



FCC RF Test Report

APPLICANT : Continental Aftermarket & Services GmbH
EQUIPMENT : RVD 4G OBD Dongle
BRAND NAME : Continental
MODEL NAME : GD504
FCC ID : 2AVAW-GD504
STANDARD : 47 CFR Part 2, 22(H), 24(E), 27(L), 27(H), 27(F)
CLASSIFICATION : PCS Licensed Transmitter (PCB)

The product was completely tested on Mar. 12, 2020. We, Sporton International (ShenZhen) Inc., would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.26-2015 and shown compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of Sporton International (ShenZhen) Inc., the test report shall not be reproduced except in full.

Reviewed by: Derreck Chen / Supervisor

Approved by: Eric Shih / Manager



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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FG9N0607B	Rev. 01	Initial issue of report	May 15, 2020

SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.4	§2.1046	Conducted Output Power	Reporting Only	PASS	-
	§22.913(a)(5)	Effective Radiated Power (Band 5) (Band 26)	ERP < 7 Watt	PASS	-
	§27.50(b)(10) §27.50(c)(10)	Effective Radiated Power (Band 12) (Band 13) (Band 17)	ERP < 3 Watt	PASS	-
	§24.232(c)	Equivalent Isotropic Radiated Power (Band 2) (Band 25)	EIRP < 2Watt	PASS	-
	§27.50(d)(4)	Equivalent Isotropic Radiated Power (Band 4)	EIRP < 1Watt	PASS	-
3.5	§24.232(d)	Peak-to-Average Ratio	<13 dB	PASS	-
3.6	§2.1049	Occupied Bandwidth	Reporting Only	PASS	-
3.7	§2.1051 §22.917(a) §24.238(a) §27.53(c)(2)(4) §27.53(g) §27.53(h)	Conducted Band Edge Measurement (Band 2) (Band 4) (Band 5) (Band 12) (Band 13) (Band 17) (Band 25) (Band 26)	< 43+10log10(P[Watts])	PASS	-
3.8	§2.1051 §22.917(a) §24.238(a) §27.53(c)(2) §27.53(g) §27.53(h)	Conducted Spurious Emission (Band 2) (Band 4) (Band 5) (Band 12) (Band 13) (Band 17) (Band 25) (Band 26)	< 43+10log10(P[Watts])	PASS	-
3.9	§2.1055 §22.355	Frequency Stability Temperature & Voltage	< 2.5 ppm for Part 22H	PASS	-
	§2.1055 §24.235 §27.54		Within Authorized Band		



Report Section	FCC Rule	Description	Limit	Result	Remark
4.4	§2.1053 §22.917(a) §24.238(a) §27.53(c)(2) §27.53(f) §27.53(g) §27.53(h)	Radiated Spurious Emission (Band 2) (Band 4) (Band 5) (Band 12) (Band 13) (Band 17) (Band 25) (Band 26)	$< 43 + 10\log_{10}(P[\text{Watts}])$	PASS	Under limit 0.86 dB at 1559.500 MHz

Declaration of Conformity:

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

Comments and Explanations:

The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.



1 General Description

1.1 Applicant

Continental Aftermarket & Services GmbH

Sodener Strasse 9, 65824 Schwalbach am Taunus, Germany

1.2 Manufacturer

Continental Aftermarket & Services GmbH

Sodener Strasse 9, 65824 Schwalbach am Taunus, Germany

1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	RVD 4G OBD Dongle
Brand Name	Continental
Model Name	GD504
FCC ID	2AVAW-GD504
EUT supports Radios application	WCDMA/LTE/GNSS WLAN 2.4GHz 802.11b/g/n HT20/HT40 WLAN 5GHz 802.11a/n HT20/HT40 WLAN 5GHz 802.11ac VHT20/VHT40/VHT80
IMEI Code	Conducted: 861473040026343 Radiation: 861473040025428
HW Version	GD504.H02
SW Version	03.01.01
EUT Stage	Identical Prototype

