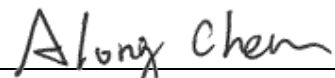


FCC/IC Test Report

FCC ID : RI7LE910C1NS
IC : 5131A-LE910C1NS
Equipment : LTE Module
Model No. : LE910C1-NS
Brand Name : Telit
Applicant : TELIT COMMUNICATIONS S.P.A.
Address : Viale Stazione di Prosecco 5/B, Trieste 34010
Italy
Standard : 47 CFR FCC Part 24 Subpart E
RSS-133 Issue 6 January 2013
Received Date : Apr. 07, 2017
Tested Date : Apr. 07 ~ Apr. 18, 2017

We, International Certification Corp., would like to declare that the tested sample has been evaluated and in compliance with the requirement of the above standards. The test results contained in this report refer exclusively to the product. It may be duplicated completely for legal use with the approval of the applicant. It shall not be reproduced except in full without the written approval of our laboratory.

Reviewed by:



Along Chen / Assistant Manager

Approved by:



Gary Chang / Manager



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Release Record

Report No.	Version	Description	Issued Date
FG740703P24-1	Rev. 01	Initial issue	May 02, 2017

Summary of Test Results

FCC Rules	IC Rules	Test Items	Measured	Result
2.1046 / 24.232(c)	RSS-133 Section 6.4	Equivalent Isotropically Radiated Power	Power[dBm]: 25.67	Pass
2.1053 / 24.238(a)	RSS-133 Section 6.5	Radiated Emissions	Meet the requirement of limit	Pass
2.1051 / 24.238(a)	RSS-133 Section 6.5	Conducted Emissions	Meet the requirement of limit	Pass
2.1051 / 24.238(a)	RSS-133 Section 6.5	Band Edge	Meet the requirement of limit	Pass
2.1049 / 24.238(b)	RSS-133 Section 6.5	Occupied Bandwidth	Meet the requirement of limit	Pass
2.1051 / 24.232(d)	RSS-133 Section 6.4	Peak to Average Ratio	Meet the requirement of limit	Pass
2.1055 / 24.235	RSS-133 Section 6.3	Frequency Stability	Meet the requirement of limit	Pass

1 General Description

1.1 Information

1.1.1 Specification of the Equipment under Test (EUT)

Operating Frequency (MHz)	LTE Band 25: Channel Bandwidth: 1.4MHz: 1850.7 ~ 1914.3 MHz Channel Bandwidth: 3MHz: 1851.5 MHz ~ 1913.5 MHz Channel Bandwidth: 5MHz: 1852.5 MHz ~ 1912.5 MHz Channel Bandwidth: 10MHz: 1855.0 MHz ~ 1910.0 MHz Channel Bandwidth: 15MHz: 1857.5 MHz ~ 1907.5 MHz Channel Bandwidth: 20MHz: 1860.0 MHz ~ 1905.0 MHz
Modulation	QPSK, 16QAM (Uplink)
Release Version	10
Duplex Mode	FDD
UE Category	Cat. 1
H/W Version	CS1762C
S/W Version	25.00.241

1.1.2 Maximum EIRP and Emission Designator

Mode	Modulation	Maximum EIRP (W)	Emission Designator
LTE Band 25, CB: 1.4MHz	QPSK	0.359	1M08G7D
LTE Band 25, CB: 1.4MHz	16QAM	0.287	1M08W7D
LTE Band 25, CB: 3MHz	QPSK	0.362	2M69G7D
LTE Band 25, CB: 3MHz	16QAM	0.303	2M69W7D
LTE Band 25, CB: 5MHz	QPSK	0.362	4M48G7D
LTE Band 25, CB: 5MHz	16QAM	0.285	4M48W7D
LTE Band 25, CB: 10MHz	QPSK	0.369	8M92G7D
LTE Band 25, CB: 10MHz	16QAM	0.339	4M93W7D
LTE Band 25, CB: 15MHz	QPSK	0.361	13M4G7D
LTE Band 25, CB: 15MHz	16QAM	0.329	5M07W7D
LTE Band 25, CB: 20MHz	QPSK	0.346	17M9G7D
LTE Band 25, CB: 20MHz	16QAM	0.246	5M17W7D

1.1.3 Antenna Details

Ant. No.	Type	Connector	Gain (dBi)	Remark
1	Dipole	R-SMA	1.71	---

1.1.4 EUT Operational Condition

Supply Voltage	3.8Vdc from host		
Operational Voltage	<input checked="" type="checkbox"/> Vnom (3.8 V)	<input checked="" type="checkbox"/> Vmax (4.2 V)	<input checked="" type="checkbox"/> Vmin (3.4 V)
Operational Climatic	<input checked="" type="checkbox"/> Tnom (20°C)	<input checked="" type="checkbox"/> Tmax (85°C)	<input checked="" type="checkbox"/> Tmin (-40°C)

1.1.5 Accessories

N/A

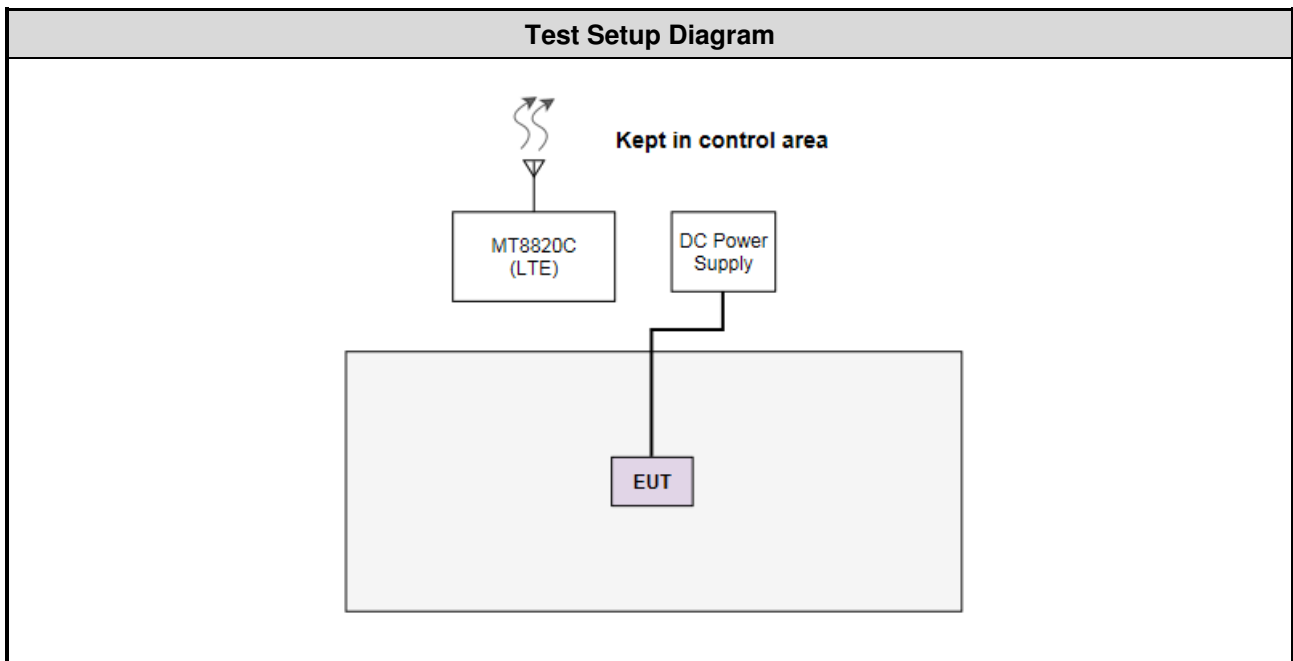
1.1.6 Operating Channel List

LTE Band 25		
Channel Bandwidth (MHz)	Channel	Frequency (MHz)
1.4	26047	1850.7
1.4	26365	1882.5
1.4	26683	1914.3
3	26055	1851.5
3	26365	1882.5
3	26675	1913.5
5	26065	1852.5
5	26365	1882.5
5	26665	1912.5
10	26090	1855.0
10	26365	1882.5
10	26640	1910.0
15	26115	1857.5
15	26365	1882.5
15	26615	1907.5
20	26140	1860.0
20	26365	1882.5
20	26590	1905.0

1.2 Local Support Equipment List

Support Equipment List					
No.	Equipment	Brand	Model	FCC ID	Signal cable / Length (m)
1	DC Power Supply	GW INSTEK	GPC-6030D	---	---

1.3 Test Setup Chart



1.4 The Equipment List

Test Item	RF Conducted				
Test Site	(TH01-WS)				
Instrument	Manufacturer	Model No.	Serial No.	Calibration Date	Calibration Until
Spectrum Analyzer	R&S	FSV40	101063	Mar. 15, 2017	Mar. 14, 2018
Spectrum Analyzer	Agilent	N9010A	MY53400091	Sep. 09, 2016	Sep. 08, 2017
TEMP&HUMIDITY CHAMBER	GIANT FORCE	GCT-225-40-SP-SD	MAF1212-002	Nov. 21, 2016	Nov. 20, 2017
Power Meter	Anritsu	ML2495A	1241002	Oct. 06, 2016	Oct. 05, 2017
Power Sensor	Anritsu	MA2411B	1207366	Oct. 06, 2016	Oct. 05, 2017
Radio Communication Analyzer	Anritsu	MT8820C	6201465544	Aug. 19, 2016	Aug. 18, 2017
Measurement Software	Sporton	Sporton_1	1.3.30	NA	NA

Note: Calibration Interval of instruments listed above is one year.

Test Item	Radiated Emission				
Test Site	966 chamber1 / (03CH01-WS)				
Instrument	Manufacturer	Model No.	Serial No.	Calibration Date	Calibration Until
Spectrum Analyzer	R&S	FSV40	101498	Nov. 25, 2016	Nov. 24, 2017
Receiver	R&S	ESR3	101658	Nov. 24, 2016	Nov. 23, 2017
Bilog Antenna	SCHWARZBECK	VULB9168	VULB9168-522	Aug. 04, 2016	Aug. 03, 2017
Horn Antenna 1G-18G	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D 1096	Dec. 21, 2016	Dec. 20, 2017
Horn Antenna 18G-40G	SCHWARZBECK	BBHA 9170	BBHA 9170517	Oct. 25, 2016	Oct. 24, 2017
Loop Antenna	R&S	HFH2-Z2	100330	Nov. 10, 2016	Nov. 09, 2017
Loop Antenna Cable	KOAX KABEL	101354-BW	101354-BW	Dec. 09, 2016	Dec. 08, 2017
Preamplifier	EMC	EMC02325	980225	Aug. 05, 2016	Aug. 04, 2017
Preamplifier	Agilent	83017A	MY39501308	Oct. 06, 2016	Oct. 05, 2017
Preamplifier	EMC	EMC184045B	980192	Aug. 24, 2016	Aug. 23, 2017
RF Cable	HUBER+SUHNER	SUCOFLEX104	MY16014/4	Dec. 09, 2016	Dec. 08, 2017
RF Cable	HUBER+SUHNER	SUCOFLEX104	MY16019/4	Dec. 09, 2016	Dec. 08, 2017
RF Cable	HUBER+SUHNER	SUCOFLEX104	MY16139/4	Dec. 09, 2016	Dec. 08, 2017
LF cable 1M	EMC	EMCCFD400-NM-N M-1000	16052	Dec. 09, 2016	Dec. 08, 2017
LF cable 3M	Woken	CFD400NL-LW	CFD400NL-001	Dec. 09, 2016	Dec. 08, 2017
LF cable 10M	Woken	CFD400NL-LW	CFD400NL-002	Dec. 09, 2016	Dec. 08, 2017
Radio Communication Analyzer	Anritsu	MT8820C	6201465544	Aug. 19, 2016	Aug. 18, 2017
Measurement Software	AUDIX	e3	6.120210g	NA	NA

Note: Calibration Interval of instruments listed above is one year.

1.5 Test Standards

According to the specification of EUT, the EUT must comply with following standards.

47 CFR FCC Part 24 Subpart E

RSS-133 Issue 6 January 2013

RSS-Gen Issue 4 November 2014

SRSP-510 Issue 5 February 2009

ANSI C63.4-2014

ANSI/TIA-603-D 2010

ANSI C63.26-2015

FCC KDB 971168 D01 Power Meas License Digital Systems v02r02

FCC KDB 412172 D01 Determining ERP and EIRP v01r01

1.6 Measurement Uncertainty

ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report. The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor ($k=2$))

Measurement Uncertainty	
Parameters	Uncertainty
Bandwidth	± 34.134 Hz
Conducted power	± 0.808 dB
Frequency error	± 34.134 Hz
Temperature	± 0.6 °C
Conducted emission	± 2.670 dB
AC conducted emission	± 2.90 dB
Radiated emission ≤ 1 GHz	± 3.66 dB
Radiated emission > 1 GHz	± 5.63 dB

2 Test Configuration

2.1 Testing Condition and Location Information

Test Item	Test Site	Ambient Condition	Tested By
Radiated Emissions	03CH01-WS	24°C / 60-62%	Kevin Lee Vincent Yeh
RF Conducted	TH01-WS	22°C / 63%	Alex Huang

- FCC Designation No.: TW2732
- FCC site registration No.: 181692
- IC site registration No.: 10807A-1

2.2 The Worst Test Modes and Channel Details

LTE Band 25			
Test item	Channel Bandwidth	Modulation	Test channel
E.I.R.P	1.4 MHz	QPSK / 16QAM	26047 / 26365 / 26683
Conducted Emissions	3 MHz	QPSK / 16QAM	26055 / 26365 / 26675
Occupied Bandwidth	5 MHz	QPSK / 16QAM	26065 / 26365 / 26665
Peak to Average Ratio	10 MHz	QPSK / 16QAM	26090 / 26365 / 26640
	15 MHz	QPSK / 16QAM	26115 / 26365 / 26615
	20 MHz	QPSK / 16QAM	26140 / 26365 / 26590
Radiated Emission ≤ 1GHz	1.4 MHz	QPSK	26047
	3 MHz	QPSK	26055
	5 MHz	QPSK	26065
	10 MHz	QPSK	26090
	15 MHz	QPSK	26115
	20 MHz	QPSK	26140
Radiated Emission > 1GHz	1.4 MHz	QPSK	26047 / 26365 / 26683
	3 MHz	QPSK	26055 / 26365 / 26675
	5 MHz	QPSK	26065 / 26365 / 26665
	10 MHz	QPSK	26090 / 26365 / 26640
	15 MHz	QPSK	26115 / 26365 / 26615
	20 MHz	QPSK	26140 / 26365 / 26590
Band Edge	1.4 MHz	QPSK / 16QAM	26047 / 26683
	3 MHz	QPSK / 16QAM	26055 / 26675
	5 MHz	QPSK / 16QAM	26065 / 26665
	10 MHz	QPSK / 16QAM	26090 / 26640
	15 MHz	QPSK / 16QAM	26115 / 26615
	20 MHz	QPSK / 16QAM	26140 / 26590
Frequency Stability	1.4 MHz	QPSK	26365
	3 MHz	QPSK	26365
	5 MHz	QPSK	26365
	10 MHz	QPSK	26365
	15 MHz	QPSK	26365
	20 MHz	QPSK	26365

Note:

- The EUT was pretested with 3 orientations placed on the table for the radiated emission measurement – X, Y, and Z-plane. The **Y-plane** results were found as the worst case and were shown in this report.

3 Test Results

3.1 Equivalent Isotropically Radiated Power

3.1.1 Limit of Equivalent Isotropically Radiated Power

Mobile and portable stations are limited to 2 watts EIRP.

3.1.2 Test Procedures

For Conducted power measurement:

1. The EUT links up with simulator and is set to maximum output power level at low / middle / high channel.
2. Measure the output power of low / middle / high channel of the EUT.

For EIRP measurement:

EIPR can be calculated by below formula from KDB 412172 D01.

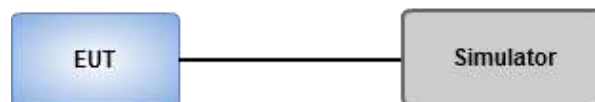
1. $EIRP = P_T + G_T - L_C$

P_T = transmitter output power, in dBm.

G_T = gain of the transmitting antenna, in dBi (EIRP).

L_C = signal attenuation in the connecting cable between the transmitter and antenna, in dB.

3.1.3 Test Setup



3.1.4 Test Result of Equivalent Isotropically Radiated Power (dBm)

Channel Bandwidth: 1.4MHz

Mode	Channel	RB	RB Offset	Conducted Average Power (dBm)	Conducted Power (W)	Ant. Gain (dB)	E.I.R.P Power (dBm)	E.I.R.P Power (W)	E.I.R.P Limit (W)
QPSK	26047	1	0	23.77	0.238	1.71	25.48	0.353	2
		1	2	23.84	0.242	1.71	25.55	0.359	2
		1	5	23.77	0.238	1.71	25.48	0.353	2
		3	0	23.58	0.228	1.71	25.29	0.338	2
		3	1	23.79	0.239	1.71	25.50	0.355	2
		3	2	23.79	0.239	1.71	25.50	0.355	2
		6	0	22.53	0.179	1.71	24.24	0.265	2
	26365	1	0	23.31	0.214	1.71	25.02	0.318	2
		1	2	23.37	0.217	1.71	25.08	0.322	2
		1	5	23.21	0.209	1.71	24.92	0.310	2
		3	0	23.25	0.211	1.71	24.96	0.313	2
		3	1	23.30	0.214	1.71	25.01	0.317	2
		3	2	23.26	0.212	1.71	24.97	0.314	2
		6	0	22.14	0.164	1.71	23.85	0.243	2
	26683	1	0	22.35	0.172	1.71	24.06	0.255	2
		1	2	22.43	0.175	1.71	24.14	0.259	2
		1	5	22.14	0.164	1.71	23.85	0.243	2
		3	0	22.28	0.169	1.71	23.99	0.251	2
		3	1	22.37	0.173	1.71	24.08	0.256	2
		3	2	22.32	0.171	1.71	24.03	0.253	2
		6	0	21.05	0.127	1.71	22.76	0.189	2
16QAM	26047	1	0	22.68	0.185	1.71	24.39	0.275	2
		1	2	22.86	0.193	1.71	24.57	0.286	2
		1	5	22.72	0.187	1.71	24.43	0.277	2
		3	0	22.67	0.185	1.71	24.38	0.274	2
		3	1	22.87	0.194	1.71	24.58	0.287	2
		3	2	22.75	0.188	1.71	24.46	0.279	2
		6	0	21.69	0.148	1.71	23.40	0.219	2
	26365	1	0	22.52	0.179	1.71	24.23	0.265	2
		1	2	22.64	0.184	1.71	24.35	0.272	2
		1	5	22.62	0.183	1.71	24.33	0.271	2
		3	0	22.44	0.175	1.71	24.15	0.260	2
		3	1	22.36	0.172	1.71	24.07	0.255	2
		3	2	22.39	0.173	1.71	24.10	0.257	2
		6	0	21.32	0.136	1.71	23.03	0.201	2
	26683	1	0	21.27	0.134	1.71	22.98	0.199	2
		1	2	21.43	0.139	1.71	23.14	0.206	2
		1	5	20.97	0.125	1.71	22.68	0.185	2
		3	0	21.22	0.132	1.71	22.93	0.196	2
		3	1	21.18	0.131	1.71	22.89	0.195	2
		3	2	21.07	0.128	1.71	22.78	0.190	2
		6	0	20.25	0.106	1.71	21.96	0.157	2

Channel Bandwidth: 3MHz

Mode	Channel	RB	RB Offset	Conducted Average Power (dBm)	Conducted Power (W)	Ant. Gain (dB)	E.I.R.P Power (dBm)	E.I.R.P Power (W)	E.I.R.P Limit (W)
QPSK	26055	1	0	23.55	0.226	1.71	25.26	0.336	2
		1	7	23.88	0.244	1.71	25.59	0.362	2
		1	14	23.68	0.233	1.71	25.39	0.346	2
		8	0	22.62	0.183	1.71	24.33	0.271	2
		8	4	22.71	0.187	1.71	24.42	0.277	2
		8	7	22.62	0.183	1.71	24.33	0.271	2
		15	0	22.59	0.182	1.71	24.30	0.269	2
	26365	1	0	23.25	0.211	1.71	24.96	0.313	2
		1	7	23.40	0.219	1.71	25.11	0.324	2
		1	14	23.23	0.210	1.71	24.94	0.312	2
		8	0	22.26	0.168	1.71	23.97	0.249	2
		8	4	22.20	0.166	1.71	23.91	0.246	2
		8	7	22.23	0.167	1.71	23.94	0.248	2
		15	0	22.23	0.167	1.71	23.94	0.248	2
	26675	1	0	22.32	0.171	1.71	24.03	0.253	2
		1	7	22.45	0.176	1.71	24.16	0.261	2
		1	14	22.30	0.170	1.71	24.01	0.252	2
		8	0	21.17	0.131	1.71	22.88	0.194	2
		8	4	21.14	0.130	1.71	22.85	0.193	2
		8	7	21.12	0.129	1.71	22.83	0.192	2
		15	0	21.23	0.133	1.71	22.94	0.197	2
16QAM	26055	1	0	22.83	0.192	1.71	24.54	0.284	2
		1	7	23.10	0.204	1.71	24.81	0.303	2
		1	14	23.04	0.201	1.71	24.75	0.299	2
		8	0	21.35	0.136	1.71	23.06	0.202	2
		8	4	21.53	0.142	1.71	23.24	0.211	2
		8	7	21.32	0.136	1.71	23.03	0.201	2
		15	0	21.43	0.139	1.71	23.14	0.206	2
	26365	1	0	22.23	0.167	1.71	23.94	0.248	2
		1	7	22.60	0.182	1.71	24.31	0.270	2
		1	14	22.50	0.178	1.71	24.21	0.264	2
		8	0	21.46	0.140	1.71	23.17	0.207	2
		8	4	21.51	0.142	1.71	23.22	0.210	2
		8	7	21.45	0.140	1.71	23.16	0.207	2
		15	0	21.40	0.138	1.71	23.11	0.205	2
	26675	1	0	20.74	0.119	1.71	22.45	0.176	2
		1	7	21.02	0.126	1.71	22.73	0.187	2
		1	14	20.93	0.124	1.71	22.64	0.184	2
		8	0	20.20	0.105	1.71	21.91	0.155	2
		8	4	20.28	0.107	1.71	21.99	0.158	2
		8	7	20.24	0.106	1.71	21.95	0.157	2
		15	0	20.20	0.105	1.71	21.91	0.155	2

Channel Bandwidth: 5MHz

Mode	Channel	RB	RB Offset	Conducted Average Power (dBm)	Conducted Power (W)	Ant. Gain (dB)	E.I.R.P Power (dBm)	E.I.R.P Power (W)	E.I.R.P Limit (W)
QPSK	26065	1	0	23.73	0.236	1.71	25.44	0.350	2
		1	12	23.88	0.244	1.71	25.59	0.362	2
		1	24	23.61	0.230	1.71	25.32	0.340	2
		12	0	22.48	0.177	1.71	24.19	0.262	2
		12	6	22.61	0.182	1.71	24.32	0.270	2
		12	11	22.54	0.179	1.71	24.25	0.266	2
		25	0	22.41	0.174	1.71	24.12	0.258	2
	26365	1	0	23.15	0.207	1.71	24.86	0.306	2
		1	12	23.26	0.212	1.71	24.97	0.314	2
		1	24	23.23	0.210	1.71	24.94	0.312	2
		12	0	22.21	0.166	1.71	23.92	0.247	2
		12	6	22.23	0.167	1.71	23.94	0.248	2
		12	11	22.18	0.165	1.71	23.89	0.245	2
		25	0	22.29	0.169	1.71	24.00	0.251	2
	26665	1	0	22.36	0.172	1.71	24.07	0.255	2
		1	12	22.54	0.179	1.71	24.25	0.266	2
		1	24	22.21	0.166	1.71	23.92	0.247	2
		12	0	21.26	0.134	1.71	22.97	0.198	2
		12	6	21.19	0.132	1.71	22.90	0.195	2
		12	11	21.28	0.134	1.71	22.99	0.199	2
		25	0	21.23	0.133	1.71	22.94	0.197	2
16QAM	26065	1	0	22.67	0.185	1.71	24.38	0.274	2
		1	12	22.84	0.192	1.71	24.55	0.285	2
		1	24	22.38	0.173	1.71	24.09	0.256	2
		12	0	21.54	0.143	1.71	23.25	0.211	2
		12	6	21.55	0.143	1.71	23.26	0.212	2
		12	11	21.31	0.135	1.71	23.02	0.200	2
		25	0	21.31	0.135	1.71	23.02	0.200	2
	26365	1	0	22.04	0.160	1.71	23.75	0.237	2
		1	12	22.37	0.173	1.71	24.08	0.256	2
		1	24	22.17	0.165	1.71	23.88	0.244	2
		12	0	20.91	0.123	1.71	22.62	0.183	2
		12	6	21.27	0.134	1.71	22.98	0.199	2
		12	11	21.17	0.131	1.71	22.88	0.194	2
		25	0	21.19	0.132	1.71	22.90	0.195	2
	26665	1	0	21.34	0.136	1.71	23.05	0.202	2
		1	12	21.43	0.139	1.71	23.14	0.206	2
		1	24	21.16	0.131	1.71	22.87	0.194	2
		12	0	20.23	0.105	1.71	21.94	0.156	2
		12	6	20.29	0.107	1.71	22.00	0.158	2
		12	11	20.21	0.105	1.71	21.92	0.156	2
		25	0	20.25	0.106	1.71	21.96	0.157	2

Channel Bandwidth: 10MHz

Mode	Channel	RB	RB Offset	Conducted Average Power (dBm)	Conducted Power (W)	Ant. Gain (dB)	E.I.R.P Power (dBm)	E.I.R.P Power (W)	E.I.R.P Limit (W)
QPSK	26090	1	0	23.84	0.242	1.71	25.55	0.359	2
		1	24	23.96	0.249	1.71	25.67	0.369	2
		1	49	23.61	0.230	1.71	25.32	0.340	2
		25	0	22.46	0.176	1.71	24.17	0.261	2
		25	12	22.70	0.186	1.71	24.41	0.276	2
		25	24	22.43	0.175	1.71	24.14	0.259	2
	26365	50	0	22.49	0.177	1.71	24.20	0.263	2
		1	0	23.45	0.221	1.71	25.16	0.328	2
		1	24	23.68	0.233	1.71	25.39	0.346	2
		1	49	23.25	0.211	1.71	24.96	0.313	2
		25	0	22.25	0.168	1.71	23.96	0.249	2
		25	12	22.24	0.167	1.71	23.95	0.248	2
	26640	25	24	22.16	0.164	1.71	23.87	0.244	2
		50	0	22.18	0.165	1.71	23.89	0.245	2
		1	0	22.54	0.179	1.71	24.25	0.266	2
		1	24	22.59	0.182	1.71	24.30	0.269	2
		1	49	22.38	0.173	1.71	24.09	0.256	2
		25	0	21.27	0.134	1.71	22.98	0.199	2
16QAM	26090	25	12	21.33	0.136	1.71	23.04	0.201	2
		25	24	21.19	0.132	1.71	22.90	0.195	2
		50	0	21.24	0.133	1.71	22.95	0.197	2
		1	0	22.99	0.199	1.71	24.70	0.295	2
		1	24	23.59	0.229	1.71	25.30	0.339	2
		1	49	22.77	0.189	1.71	24.48	0.281	2
	26365	27	0	21.51	0.142	1.71	23.22	0.210	2
		27	12	21.58	0.144	1.71	23.29	0.213	2
		27	23	21.39	0.138	1.71	23.10	0.204	2
		1	0	22.67	0.185	1.71	24.38	0.274	2
		1	24	22.96	0.198	1.71	24.67	0.293	2
		1	49	22.36	0.172	1.71	24.07	0.255	2
	26640	27	0	21.14	0.130	1.71	22.85	0.193	2
		27	12	21.18	0.131	1.71	22.89	0.195	2
		27	23	21.02	0.126	1.71	22.73	0.187	2
		1	0	20.93	0.124	1.71	22.64	0.184	2
		1	24	21.08	0.128	1.71	22.79	0.190	2
		1	49	20.76	0.119	1.71	22.47	0.177	2
	26640	27	0	20.26	0.106	1.71	21.97	0.157	2
		27	12	20.26	0.106	1.71	21.97	0.157	2
		27	23	20.26	0.106	1.71	21.97	0.157	2
		27	23	20.26	0.106	1.71	21.97	0.157	2

Note: Uplink support to 5Mbps only, RB setup of 16QAM is up to 27RB.

