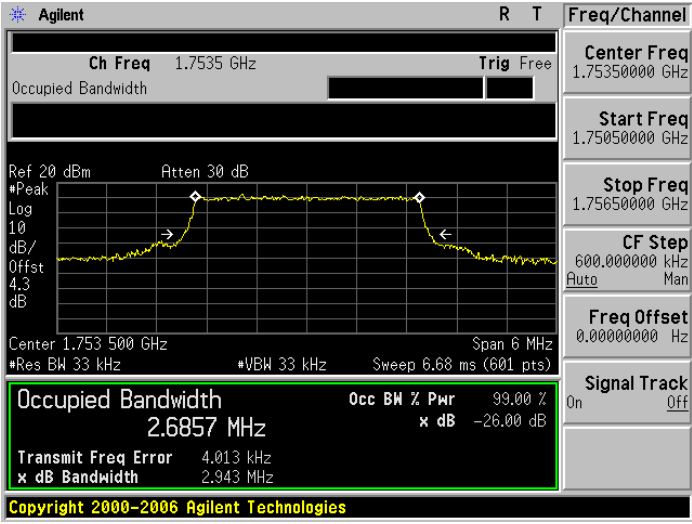
LTE Band 2 (Channel Bandwidth: 5 MHz) _ 16QAM	
1852.5 MHz	 <p>Agilent R T Freq/Channel</p> <p>Ch Freq 1.8525 GHz Trig Free</p> <p>Center Freq 1.85250000 GHz</p> <p>Start Freq 1.84750000 GHz</p> <p>Stop Freq 1.85750000 GHz</p> <p>CF Step 1.00000000 MHz</p> <p>Freq Offset 0.00000000 Hz</p> <p>Signal Track On Off</p> <p>Ref 20 dBm Atten 30 dB</p> <p>#Peak Log 10 dB/Offst 4.3 dB</p> <p>Center 1.852 50 GHz Span 10 MHz</p> <p>#Res BW 51 kHz #VBW 51 kHz Sweep 4.64 ms (601 pts)</p> <p>Occupied Bandwidth 4.4628 MHz</p> <p>Occ BW % Pwr 99.00 %</p> <p>x dB -26.00 dB</p> <p>Transmit Freq Error 7.301 kHz</p> <p>x dB Bandwidth 4.892 MHz</p> <p>Copyright 2000-2006 Agilent Technologies</p>
1880.0 MHz	 <p>Agilent R T Freq/Channel</p> <p>Ch Freq 1.88 GHz Trig Free</p> <p>Center Freq 1.88000000 GHz</p> <p>Start Freq 1.87500000 GHz</p> <p>Stop Freq 1.88500000 GHz</p> <p>CF Step 1.00000000 MHz</p> <p>Freq Offset 0.00000000 Hz</p> <p>Signal Track On Off</p> <p>Ref 20 dBm Atten 30 dB</p> <p>#Peak Log 10 dB/Offst 4.3 dB</p> <p>Center 1.880 00 GHz Span 10 MHz</p> <p>#Res BW 51 kHz #VBW 51 kHz Sweep 4.64 ms (601 pts)</p> <p>Occupied Bandwidth 4.4552 MHz</p> <p>Occ BW % Pwr 99.00 %</p> <p>x dB -26.00 dB</p> <p>Transmit Freq Error -727.237 Hz</p> <p>x dB Bandwidth 4.959 MHz</p> <p>Copyright 2000-2006 Agilent Technologies</p>
1907.5 MHz	 <p>Agilent R T Freq/Channel</p> <p>Ch Freq 1.9075 GHz Trig Free</p> <p>Center Freq 1.90750000 GHz</p> <p>Start Freq 1.90250000 GHz</p> <p>Stop Freq 1.91250000 GHz</p> <p>CF Step 1.00000000 MHz</p> <p>Freq Offset 0.00000000 Hz</p> <p>Signal Track On Off</p> <p>Ref 20 dBm Atten 30 dB</p> <p>#Peak Log 10 dB/Offst 4.3 dB</p> <p>Center 1.907 50 GHz Span 10 MHz</p> <p>#Res BW 51 kHz #VBW 51 kHz Sweep 4.64 ms (601 pts)</p> <p>Occupied Bandwidth 4.4507 MHz</p> <p>Occ BW % Pwr 99.00 %</p> <p>x dB -26.00 dB</p> <p>Transmit Freq Error -9.321 kHz</p> <p>x dB Bandwidth 4.908 MHz</p> <p>Copyright 2000-2006 Agilent Technologies</p>

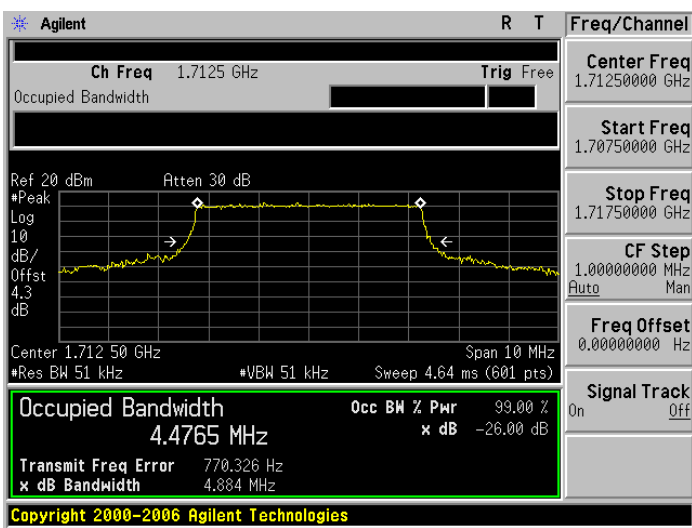
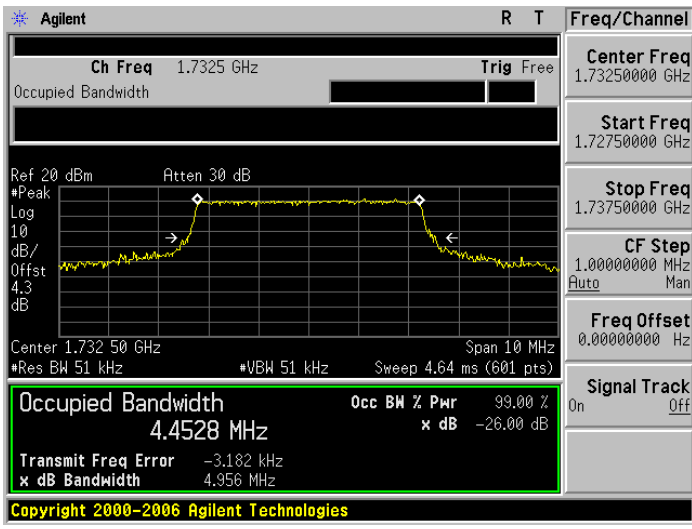
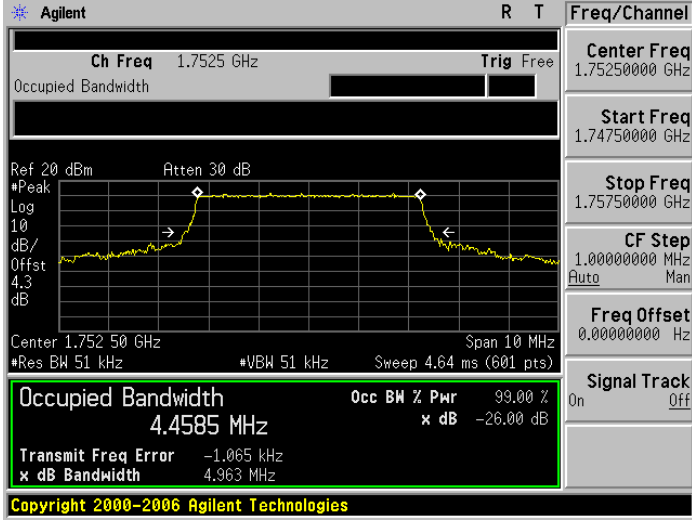
LTE Band 2 (Channel Bandwidth: 10 MHz) _ 16QAM	
1855.0 MHz	<p>Agilent R T Freq/Channel</p> <p>Ch Freq 1.855 GHz Trig Free</p> <p>Center Freq 1.85500000 GHz</p> <p>Start Freq 1.84500000 GHz</p> <p>Stop Freq 1.86500000 GHz</p> <p>CF Step 2.00000000 MHz</p> <p>Freq Offset 0.00000000 Hz</p> <p>Signal Track On</p> <p>Ref 20 dBm Atten 30 dB</p> <p>#Peak Log 10 dB/Offst 4.3 dB</p> <p>Center 1.855 00 GHz Span 20 MHz</p> <p>#Res BW 110 kHz #VBW 110 kHz Sweep 2 ms (601 pts)</p> <p>Occupied Bandwidth 8.9593 MHz</p> <p>Occ BW % Pwr 99.00 %</p> <p>x dB -26.00 dB</p> <p>Transmit Freq Error 21.766 kHz</p> <p>x dB Bandwidth 10.004 MHz</p> <p>Copyright 2000-2006 Agilent Technologies</p>
1880.0 MHz	<p>Agilent R T Freq/Channel</p> <p>Ch Freq 1.88 GHz Trig Free</p> <p>Center Freq 1.88000000 GHz</p> <p>Start Freq 1.87000000 GHz</p> <p>Stop Freq 1.89000000 GHz</p> <p>CF Step 2.00000000 MHz</p> <p>Freq Offset 0.00000000 Hz</p> <p>Signal Track Off</p> <p>Ref 20 dBm Atten 30 dB</p> <p>#Peak Log 10 dB/Offst 4.3 dB</p> <p>Center 1.880 00 GHz Span 20 MHz</p> <p>#Res BW 110 kHz #VBW 110 kHz Sweep 2 ms (601 pts)</p> <p>Occupied Bandwidth 8.9674 MHz</p> <p>Occ BW % Pwr 99.00 %</p> <p>x dB -26.00 dB</p> <p>Transmit Freq Error -8.319 kHz</p> <p>x dB Bandwidth 9.954 MHz</p> <p>Copyright 2000-2006 Agilent Technologies</p>
1905.0 MHz	<p>Agilent R T Freq/Channel</p> <p>Ch Freq 1.905 GHz Trig Free</p> <p>Center Freq 1.90500000 GHz</p> <p>Start Freq 1.89500000 GHz</p> <p>Stop Freq 1.91500000 GHz</p> <p>CF Step 2.00000000 MHz</p> <p>Freq Offset 0.00000000 Hz</p> <p>Signal Track Off</p> <p>Ref 20 dBm Atten 30 dB</p> <p>#Peak Log 10 dB/Offst 4.3 dB</p> <p>Center 1.905 00 GHz Span 20 MHz</p> <p>#Res BW 110 kHz #VBW 110 kHz Sweep 2 ms (601 pts)</p> <p>Occupied Bandwidth 8.9461 MHz</p> <p>Occ BW % Pwr 99.00 %</p> <p>x dB -26.00 dB</p> <p>Transmit Freq Error -19.879 kHz</p> <p>x dB Bandwidth 9.764 MHz</p> <p>Copyright 2000-2006 Agilent Technologies</p>

LTE Band 2 (Channel Bandwidth: 15 MHz) _ 16QAM	
1857.5 MHz	 <p>Agilent R T Freq/Channel</p> <p>Ch Freq 1.8575 GHz Trig Free</p> <p>Center Freq 1.85750000 GHz</p> <p>Start Freq 1.84250000 GHz</p> <p>Stop Freq 1.87250000 GHz</p> <p>CF Step 3.00000000 MHz</p> <p>Freq Offset 0.00000000 Hz</p> <p>Signal Track On Off</p> <p>Ref 20 dBm Atten 30 dB</p> <p>#Peak Log 10 dB/Offst 4.3 dB</p> <p>Center 1.857 50 GHz Span 30 MHz</p> <p>#Res BW 160 kHz #VBW 160 kHz Sweep 1.44 ms (601 pts)</p> <p>Occupied Bandwidth 13.4353 MHz</p> <p>Occ BW % Pwr 99.00 %</p> <p>x dB -26.00 dB</p> <p>Transmit Freq Error 50.292 kHz</p> <p>x dB Bandwidth 14.944 MHz</p> <p>Copyright 2000-2006 Agilent Technologies</p>
1880.0 MHz	 <p>Agilent R T Freq/Channel</p> <p>Ch Freq 1.88 GHz Trig Free</p> <p>Center Freq 1.88000000 GHz</p> <p>Start Freq 1.86500000 GHz</p> <p>Stop Freq 1.89500000 GHz</p> <p>CF Step 3.00000000 MHz</p> <p>Freq Offset 0.00000000 Hz</p> <p>Signal Track On Off</p> <p>Ref 20 dBm Atten 30 dB</p> <p>#Peak Log 10 dB/Offst 4.3 dB</p> <p>Center 1.880 00 GHz Span 30 MHz</p> <p>#Res BW 160 kHz #VBW 160 kHz Sweep 1.44 ms (601 pts)</p> <p>Occupied Bandwidth 13.4580 MHz</p> <p>Occ BW % Pwr 99.00 %</p> <p>x dB -26.00 dB</p> <p>Transmit Freq Error -15.815 kHz</p> <p>x dB Bandwidth 15.152 MHz</p> <p>Copyright 2000-2006 Agilent Technologies</p>
1902.5 MHz	 <p>Agilent R T Freq/Channel</p> <p>Ch Freq 1.9025 GHz Trig Free</p> <p>Center Freq 1.90250000 GHz</p> <p>Start Freq 1.88750000 GHz</p> <p>Stop Freq 1.91750000 GHz</p> <p>CF Step 3.00000000 MHz</p> <p>Freq Offset 0.00000000 Hz</p> <p>Signal Track On Off</p> <p>Ref 20 dBm Atten 30 dB</p> <p>#Peak Log 10 dB/Offst 4.3 dB</p> <p>Center 1.902 50 GHz Span 30 MHz</p> <p>#Res BW 160 kHz #VBW 160 kHz Sweep 1.44 ms (601 pts)</p> <p>Occupied Bandwidth 13.3628 MHz</p> <p>Occ BW % Pwr 99.00 %</p> <p>x dB -26.00 dB</p> <p>Transmit Freq Error -26.323 kHz</p> <p>x dB Bandwidth 14.379 MHz</p> <p>Copyright 2000-2006 Agilent Technologies</p>

LTE Band 2 (Channel Bandwidth: 20 MHz) _ 16QAM	
1860.0 MHz	
1880.0 MHz	
1900.0 MHz	

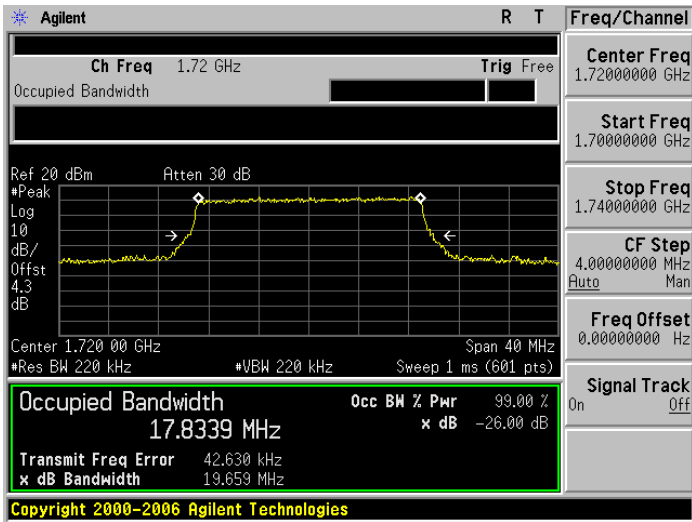
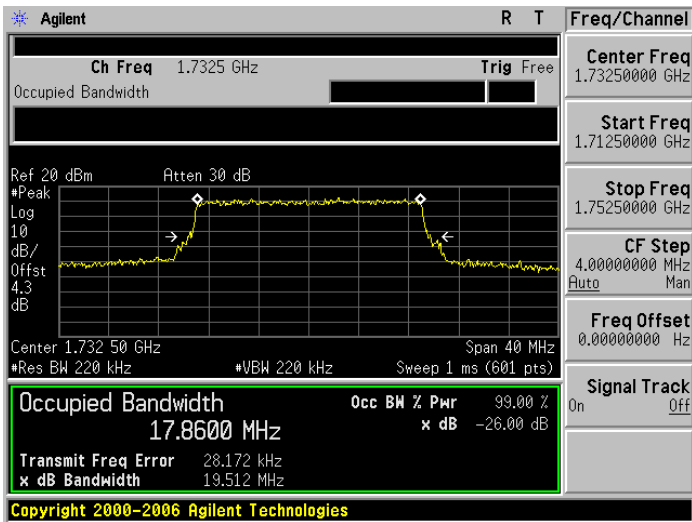
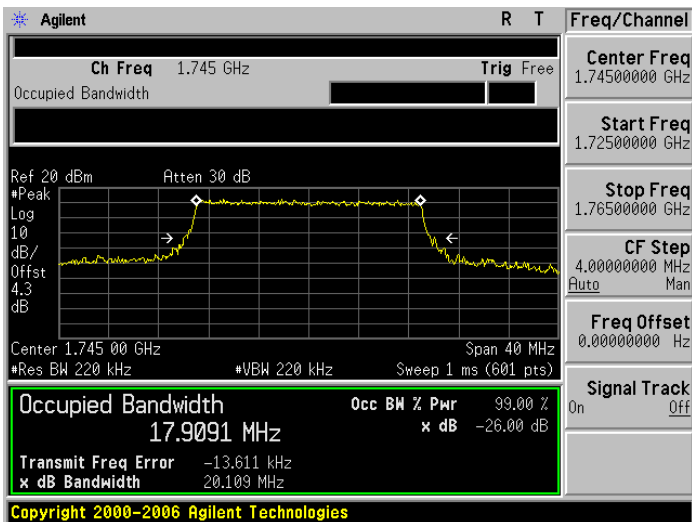
LTE Band 4 (Channel Bandwidth: 1.4 MHz) _ QPSK	
1710.7 MHz	<p>Agilent R T Freq/Channel</p> <p>Ch Freq 1.7107 GHz Trig Free</p> <p>Center Freq 1.71070000 GHz</p> <p>Start Freq 1.70920000 GHz</p> <p>Stop Freq 1.71220000 GHz</p> <p>CF Step 300.000000 kHz</p> <p>Freq Offset 0.00000000 Hz</p> <p>Signal Track On Off</p> <p>Ref 20 dBm Atten 30 dB</p> <p>#Peak Log 10 dB/ Offst 4.3 dB</p> <p>Center 1.710 700 GHz Span 3 MHz</p> <p>#Res BW 15 kHz #VBW 15 kHz Sweep 16.08 ms (601 pts)</p> <p>Occupied Bandwidth 1.0801 MHz</p> <p>Occ BW % Pwr 99.00 %</p> <p>x dB -26.00 dB</p> <p>Transmit Freq Error 442.005 Hz</p> <p>x dB Bandwidth 1.281 MHz</p> <p>Copyright 2000-2006 Agilent Technologies</p>
1732.5 MHz	<p>Agilent R T Freq/Channel</p> <p>Ch Freq 1.7325 GHz Trig Free</p> <p>Center Freq 1.73250000 GHz</p> <p>Start Freq 1.73100000 GHz</p> <p>Stop Freq 1.73400000 GHz</p> <p>CF Step 300.000000 kHz</p> <p>Freq Offset 0.00000000 Hz</p> <p>Signal Track On Off</p> <p>Ref 20 dBm Atten 30 dB</p> <p>#Peak Log 10 dB/ Offst 4.3 dB</p> <p>Center 1.732 500 GHz Span 3 MHz</p> <p>#Res BW 15 kHz #VBW 15 kHz Sweep 16.08 ms (601 pts)</p> <p>Occupied Bandwidth 1.0785 MHz</p> <p>Occ BW % Pwr 99.00 %</p> <p>x dB -26.00 dB</p> <p>Transmit Freq Error -1.188 kHz</p> <p>x dB Bandwidth 1.252 MHz</p> <p>Copyright 2000-2006 Agilent Technologies</p>
1754.3 MHz	<p>Agilent R T Freq/Channel</p> <p>Ch Freq 1.7543 GHz Trig Free</p> <p>Center Freq 1.75430000 GHz</p> <p>Start Freq 1.75280000 GHz</p> <p>Stop Freq 1.75580000 GHz</p> <p>CF Step 300.000000 kHz</p> <p>Freq Offset 0.00000000 Hz</p> <p>Signal Track On Off</p> <p>Ref 20 dBm Atten 30 dB</p> <p>#Peak Log 10 dB/ Offst 4.3 dB</p> <p>Center 1.754 300 GHz Span 3 MHz</p> <p>#Res BW 15 kHz #VBW 15 kHz Sweep 16.08 ms (601 pts)</p> <p>Occupied Bandwidth 1.0756 MHz</p> <p>Occ BW % Pwr 99.00 %</p> <p>x dB -26.00 dB</p> <p>Transmit Freq Error 2.192 kHz</p> <p>x dB Bandwidth 1.267 MHz</p> <p>Copyright 2000-2006 Agilent Technologies</p>

LTE Band 4 (Channel Bandwidth: 3 MHz) _ QPSK	
1711.5 MHz	 <p>Agilent R T Freq/Channel</p> <p>Ch Freq 1.7115 GHz Trig Free</p> <p>Center Freq 1.71150000 GHz</p> <p>Start Freq 1.70850000 GHz</p> <p>Stop Freq 1.71450000 GHz</p> <p>CF Step 600.000000 kHz</p> <p>Freq Offset 0.00000000 Hz</p> <p>Signal Track On Off</p> <p>Ref 20 dBm Atten 30 dB</p> <p>#Peak Log 10 dB/Offst 4.3 dB</p> <p>Center 1.711 500 GHz Span 6 MHz</p> <p>#Res BW 33 kHz #VBW 33 kHz Sweep 6.68 ms (601 pts)</p> <p>Occupied Bandwidth 2.6848 MHz</p> <p>Occ BW % Pwr 99.00 %</p> <p>x dB -26.00 dB</p> <p>Transmit Freq Error 4.000 kHz</p> <p>x dB Bandwidth 2.930 MHz</p> <p>Copyright 2000-2006 Agilent Technologies</p>
1732.5 MHz	 <p>Agilent R T Freq/Channel</p> <p>Ch Freq 1.7325 GHz Trig Free</p> <p>Center Freq 1.73250000 GHz</p> <p>Start Freq 1.72950000 GHz</p> <p>Stop Freq 1.73550000 GHz</p> <p>CF Step 600.000000 kHz</p> <p>Freq Offset 0.00000000 Hz</p> <p>Signal Track On Off</p> <p>Ref 20 dBm Atten 30 dB</p> <p>#Peak Log 10 dB/Offst 4.3 dB</p> <p>Center 1.732 500 GHz Span 6 MHz</p> <p>#Res BW 33 kHz #VBW 33 kHz Sweep 6.68 ms (601 pts)</p> <p>Occupied Bandwidth 2.6772 MHz</p> <p>Occ BW % Pwr 99.00 %</p> <p>x dB -26.00 dB</p> <p>Transmit Freq Error -55.009 Hz</p> <p>x dB Bandwidth 2.977 MHz</p> <p>Copyright 2000-2006 Agilent Technologies</p>
1753.5 MHz	 <p>Agilent R T Freq/Channel</p> <p>Ch Freq 1.7535 GHz Trig Free</p> <p>Center Freq 1.75350000 GHz</p> <p>Start Freq 1.75050000 GHz</p> <p>Stop Freq 1.75650000 GHz</p> <p>CF Step 600.000000 kHz</p> <p>Freq Offset 0.00000000 Hz</p> <p>Signal Track On Off</p> <p>Ref 20 dBm Atten 30 dB</p> <p>#Peak Log 10 dB/Offst 4.3 dB</p> <p>Center 1.753 500 GHz Span 6 MHz</p> <p>#Res BW 33 kHz #VBW 33 kHz Sweep 6.68 ms (601 pts)</p> <p>Occupied Bandwidth 2.6857 MHz</p> <p>Occ BW % Pwr 99.00 %</p> <p>x dB -26.00 dB</p> <p>Transmit Freq Error 4.013 kHz</p> <p>x dB Bandwidth 2.943 MHz</p> <p>Copyright 2000-2006 Agilent Technologies</p>

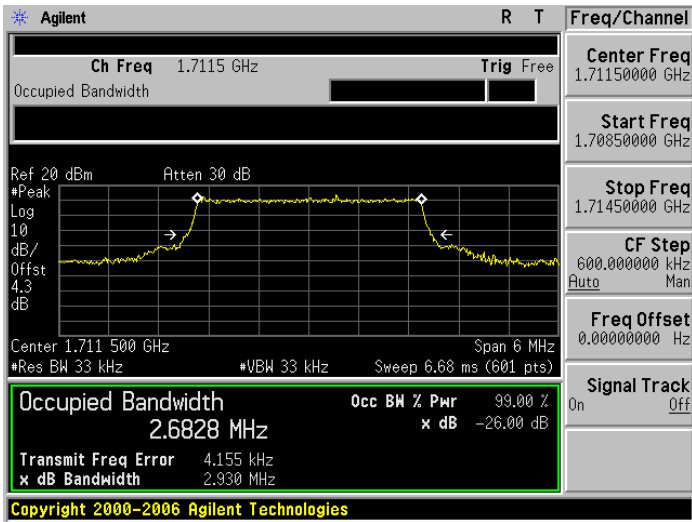
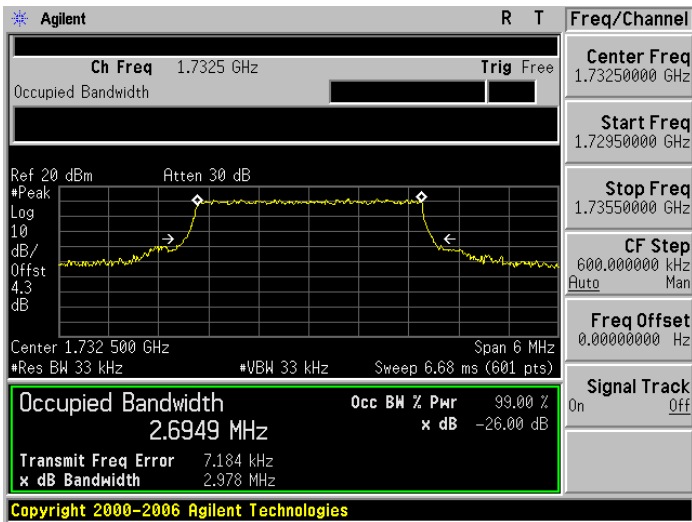
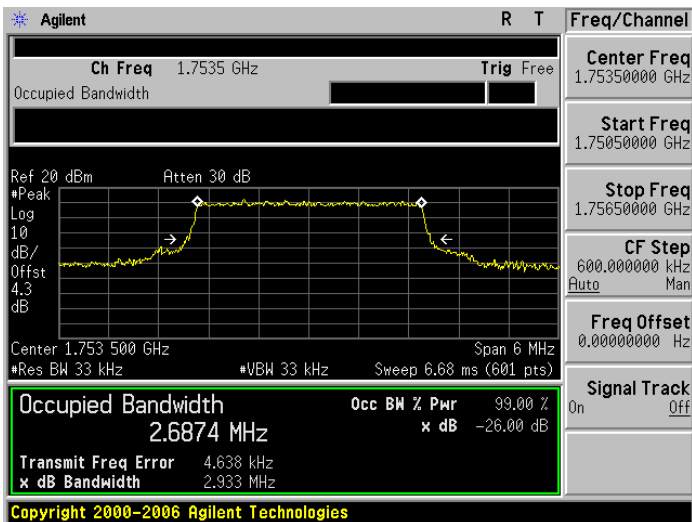
LTE Band 4 (Channel Bandwidth: 5 MHz) _ QPSK	
1712.5 MHz	 <p>Agilent R T Freq/Channel</p> <p>Ch Freq 1.7125 GHz Trig Free</p> <p>Center Freq 1.71250000 GHz</p> <p>Start Freq 1.70750000 GHz</p> <p>Stop Freq 1.71750000 GHz</p> <p>CF Step 1.00000000 MHz</p> <p>Freq Offset 0.00000000 Hz</p> <p>Signal Track On Off</p> <p>Ref 20 dBm Atten 30 dB</p> <p>#Peak Log 10 dB/ Offst 4.3 dB</p> <p>Center 1.712 50 GHz Span 10 MHz</p> <p>#Res BW 51 kHz #VBW 51 kHz Sweep 4.64 ms (601 pts)</p> <p>Occupied Bandwidth 4.4765 MHz</p> <p>Occ BW % Pwr 99.00 %</p> <p>x dB -26.00 dB</p> <p>Transmit Freq Error 770.326 Hz</p> <p>x dB Bandwidth 4.884 MHz</p> <p>Copyright 2000-2006 Agilent Technologies</p>
1732.5 MHz	 <p>Agilent R T Freq/Channel</p> <p>Ch Freq 1.7325 GHz Trig Free</p> <p>Center Freq 1.73250000 GHz</p> <p>Start Freq 1.72750000 GHz</p> <p>Stop Freq 1.73750000 GHz</p> <p>CF Step 1.00000000 MHz</p> <p>Freq Offset 0.00000000 Hz</p> <p>Signal Track On Off</p> <p>Ref 20 dBm Atten 30 dB</p> <p>#Peak Log 10 dB/ Offst 4.3 dB</p> <p>Center 1.732 50 GHz Span 10 MHz</p> <p>#Res BW 51 kHz #VBW 51 kHz Sweep 4.64 ms (601 pts)</p> <p>Occupied Bandwidth 4.4528 MHz</p> <p>Occ BW % Pwr 99.00 %</p> <p>x dB -26.00 dB</p> <p>Transmit Freq Error -3.182 kHz</p> <p>x dB Bandwidth 4.956 MHz</p> <p>Copyright 2000-2006 Agilent Technologies</p>
1752.5 MHz	 <p>Agilent R T Freq/Channel</p> <p>Ch Freq 1.7525 GHz Trig Free</p> <p>Center Freq 1.75250000 GHz</p> <p>Start Freq 1.74750000 GHz</p> <p>Stop Freq 1.75750000 GHz</p> <p>CF Step 1.00000000 MHz</p> <p>Freq Offset 0.00000000 Hz</p> <p>Signal Track On Off</p> <p>Ref 20 dBm Atten 30 dB</p> <p>#Peak Log 10 dB/ Offst 4.3 dB</p> <p>Center 1.752 50 GHz Span 10 MHz</p> <p>#Res BW 51 kHz #VBW 51 kHz Sweep 4.64 ms (601 pts)</p> <p>Occupied Bandwidth 4.4585 MHz</p> <p>Occ BW % Pwr 99.00 %</p> <p>x dB -26.00 dB</p> <p>Transmit Freq Error -1.065 kHz</p> <p>x dB Bandwidth 4.963 MHz</p> <p>Copyright 2000-2006 Agilent Technologies</p>

LTE Band 4 (Channel Bandwidth: 10 MHz) _ QPSK	
1715.0 MHz	<p>Agilent R T Freq/Channel</p> <p>Ch Freq 1.715 GHz Trig Free</p> <p>Center Freq 1.7150000 GHz</p> <p>Start Freq 1.7050000 GHz</p> <p>Stop Freq 1.7250000 GHz</p> <p>CF Step 2.0000000 MHz</p> <p>Freq Offset 0.0000000 Hz</p> <p>Signal Track On Off</p> <p>Ref 20 dBm Atten 30 dB</p> <p>#Peak Log 10 dB/Offst 4.3 dB</p> <p>Center 1.715 00 GHz Span 20 MHz</p> <p>#Res BW 110 kHz #VBW 110 kHz Sweep 2 ms (601 pts)</p> <p>Occupied Bandwidth 8.9653 MHz</p> <p>Occ BW % Pwr 99.00 %</p> <p>x dB -26.00 dB</p> <p>Transmit Freq Error 18.177 kHz</p> <p>x dB Bandwidth 9.904 MHz</p> <p>Copyright 2000-2006 Agilent Technologies</p>
1732.5 MHz	<p>Agilent R T Freq/Channel</p> <p>Ch Freq 1.7325 GHz Trig Free</p> <p>Center Freq 1.7325000 GHz</p> <p>Start Freq 1.7225000 GHz</p> <p>Stop Freq 1.7425000 GHz</p> <p>CF Step 2.0000000 MHz</p> <p>Freq Offset 0.0000000 Hz</p> <p>Signal Track On Off</p> <p>Ref 20 dBm Atten 30 dB</p> <p>#Peak Log 10 dB/Offst 4.3 dB</p> <p>Center 1.732 50 GHz Span 20 MHz</p> <p>#Res BW 110 kHz #VBW 110 kHz Sweep 2 ms (601 pts)</p> <p>Occupied Bandwidth 8.9582 MHz</p> <p>Occ BW % Pwr 99.00 %</p> <p>x dB -26.00 dB</p> <p>Transmit Freq Error 9.899 kHz</p> <p>x dB Bandwidth 9.698 MHz</p> <p>Copyright 2000-2006 Agilent Technologies</p>
1750.0 MHz	<p>Agilent R T Freq/Channel</p> <p>Ch Freq 1.75 GHz Trig Free</p> <p>Center Freq 1.7500000 GHz</p> <p>Start Freq 1.7400000 GHz</p> <p>Stop Freq 1.7600000 GHz</p> <p>CF Step 2.0000000 MHz</p> <p>Freq Offset 0.0000000 Hz</p> <p>Signal Track On Off</p> <p>Ref 20 dBm Atten 30 dB</p> <p>#Peak Log 10 dB/Offst 4.3 dB</p> <p>Center 1.750 00 GHz Span 20 MHz</p> <p>#Res BW 110 kHz #VBW 110 kHz Sweep 2 ms (601 pts)</p> <p>Occupied Bandwidth 8.9584 MHz</p> <p>Occ BW % Pwr 99.00 %</p> <p>x dB -26.00 dB</p> <p>Transmit Freq Error 5.704 kHz</p> <p>x dB Bandwidth 10.121 MHz</p> <p>Copyright 2000-2006 Agilent Technologies</p>

LTE Band 4 (Channel Bandwidth: 15 MHz) _ QPSK	
1717.5 MHz	<p>Agilent R T Freq/Channel</p> <p>Ch Freq 1.7175 GHz Trig Free</p> <p>Center Freq 1.71750000 GHz</p> <p>Start Freq 1.70250000 GHz</p> <p>Stop Freq 1.73250000 GHz</p> <p>CF Step 3.00000000 MHz</p> <p>Freq Offset 0.00000000 Hz</p> <p>Signal Track On Off</p> <p>Ref 20 dBm Atten 30 dB</p> <p>#Peak Log 10 dB/Offst 4.3 dB</p> <p>Center 1.717 50 GHz Span 30 MHz</p> <p>#Res BW 160 kHz #VBW 160 kHz Sweep 1.44 ms (601 pts)</p> <p>Occupied Bandwidth 13.4579 MHz</p> <p>Occ BW % Pwr 99.00 %</p> <p>x dB -26.00 dB</p> <p>Transmit Freq Error 41.775 kHz</p> <p>x dB Bandwidth 15.165 MHz</p> <p>Copyright 2000-2006 Agilent Technologies</p>
1732.5 MHz	<p>Agilent R T Freq/Channel</p> <p>Ch Freq 1.7325 GHz Trig Free</p> <p>Center Freq 1.73250000 GHz</p> <p>Start Freq 1.71750000 GHz</p> <p>Stop Freq 1.74750000 GHz</p> <p>CF Step 3.00000000 MHz</p> <p>Freq Offset 0.00000000 Hz</p> <p>Signal Track On Off</p> <p>Ref 20 dBm Atten 30 dB</p> <p>#Peak Log 10 dB/Offst 4.3 dB</p> <p>Center 1.732 50 GHz Span 30 MHz</p> <p>#Res BW 160 kHz #VBW 160 kHz Sweep 1.44 ms (601 pts)</p> <p>Occupied Bandwidth 13.4172 MHz</p> <p>Occ BW % Pwr 99.00 %</p> <p>x dB -26.00 dB</p> <p>Transmit Freq Error 8.152 kHz</p> <p>x dB Bandwidth 14.839 MHz</p> <p>Copyright 2000-2006 Agilent Technologies</p>
1747.5 MHz	<p>Agilent R T Freq/Channel</p> <p>Ch Freq 1.7475 GHz Trig Free</p> <p>Center Freq 1.74750000 GHz</p> <p>Start Freq 1.73250000 GHz</p> <p>Stop Freq 1.76250000 GHz</p> <p>CF Step 3.00000000 MHz</p> <p>Freq Offset 0.00000000 Hz</p> <p>Signal Track On Off</p> <p>Ref 20 dBm Atten 30 dB</p> <p>#Peak Log 10 dB/Offst 4.3 dB</p> <p>Center 1.747 50 GHz Span 30 MHz</p> <p>#Res BW 160 kHz #VBW 160 kHz Sweep 1.44 ms (601 pts)</p> <p>Occupied Bandwidth 13.4395 MHz</p> <p>Occ BW % Pwr 99.00 %</p> <p>x dB -26.00 dB</p> <p>Transmit Freq Error 4.261 kHz</p> <p>x dB Bandwidth 14.969 MHz</p> <p>Copyright 2000-2006 Agilent Technologies</p>

LTE Band 4 (Channel Bandwidth: 20 MHz) _ QPSK	
1720.0 MHz	 <p>Agilent R T Freq/Channel</p> <p>Ch Freq 1.72 GHz Trig Free</p> <p>Center Freq 1.7200000 GHz</p> <p>Start Freq 1.7000000 GHz</p> <p>Stop Freq 1.7400000 GHz</p> <p>CF Step 4.0000000 MHz</p> <p>Freq Offset 0.0000000 Hz</p> <p>Signal Track On</p> <p>Occupied Bandwidth 17.8339 MHz</p> <p>Occ BW % Pwr 99.00 %</p> <p>x dB -26.00 dB</p> <p>Transmit Freq Error 42.630 kHz</p> <p>x dB Bandwidth 19.659 MHz</p> <p>Copyright 2000-2006 Agilent Technologies</p>
1732.5 MHz	 <p>Agilent R T Freq/Channel</p> <p>Ch Freq 1.7325 GHz Trig Free</p> <p>Center Freq 1.7325000 GHz</p> <p>Start Freq 1.7125000 GHz</p> <p>Stop Freq 1.7525000 GHz</p> <p>CF Step 4.0000000 MHz</p> <p>Freq Offset 0.0000000 Hz</p> <p>Signal Track Off</p> <p>Occupied Bandwidth 17.8600 MHz</p> <p>Occ BW % Pwr 99.00 %</p> <p>x dB -26.00 dB</p> <p>Transmit Freq Error 28.172 kHz</p> <p>x dB Bandwidth 19.512 MHz</p> <p>Copyright 2000-2006 Agilent Technologies</p>
1745.0 MHz	 <p>Agilent R T Freq/Channel</p> <p>Ch Freq 1.745 GHz Trig Free</p> <p>Center Freq 1.7450000 GHz</p> <p>Start Freq 1.7250000 GHz</p> <p>Stop Freq 1.7650000 GHz</p> <p>CF Step 4.0000000 MHz</p> <p>Freq Offset 0.0000000 Hz</p> <p>Signal Track Off</p> <p>Occupied Bandwidth 17.9091 MHz</p> <p>Occ BW % Pwr 99.00 %</p> <p>x dB -26.00 dB</p> <p>Transmit Freq Error -13.611 kHz</p> <p>x dB Bandwidth 20.109 MHz</p> <p>Copyright 2000-2006 Agilent Technologies</p>

LTE Band 4 (Channel Bandwidth: 1.4 MHz) _ 16QAM	
1710.7 MHz	<p>Agilent R T Freq/Channel</p> <p>Ch Freq 1.7107 GHz Trig Free</p> <p>Center Freq 1.71070000 GHz</p> <p>Start Freq 1.70920000 GHz</p> <p>Stop Freq 1.71220000 GHz</p> <p>CF Step 300.000000 kHz</p> <p>Freq Offset 0.00000000 Hz</p> <p>Signal Track On Off</p> <p>Ref 20 dBm Atten 30 dB</p> <p>#Peak Log 10 dB/Offst 4.3 dB</p> <p>Center 1.710 700 GHz Span 3 MHz</p> <p>#Res BW 15 kHz #VBW 15 kHz Sweep 16.08 ms (601 pts)</p> <p>Occupied Bandwidth 1.0765 MHz</p> <p>Occ BW % Pwr 99.00 %</p> <p>x dB -26.00 dB</p> <p>Transmit Freq Error 2.250 kHz</p> <p>x dB Bandwidth 1.281 MHz</p> <p>Copyright 2000-2006 Agilent Technologies</p>
1732.5 MHz	<p>Agilent R T Freq/Channel</p> <p>Ch Freq 1.7325 GHz Trig Free</p> <p>Center Freq 1.73250000 GHz</p> <p>Start Freq 1.73100000 GHz</p> <p>Stop Freq 1.73400000 GHz</p> <p>CF Step 300.000000 kHz</p> <p>Freq Offset 0.00000000 Hz</p> <p>Signal Track On Off</p> <p>Ref 20 dBm Atten 30 dB</p> <p>#Peak Log 10 dB/Offst 4.3 dB</p> <p>Center 1.732 500 GHz Span 3 MHz</p> <p>#Res BW 15 kHz #VBW 15 kHz Sweep 16.08 ms (601 pts)</p> <p>Occupied Bandwidth 1.0786 MHz</p> <p>Occ BW % Pwr 99.00 %</p> <p>x dB -26.00 dB</p> <p>Transmit Freq Error -757.650 Hz</p> <p>x dB Bandwidth 1.253 MHz</p> <p>Copyright 2000-2006 Agilent Technologies</p>
1754.3 MHz	<p>Agilent R T Freq/Channel</p> <p>Ch Freq 1.7543 GHz Trig Free</p> <p>Center Freq 1.75430000 GHz</p> <p>Start Freq 1.75280000 GHz</p> <p>Stop Freq 1.75580000 GHz</p> <p>CF Step 300.000000 kHz</p> <p>Freq Offset 0.00000000 Hz</p> <p>Signal Track On Off</p> <p>Ref 20 dBm Atten 30 dB</p> <p>#Peak Log 10 dB/Offst 4.3 dB</p> <p>Center 1.754 300 GHz Span 3 MHz</p> <p>#Res BW 15 kHz #VBW 15 kHz Sweep 16.08 ms (601 pts)</p> <p>Occupied Bandwidth 1.0756 MHz</p> <p>Occ BW % Pwr 99.00 %</p> <p>x dB -26.00 dB</p> <p>Transmit Freq Error 2.070 kHz</p> <p>x dB Bandwidth 1.267 MHz</p> <p>Copyright 2000-2006 Agilent Technologies</p>