1.4 Product Specification of Equipment Under Test

Standards-related Product Specification	
Tx Frequency	LTE Band 2 : 1850.7 MHz ~ 1909.3 MHz LTE Band 4 : 1710.7 MHz ~ 1754.3 MHz LTE Band 5 : 824.7 MHz ~ 848.3 MHz LTE Band 12 : 699.7 MHz ~ 715.3 MHz LTE Band 13 : 779.5 MHz ~ 784.5 MHz LTE Band 17 : 706.5 MHz ~ 713.5 MHz LTE Band 25 : 1850.7MHz ~ 1914.3 MHz LTE Band 26 : 824.7MHz ~ 848.3 MHz
Rx Frequency	LTE Band 2 : 1930.7 MHz ~ 1989.3 MHz LTE Band 4 : 2110.7 MHz ~ 2154.3 MHz LTE Band 5 : 869.7 MHz ~ 893.3 MHz LTE Band 12 : 729.7 MHz ~ 745.3 MHz LTE Band 13 : 748.5 MHz ~ 753.5 MHz LTE Band 17 : 736.5 MHz ~ 743.5 MHz LTE Band 25 : 1930.7MHz ~ 1994.3 MHz LTE Band 26 : 869.7MHz ~ 893.3MHz
Bandwidth	LTE Band 2 : 1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz / 20MHz LTE Band 4 : 1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz / 20MHz LTE Band 5 : 1.4MHz / 3MHz / 5MHz / 10MHz LTE Band 12 : 1.4MHz / 3MHz / 5MHz / 10MHz LTE Band 13 : 5MHz / 10MHz LTE Band 17 : 5MHz / 10MHz LTE Band 25 : 1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz / 20MHz LTE Band 26 : 1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz
Maximum Output Power to Antenna	LTE Band 2 : 22.92 dBm LTE Band 4 : 22.95 dBm LTE Band 5 : 23.47 dBm LTE Band 12 : 23.63 dBm LTE Band 13 : 23.73 dBm LTE Band 17 : 23.62 dBm LTE Band 25 : 22.91 dBm LTE Band 26 : 23.48 dBm
Antenna Gain	LTE Band 2 : 1.00 dBi LTE Band 4 : 1.20 dBi LTE Band 5 : 1.00 dBi LTE Band 12 : -1.50 dBi LTE Band 13 : -1.50 dBi LTE Band 17 : -1.50 dBi LTE Band 25 : 1.00 dBi LTE Band 26 : 1.00 dBi
Type of Modulation	QPSK / 16QAM

1.5 Modification of EUT

No modifications are made to the EUT during all test items.



1.6 Maximum ERP/EIRP, Frequency Tolerance, and Emission Designator

LTE Band 2		QPSK			16QAM		
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum EIRP(W)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum EIRP(W)
1.4	1850.7 ~ 1909.3	1M10G7D	-	0.2421	1M10W7D	-	0.1950
3	1851.5 ~ 1908.5	2M73G7D	-	0.2270	2M72W7D	-	0.1766
5	1852.5 ~ 1907.5	4M51G7D	-	0.2307	4M50W7D	-	0.1854
10	1855.0 ~ 1905.0	9M03G7D	0.0018	0.2415	9M03W7D	-	0.1901
15	1857.5 ~ 1902.5	13M5G7D	-	0.2460	13M4W7D	-	0.1854
20	1860.0 ~ 1900.0	18M3G7D	-	0.2466	18M4W7D	-	0.1807
LTE Band 25		QPSK			16QAM		
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum EIRP(W)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum EIRP(W)
1.4	1850.7 ~ 1914.3	1M12G7D	-	0.2410	1M11W7D	-	0.1954
3	1851.5 ~ 1913.5	2M75G7D	-	0.2377	2M73W7D	-	0.1875
5	1852.5 ~ 1912.5	4M56G7D	-	0.2377	4M51W7D	-	0.1919
10	1855.0 ~ 1910.0	9M07G7D	0.0009	0.2449	9M01W7D	-	0.1892
15	1857.5 ~ 1907.5	13M4G7D	-	0.2404	13M5W7D	-	0.1854
20	1860.0 ~ 1905.0	17M9G7D	-	0.2460	17M8W7D	-	0.1791
LTE Band 4		QPSK			16QAM		
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum EIRP(W)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum EIRP(W)
1.4	1710.7 ~ 1754.3	1M09G7D	-	0.2399	1M10W7D	-	0.2042
3	1711.5 ~ 1753.5	2M73G7D	-	0.2377	2M72W7D	-	0.1811
5	1712.5 ~ 1752.5	4M51G7D	-	0.2518	4M50W7D	-	0.1950
10	1715.0 ~ 1750.0	9M05G7D	0.0003	0.2582	9M05W7D	-	0.1991
15	1717.5 ~ 1747.5	13M4G7D	-	0.2460	13M5W7D	-	0.1977
20	1720.0 ~ 1745.0	17M8G7D	-	0.2600	17M9W7D	-	0.1841
LTE Band 5		QPSK			16QAM		
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum ERP(W)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum ERP(W)
1.4	824.7 ~ 848.3	1M10G7D	-	0.1690	1M09W7D	-	0.1390
3	825.5 ~ 847.5	2M73G7D	-	0.1683	2M73W7D	-	0.1288
5	826.5 ~ 846.5	4M49G7D	-	0.1687	4M53W7D	-	0.1259
10	829.0 ~ 844.0	9M07G7D	0.0056	0.1706	9M01W7D	-	0.1365