Channel Bandwidth: 15MHz

Mode	Channel	RB	RB Offset	Conducted Average Power (dBm)	Conducted Power (W)	Ant. Gain (dB)	E.I.R.P Power (dBm)	E.I.R.P Power (W)	E.I.R.P Limit (W)
QPSK	26115	1	0	23.59	0.229	1.71	25.30	0.339	2
		1	37	23.87	0.244	1.71	25.58	0.361	2
		1	74	23.54	0.226	1.71	25.25	0.335	2
		36	0	22.65	0.184	1.71	24.36	0.273	2
		36	18	22.54	0.179	1.71	24.25	0.266	2
		36	37	22.42	0.175	1.71	24.13	0.259	2
	26365	75	0	22.38	0.173	1.71	24.09	0.256	2
		1	0	23.32	0.215	1.71	25.03	0.318	2
		1	37	23.72	0.236	1.71	25.43	0.349	2
		1	74	23.06	0.202	1.71	24.77	0.300	2
		36	0	22.15	0.164	1.71	23.86	0.243	2
		36	18	22.23	0.167	1.71	23.94	0.248	2
	26615	36	37	22.03	0.160	1.71	23.74	0.237	2
		75	0	22.14	0.164	1.71	23.85	0.243	2
		1	0	22.18	0.165	1.71	23.89	0.245	2
		1	37	22.41	0.174	1.71	24.12	0.258	2
		1	74	22.20	0.166	1.71	23.91	0.246	2
		36	0	21.37	0.137	1.71	23.08	0.203	2
16QAM	26115	36	18	21.26	0.134	1.71	22.97	0.198	2
		36	37	21.11	0.129	1.71	22.82	0.191	2
		75	0	21.21	0.132	1.71	22.92	0.196	2
		1	0	22.92	0.196	1.71	24.63	0.290	2
		1	37	23.46	0.222	1.71	25.17	0.329	2
		1	74	22.65	0.184	1.71	24.36	0.273	2
	26365	27	0	21.66	0.147	1.71	23.37	0.217	2
		27	12	21.42	0.139	1.71	23.13	0.206	2
		27	23	21.26	0.134	1.71	22.97	0.198	2
		1	0	23.38	0.218	1.71	25.09	0.323	2
		1	37	22.89	0.195	1.71	24.60	0.288	2
		1	74	22.08	0.161	1.71	23.79	0.239	2
	26615	27	0	21.37	0.137	1.71	23.08	0.203	2
		27	12	21.28	0.134	1.71	22.99	0.199	2
		27	23	20.94	0.124	1.71	22.65	0.184	2
		1	0	21.40	0.138	1.71	23.11	0.205	2
		1	37	21.42	0.139	1.71	23.13	0.206	2
		1	74	20.34	0.108	1.71	22.05	0.160	2
26615	27	0	20.31	0.107	1.71	22.02	0.159	2	
	27	12	20.36	0.109	1.71	22.07	0.161	2	
	27	23	20.12	0.103	1.71	21.83	0.152	2	

Note: Uplink support to 5Mbps only, RB setup of 16QAM is up to 27RB.

Channel Bandwidth: 20MHz

Mode	Channel	RB	RB Offset	Conducted Average Power (dBm)	Conducted Power (W)	Ant. Gain (dB)	E.I.R.P Power (dBm)	E.I.R.P Power (W)	E.I.R.P Limit (W)
QPSK	26140	1	0	23.56	0.227	1.71	25.27	0.337	2
		1	49	23.68	0.233	1.71	25.39	0.346	2
		1	99	23.25	0.211	1.71	24.96	0.313	2
		50	0	22.64	0.184	1.71	24.35	0.272	2
		50	24	22.50	0.178	1.71	24.21	0.264	2
		50	49	22.39	0.173	1.71	24.10	0.257	2
	26365	100	0	22.50	0.178	1.71	24.21	0.264	2
		1	0	23.27	0.212	1.71	24.98	0.315	2
		1	49	23.45	0.221	1.71	25.16	0.328	2
		1	99	22.74	0.188	1.71	24.45	0.279	2
		50	0	22.28	0.169	1.71	23.99	0.251	2
		50	24	22.25	0.168	1.71	23.96	0.249	2
	26590	50	49	21.90	0.155	1.71	23.61	0.230	2
		100	0	22.07	0.161	1.71	23.78	0.239	2
		1	0	22.86	0.193	1.71	24.57	0.286	2
		1	49	22.92	0.196	1.71	24.63	0.290	2
		1	99	22.34	0.171	1.71	24.05	0.254	2
		50	0	21.59	0.144	1.71	23.30	0.214	2
16QAM	26140	50	24	21.39	0.138	1.71	23.10	0.204	2
		50	49	21.15	0.130	1.71	22.86	0.193	2
		100	0	21.32	0.136	1.71	23.03	0.201	2
		1	0	22.20	0.166	1.71	23.91	0.246	2
		1	49	21.89	0.155	1.71	23.60	0.229	2
		1	99	21.70	0.148	1.71	23.41	0.219	2
	26365	27	0	21.54	0.143	1.71	23.25	0.211	2
		27	12	21.43	0.139	1.71	23.14	0.206	2
		27	23	21.22	0.132	1.71	22.93	0.196	2
		1	0	21.34	0.136	1.71	23.05	0.202	2
		1	49	21.53	0.142	1.71	23.24	0.211	2
		1	99	21.15	0.130	1.71	22.86	0.193	2
	26590	27	0	21.19	0.132	1.71	22.90	0.195	2
		27	12	21.28	0.134	1.71	22.99	0.199	2
		27	23	21.02	0.126	1.71	22.73	0.187	2
		1	0	21.24	0.133	1.71	22.95	0.197	2
		1	49	21.37	0.137	1.71	23.08	0.203	2
		1	99	20.65	0.116	1.71	22.36	0.172	2
26590	27	0	20.61	0.115	1.71	22.32	0.171	2	
	27	12	20.44	0.111	1.71	22.15	0.164	2	
	27	23	20.13	0.103	1.71	21.84	0.153	2	

Note: Uplink support to 5Mbps only, RB setup of 16QAM is up to 27RB.

3.2 Radiated Emissions

3.2.1 Limit of Radiated Emissions

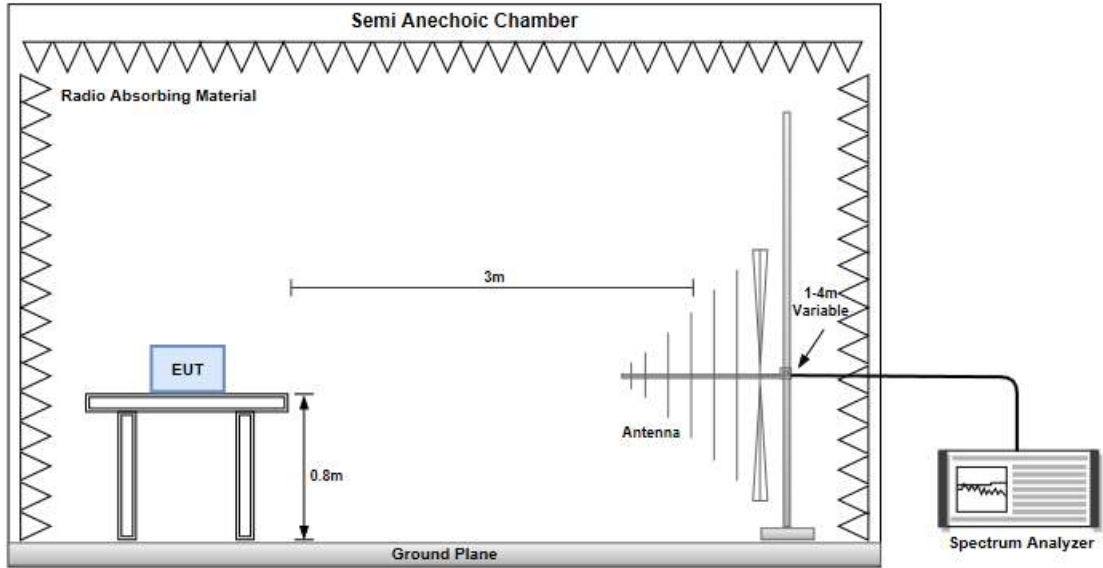
The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB equal to -13dBm.

3.2.2 Test Procedures

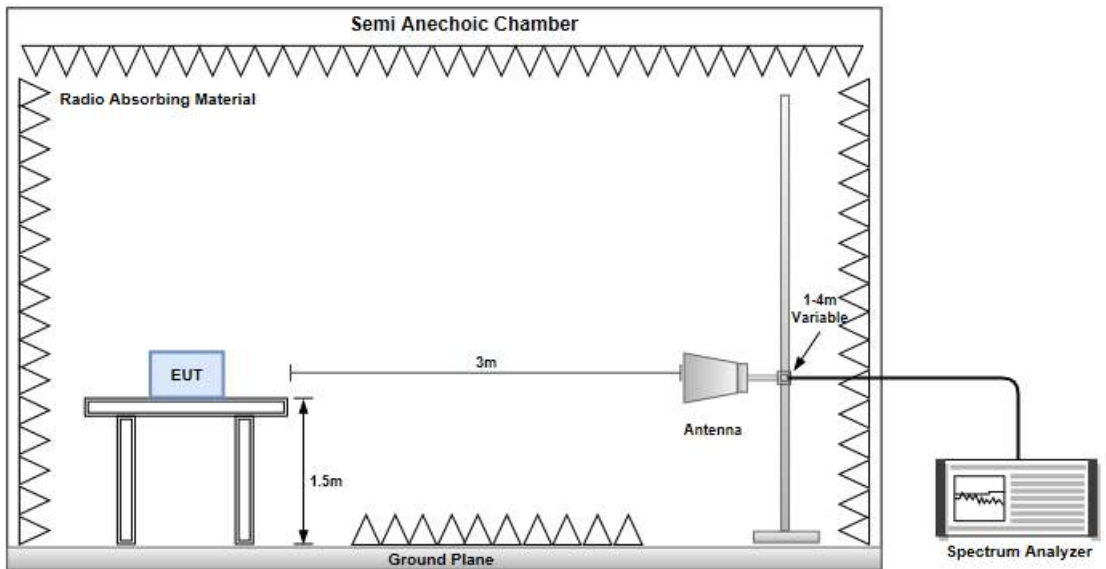
1. Measurement is made at a semi-anechoic chamber that incorporates a turntable allowing a EUT rotation of 360°. A continuously-rotating, remotely-controlled turntable is installed at the test site to support the EUT and facilitate determination of the direction of maximum radiation for each EUT emission frequency. The EUT is placed at test table. For emissions testing at or below 1 GHz, the table height is 80 cm above the reference ground plane. For emission measurements above 1 GHz, the table height is 1.5 m
2. Measurement is made with the antenna positioned in both the horizontal and vertical planes of polarization. The measurement antenna is varied in height (1m ~ 4m) above the reference ground plane to obtain the maximum signal strength. Distance between EUT and antenna is 3 m.
3. This investigation is performed with the EUT rotated 360°, the antenna height scanned between 1 m and 4 m, and the antenna rotated to repeat the measurements for both the horizontal and vertical antenna polarizations.
4. After finding the max radiated emission, substitution method will be used for getting effective radiated power. EUT will be removed and substitution antenna will be placed at same position. Signal generator will output CW signal to substitution antenna through a RF cable. Rotate turntable and move antenna to find maximum radiated emission. Adjust output power of signal generator to let the maximum radiated emission is same as step 3. Record the output power level.
5. E.I.R.P = output power of step 4 + gain of substitution antenna – cable loss of RF cable.

3.2.3 Test Setup

Radiated Emissions below 1 GHz



Radiated Emissions above 1 GHz



3.2.4 Test Result of Radiated Emissions below 1GHz

Mode							
LTE Band 25, CB:1.4MHz, 1RB, Offset 2,Channel:26047							
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
30.97	H	-55.86	-13.00	-42.86	-63.78	-41.89	-13.97
179.38	H	-62.06	-13.00	-49.06	-60.99	-64.28	2.22
293.84	H	-66.32	-13.00	-53.32	-65.19	-70.62	4.30
437.40	H	-63.27	-13.00	-50.27	-66.63	-67.35	4.08
546.04	H	-61.76	-13.00	-48.76	-66.75	-65.74	3.98
659.53	H	-60.86	-13.00	-47.86	-67.39	-64.68	3.82
30.97	V	-57.64	-13.00	-44.64	-55.18	-43.67	-13.97
90.14	V	-60.12	-13.00	-47.12	-60.37	-60.90	0.78
251.16	V	-61.11	-13.00	-48.11	-63.61	-65.57	4.46
411.21	V	63.85	-13.00	76.85	-67.04	59.62	4.23
546.04	V	-59.40	-13.00	-46.40	-66.69	-63.38	3.98
625.58	V	-57.54	-13.00	-44.54	-66.90	-61.24	3.70

Note: EIRP = S.G Power value + Correction factor.

Mode							
LTE Band 25, CB:3MHz, 1RB, Offset 7,Channel:26055							
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
31.94	H	-55.63	-13.00	-42.63	-63.53	-41.90	-13.73
123.12	H	-65.82	-13.00	-52.82	-64.60	-64.91	-0.91
289.96	H	65.96	-13.00	78.96	-64.70	61.64	4.32
446.13	H	-63.28	-13.00	-50.28	-66.75	-67.31	4.03
572.23	H	-61.64	-13.00	-48.64	-67.03	-65.42	3.78
671.17	H	-60.17	-13.00	-47.17	-66.83	-63.96	3.79
32.91	V	-57.30	-13.00	-44.30	-54.88	-43.80	-13.50
90.14	V	-59.31	-13.00	-46.31	-59.56	-60.09	0.78
237.58	V	-61.38	-13.00	-48.38	-63.71	-65.81	4.43
334.58	V	-62.84	-13.00	-49.84	-65.23	-67.16	4.32
503.36	V	-61.29	-13.00	-48.29	-66.61	-65.42	4.13
609.09	V	-57.31	-13.00	-44.31	-66.74	-60.91	3.60

Note: EIRP = S.G Power value + Correction factor.

Mode	LTE Band 25, CB:5MHz, 1RB, Offset 12,Channel:26065						
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
30.97	H	-55.00	-13.00	-42.00	-62.92	-41.03	-13.97
124.09	H	-66.50	-13.00	-53.50	-65.34	-65.56	-0.94
293.84	H	-67.08	-13.00	-54.08	-65.95	-71.38	4.30
440.31	H	-62.74	-13.00	-49.74	-66.14	-66.80	4.06
537.31	H	-62.30	-13.00	-49.30	-67.19	-66.31	4.01
651.77	H	-60.15	-13.00	-47.15	-66.59	-64.00	3.85
45.52	V	-57.24	-13.00	-44.24	-55.22	-45.65	-11.59
90.14	V	-59.91	-13.00	-46.91	-60.16	-60.69	0.78
199.75	V	-61.58	-13.00	-48.58	-63.36	-65.88	4.30
260.86	V	-60.80	-13.00	-47.80	-63.19	-65.22	4.42
502.39	V	-60.91	-13.00	-47.91	-66.19	-65.04	4.13
608.12	V	-58.04	-13.00	-45.04	-67.48	-61.63	3.59

Note: EIRP = S.G Power value + Correction factor.

Mode	LTE Band 25, CB:10MHz, 1RB, Offset 24,Channel:26090						
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
30.97	H	-54.79	-13.00	-41.79	-62.71	-40.82	-13.97
171.62	H	-64.55	-13.00	-51.55	-63.78	-65.78	1.23
292.87	H	-66.06	-13.00	-53.06	-64.89	-70.37	4.31
439.34	H	-63.07	-13.00	-50.07	-66.45	-67.14	4.07
526.64	H	-61.82	-13.00	-48.82	-66.58	-65.87	4.05
633.34	H	-60.95	-13.00	-47.95	-67.17	-64.70	3.75
32.91	V	-58.46	-13.00	-45.46	-56.04	-44.96	-13.50
92.08	V	-60.15	-13.00	-47.15	-60.42	-60.84	0.69
233.70	V	-60.51	-13.00	-47.51	-62.78	-64.93	4.42
430.61	V	-61.68	-13.00	-48.68	-65.17	-65.80	4.12
549.92	V	-60.18	-13.00	-47.18	-67.65	-64.15	3.97
612.97	V	-57.81	-13.00	-44.81	-67.22	-61.43	3.62

Note: EIRP = S.G Power value + Correction factor.

Mode							
LTE Band 25, CB:15MHz, 1RB, Offset 37, Channel:26115							
Frequency (MHz)	Antenna Polarity	E.IR.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
30.97	H	-55.17	-13.00	-42.17	-63.09	-41.20	-13.97
90.14	H	-66.69	-13.00	-53.69	-65.40	-67.47	0.78
291.90	H	-67.47	-13.00	-54.47	-66.27	-71.78	4.31
465.53	H	-63.49	-13.00	-50.49	-67.29	-67.54	4.05
606.18	H	-60.79	-13.00	-47.79	-66.68	-64.37	3.58
761.38	H	-58.28	-13.00	-45.28	-67.44	-61.74	3.46
30.97	V	-57.32	-13.00	-44.32	-54.85	-43.35	-13.97
90.14	V	-59.93	-13.00	-46.93	-60.18	-60.71	0.78
235.64	V	-61.88	-13.00	-48.88	-64.18	-66.30	4.42
440.31	V	-62.55	-13.00	-49.55	-66.18	-66.61	4.06
559.62	V	-58.18	-13.00	-45.18	-66.03	-62.07	3.89
651.77	V	-57.66	-13.00	-44.66	-66.90	-61.51	3.85

Note: EIRP = S.G Power value + Correction factor.

Mode							
LTE Band 25, CB:15MHz, 1RB, Offset 49, Channel:26140							
Frequency (MHz)	Antenna Polarity	E.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
30.97	H	-56.82	-13.00	-43.82	-64.74	-42.85	-13.97
123.12	H	-66.91	-13.00	-53.91	-65.69	-66.00	-0.91
312.27	H	-65.45	-13.00	-52.45	-65.24	-69.74	4.29
462.62	H	-63.15	-13.00	-50.15	-66.89	-67.19	4.04
577.08	H	-61.71	-13.00	-48.71	-67.17	-65.45	3.74
697.36	H	-60.45	-13.00	-47.45	-67.41	-64.17	3.72
32.91	V	-58.99	-13.00	-45.99	-56.57	-45.49	-13.50
90.14	V	-58.07	-13.00	-45.07	-58.32	-58.85	0.78
224.00	V	-55.76	-13.00	-42.76	-57.88	-60.15	4.39
321.00	V	-62.99	-13.00	-49.99	-65.21	-67.30	4.31
515.97	V	-61.09	-13.00	-48.09	-66.99	-65.18	4.09
620.73	V	-56.79	-13.00	-43.79	-66.17	-60.46	3.67

Note: EIRP = S.G Power value + Correction factor.

3.2.5 Test Result of Radiated Emissions above 1GHz

Mode							
LTE Band 25, CB:1.4MHz, 1RB, Offset 2,Channel:26047							
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
3701.40	H	-51.22	-13.00	-38.22	-64.86	-57.94	6.72
5552.10	H	-45.36	-13.00	-32.36	-62.65	-51.59	6.23
7402.80	H	-43.00	-13.00	-30.00	-64.10	-45.91	2.91
3701.40	V	-49.13	-13.00	-36.13	-63.06	-55.85	6.72
5552.10	V	-44.95	-13.00	-31.95	-62.60	-51.18	6.23
7402.80	V	-43.46	-13.00	-30.46	-65.70	-46.37	2.91

Mode							
LTE Band 25, CB:1.4MHz, 1RB, Offset 2,Channel:26365							
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
3765.00	H	-48.81	-13.00	-35.81	-62.52	-55.51	6.70
5647.50	H	-45.22	-13.00	-32.22	-62.70	-51.41	6.19
7530.00	H	-41.86	-13.00	-28.86	-62.62	-44.85	2.99
3765.00	V	-45.32	-13.00	-32.32	-59.36	-52.02	6.70
5647.50	V	-46.12	-13.00	-33.12	-63.99	-52.31	6.19
7530.00	V	-42.55	-13.00	-29.55	-64.37	-45.54	2.99

Mode							
LTE Band 25, CB:1.4MHz, 1RB, Offset 2,Channel:26683							
Frequency (MHz)	Antenna Polarity.	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
3828.60	H	-47.70	-13.00	-34.70	-61.56	-54.38	6.68
5742.90	H	-41.75	-13.00	-28.75	-59.41	-47.87	6.12
7657.20	H	-42.17	-13.00	-29.17	-62.97	-45.22	3.05
3828.60	V	-45.30	-13.00	-32.30	-59.48	-51.98	6.68
5742.90	V	-42.61	-13.00	-29.61	-60.80	-48.73	6.12
7657.20	V	-43.36	-13.00	-30.36	-65.13	-46.41	3.05

Note: EIRP = S.G Power value + Correction factor.

Mode							
LTE Band 25, CB:3MHz, 1RB, Offset 7,Channel:26055							
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
3703.00	H	-48.43	-13.00	-35.43	-62.07	-55.15	6.72
5554.50	H	-44.91	-13.00	-31.91	-62.21	-51.14	6.23
7406.00	H	-41.38	-13.00	-28.38	-62.48	-44.29	2.91
3703.00	V	-45.08	-13.00	-32.08	-59.12	-51.80	6.72
5554.50	V	-45.93	-13.00	-32.93	-63.58	-52.16	6.23
7406.00	V	-42.68	-13.00	-29.68	-64.91	-45.59	2.91

Mode							
LTE Band 25, CB:3MHz, 1RB, Offset 7,Channel:26365							
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
3765.00	H	-48.69	-13.00	-35.69	-62.40	-55.39	6.70
5647.50	H	-45.08	-13.00	-32.08	-62.56	-51.27	6.19
7530.00	H	-41.63	-13.00	-28.63	-62.39	-44.62	2.99
3765.00	V	-45.19	-13.00	-32.19	-59.23	-51.89	6.70
5647.50	V	-45.88	-13.00	-32.88	-63.75	-52.07	6.19
7530.00	V	-42.38	-13.00	-29.38	-64.20	-45.37	2.99

Mode							
LTE Band 25, CB:3MHz, 1RB, Offset 7,Channel:26675							
Frequency (MHz)	Antenna Polarity.	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
3827.00	H	-48.71	-13.00	-35.71	-62.56	-55.39	6.68
5740.50	H	-45.52	-13.00	-32.52	-63.18	-51.64	6.12
7654.00	H	-41.66	-13.00	-28.66	-62.45	-44.71	3.05
3827.00	V	-44.95	-13.00	-31.95	-59.12	-51.63	6.68
5740.50	V	-46.26	-13.00	-33.26	-64.44	-52.38	6.12
7654.00	V	-42.36	-13.00	-29.36	-64.12	-45.41	3.05

Note: EIRP = S.G Power value + Correction factor.

Mode							
LTE Band 25, CB:5MHz, 1RB, Offset 12,Channel:26065							
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
3705.00	H	-48.93	-13.00	-35.93	-62.58	-55.65	6.72
5557.50	H	-45.48	-13.00	-32.48	-62.79	-51.71	6.23
7410.00	H	-41.71	-13.00	-28.71	-62.79	-44.63	2.92
3705.00	V	-45.52	-13.00	-32.52	-59.47	-52.24	6.72
5557.50	V	-46.32	-13.00	-33.32	-63.98	-52.55	6.23
7410.00	V	-42.37	-13.00	-29.37	-64.58	-45.29	2.92

Mode							
LTE Band 25, CB:5MHz, 1RB, Offset 12,Channel:26365							
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
3765.00	H	-48.74	-13.00	-35.74	-62.45	-55.44	6.70
5647.50	H	-45.26	-13.00	-32.26	-62.74	-51.45	6.19
7530.00	H	-41.59	-13.00	-28.59	-62.35	-44.58	2.99
3765.00	V	-45.32	-13.00	-32.32	-59.36	-52.02	6.70
5647.50	V	-46.16	-13.00	-33.16	-64.03	-52.35	6.19
7530.00	V	-42.05	-13.00	-29.05	-63.87	-45.04	2.99

Mode							
LTE Band 25, CB:5MHz, 1RB, Offset 12,Channel:26665							
Frequency (MHz)	Antenna Polarity.	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
3825.00	H	-48.62	-13.00	-35.62	-62.46	-55.30	6.68
5737.50	H	-45.38	-13.00	-32.38	-63.03	-51.51	6.13
7650.00	H	-41.32	-13.00	-28.32	-62.09	-44.37	3.05
3825.00	V	-44.75	-13.00	-31.75	-58.92	-51.43	6.68
5737.50	V	-45.91	-13.00	-32.91	-64.08	-52.04	6.13
7650.00	V	-42.18	-13.00	-29.18	-63.93	-45.23	3.05

Note: EIRP = S.G Power value + Correction factor.