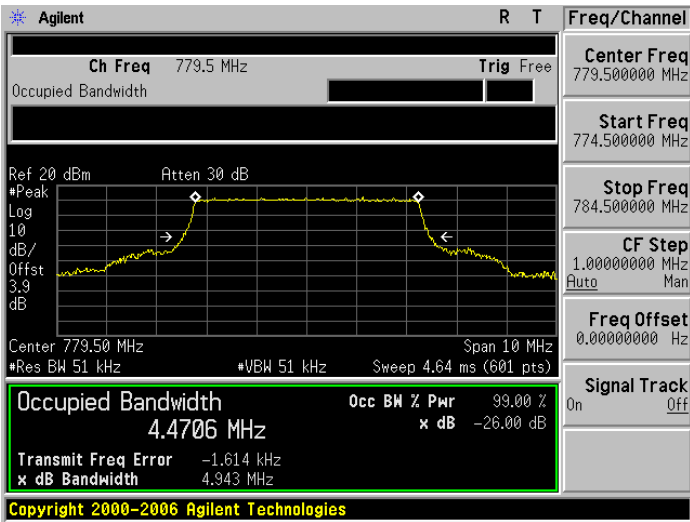
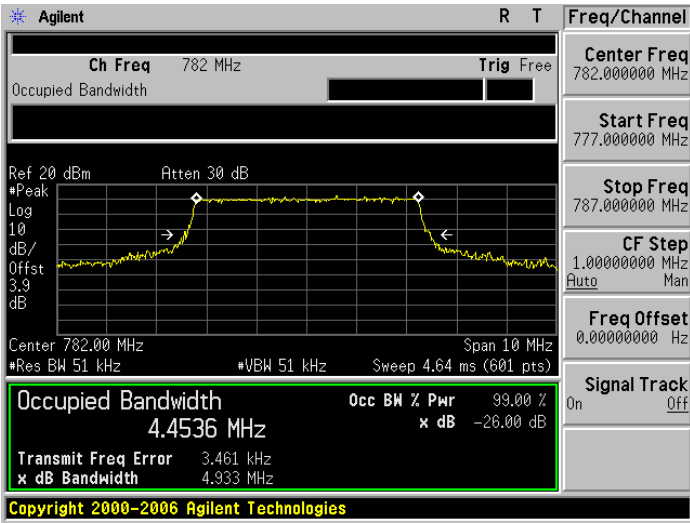
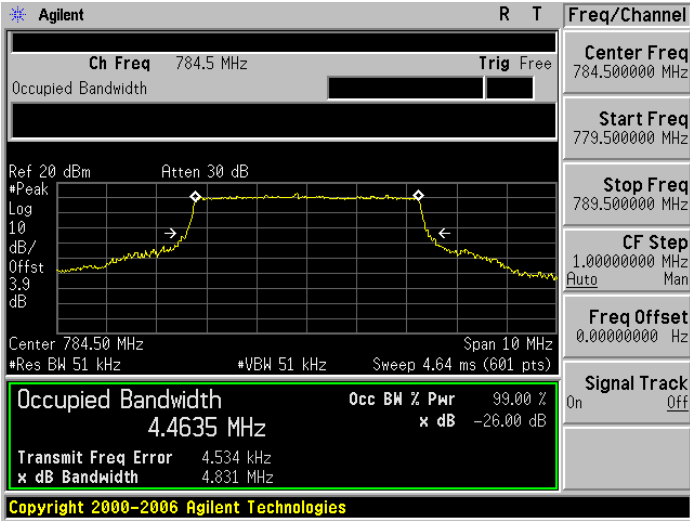
LTE Band 4 (Channel Bandwidth: 3 MHz) _ 16QAM	
1711.5 MHz	 <p>Agilent R T Freq/Channel</p> <p>Ch Freq 1.7115 GHz Trig Free</p> <p>Center Freq 1.71150000 GHz</p> <p>Start Freq 1.70850000 GHz</p> <p>Stop Freq 1.71450000 GHz</p> <p>CF Step 600.000000 kHz</p> <p>Freq Offset 0.00000000 Hz</p> <p>Signal Track On Off</p> <p>Ref 20 dBm Atten 30 dB</p> <p>#Peak Log 10 dB/Offst 4.3 dB</p> <p>Center 1.711 500 GHz Span 6 MHz</p> <p>#Res BW 33 kHz #VBW 33 kHz Sweep 6.68 ms (601 pts)</p> <p>Occupied Bandwidth 2.6828 MHz</p> <p>Occ BW % Pwr 99.00 %</p> <p>x dB -26.00 dB</p> <p>Transmit Freq Error 4.155 kHz</p> <p>x dB Bandwidth 2.930 MHz</p> <p>Copyright 2000-2006 Agilent Technologies</p>
1732.5 MHz	 <p>Agilent R T Freq/Channel</p> <p>Ch Freq 1.7325 GHz Trig Free</p> <p>Center Freq 1.73250000 GHz</p> <p>Start Freq 1.72950000 GHz</p> <p>Stop Freq 1.73550000 GHz</p> <p>CF Step 600.000000 kHz</p> <p>Freq Offset 0.00000000 Hz</p> <p>Signal Track On Off</p> <p>Ref 20 dBm Atten 30 dB</p> <p>#Peak Log 10 dB/Offst 4.3 dB</p> <p>Center 1.732 500 GHz Span 6 MHz</p> <p>#Res BW 33 kHz #VBW 33 kHz Sweep 6.68 ms (601 pts)</p> <p>Occupied Bandwidth 2.6949 MHz</p> <p>Occ BW % Pwr 99.00 %</p> <p>x dB -26.00 dB</p> <p>Transmit Freq Error 7.184 kHz</p> <p>x dB Bandwidth 2.978 MHz</p> <p>Copyright 2000-2006 Agilent Technologies</p>
1753.5 MHz	 <p>Agilent R T Freq/Channel</p> <p>Ch Freq 1.7535 GHz Trig Free</p> <p>Center Freq 1.75350000 GHz</p> <p>Start Freq 1.75050000 GHz</p> <p>Stop Freq 1.75650000 GHz</p> <p>CF Step 600.000000 kHz</p> <p>Freq Offset 0.00000000 Hz</p> <p>Signal Track On Off</p> <p>Ref 20 dBm Atten 30 dB</p> <p>#Peak Log 10 dB/Offst 4.3 dB</p> <p>Center 1.753 500 GHz Span 6 MHz</p> <p>#Res BW 33 kHz #VBW 33 kHz Sweep 6.68 ms (601 pts)</p> <p>Occupied Bandwidth 2.6874 MHz</p> <p>Occ BW % Pwr 99.00 %</p> <p>x dB -26.00 dB</p> <p>Transmit Freq Error 4.638 kHz</p> <p>x dB Bandwidth 2.933 MHz</p> <p>Copyright 2000-2006 Agilent Technologies</p>

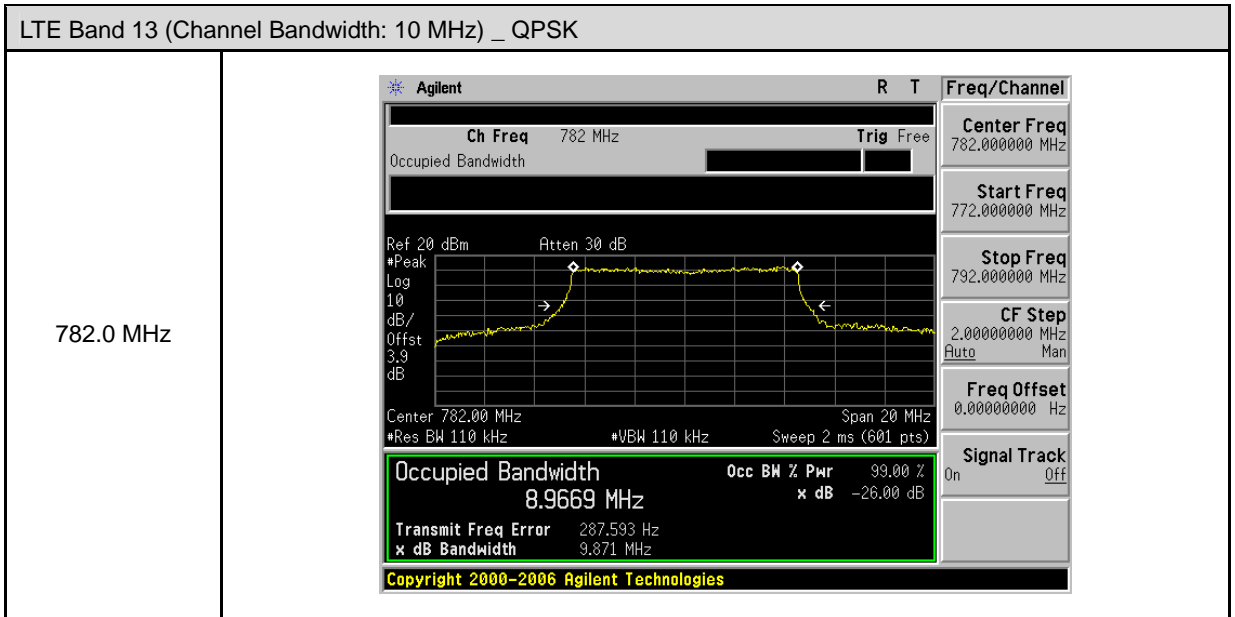
LTE Band 4 (Channel Bandwidth: 5 MHz) _ 16QAM	
1712.5 MHz	<p>Agilent R T Freq/Channel</p> <p>Ch Freq 1.7125 GHz Trig Free</p> <p>Center Freq 1.71250000 GHz</p> <p>Start Freq 1.70750000 GHz</p> <p>Stop Freq 1.71750000 GHz</p> <p>CF Step 1.00000000 MHz</p> <p>Freq Offset 0.00000000 Hz</p> <p>Signal Track On Off</p> <p>Ref 20 dBm Atten 30 dB</p> <p>#Peak Log 10 dB/Offst 4.3 dB</p> <p>Center 1.712 50 GHz Span 10 MHz</p> <p>#Res BW 51 kHz #VBW 51 kHz Sweep 4.64 ms (601 pts)</p> <p>Occupied Bandwidth 4.4760 MHz</p> <p>Occ BW % Pwr 99.00 %</p> <p>x dB -26.00 dB</p> <p>Transmit Freq Error 1.972 kHz</p> <p>x dB Bandwidth 4.881 MHz</p> <p>Copyright 2000-2006 Agilent Technologies</p>
1732.5 MHz	<p>Agilent R T Freq/Channel</p> <p>Ch Freq 1.7325 GHz Trig Free</p> <p>Center Freq 1.73250000 GHz</p> <p>Start Freq 1.72750000 GHz</p> <p>Stop Freq 1.73750000 GHz</p> <p>CF Step 1.00000000 MHz</p> <p>Freq Offset 0.00000000 Hz</p> <p>Signal Track On Off</p> <p>Ref 20 dBm Atten 30 dB</p> <p>#Peak Log 10 dB/Offst 4.3 dB</p> <p>Center 1.732 50 GHz Span 10 MHz</p> <p>#Res BW 51 kHz #VBW 51 kHz Sweep 4.64 ms (601 pts)</p> <p>Occupied Bandwidth 4.4593 MHz</p> <p>Occ BW % Pwr 99.00 %</p> <p>x dB -26.00 dB</p> <p>Transmit Freq Error 2.244 kHz</p> <p>x dB Bandwidth 4.366 MHz</p> <p>Copyright 2000-2006 Agilent Technologies</p>
1752.5 MHz	<p>Agilent R T Freq/Channel</p> <p>Ch Freq 1.7525 GHz Trig Free</p> <p>Center Freq 1.75250000 GHz</p> <p>Start Freq 1.74750000 GHz</p> <p>Stop Freq 1.75750000 GHz</p> <p>CF Step 1.00000000 MHz</p> <p>Freq Offset 0.00000000 Hz</p> <p>Signal Track On Off</p> <p>Ref 20 dBm Atten 30 dB</p> <p>#Peak Log 10 dB/Offst 4.3 dB</p> <p>Center 1.752 50 GHz Span 10 MHz</p> <p>#Res BW 51 kHz #VBW 51 kHz Sweep 4.64 ms (601 pts)</p> <p>Occupied Bandwidth 4.4519 MHz</p> <p>Occ BW % Pwr 99.00 %</p> <p>x dB -26.00 dB</p> <p>Transmit Freq Error -755.490 Hz</p> <p>x dB Bandwidth 4.952 MHz</p> <p>Copyright 2000-2006 Agilent Technologies</p>

LTE Band 4 (Channel Bandwidth: 10 MHz) _ 16QAM	
1715.0 MHz	<p>Agilent R T Freq/Channel</p> <p>Ch Freq 1.715 GHz Trig Free</p> <p>Center Freq 1.71500000 GHz</p> <p>Start Freq 1.70500000 GHz</p> <p>Stop Freq 1.72500000 GHz</p> <p>CF Step 2.00000000 MHz</p> <p>Freq Offset 0.00000000 Hz</p> <p>Signal Track On Off</p> <p>Ref 20 dBm Atten 30 dB</p> <p>#Peak Log 10 dB/Offst 4.3 dB</p> <p>Center 1.715 00 GHz Span 20 MHz</p> <p>#Res BW 110 kHz #VBW 110 kHz Sweep 2 ms (601 pts)</p> <p>Occupied Bandwidth 8.9705 MHz</p> <p>Occ BW % Pwr 99.00 %</p> <p>x dB -26.00 dB</p> <p>Transmit Freq Error 17.982 kHz</p> <p>x dB Bandwidth 9.933 MHz</p> <p>Copyright 2000-2006 Agilent Technologies</p>
1732.5 MHz	<p>Agilent R T Freq/Channel</p> <p>Ch Freq 1.7325 GHz Trig Free</p> <p>Center Freq 1.73250000 GHz</p> <p>Start Freq 1.72250000 GHz</p> <p>Stop Freq 1.74250000 GHz</p> <p>CF Step 2.00000000 MHz</p> <p>Freq Offset 0.00000000 Hz</p> <p>Signal Track On Off</p> <p>Ref 20 dBm Atten 30 dB</p> <p>#Peak Log 10 dB/Offst 4.3 dB</p> <p>Center 1.732 50 GHz Span 20 MHz</p> <p>#Res BW 110 kHz #VBW 110 kHz Sweep 2 ms (601 pts)</p> <p>Occupied Bandwidth 8.9560 MHz</p> <p>Occ BW % Pwr 99.00 %</p> <p>x dB -26.00 dB</p> <p>Transmit Freq Error 6.555 kHz</p> <p>x dB Bandwidth 9.821 MHz</p> <p>Copyright 2000-2006 Agilent Technologies</p>
1750.0 MHz	<p>Agilent R T Freq/Channel</p> <p>Ch Freq 1.75 GHz Trig Free</p> <p>Center Freq 1.75000000 GHz</p> <p>Start Freq 1.74000000 GHz</p> <p>Stop Freq 1.76000000 GHz</p> <p>CF Step 2.00000000 MHz</p> <p>Freq Offset 0.00000000 Hz</p> <p>Signal Track On Off</p> <p>Ref 20 dBm Atten 30 dB</p> <p>#Peak Log 10 dB/Offst 4.3 dB</p> <p>Center 1.750 00 GHz Span 20 MHz</p> <p>#Res BW 110 kHz #VBW 110 kHz Sweep 2 ms (601 pts)</p> <p>Occupied Bandwidth 8.9630 MHz</p> <p>Occ BW % Pwr 99.00 %</p> <p>x dB -26.00 dB</p> <p>Transmit Freq Error 7.451 kHz</p> <p>x dB Bandwidth 10.135 MHz</p> <p>Copyright 2000-2006 Agilent Technologies</p>

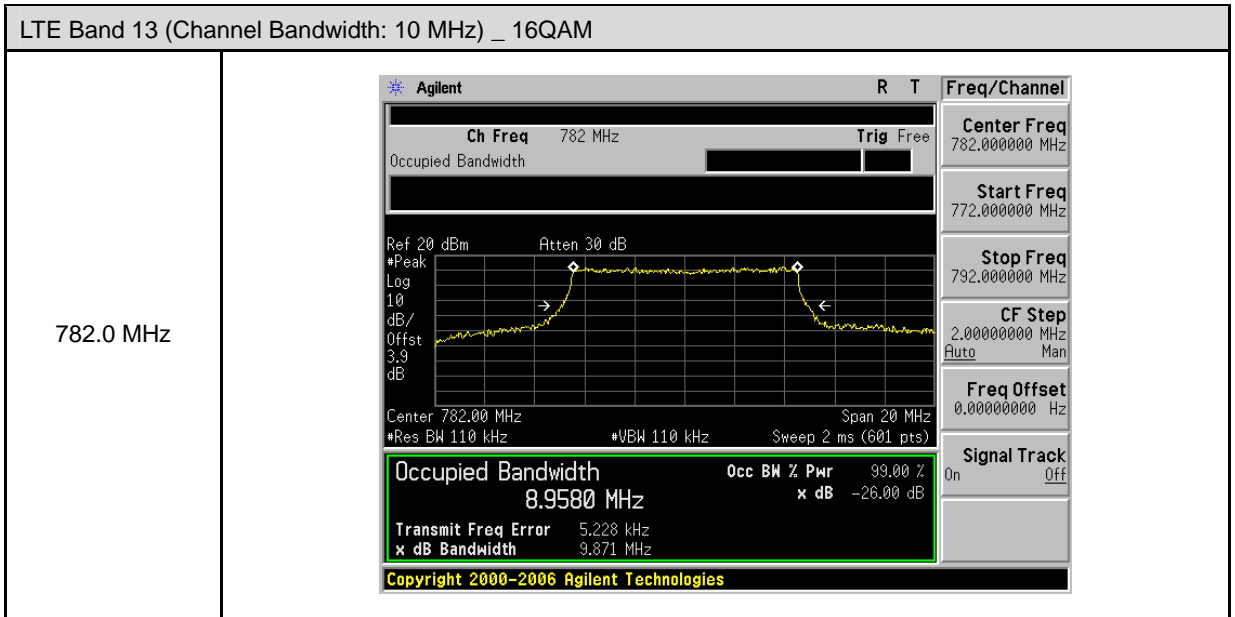
LTE Band 4 (Channel Bandwidth: 15 MHz) _ 16QAM	
1717.5 MHz	<p>Agilent R T Freq/Channel</p> <p>Ch Freq 1.7175 GHz Trig Free</p> <p>Center Freq 1.71750000 GHz</p> <p>Start Freq 1.70250000 GHz</p> <p>Stop Freq 1.73250000 GHz</p> <p>CF Step 3.00000000 MHz</p> <p>Freq Offset 0.00000000 Hz</p> <p>Signal Track On Off</p> <p>Ref 20 dBm Atten 30 dB</p> <p>#Peak Log 10 dB/Offst 4.3 dB</p> <p>Center 1.717 50 GHz Span 30 MHz</p> <p>#Res BW 160 kHz #VBW 160 kHz Sweep 1.44 ms (601 pts)</p> <p>Occupied Bandwidth 13.4579 MHz</p> <p>Occ BW % Pwr 99.00 %</p> <p>x dB -26.00 dB</p> <p>Transmit Freq Error 41.115 kHz</p> <p>x dB Bandwidth 15.121 MHz</p> <p>Copyright 2000-2006 Agilent Technologies</p>
1732.5 MHz	<p>Agilent R T Freq/Channel</p> <p>Ch Freq 1.7325 GHz Trig Free</p> <p>Center Freq 1.73250000 GHz</p> <p>Start Freq 1.71750000 GHz</p> <p>Stop Freq 1.74750000 GHz</p> <p>CF Step 3.00000000 MHz</p> <p>Freq Offset 0.00000000 Hz</p> <p>Signal Track On Off</p> <p>Ref 20 dBm Atten 30 dB</p> <p>#Peak Log 10 dB/Offst 4.3 dB</p> <p>Center 1.732 50 GHz Span 30 MHz</p> <p>#Res BW 160 kHz #VBW 160 kHz Sweep 1.44 ms (601 pts)</p> <p>Occupied Bandwidth 13.4108 MHz</p> <p>Occ BW % Pwr 99.00 %</p> <p>x dB -26.00 dB</p> <p>Transmit Freq Error 12.072 kHz</p> <p>x dB Bandwidth 14.952 MHz</p> <p>Copyright 2000-2006 Agilent Technologies</p>
1747.5 MHz	<p>Agilent R T Freq/Channel</p> <p>Ch Freq 1.7475 GHz Trig Free</p> <p>Center Freq 1.74750000 GHz</p> <p>Start Freq 1.73250000 GHz</p> <p>Stop Freq 1.76250000 GHz</p> <p>CF Step 3.00000000 MHz</p> <p>Freq Offset 0.00000000 Hz</p> <p>Signal Track On Off</p> <p>Ref 20 dBm Atten 30 dB</p> <p>#Peak Log 10 dB/Offst 4.3 dB</p> <p>Center 1.747 50 GHz Span 30 MHz</p> <p>#Res BW 160 kHz #VBW 160 kHz Sweep 1.44 ms (601 pts)</p> <p>Occupied Bandwidth 13.4502 MHz</p> <p>Occ BW % Pwr 99.00 %</p> <p>x dB -26.00 dB</p> <p>Transmit Freq Error 3.022 kHz</p> <p>x dB Bandwidth 14.881 MHz</p> <p>Copyright 2000-2006 Agilent Technologies</p>

LTE Band 4 (Channel Bandwidth: 20 MHz) _ 16QAM	
1720.0 MHz	<p>Agilent R T Freq/Channel</p> <p>Ch Freq 1.72 GHz Trig Free</p> <p>Center Freq 1.7200000 GHz</p> <p>Start Freq 1.7000000 GHz</p> <p>Stop Freq 1.7400000 GHz</p> <p>CF Step 4.0000000 MHz</p> <p>Freq Offset 0.0000000 Hz</p> <p>Signal Track On</p> <p>Occupied Bandwidth 17.8316 MHz</p> <p>Occ BW % Pwr 99.00 %</p> <p>x dB -26.00 dB</p> <p>Transmit Freq Error 43.480 kHz</p> <p>x dB Bandwidth 19.427 MHz</p> <p>Copyright 2000-2006 Agilent Technologies</p>
1732.5 MHz	<p>Agilent R T Freq/Channel</p> <p>Ch Freq 1.7325 GHz Trig Free</p> <p>Center Freq 1.7325000 GHz</p> <p>Start Freq 1.7125000 GHz</p> <p>Stop Freq 1.7525000 GHz</p> <p>CF Step 4.0000000 MHz</p> <p>Freq Offset 0.0000000 Hz</p> <p>Signal Track On</p> <p>Occupied Bandwidth 17.8521 MHz</p> <p>Occ BW % Pwr 99.00 %</p> <p>x dB -26.00 dB</p> <p>Transmit Freq Error 41.974 kHz</p> <p>x dB Bandwidth 19.416 MHz</p> <p>Copyright 2000-2006 Agilent Technologies</p>
1745.0 MHz	<p>Agilent R T Freq/Channel</p> <p>Ch Freq 1.745 GHz Trig Free</p> <p>Center Freq 1.7450000 GHz</p> <p>Start Freq 1.7250000 GHz</p> <p>Stop Freq 1.7650000 GHz</p> <p>CF Step 4.0000000 MHz</p> <p>Freq Offset 0.0000000 Hz</p> <p>Signal Track On</p> <p>Occupied Bandwidth 17.8659 MHz</p> <p>Occ BW % Pwr 99.00 %</p> <p>x dB -26.00 dB</p> <p>Transmit Freq Error 1.268 kHz</p> <p>x dB Bandwidth 20.034 MHz</p> <p>Copyright 2000-2006 Agilent Technologies</p>

LTE Band 13 (Channel Bandwidth: 5 MHz) _ QPSK	
779.5 MHz	 <p>Agilent R T Freq/Channel</p> <p>Ch Freq 779.5 MHz Trig Free</p> <p>Center Freq 779.500000 MHz</p> <p>Start Freq 774.500000 MHz</p> <p>Stop Freq 784.500000 MHz</p> <p>CF Step 1.00000000 MHz</p> <p>Freq Offset 0.00000000 Hz</p> <p>Signal Track On Off</p> <p>Ref 20 dBm Atten 30 dB</p> <p>#Peak Log 10 dB/Offst 3.9 dB</p> <p>Center 779.50 MHz Span 10 MHz</p> <p>#Res BW 51 kHz #VBW 51 kHz Sweep 4.64 ms (601 pts)</p> <p>Occupied Bandwidth 4.4706 MHz</p> <p>Occ BW % Pwr 99.00 %</p> <p>x dB -26.00 dB</p> <p>Transmit Freq Error -1.614 kHz</p> <p>x dB Bandwidth 4.943 MHz</p> <p>Copyright 2000-2006 Agilent Technologies</p>
782.0 MHz	 <p>Agilent R T Freq/Channel</p> <p>Ch Freq 782 MHz Trig Free</p> <p>Center Freq 782.000000 MHz</p> <p>Start Freq 777.000000 MHz</p> <p>Stop Freq 787.000000 MHz</p> <p>CF Step 1.00000000 MHz</p> <p>Freq Offset 0.00000000 Hz</p> <p>Signal Track On Off</p> <p>Ref 20 dBm Atten 30 dB</p> <p>#Peak Log 10 dB/Offst 3.9 dB</p> <p>Center 782.00 MHz Span 10 MHz</p> <p>#Res BW 51 kHz #VBW 51 kHz Sweep 4.64 ms (601 pts)</p> <p>Occupied Bandwidth 4.4536 MHz</p> <p>Occ BW % Pwr 99.00 %</p> <p>x dB -26.00 dB</p> <p>Transmit Freq Error 3.461 kHz</p> <p>x dB Bandwidth 4.933 MHz</p> <p>Copyright 2000-2006 Agilent Technologies</p>
784.5 MHz	 <p>Agilent R T Freq/Channel</p> <p>Ch Freq 784.5 MHz Trig Free</p> <p>Center Freq 784.500000 MHz</p> <p>Start Freq 779.500000 MHz</p> <p>Stop Freq 789.500000 MHz</p> <p>CF Step 1.00000000 MHz</p> <p>Freq Offset 0.00000000 Hz</p> <p>Signal Track On Off</p> <p>Ref 20 dBm Atten 30 dB</p> <p>#Peak Log 10 dB/Offst 3.9 dB</p> <p>Center 784.50 MHz Span 10 MHz</p> <p>#Res BW 51 kHz #VBW 51 kHz Sweep 4.64 ms (601 pts)</p> <p>Occupied Bandwidth 4.4635 MHz</p> <p>Occ BW % Pwr 99.00 %</p> <p>x dB -26.00 dB</p> <p>Transmit Freq Error 4.534 kHz</p> <p>x dB Bandwidth 4.831 MHz</p> <p>Copyright 2000-2006 Agilent Technologies</p>



LTE Band 13 (Channel Bandwidth: 5 MHz) _ 16QAM	
779.5 MHz	<p>Agilent R T Freq/Channel</p> <p>Ch Freq 779.5 MHz Trig Free</p> <p>Center Freq 779.500000 MHz</p> <p>Start Freq 774.500000 MHz</p> <p>Stop Freq 784.500000 MHz</p> <p>CF Step 1.00000000 MHz</p> <p>Freq Offset 0.00000000 Hz</p> <p>Signal Track On Off</p> <p>Ref 20 dBm Atten 30 dB</p> <p>#Peak Log 10 dB/ Offst 3.9 dB</p> <p>Center 779.50 MHz Span 10 MHz</p> <p>#Res BW 51 kHz #VBW 51 kHz Sweep 4.64 ms (601 pts)</p> <p>Occupied Bandwidth 4.4701 MHz</p> <p>Occ BW % Pwr 99.00 %</p> <p>x dB -26.00 dB</p> <p>Transmit Freq Error -1.081 kHz</p> <p>x dB Bandwidth 4.945 MHz</p> <p>Copyright 2000-2006 Agilent Technologies</p>
782.0 MHz	<p>Agilent R T Freq/Channel</p> <p>Ch Freq 782 MHz Trig Free</p> <p>Center Freq 782.000000 MHz</p> <p>Start Freq 777.000000 MHz</p> <p>Stop Freq 787.000000 MHz</p> <p>CF Step 1.00000000 MHz</p> <p>Freq Offset 0.00000000 Hz</p> <p>Signal Track On Off</p> <p>Ref 20 dBm Atten 30 dB</p> <p>#Peak Log 10 dB/ Offst 3.9 dB</p> <p>Center 782.00 MHz Span 10 MHz</p> <p>#Res BW 51 kHz #VBW 51 kHz Sweep 4.64 ms (601 pts)</p> <p>Occupied Bandwidth 4.4608 MHz</p> <p>Occ BW % Pwr 99.00 %</p> <p>x dB -26.00 dB</p> <p>Transmit Freq Error 497.995 Hz</p> <p>x dB Bandwidth 4.947 MHz</p> <p>Copyright 2000-2006 Agilent Technologies</p>
784.5 MHz	<p>Agilent R T Freq/Channel</p> <p>Ch Freq 784.5 MHz Trig Free</p> <p>Center Freq 784.500000 MHz</p> <p>Start Freq 779.500000 MHz</p> <p>Stop Freq 789.500000 MHz</p> <p>CF Step 1.00000000 MHz</p> <p>Freq Offset 0.00000000 Hz</p> <p>Signal Track On Off</p> <p>Ref 20 dBm Atten 30 dB</p> <p>#Peak Log 10 dB/ Offst 3.9 dB</p> <p>Center 784.50 MHz Span 10 MHz</p> <p>#Res BW 51 kHz #VBW 51 kHz Sweep 4.64 ms (601 pts)</p> <p>Occupied Bandwidth 4.4461 MHz</p> <p>Occ BW % Pwr 99.00 %</p> <p>x dB -26.00 dB</p> <p>Transmit Freq Error 3.458 kHz</p> <p>x dB Bandwidth 4.836 MHz</p> <p>Copyright 2000-2006 Agilent Technologies</p>



6 Peak to Average Ratio Test

6.1. Limit

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

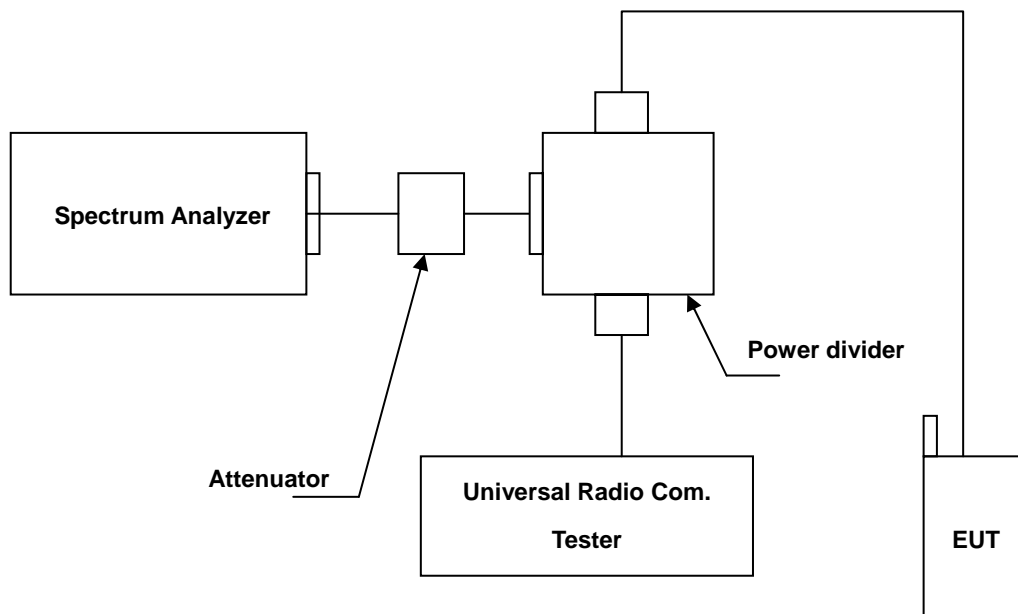
6.2. Test Instruments

Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Remark
Spectrum Analyzer	Agilent	E4445A	MY46181986	05/14/2015	(1)
Wideband Radio Communication Test	R & S	CMW500	103168	11/05/2014	(1)
Attenuator	RADIALL	R41572000	0603033073	N.C.R.	-----
Power divider	Agilent	87302C	3239A00760	N.C.R.	-----
Test Site	ATL	TE05	TE05	N.C.R.	-----

Remark: ⁽¹⁾ Calibration period 1 year. ⁽²⁾ Calibration period 2 years.

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

6.3. Setup



6.4. Test Procedure

The measurement is made according to FCC rules:

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

6.5. Uncertainty

The measurement uncertainty is defined as for Conducted Power measurement is 1.2 dB.

6.6. Test Result

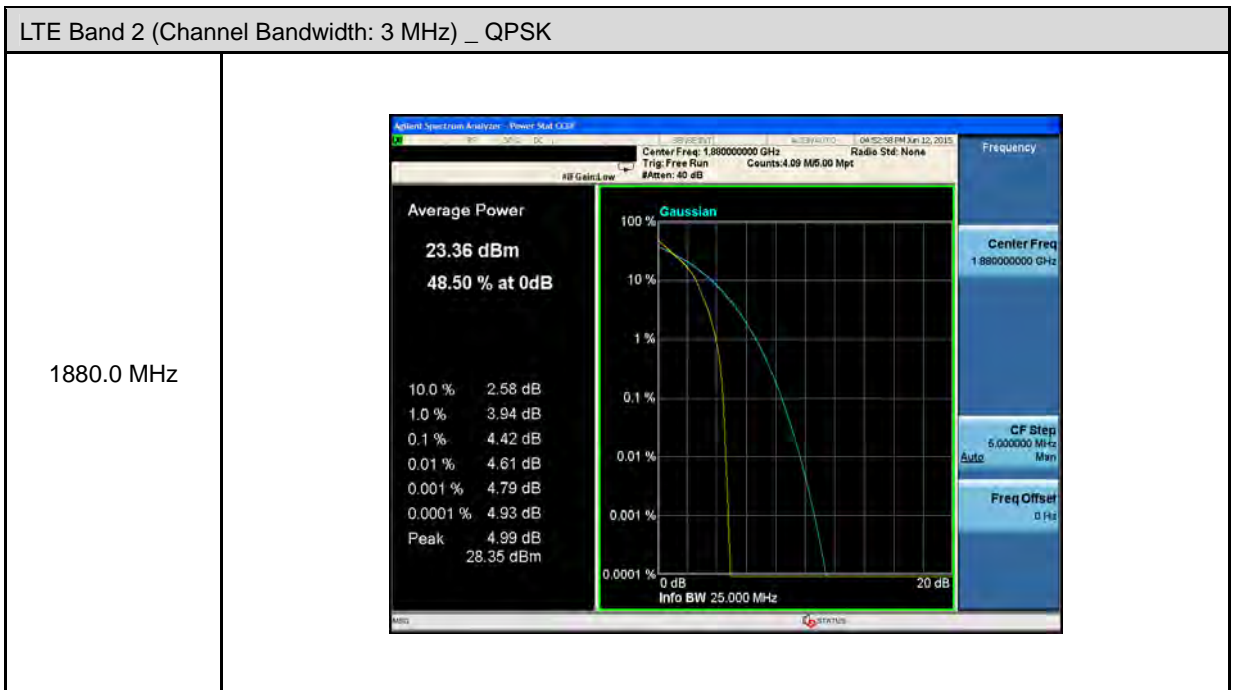
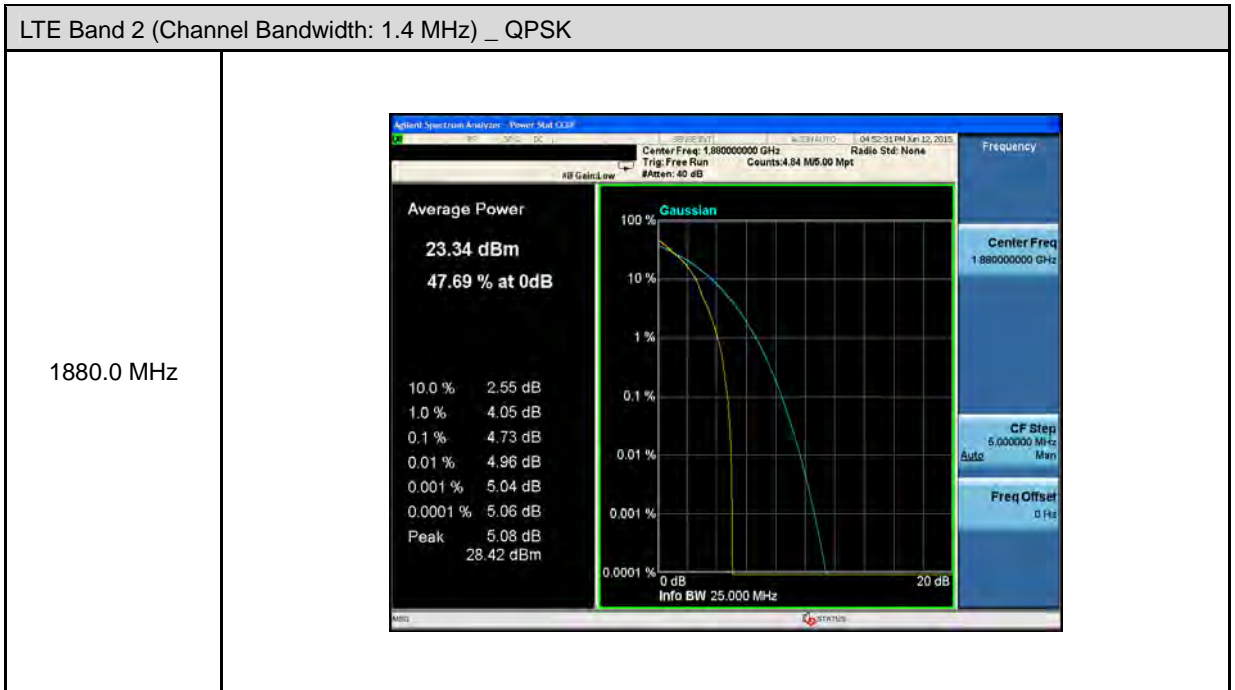
Model Number	LE910-SV V2		
Test Item	Peak to Average Ratio		
Date of Test	06/12/2015	Test Site	TE05

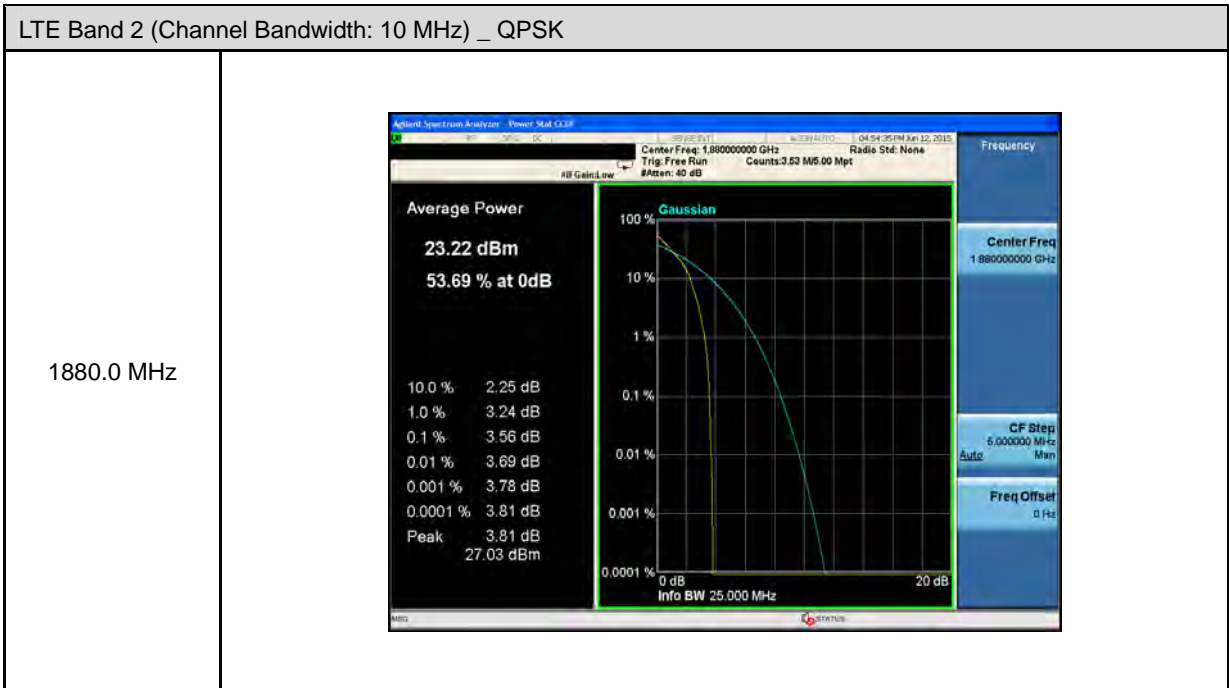
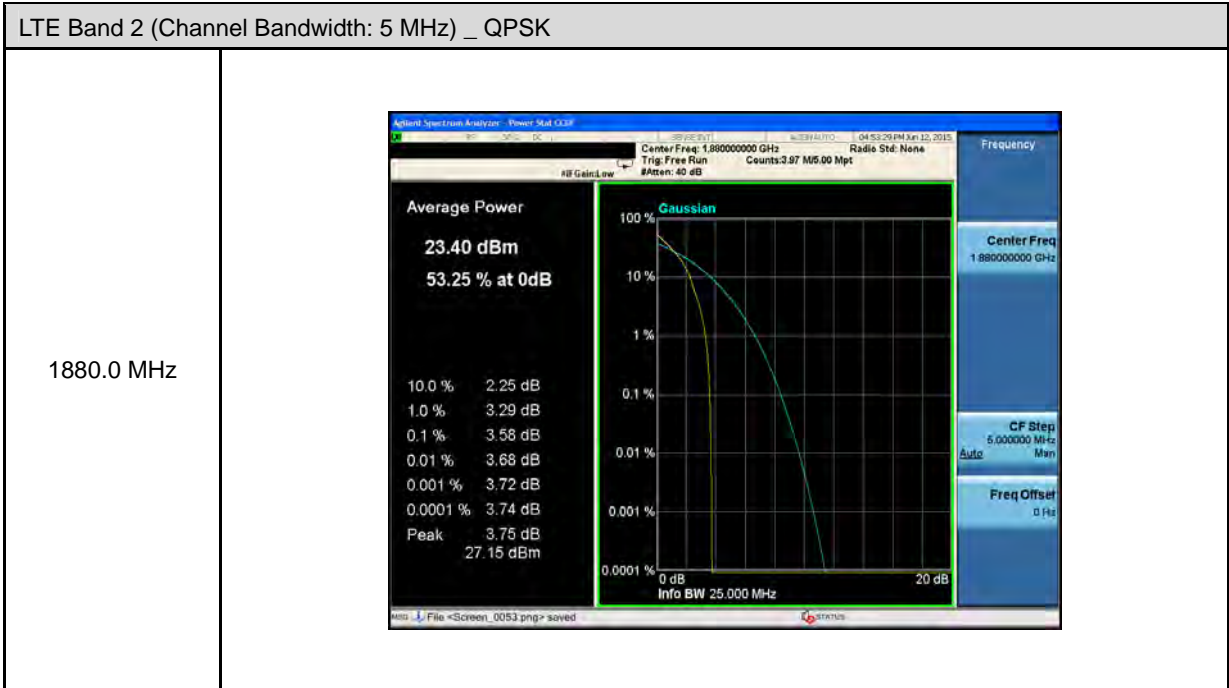
LTE Band 2				
Modulation	Channel Bandwidth	Frequency (MHz)	Peak to Average Ratio (dB)	Limit (dB)
QPSK	1.4 MHz	1880.0	4.73	< 13
	3 MHz	1880.0	4.42	< 13
	5 MHz	1880.0	3.58	< 13
	10 MHz	1880.0	3.56	< 13
	15 MHz	1880.0	3.29	< 13
	20 MHz	1880.0	3.32	< 13
16QAM	1.4 MHz	1880.0	5.53	< 13
	3 MHz	1880.0	5.14	< 13
	5 MHz	1880.0	4.37	< 13
	10 MHz	1880.0	4.38	< 13
	15 MHz	1880.0	4.13	< 13
	20 MHz	1880.0	3.96	< 13

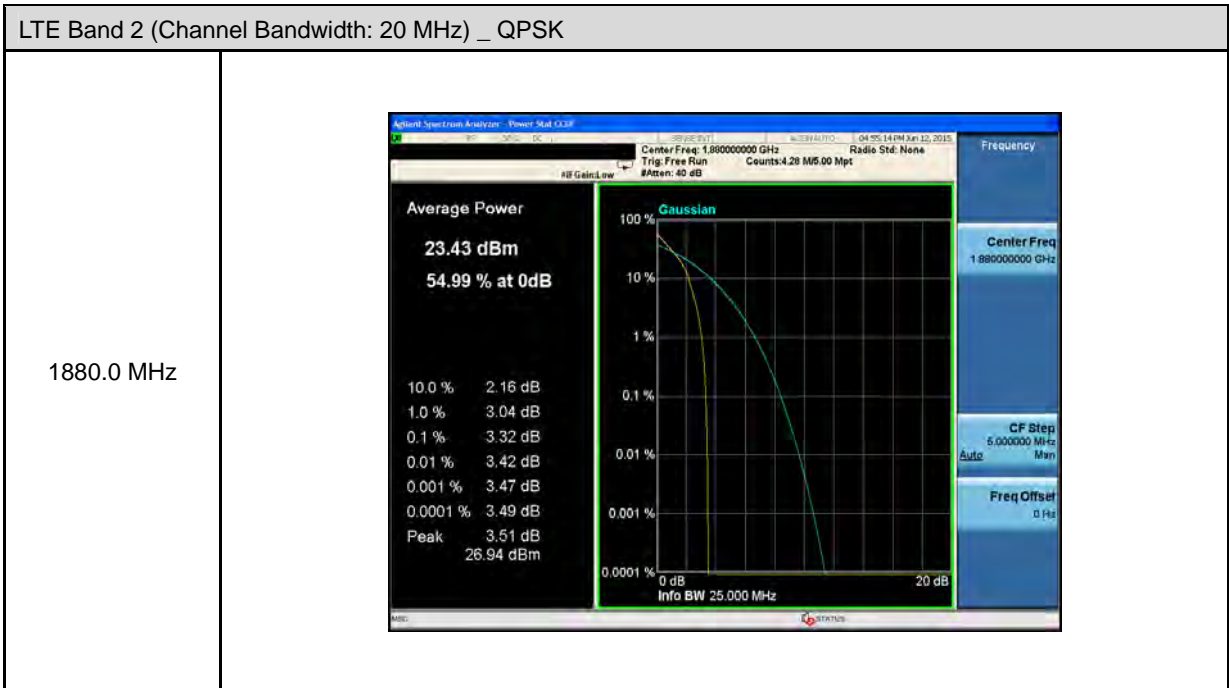
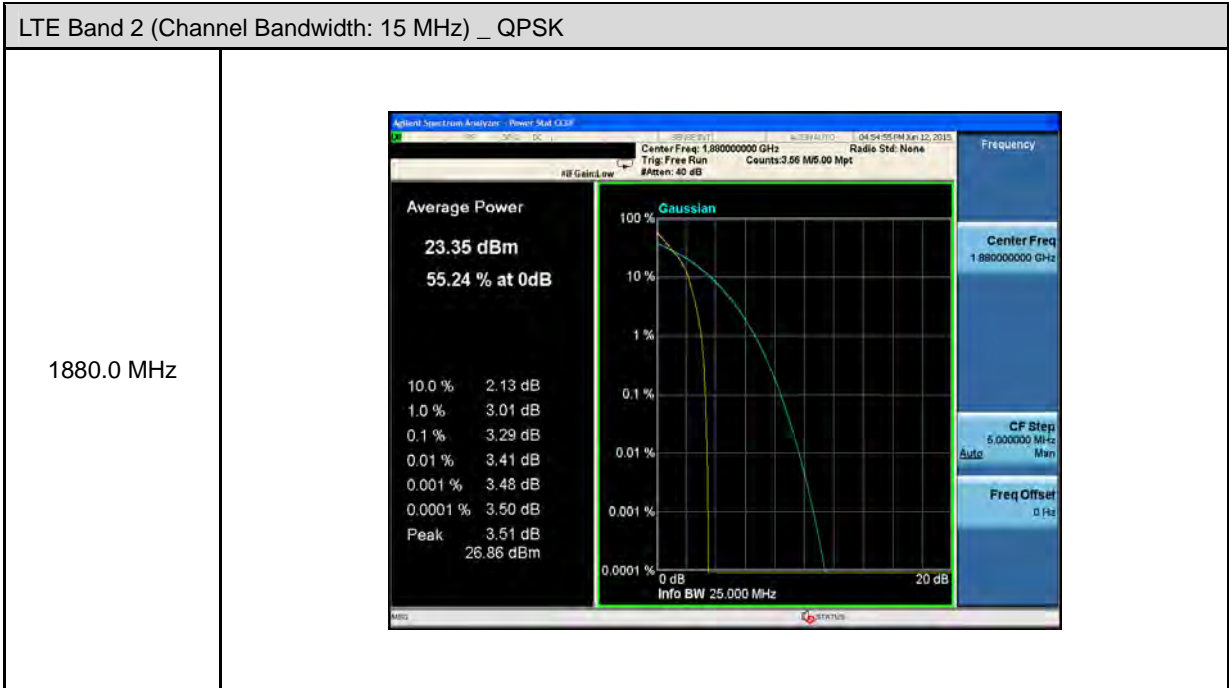
LTE Band 4				
Modulation	Channel Bandwidth	Frequency (MHz)	Peak to Average Ratio (dB)	Limit (dB)
QPSK	1.4 MHz	1732.5	5.49	< 13
	3 MHz	1732.5	5.30	< 13
	5 MHz	1732.5	5.23	< 13
	10 MHz	1732.5	5.34	< 13
	15 MHz	1732.5	5.35	< 13
	20 MHz	1732.5	5.30	< 13
16QAM	1.4 MHz	1732.5	6.20	< 13
	3 MHz	1732.5	6.02	< 13
	5 MHz	1732.5	5.85	< 13
	10 MHz	1732.5	6.13	< 13
	15 MHz	1732.5	6.19	< 13
	20 MHz	1732.5	5.79	< 13