Mode							
LTE Band 25, CB:10MHz, 1RB, Offset 24,Channel:26090							
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
3710.00	H	-48.33	-13.00	-35.33	-61.99	-55.05	6.72
5565.00	H	-44.78	-13.00	-31.78	-62.10	-51.01	6.23
7420.00	H	-41.52	-13.00	-28.52	62.58	-44.44	2.92
3710.00	V	-44.87	-13.00	-31.87	-58.82	-51.59	6.72
5565.00	V	-45.75	-13.00	-32.75	-63.42	-51.98	6.23
7420.00	V	-42.53	-13.00	-29.53	-64.72	-45.45	2.92

Mode							
LTE Band 25, CB:10MHz, 1RB, Offset 24,Channel:26365							
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
3765.00	H	-48.51	-13.00	-35.51	-62.22	-55.21	6.70
5647.50	H	-44.93	-13.00	-31.93	-62.41	-51.12	6.19
7530.00	H	-41.48	-13.00	-28.48	-62.24	-44.47	2.99
3765.00	V	-45.35	-13.00	-32.35	-59.39	-52.05	6.70
5647.50	V	-45.63	-13.00	-32.63	-63.50	-51.82	6.19
7530.00	V	-42.10	-13.00	-29.10	-63.92	-45.09	2.99

Mode							
LTE Band 25, CB:10MHz, 1RB, Offset 24,Channel:26640							
Frequency (MHz)	Antenna Polarity.	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
3820.00	H	-48.86	-13.00	-35.86	-62.68	-55.54	6.68
5730.00	H	-45.71	-13.00	-32.71	-63.34	-51.84	6.13
7640.00	H	-41.48	-13.00	-28.48	-62.21	-44.52	3.04
3820.00	V	-45.18	-13.00	-32.18	-59.33	-51.86	6.68
5730.00	V	-46.08	-13.00	-33.08	-64.22	-52.21	6.13
7640.00	V	-42.19	-13.00	-29.19	-63.91	-45.23	3.04

Note: EIRP = S.G Power value + Correction factor.

Mode							
LTE Band 25, CB:15MHz, 1RB, Offset 37,Channel:26115							
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
3715.00	H	-48.19	-13.00	-35.19	-61.85	-54.91	6.72
5572.50	H	-44.56	-13.00	-31.56	-61.90	-50.79	6.23
7430.00	H	-41.31	-13.00	-28.31	-62.34	-44.24	2.93
3715.00	V	-44.68	-13.00	-31.68	-58.64	-51.40	6.72
5572.50	V	-45.59	-13.00	-32.59	-63.27	-51.82	6.23
7430.00	V	-42.29	-13.00	-29.29	-64.44	-45.22	2.93

Mode							
LTE Band 25, CB:15MHz, 1RB, Offset 37,Channel:26365							
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
3765.00	H	-48.30	-13.00	-35.30	-62.01	-55.00	6.70
5647.50	H	-44.16	-13.00	-31.16	-61.64	-50.35	6.19
7530.00	H	-41.18	-13.00	-28.18	-61.94	-44.17	2.99
3765.00	V	-44.96	-13.00	-31.96	-59.00	-51.66	6.70
5647.50	V	-45.74	-13.00	-32.74	-63.61	-51.93	6.19
7530.00	V	-41.82	-13.00	-28.82	-63.64	-44.81	2.99

Mode							
LTE Band 25, CB:15MHz, 1RB, Offset 37,Channel:26615							
Frequency (MHz)	Antenna Polarity.	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
3815.00	H	-48.00	-13.00	-35.00	-61.81	-54.69	6.69
5722.50	H	-45.42	-13.00	-32.42	-63.04	-51.56	6.14
7630.00	H	-41.16	-13.00	-28.16	-61.86	-44.20	3.04
3815.00	V	-44.93	-13.00	-31.93	-59.07	-51.62	6.69
5722.50	V	-45.86	-13.00	-32.86	-63.98	-52.00	6.14
7630.00	V	-42.03	-13.00	-29.03	-63.73	-45.07	3.04

Note: EIRP = S.G Power value + Correction factor.

Mode							
LTE Band 25, CB:15MHz, 1RB, Offset 49,Channel:26140							
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
3720.00	H	-48.29	-13.00	-35.29	-61.96	-55.01	6.72
5580.00	H	-44.38	-13.00	-31.38	-61.73	-50.61	6.23
7440.00	H	-41.16	-13.00	-28.16	-62.16	-44.09	2.93
3720.00	V	-44.48	-13.00	-31.48	-58.45	-51.20	6.72
5580.00	V	-45.21	-13.00	-32.21	-62.90	-51.44	6.23
7440.00	V	-41.90	-13.00	-28.90	-64.02	-44.83	2.93

Mode							
LTE Band 25, CB:15MHz, 1RB, Offset 49,Channel:26365							
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
3765.00	H	-48.19	-13.00	-35.19	-61.90	-54.89	6.70
5647.50	H	-43.92	-13.00	-30.92	-61.40	-50.11	6.19
7530.00	H	-40.89	-13.00	-27.89	-61.65	-43.88	2.99
3765.00	V	-44.63	-13.00	-31.63	-58.67	-51.33	6.70
5647.50	V	-45.58	-13.00	-32.58	-63.45	-51.77	6.19
7530.00	V	-41.58	-13.00	-28.58	-63.40	-44.57	2.99

Mode							
LTE Band 25, CB:15MHz, 1RB, Offset 49,Channel:26590							
Frequency (MHz)	Antenna Polarity.	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
3810.00	H	-47.91	-13.00	-34.91	-61.70	-54.60	6.69
5715.00	H	-44.26	-13.00	-31.26	-61.87	-50.40	6.14
7620.00	H	-40.82	-13.00	-27.82	-61.49	-43.86	3.04
3810.00	V	-44.69	-13.00	-31.69	-58.82	-51.38	6.69
5715.00	V	-45.63	-13.00	-32.63	-63.73	-51.77	6.14
7620.00	V	-41.92	-13.00	-28.92	-63.60	-44.96	3.04

Note: EIRP = S.G Power value + Correction factor.

3.3 Conducted Emissions

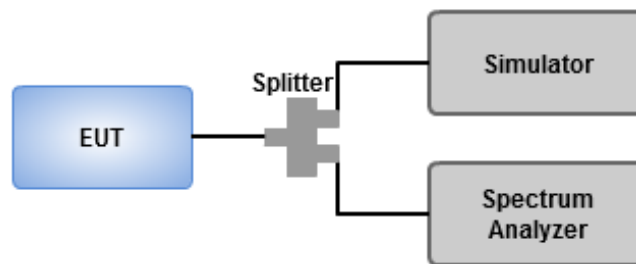
3.3.1 Limit of Conducted Emissions

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 equal to -13dBm.

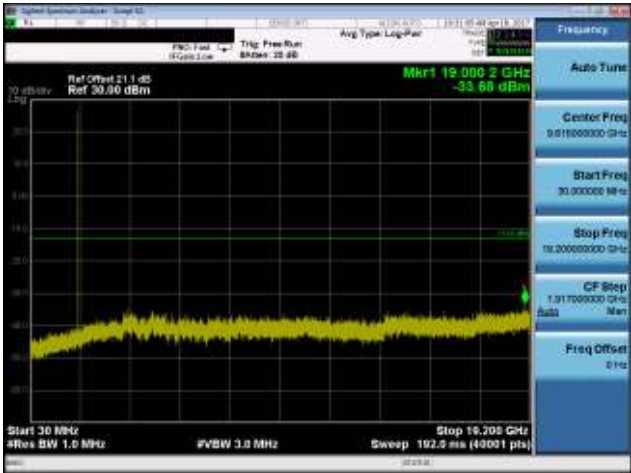
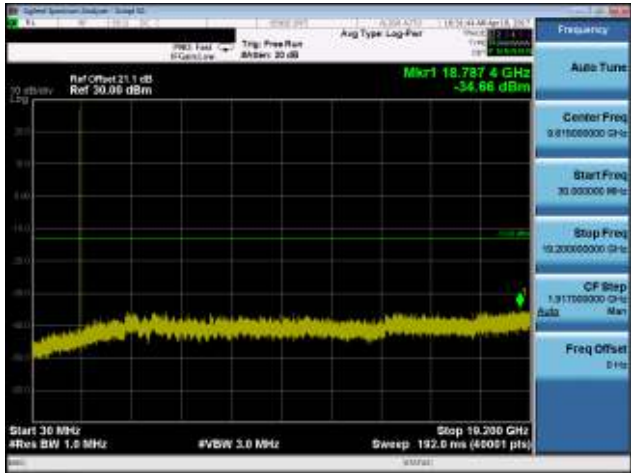
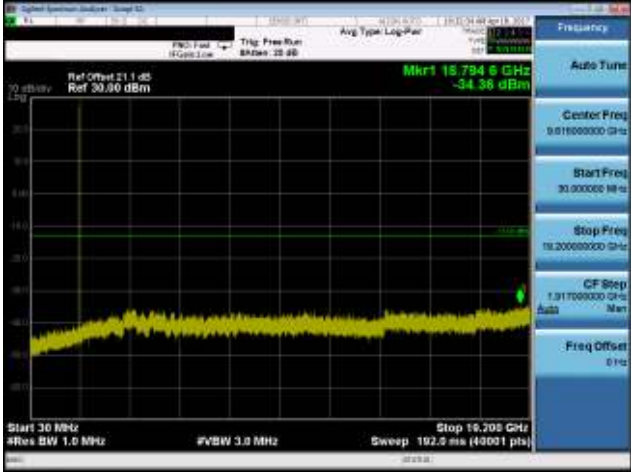
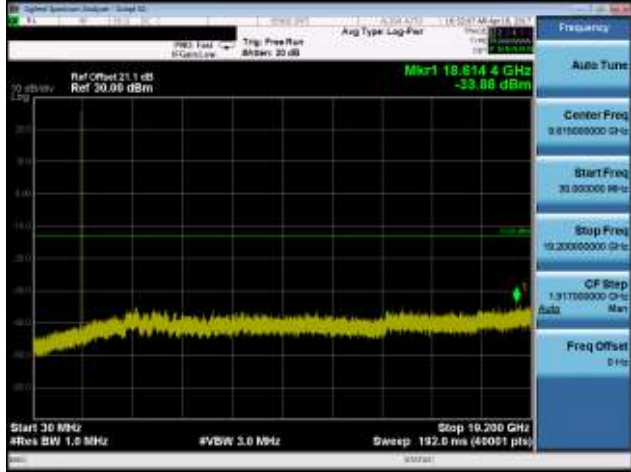
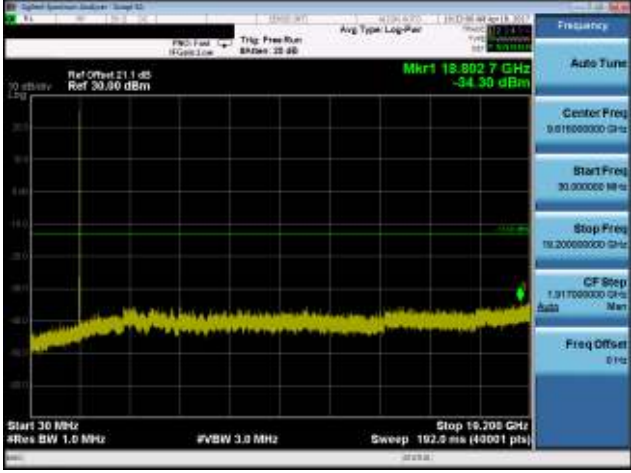
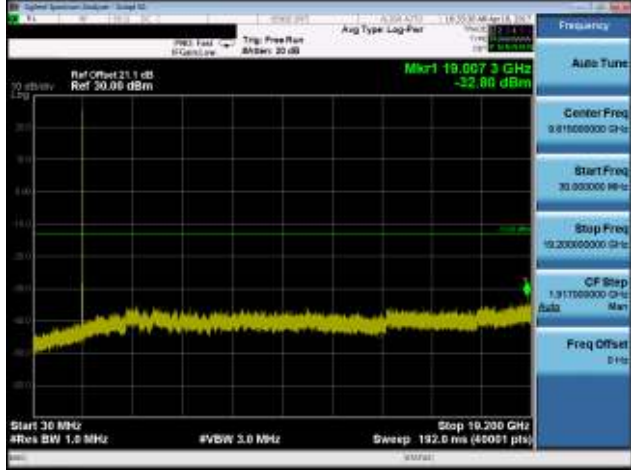
3.3.2 Test Procedures

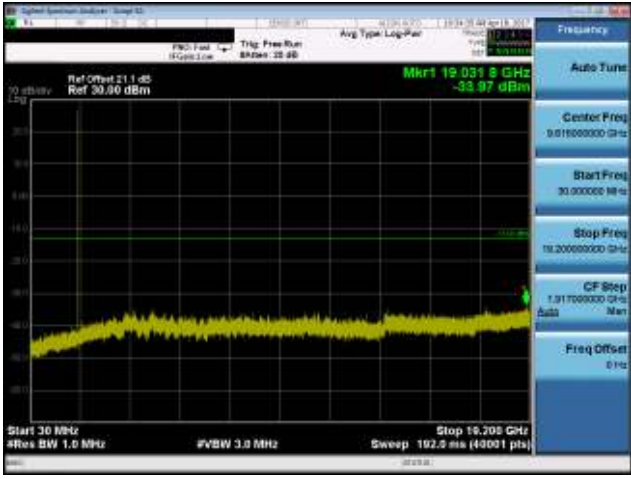
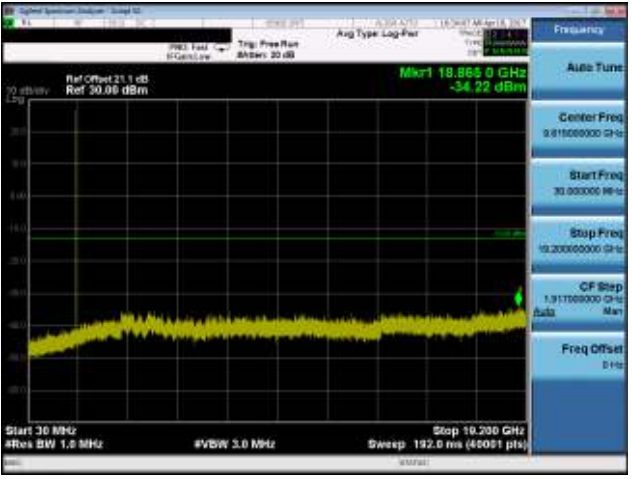
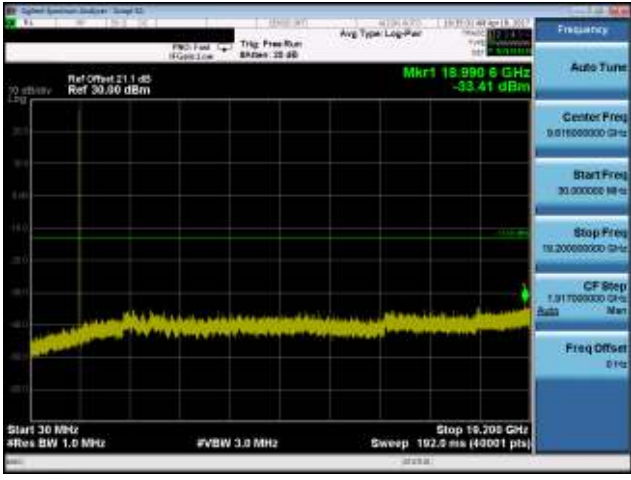
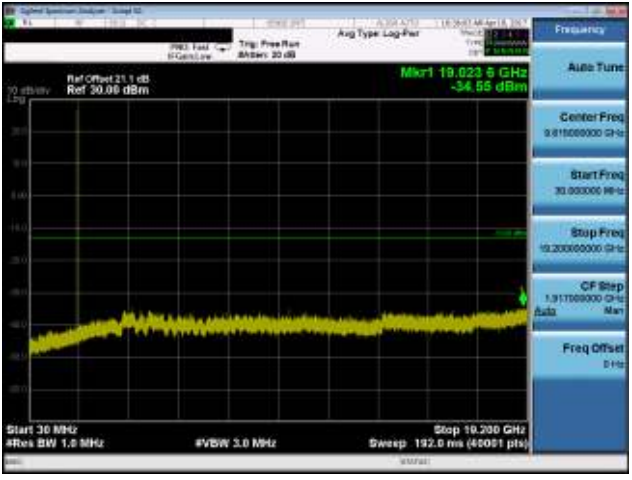
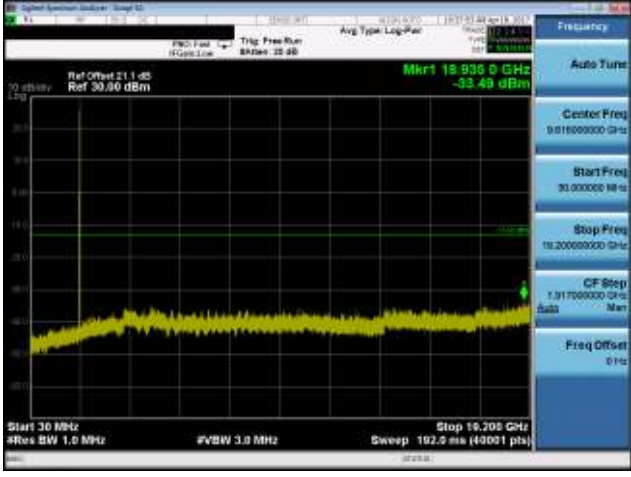
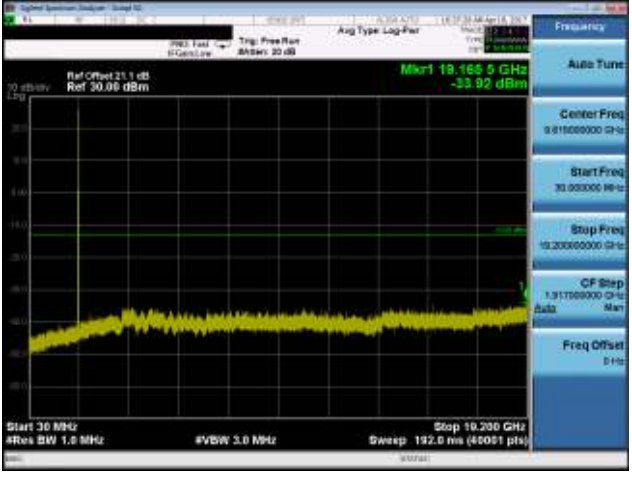
1. Lowest, middle and highest operating channels are tested for this item.
2. Scan frequency range is from 30MHz ~ 19.2GHz.
3. Set RBW = 1MHz, VBW = 3MHz, detector = Peak, sweep time = auto.
4. Record the max trace value and capture the test plot of each sub frequency band.

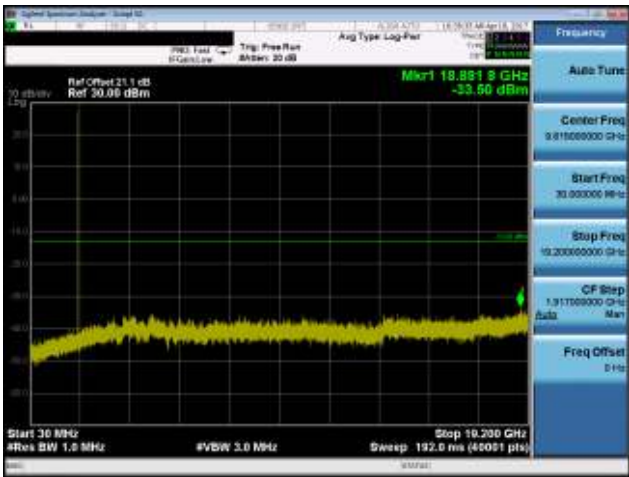
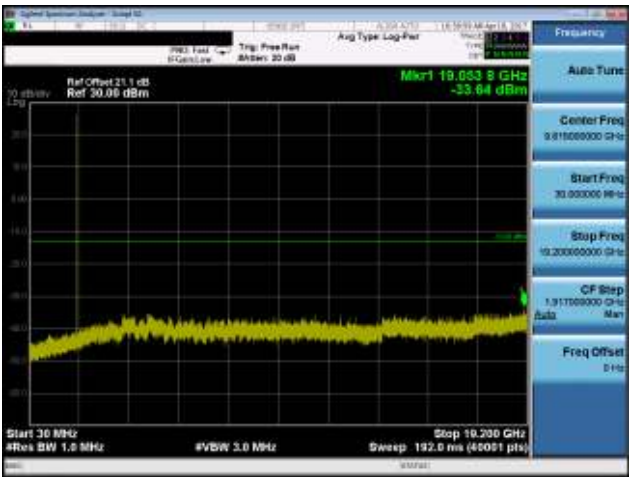
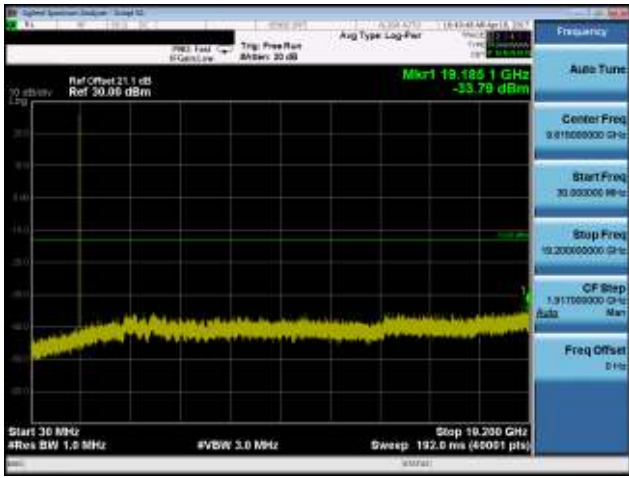
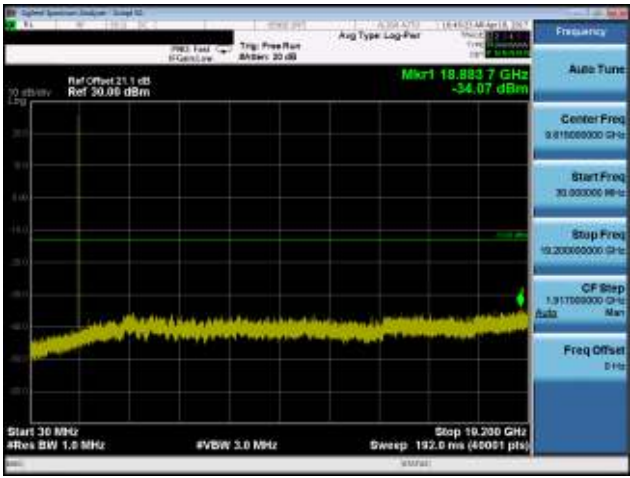
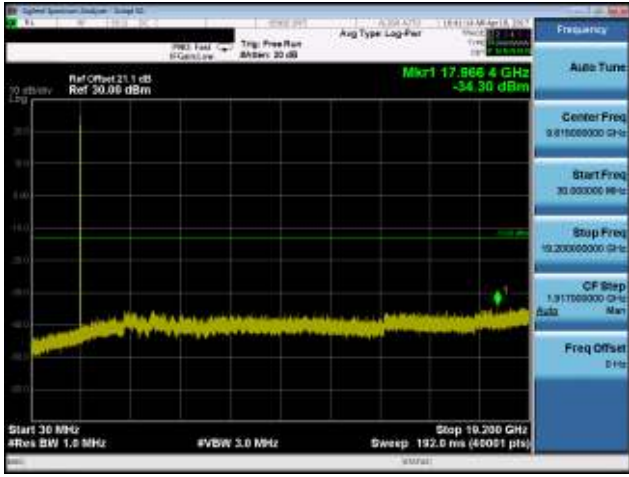
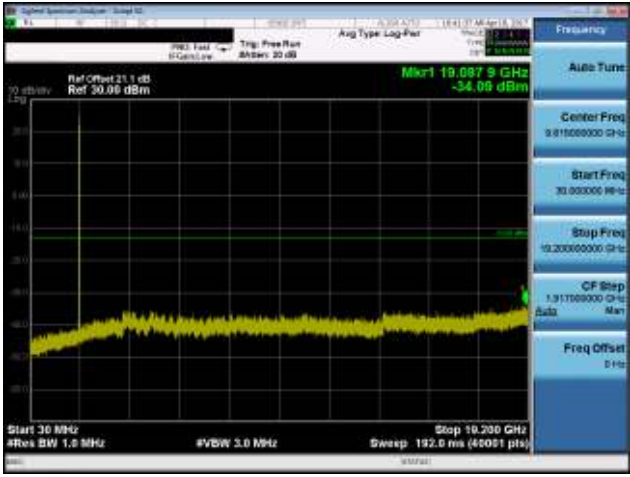
3.3.3 Test Setup