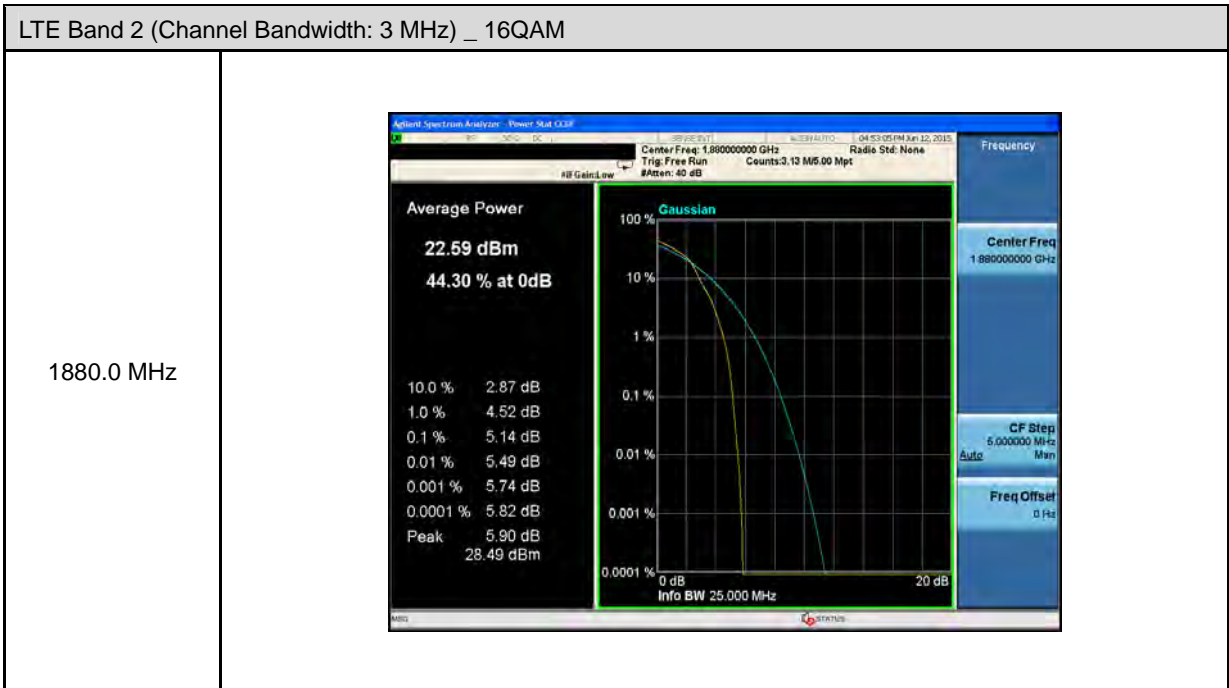
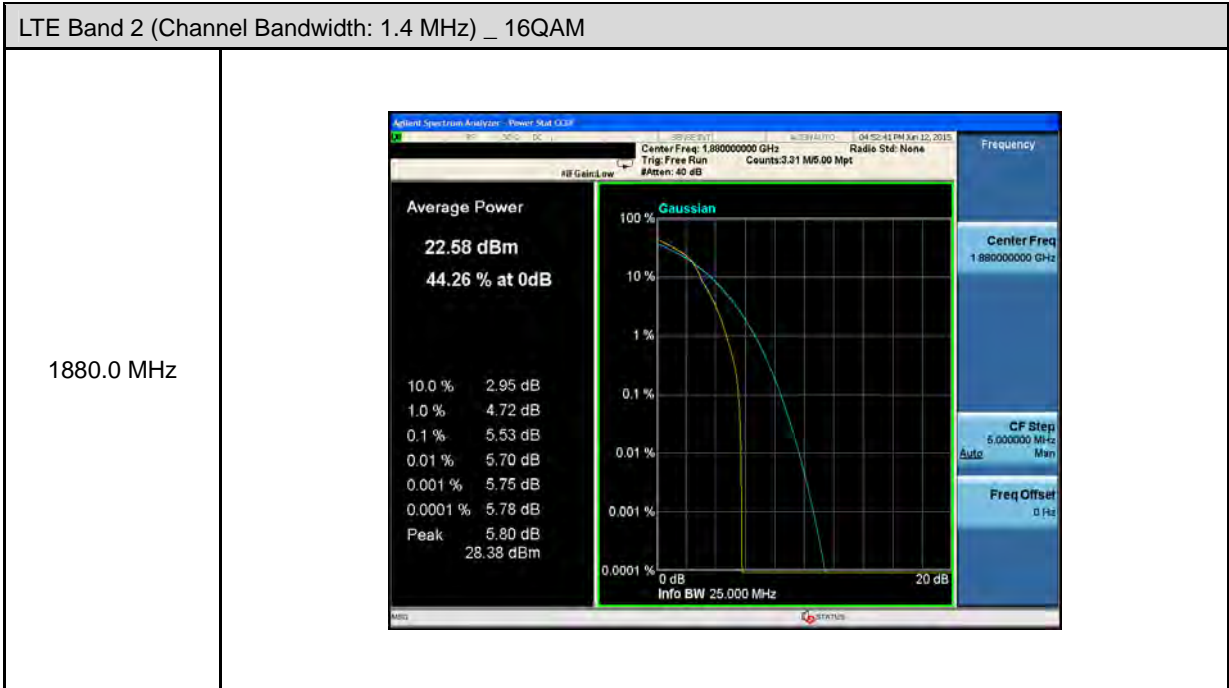
LTE Band 13				
Modulation	Channel Bandwidth	Frequency (MHz)	Peak to Average Ratio (dB)	Limit (dB)
QPSK	5 MHz	782.0	5.49	< 13
	10 MHz	782.0	5.61	< 13
16QAM	5 MHz	782.0	6.08	< 13
	10 MHz	782.0	6.38	< 13

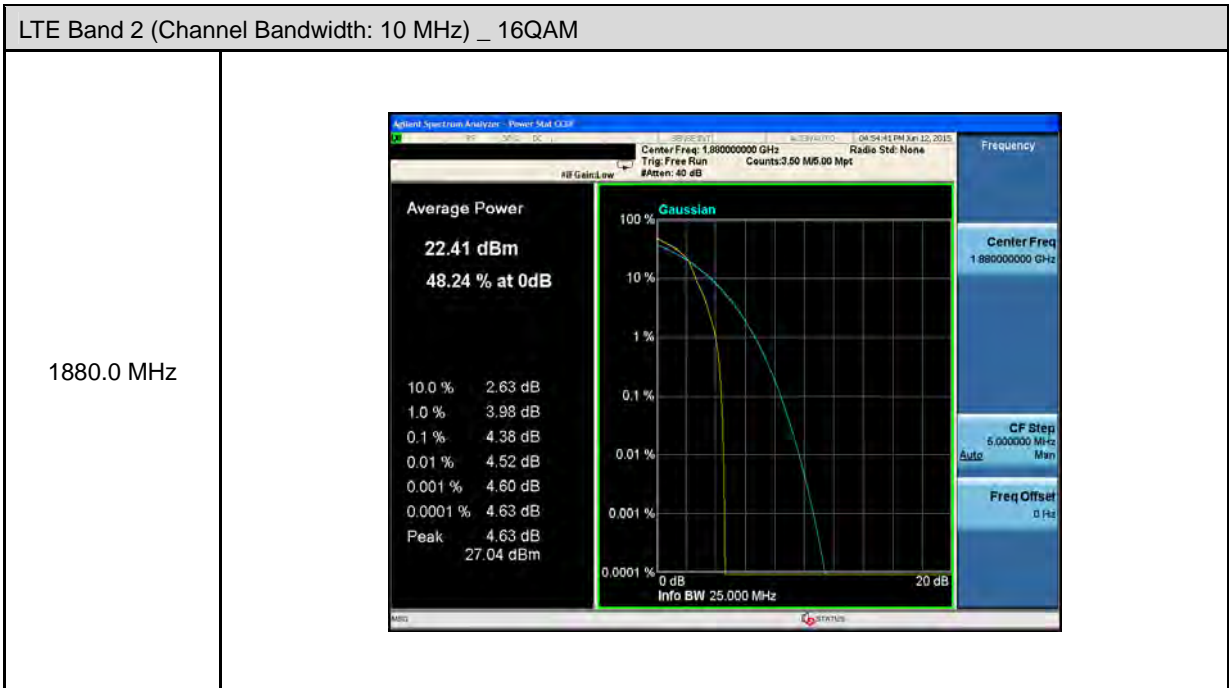
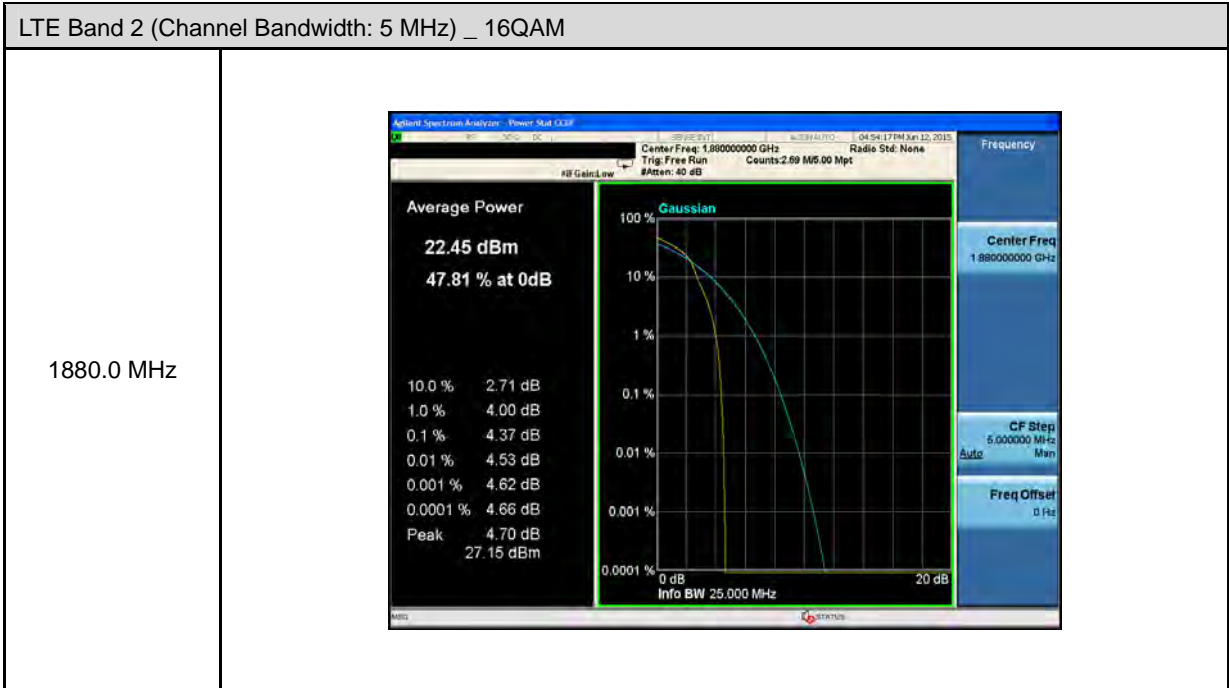
6.7. Test Graphs

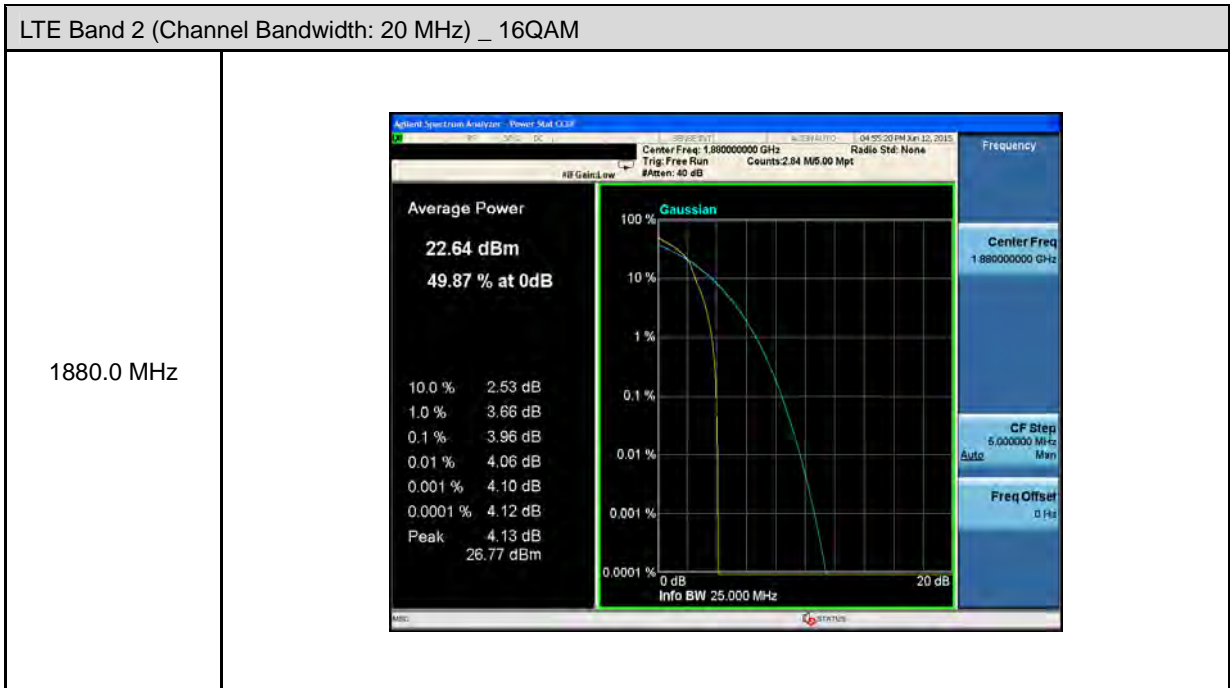
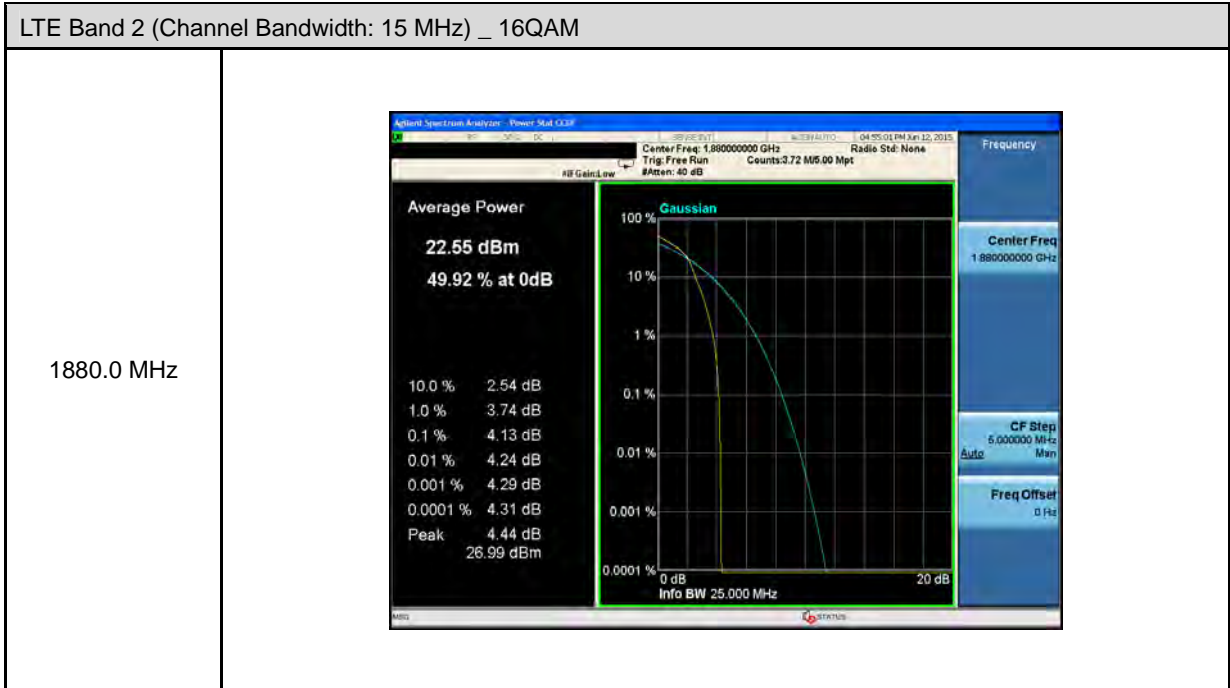


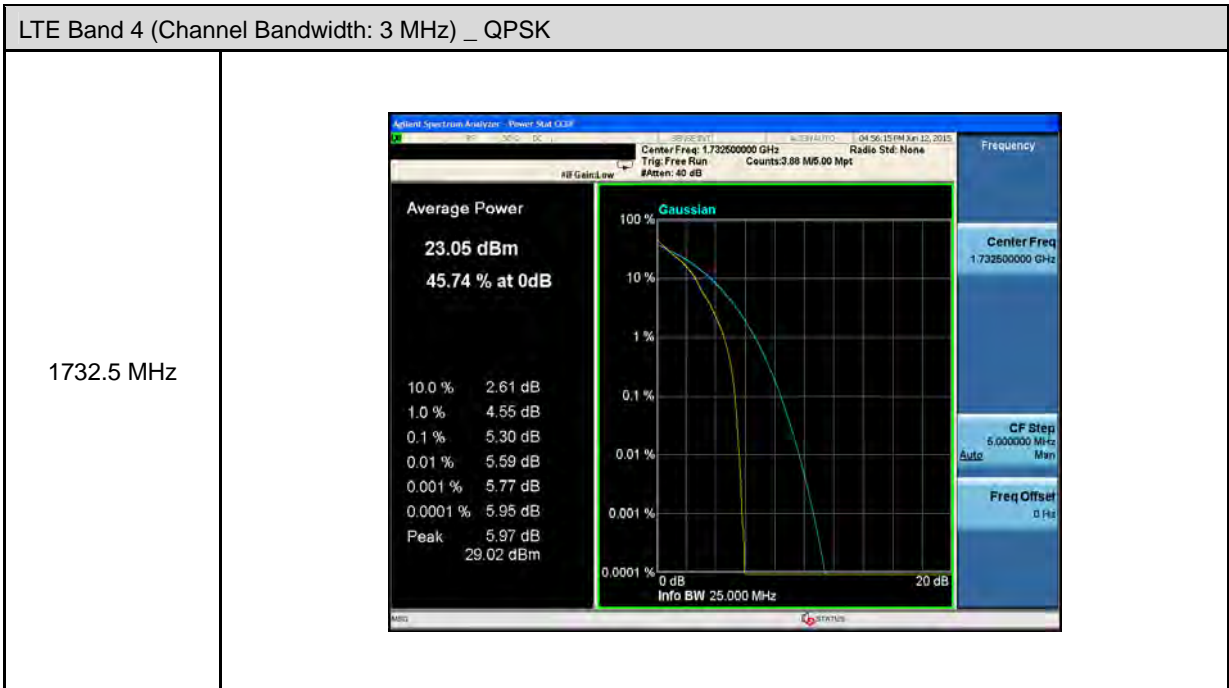
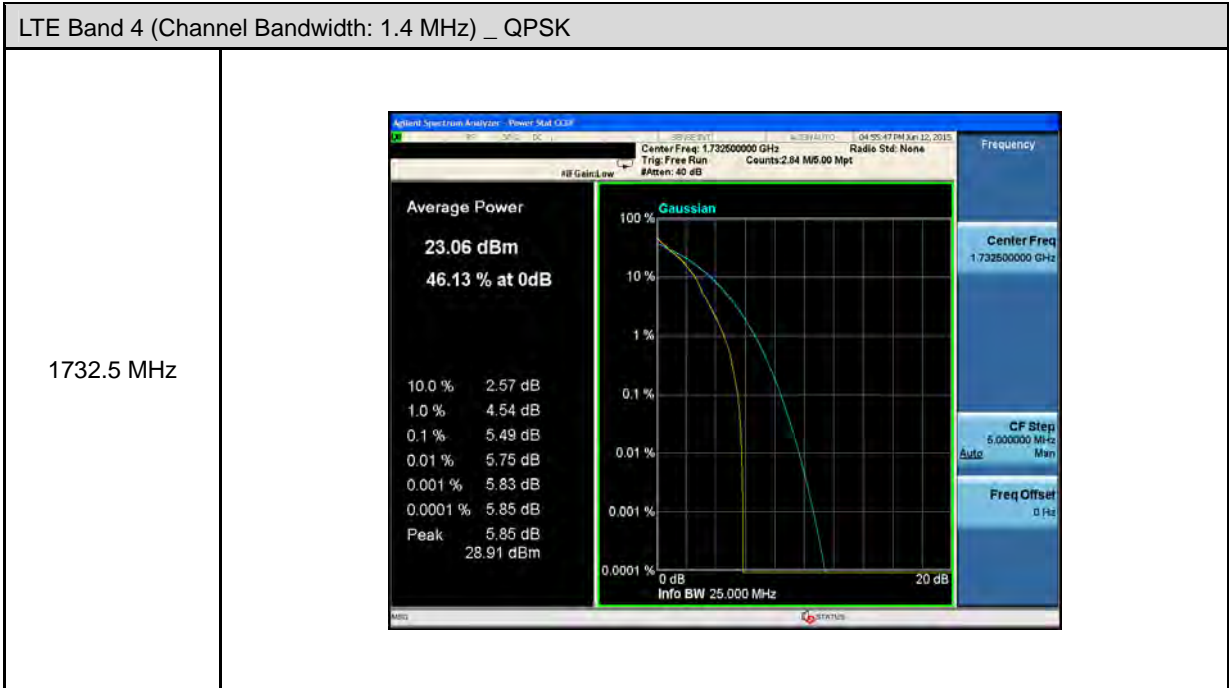


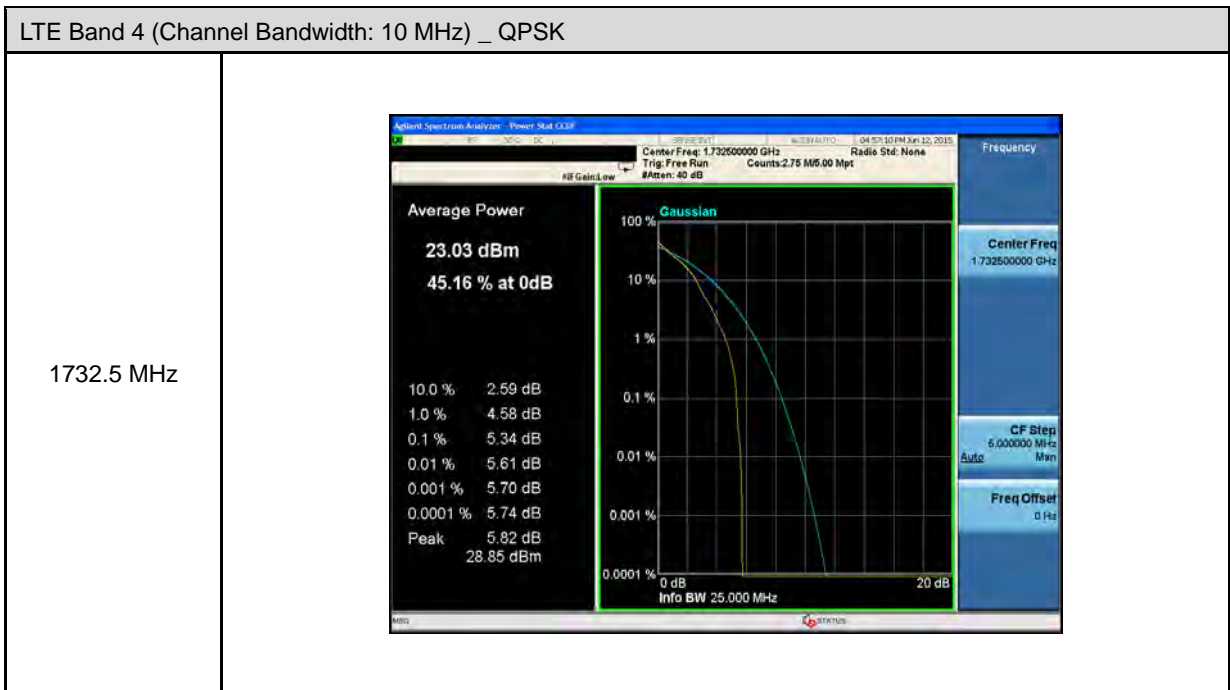
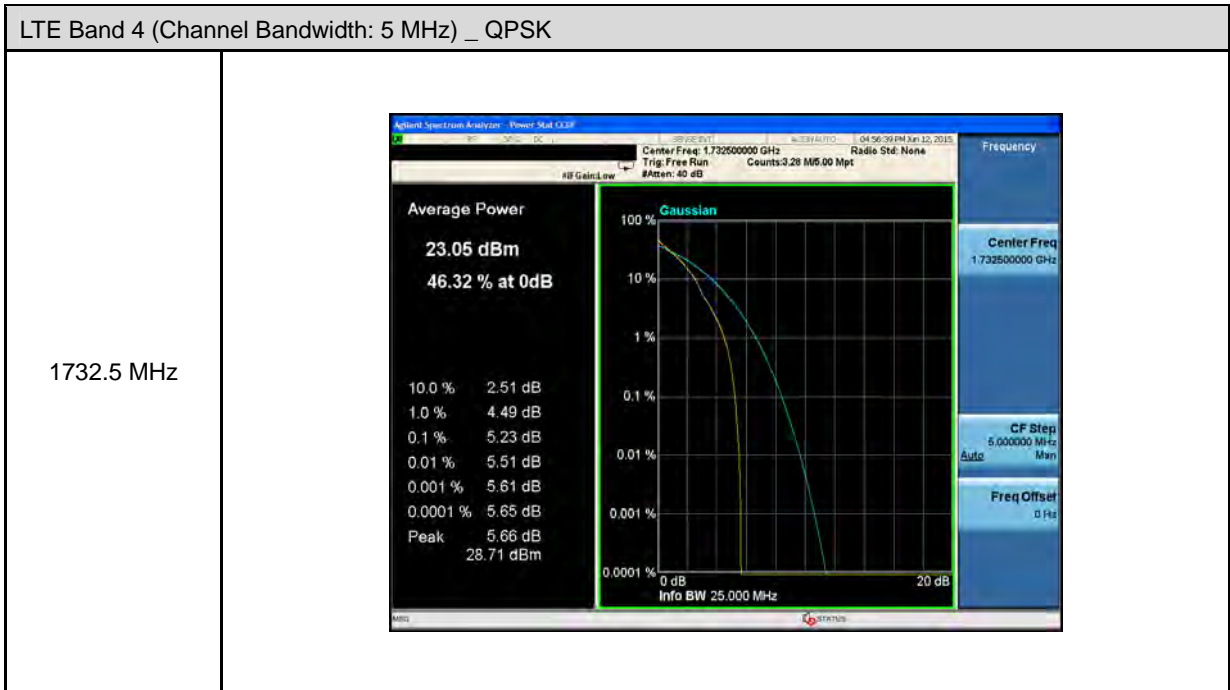


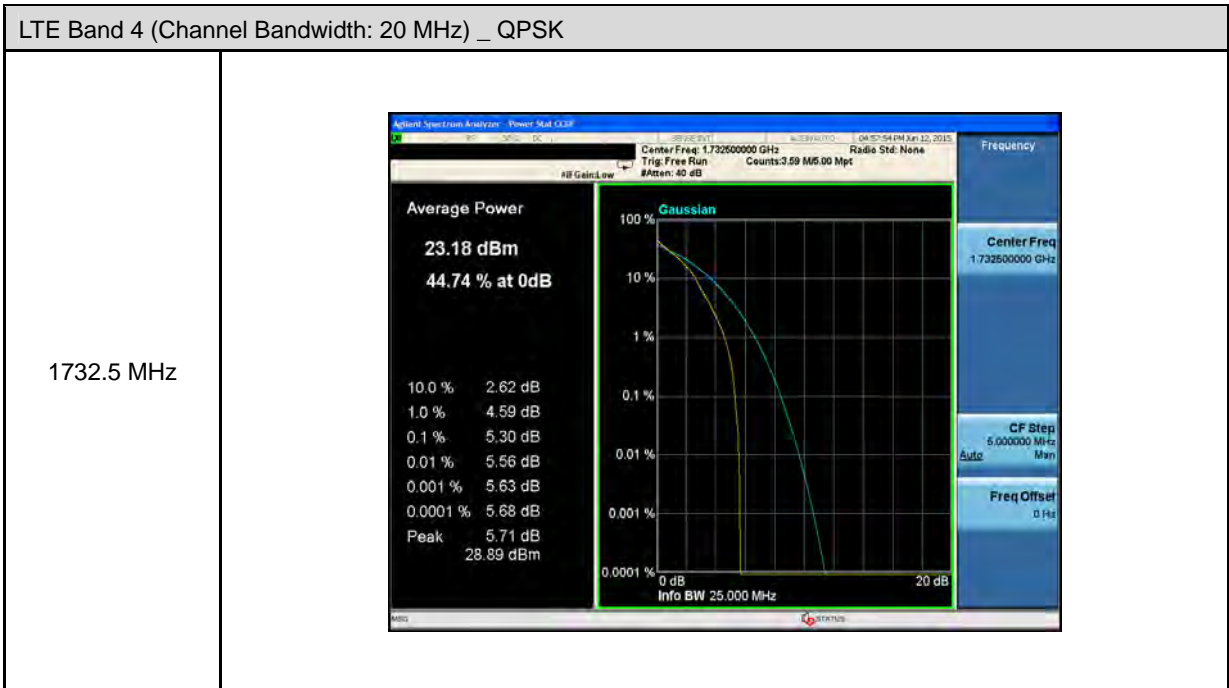
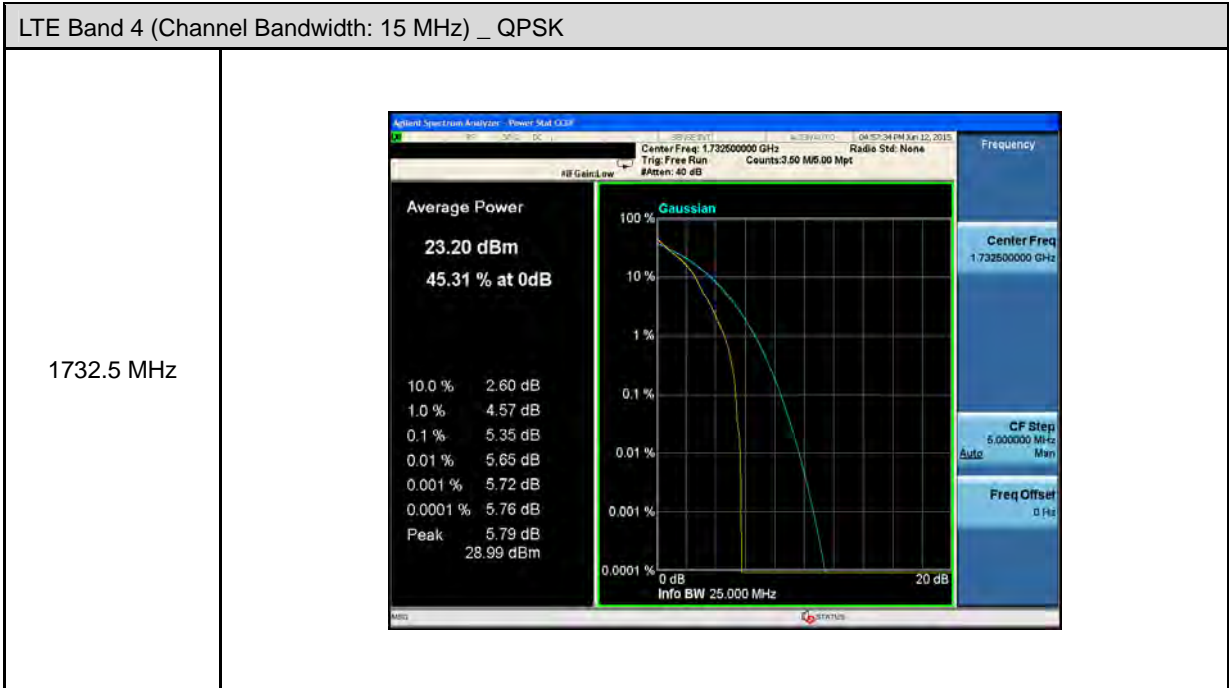


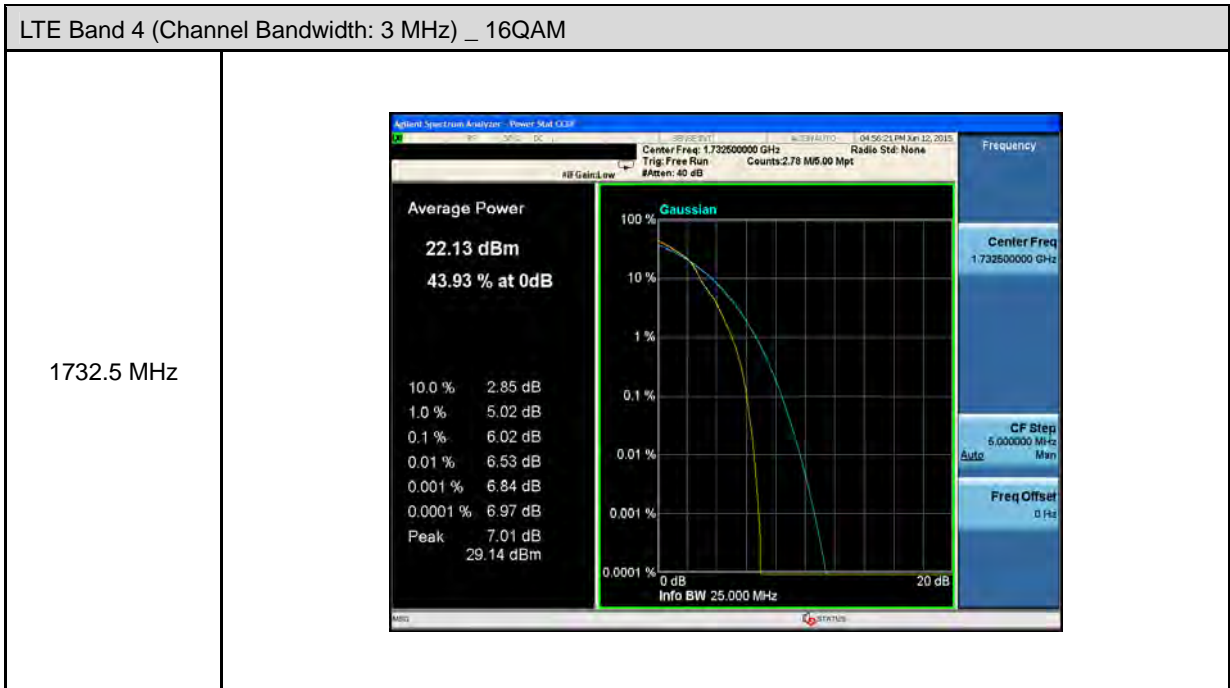
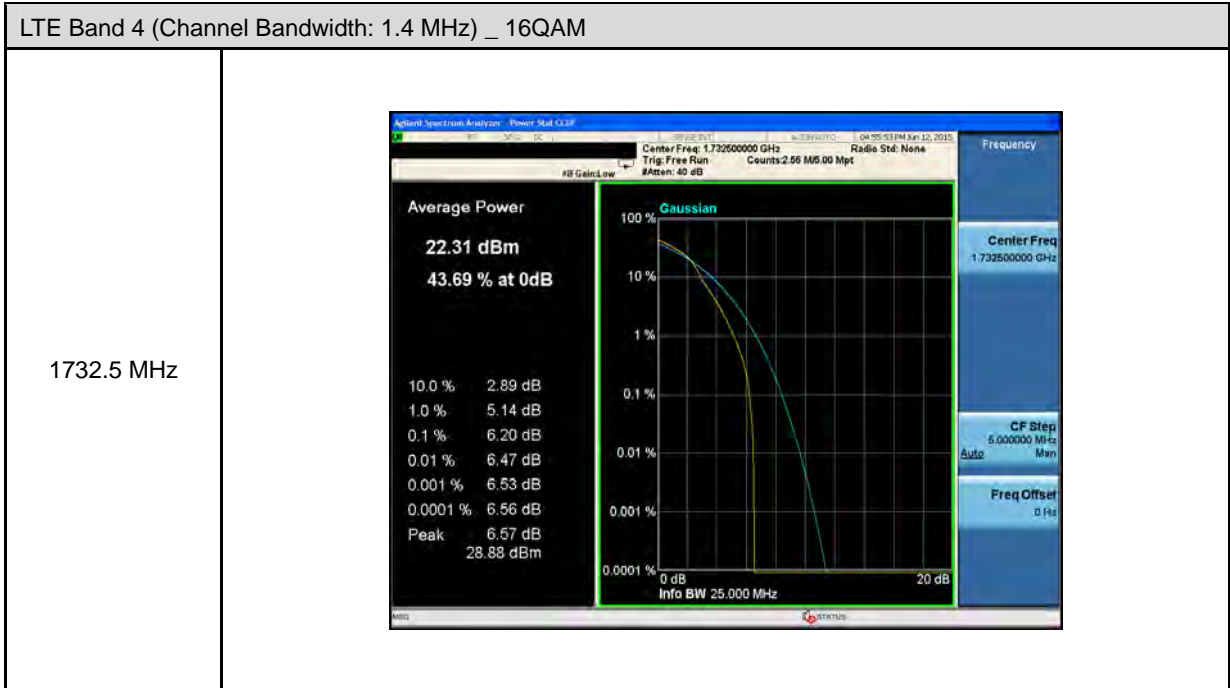


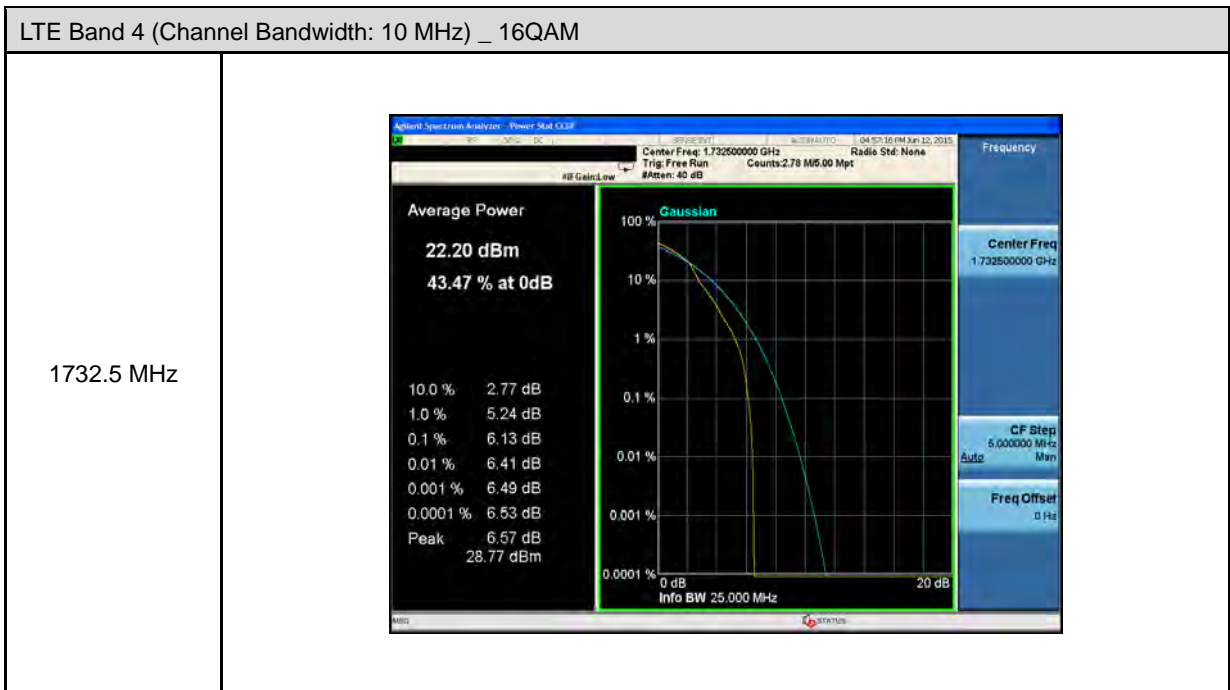
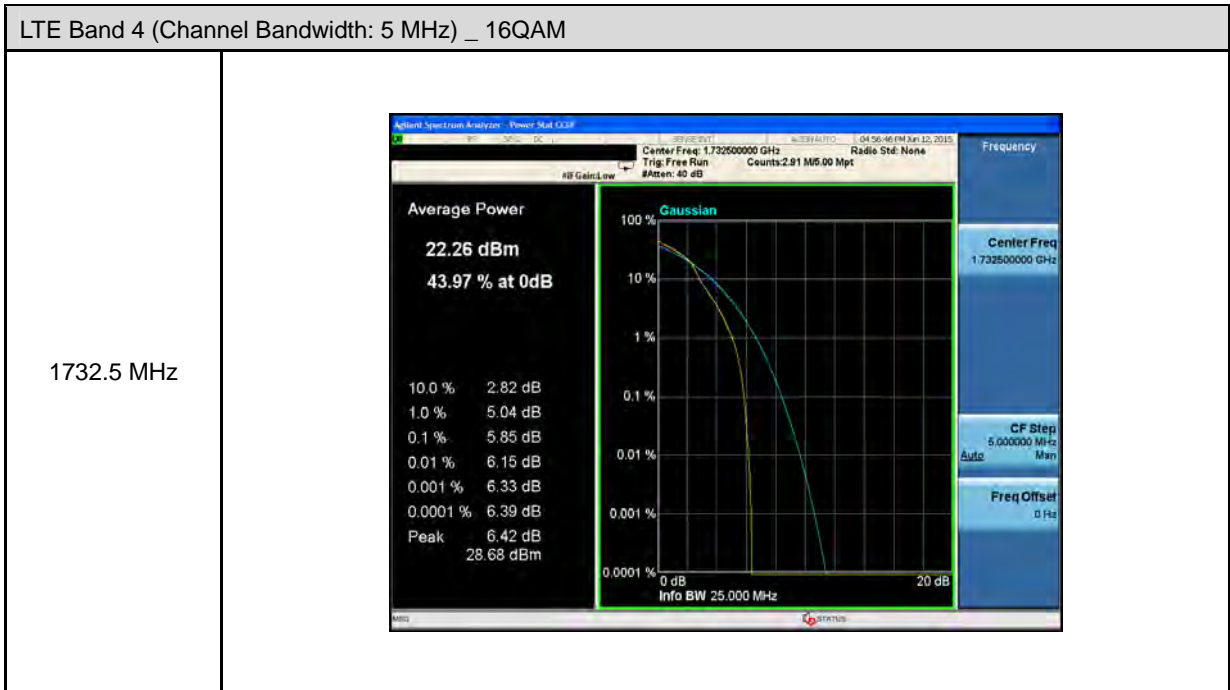