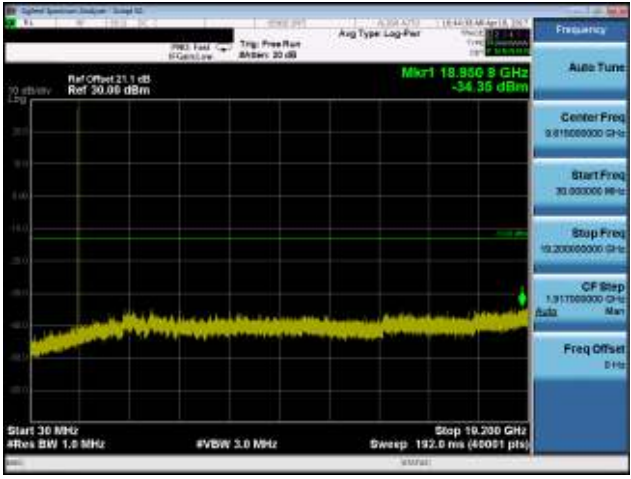
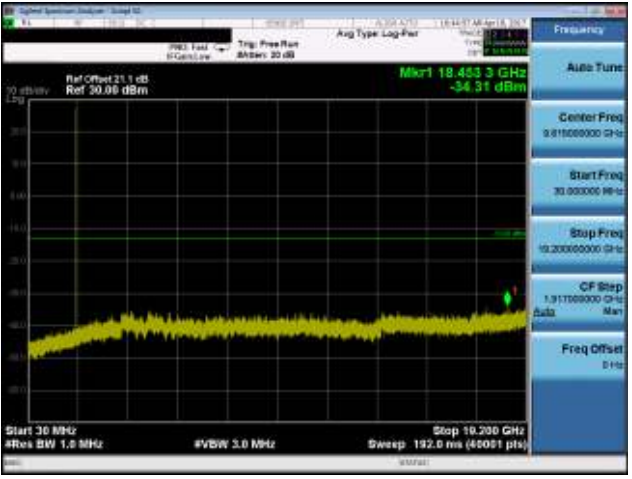
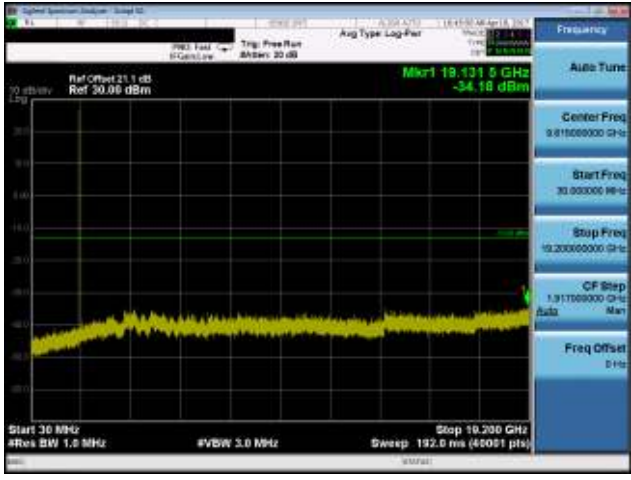
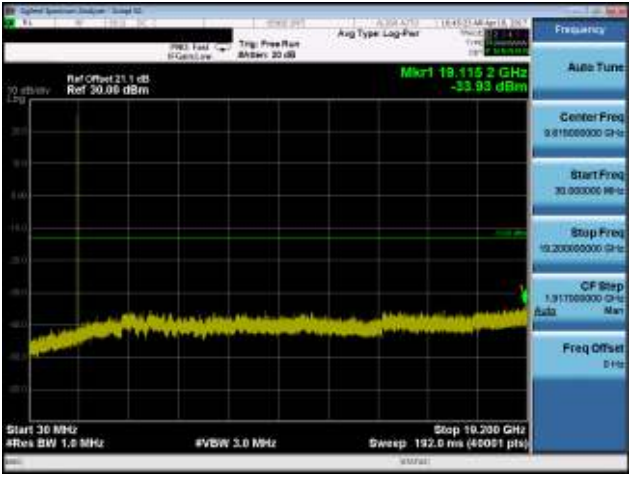
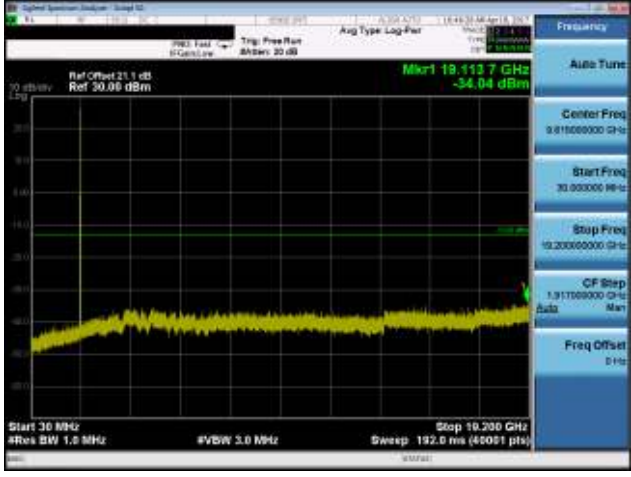
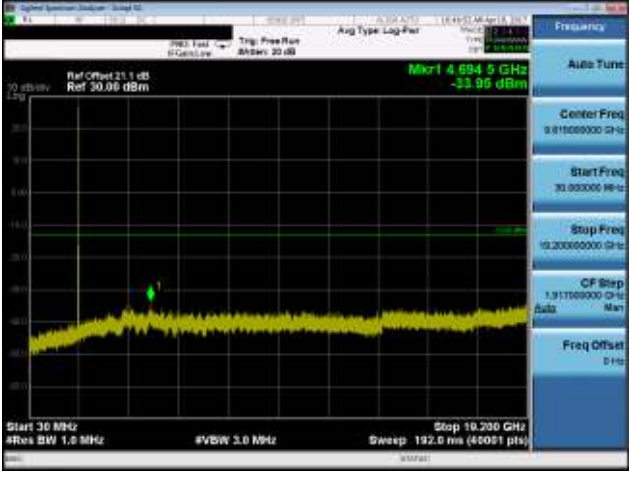


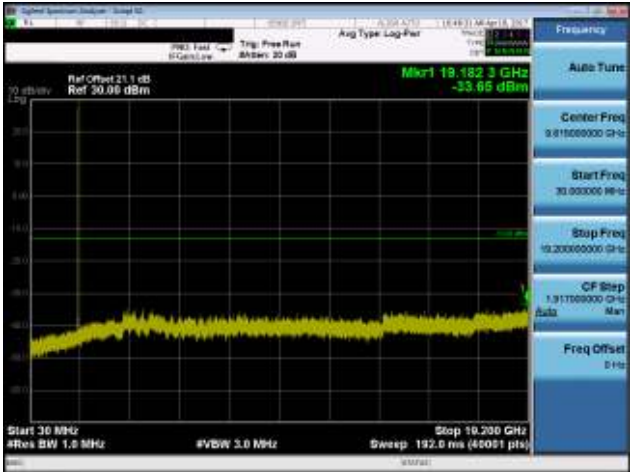
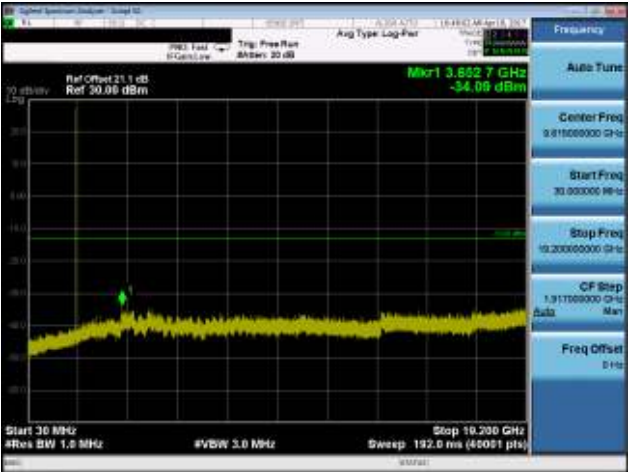
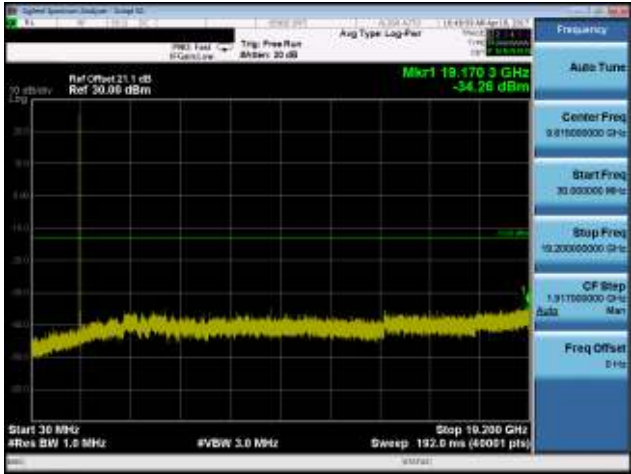
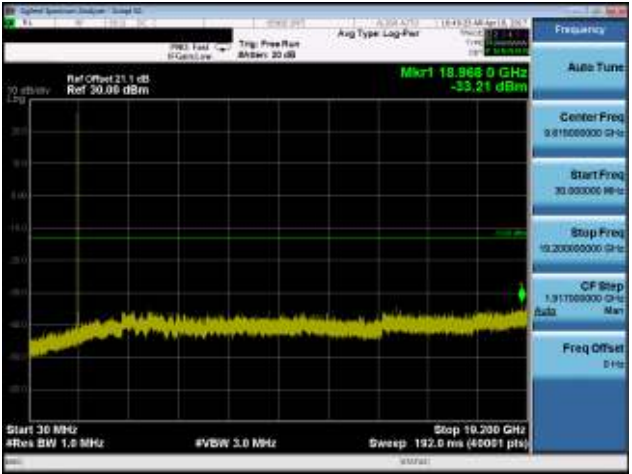
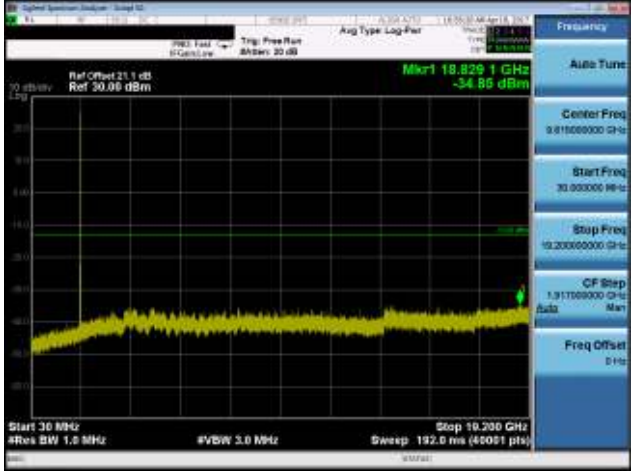
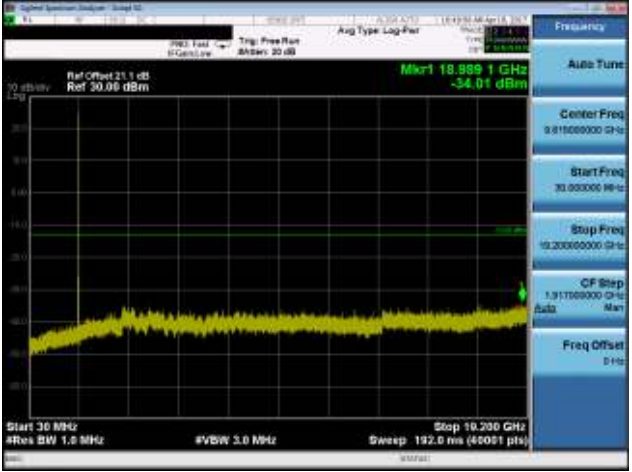
3.3.4 Test Result of Conducted Emissions

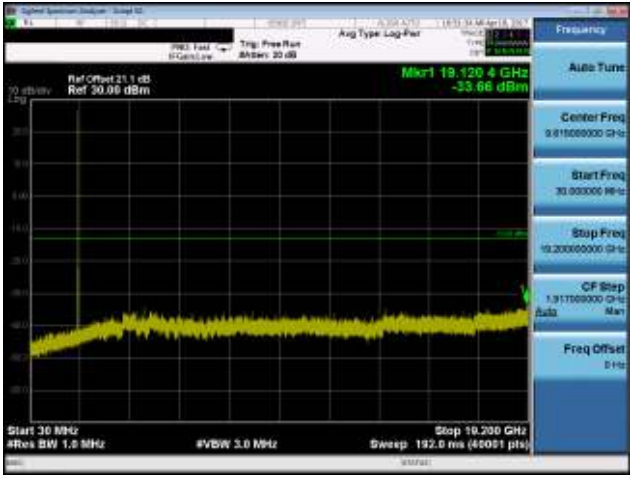
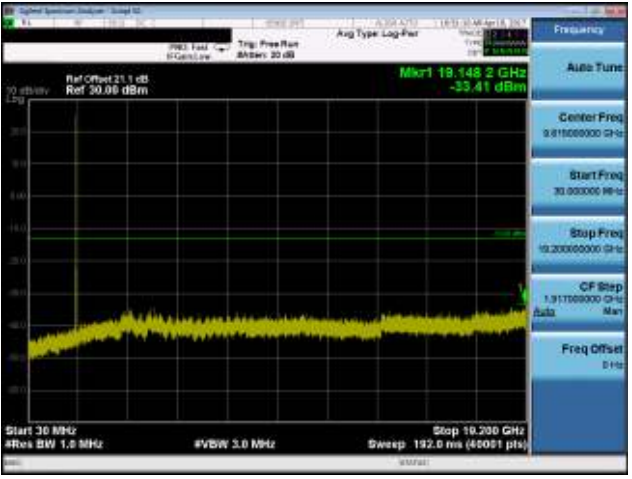
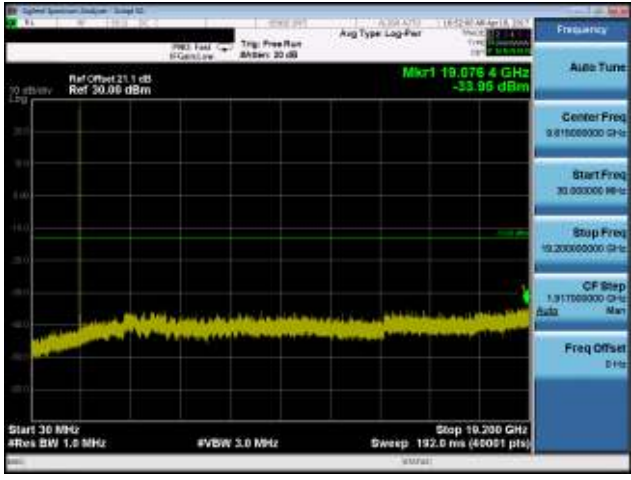
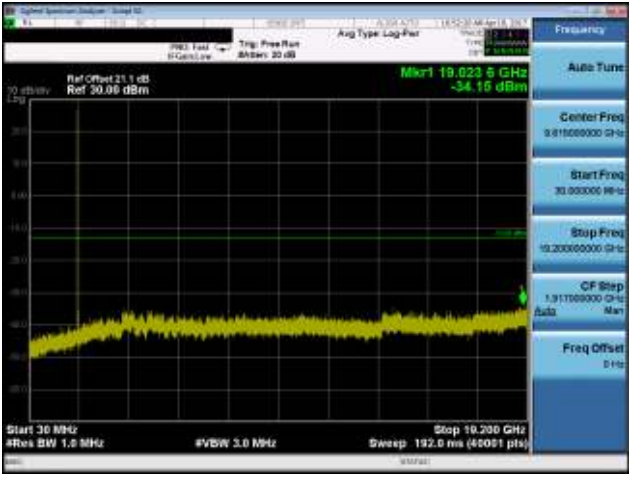
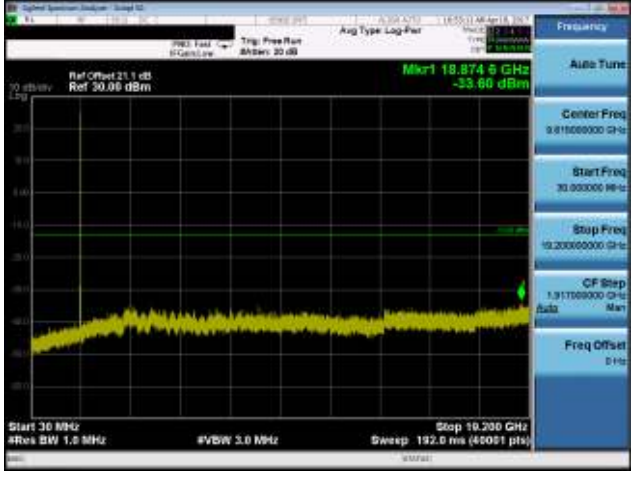
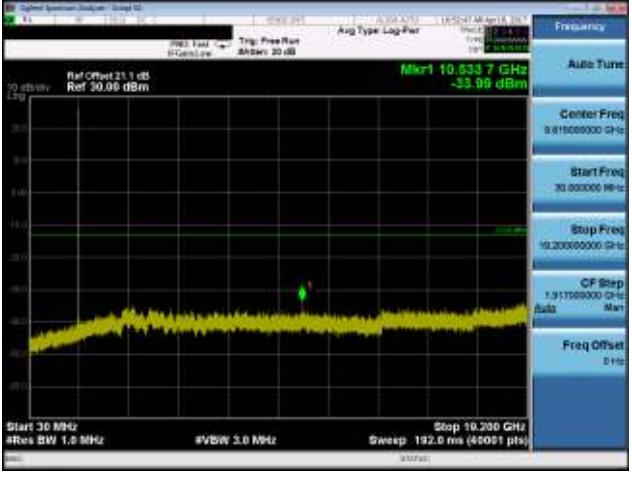
Mode	LTE Band 25, CB: 1.4MHz, QPSK	Mode	LTE Band 25, CB: 1.4MHz, 16QAM
Channel	26047	Channel	26047
			
Channel	26365	Channel	26365
			
Channel	26683	Channel	26683
			

Mode	LTE Band 25, CB: 3MHz, QPSK	Mode	LTE Band 25, CB: 3MHz, 16QAM
Channel	26055	Channel	26055
			
Channel	26365	Channel	26365
			
Channel	26675	Channel	26675
			

Mode	LTE Band 25, CB: 5MHz, QPSK	Mode	LTE Band 25, CB: 5MHz, 16QAM
Channel	26065	Channel	26065
			
Channel	26365	Channel	26365
			
Channel	26665	Channel	26665
			

Mode	LTE Band 25, CB: 10MHz, QPSK	Mode	LTE Band 25, CB: 10MHz, 16QAM
Channel	26090	Channel	26090
			
Channel	26365	Channel	26365
			
Channel	26640	Channel	26640
			

Mode	LTE Band 25, CB: 15MHz, QPSK	Mode	LTE Band 25, CB: 5MHz, 16QAM
Channel	26115	Channel	26115
			
Channel	26365	Channel	26365
			
Channel	26615	Channel	26615
			

Mode	LTE Band 25, CB: 20MHz, QPSK	Mode	LTE Band 25, CB: 20MHz, 16QAM
Channel	26140	Channel	26140
			
Channel	26365	Channel	26365
			
Channel	26590	Channel	26590
			

3.4 Band Edge

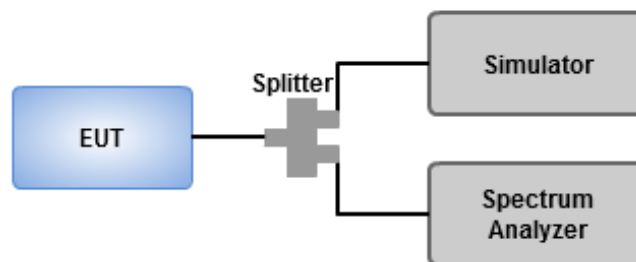
3.4.1 Limit of Band Edge

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 equal to -13dBm.

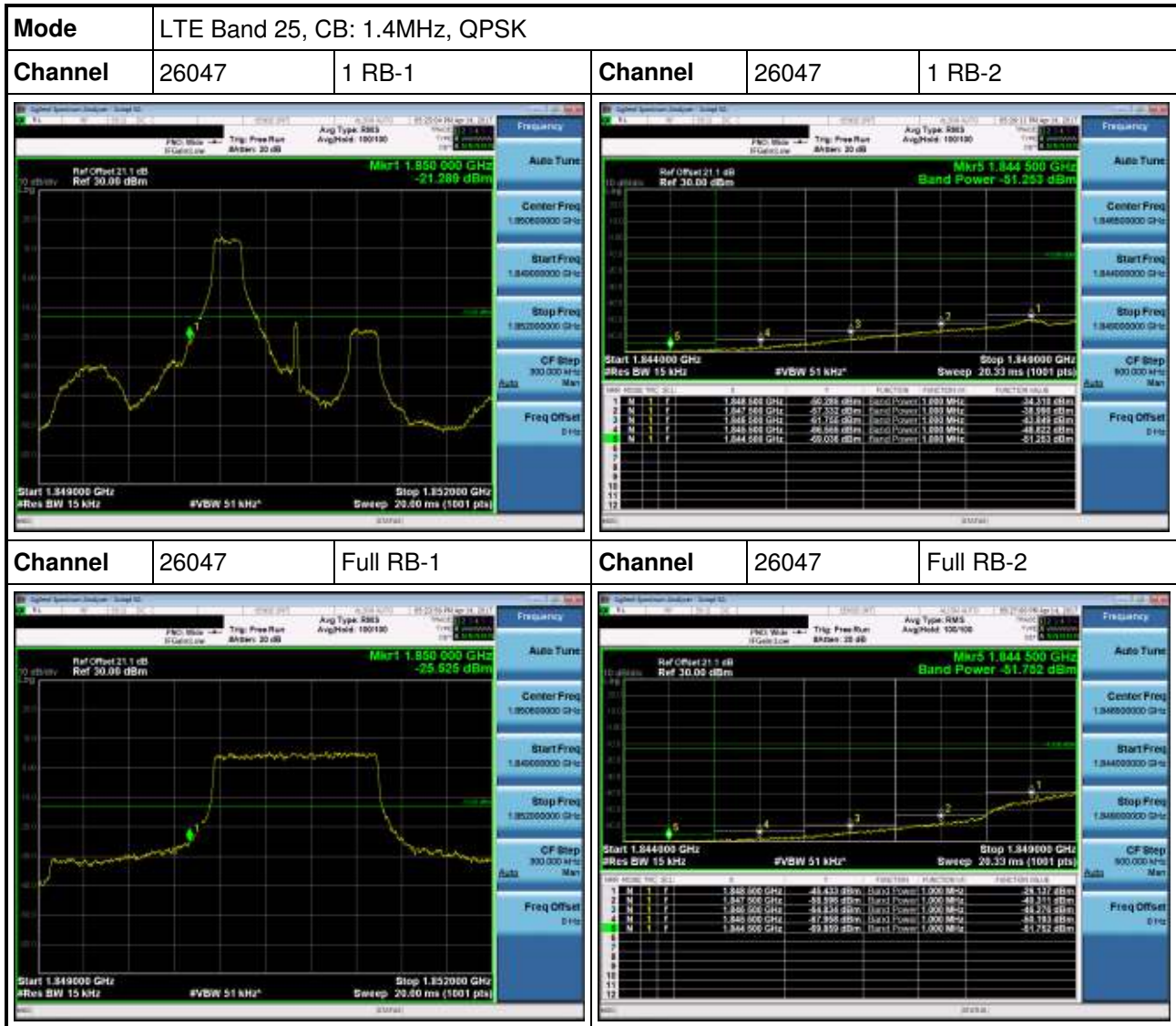
3.4.2 Test Procedures

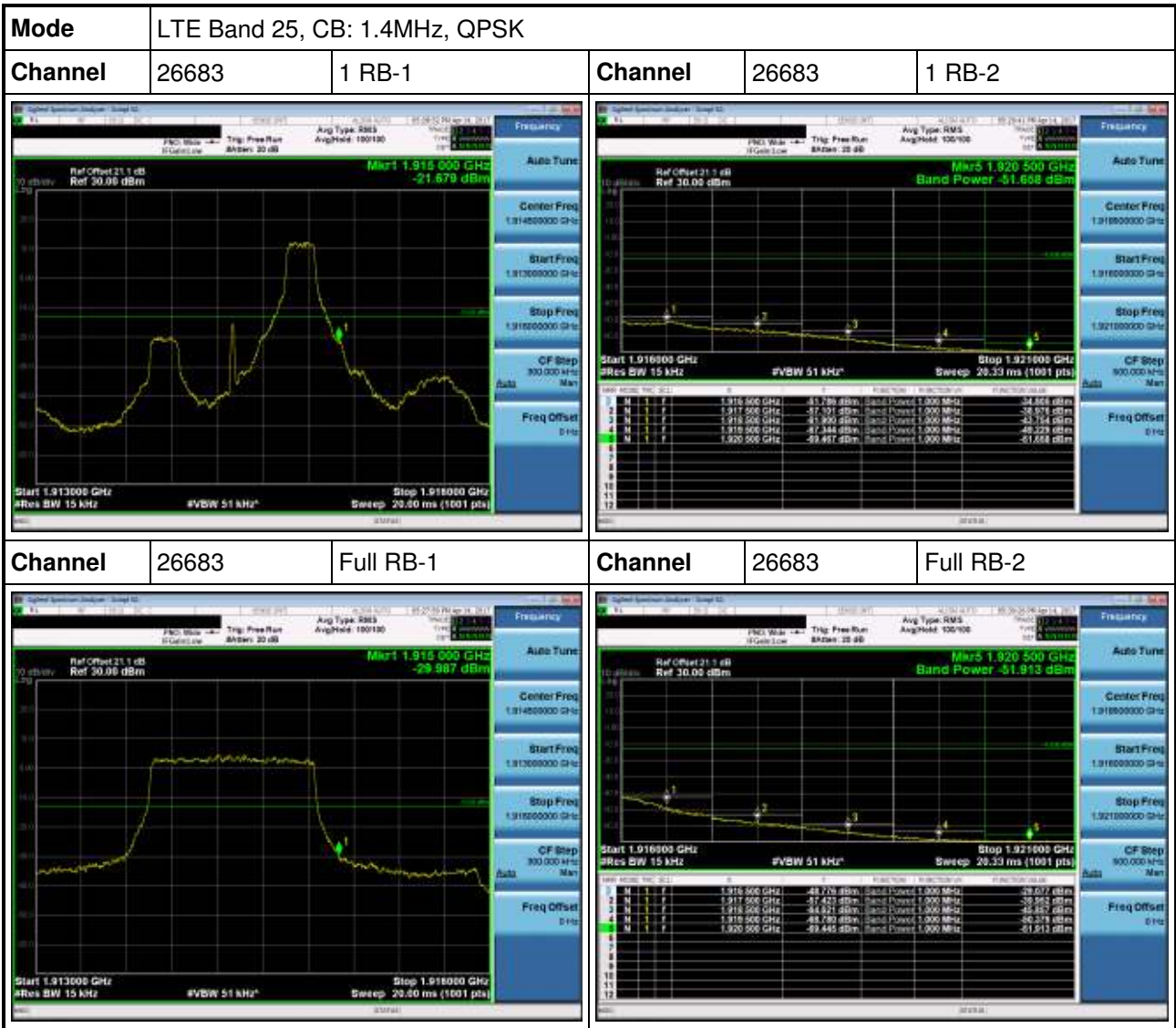
1. Lowest and highest operating channels are tested for this item.
2. Set RBW = 15 / 30 / 51 / 100 / 150 / 200 kHz, VBW = 51 / 100 / 160 / 300 / 470 / 620 kHz for LTE channel bandwidth 1.4 / 3 / 5 / 10 / 15 / 20 MHz, detector = RMS, sweep time = auto to measure trace.
3. Set RBW = 15 / 30 / 51 / 100 kHz, VBW = 51 / 100 / 160 / 300 kHz for LTE channel bandwidth 1.4 / 3 / 5 / 10 MHz, detector = RMS and use channel power measurement function of spectrum analyzer to integrate power over 1MHz.