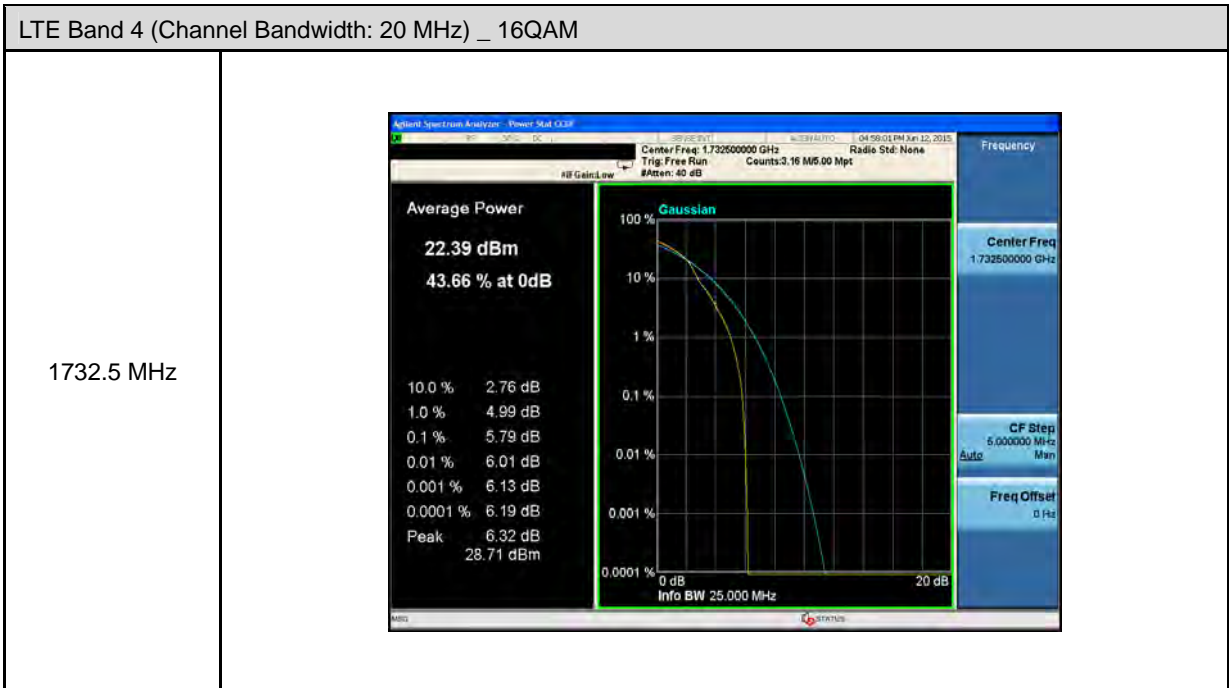
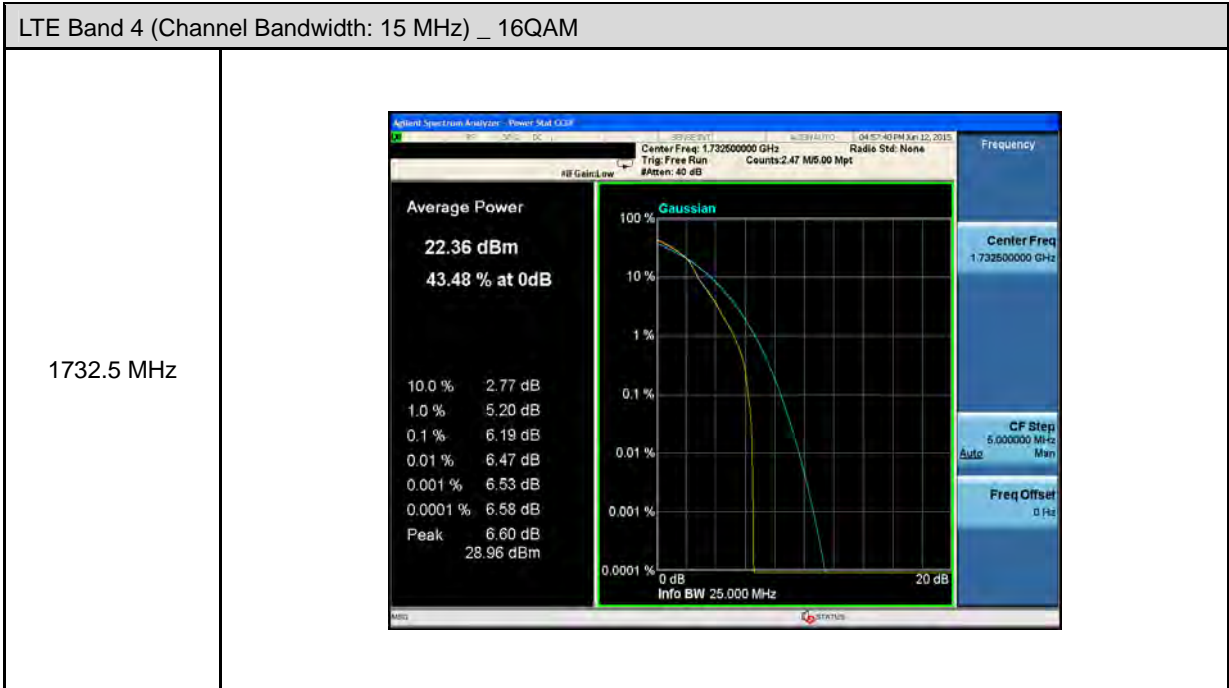


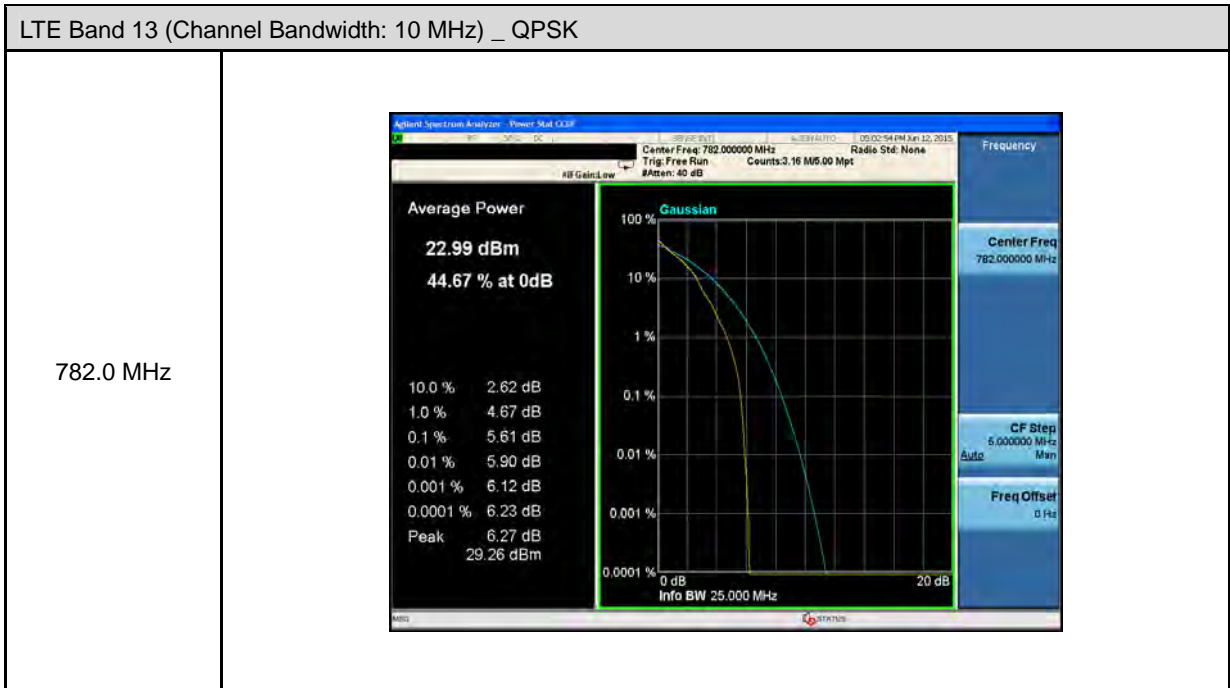
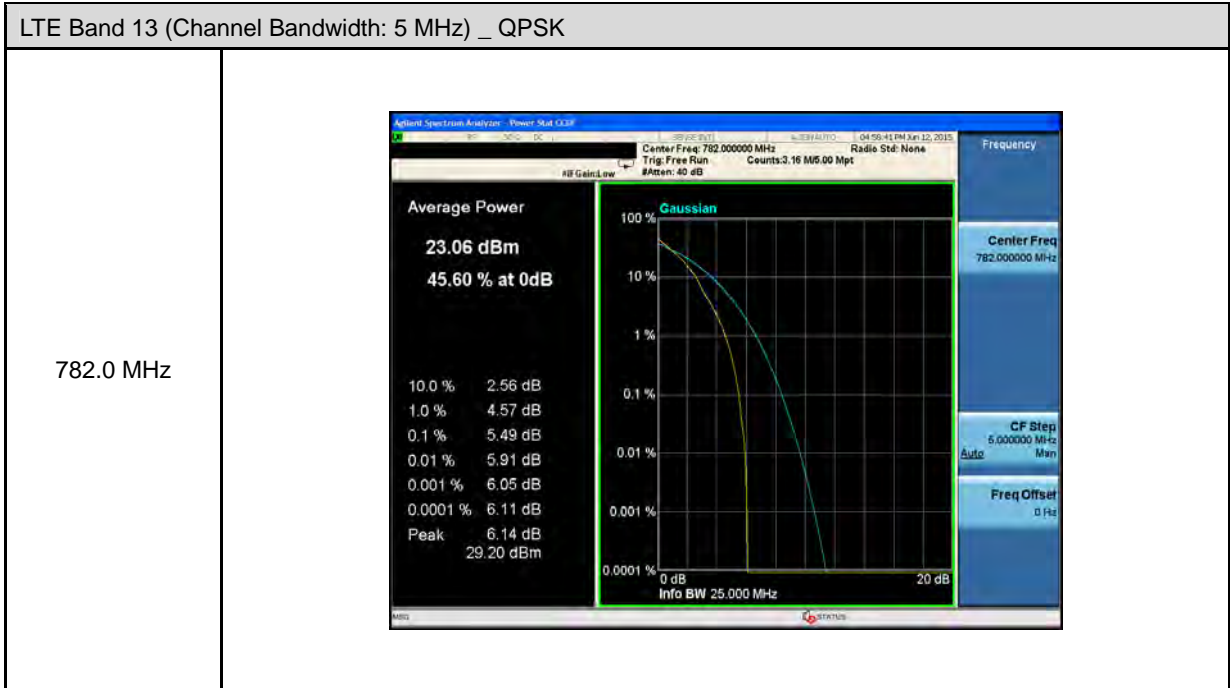


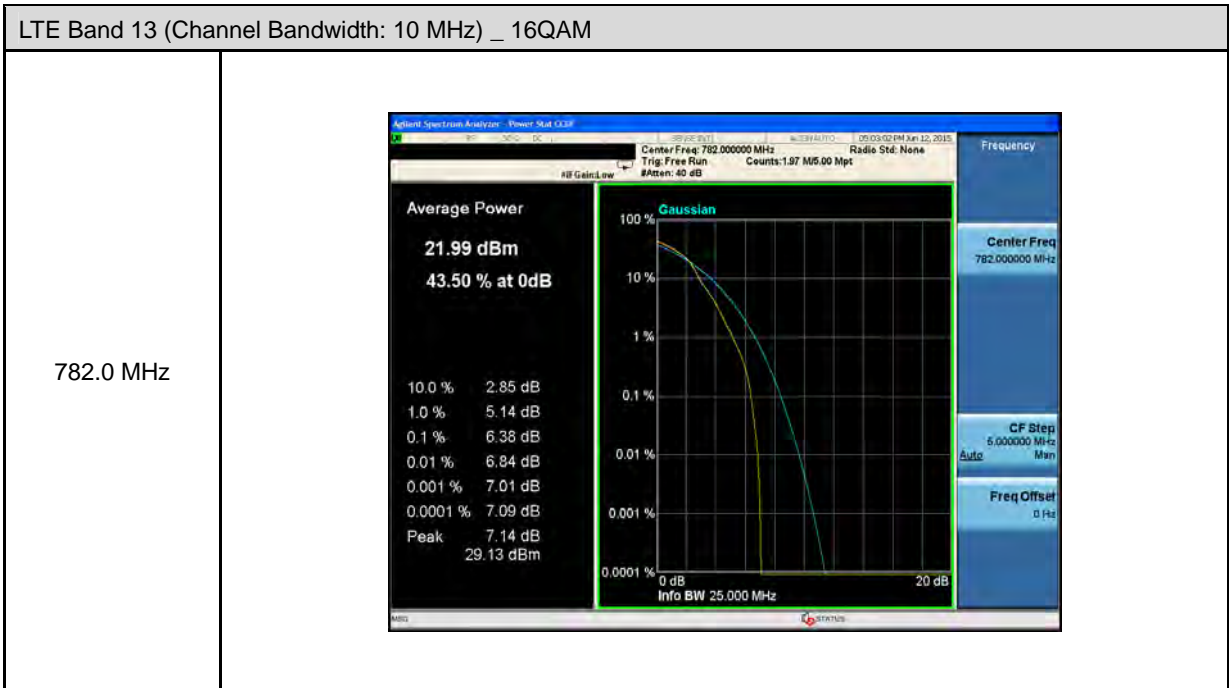
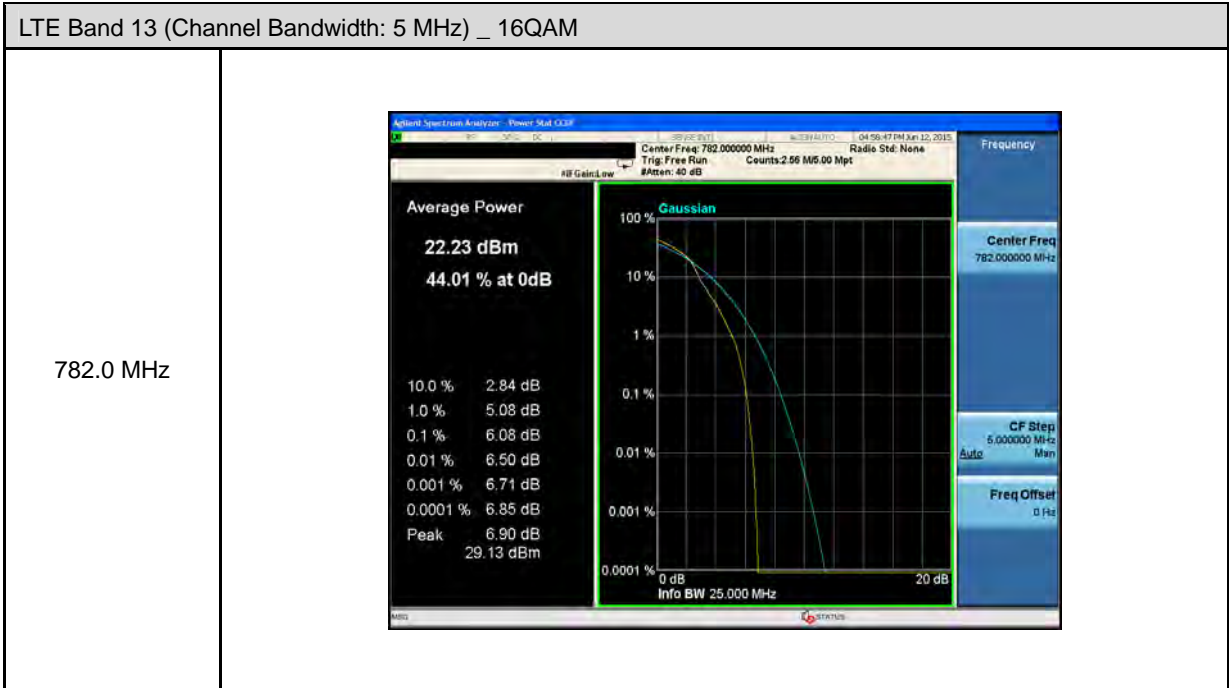












7 Band Edge Test

7.1. Limit

The Band Edge Limit:

§24.238(a)

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10\log(P)$ dB.

§27.53(c)(2)

On any frequency outside the 777-787 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least $43 + 10 \log (P)$ dB.

§27.53(c)(4)

On all frequencies between 763-775 MHz and 793-805 MHz, by a factor not less than $65 + 10 \log (P)$ dB in a 6.25 kHz band segment, for mobile and portable stations.

LTE Band 13_BW=5M				
Frequency (MHz)	RBW=10kHz Measurement (dBm)	RBW=6.25kHz Measurement (dBm)	Limit -35dBm/6.25kHz	Result
763 ~ 775	-53.786	-55.827	-35	PASS
793 ~ 805	-63.215	-65.256	-35	PASS

LTE Band 13_BW=10M				
Frequency (MHz)	RBW=10kHz Measurement (dBm)	RBW=6.25kHz Measurement (dBm)	Limit -35dBm/6.25kHz	Result
763 ~775	-49.412	-51.453	-35	PASS
793 ~805	-50.613	-52.654	-35	PASS

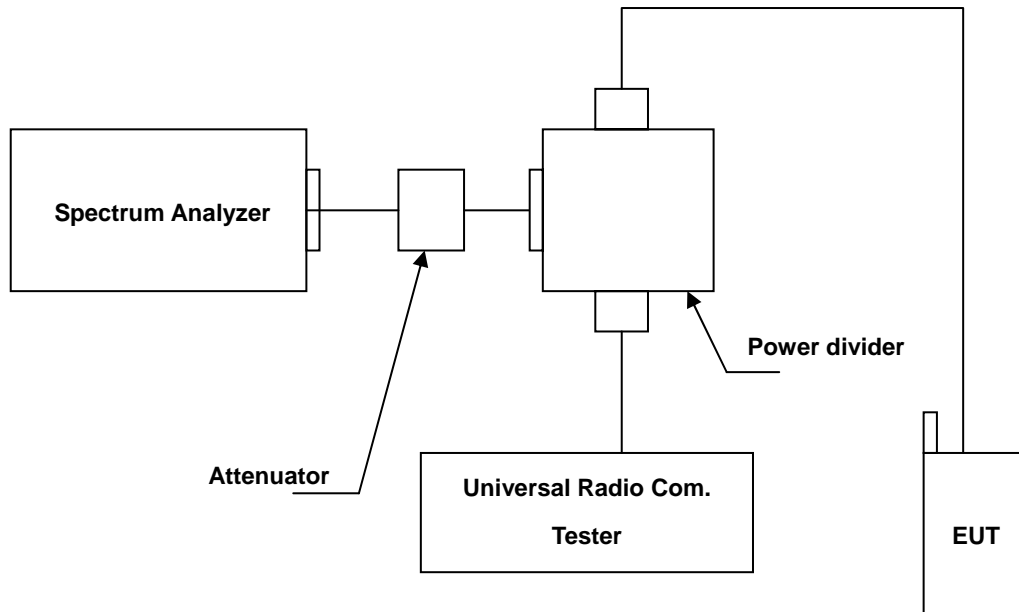
7.2. Test Instruments

Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Remark
Spectrum Analyzer	Agilent	E4445A	MY46181986	05/14/2015	(1)
Wideband Radio Communication Test	R & S	CMW500	103168	11/05/2014	(1)
Attenuator	RADIALL	R41572000	0603033073	N.C.R.	-----
Power divider	Agilent	87302C	3239A00760	N.C.R.	-----
Test Site	ATL	TE05	TE05	N.C.R.	-----

Remark: ⁽¹⁾ Calibration period 1 year. ⁽²⁾ Calibration period 2 years.

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

7.3. Setup



7.4. Test Procedure

The measurement is made according to FCC rules:

- The EUT was set up for the maximum peak power with LTE/WCDMA link data modulation. The power was measured with Spectrum Analyzer. All measurements were done at 2 channels (low and high operational frequency range.)
- The band edge measurement used the power splitter via EUT RF power connector between simulation base station and spectrum analyzer. This splitter loss and cable loss are the worst loss in the transmitted path track.
- The center frequency of spectrum is the band edge frequency and span is 10 MHz. RB of the resolution bandwidth of at least one percent of the emission bandwidth.
- Record the max trace plot into the test report.

7.5. Uncertainty

The measurement uncertainty is defined as for Conducted Power measurement is 1.2 dB.

7.6. Test Result

Frequency	LTE Band 2	Channel Bandwidth	1.4 MHz	RB Allocated	6
Lower Band Edge					
Higher Band Edge					

Frequency	LTE Band 2	Channel Bandwidth	3 MHz	RB Allocated	15
Lower Band Edge	<p>Agilent R T Freq/Channel</p> <p>Ref 20 dBm Atten 30 dB Mkr1 1.850 00 GHz -21.263 dBm</p> <p>#Avg Log 10 dB/ Offst 4.3 dB DI -13.0 dBm PAvg 100 W1 S2 S3 FS RA</p> <p>Center 1.850 00 GHz Span 10 MHz #Res BW 100 kHz #VBW 300 kHz Sweep 3.04 ms (601 pts)</p> <p>Copyright 2000-2006 Agilent Technologies</p> <p>Center Freq: 1.85000000 GHz Start Freq: 1.84500000 GHz Stop Freq: 1.85500000 GHz CF Step: 1.00000000 MHz Freq Offset: 0.00000000 Hz Signal Track: On</p>				
Higher Band Edge	<p>Agilent R T Freq/Channel</p> <p>Ref 20 dBm Atten 30 dB Mkr1 1.910 00 GHz -23.388 dBm</p> <p>#Avg Log 10 dB/ Offst 4.3 dB DI -13.0 dBm PAvg 100 W1 S2 S3 FS RA</p> <p>Center 1.910 00 GHz Span 10 MHz #Res BW 100 kHz #VBW 300 kHz Sweep 3.04 ms (601 pts)</p> <p>Copyright 2000-2006 Agilent Technologies</p> <p>Center Freq: 1.91000000 GHz Start Freq: 1.90500000 GHz Stop Freq: 1.91500000 GHz CF Step: 1.00000000 MHz Freq Offset: 0.00000000 Hz Signal Track: On</p>				

Frequency	LTE Band 2	Channel Bandwidth	5 MHz	RB Allocated	25
Lower Band Edge					
Higher Band Edge					

Frequency	LTE Band 2	Channel Bandwidth	10 MHz	RB Allocated	50
Lower Band Edge					
Higher Band Edge					

Frequency	LTE Band 2	Channel Bandwidth	15 MHz	RB Allocated	75
Lower Band Edge					
Higher Band Edge					

Frequency	LTE Band 2	Channel Bandwidth	20 MHz	RB Allocated	100
Lower Band Edge					
Higher Band Edge					

Frequency	LTE Band 4	Channel Bandwidth	1.4 MHz	RB Allocated	6
Lower Band Edge					
Higher Band Edge					

Frequency	LTE Band 4	Channel Bandwidth	3 MHz	RB Allocated	15
Lower Band Edge	<p>Agilent Spectrum Analyzer Screenshot: Lower Band Edge</p> <ul style="list-style-type: none"> Center Freq: 1.7100000 GHz Start Freq: 1.7050000 GHz Stop Freq: 1.7150000 GHz CF Step: 1.0000000 MHz Freq Offset: 0.0000000 Hz Signal Track: On Center: 1.710 00 GHz Span: 10 MHz Res BW: 100 kHz VBW: 300 kHz Sweep: 3.04 ms (601 pts) 				
Higher Band Edge	<p>Agilent Spectrum Analyzer Screenshot: Higher Band Edge</p> <ul style="list-style-type: none"> Center Freq: 1.7550000 GHz Start Freq: 1.7500000 GHz Stop Freq: 1.7600000 GHz CF Step: 1.0000000 MHz Freq Offset: 0.0000000 Hz Signal Track: On Center: 1.755 00 GHz Span: 10 MHz Res BW: 100 kHz VBW: 300 kHz Sweep: 3.04 ms (601 pts) 				

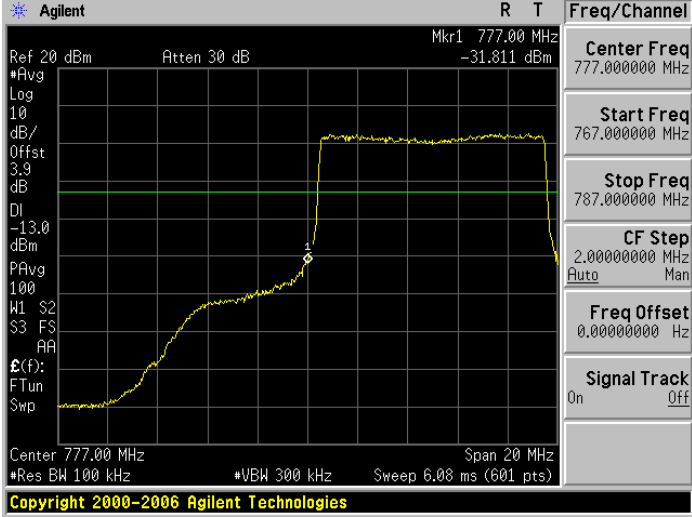
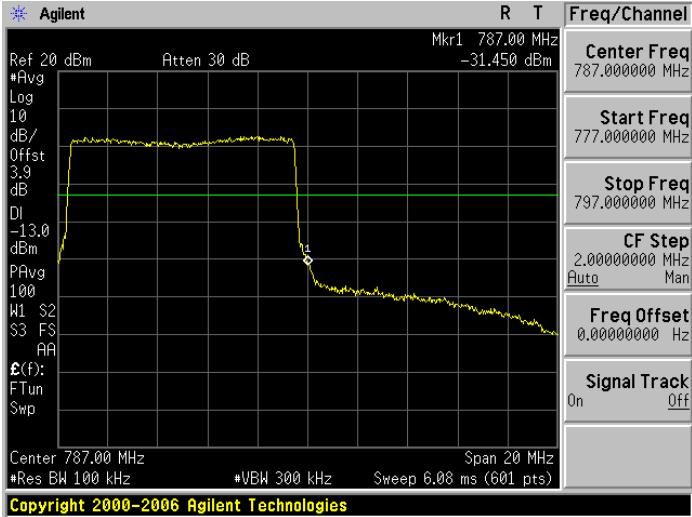
Frequency	LTE Band 4	Channel Bandwidth	5 MHz	RB Allocated	25
Lower Band Edge					
Higher Band Edge					

Frequency	LTE Band 4	Channel Bandwidth	10 MHz	RB Allocated	50
Lower Band Edge					
Higher Band Edge					

Frequency	LTE Band 4	Channel Bandwidth	15 MHz	RB Allocated	75
Lower Band Edge					
Higher Band Edge					

Frequency	LTE Band 4	Channel Bandwidth	20 MHz	RB Allocated	100
Lower Band Edge					
Higher Band Edge					

Frequency	LTE Band 13	Channel Bandwidth	5 MHz	RB Allocated	25
Res BW	100kHz				
Lower Band Edge					
Higher Band Edge					

Frequency	LTE Band 13	Channel Bandwidth	10 MHz	RB Allocated	50
Res BW	100kHz				
Lower Band Edge					
Higher Band Edge					

Frequency	LTE Band 13	Channel Bandwidth	5 MHz	RB Allocated	25
Res BW	10kHz				
Lower Band Edge	<p>Agilent R T Freq/Channel</p> <p>Ref 20 dBm Atten 30 dB Mkr1 774.98 MHz -53.786 dBm</p> <p>Center Freq 769.000000 MHz</p> <p>Start Freq 763.000000 MHz</p> <p>Stop Freq 775.000000 MHz</p> <p>CF Step 1.20000000 MHz Auto Man</p> <p>Freq Offset 0.00000000 Hz</p> <p>Signal Track On Off</p> <p>Start 763.00 MHz Stop 775.00 MHz</p> <p>#Res BW 10 kHz #VBW 30 kHz Sweep 362.7 ms (601 pts)</p> <p>Copyright 2000-2006 Agilent Technologies</p>				
Higher Band Edge	<p>Agilent R L Freq/Channel</p> <p>Ref 20 dBm Atten 30 dB Mkr1 793.26 MHz -63.215 dBm</p> <p>Center Freq 799.000000 MHz</p> <p>Start Freq 793.000000 MHz</p> <p>Stop Freq 805.000000 MHz</p> <p>CF Step 1.20000000 MHz Auto Man</p> <p>Freq Offset 0.00000000 Hz</p> <p>Signal Track On Off</p> <p>Start 793.00 MHz Stop 805.00 MHz</p> <p>#Res BW 10 kHz #VBW 30 kHz Sweep 362.7 ms (601 pts)</p> <p>Copyright 2000-2006 Agilent Technologies</p>				

Frequency	LTE Band 13	Channel Bandwidth	10 MHz	RB Allocated	50
Res BW	10kHz				
Lower Band Edge					
Higher Band Edge					

8 Conducted Spurious Emission and Radiation Emission Test

8.1. Limit

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

8.2. Test Instruments

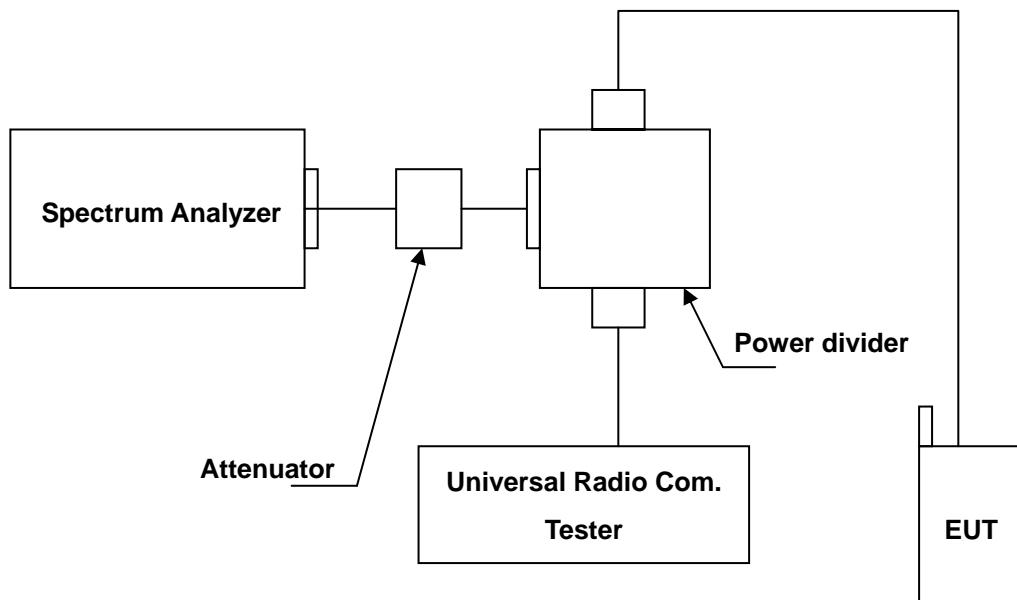
Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Remark
Spectrum Analyzer	Agilent	E4445A	MY46181986	05/14/2015	(1)
Wideband Radio Communication Test	R & S	CMW500	103168	11/05/2014	(1)
Attenuator	RADIALL	R41572000	0603033073	N.C.R.	-----
Power divider	Agilent	87302C	3239A00760	N.C.R.	-----
Test Site	ATL	TE02	TE02	N.C.R.	-----

Remark: ⁽¹⁾ Calibration period 1 year. ⁽²⁾ Calibration period 2 years.

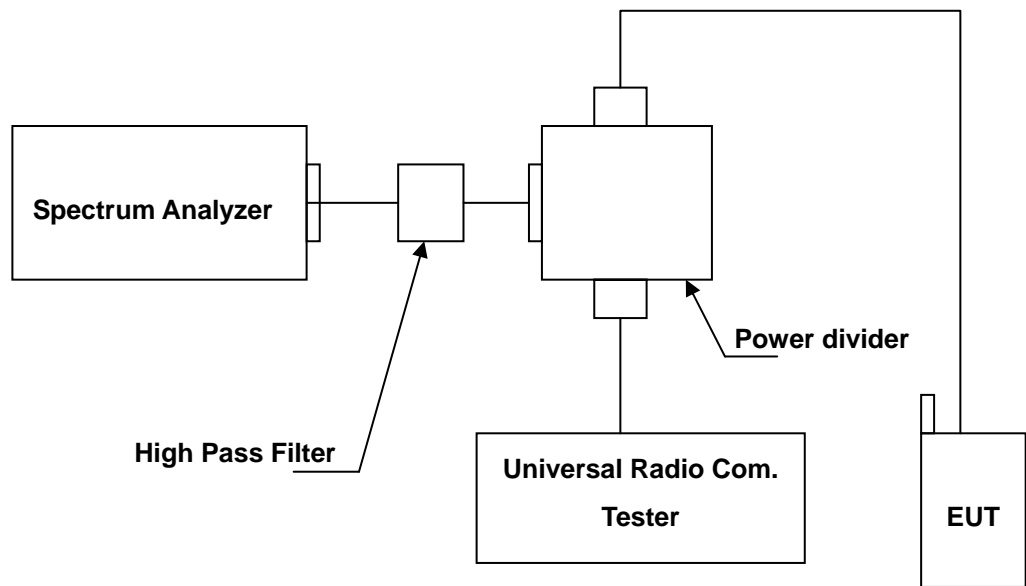
Note: N.C.R. = No Calibration Request.

8.3. Setup

Below 2.8GHz



Above 2.8GHz



8.4. Test Procedure

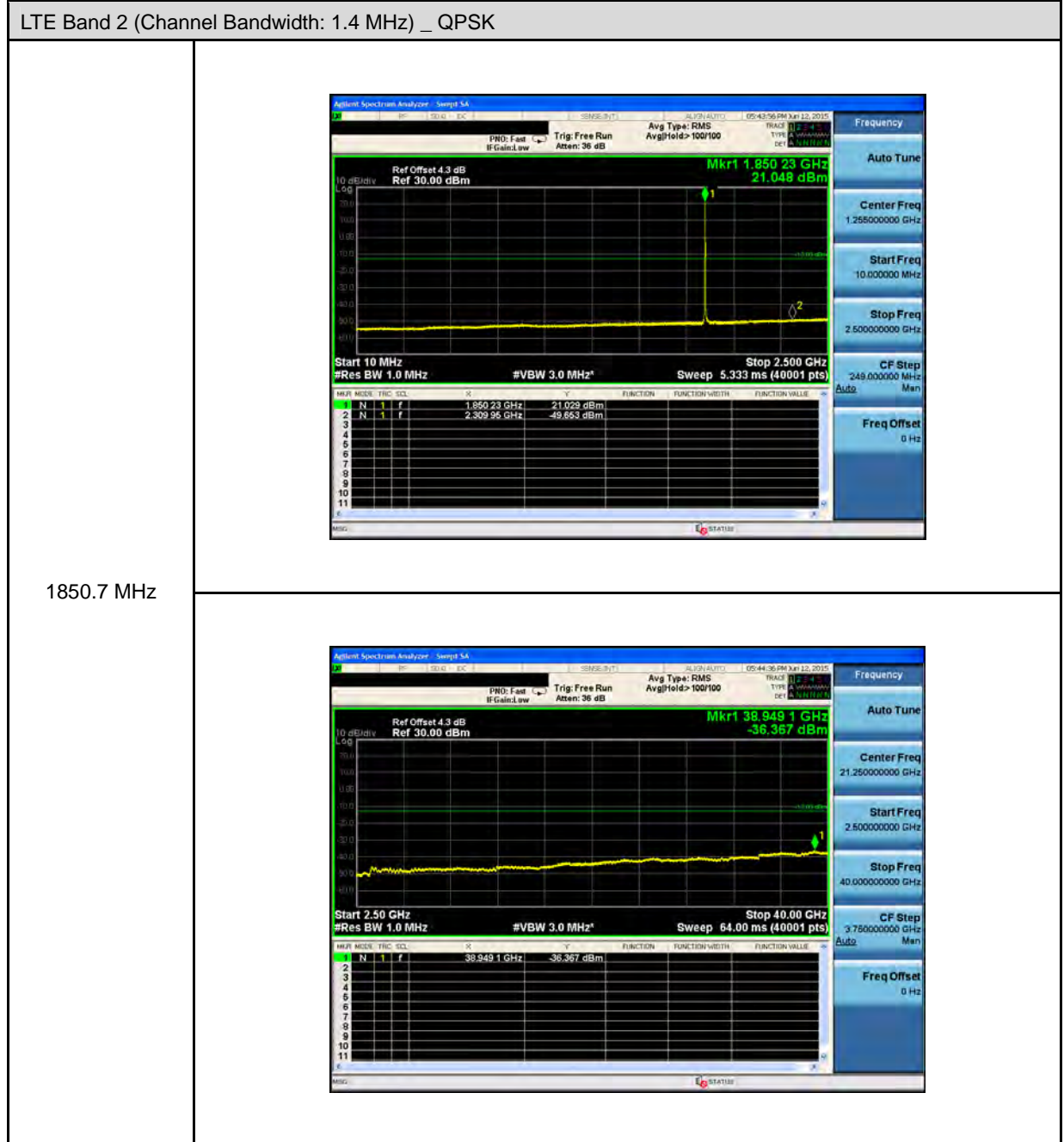
- The EUT was set up for the maximum peak power with LTE / WCDMA link data modulation. The power was measured with Spectrum Analyzer. All measurements were done at 3 channels (low, middle and high operational frequency range.).
- The conducted spurious emission used the power splitter via EUT RF power connector between simulation base station and spectrum analyzer.
- When the spectrum scanned from 10MHz to 2.5GHz (Band 7 and Band 41: scanned from 10MHz to 4GHz) , it shall be connected to the band reject filter attenuated the carried frequency. The spectrum set RB=1MHz, VB=1MHz.
- When the spectrum scanned from 2.5GHz to 10th harmonic (Band 7 and Band 41: scanned from 4GHz to 10th harmonic), it shall be connected to the high pass filter attenuated the carried frequency. The spectrum set RB=1MHz, VB=1MHz.

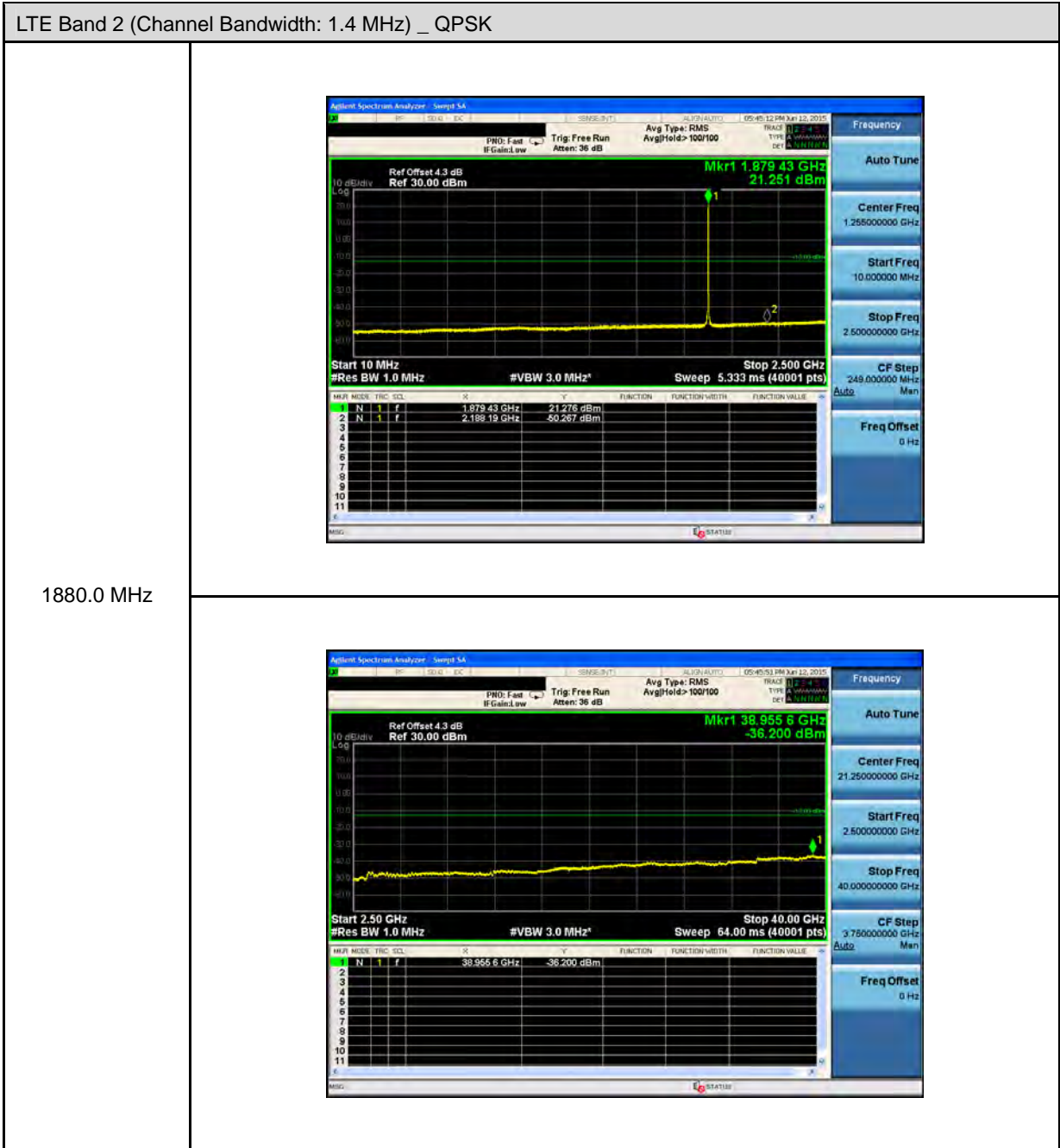
8.5. Uncertainty

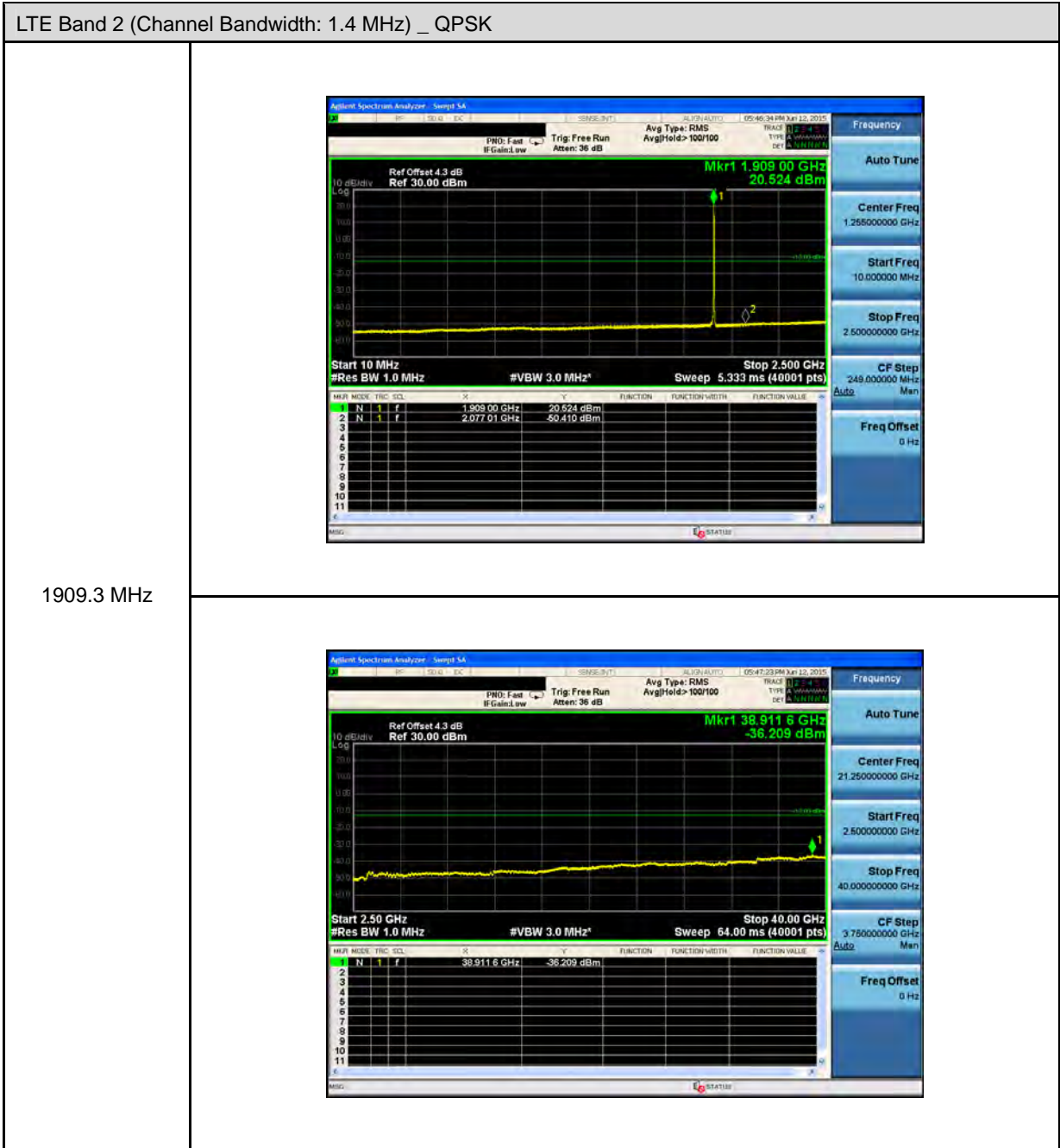
The measurement uncertainty is evaluated as ± 2.24 dB.