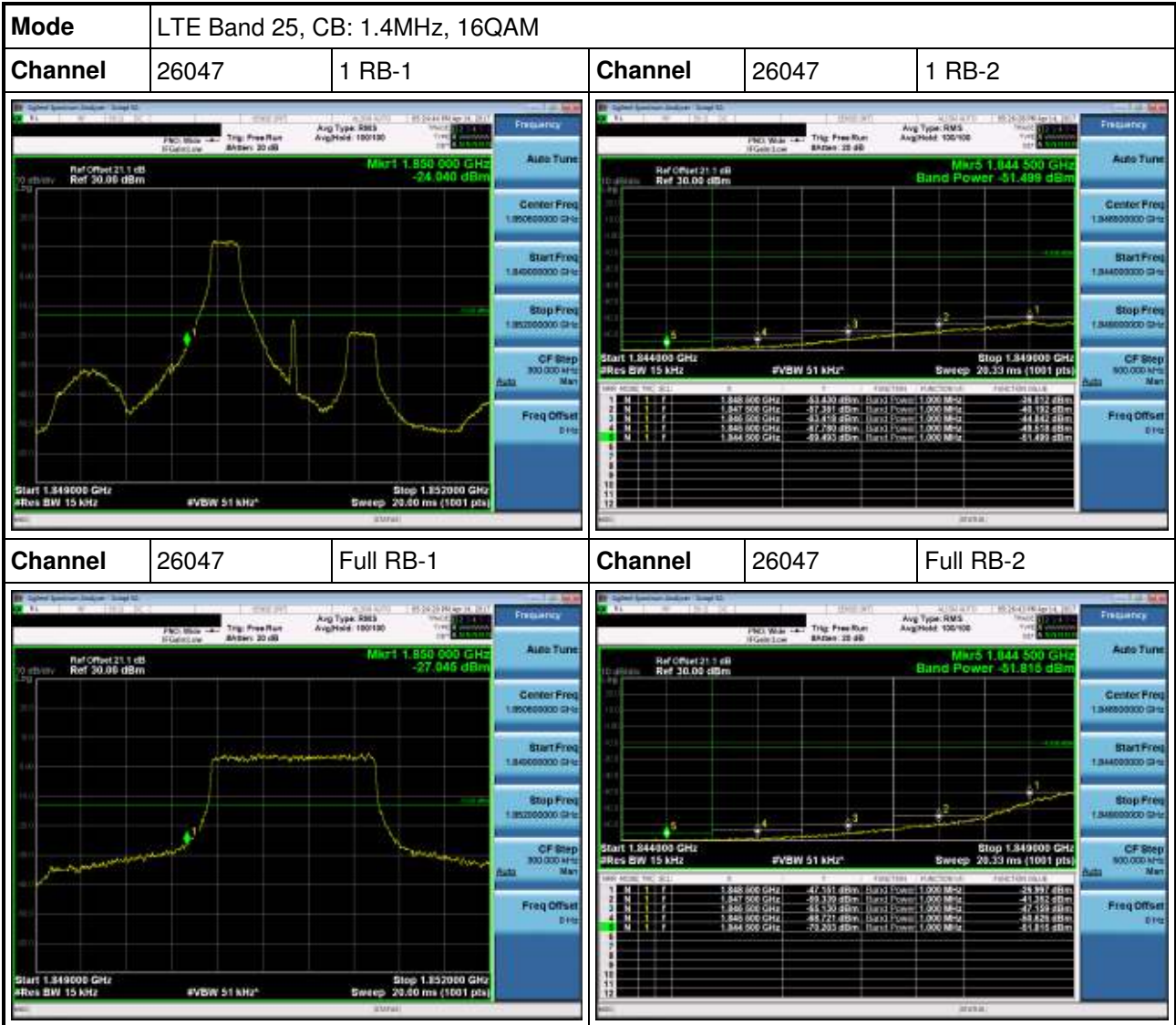
3.4.3 Test Setup

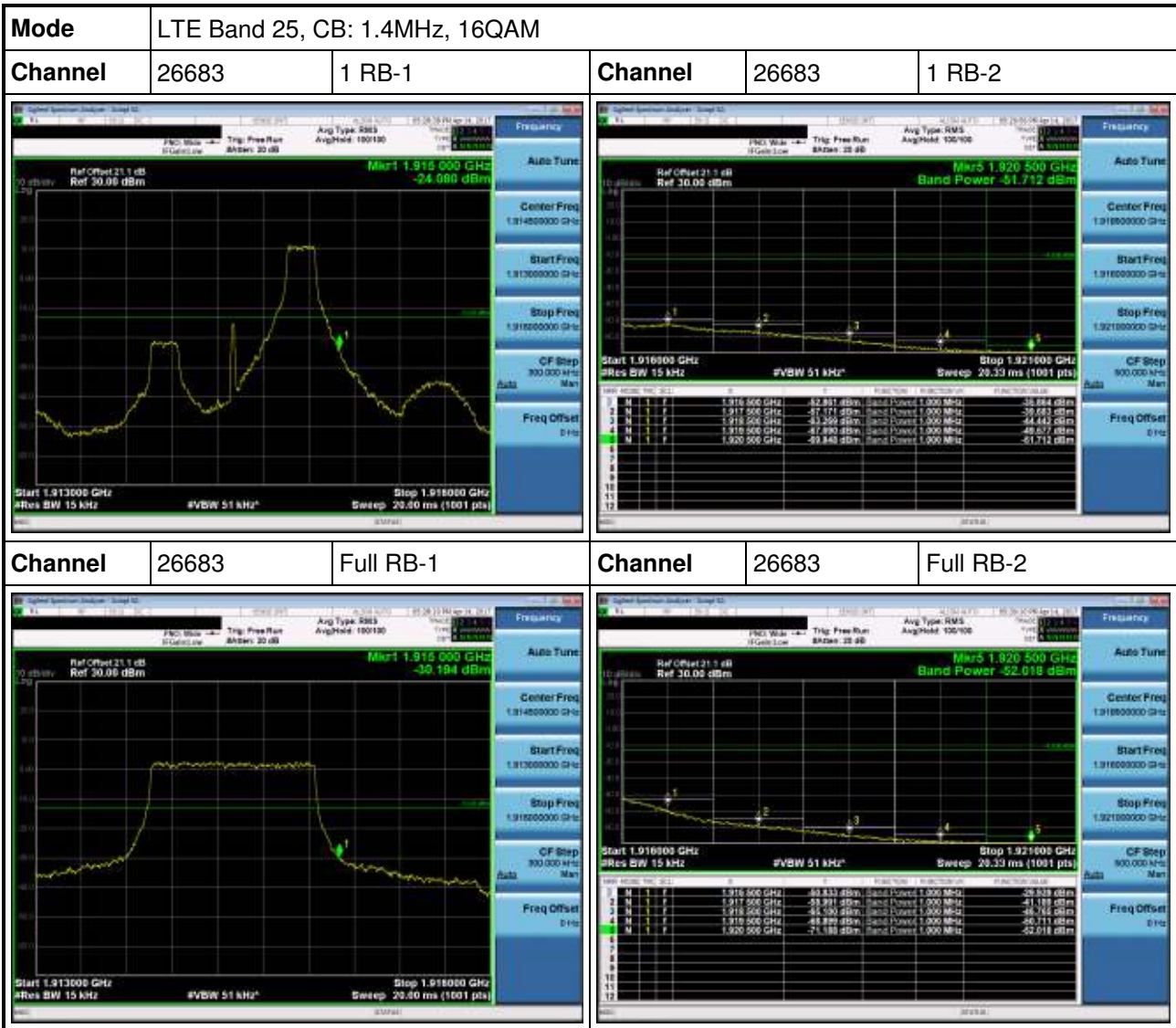


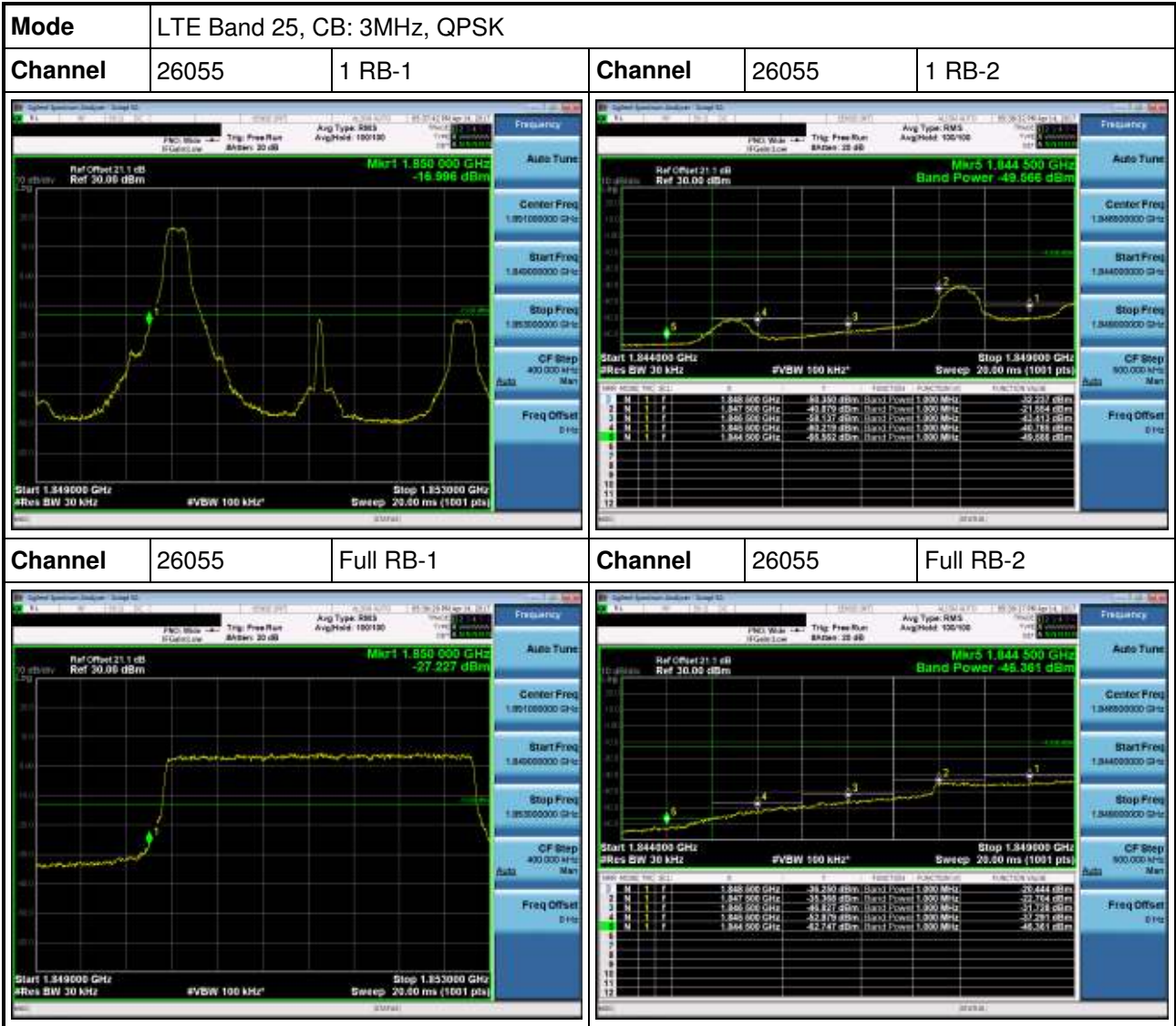
3.4.4 Test Result of Band Edge

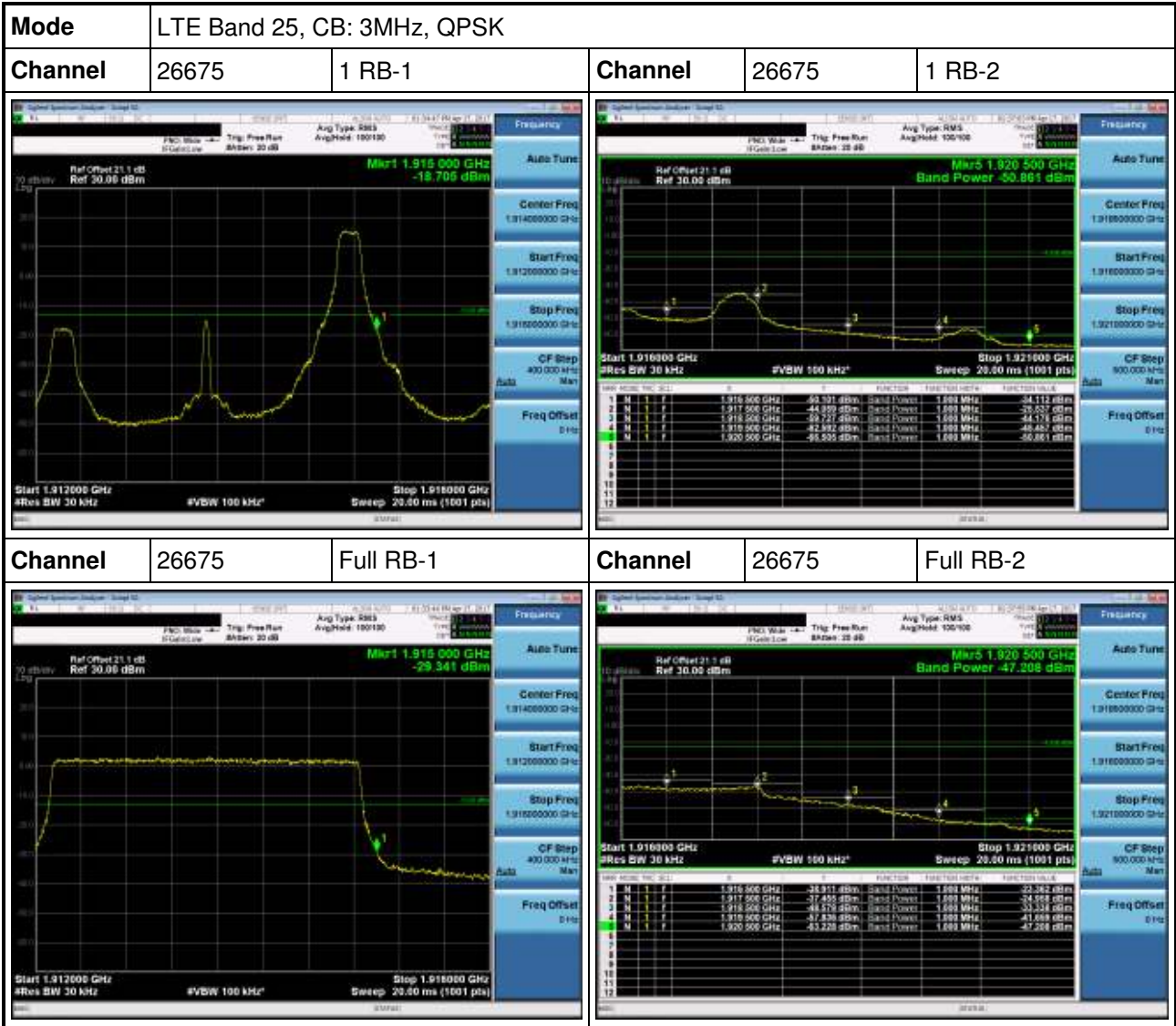


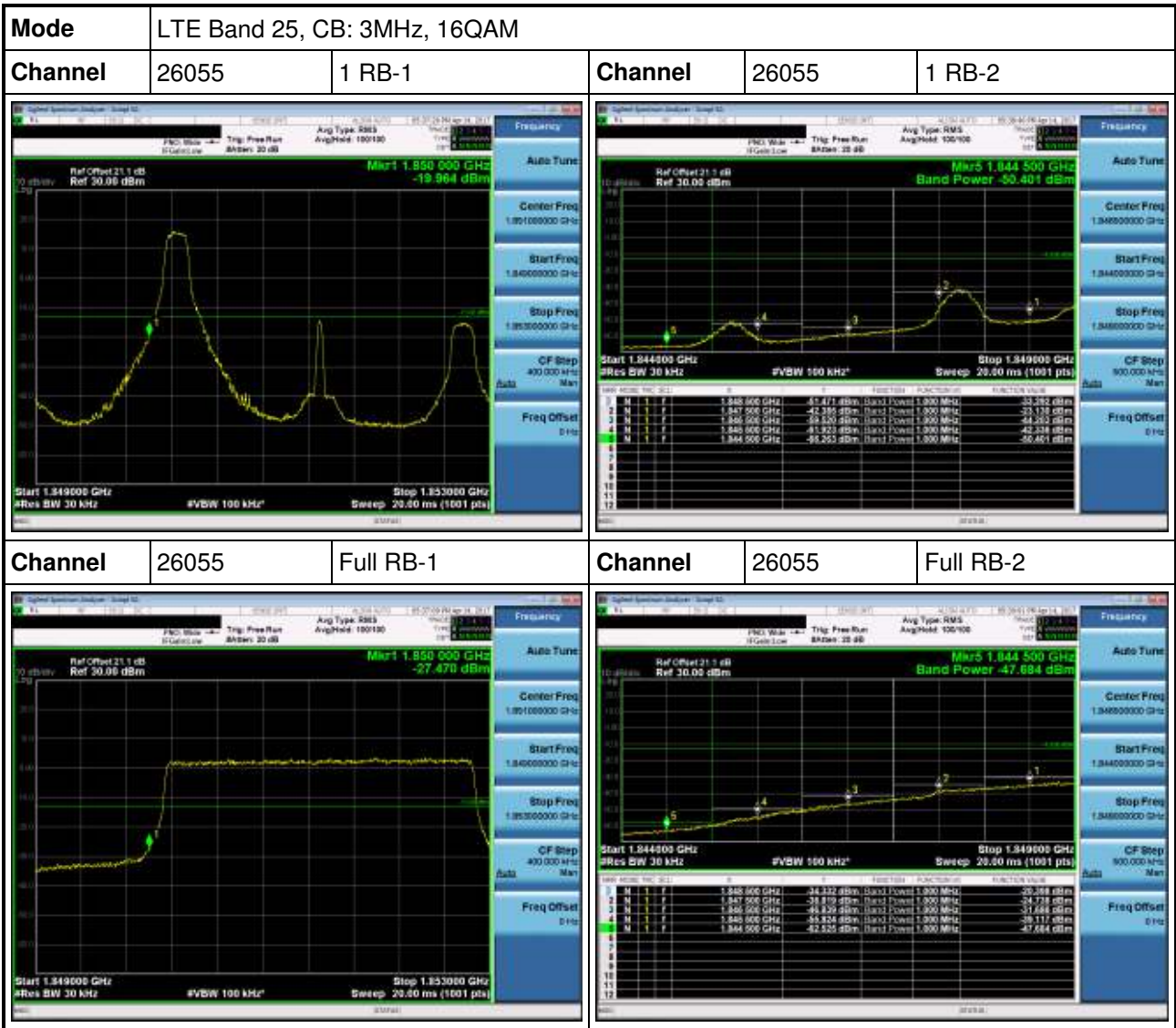


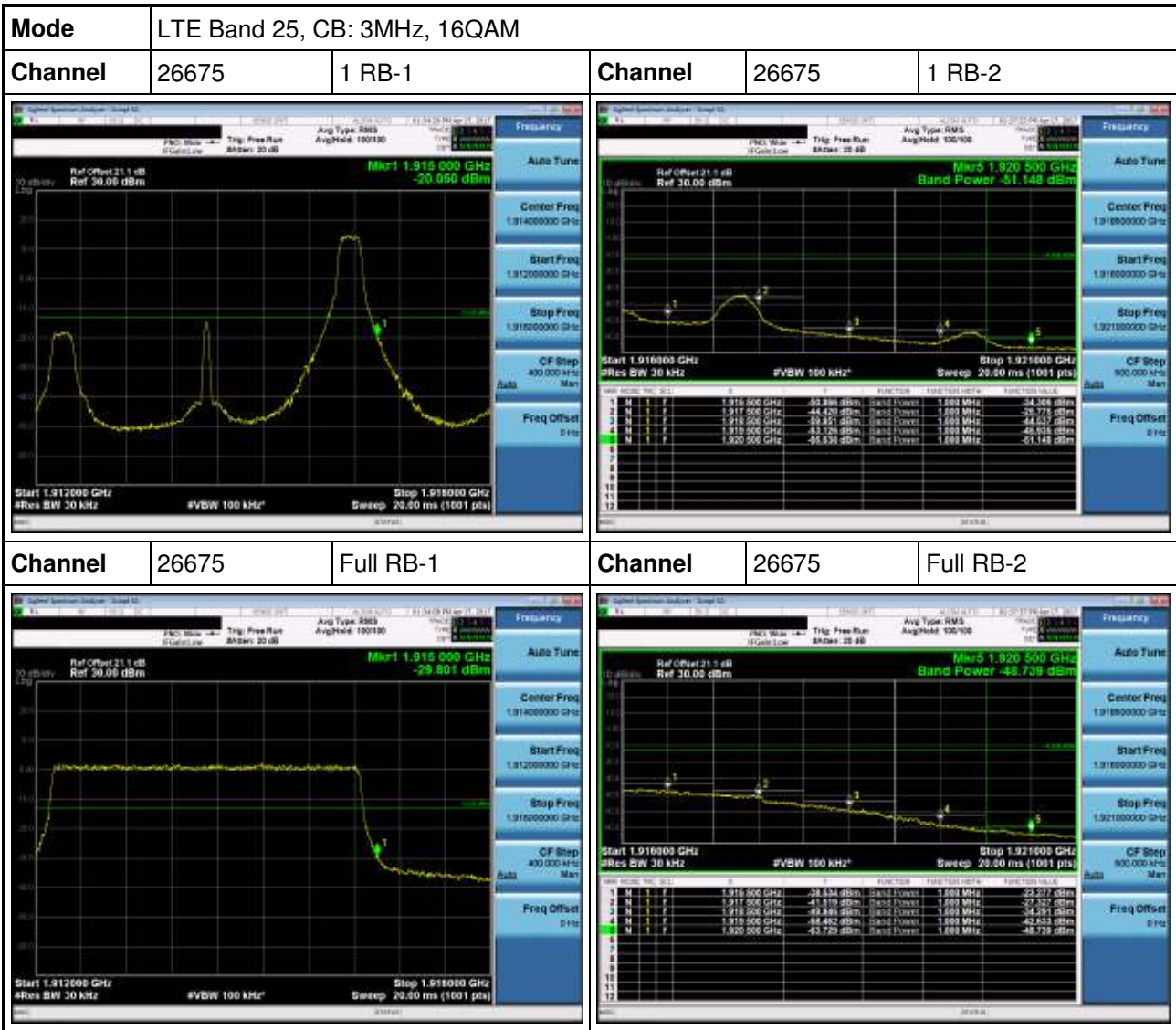


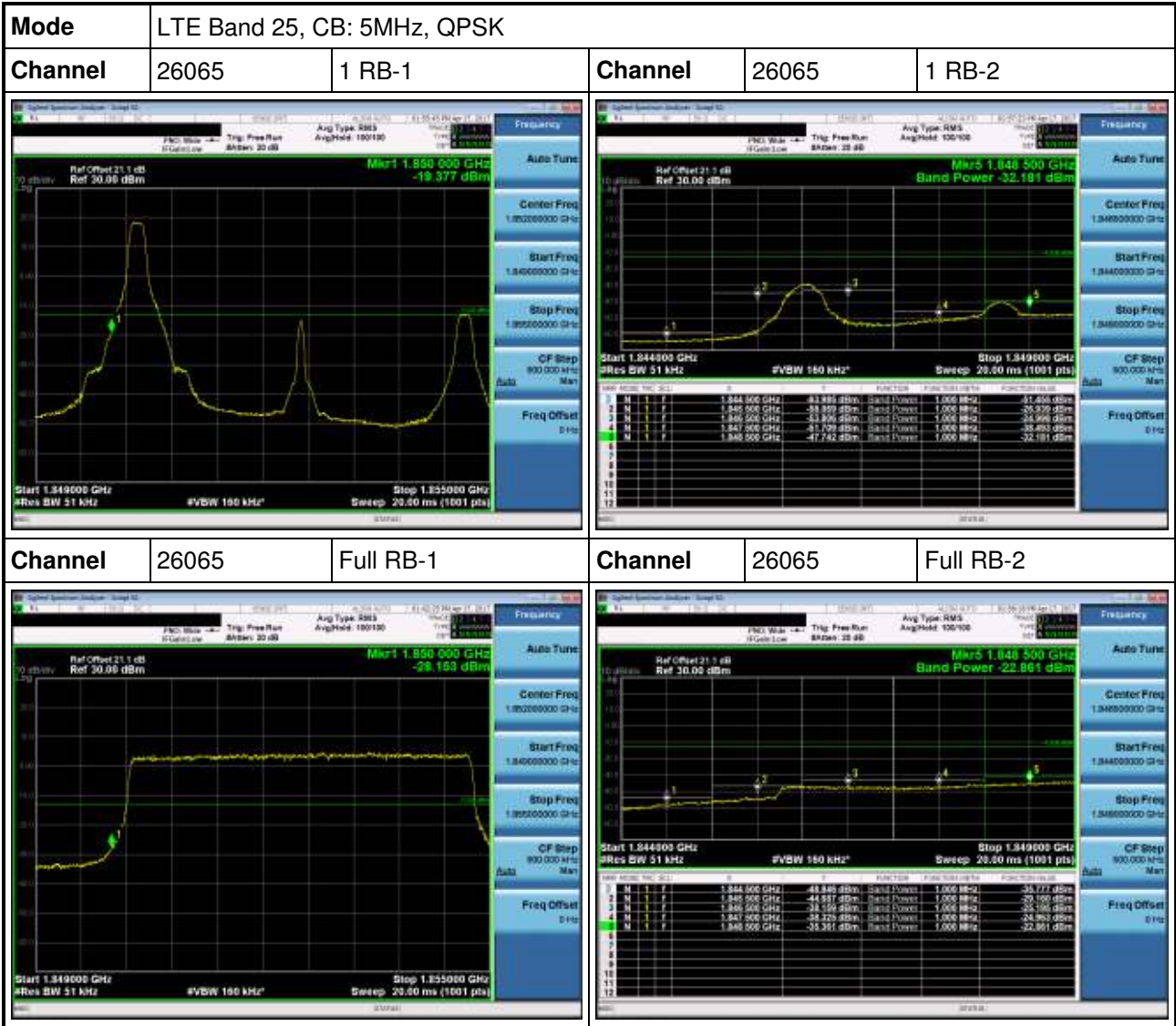


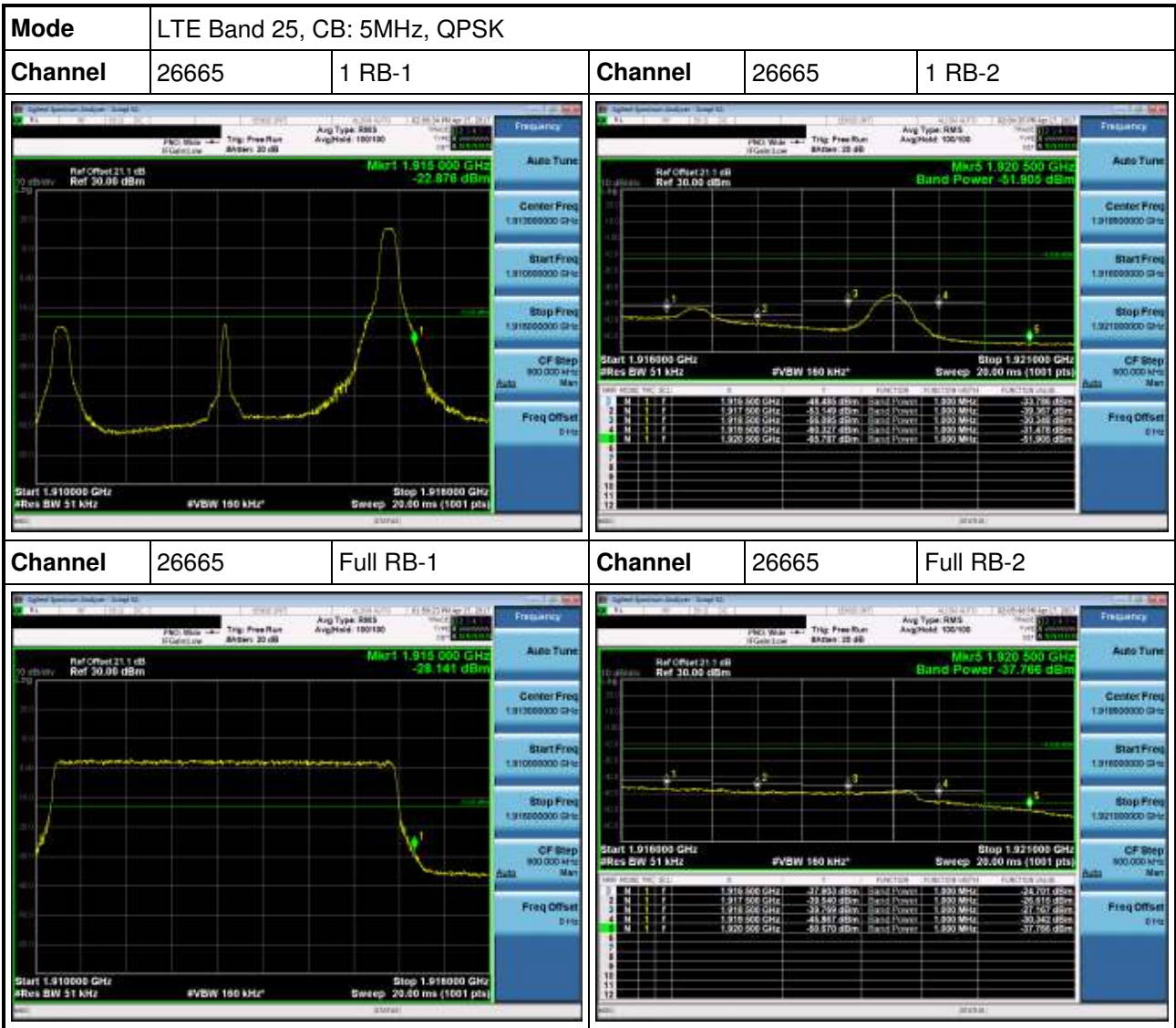


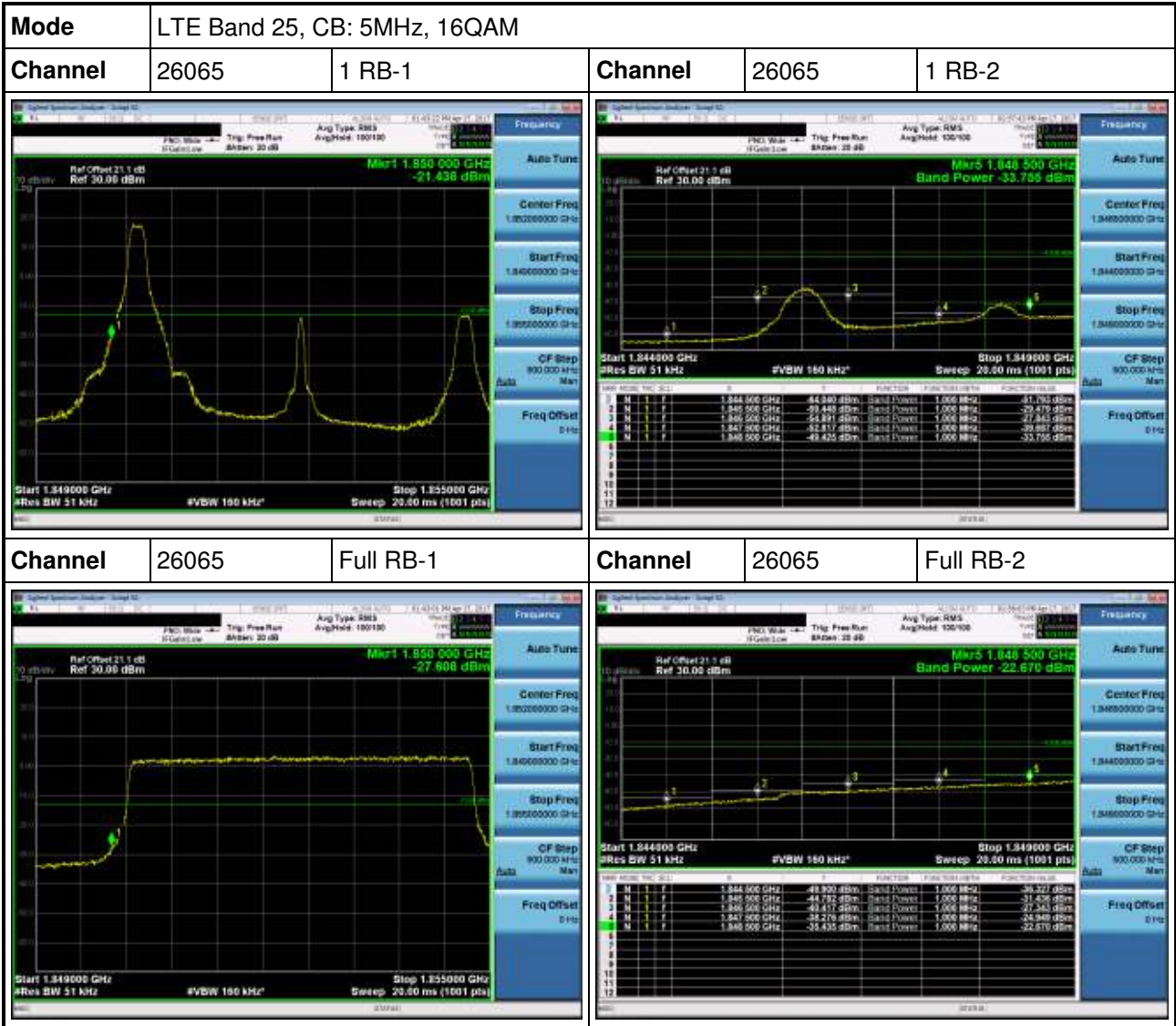


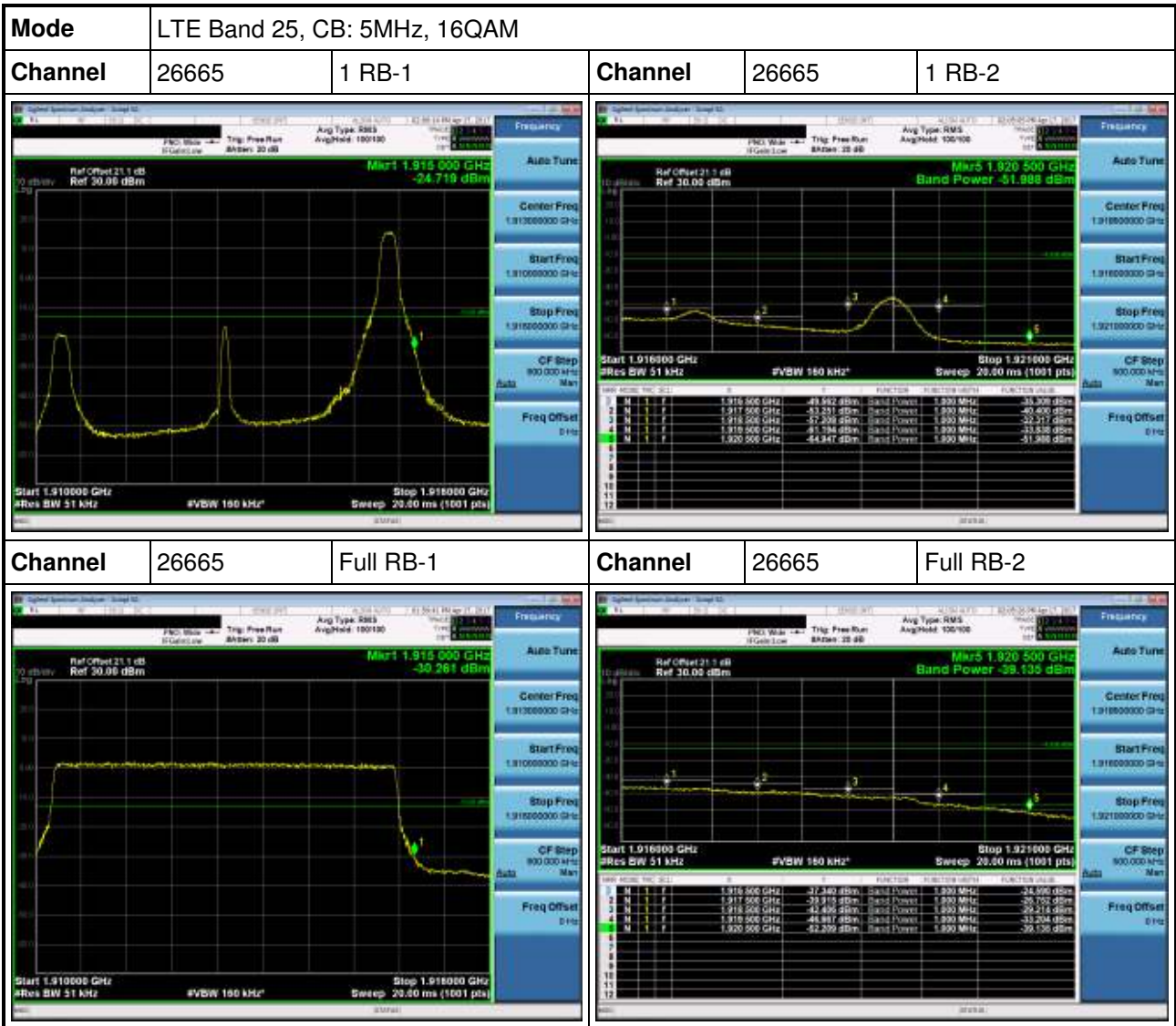


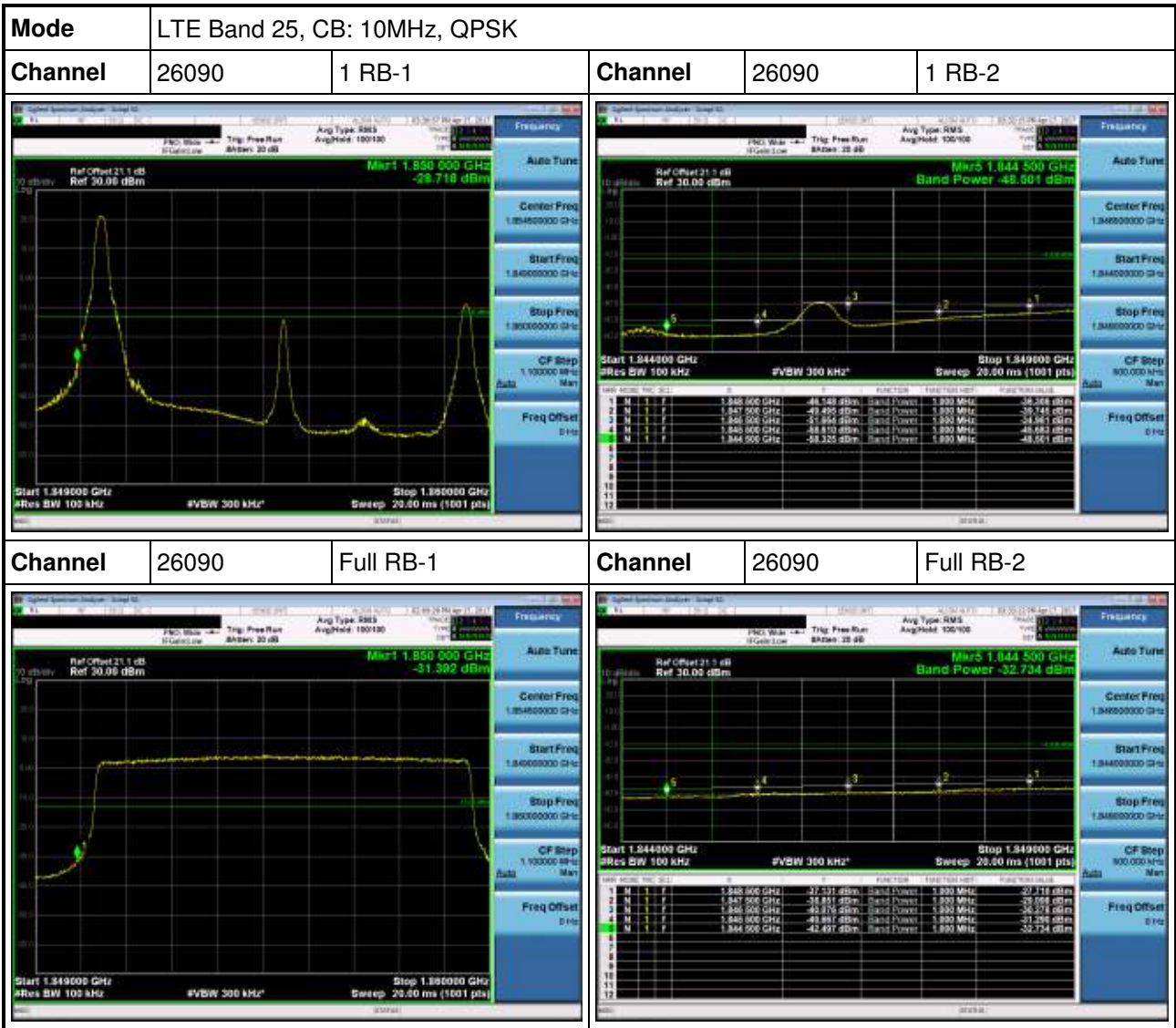


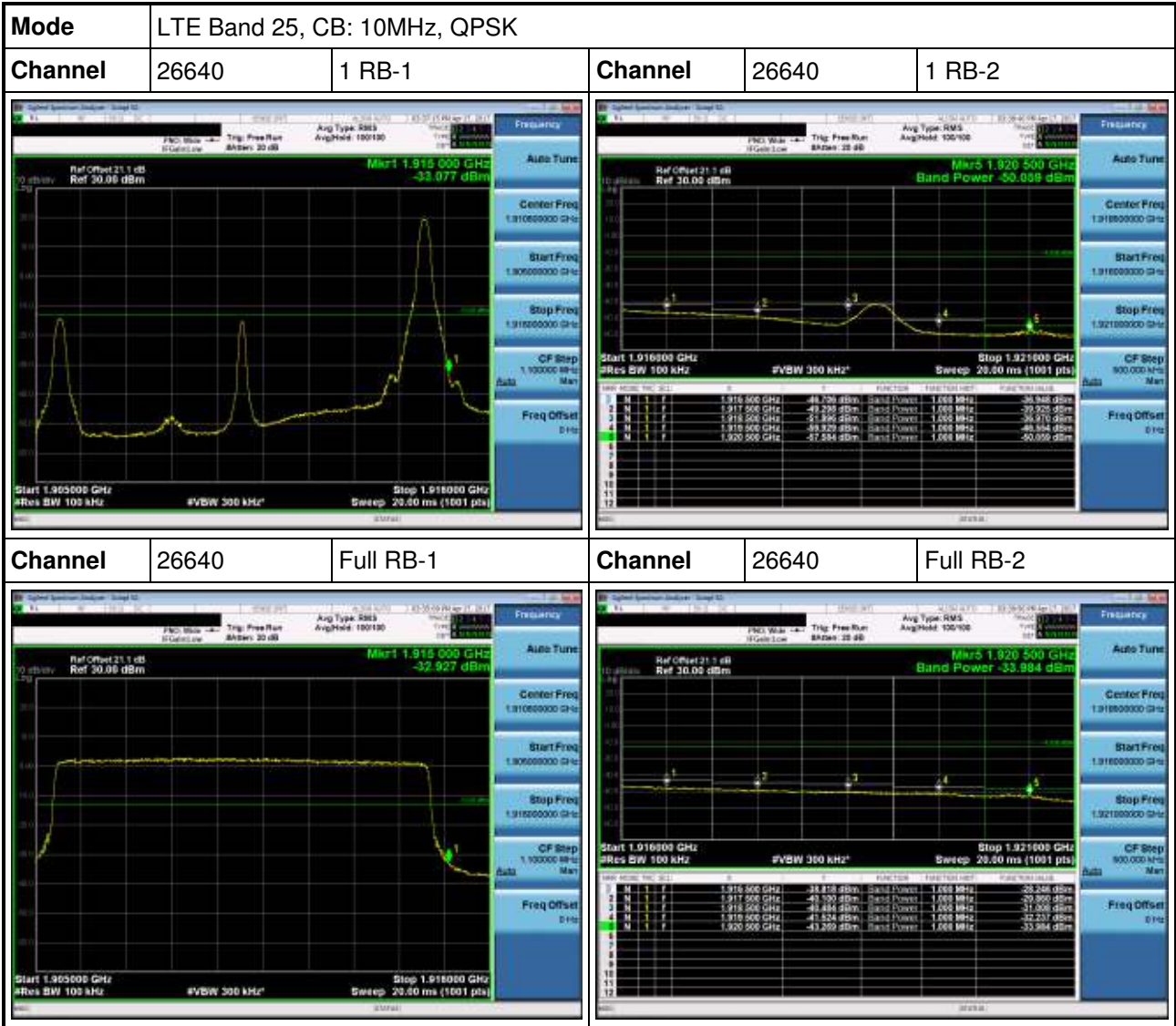




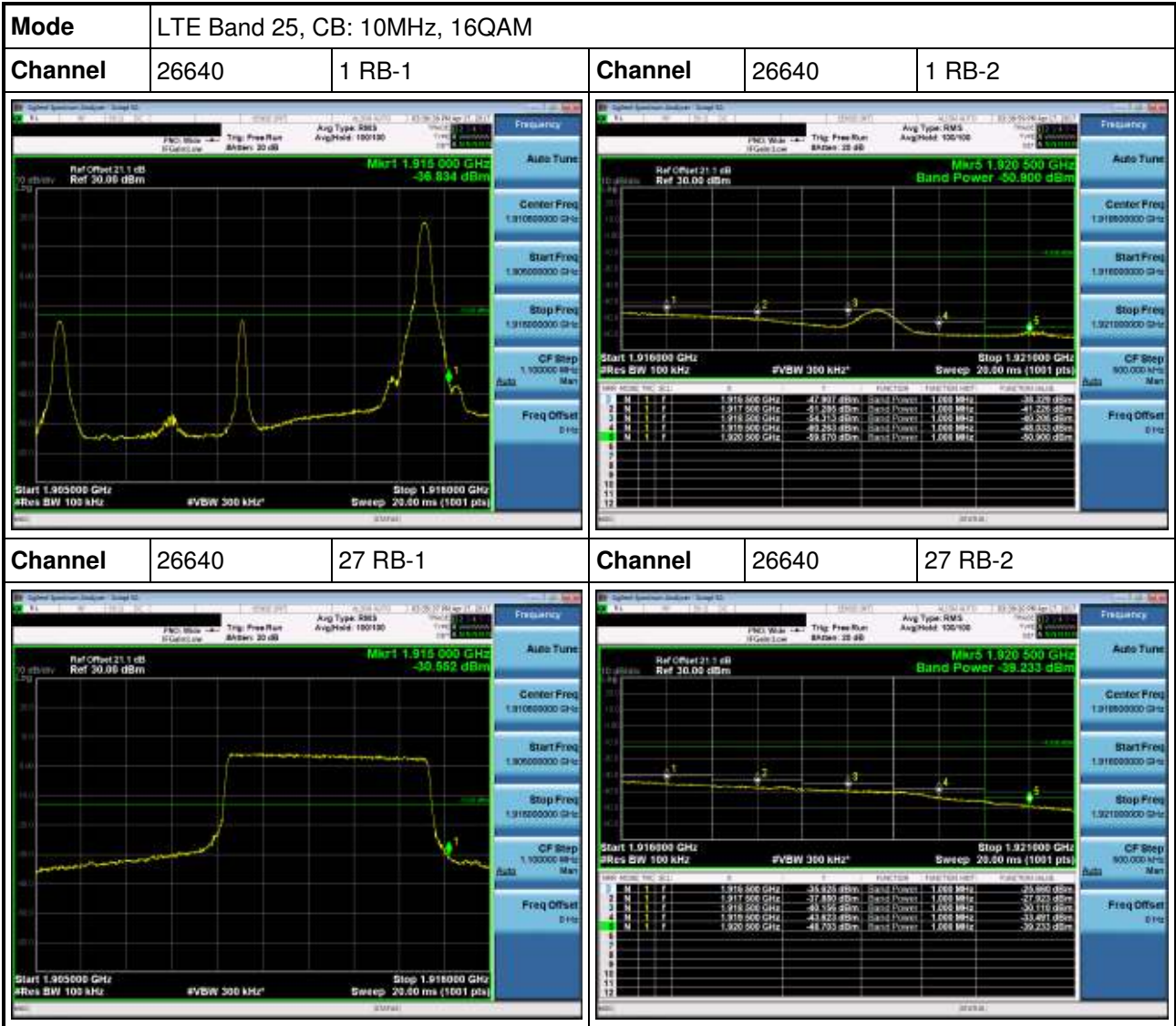


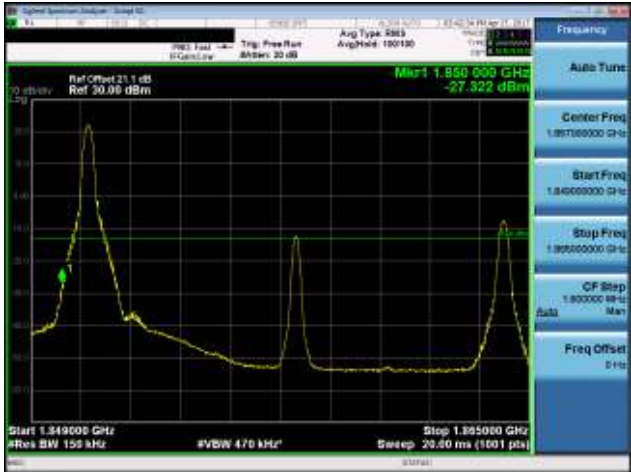




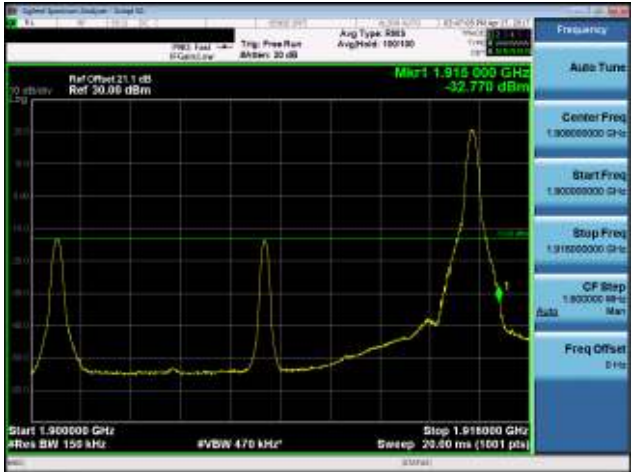





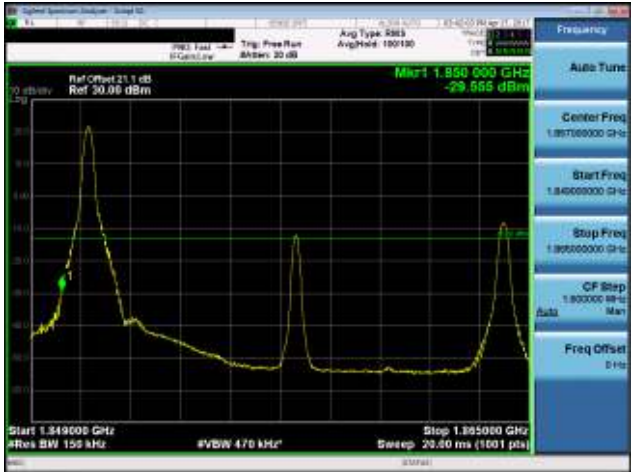





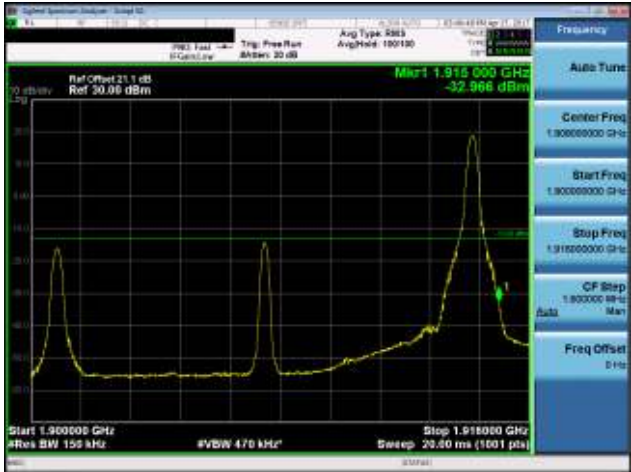





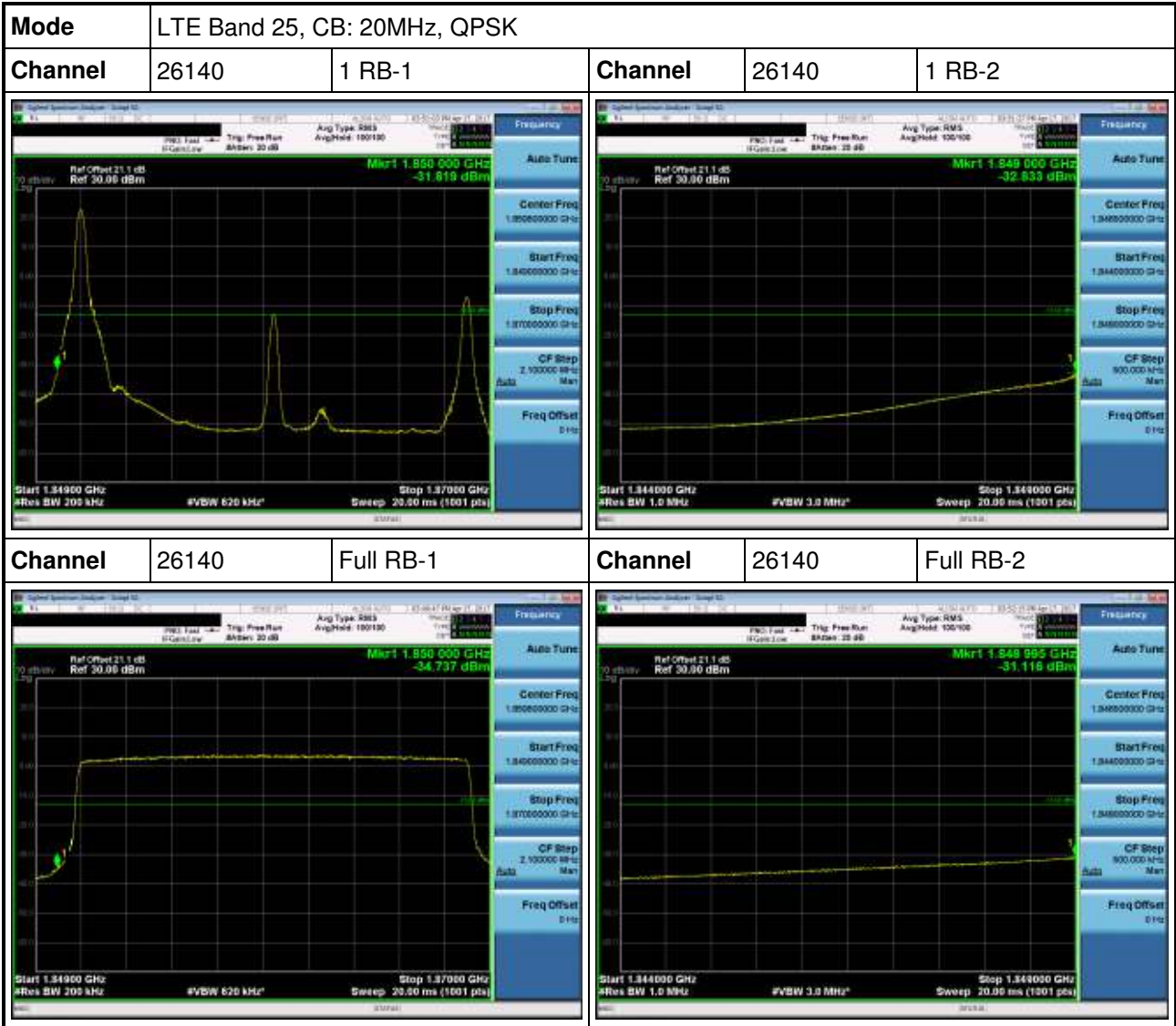


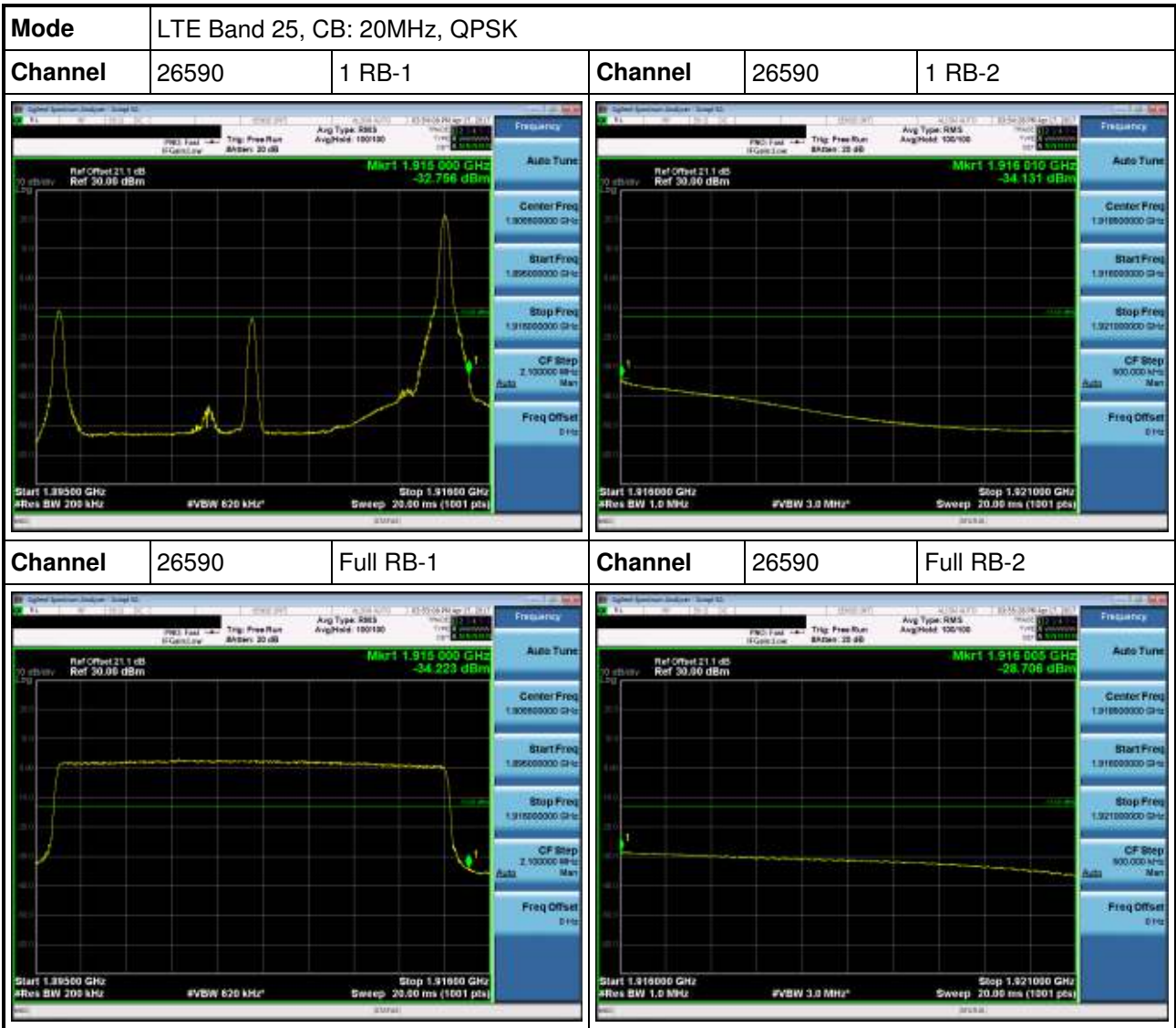
Mode	LTE Band 25, CB: 15MHz, QPSK				
Channel	26115	1 RB-1	Channel	26115	1 RB-2
					
Channel	26115	Full RB-1	Channel	26115	Full RB-2
					

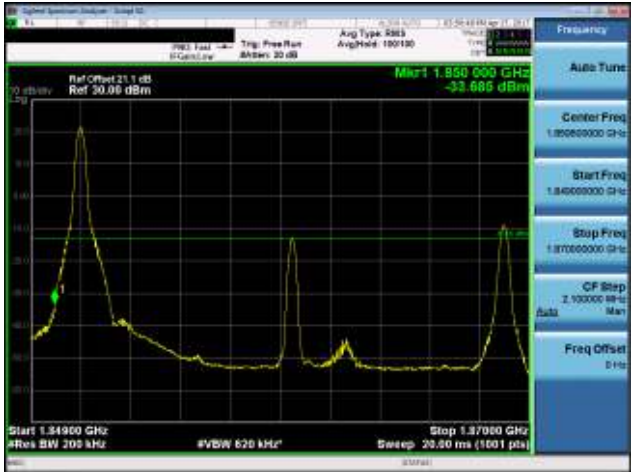



Mode	LTE Band 25, CB: 15MHz, QPSK				
Channel	26615	1 RB-1	Channel	26615	1 RB-2
					
Channel	26615	Full RB-1	Channel	26615	Full RB-2
					

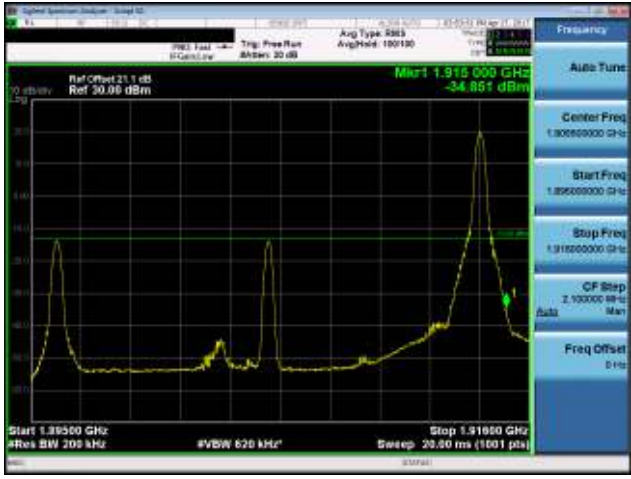
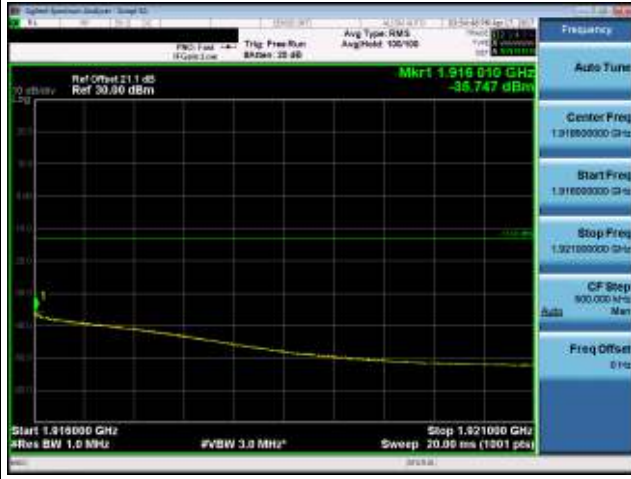


Mode	LTE Band 25, CB: 15MHz, 16QAM				
Channel	26115	1 RB-1	Channel	26115	1 RB-2
					
Channel	26115	27 RB-1	Channel	26115	27 RB-2
					

Mode	LTE Band 25, CB: 15MHz, 16QAM				
Channel	26615	1 RB-1	Channel	26615	1 RB-2
 <p>Ref Offset 21.1 dB Ref 30.00 dBm Mkr1 1.916 000 GHz -32.966 dBm</p> <p>Center Freq: 1.90000000 GHz Start Freq: 1.90000000 GHz Stop Freq: 1.91000000 GHz CF Step: 1.900000 MHz Freq Offset: 0 Hz</p> <p>Start 1.900000 GHz #Res BW 150 kHz #VBW 470 kHz Sweep 20.00 ms (1001 pts)</p>			 <p>Ref Offset 21.1 dB Ref 30.00 dBm Mkr1 1.916 000 GHz -27.219 dBm</p> <p>Center Freq: 1.91000000 GHz Start Freq: 1.91000000 GHz Stop Freq: 1.92100000 GHz CF Step: 900.000 MHz Freq Offset: 0 Hz</p> <p>Start 1.910000 GHz #Res BW 1.0 MHz #VBW 3.0 MHz Sweep 20.00 ms (1001 pts)</p>		
Channel	26615	27 RB-1	Channel	26615	27 RB-2