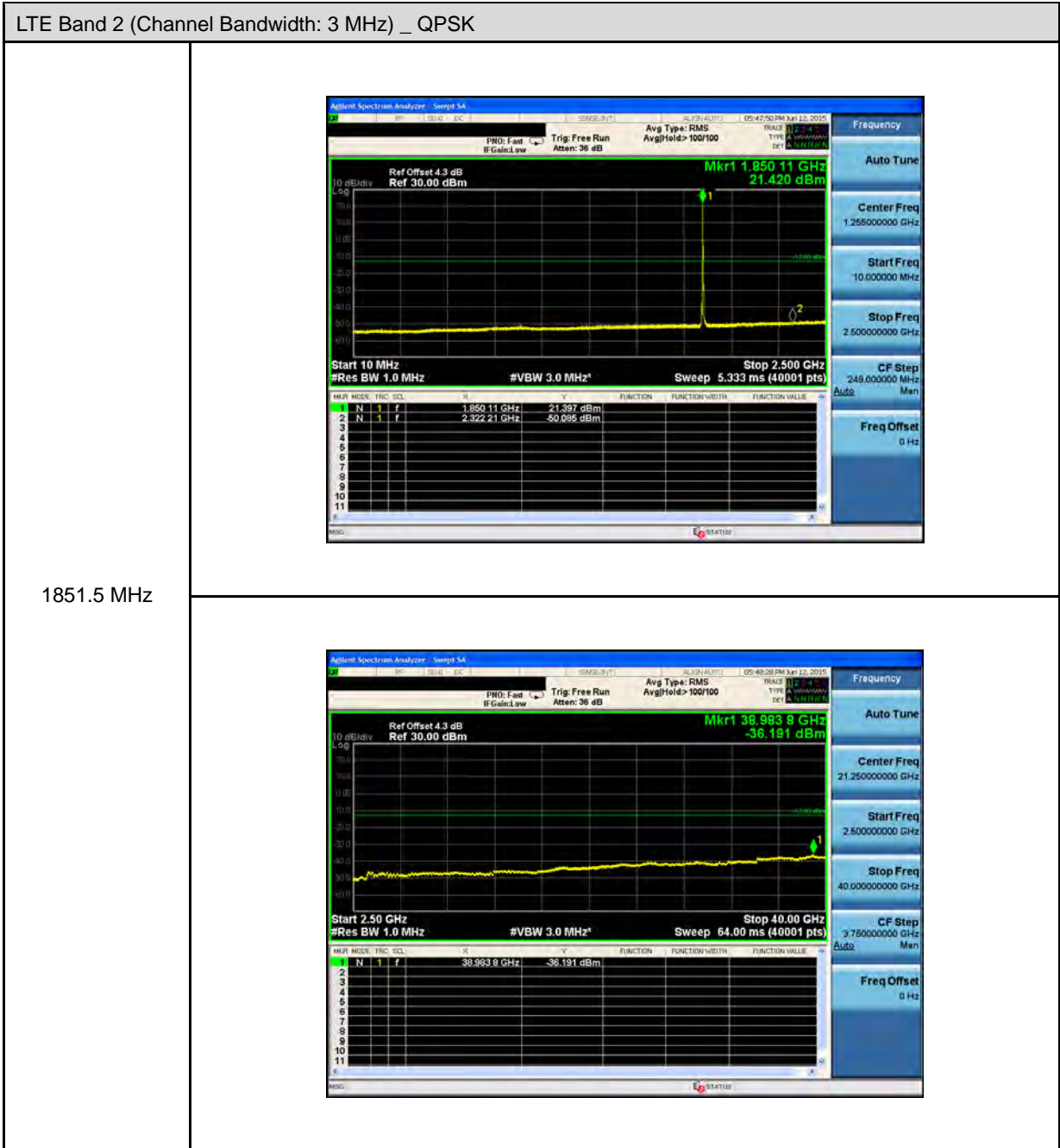
8.6. Test Graphs

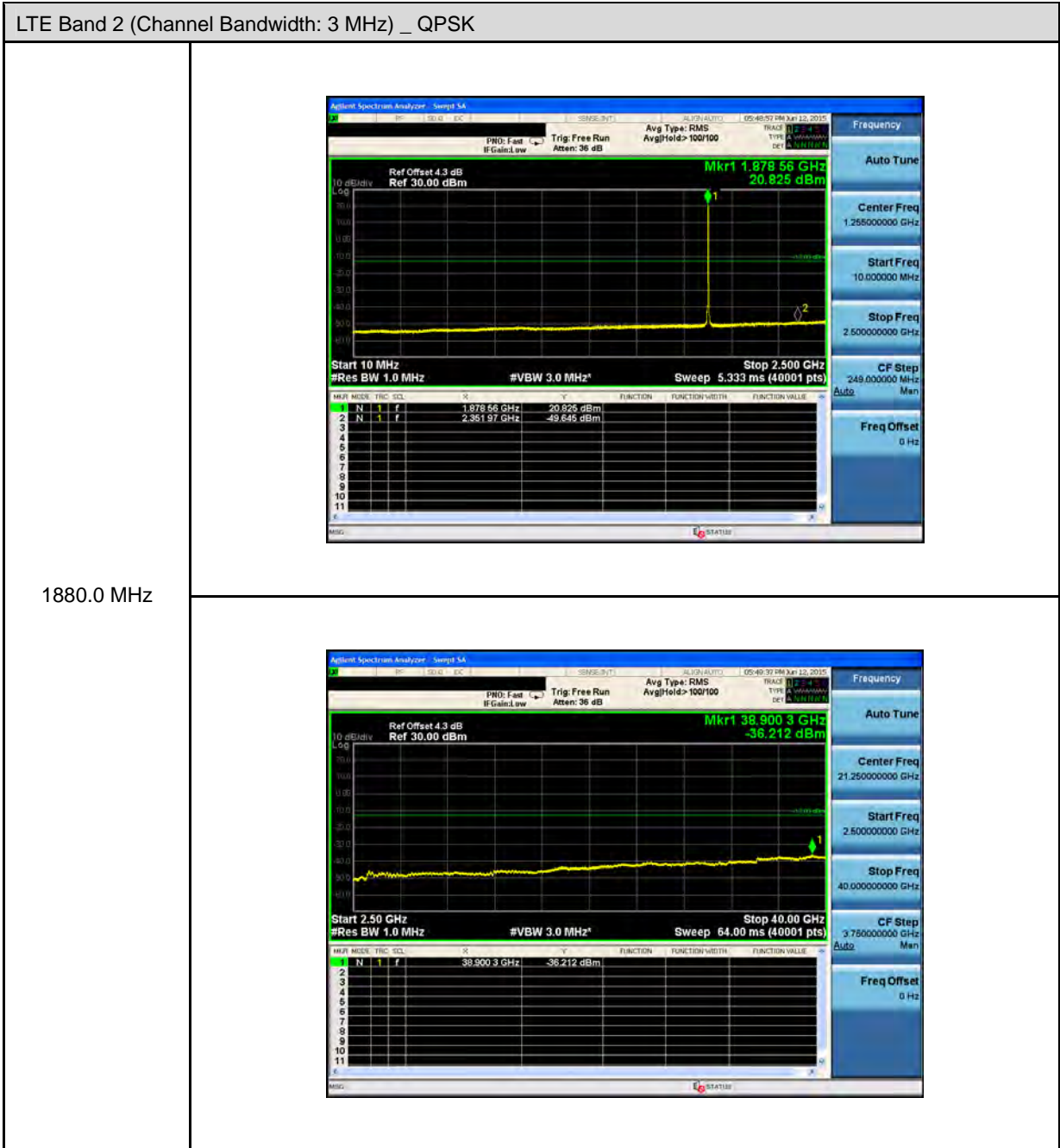
Conducted Emission

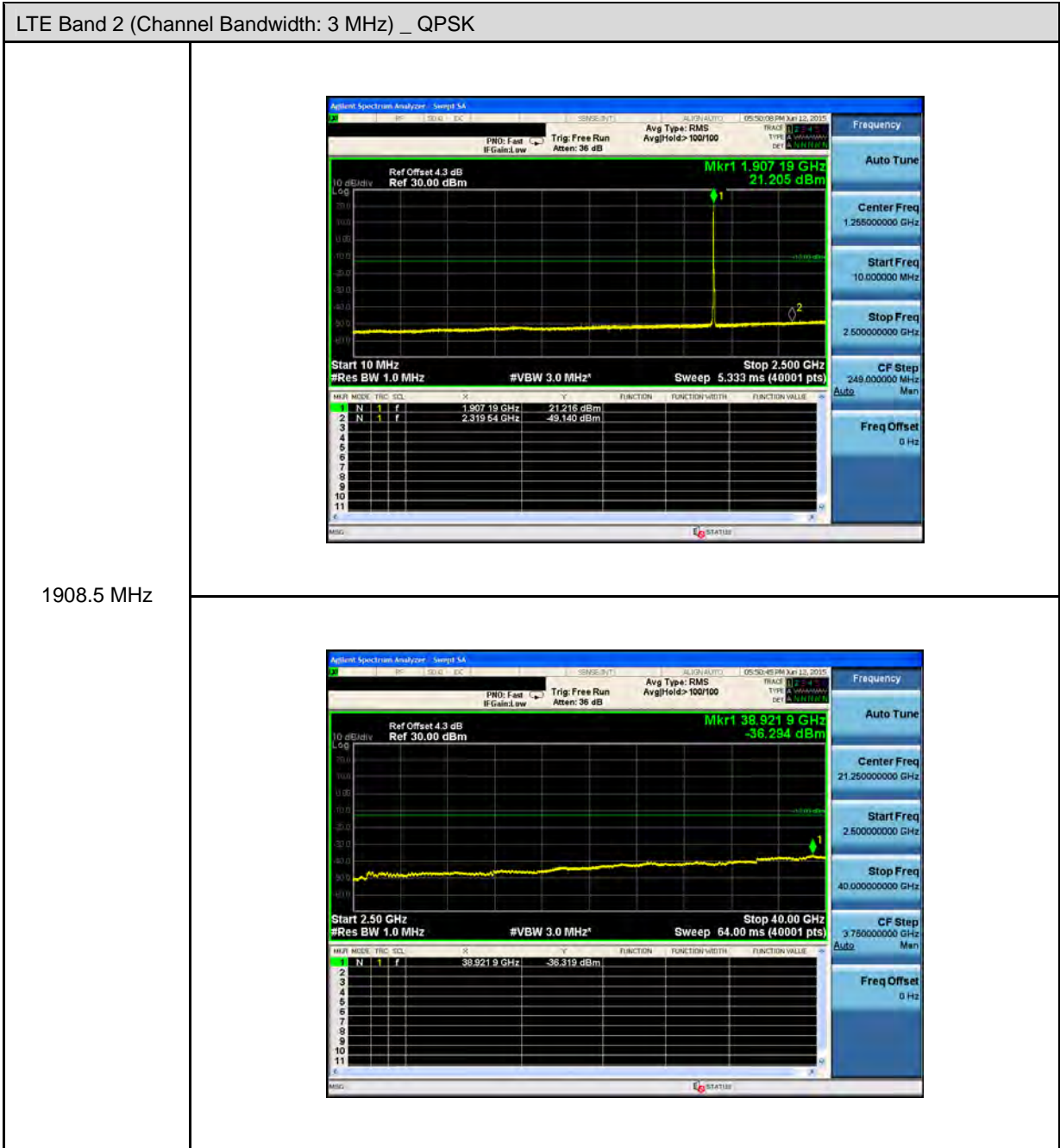


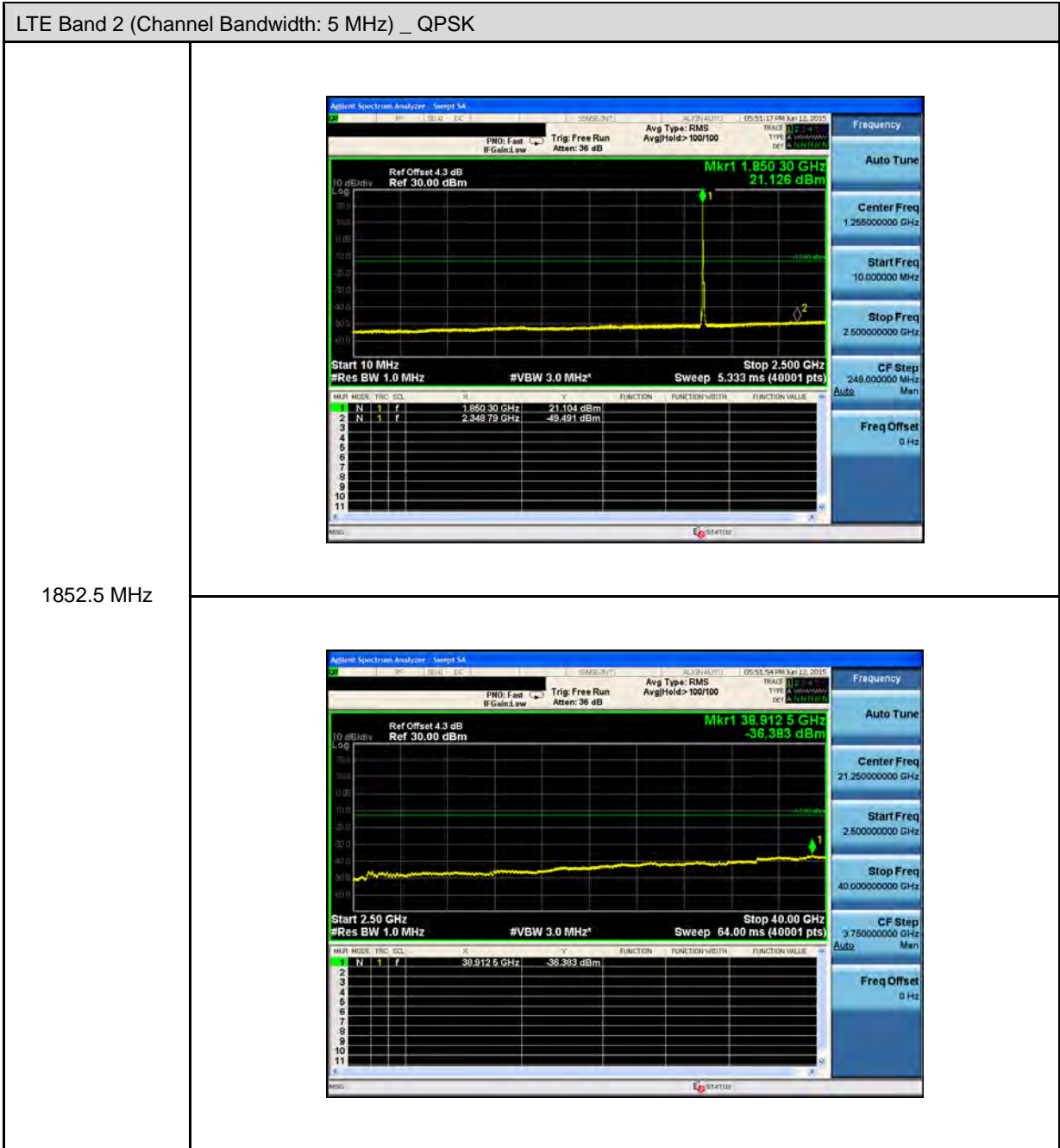


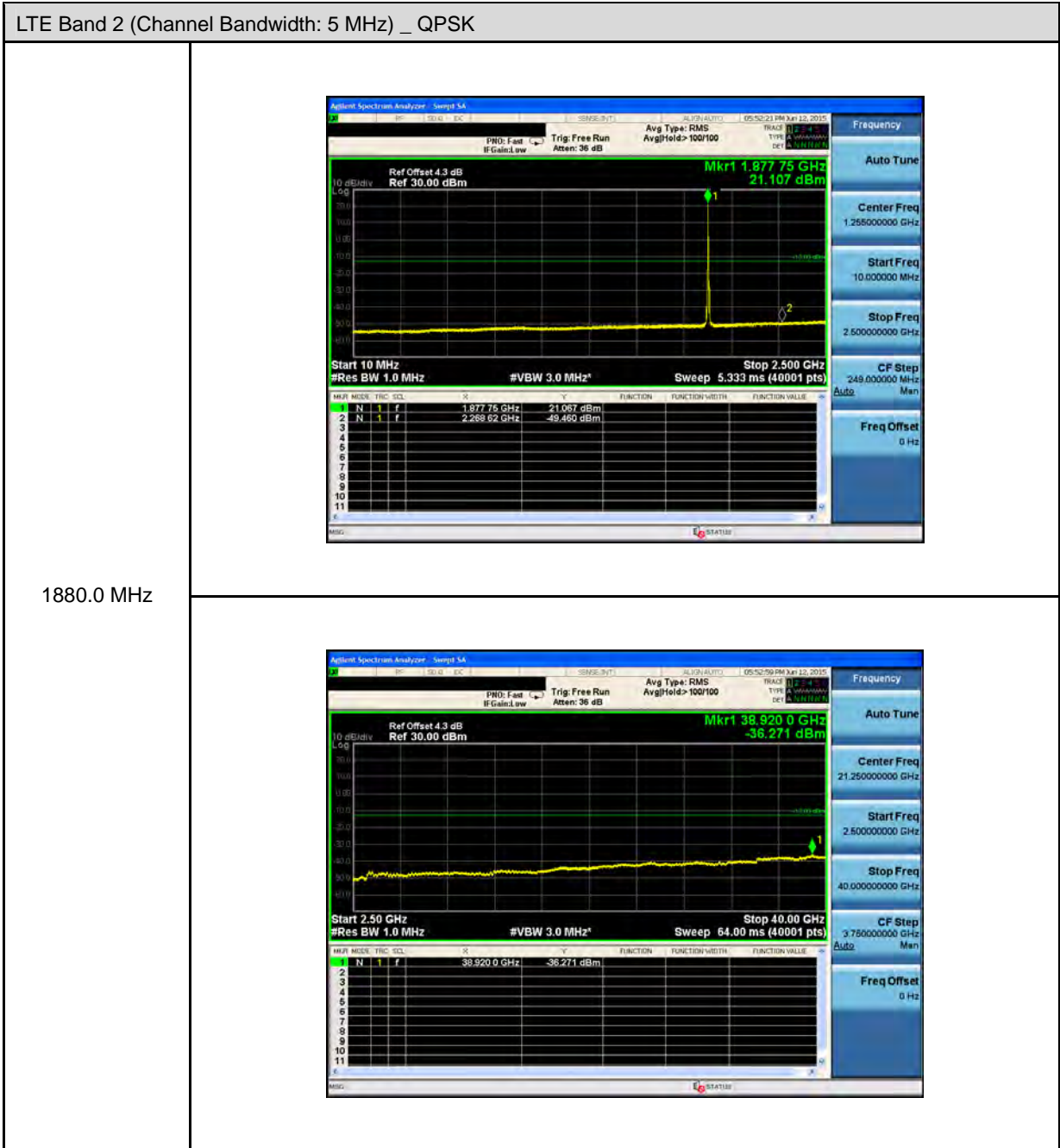


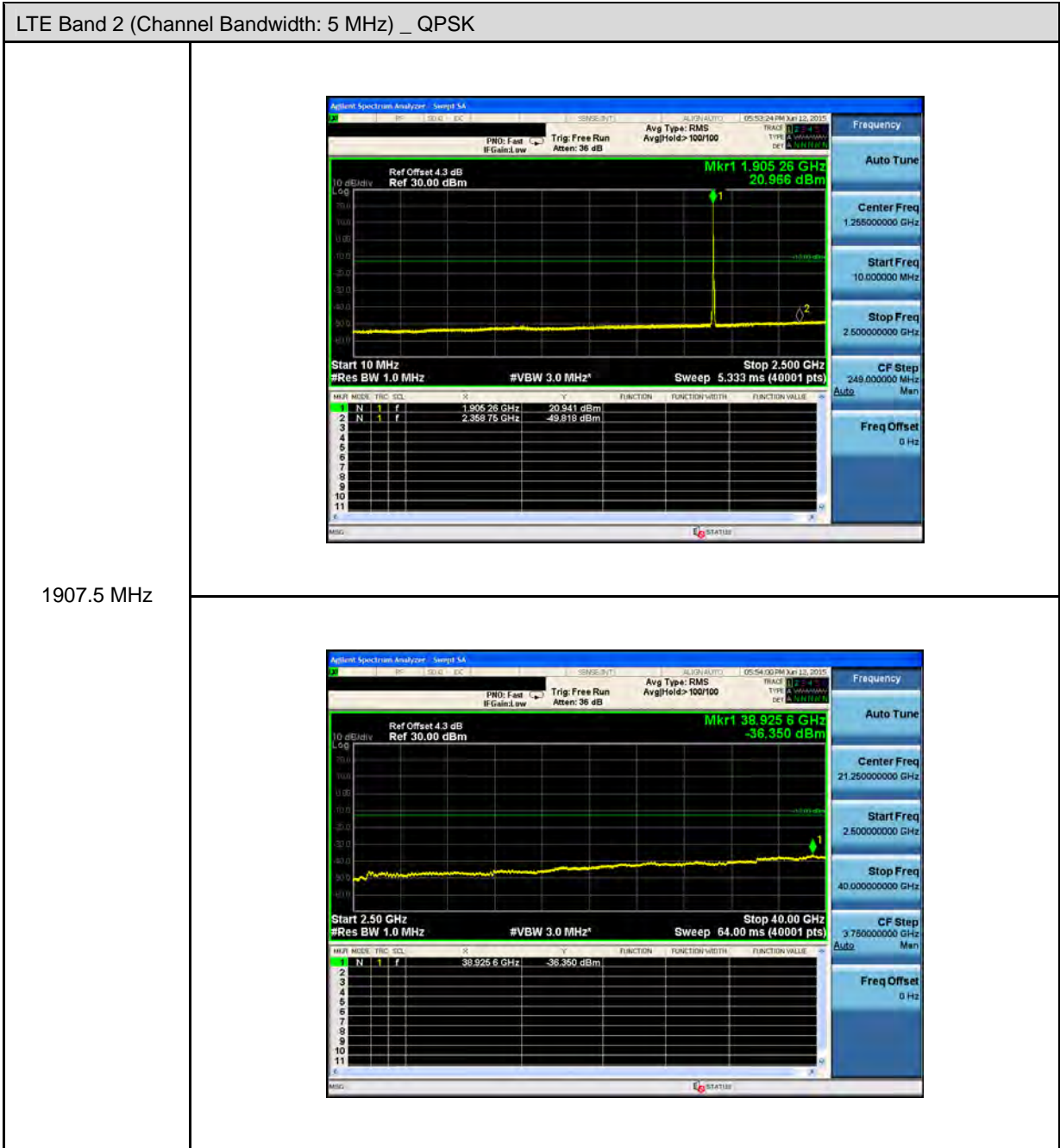


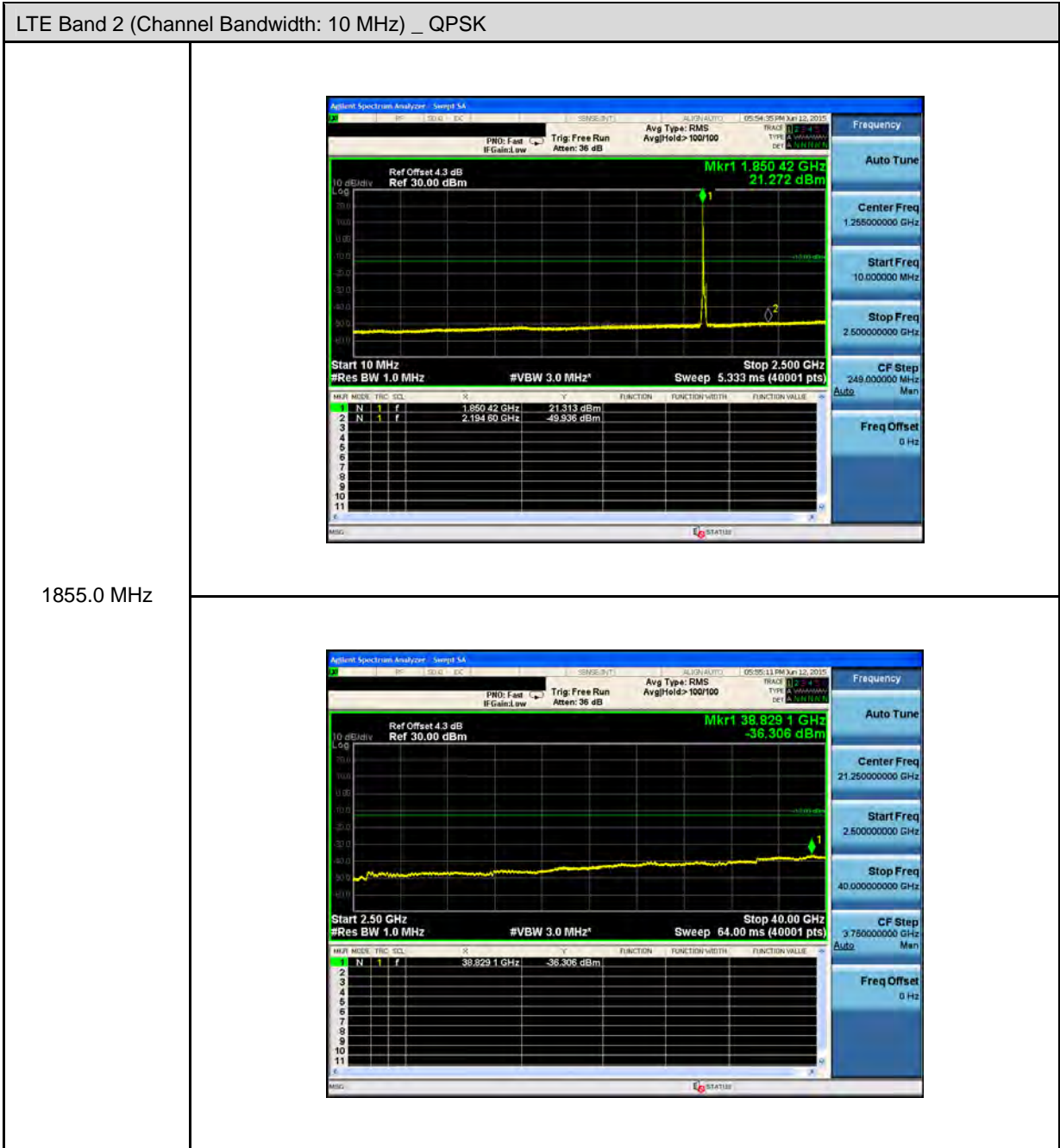


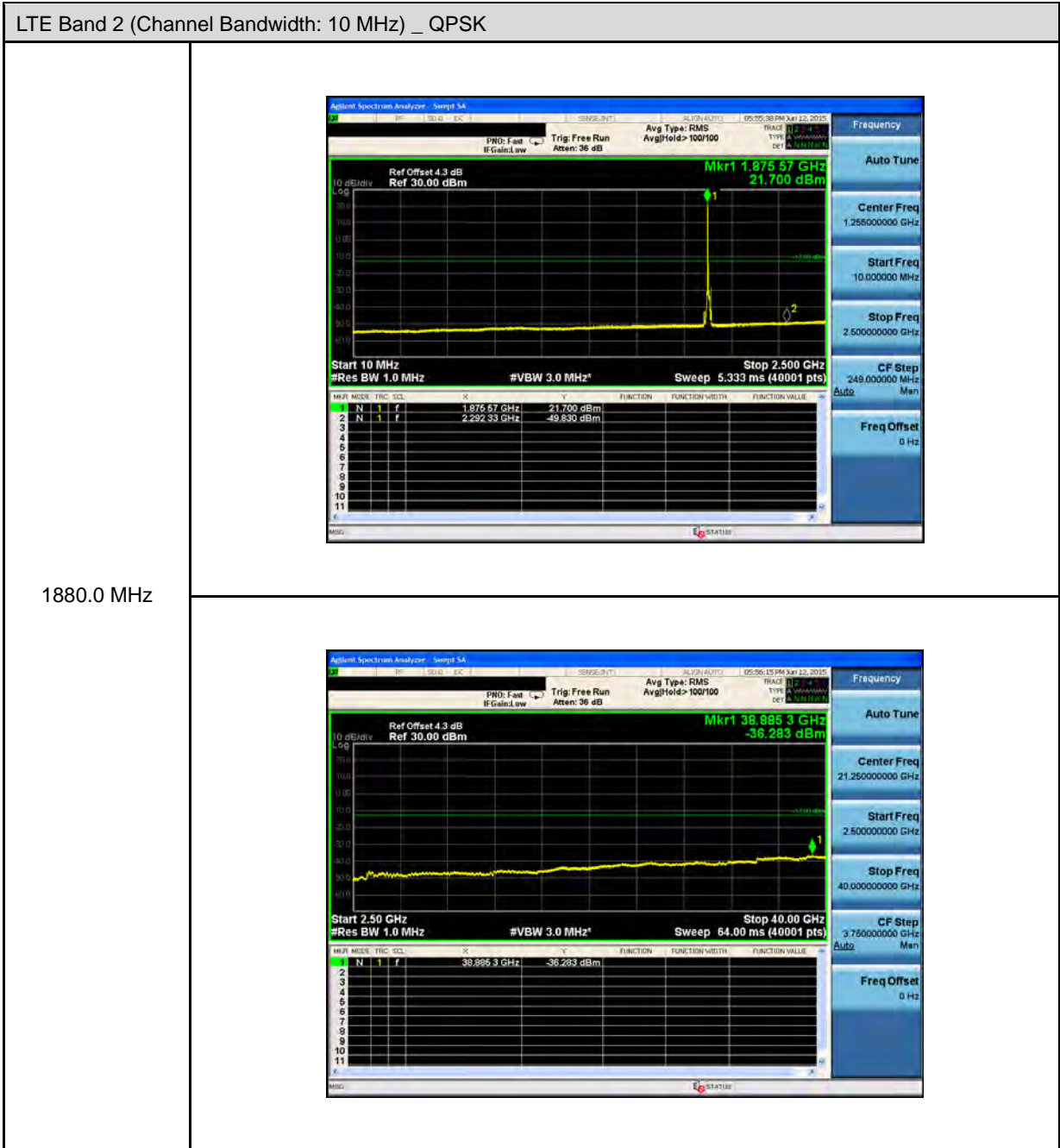


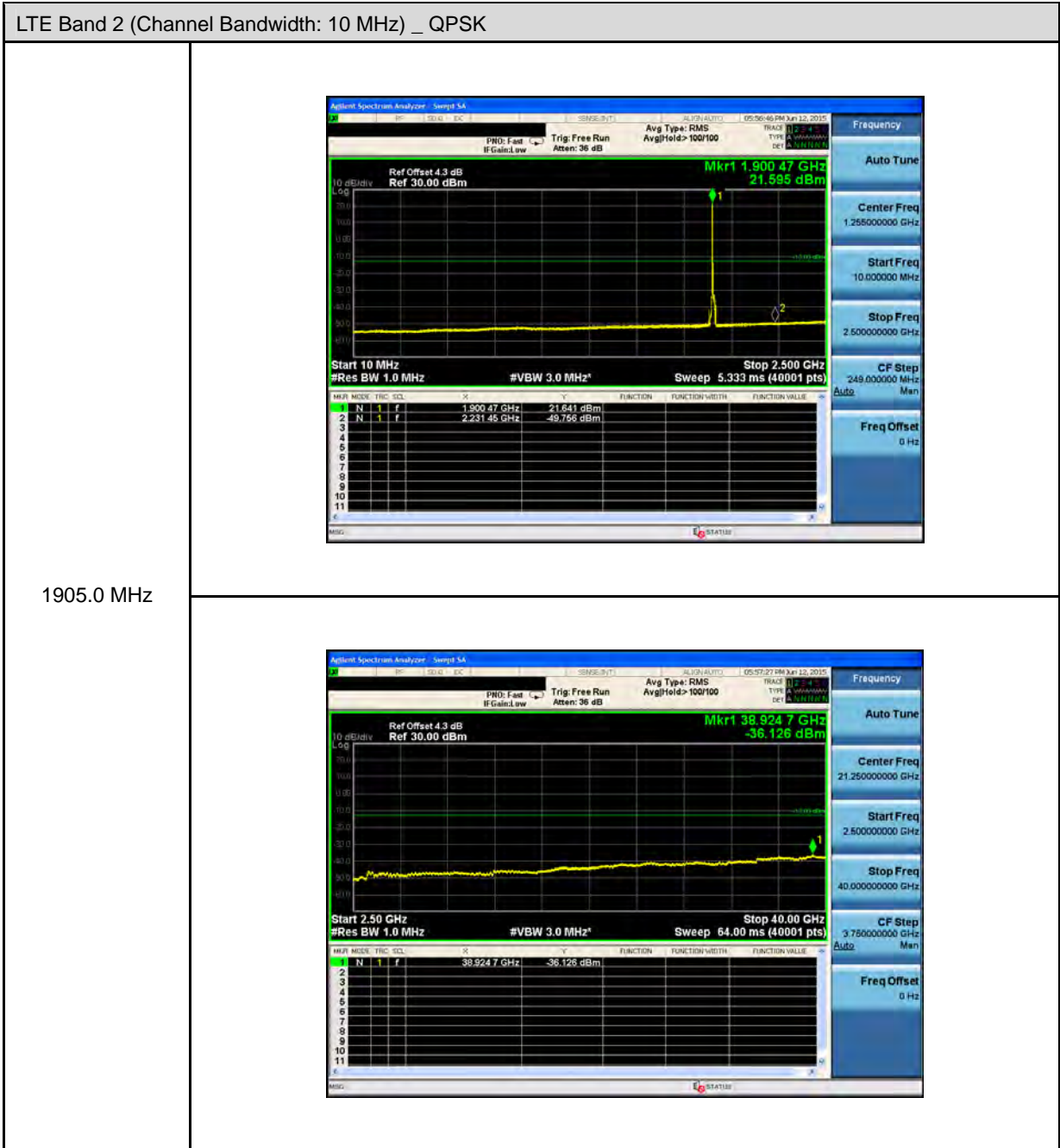


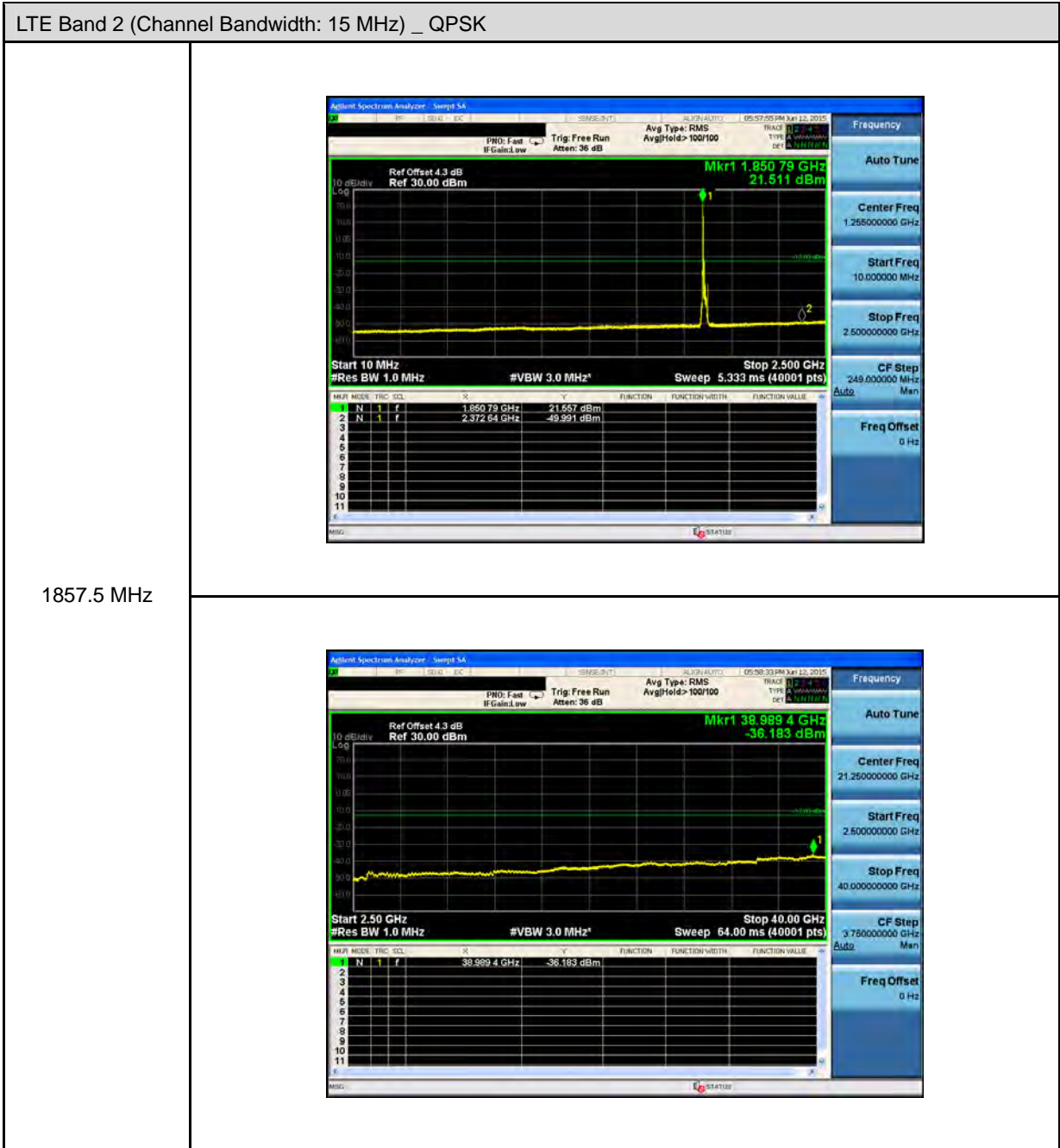


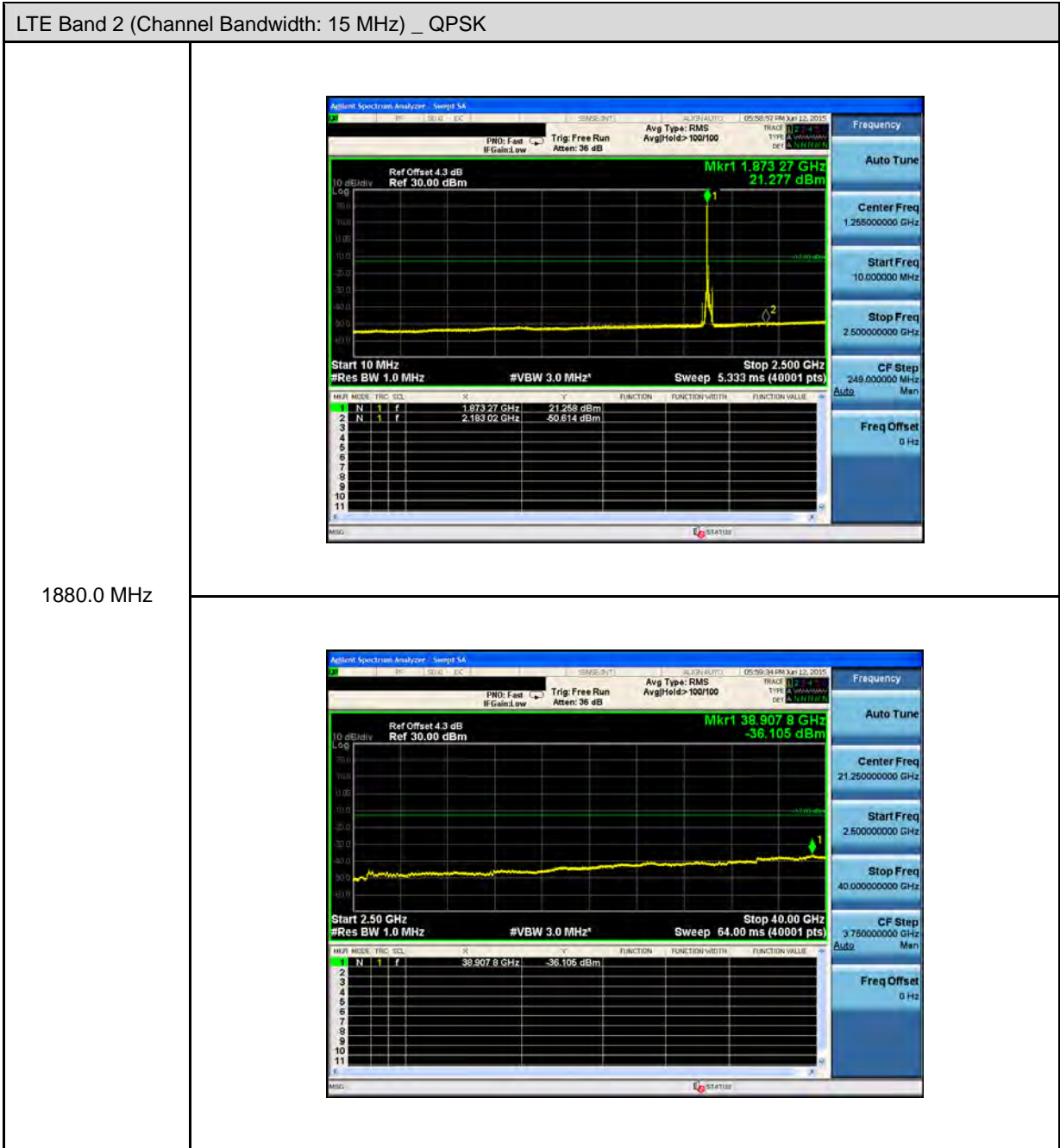


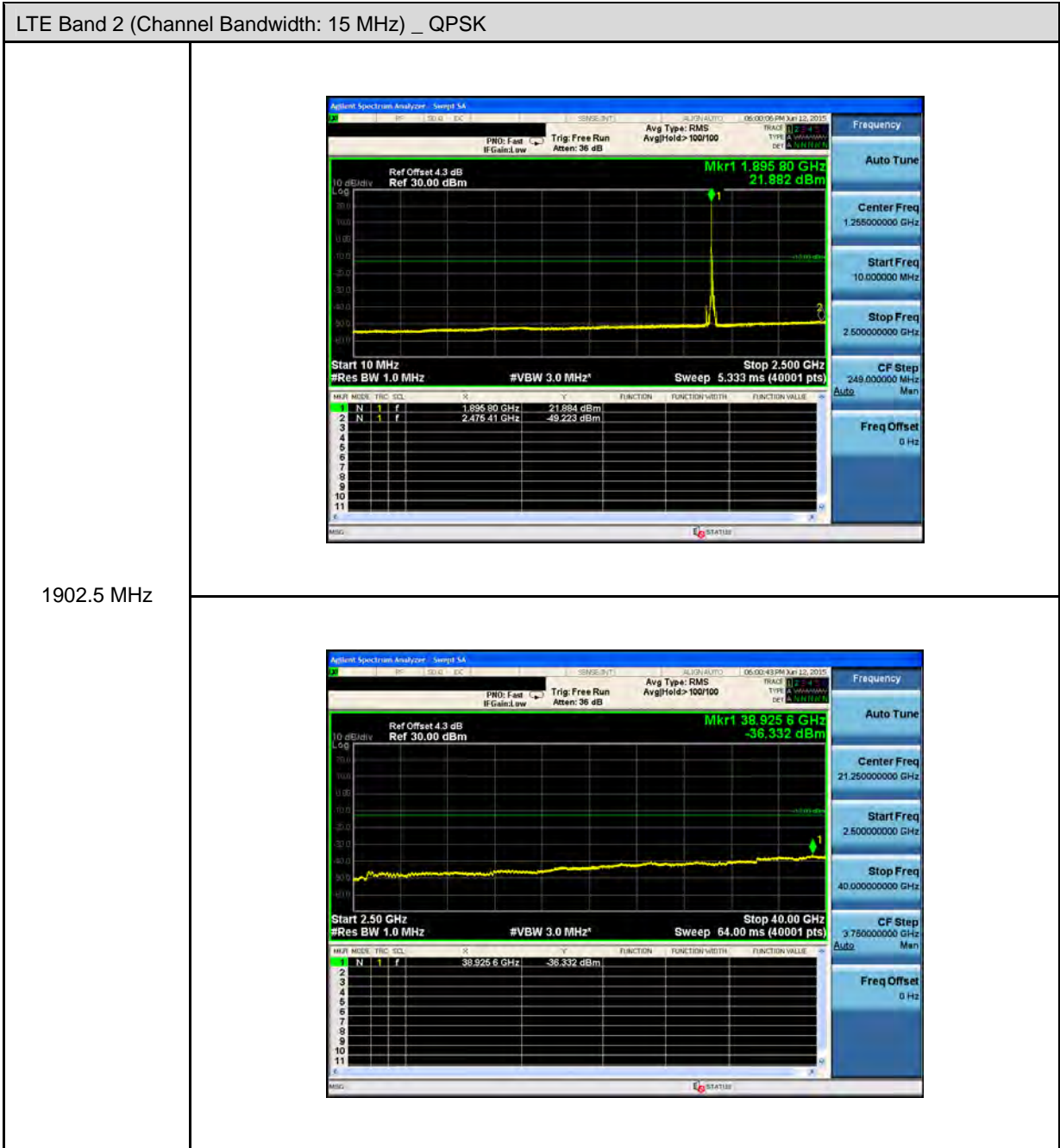


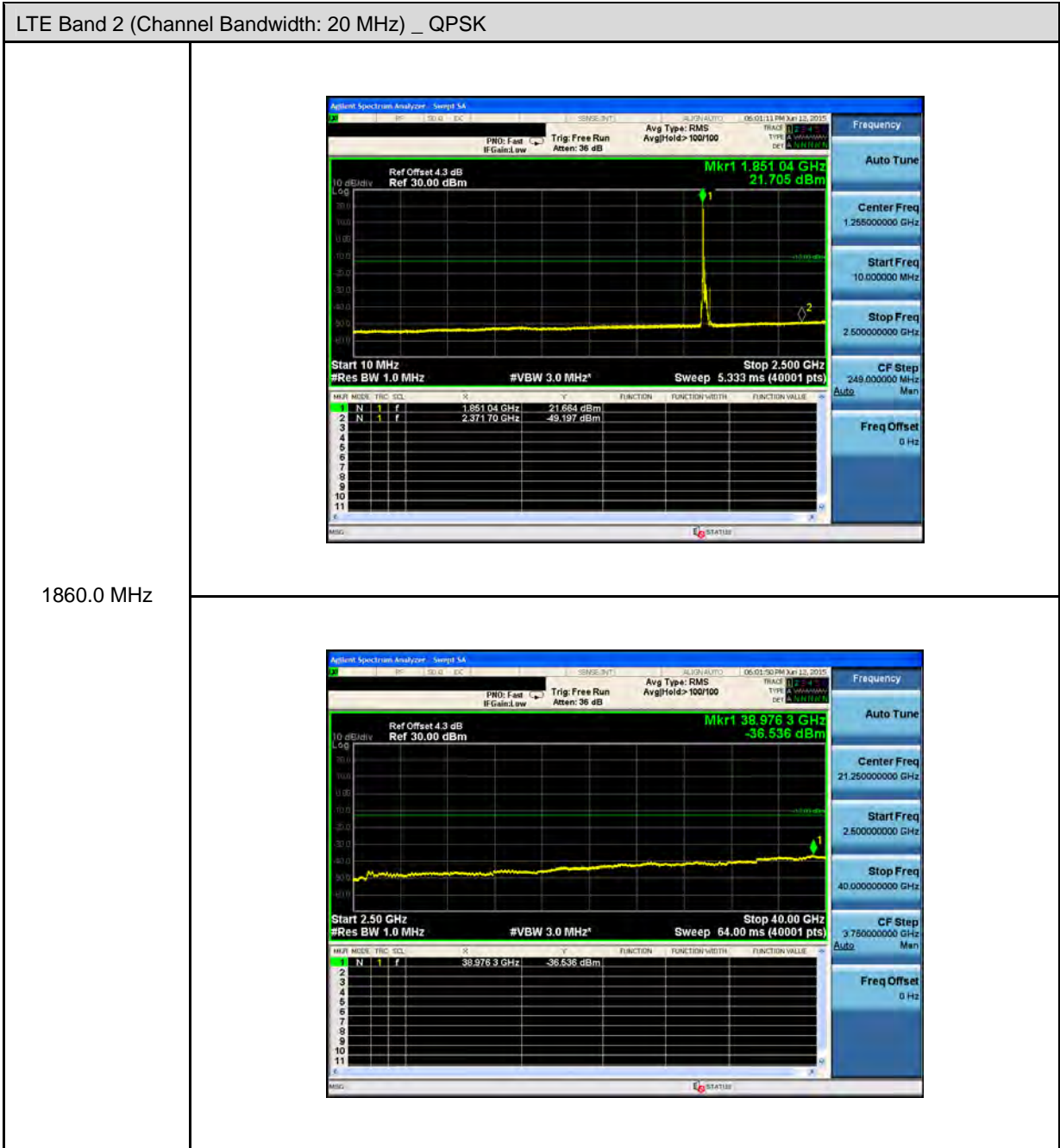


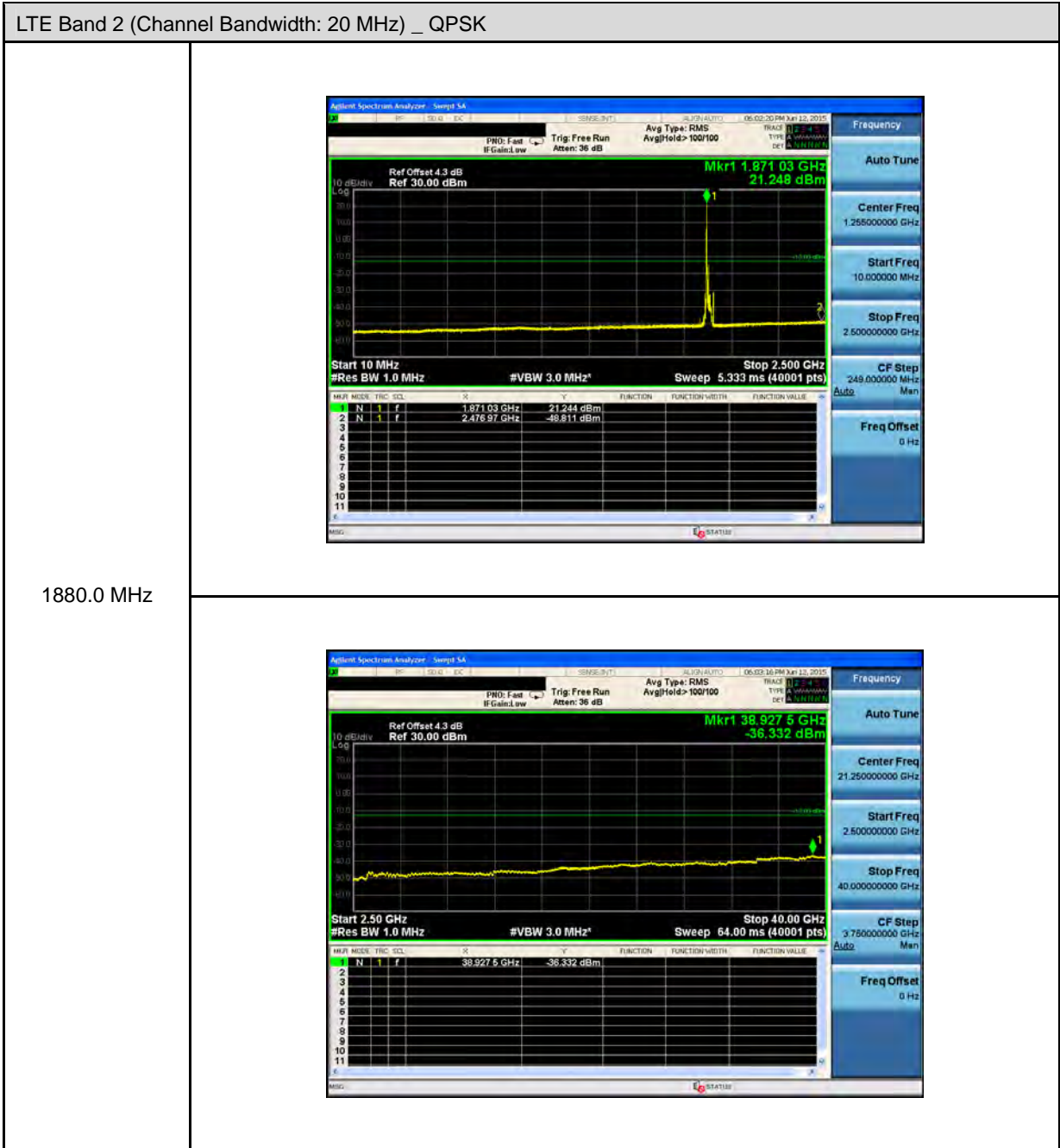


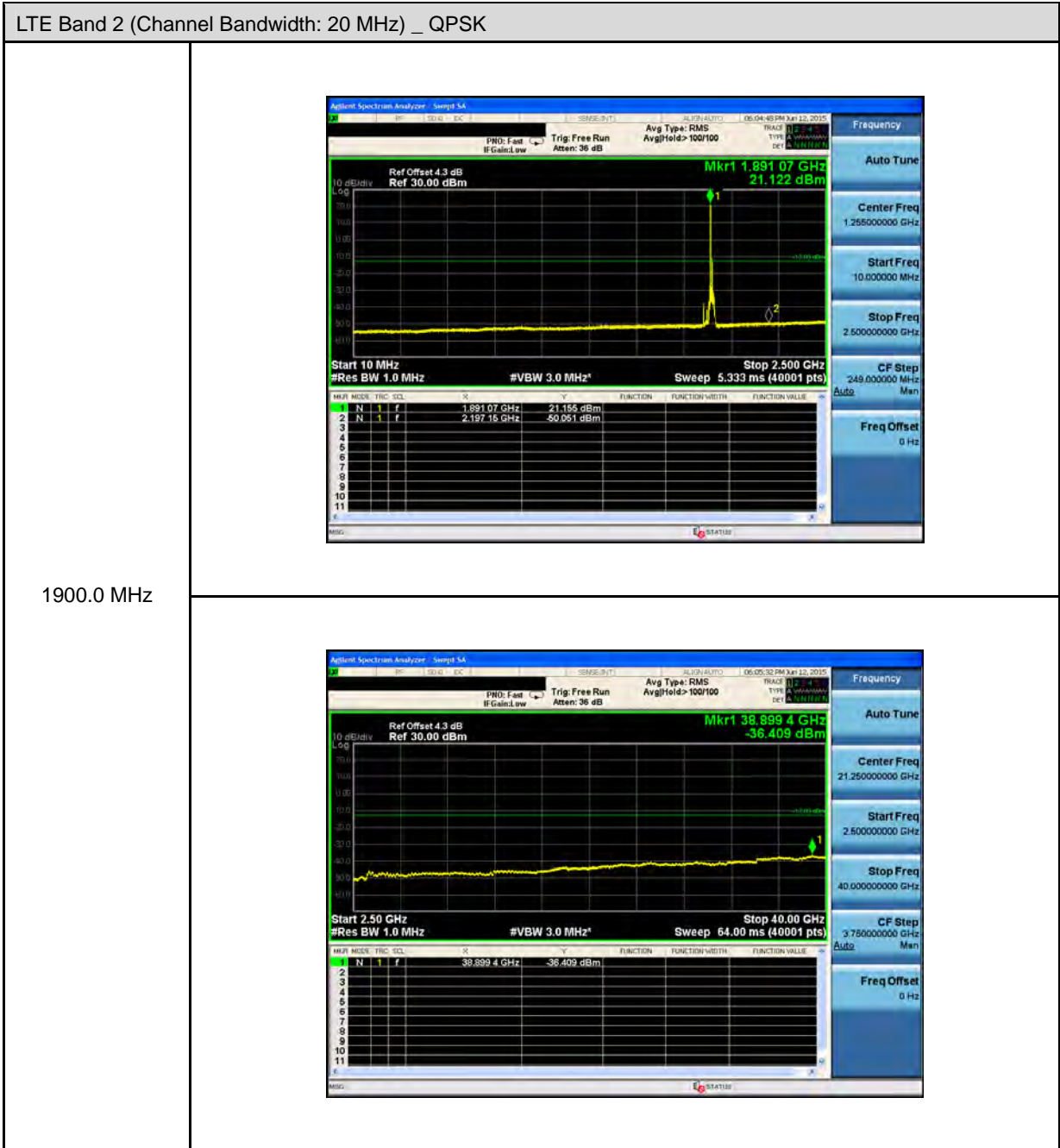


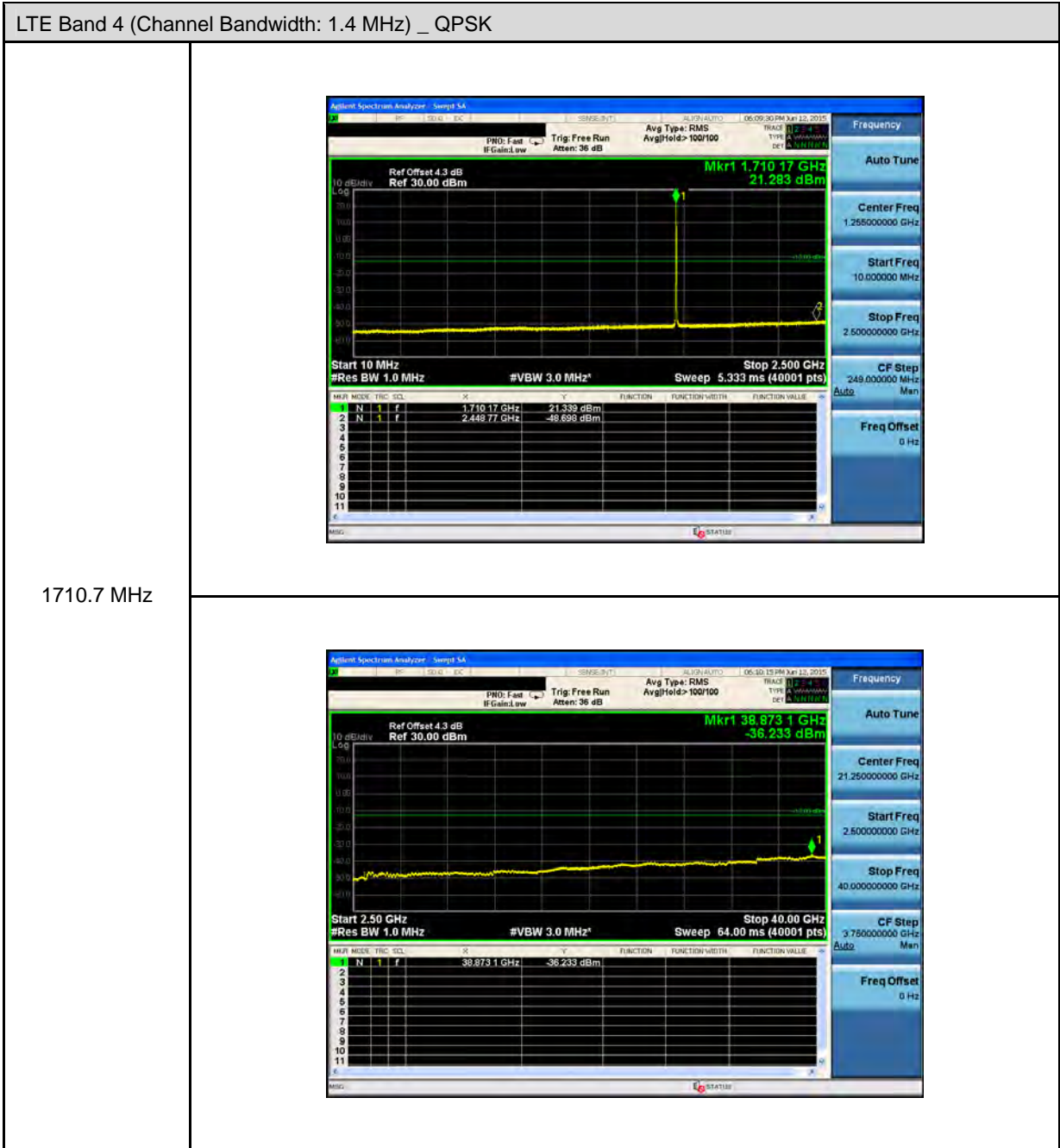


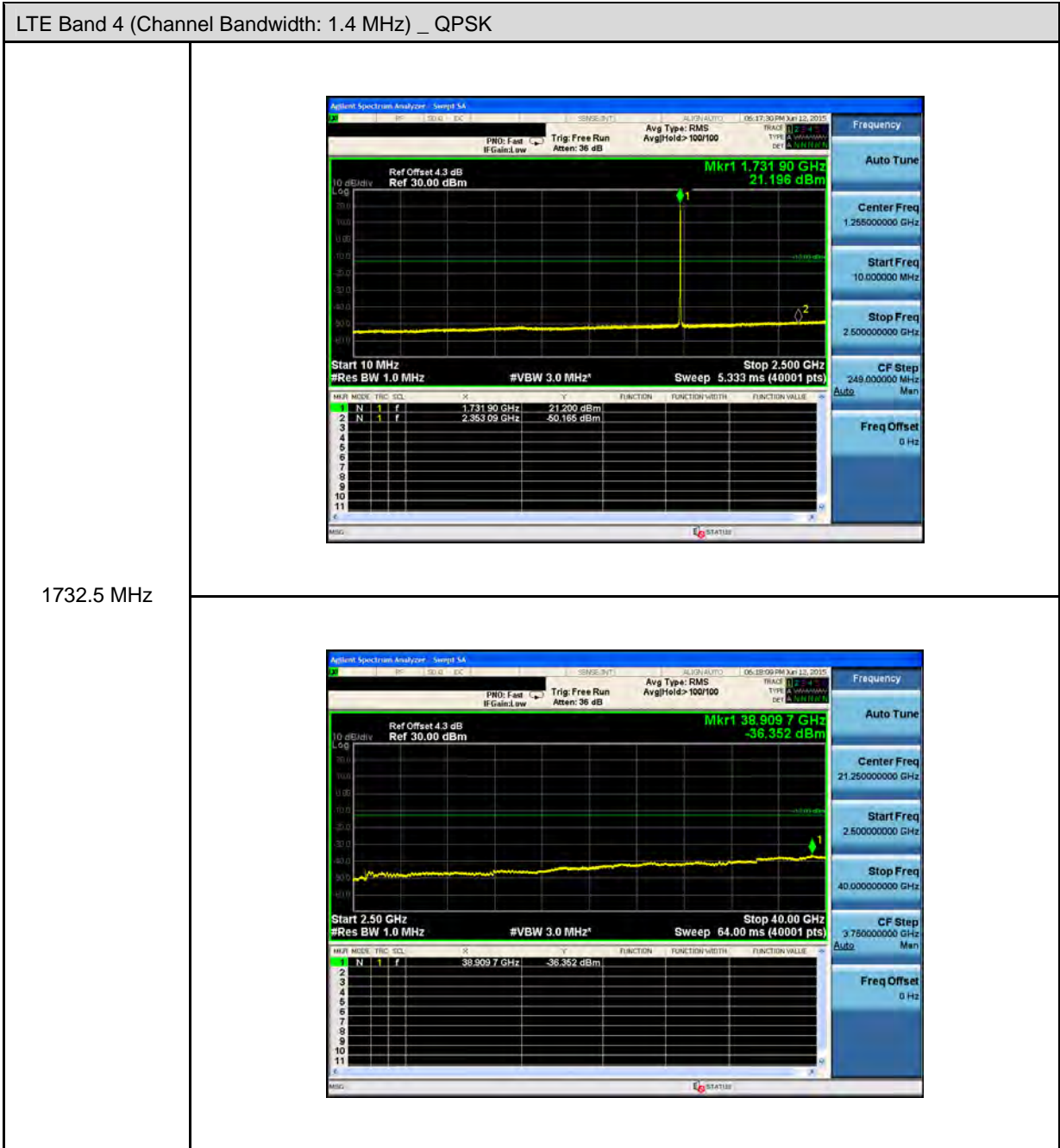


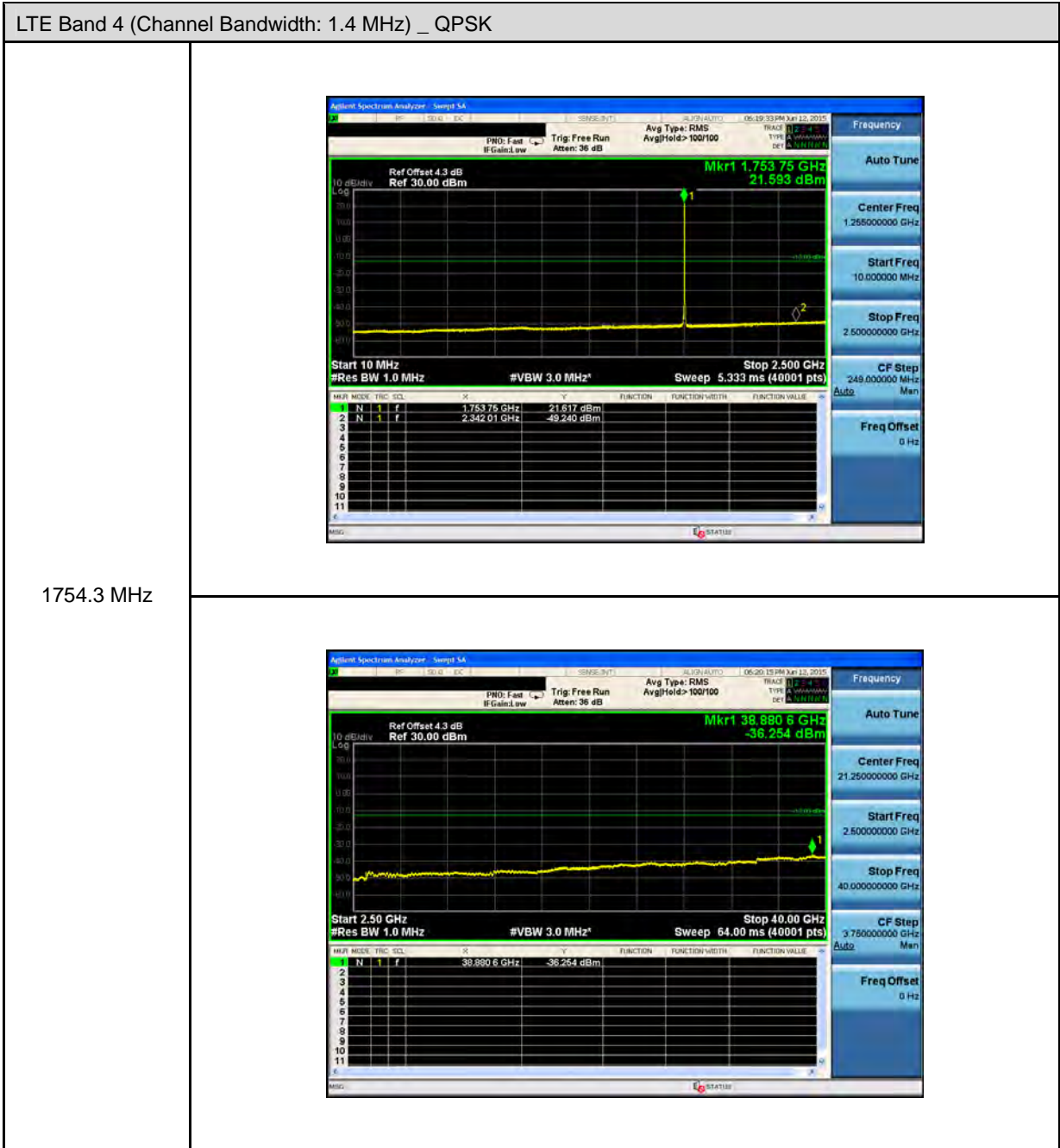


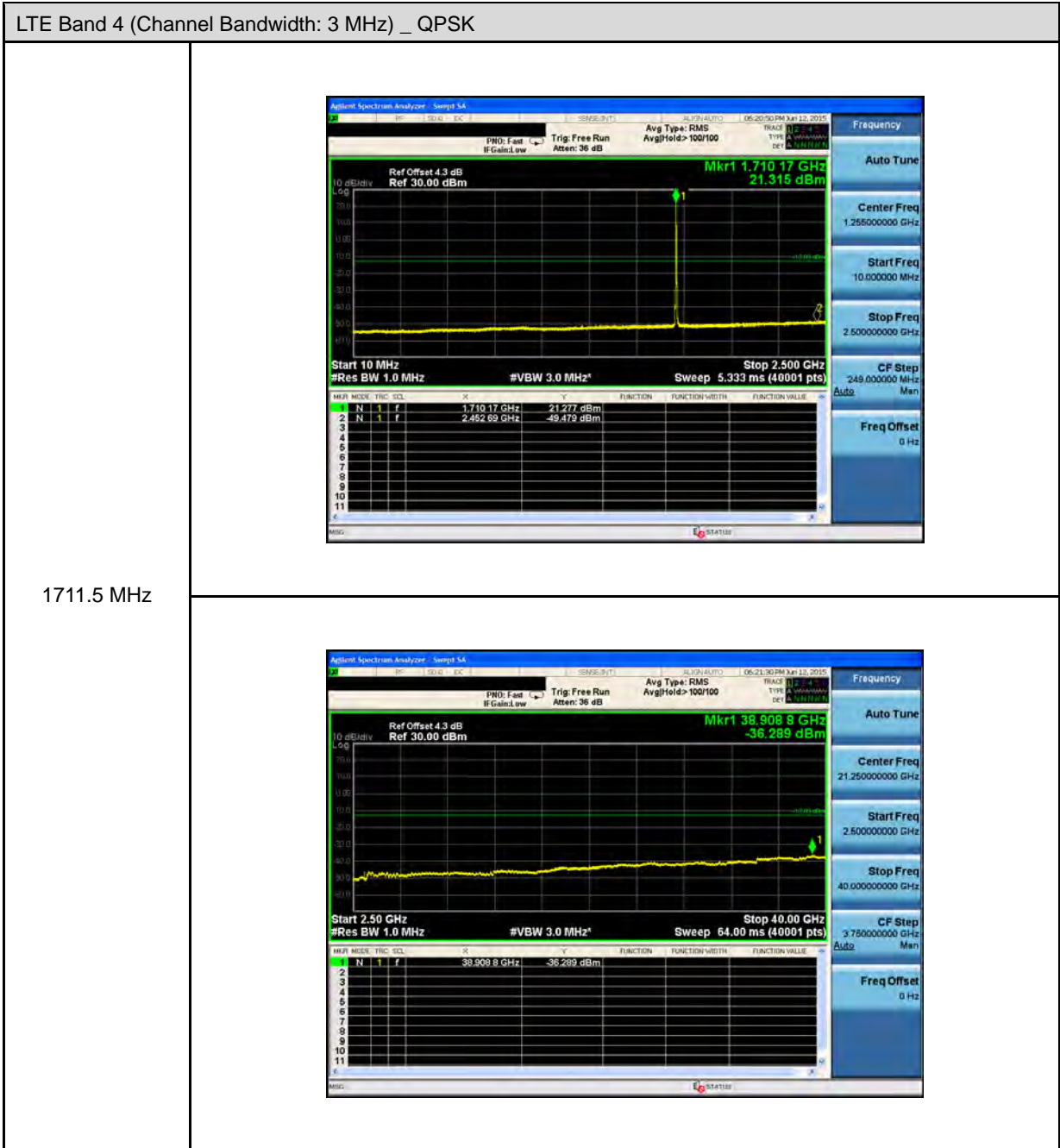


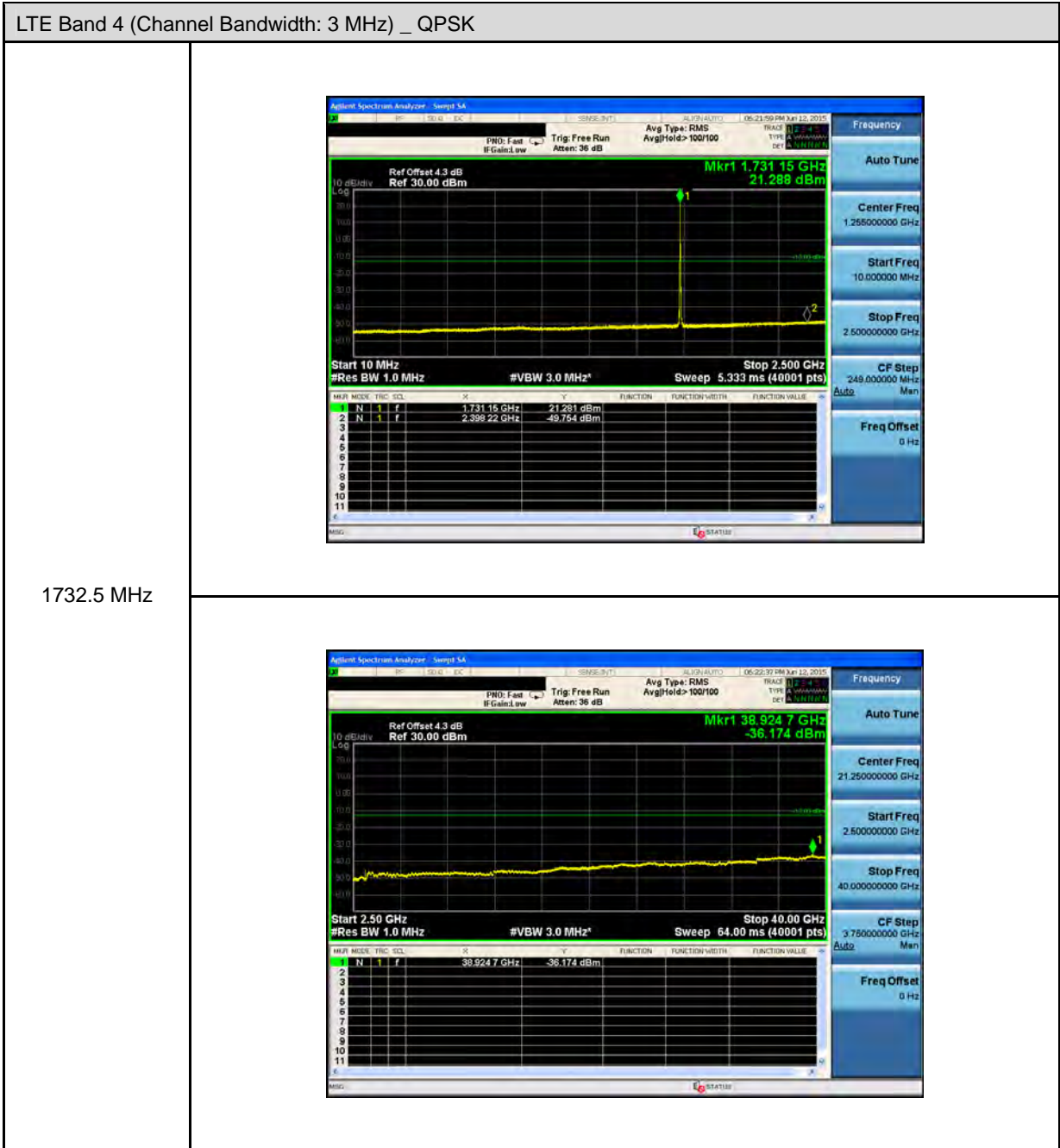


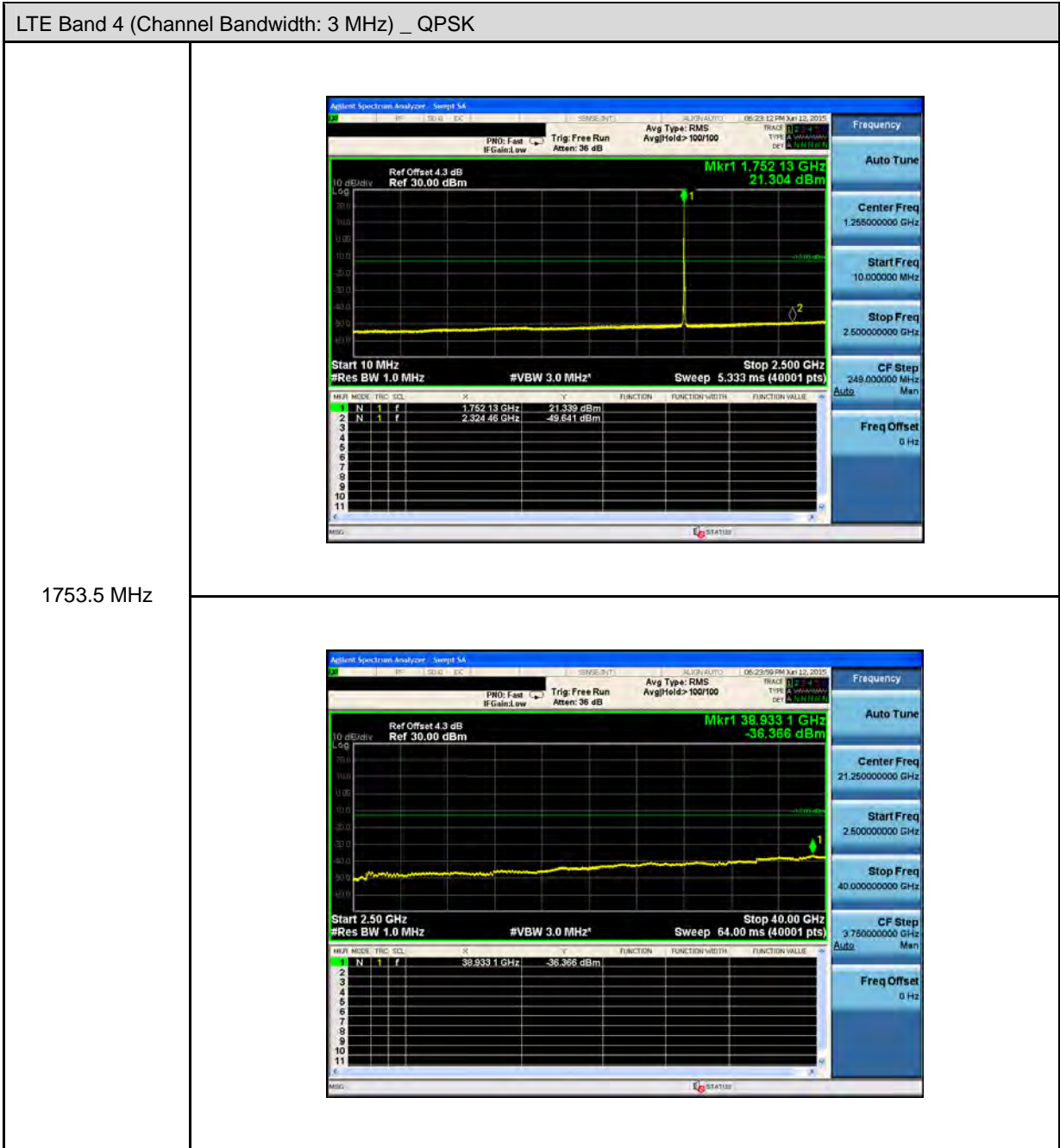


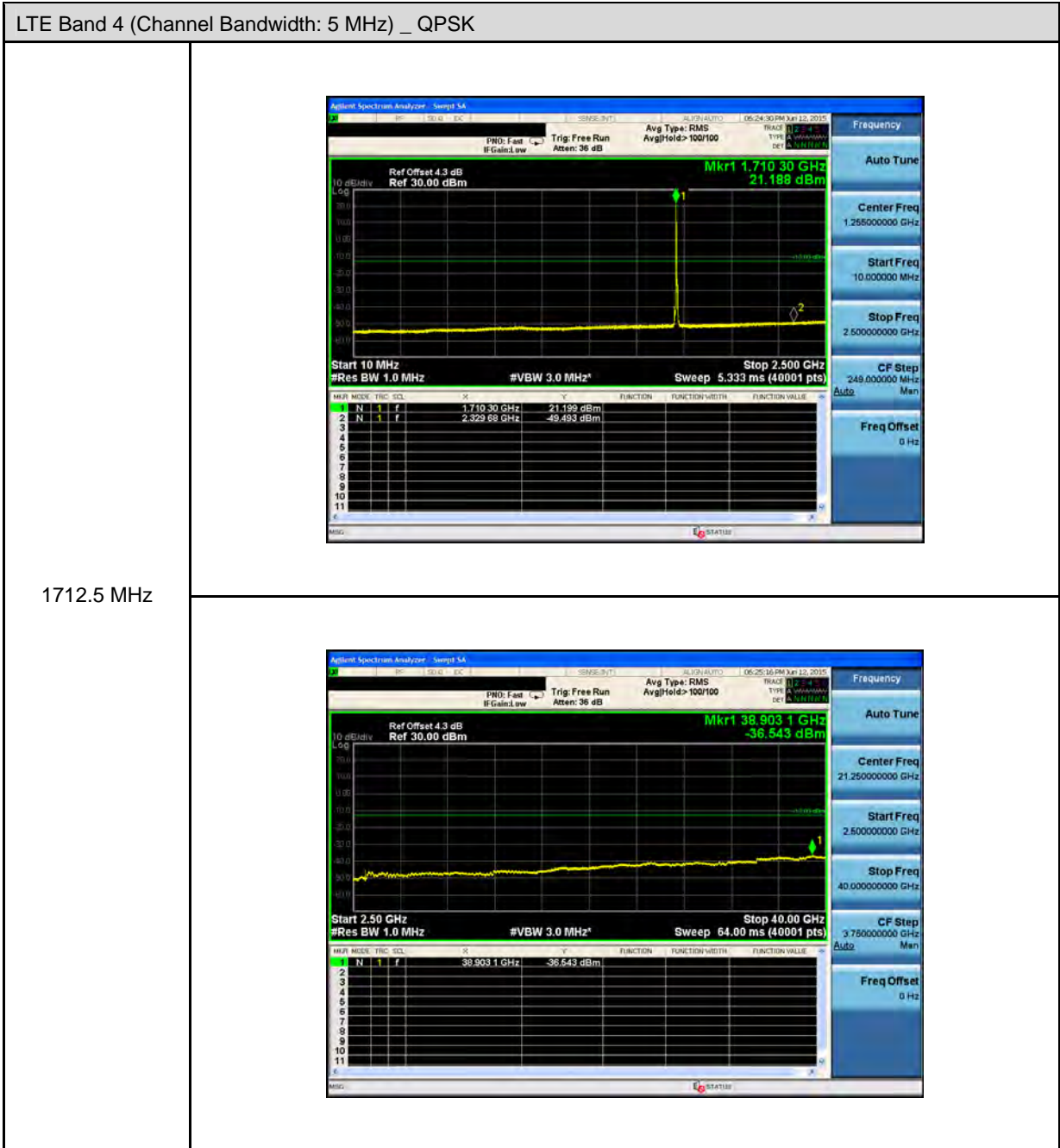


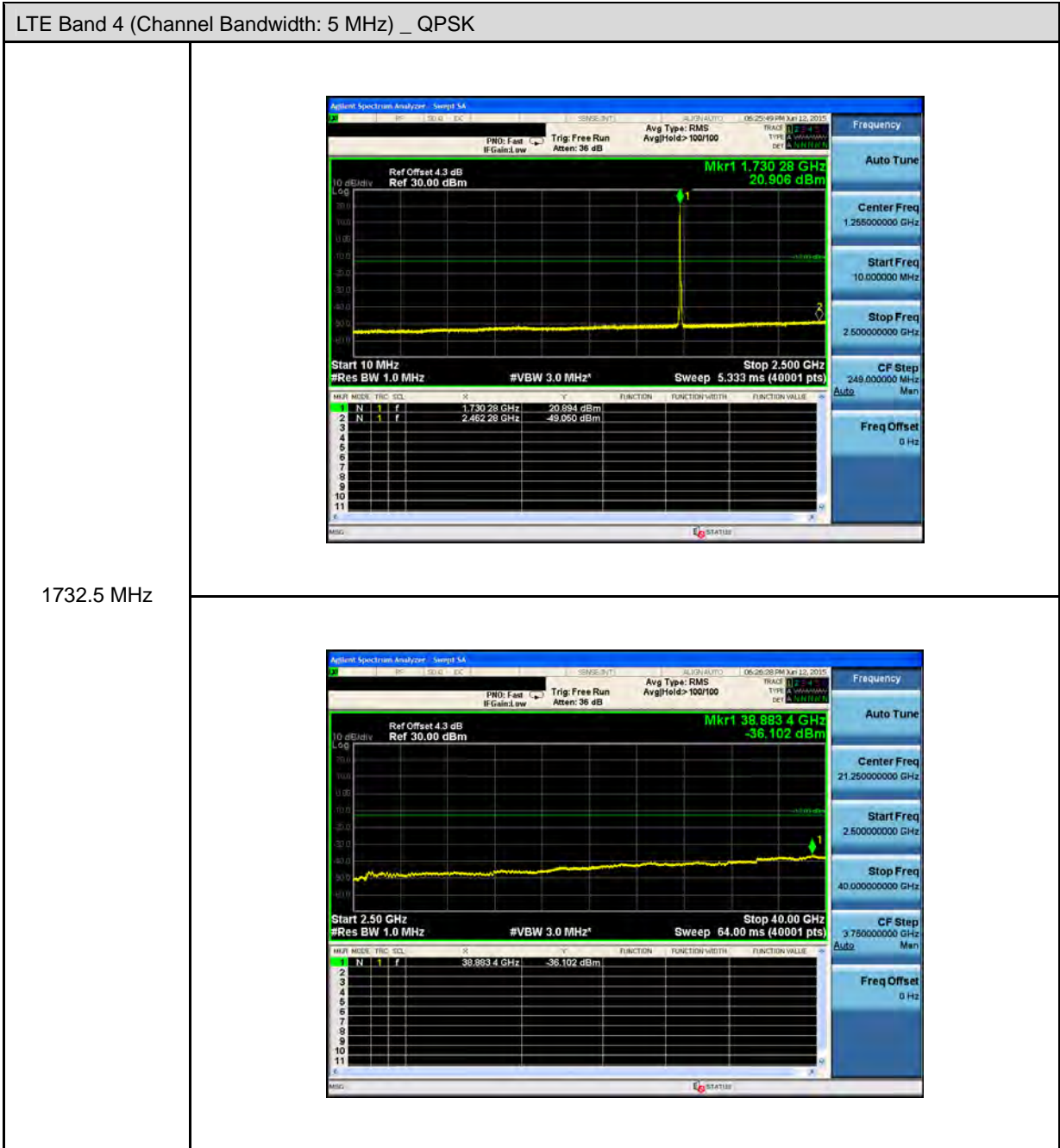


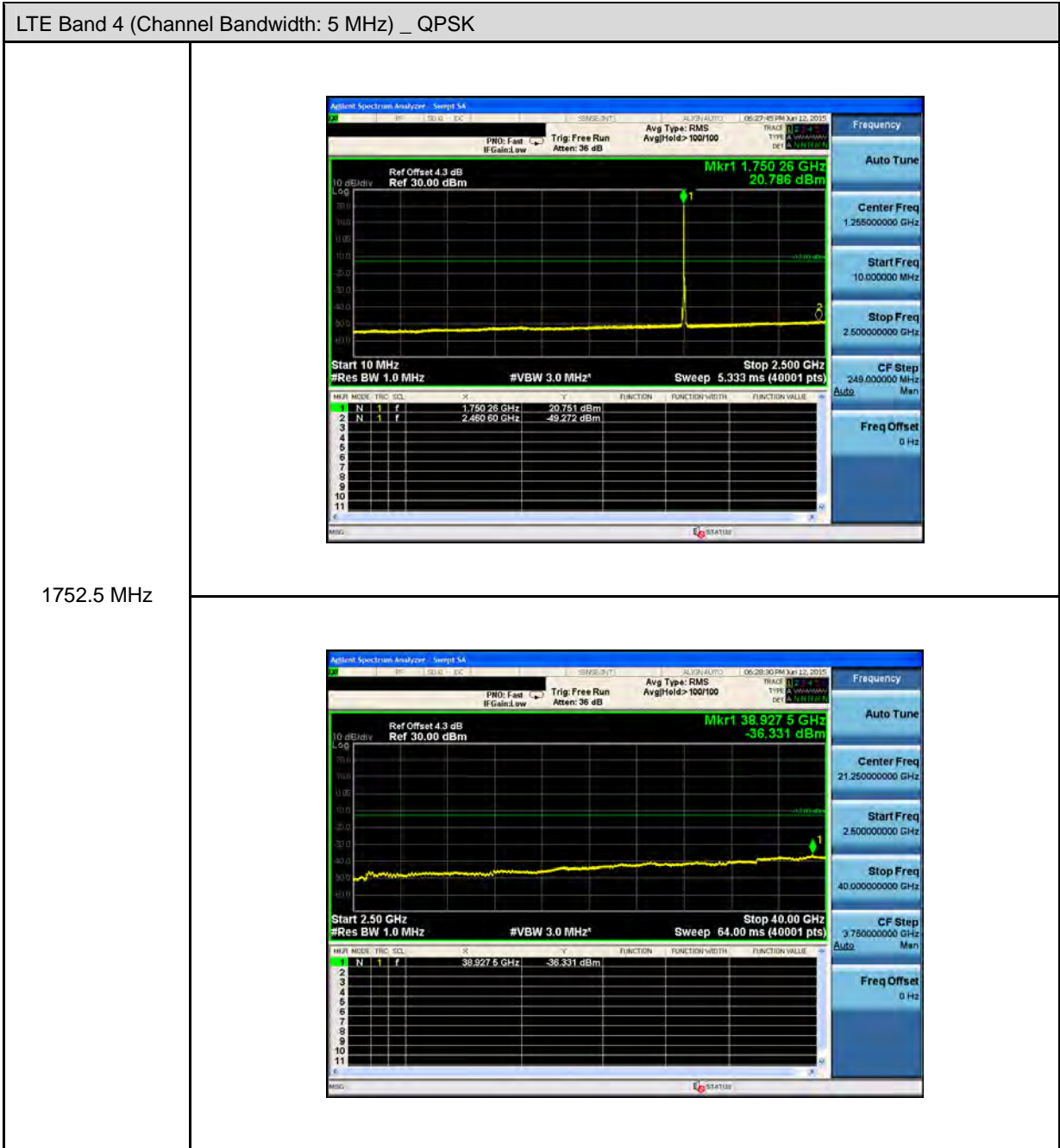


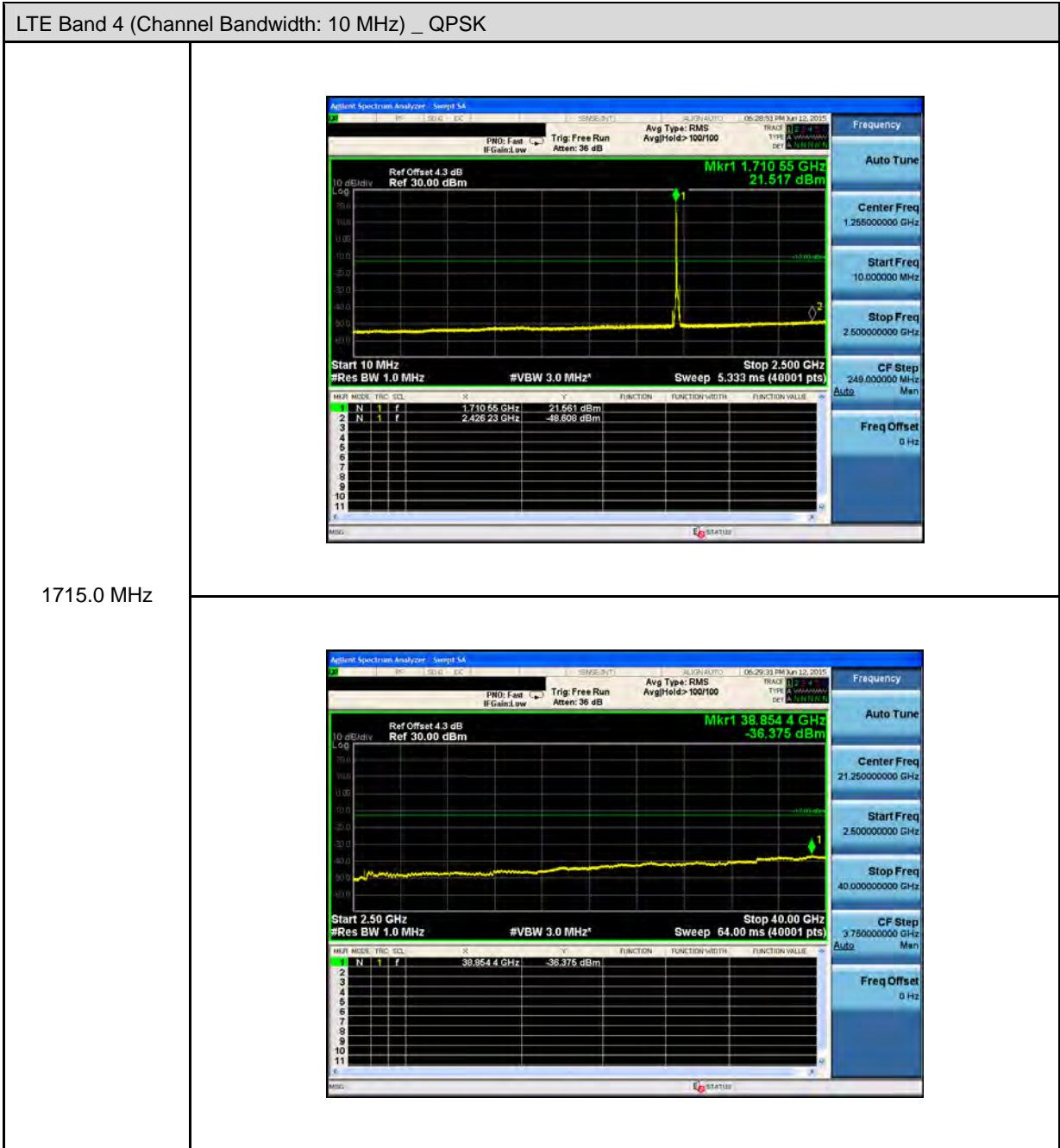


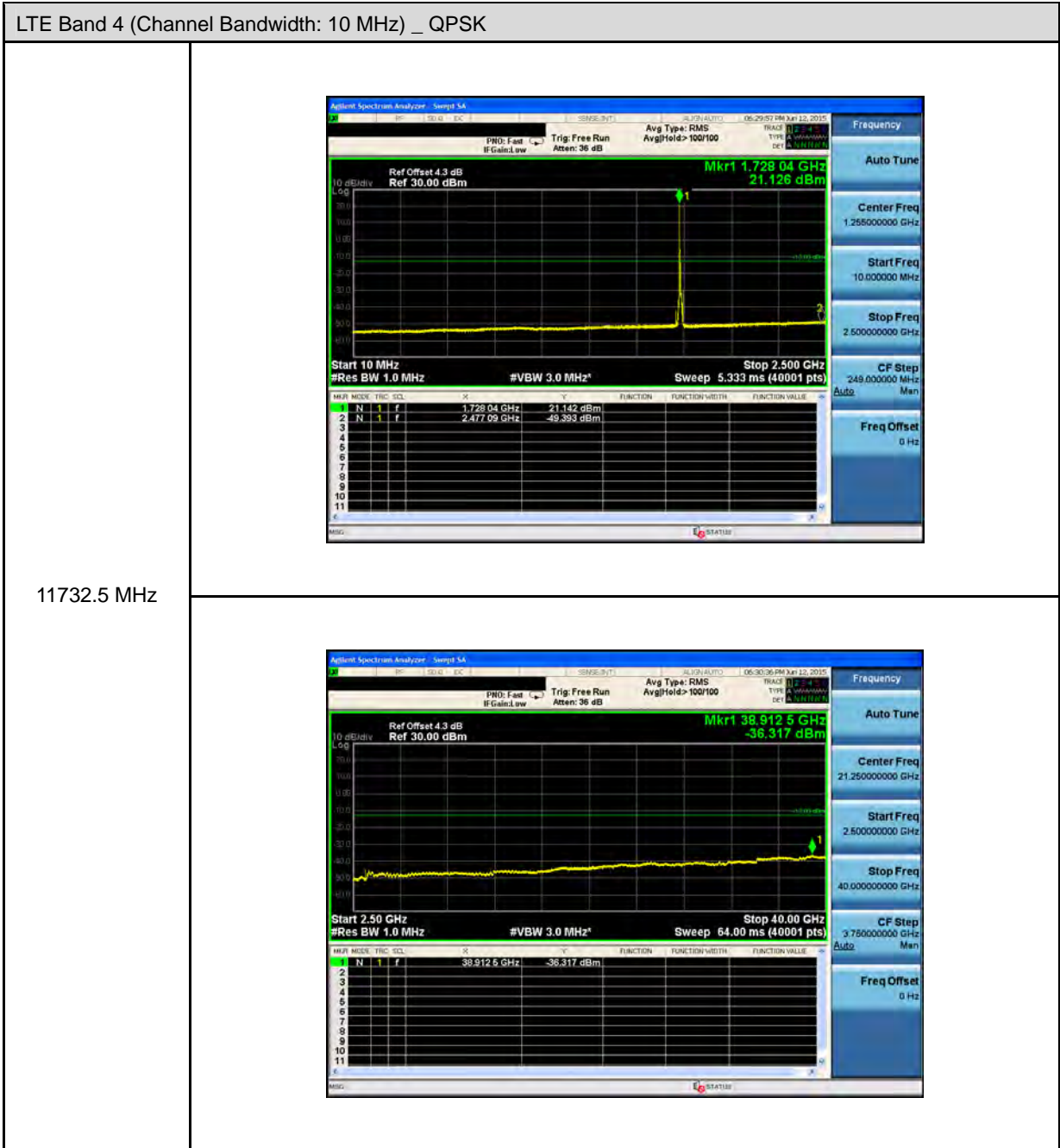


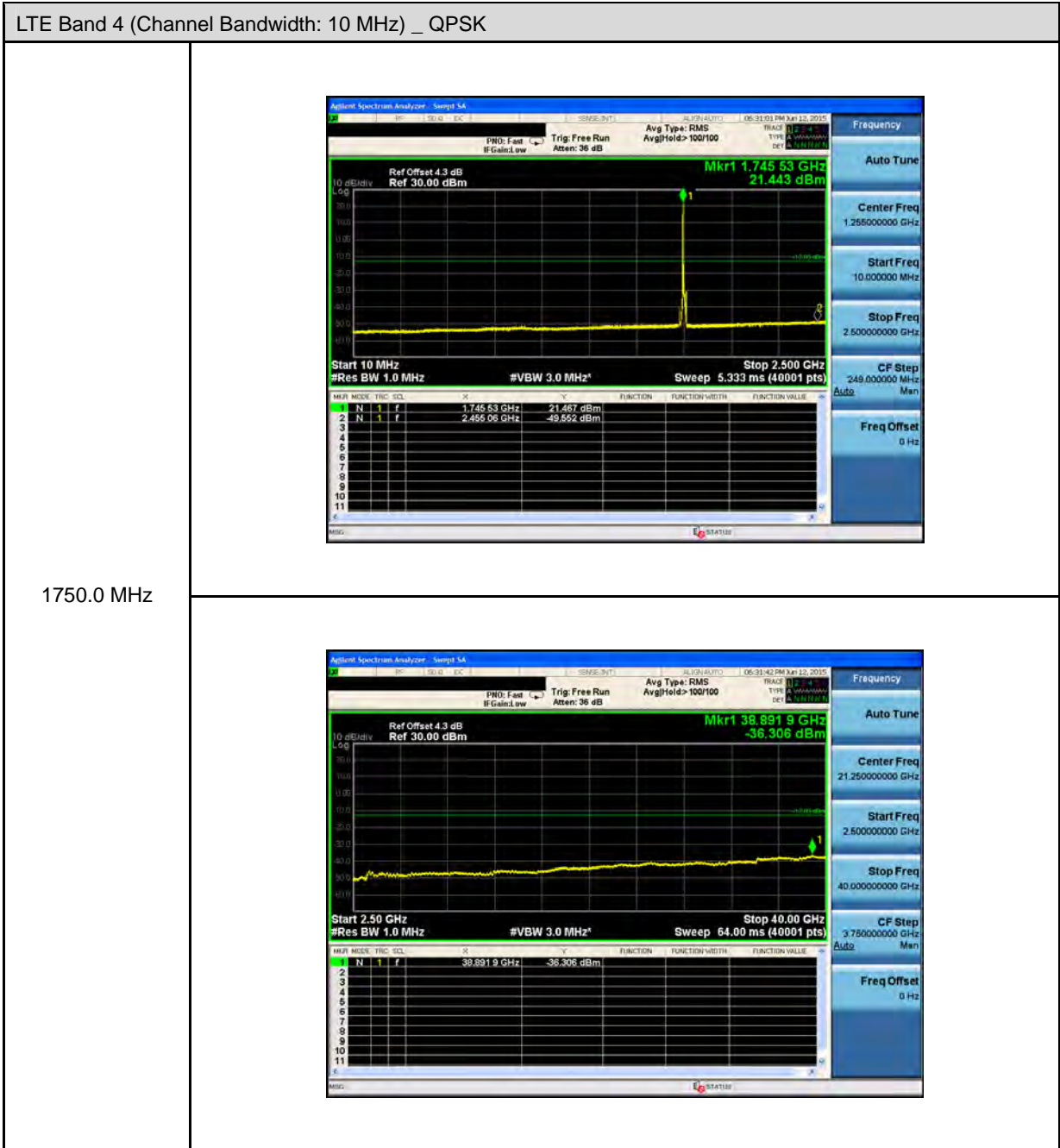


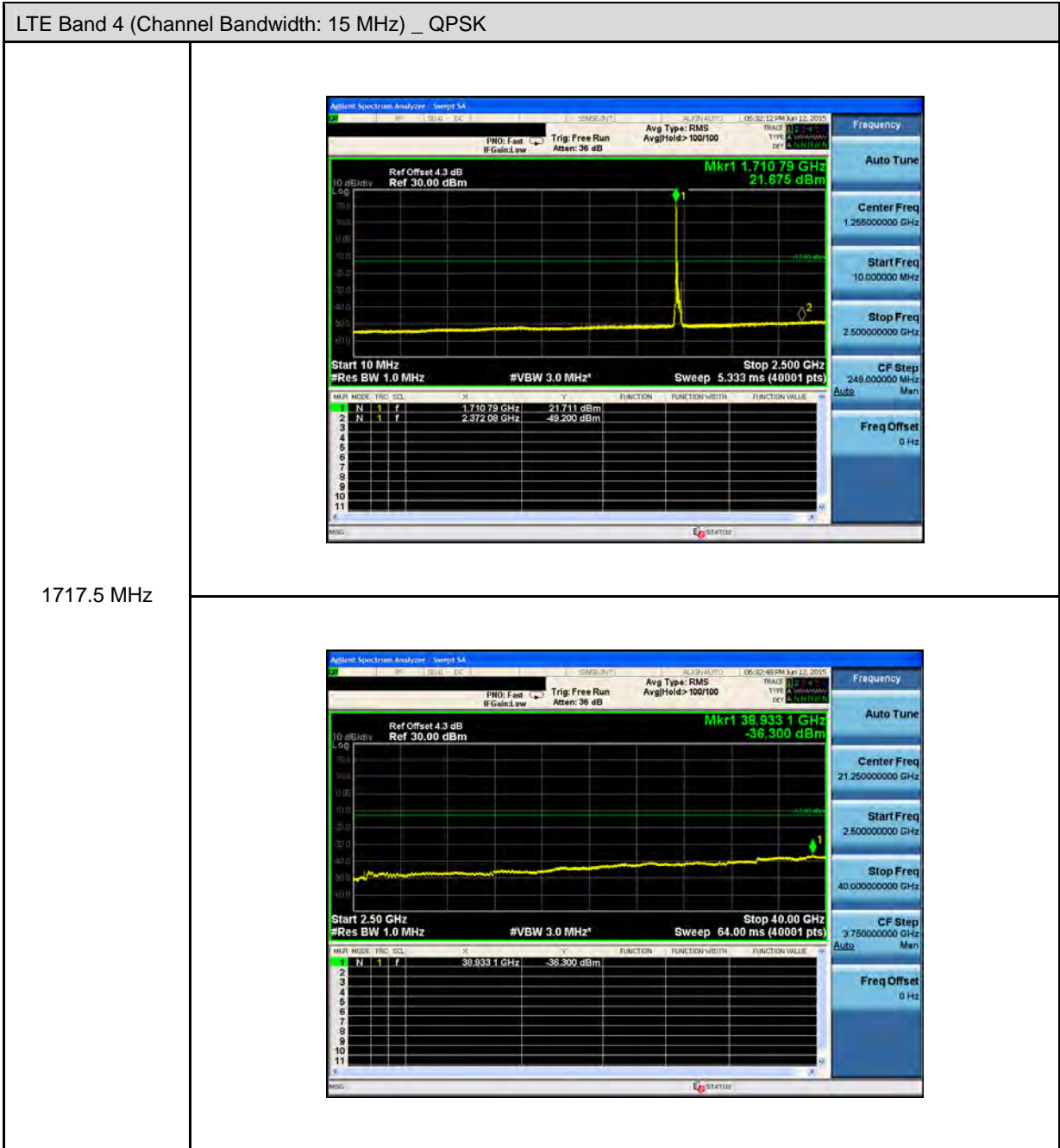


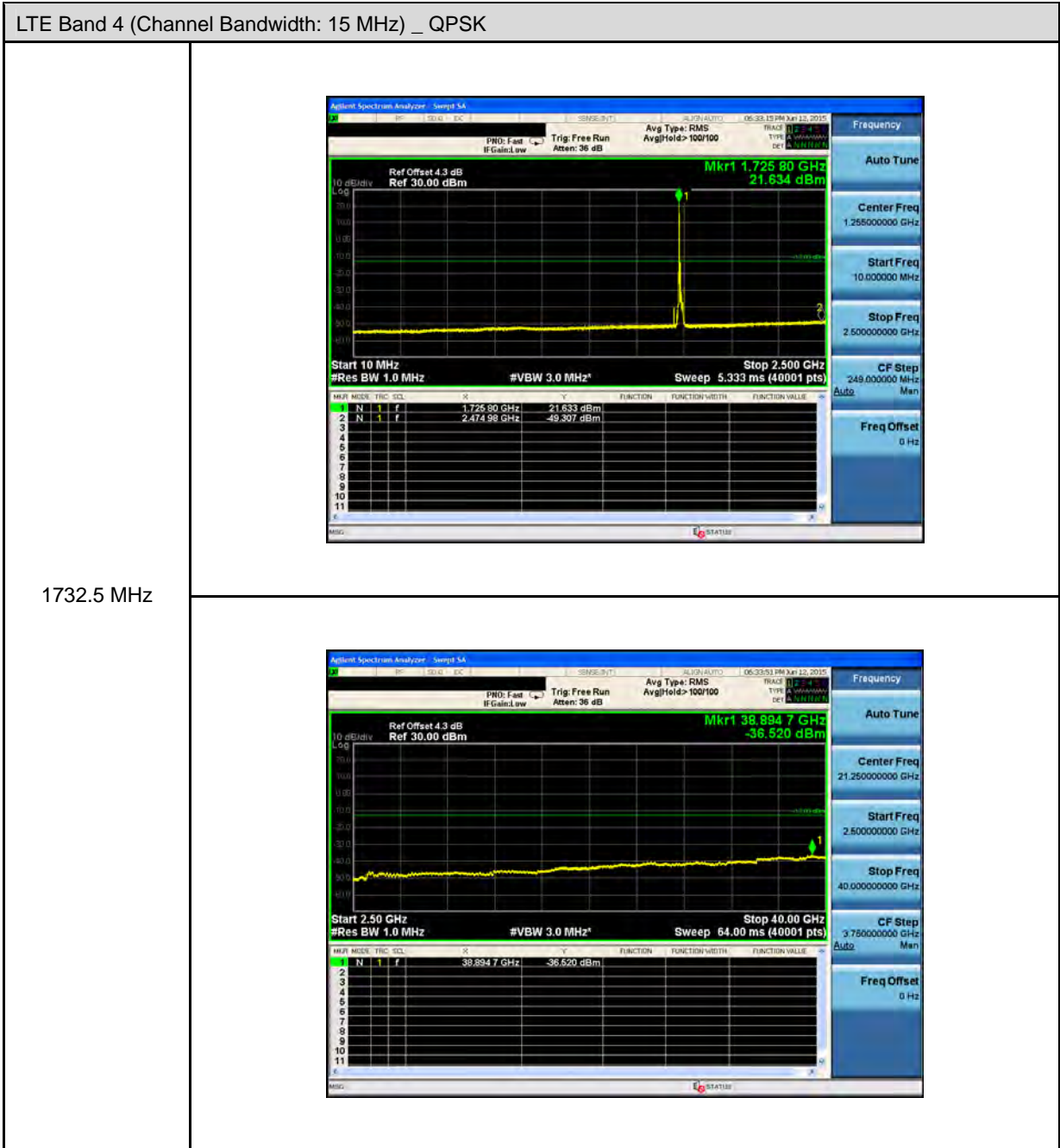


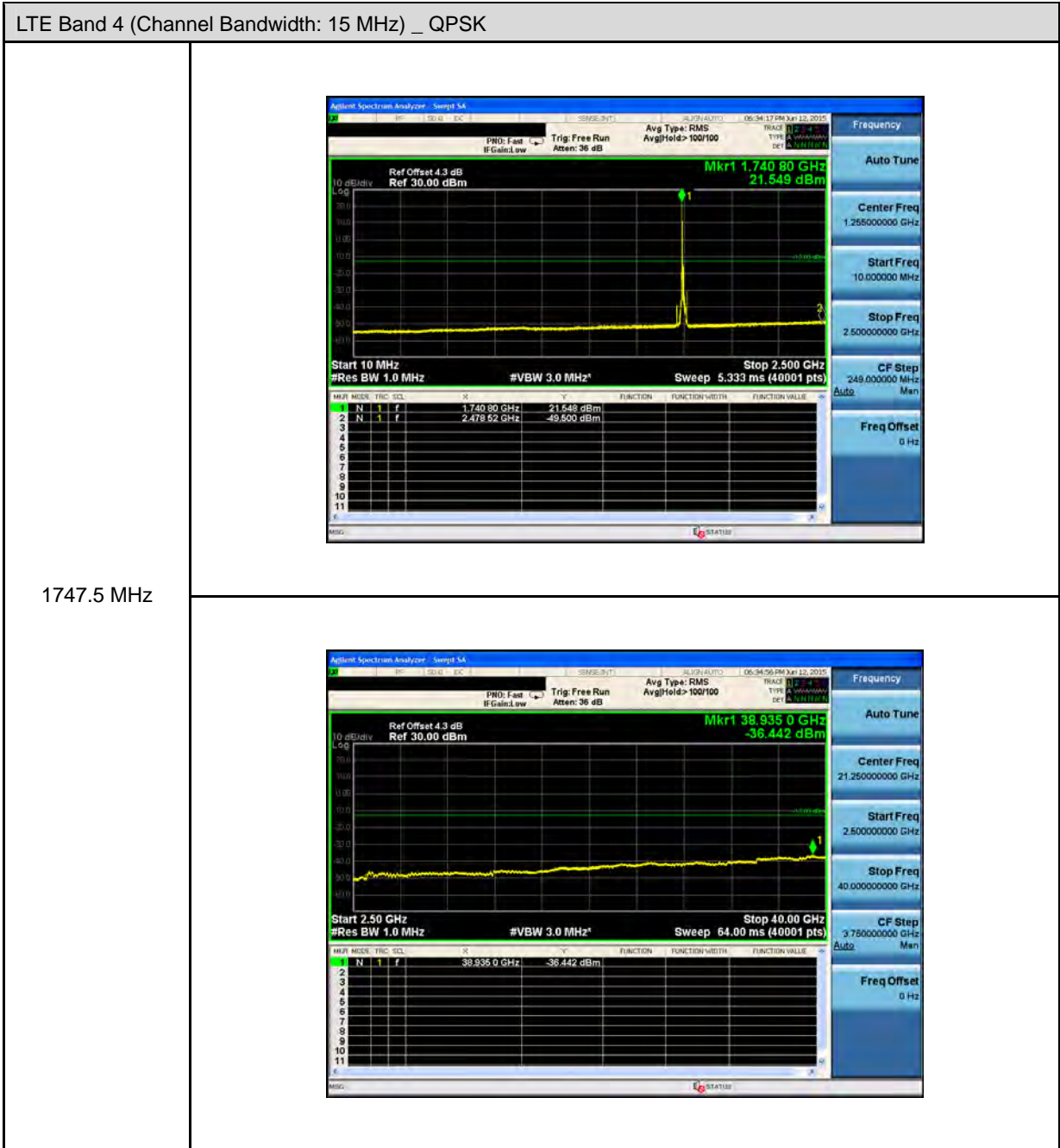


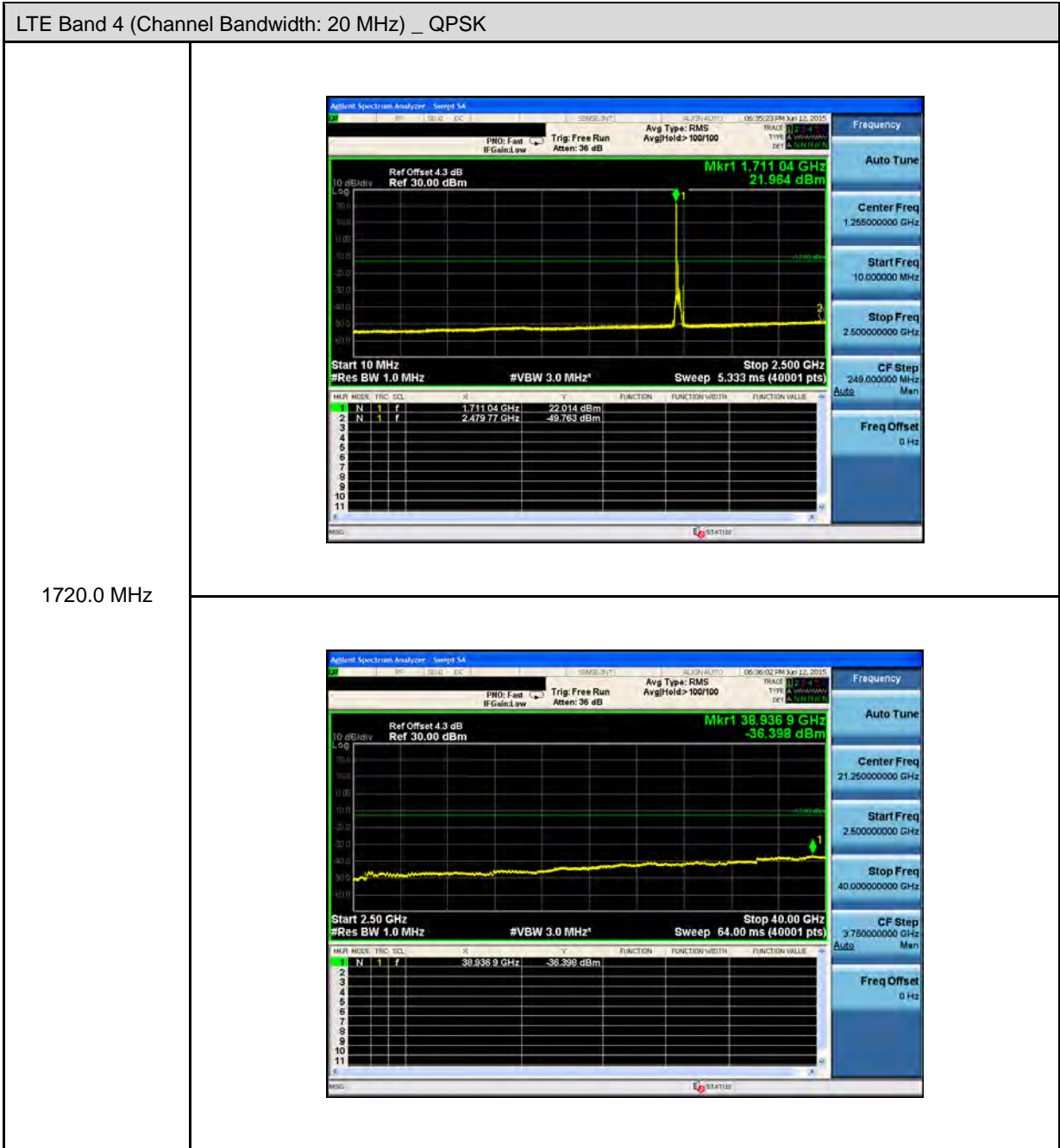


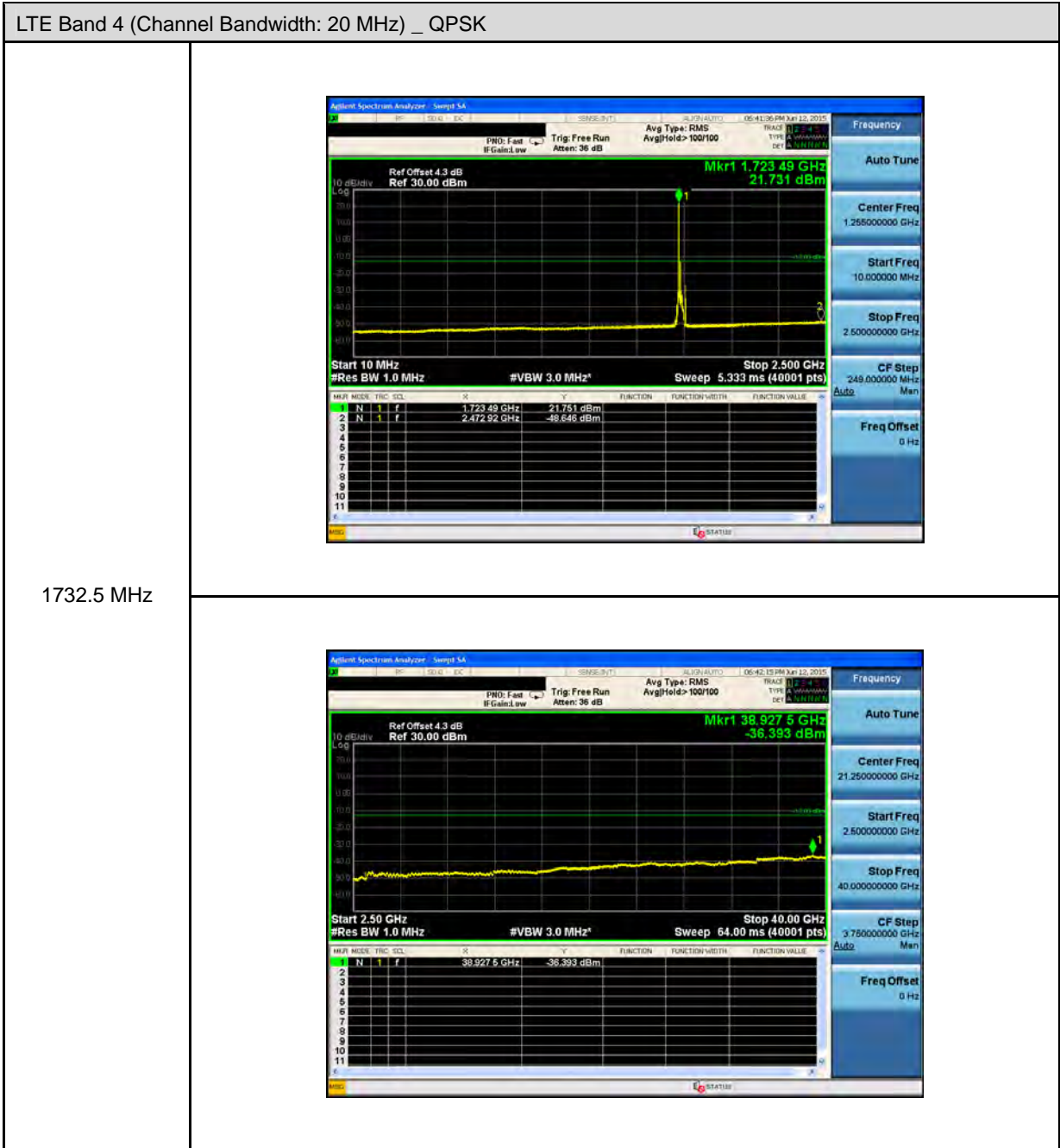


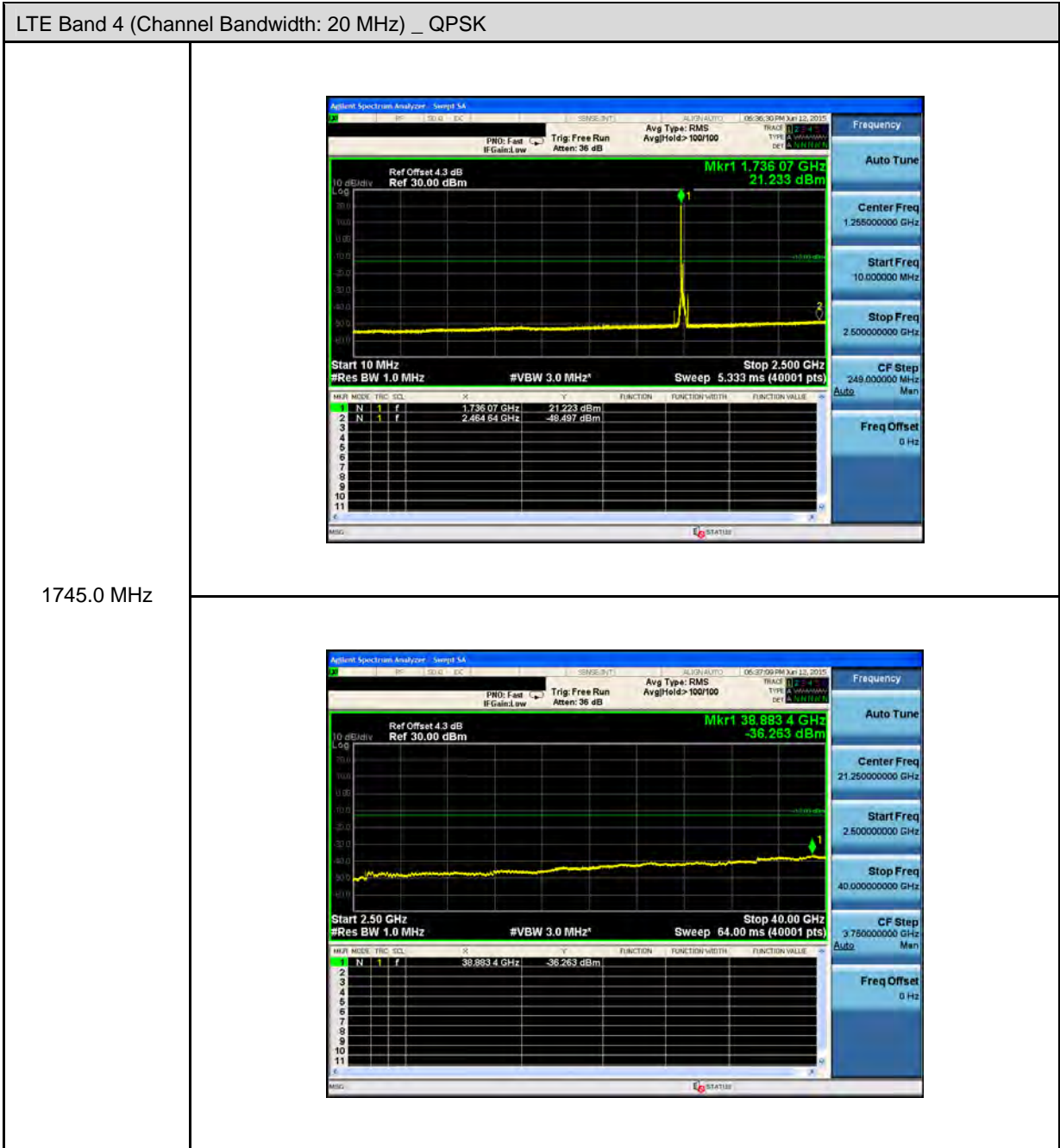


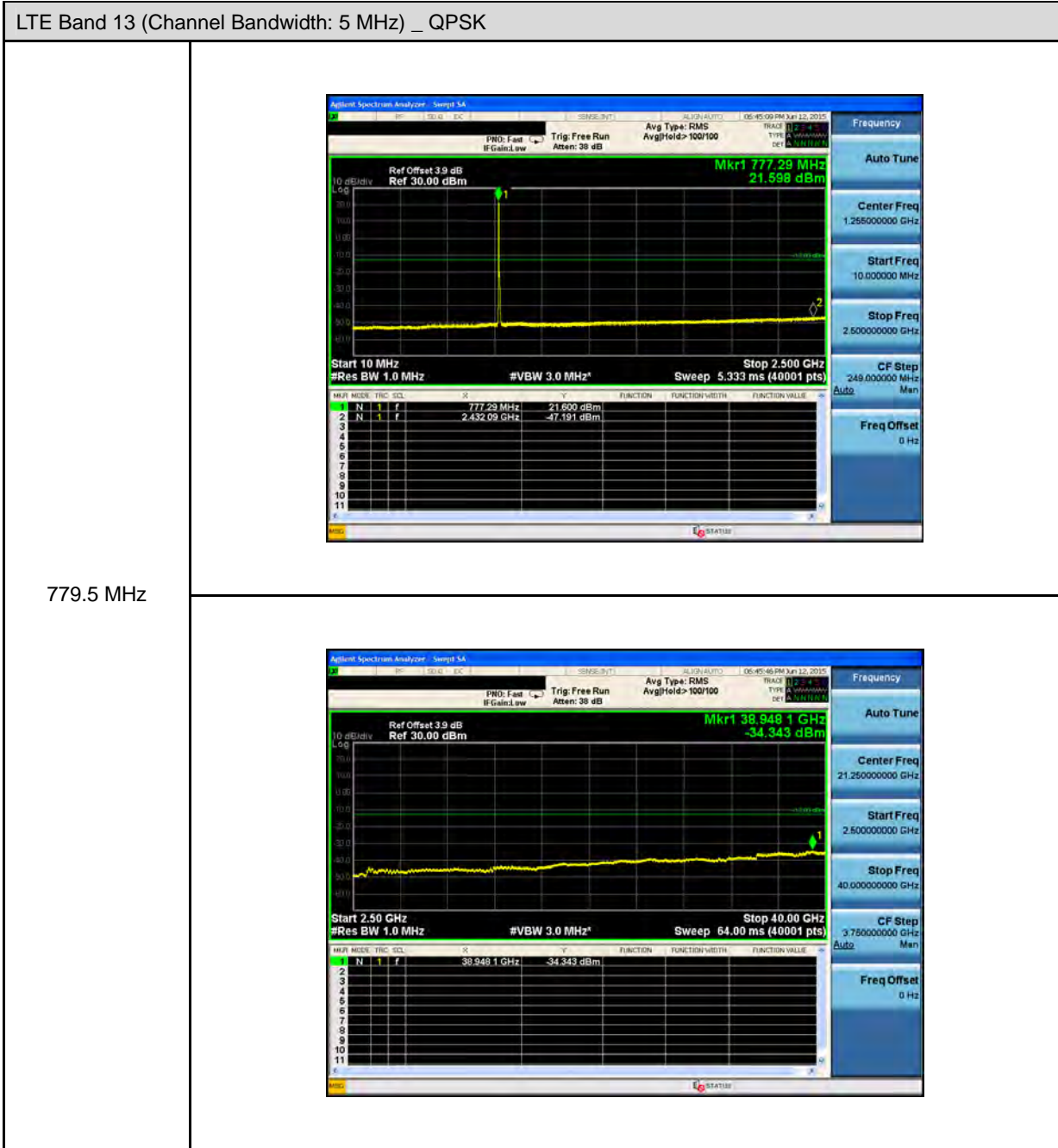


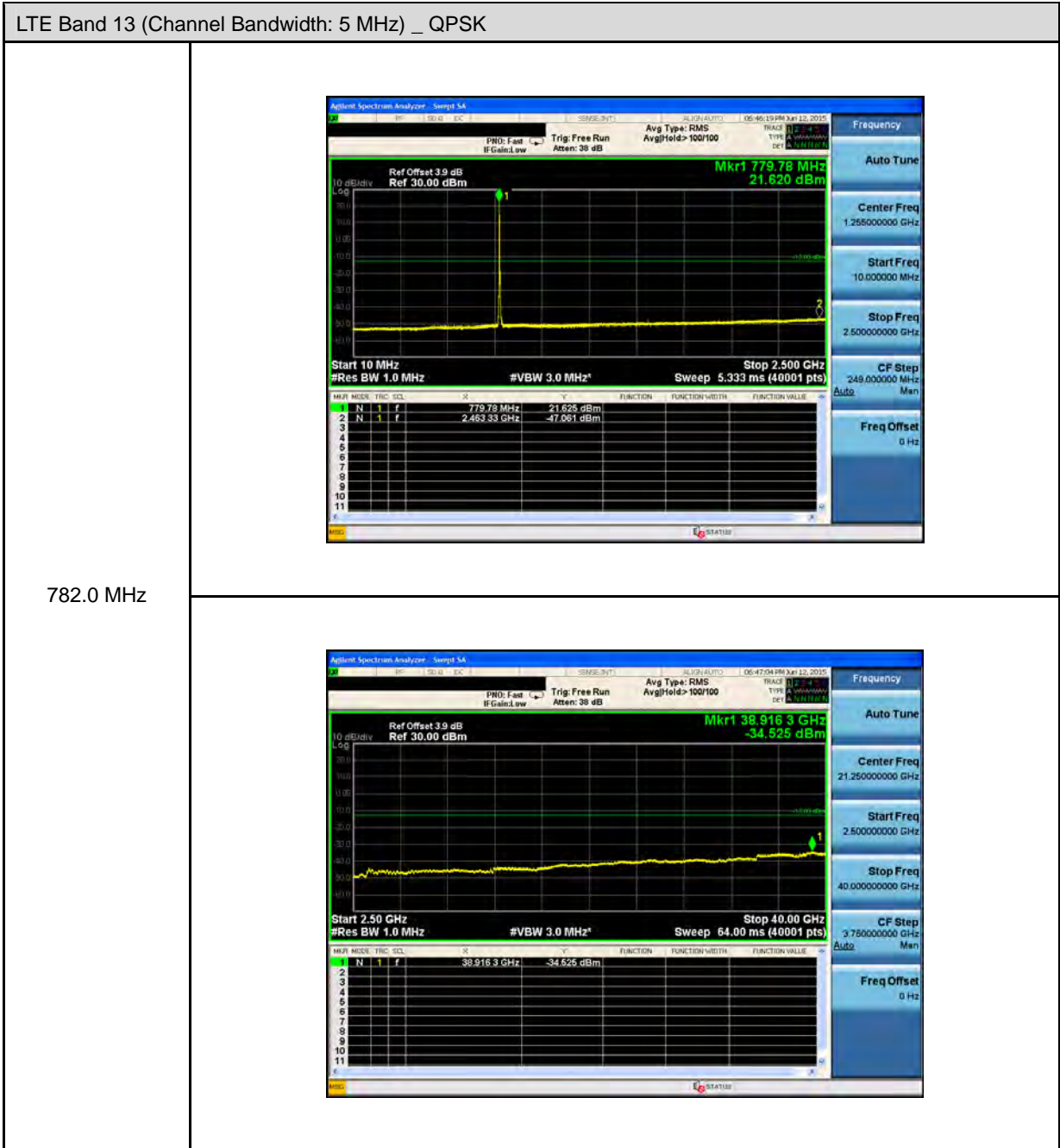


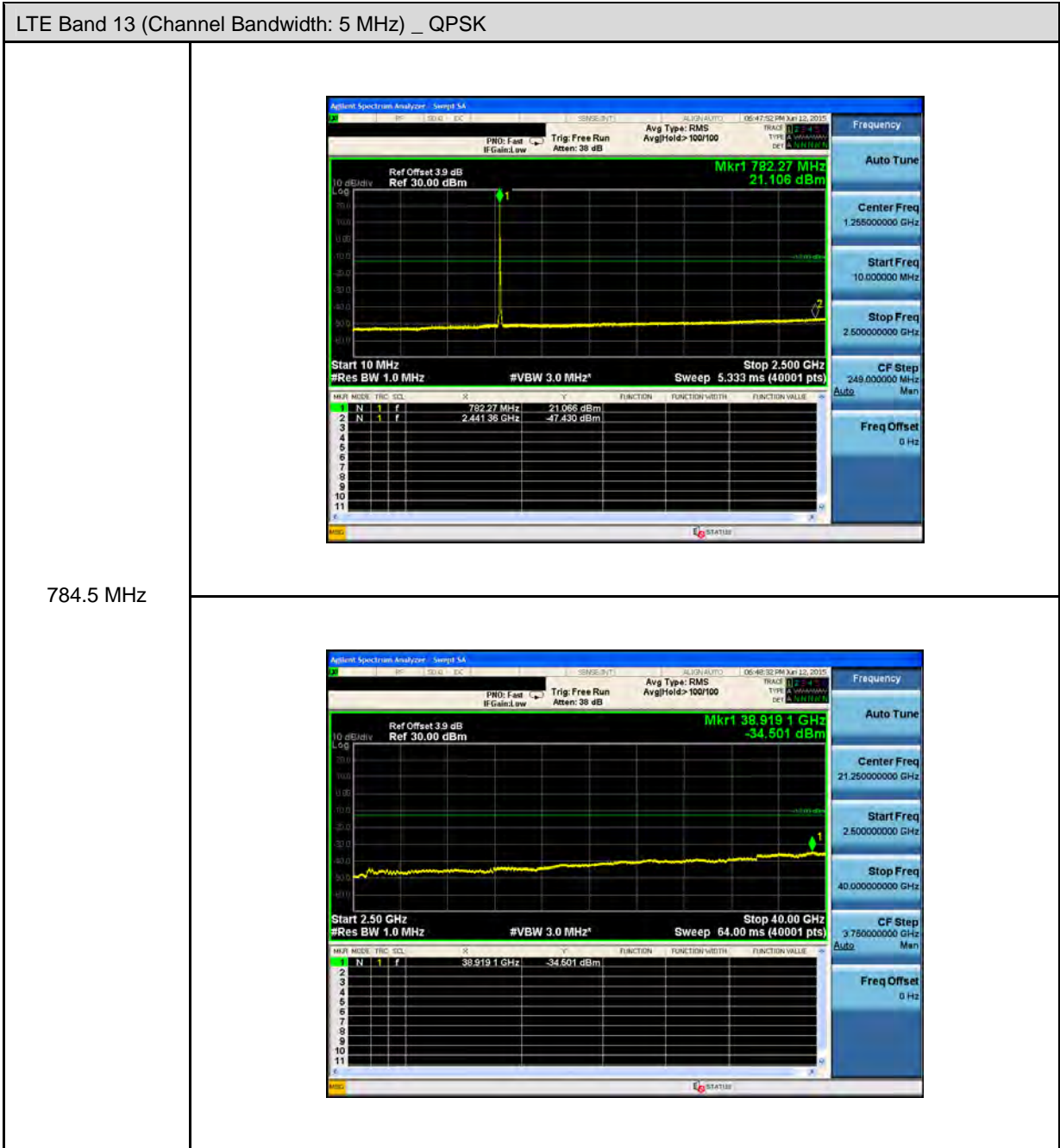


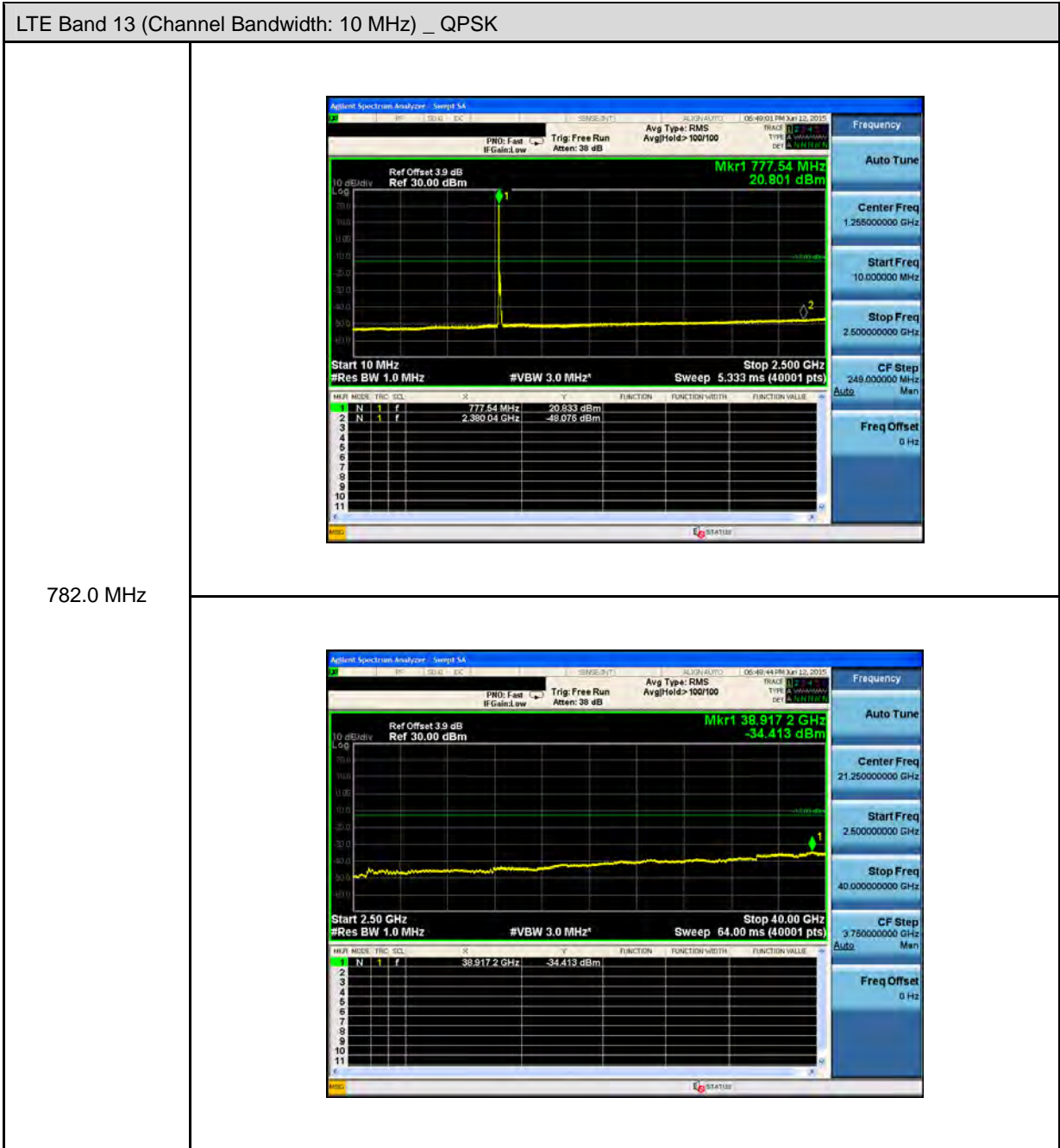












8.7. Test Result

Radiation Emission

Band	Bandwidth	CH	Frequency (MHz)	Measurement (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Over (dB)
LTE Band2	1.4MHz	18607	2309.95	-49.65	2.14	-47.51	-13.00	-34.51
			38949.10	-36.37	2.14	-34.23	-13.00	-21.23
		18900	2188.19	-50.27	2.14	-48.13	-13.00	-35.13
			38955.50	-36.20	2.14	-34.06	-13.00	-21.06
		19193	2077.01	-50.41	2.14	-48.27	-13.00	-35.27
			38911.60	-36.21	2.14	-34.07	-13.00	-21.07
	3MHz	18615	2322.21	-50.09	2.14	-47.95	-13.00	-34.95
			38983.80	-36.19	2.14	-34.05	-13.00	-21.05
		18900	2351.97	-49.65	2.14	-47.51	-13.00	-34.51
			38900.30	-36.21	2.14	-34.07	-13.00	-21.07
		19185	2319.54	-49.14	2.14	-47.00	-13.00	-34.00