 <p>Ref Offset 21.1 dB Ref 30.00 dBm Mkr1 1.916 000 GHz -30.828 dBm</p> <p>Center Freq: 1.90000000 GHz Start Freq: 1.90000000 GHz Stop Freq: 1.91000000 GHz CF Step: 1.900000 MHz Freq Offset: 0 Hz</p> <p>Start 1.900000 GHz #Res BW 150 kHz #VBW 470 kHz Sweep 20.00 ms (1001 pts)</p>			 <p>Ref Offset 21.1 dB Ref 30.00 dBm Mkr1 1.916 000 GHz -24.744 dBm</p> <p>Center Freq: 1.91000000 GHz Start Freq: 1.91000000 GHz Stop Freq: 1.92100000 GHz CF Step: 900.000 MHz Freq Offset: 0 Hz</p> <p>Start 1.910000 GHz #Res BW 1.0 MHz #VBW 3.0 MHz Sweep 20.00 ms (1001 pts)</p>		





Mode	LTE Band 25, CB: 20MHz, 16QAM				
Channel	26140	1 RB-1	Channel	26140	1 RB-2
					
Channel	26140	27 RB-1	Channel	26140	27 RB-2
					

Mode	LTE Band 25, CB: 20MHz, 16QAM				
Channel	26590	1 RB-1	Channel	26590	1 RB-2
 <p>Ref Offset 21.1 dB Ref 30.00 dBm Mkr1 1.918 000 GHz -34.851 dBm Center Freq: 1.90800000 GHz Start Freq: 1.89500000 GHz Stop Freq: 1.91800000 GHz CF Step: 2.100000 MHz Start 1.89500 GHz #Res BW 200 kHz #VBW 620 kHz Stop 1.91850 GHz Sweep 20.00 ms (1001 pts)</p>			 <p>Ref Offset 21.1 dB Ref 30.00 dBm Mkr1 1.918 016 GHz -36.747 dBm Center Freq: 1.91800000 GHz Start Freq: 1.91800000 GHz Stop Freq: 1.92100000 GHz CF Step: 900.000 MHz Start 1.91800 GHz #Res BW 1.0 MHz #VBW 3.0 MHz Stop 1.92100 GHz Sweep 20.00 ms (1001 pts)</p>		
Channel	26590	27 RB-1	Channel	26590	27 RB-2
 <p>Ref Offset 21.1 dB Ref 30.00 dBm Mkr1 1.915 000 GHz -29.408 dBm Center Freq: 1.90800000 GHz Start Freq: 1.89500000 GHz Stop Freq: 1.91800000 GHz CF Step: 2.100000 MHz Start 1.89500 GHz #Res BW 200 kHz #VBW 620 kHz Stop 1.91850 GHz Sweep 20.00 ms (1001 pts)</p>			 <p>Ref Offset 21.1 dB Ref 30.00 dBm Mkr1 1.916 035 GHz -26.511 dBm Center Freq: 1.91800000 GHz Start Freq: 1.91800000 GHz Stop Freq: 1.92100000 GHz CF Step: 900.000 MHz Start 1.91800 GHz #Res BW 1.0 MHz #VBW 3.0 MHz Stop 1.92100 GHz Sweep 20.00 ms (1001 pts)</p>		

3.5 Occupied Bandwidth

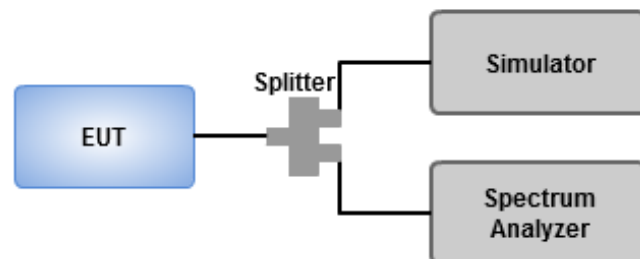
3.5.1 Test Procedures

1. Set as below setting for LTE mode

Bandwidth (MHz)	RBW (kHz)	VBW (KHz)	Detector	Sweep time
1.4	15	51	Peak	Auto
3	30	100	Peak	Auto
5	51	160	Peak	Auto
10	100	300	Peak	Auto
15	150	470	Peak	Auto
20	200	620	Peak	Auto

2. Using occupied bandwidth measurement function of spectrum analyzer to measure occupied bandwidth.

3.5.2 Test Setup



3.5.3 Test Result of Occupied Bandwidth

Mode	CB (MHz)	Modulation	Channel	Frequency (MHz)	26dB BW (MHz)	99% OBW (MHz)
LTE Band 25	1.4	QPSK	26047	1850.7	1.2890	1.0826
LTE Band 25	1.4	QPSK	26365	1882.5	1.2670	1.0792
LTE Band 25	1.4	QPSK	26683	1914.3	1.2560	1.0755
LTE Band 25	1.4	16QAM	26047	1850.7	1.2680	1.0842