			38921.90	-36.32	2.14	-34.18	-13.00	-21.18
	5MHz	18625	2348.79	-49.49	2.14	-47.35	-13.00	-34.35
			38912.50	-36.38	2.14	-34.24	-13.00	-21.24
		18900	2268.62	-49.46	2.14	-47.32	-13.00	-34.32
			38920.00	-36.27	2.14	-34.13	-13.00	-21.13
		19175	2358.75	-49.82	2.14	-47.68	-13.00	-34.68
			38925.50	-36.35	2.14	-34.21	-13.00	-21.21
	10MHz	18650	2194.60	-49.94	2.14	-47.80	-13.00	-34.80
			38829.10	-36.31	2.14	-34.17	-13.00	-21.17
		19150	2292.33	-49.83	2.14	-47.69	-13.00	-34.69
			38885.30	-36.28	2.14	-34.14	-13.00	-21.14
		18675	2231.45	-49.76	2.14	-47.62	-13.00	-34.62
			38924.70	-36.13	2.14	-33.99	-13.00	-20.99
	15MHz	18675	2372.64	-49.99	2.14	-47.85	-13.00	-34.85
			38989.40	-36.18	2.14	-34.04	-13.00	-21.04
		18900	2183.02	-50.61	2.14	-48.47	-13.00	-35.47
			38907.80	-36.11	2.14	-33.97	-13.00	-20.97
		19125	2475.41	-49.22	2.14	-47.08	-13.00	-34.08
			38925.60	-36.33	2.14	-34.19	-13.00	-21.19
	20MHz	18700	2371.70	-49.20	2.14	-47.06	-13.00	-34.06
			38976.30	-36.54	2.14	-34.40	-13.00	-21.40
		18900	2476.97	-48.81	2.14	-46.67	-13.00	-33.67
			38927.50	-36.33	2.14	-34.19	-13.00	-21.19
		19100	2197.15	-50.05	2.14	-47.91	-13.00	-34.91
			38899.40	-36.41	2.14	-34.27	-13.00	-21.27