LTE Band 25	1.4	16QAM	26365	1882.5	1.2780	1.0798
LTE Band 25	1.4	16QAM	26683	1914.3	1.2620	1.0807



Mode	CB (MHz)	Modulation	Channel	Frequency (MHz)	26dB BW (MHz)	99% OBW (MHz)
LTE Band 25	3	QPSK	26055	1851.5	2.9330	2.6866
LTE Band 25	3	QPSK	26365	1882.5	2.9340	2.6783
LTE Band 25	3	QPSK	26675	1913.5	2.9330	2.6842
LTE Band 25	3	16QAM	26055	1851.5	2.9730	2.6905
LTE Band 25	3	16QAM	26365	1882.5	2.9210	2.6841
LTE Band 25	3	16QAM	26675	1913.5	2.9420	2.6855



Mode	CB (MHz)	Modulation	Channel	Frequency (MHz)	26dB BW (MHz)	99% OBW (MHz)
LTE Band 25	5	QPSK	26065	1852.5	4.9110	4.4795
LTE Band 25	5	QPSK	26365	1882.5	4.9470	4.4821
LTE Band 25	5	QPSK	26665	1912.5	4.8940	4.4774
LTE Band 25	5	16QAM	26065	1852.5	4.8700	4.4739
LTE Band 25	5	16QAM	26365	1882.5	4.9320	4.4846
LTE Band 25	5	16QAM	26665	1912.5	4.9130	4.4826



Mode	CB (MHz)	Modulation	Channel	Frequency (MHz)	26dB BW (MHz)	99% OBW (MHz)
LTE Band 25	10	QPSK	26090	1855.0	9.7150	8.9106
LTE Band 25	10	QPSK	26365	1882.5	9.6490	8.9166
LTE Band 25	10	QPSK	26640	1910.0	9.6750	8.9214
LTE Band 25	10	16QAM	26090	1855.0	5.9530	4.9047
LTE Band 25	10	16QAM	26365	1882.5	5.9720	4.9086
LTE Band 25	10	16QAM	26640	1910.0	5.8520	4.9268



Mode	CB (MHz)	Modulation	Channel	Frequency (MHz)	26dB BW (MHz)	99% OBW (MHz)
LTE Band 25	15	QPSK	26115	1857.5	14.3100	13.3730
LTE Band 25	15	QPSK	26365	1882.5	14.5200	13.4120
LTE Band 25	15	QPSK	26615	1907.5	14.3900	13.3920
LTE Band 25	15	16QAM	26115	1857.5	7.1120	5.0389
LTE Band 25	15	16QAM	26365	1882.5	6.9010	5.0036
LTE Band 25	15	16QAM	26615	1907.5	6.6600	4.9916



Mode	CB (MHz)	Modulation	Channel	Frequency (MHz)	26dB BW (MHz)	99% OBW (MHz)
LTE Band 25	20	QPSK	26140	1860.0	19.0500	17.8220
LTE Band 25	20	QPSK	26365	1882.5	19.0900	17.8720
LTE Band 25	20	QPSK	26590	1905.0	19.0800	17.8290
LTE Band 25	20	16QAM	26140	1860.0	7.6130	5.1653
LTE Band 25	20	16QAM	26365	1882.5	7.1300	5.1371
LTE Band 25	20	16QAM	26590	1905.0	7.0060	5.1264



3.6 Peak to Average Ratio

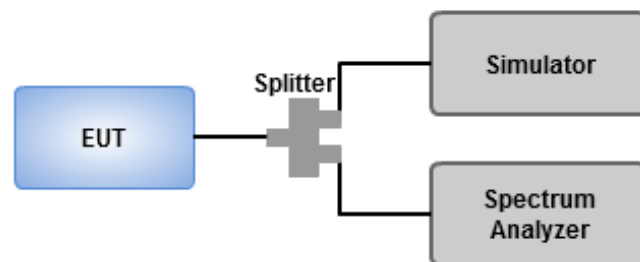
3.6.1 Limit of Peak to Average Ratio

Peak-to-average ratio (PAR) of the transmission may not exceed 13 dB.

3.6.2 Test Procedures

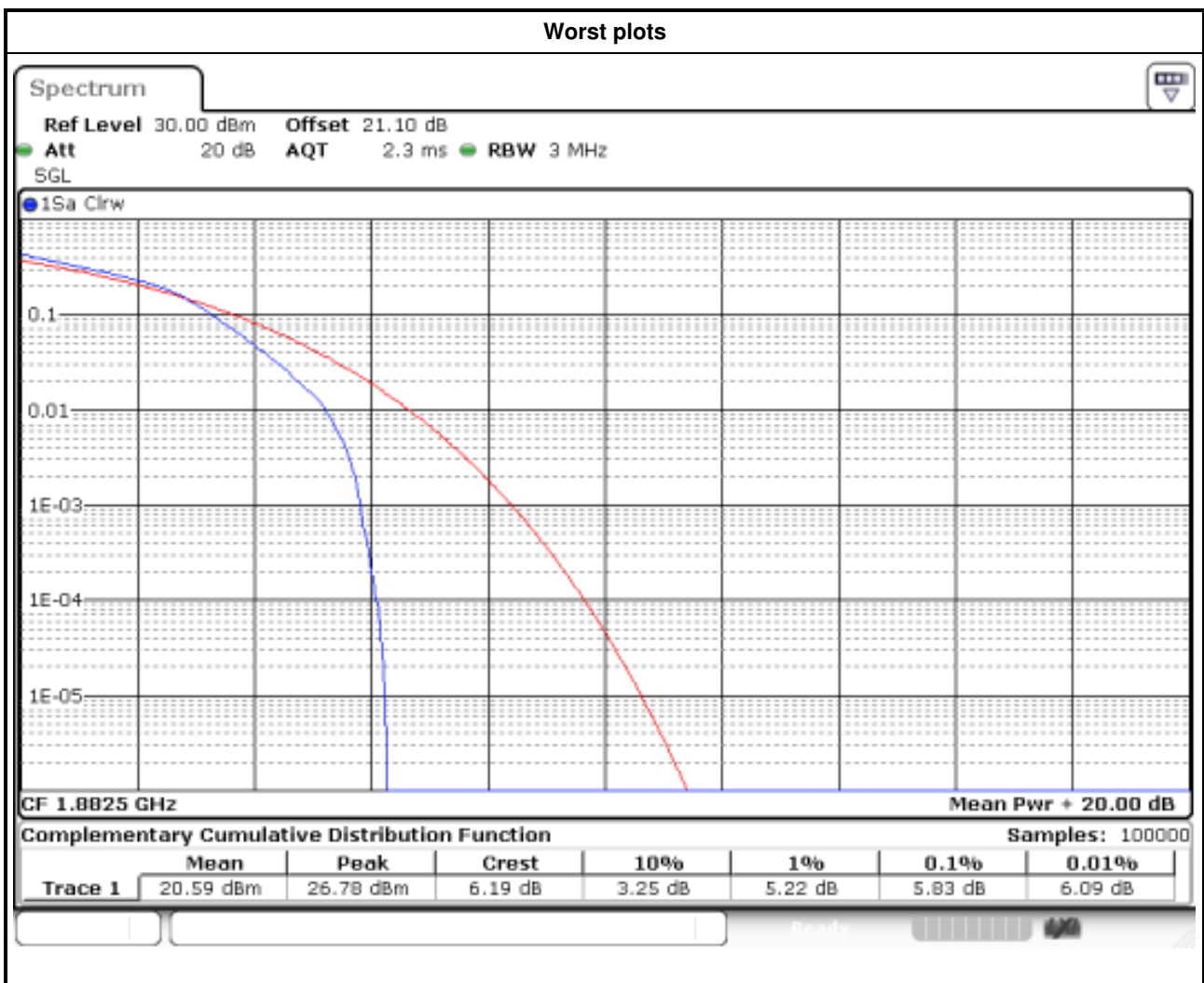
1. Enable CCDF function of spectrum analyzer and set RBW = 10MHz.
2. Set the number of counts to a value that stabilizes the measured CCDF curve.
3. Record the maximum PAPR level associated with a probability of 0.1%.