Band	Bandwidth	CH	Frequency (MHz)	Measurement (dBm)	Antanna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Over (dB)
LTE Band4	1.4MHz	19957	2448.77	-48.70	2.14	-46.56	-13.00	-33.56
			38873.10	-36.23	2.14	-34.09	-13.00	-21.09
		20175	2353.09	-50.17	2.14	-48.03	-13.00	-35.03
			38909.70	-36.35	2.14	-34.21	-13.00	-21.21
		20393	2342.01	-49.24	2.14	-47.10	-13.00	-34.10
			38880.60	-36.25	2.14	-34.11	-13.00	-21.11
	3MHz	19965	2452.69	-49.48	2.14	-47.34	-13.00	-34.34
			38908.80	-36.29	2.14	-34.15	-13.00	-21.15
		20175	2398.22	-49.75	2.14	-47.61	-13.00	-34.61
			38924.70	-36.17	2.14	-34.03	-13.00	-21.03
		20385	2324.46	-49.64	2.14	-47.50	-13.00	-34.50
			38933.10	-36.37	2.14	-34.23	-13.00	-21.23
	5MHz	19975	2329.68	-49.49	2.14	-47.35	-13.00	-34.35
			38903.10	-36.54	2.14	-34.40	-13.00	-21.40
		20175	2462.28	-49.05	2.14	-46.91	-13.00	-33.91
			38883.40	-36.10	2.14	-33.96	-13.00	-20.96
		20375	2460.60	-49.27	2.14	-47.13	-13.00	-34.13
			38927.50	-36.33	2.14	-34.19	-13.00	-21.19
	10MHz	20000	2426.23	-48.61	2.14	-46.47	-13.00	-33.47
			38854.40	-36.38	2.14	-34.24	-13.00	-21.24
		20175	2477.09	-49.39	2.14	-47.25	-13.00	-34.25
			38912.50	-36.32	2.14	-34.18	-13.00	-21.18
		20350	2455.06	-49.55	2.14	-47.41	-13.00	-34.41
			38891.90	-36.31	2.14	-34.17	-13.00	-21.17
	15MHz	20025	2372.08	-49.20	2.14	-47.06	-13.00	-34.06
			38933.10	-36.30	2.14	-34.16	-13.00	-21.16
		20175	2474.98	-49.31	2.14	-47.17	-13.00	-34.17
			38894.70	-36.52	2.14	-34.38	-13.00	-21.38
		20325	2478.52	-49.50	2.14	-47.36	-13.00	-34.36
			38935.00	-36.44	2.14	-34.30	-13.00	-21.30
	20MHz	20050	2479.77	-49.76	2.14	-47.62	-13.00	-34.62
			38936.90	-36.40	2.14	-34.26	-13.00	-21.26
		20175	2472.92	-48.65	2.14	-46.51	-13.00	-33.51
			38927.50	-36.39	2.14	-34.25	-13.00	-21.25
		20300	2464.64	-48.50	2.14	-46.36	-13.00	-33.36
			38883.40	-36.26	2.14	-34.12	-13.00	-21.12

Band	Bandwidth	CH	Frequency (MHz)	Measurement (dBm)	Antanna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Over (dB)
LTE Band13	5MHz	23205	2432.09	-47.19	2.14	-45.05	-13.00	-32.05
			38948.10	-34.34	2.14	-32.20	-13.00	-19.20
		23230	2463.33	-47.06	2.14	-44.92	-13.00	-31.92
			38916.30	-34.53	2.14	-32.39	-13.00	-19.39
		23255	2441.36	-47.43	2.14	-45.29	-13.00	-32.29
			38919.10	-34.50	2.14	-32.36	-13.00	-19.36
	10MHz	23230	2380.04	-48.08	2.14	-45.94	-13.00	-32.94
			38917.20	-34.41	2.14	-32.27	-13.00	-19.27

9 Radiated Emission Test

9.1. Limit

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

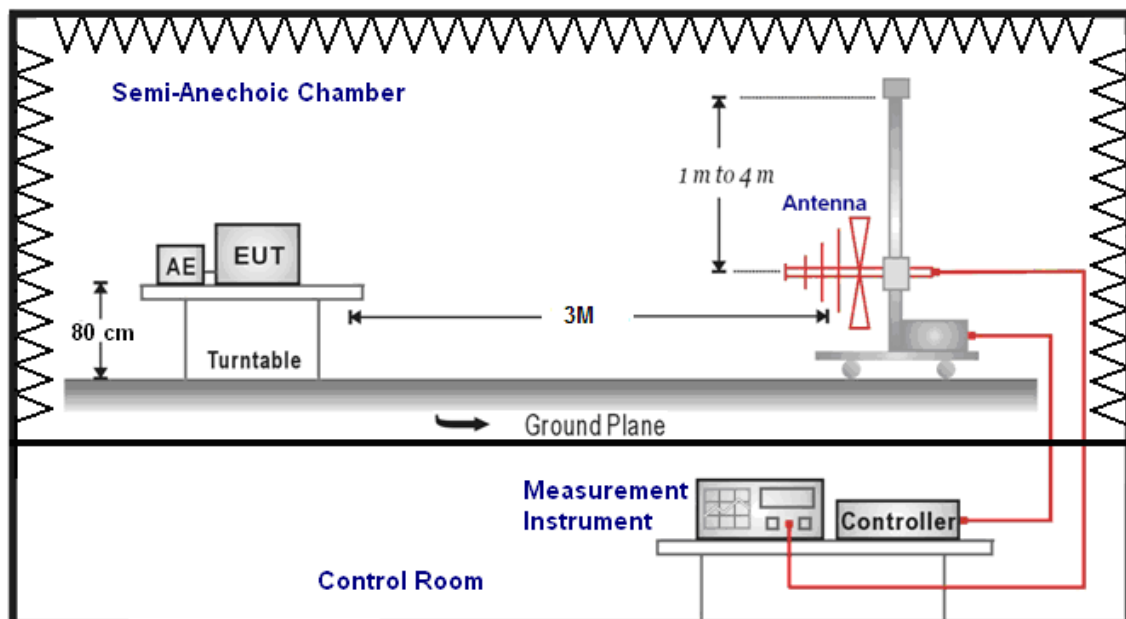
9.2. Test Instruments

3 Meter Chamber					
Equipment	Manufacturer	Model Number	Serial Number	Cal. Date	Remark
RF Pre-selector	Agilent	N9039A	MY46520256	01/06/2015	(1)
Spectrum Analyzer	Agilent	E4446A	MY46180578	01/06/2015	(1)
Pre Amplifier	Agilent	8449B	3008A02237	02/24/2015	(1)
Pre Amplifier	Agilent	8447D	2944A10961	02/24/2015	(1)
Broadband Antenna (30MHz~1GHz)	SCHWARZBECK MESS-ELEKTRONIK	VULB9163	9163-270	07/22/2014	(1)
Horn Antenna (1~18GHz)	SCHWARZBECK MESS-ELEKTRONIK	BBHA9120D	9120D-550	06/12/2015	(1)
Horn Antenna (18~40GHz)	SCHWARZBECK MESS-ELEKTRONIK	BBHA9170	9170-320	07/02/2014	(1)
Test Site	ATL	TE01	888001	08/28/2014	(1)

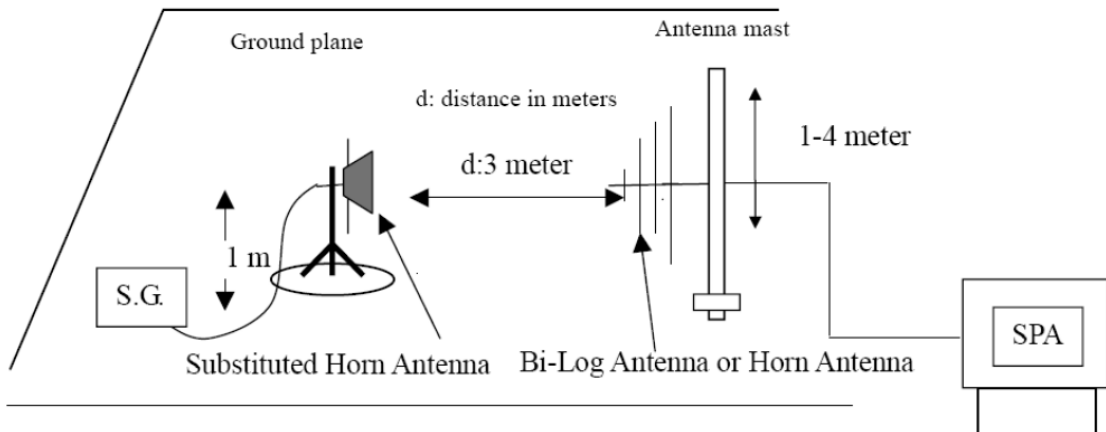
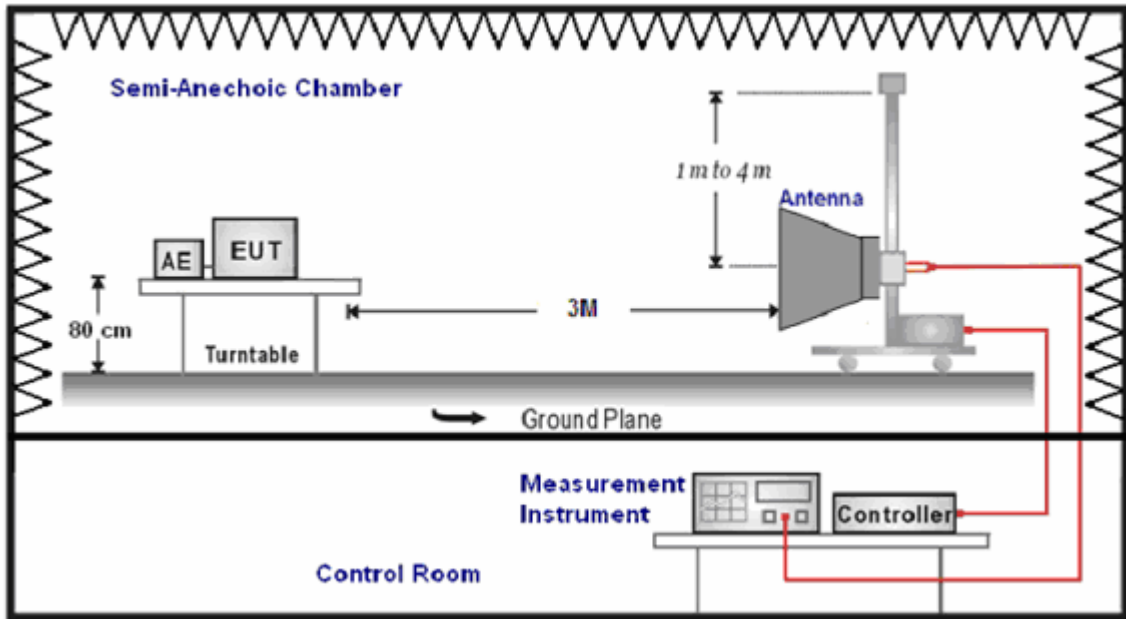
Remark: ⁽¹⁾ Calibration period 1 year. ⁽²⁾ Calibration period 2 years.
 Note: N.C.R. = No Calibration Request.

9.3. Setup

Below 1GHz



Above 1GHz



9.4. Test Procedure

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

9.5. Uncertainty

The measurement uncertainty is defined as for Field Strength of Spurious Radiation measurement is ± 3.072 dB.

9.6. Test Result

Standard:	FCC Part 24	Test Distance:	3m
Test item:	Radiated Emission	Power:	DC 3.8V
Model Number:	LE910-SV V2	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Band:	LTE Band 2	Date:	06/18/2015
Channel Bandwidth:	1.4 MHz	Test By:	Eric Ou Yang
Modulation Technology:	QPSK		
Frequency:	1850.7 MHz		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	5992.000	-75.09	22.06	-53.03	-13.00	-40.03	peak	H
1	3760.000	-72.09	16.89	-55.20	-13.00	-42.20	peak	V

Standard:	FCC Part 24	Test Distance:	3m
Test item:	Radiated Emission	Power:	DC 3.8V
Model Number:	LE910-SV V2	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Band:	LTE Band 2	Date:	06/18/2015
Channel Bandwidth:	1.4 MHz	Test By:	Eric Ou Yang
Modulation Technology:	QPSK		
Frequency:	1880.0 MHz		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	4732.000	-74.19	19.67	-54.52	-13.00	-41.52	peak	H
1	3076.000	-68.91	14.50	-54.41	-13.00	-41.41	peak	V

Standard:	FCC Part 24	Test Distance:	3m
Test item:	Radiated Emission	Power:	DC 3.8V
Model Number:	LE910-SV V2	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Band:	LTE Band 2	Date:	06/18/2015
Channel Bandwidth:	1.4 MHz	Test By:	Eric Ou Yang
Modulation Technology:	QPSK		
Frequency:	1909.3 MHz		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	4324.000	-73.96	18.33	-55.63	-13.00	-42.63	peak	H
1	4372.000	-73.54	18.50	-55.04	-13.00	-42.04	peak	V

Standard:	FCC Part 24	Test Distance:	3m
Test item:	Radiated Emission	Power:	DC 3.8V
Model Number:	LE910-SV V2	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Band:	LTE Band 2	Date:	06/18/2015
Channel Bandwidth:	3 MHz	Test By:	Eric Ou Yang
Modulation Technology:	QPSK		
Frequency:	1851.5 MHz		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	5320.000	-74.79	20.96	-53.83	-13.00	-40.83	peak	H
1	4804.000	-73.52	19.89	-53.63	-13.00	-40.63	peak	V

Standard:	FCC Part 24	Test Distance:	3m
Test item:	Radiated Emission	Power:	DC 3.8V
Model Number:	LE910-SV V2	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Band:	LTE Band 2	Date:	06/18/2015
Channel Bandwidth:	3 MHz	Test By:	Eric Ou Yang
Modulation Technology:	QPSK		
Frequency:	1880.0 MHz		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	3700.000	-71.07	16.81	-54.26	-13.00	-41.26	peak	H
1	5368.000	-75.39	21.04	-54.35	-13.00	-41.35	peak	V

Standard:	FCC Part 24	Test Distance:	3m
Test item:	Radiated Emission	Power:	DC 3.8V
Model Number:	LE910-SV V2	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Band:	LTE Band 2	Date:	06/18/2015
Channel Bandwidth:	3 MHz	Test By:	Eric Ou Yang
Modulation Technology:	QPSK		
Frequency:	1908.5 MHz		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	5068.000	-74.47	20.59	-53.88	-13.00	-40.88	peak	H
1	4468.000	-74.19	18.85	-55.34	-13.00	-42.34	peak	V

Standard:	FCC Part 24	Test Distance:	3m
Test item:	Radiated Emission	Power:	DC 3.8V
Model Number:	LE910-SV V2	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Band:	LTE Band 2	Date:	06/18/2015
Channel Bandwidth:	5 MHz	Test By:	Eric Ou Yang
Modulation Technology:	QPSK		
Frequency:	1852.5 MHz		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	5164.000	-74.54	20.74	-53.80	-13.00	-40.80	peak	H
1	5236.000	-76.15	20.84	-55.31	-13.00	-42.31	peak	V

Standard:	FCC Part 24	Test Distance:	3m
Test item:	Radiated Emission	Power:	DC 3.8V
Model Number:	LE910-SV V2	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Band:	LTE Band 2	Date:	06/18/2015
Channel Bandwidth:	5 MHz	Test By:	Eric Ou Yang
Modulation Technology:	QPSK		
Frequency:	1880.0 MHz		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	4876.000	-73.67	20.11	-53.56	-13.00	-40.56	peak	H
1	5164.000	-75.17	20.74	-54.43	-13.00	-41.43	peak	V

Standard:	FCC Part 24	Test Distance:	3m
Test item:	Radiated Emission	Power:	DC 3.8V
Model Number:	LE910-SV V2	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Band:	LTE Band 2	Date:	06/18/2015
Channel Bandwidth:	5 MHz	Test By:	Eric Ou Yang
Modulation Technology:	QPSK		
Frequency:	1907.5 MHz		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	5296.000	-74.91	20.93	-53.98	-13.00	-40.98	peak	H
1	5056.000	-73.28	20.57	-52.71	-13.00	-39.71	peak	V

Standard:	FCC Part 24	Test Distance:	3m
Test item:	Radiated Emission	Power:	DC 3.8V
Model Number:	LE910-SV V2	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Band:	LTE Band 2	Date:	06/18/2015
Channel Bandwidth:	10 MHz	Test By:	Eric Ou Yang
Modulation Technology:	QPSK		
Frequency:	1855.0 MHz		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	2968.000	-70.23	14.02	-56.21	-13.00	-43.21	peak	H
1	4684.000	-74.00	19.52	-54.48	-13.00	-41.48	peak	V

Standard:	FCC Part 24	Test Distance:	3m
Test item:	Radiated Emission	Power:	DC 3.8V
Model Number:	LE910-SV V2	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Band:	LTE Band 2	Date:	06/18/2015
Channel Bandwidth:	10 MHz	Test By:	Eric Ou Yang
Modulation Technology:	QPSK		
Frequency:	1880.0 MHz		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	4780.000	-73.65	19.82	-53.83	-13.00	-40.83	peak	H
1	5284.000	-73.30	20.92	-52.38	-13.00	-39.38	peak	V

Standard:	FCC Part 24	Test Distance:	3m
Test item:	Radiated Emission	Power:	DC 3.8V
Model Number:	LE910-SV V2	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Band:	LTE Band 2	Date:	06/18/2015
Channel Bandwidth:	10 MHz	Test By:	Eric Ou Yang
Modulation Technology:	QPSK		
Frequency:	1905.0 MHz		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	6388.000	-75.25	23.24	-52.01	-13.00	-39.01	peak	H
1	5452.000	-73.71	21.15	-52.56	-13.00	-39.56	peak	V

Standard:	FCC Part 24	Test Distance:	3m
Test item:	Radiated Emission	Power:	DC 3.8V
Model Number:	LE910-SV V2	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Band:	LTE Band 2	Date:	06/18/2015
Channel Bandwidth:	15 MHz	Test By:	Eric Ou Yang
Modulation Technology:	QPSK		
Frequency:	1857.5 MHz		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	5080.000	-74.01	20.60	-53.41	-13.00	-40.41	peak	H
1	4840.000	-73.88	20.00	-53.88	-13.00	-40.88	peak	V

Standard:	FCC Part 24	Test Distance:	3m
Test item:	Radiated Emission	Power:	DC 3.8V
Model Number:	LE910-SV V2	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Band:	LTE Band 2	Date:	06/18/2015
Channel Bandwidth:	15 MHz	Test By:	Eric Ou Yang
Modulation Technology:	QPSK		
Frequency:	1880.0 MHz		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	5500.000	-74.81	21.23	-53.58	-13.00	-40.58	peak	H
1	6508.000	-75.12	23.60	-51.52	-13.00	-38.52	peak	V

Standard:	FCC Part 24	Test Distance:	3m
Test item:	Radiated Emission	Power:	DC 3.8V
Model Number:	LE910-SV V2	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Band:	LTE Band 2	Date:	06/18/2015
Channel Bandwidth:	15 MHz	Test By:	Eric Ou Yang
Modulation Technology:	QPSK		
Frequency:	1902.5 MHz		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	5224.000	-74.95	20.83	-54.12	-13.00	-41.12	peak	H
1	4852.000	-73.91	20.04	-53.87	-13.00	-40.87	peak	V

Standard:	FCC Part 24	Test Distance:	3m
Test item:	Radiated Emission	Power:	DC 3.8V
Model Number:	LE910-SV V2	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Band:	LTE Band 2	Date:	06/18/2015
Channel Bandwidth:	20 MHz	Test By:	Eric Ou Yang
Modulation Technology:	QPSK		
Frequency:	1860.0 MHz		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	6016.000	-74.80	22.12	-52.68	-13.00	-39.68	peak	H
1	6268.000	-75.44	22.89	-52.55	-13.00	-39.55	peak	V

Standard:	FCC Part 24	Test Distance:	3m
Test item:	Radiated Emission	Power:	DC 3.8V
Model Number:	LE910-SV V2	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Band:	LTE Band 2	Date:	06/18/2015
Channel Bandwidth:	20 MHz	Test By:	Eric Ou Yang
Modulation Technology:	QPSK		
Frequency:	1880.0 MHz		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	6820.000	-74.30	24.52	-49.78	-13.00	-36.78	peak	H
1	6244.000	-74.28	22.81	-51.47	-13.00	-38.47	peak	V

Standard:	FCC Part 24	Test Distance:	3m
Test item:	Radiated Emission	Power:	DC 3.8V
Model Number:	LE910-SV V2	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Band:	LTE Band 2	Date:	06/18/2015
Channel Bandwidth:	20 MHz	Test By:	Eric Ou Yang
Modulation Technology:	QPSK		
Frequency:	1900.0 MHz		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	5020.000	-73.85	20.52	-53.33	-13.00	-40.33	peak	H
1	4096.000	-71.73	17.48	-54.25	-13.00	-41.25	peak	V

Standard:	FCC Part 24	Test Distance:	3m
Test item:	Radiated Emission	Power:	DC 3.8V
Model Number:	LE910-SV V2	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Band:	LTE Band 2	Date:	06/18/2015
Channel Bandwidth:	1.4 MHz	Test By:	Eric Ou Yang
Modulation Technology:	16QAM		
Frequency:	1880.0 MHz		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	4792.000	-73.95	19.86	-54.09	-13.00	-41.09	peak	H
1	3004.000	-70.36	14.12	-56.24	-13.00	-43.24	peak	V

Standard:	FCC Part 24	Test Distance:	3m
Test item:	Radiated Emission	Power:	DC 3.8V
Model Number:	LE910-SV V2	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Band:	LTE Band 2	Date:	06/18/2015
Channel Bandwidth:	3 MHz	Test By:	Eric Ou Yang
Modulation Technology:	16QAM		
Frequency:	1880.0 MHz		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	5200.000	-74.24	20.79	-53.45	-13.00	-40.45	peak	H
1	5080.000	-73.11	20.60	-52.51	-13.00	-39.51	peak	V

Standard:	FCC Part 24	Test Distance:	3m
Test item:	Radiated Emission	Power:	DC 3.8V
Model Number:	LE910-SV V2	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Band:	LTE Band 2	Date:	06/18/2015
Channel Bandwidth:	5 MHz	Test By:	Eric Ou Yang
Modulation Technology:	16QAM		
Frequency:	1880.0 MHz		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	3892.000	-73.20	17.01	-56.19	-13.00	-43.19	peak	H
1	4288.000	-72.79	18.19	-54.60	-13.00	-41.60	peak	V

Standard:	FCC Part 24	Test Distance:	3m
Test item:	Radiated Emission	Power:	DC 3.8V
Model Number:	LE910-SV V2	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Band:	LTE Band 2	Date:	06/18/2015
Channel Bandwidth:	10 MHz	Test By:	Eric Ou Yang
Modulation Technology:	16QAM		
Frequency:	1880.0 MHz		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	5980.000	-74.25	22.05	-52.20	-13.00	-39.20	peak	H
1	5080.000	-73.72	20.60	-53.12	-13.00	-40.12	peak	V

Standard:	FCC Part 24	Test Distance:	3m
Test item:	Radiated Emission	Power:	DC 3.8V
Model Number:	LE910-SV V2	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Band:	LTE Band 2	Date:	06/18/2015
Channel Bandwidth:	15 MHz	Test By:	Eric Ou Yang
Modulation Technology:	16QAM		
Frequency:	1880.0 MHz		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	5260.000	-74.81	20.87	-53.94	-13.00	-40.94	peak	H
1	3124.000	-70.03	14.73	-55.30	-13.00	-42.30	peak	V

Standard:	FCC Part 24	Test Distance:	3m
Test item:	Radiated Emission	Power:	DC 3.8V
Model Number:	LE910-SV V2	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Band:	LTE Band 2	Date:	06/18/2015
Channel Bandwidth:	20 MHz	Test By:	Eric Ou Yang
Modulation Technology:	16QAM		
Frequency:	1880.0 MHz		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	5368.000	-73.64	21.04	-52.60	-13.00	-39.60	peak	H
1	5224.000	-74.94	20.83	-54.11	-13.00	-41.11	peak	V

Standard:	FCC Part 27	Test Distance:	3m
Test item:	Radiated Emission	Power:	DC 3.8V
Model Number:	LE910-SV V2	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Band:	LTE Band 4	Date:	06/18/2015
Channel Bandwidth:	1.4 MHz	Test By:	Eric Ou Yang
Modulation Technology:	QPSK		
Frequency:	1710.7 MHz		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	2764.000	-69.67	13.39	-56.28	-13.00	-43.28	peak	H
1	3664.000	-72.58	16.77	-55.81	-13.00	-42.81	peak	V

Standard:	FCC Part 27	Test Distance:	3m
Test item:	Radiated Emission	Power:	DC 3.8V
Model Number:	LE910-SV V2	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Band:	LTE Band 4	Date:	06/18/2015
Channel Bandwidth:	1.4 MHz	Test By:	Eric Ou Yang
Modulation Technology:	QPSK		
Frequency:	1732.0 MHz		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	4900.000	-73.18	20.19	-52.99	-13.00	-39.99	peak	H
1	4456.000	-74.48	18.80	-55.68	-13.00	-42.68	peak	V

Standard:	FCC Part 27	Test Distance:	3m
Test item:	Radiated Emission	Power:	DC 3.8V
Model Number:	LE910-SV V2	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Band:	LTE Band 4	Date:	06/18/2015
Channel Bandwidth:	1.4 MHz	Test By:	Eric Ou Yang
Modulation Technology:	QPSK		
Frequency:	1754.3 MHz		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	3136.000	-70.90	14.79	-56.11	-13.00	-43.11	peak	H
1	5980.000	-75.03	22.05	-52.98	-13.00	-39.98	peak	V

Standard:	FCC Part 27	Test Distance:	3m
Test item:	Radiated Emission	Power:	DC 3.8V
Model Number:	LE910-SV V2	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Band:	LTE Band 4	Date:	06/18/2015
Channel Bandwidth:	3 MHz	Test By:	Eric Ou Yang
Modulation Technology:	QPSK		
Frequency:	1711.5 MHz		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	6436.000	-75.81	23.37	-52.44	-13.00	-39.44	peak	H
1	5560.000	-74.42	21.33	-53.09	-13.00	-40.09	peak	V

Standard:	FCC Part 27	Test Distance:	3m
Test item:	Radiated Emission	Power:	DC 3.8V
Model Number:	LE910-SV V2	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Band:	LTE Band 4	Date:	06/18/2015
Channel Bandwidth:	3 MHz	Test By:	Eric Ou Yang
Modulation Technology:	QPSK		
Frequency:	1732.5 MHz		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	3628.000	-72.34	16.74	-55.60	-13.00	-42.60	peak	H
1	5344.000	-75.33	21.01	-54.32	-13.00	-41.32	peak	V

Standard:	FCC Part 27	Test Distance:	3m
Test item:	Radiated Emission	Power:	DC 3.8V
Model Number:	LE910-SV V2	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Band:	LTE Band 4	Date:	06/18/2015
Channel Bandwidth:	3 MHz	Test By:	Eric Ou Yang
Modulation Technology:	QPSK		
Frequency:	1753.5 MHz		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	5980.000	-74.13	22.05	-52.08	-13.00	-39.08	peak	H
1	4756.000	-73.24	19.75	-53.49	-13.00	-40.49	peak	V

Standard:	FCC Part 27	Test Distance:	3m
Test item:	Radiated Emission	Power:	DC 3.8V
Model Number:	LE910-SV V2	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Band:	LTE Band 4	Date:	06/18/2015
Channel Bandwidth:	5 MHz	Test By:	Eric Ou Yang
Modulation Technology:	QPSK		
Frequency:	1712.5 MHz		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	5068.000	-73.94	20.59	-53.35	-13.00	-40.35	peak	H
1	6316.000	-74.64	23.02	-51.62	-13.00	-38.62	peak	V

Standard:	FCC Part 27	Test Distance:	3m
Test item:	Radiated Emission	Power:	DC 3.8V
Model Number:	LE910-SV V2	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Band:	LTE Band 4	Date:	06/18/2015
Channel Bandwidth:	5 MHz	Test By:	Eric Ou Yang
Modulation Technology:	QPSK		
Frequency:	1732.5 MHz		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	8836.000	-74.85	26.57	-48.28	-13.00	-35.28	peak	H
1	6604.000	-73.16	23.87	-49.29	-13.00	-36.29	peak	V

Standard:	FCC Part 27	Test Distance:	3m
Test item:	Radiated Emission	Power:	DC 3.8V
Model Number:	LE910-SV V2	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Band:	LTE Band 4	Date:	06/18/2015
Channel Bandwidth:	5 MHz	Test By:	Eric Ou Yang
Modulation Technology:	QPSK		
Frequency:	1752.5 MHz		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	6172.000	-76.10	22.59	-53.51	-13.00	-40.51	peak	H
1	7996.000	-75.39	26.76	-48.63	-13.00	-35.63	peak	V

Standard:	FCC Part 27	Test Distance:	3m
Test item:	Radiated Emission	Power:	DC 3.8V
Model Number:	LE910-SV V2	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Band:	LTE Band 4	Date:	06/18/2015
Channel Bandwidth:	10 MHz	Test By:	Eric Ou Yang
Modulation Technology:	QPSK		
Frequency:	1715.0 MHz		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	5608.000	-74.55	21.42	-53.13	-13.00	-40.13	peak	H
1	7396.000	-75.33	25.98	-49.35	-13.00	-36.35	peak	V

Standard:	FCC Part 27	Test Distance:	3m
Test item:	Radiated Emission	Power:	DC 3.8V
Model Number:	LE910-SV V2	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Band:	LTE Band 4	Date:	06/18/2015
Channel Bandwidth:	10 MHz	Test By:	Eric Ou Yang
Modulation Technology:	QPSK		
Frequency:	1732.5 MHz		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	6676.000	-73.57	24.09	-49.48	-13.00	-36.48	peak	H
1	3328.000	-70.65	15.75	-54.90	-13.00	-41.90	peak	V

Standard:	FCC Part 27	Test Distance:	3m
Test item:	Radiated Emission	Power:	DC 3.8V
Model Number:	LE910-SV V2	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Band:	LTE Band 4	Date:	06/18/2015
Channel Bandwidth:	10 MHz	Test By:	Eric Ou Yang
Modulation Technology:	QPSK		
Frequency:	1750.0 MHz		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	5008.000	-73.47	20.49	-52.98	-13.00	-39.98	peak	H
1	7096.000	-74.67	25.29	-49.38	-13.00	-36.38	peak	V

Standard:	FCC Part 27	Test Distance:	3m
Test item:	Radiated Emission	Power:	DC 3.8V
Model Number:	LE910-SV V2	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Band:	LTE Band 4	Date:	06/18/2015
Channel Bandwidth:	15 MHz	Test By:	Eric Ou Yang
Modulation Technology:	QPSK		
Frequency:	1717.5 MHz		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	5620.000	-72.86	21.43	-51.43	-13.00	-38.43	peak	H
1	7216.000	-73.36	25.56	-47.80	-13.00	-34.80	peak	V

Standard:	FCC Part 27	Test Distance:	3m
Test item:	Radiated Emission	Power:	DC 3.8V
Model Number:	LE910-SV V2	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Band:	LTE Band 4	Date:	06/18/2015
Channel Bandwidth:	15 MHz	Test By:	Eric Ou Yang
Modulation Technology:	QPSK		
Frequency:	1732.5 MHz		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	7360.000	-75.20	25.89	-49.31	-13.00	-36.31	peak	H
1	2932.000	-70.12	13.90	-56.22	-13.00	-43.22	peak	V

Standard:	FCC Part 27	Test Distance:	3m
Test item:	Radiated Emission	Power:	DC 3.8V
Model Number:	LE910-SV V2	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Band:	LTE Band 4	Date:	06/18/2015
Channel Bandwidth:	15 MHz	Test By:	Eric Ou Yang
Modulation Technology:	QPSK		
Frequency:	1747.5 MHz		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	6316.000	-75.29	23.02	-52.27	-13.00	-39.27	peak	H
1	5644.000	-74.97	21.47	-53.50	-13.00	-40.50	peak	V

Standard:	FCC Part 27	Test Distance:	3m
Test item:	Radiated Emission	Power:	DC 3.8V
Model Number:	LE910-SV V2	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Band:	LTE Band 4	Date:	06/18/2015
Channel Bandwidth:	20 MHz	Test By:	Eric Ou Yang
Modulation Technology:	QPSK		
Frequency:	1720.0 MHz		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	8464.000	-76.04	25.86	-50.18	-13.00	-37.18	peak	H
1	7252.000	-73.94	25.64	-48.30	-13.00	-35.30	peak	V

Standard:	FCC Part 27	Test Distance:	3m
Test item:	Radiated Emission	Power:	DC 3.8V
Model Number:	LE910-SV V2	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Band:	LTE Band 4	Date:	06/18/2015
Channel Bandwidth:	20 MHz	Test By:	Eric Ou Yang
Modulation Technology:	QPSK		
Frequency:	1732.5 MHz		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	5680.000	-73.49	21.54	-51.95	-13.00	-38.95	peak	H
1	8836.000	-76.63	26.57	-50.06	-13.00	-37.06	peak	V

Standard:	FCC Part 27	Test Distance:	3m
Test item:	Radiated Emission	Power:	DC 3.8V
Model Number:	LE910-SV V2	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Band:	LTE Band 4	Date:	06/18/2015
Channel Bandwidth:	20 MHz	Test By:	Eric Ou Yang
Modulation Technology:	QPSK		
Frequency:	1745.0 MHz		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	5836.000	-74.21	21.80	-52.41	-13.00	-39.41	peak	H
1	9088.000	-75.35	27.24	-48.11	-13.00	-35.11	peak	V

Standard:	FCC Part 27	Test Distance:	3m
Test item:	Radiated Emission	Power:	DC 3.8V
Model Number:	LE910-SV V2	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Band:	LTE Band 4	Date:	06/18/2015
Channel Bandwidth:	1.4 MHz	Test By:	Eric Ou Yang
Modulation Technology:	16QAM		
Frequency:	1732.5 MHz		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	5644.000	-73.95	21.47	-52.48	-13.00	-39.48	peak	H
1	4696.000	-73.81	19.56	-54.25	-13.00	-41.25	peak	V

Standard:	FCC Part 27	Test Distance:	3m
Test item:	Radiated Emission	Power:	DC 3.8V
Model Number:	LE910-SV V2	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Band:	LTE Band 4	Date:	06/18/2015
Channel Bandwidth:	3 MHz	Test By:	Eric Ou Yang
Modulation Technology:	16QAM		
Frequency:	1732.5 MHz		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	5284.000	-74.79	20.92	-53.87	-13.00	-40.87	peak	H
1	6472.000	-74.23	23.49	-50.74	-13.00	-37.74	peak	V

Standard:	FCC Part 27	Test Distance:	3m
Test item:	Radiated Emission	Power:	DC 3.8V
Model Number:	LE910-SV V2	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Band:	LTE Band 4	Date:	06/18/2015
Channel Bandwidth:	5 MHz	Test By:	Eric Ou Yang
Modulation Technology:	16QAM		
Frequency:	1732.5 MHz		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	6496.000	-74.15	23.56	-50.59	-13.00	-37.59	peak	H
1	5020.000	-73.22	20.52	-52.70	-13.00	-39.70	peak	V

Standard:	FCC Part 27	Test Distance:	3m
Test item:	Radiated Emission	Power:	DC 3.8V
Model Number:	LE910-SV V2	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Band:	LTE Band 4	Date:	06/18/2015
Channel Bandwidth:	10 MHz	Test By:	Eric Ou Yang
Modulation Technology:	16QAM		
Frequency:	1732.5 MHz		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	6448.000	-74.87	23.42	-51.45	-13.00	-38.45	peak	H
1	6004.000	-74.77	22.09	-52.68	-13.00	-39.68	peak	V

Standard:	FCC Part 27	Test Distance:	3m
Test item:	Radiated Emission	Power:	DC 3.8V
Model Number:	LE910-SV V2	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Band:	LTE Band 4	Date:	06/18/2015
Channel Bandwidth:	15 MHz	Test By:	Eric Ou Yang
Modulation Technology:	16QAM		
Frequency:	1732.5 MHz		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	3256.000	-70.08	15.38	-54.70	-13.00	-41.70	peak	H
1	7420.000	-74.25	26.03	-48.22	-13.00	-35.22	peak	V

Standard:	FCC Part 27	Test Distance:	3m
Test item:	Radiated Emission	Power:	DC 3.8V
Model Number:	LE910-SV V2	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Band:	LTE Band 4	Date:	06/18/2015
Channel Bandwidth:	20 MHz	Test By:	Eric Ou Yang
Modulation Technology:	16QAM		
Frequency:	1732.5 MHz		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	4996.000	-73.60	20.48	-53.12	-13.00	-40.12	peak	H
1	6304.000	-74.94	22.99	-51.95	-13.00	-38.95	peak	V

Standard:	FCC Part 27	Test Distance:	3m
Test item:	Radiated Emission	Power:	DC 3.8V
Model Number:	LE910-SV V2	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Band:	LTE Band 13	Date:	06/18/2015
Channel Bandwidth:	5 MHz	Test By:	Eric Ou Yang
Modulation Technology:	QPSK		
Frequency:	779.5 MHz		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	3712.000	-72.23	20.50	-51.73	-13.00	-38.73	peak	H
1	7924.000	-73.86	25.51	-48.35	-13.00	-35.35	peak	V

Standard:	FCC Part 27	Test Distance:	3m
Test item:	Radiated Emission	Power:	DC 3.8V
Model Number:	LE910-SV V2	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Band:	LTE Band 13	Date:	06/18/2015
Channel Bandwidth:	5 MHz	Test By:	Eric Ou Yang
Modulation Technology:	QPSK		
Frequency:	782.0 MHz		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	6796.000	-73.46	25.01	-48.45	-13.00	-35.45	peak	H
1	5200.000	-72.16	23.29	-48.87	-13.00	-35.87	peak	V

Standard:	FCC Part 27	Test Distance:	3m
Test item:	Radiated Emission	Power:	DC 3.8V
Model Number:	LE910-SV V2	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Band:	LTE Band 13	Date:	06/18/2015
Channel Bandwidth:	5 MHz	Test By:	Eric Ou Yang
Modulation Technology:	QPSK		
Frequency:	784.5 MHz		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	6292.000	-75.18	24.64	-50.54	-13.00	-37.54	peak	H
1	3076.000	-69.41	18.72	-50.69	-13.00	-37.69	peak	V

Standard:	FCC Part 27	Test Distance:	3m
Test item:	Radiated Emission	Power:	DC 3.8V
Model Number:	LE910-SV V2	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Band:	LTE Band 13	Date:	06/18/2015
Channel Bandwidth:	10 MHz	Test By:	Eric Ou Yang
Modulation Technology:	QPSK		
Frequency:	782.0 MHz		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	6124.000	-75.60	24.60	-51.00	-13.00	-38.00	peak	H
1	4732.000	-73.89	22.55	-51.34	-13.00	-38.34	peak	V

Standard:	FCC Part 27	Test Distance:	3m
Test item:	Radiated Emission	Power:	DC 3.8V
Model Number:	LE910-SV V2	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Band:	LTE Band 13	Date:	06/18/2015
Channel Bandwidth:	5 MHz	Test By:	Eric Ou Yang
Modulation Technology:	16QAM		
Frequency:	782.0 MHz		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	5920.000	-75.18	24.44	-50.74	-13.00	-37.74	peak	H
1	9064.000	-75.37	26.45	-48.92	-13.00	-35.92	peak	V

Standard:	FCC Part 27	Test Distance:	3m
Test item:	Radiated Emission	Power:	DC 3.8V
Model Number:	LE910-SV V2	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Band:	LTE Band 13	Date:	06/18/2015
Channel Bandwidth:	10 MHz	Test By:	Eric Ou Yang
Modulation Technology:	16QAM		
Frequency:	782.0 MHz		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	2620.000	-69.93	17.65	-52.28	-13.00	-39.28	peak	H
1	7696.000	-74.06	25.41	-48.65	-13.00	-35.65	peak	V

Standard:	FCC Part 27.53_1559-1610MHz	Test Distance:	3m
Test item:	Radiated Emission	Power:	DC 3.8V
Model Number:	LE910-SV V2	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Band:	LTE Band 13	Date:	06/18/2015
Channel Bandwidth:	5 MHz	Test By:	Eric Ou Yang
Modulation Technology:	QPSK		
Frequency:	779.5 MHz		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	1571.852	-69.05	11.72	-57.33	-40.00	-17.33	peak	H
1	1586.795	-69.45	11.90	-57.55	-40.00	-17.55	peak	V

Standard:	FCC Part 27.53_1559-1610MHz	Test Distance:	3m
Test item:	Radiated Emission	Power:	DC 3.8V
Model Number:	LE910-SV V2	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Band:	LTE Band 13	Date:	06/18/2015
Channel Bandwidth:	5 MHz	Test By:	Eric Ou Yang
Modulation Technology:	QPSK		
Frequency:	782.0 MHz		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	1575.371	-68.22	11.77	-56.45	-40.00	-16.45	peak	H
1	1588.070	-68.56	11.92	-56.64	-40.00	-16.64	peak	V

Standard:	FCC Part 27.53_1559-1610MHz	Test Distance:	3m
Test item:	Radiated Emission	Power:	DC 3.8V
Model Number:	LE910-SV V2	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Band:	LTE Band 13	Date:	06/18/2015
Channel Bandwidth:	5 MHz	Test By:	Eric Ou Yang
Modulation Technology:	QPSK		
Frequency:	784.5 MHz		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	1592.711	-69.54	11.97	-57.57	-40.00	-17.57	peak	H
1	1566.548	-68.51	11.66	-56.85	-40.00	-16.85	peak	V

Standard:	FCC Part 27.53_1559-1610MHz	Test Distance:	3m
Test item:	Radiated Emission	Power:	DC 3.8V
Model Number:	LE910-SV V2	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Band:	LTE Band 13	Date:	06/18/2015
Channel Bandwidth:	10 MHz	Test By:	Eric Ou Yang
Modulation Technology:	QPSK		
Frequency:	782.0 MHz		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	1583.378	-69.45	11.87	-57.58	-40.00	-17.58	peak	H
1	1596.638	-68.00	12.01	-55.99	-40.00	-15.99	peak	V

Standard:	FCC Part 27.53_1559-1610MHz	Test Distance:	3m
Test item:	Radiated Emission	Power:	DC 3.8V
Model Number:	LE910-SV V2	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Band:	LTE Band 13	Date:	06/18/2015
Channel Bandwidth:	5 MHz	Test By:	Eric Ou Yang
Modulation Technology:	16QAM		
Frequency:	782.0 MHz		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	1576.289	-68.92	11.78	-57.14	-40.00	-17.14	peak	H
1	1590.110	-68.99	11.93	-57.06	-40.00	-17.06	peak	V

Standard:	FCC Part 27.53_1559-1610MHz	Test Distance:	3m
Test item:	Radiated Emission	Power:	DC 3.8V
Model Number:	LE910-SV V2	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Band:	LTE Band 13	Date:	06/18/2015
Channel Bandwidth:	10 MHz	Test By:	Eric Ou Yang
Modulation Technology:	16QAM		
Frequency:	782.0 MHz		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	1580.930	-69.08	11.83	-57.25	-40.00	-17.25	peak	H
1	1575.779	-68.69	11.77	-56.92	-40.00	-16.92	peak	V