3.6.3 Test Setup

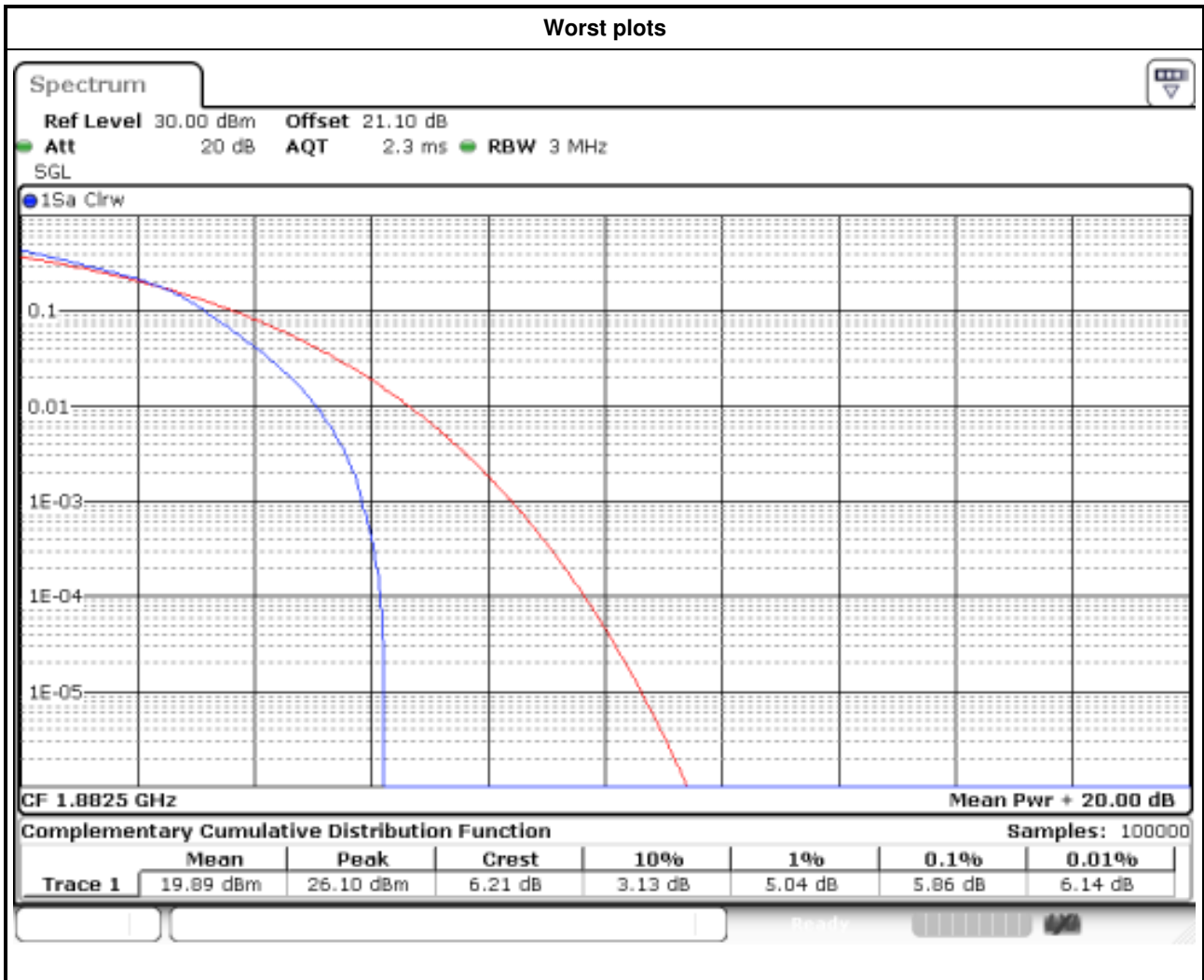


3.6.4 Test Result of Peak to Average ratio

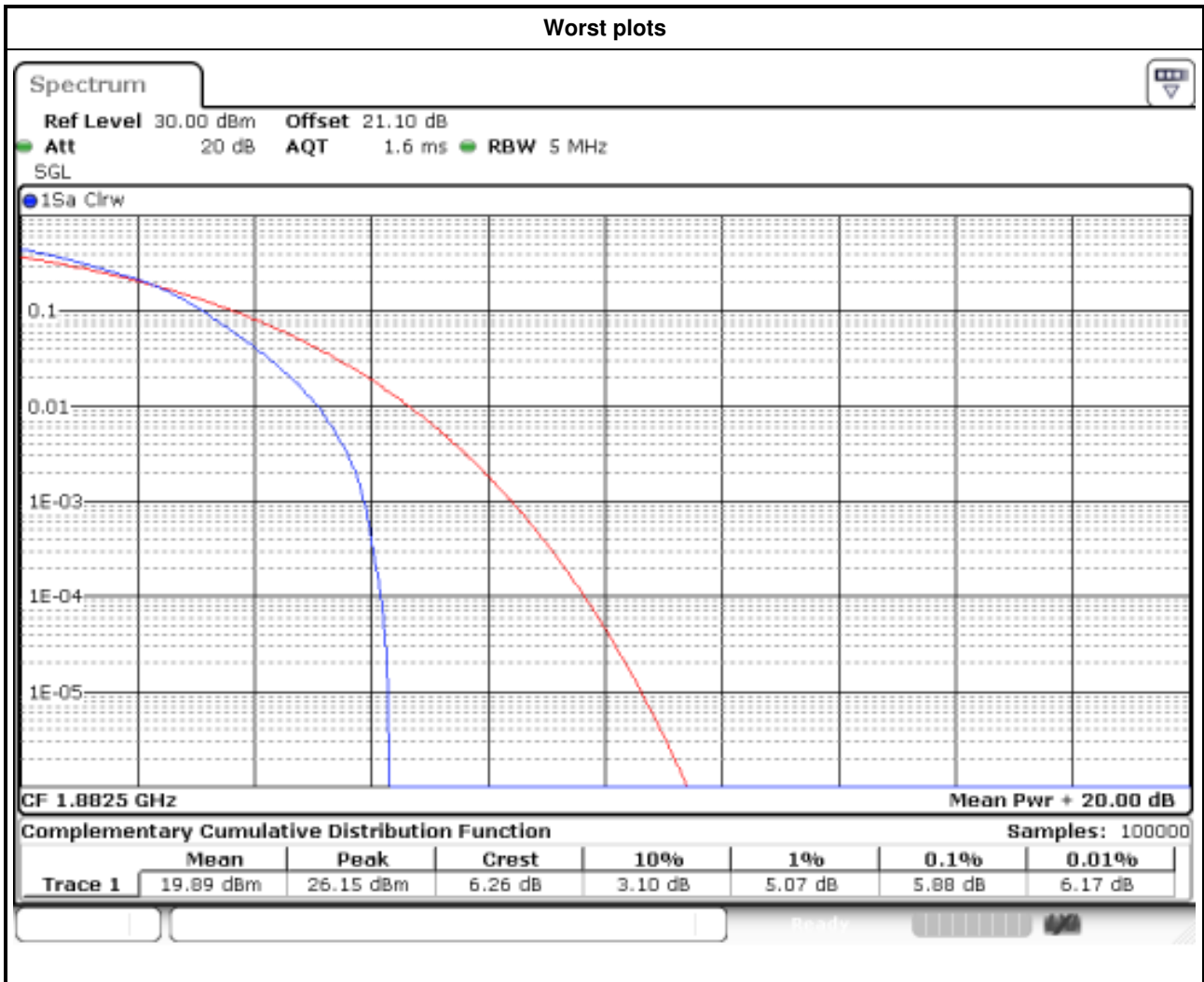
Mode	CB (MHz)	Modulation	Channel	Frequency (MHz)	Peak to Average ratio (dB)
LTE Band 25	1.4	QPSK	26047	1850.7	4.32
LTE Band 25	1.4	QPSK	26365	1882.5	4.90
LTE Band 25	1.4	QPSK	26683	1914.3	4.52
LTE Band 25	1.4	16QAM	26047	1850.7	5.39
LTE Band 25	1.4	16QAM	26365	1882.5	5.83
LTE Band 25	1.4	16QAM	26683	1914.3	5.51



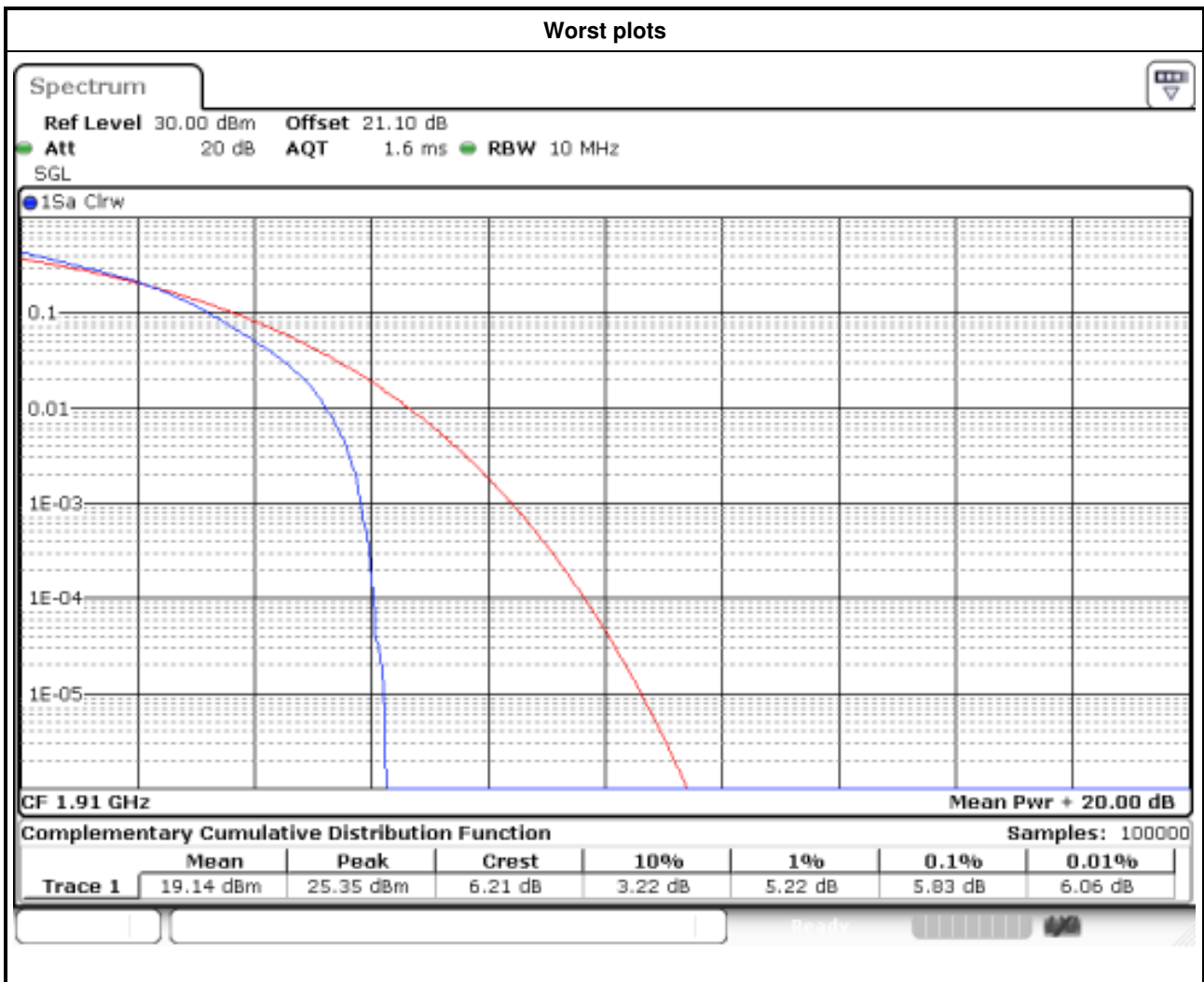
Mode	CB (MHz)	Modulation	Channel	Frequency (MHz)	Peak to Average ratio (dB)
LTE Band 25	3	QPSK	26055	1851.5	4.49
LTE Band 25	3	QPSK	26365	1882.5	4.81
LTE Band 25	3	QPSK	26675	1913.5	4.55
LTE Band 25	3	16QAM	26055	1851.5	5.36
LTE Band 25	3	16QAM	26365	1882.5	5.86
LTE Band 25	3	16QAM	26675	1913.5	5.68



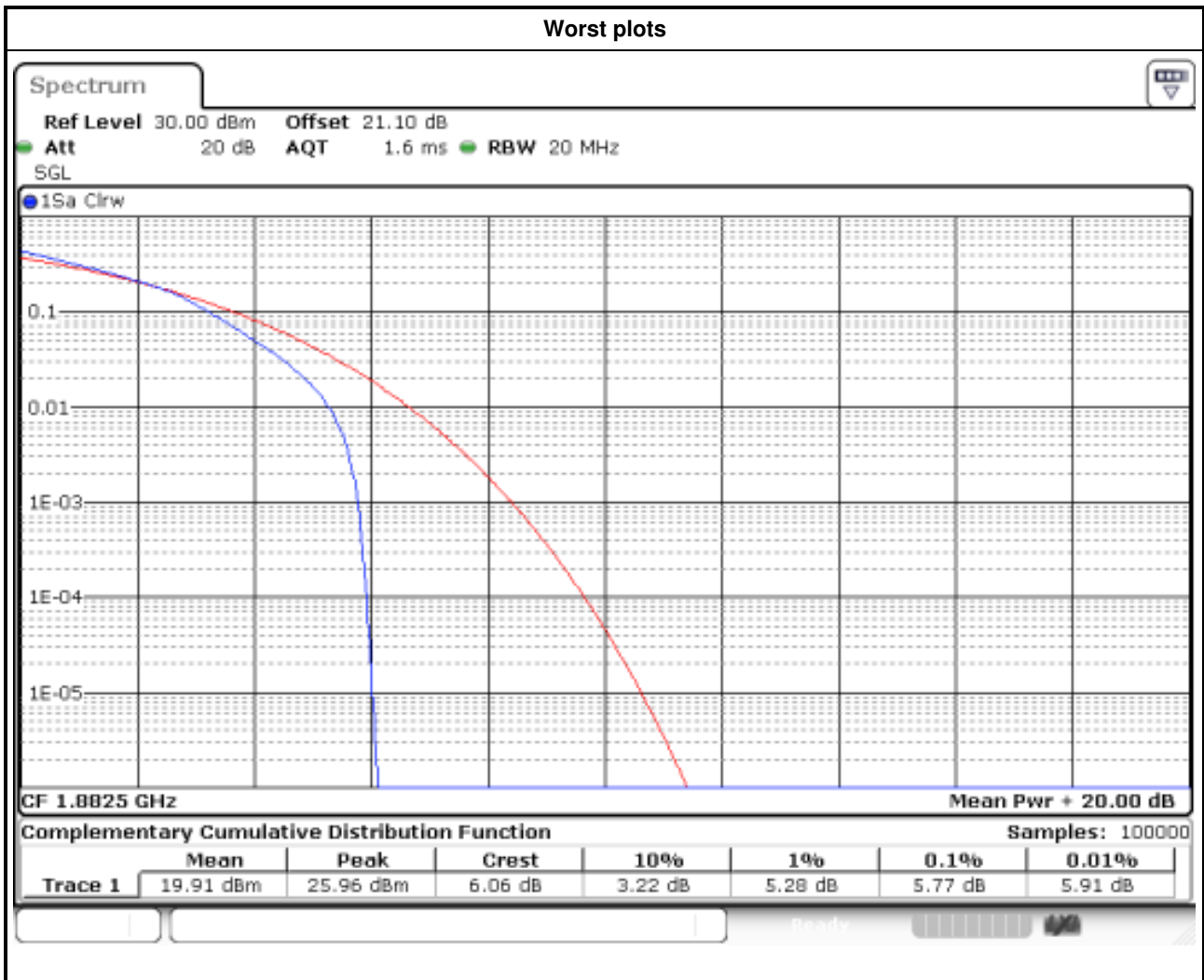
Mode	CB (MHz)	Modulation	Channel	Frequency (MHz)	Peak to Average ratio (dB)
LTE Band 25	5	QPSK	26065	1852.5	4.43
LTE Band 25	5	QPSK	26365	1882.5	4.81
LTE Band 25	5	QPSK	26665	1912.5	4.67
LTE Band 25	5	16QAM	26065	1852.5	5.62
LTE Band 25	5	16QAM	26365	1882.5	5.88
LTE Band 25	5	16QAM	26665	1912.5	5.74



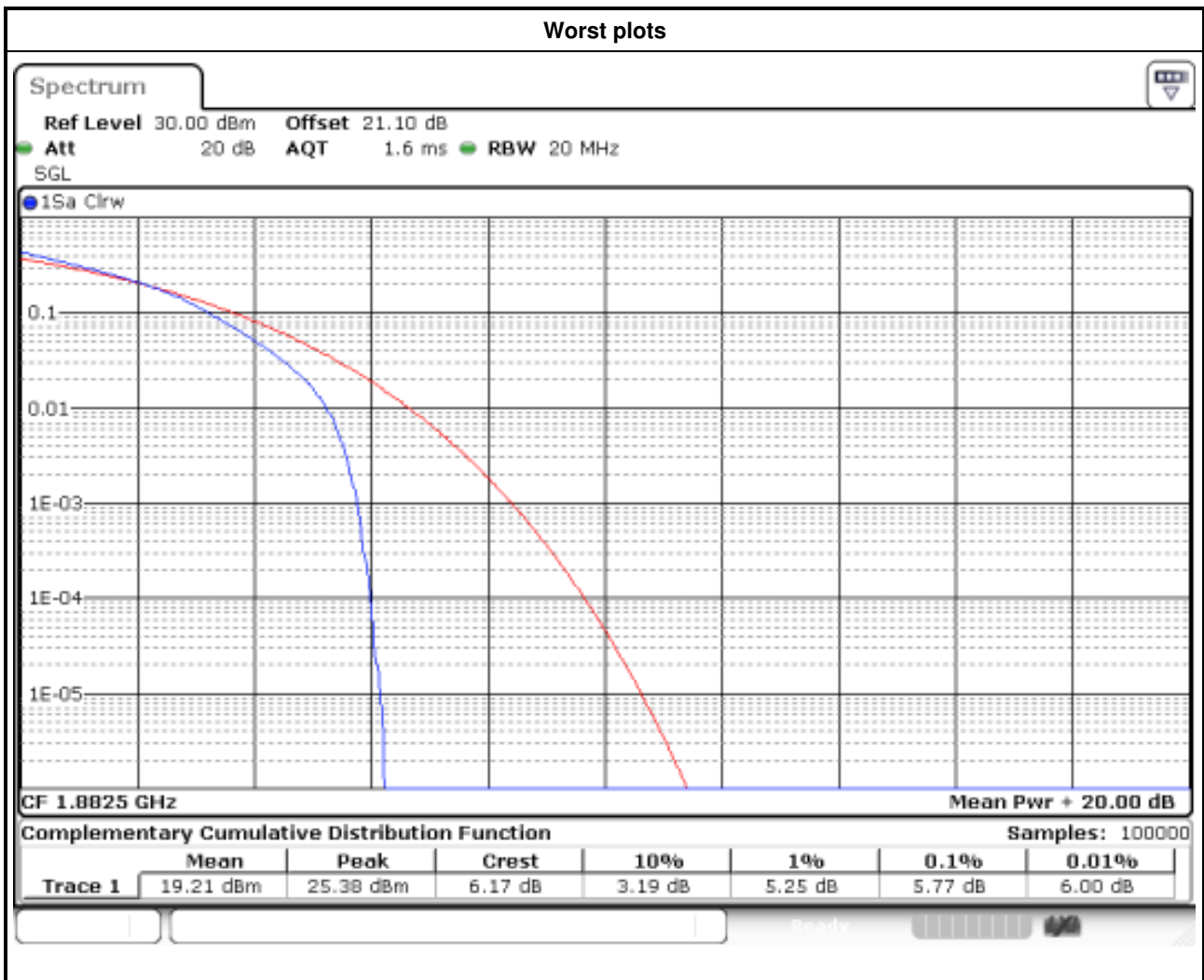
Mode	CB (MHz)	Modulation	Channel	Frequency (MHz)	Peak to Average ratio (dB)
LTE Band 25	10	QPSK	26090	1855.0	4.58
LTE Band 25	10	QPSK	26365	1882.5	4.70
LTE Band 25	10	QPSK	26640	1910.0	4.67
LTE Band 25	10	16QAM	26090	1855.0	5.48
LTE Band 25	10	16QAM	26365	1882.5	5.80
LTE Band 25	10	16QAM	26640	1910.0	5.83



Mode	CB (MHz)	Modulation	Channel	Frequency (MHz)	Peak to Average ratio (dB)
LTE Band 25	15	QPSK	26115	1857.5	4.87
LTE Band 25	15	QPSK	26365	1882.5	4.96
LTE Band 25	15	QPSK	26615	1907.5	4.96
LTE Band 25	15	16QAM	26115	1857.5	5.39
LTE Band 25	15	16QAM	26365	1882.5	5.77
LTE Band 25	15	16QAM	26615	1907.5	5.77



Mode	CB (MHz)	Modulation	Channel	Frequency (MHz)	Peak to Average ratio (dB)
LTE Band 25	20	QPSK	26140	1860.0	4.70
LTE Band 25	20	QPSK	26365	1882.5	4.78
LTE Band 25	20	QPSK	26590	1905.0	4.87
LTE Band 25	20	16QAM	26140	1860.0	5.48
LTE Band 25	20	16QAM	26365	1882.5	5.77
LTE Band 25	20	16QAM	26590	1905.0	5.77



3.7 Frequency Stability

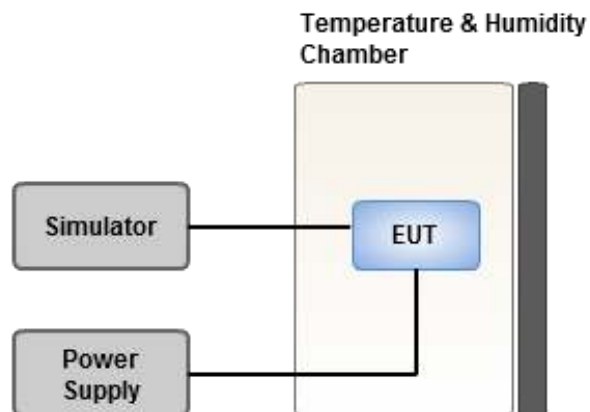
3.7.1 Limit of Frequency Stability

The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

3.7.2 Test Procedures

1. EUT was placed at temperature chamber and connected to an external power supply.
2. Temperature and voltage condition shall be tested to confirm frequency stability.
3. Temperature range is from -40~85°C and voltage range is from lowest to highest working voltage.
4. Tem Link up EUT and simulator. Confirm frequency drift value of simulator and record it.

3.7.3 Test Setup



3.7.4 Test Result of Frequency Stability

Channel Bandwidth: 1.4MHz

Frequency: 1882.5MHz	Frequency Drift (ppm)	
Temperature (°C)	Frequency Error (ppm)	Limit (ppm)
T20°CVmax	-0.001	2.5
T20°CVmin	-0.008	2.5
T85°CVnom	-0.009	2.5
T80°CVnom	0.008	2.5
T70°CVnom	-0.01	2.5
T60°CVnom	-0.003	2.5
T50°CVnom	0.004	2.5
T40°CVnom	0.005	2.5
T30°CVnom	-0.005	2.5
T20°CVnom	-0.004	2.5
T10°CVnom	0.003	2.5
T0°CVnom	-0.001	2.5
T-10°CVnom	0.002	2.5
T-20°CVnom	-0.003	2.5
T-30°CVnom	-0.005	2.5
T-40°CVnom	-0.006	2.5
Vnom [Vdc]: 3.8	Vmax [Vdc]: 4.2	Vmin [Vdc]: 3.4
Tnom [°C]: 20	Tmax [°C]: 85	Tmin [°C]: -40

Channel Bandwidth: 3MHz

Frequency: 1882.5MHz	Frequency Drift (ppm)	
Temperature (°C)	Frequency Error (ppm)	Limit (ppm)
T20°CVmax	-0.003	2.5
T20°CVmin	-0.004	2.5
T85°CVnom	0.008	2.5
T80°CVnom	-0.011	2.5
T70°CVnom	0.007	2.5
T60°CVnom	-0.003	2.5
T50°CVnom	0.005	2.5
T40°CVnom	-0.003	2.5
T30°CVnom	-0.004	2.5
T20°CVnom	0.008	2.5
T10°CVnom	-0.005	2.5
T0°CVnom	0.003	2.5
T-10°CVnom	-0.004	2.5
T-20°CVnom	0.003	2.5
T-30°CVnom	0.002	2.5
T-40°CVnom	-0.006	2.5
Vnom [Vdc]: 3.8	Vmax [Vdc]: 4.2	Vmin [Vdc]: 3.4
Tnom [°C]: 20	Tmax [°C]: 85	Tmin [°C]: -40

Channel Bandwidth: 5MHz

Frequency: 1882.5MHz	Frequency Drift (ppm)	
Temperature (°C)	Frequency Error (ppm)	Limit (ppm)
T20°CVmax	0.003	2.5
T20°CVmin	-0.006	2.5
T85°CVnom	0.009	2.5
T80°CVnom	-0.011	2.5
T70°CVnom	0.006	2.5
T60°CVnom	-0.003	2.5
T50°CVnom	-0.009	2.5
T40°CVnom	-0.008	2.5
T30°CVnom	-0.005	2.5
T20°CVnom	-0.009	2.5
T10°CVnom	0.009	2.5
T0°CVnom	-0.004	2.5
T-10°CVnom	-0.005	2.5
T-20°CVnom	-0.011	2.5
T-30°CVnom	-0.005	2.5
T-40°CVnom	-0.006	2.5
Vnom [Vdc]: 3.8	Vmax [Vdc]: 4.2	Vmin [Vdc]: 3.4
Tnom [°C]: 20	Tmax [°C]: 85	Tmin [°C]: -40

Channel Bandwidth: 10MHz

Frequency: 1882.5MHz	Frequency Drift (ppm)	
Temperature (°C)	Frequency Error (ppm)	Limit (ppm)
T20°CVmax	0.003	2.5
T20°CVmin	-0.006	2.5
T85°CVnom	-0.011	2.5
T80°CVnom	0.008	2.5
T70°CVnom	0.007	2.5
T60°CVnom	-0.003	2.5
T50°CVnom	-0.011	2.5
T40°CVnom	-0.012	2.5
T30°CVnom	-0.005	2.5
T20°CVnom	-0.009	2.5
T10°CVnom	0.009	2.5
T0°CVnom	-0.007	2.5
T-10°CVnom	-0.005	2.5
T-20°CVnom	-0.011	2.5
T-30°CVnom	-0.005	2.5
T-40°CVnom	-0.006	2.5
Vnom [Vdc]: 3.8	Vmax [Vdc]: 4.2	Vmin [Vdc]: 3.4
Tnom [°C]: 20	Tmax [°C]: 85	Tmin [°C]: -40

Channel Bandwidth: 15MHz

Frequency: 1882.5MHz	Frequency Drift (ppm)	
Temperature (°C)	Frequency Error (ppm)	Limit (ppm)
T20°CVmax	-0.008	2.5
T20°CVmin	-0.011	2.5
T85°CVnom	-0.009	2.5
T80°CVnom	-0.004	2.5
T70°CVnom	-0.009	2.5
T60°CVnom	-0.006	2.5
T50°CVnom	0.01	2.5
T40°CVnom	-0.009	2.5
T30°CVnom	0.011	2.5
T20°CVnom	-0.004	2.5
T10°CVnom	0.009	2.5
T0°CVnom	-0.006	2.5
T-10°CVnom	-0.011	2.5
T-20°CVnom	-0.009	2.5
T-30°CVnom	-0.008	2.5
T-40°CVnom	0.006	2.5
Vnom [Vdc]: 3.8	Vmax [Vdc]: 4.2	Vmin [Vdc]: 3.4
Tnom [°C]: 20	Tmax [°C]: 85	Tmin [°C]: -40

Channel Bandwidth: 20MHz

Frequency: 1882.5MHz	Frequency Drift (ppm)	
	Temperature (°C)	Frequency Error (ppm)
T20°CVmax	-0.011	2.5
T20°CVmin	-0.009	2.5
T85°CVnom	-0.008	2.5
T80°CVnom	-0.009	2.5
T70°CVnom	-0.011	2.5
T60°CVnom	0.01	2.5
T50°CVnom	0.09	2.5
T40°CVnom	-0.008	2.5
T30°CVnom	0.007	2.5
T20°CVnom	0.009	2.5
T10°CVnom	0.008	2.5
T0°CVnom	-0.007	2.5
T-10°CVnom	-0.011	2.5
T-20°CVnom	0.006	2.5
T-30°CVnom	0.008	2.5
T-40°CVnom	0.011	2.5
Vnom [Vdc]: 3.8	Vmax [Vdc]: 4.2	Vmin [Vdc]: 3.4
Tnom [°C]: 20	Tmax [°C]: 85	Tmin [°C]: -40

4 Test laboratory information

Established in 2012, ICC provides foremost EMC & RF Testing and advisory consultation services by our skilled engineers and technicians. Our services employ a wide variety of advanced edge test equipment and one of the widest certification extents in the business.

International Certification Corp (EMC and Wireless Communication Laboratory), it is our definitive objective is to institute long term, trust-based associations with our clients. The expectation we set up with our clients is based on outstanding service, practical expertise and devotion to a certified value structure. Our passion is to grant our clients with best EMC / RF services by oriented knowledgeable and accommodating staff.

Our Test sites are located at Linkou District and Kwei Shan District. Location map can be found on our website <http://www.icertifi.com.tw>.

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