LTE Band 12		QPSK			16QAM		
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum ERP(W)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum ERP(W)
1.4	699.7 ~ 715.3	1M11G7D	-	0.0991	1M10W7D	-	0.0757
3	700.5 ~ 714.5	2M72G7D	-	0.0982	2M72W7D	-	0.0745
5	701.5 ~ 713.5	4M47G7D	-	0.0971	4M50W7D	-	0.0794
10	704.0 ~ 711.0	9M05G7D	0.0013	0.0995	9M03W7D	-	0.0760
LTE Band 13		QPSK			16QAM		
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum ERP(W)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum ERP(W)
5	779.5 ~ 784.5	4M52G7D	-	0.1016	4M51W7D	-	0.0826
10	782.0	8M89G7D	0.0008	0.1019	8M97W7D	-	0.0769
LTE Band 17		QPSK			16QAM		
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum ERP(W)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum ERP(W)
5	706.5 ~ 713.5	4M50G7D	-	0.0966	4M51W7D	-	0.0740
10	709.0 ~ 711.0	9M03G7D	0.0008	0.0993	8M99W7D	-	0.0760
LTE Band 26		QPSK			16QAM		
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum ERP(W)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum ERP(W)
1.4	824.7 ~ 848.3	1M11G7D	-	0.1706	1M10W7D	-	0.1400
3	825.5 ~ 847.5	2M72G7D	-	0.1648	2M73W7D	-	0.1291
5	826.5 ~ 846.5	4M49G7D	-	0.1644	4M51W7D	-	0.1265
10	829.0 ~ 844.0	9M05G7D	0.0017	0.1671	9M07W7D	-	0.1330
15	831.5 ~ 841.5	13M5G7D	-	0.1710	13M5W7D	-	0.1294
CH26765	821.5	13M5G7D	-	0.1600	13M5W7D	-	0.1250



1.7 Testing Location

Sporton International (Shenzhen) Inc. is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.01.

Test Firm	Sporton International (Shenzhen) Inc.		
Test Site Location	1/F, 2/F, Bldg 5, Shiling Industrial Zone, Xinwei Village, Xili, Nanshan, Shenzhen, 518055 People's Republic of China TEL: +86-755-86379589 FAX: +86-755-86379595		
Test Site No.	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.
	TH01-SZ	CN1256	421272

Test Firm	Sporton International (Shenzhen) Inc.		
Test Site Location	No. 3 Bldg the third floor of south, Shahe River west, Fengzeyuan Warehouse, Nanshan Shenzhen, 518055 People's Republic of China TEL: +86-755-33202398		
Test Site No.	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.
	03CH02-SZ	CN1256	421272

1.8 Test Software

Item	Site	Manufacture	Name	Version
1.	03CH02-SZ	AUDIX	E3	6.2009-8-24a

1.9 Applicable Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- 47 CFR Part 2, 22(H), 24(E), 27(L), 27(H), 27(F)
- ANSI C63.26-2015
- FCC KDB 971168 D01 Power Meas License Digital Systems v03r01
- FCC KDB 412172 D01 Determining ERP and EIRP v01r01

Remark:

1. All test items were verified and recorded according to the standards and without any deviation during the test.
2. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.



2 Test Configuration of Equipment Under Test

2.1 Test Mode

Antenna port conducted and radiated test items listed below are performed according to KDB 971168 D01 Power Meas License Digital Systems v03r01 with maximum output power.

Radiated measurements are performed by rotating the EUT in three different orthogonal test planes to find the maximum emission.

Test Items	Band	Bandwidth (MHz)						Modulation			RB #			Test Channel		
		1.4	3	5	10	15	20	QPSK	16QAM	64QAM	1	Half	Full	L	M	H
Max. Output Power	2	v	v	v	v	v	v	v	v		v	v	v	v	v	v
	4	v	v	v	v	v	v	v	v		v	v	v	v	v	v
	5	v	v	v	v	-	-	v	v		v	v	v	v	v	v
	12	v	v	v	v	-	-	v	v		v	v	v	v	v	v
	13	-	-	v		-	-	v	v		v	v	v	v	v	v
		-	-		v	-	-	v	v		v	v	v		v	
	17	-	-	v	v	-	-	v	v		v	v	v	v	v	v
	25	v	v	v	v	v	v	v	v		v	v	v	v	v	v
	26	v	v	v	v	v	-	v	v		v	v	v	v	v	v
Peak-to-Average Ratio	2						v	v	v		v		v	v	v	v
	4						v	v	v		v		v	v	v	v
	5				v	-	-	v	v		v		v	v	v	v
	12				v	-	-	v	v		v		v	v	v	v
	13	-	-		v	-	-	v	v		v		v		v	
	17	-	-		v	-	-	v	v		v		v	v	v	v
	25						v	v	v		v		v	v	v	v
	26				v		-	v	v		v		v	v	v	v



Test Items	Band	Bandwidth (MHz)						Modulation			RB #			Test Channel		
		1.4	3	5	10	15	20	QPSK	16QAM	64QAM	1	Half	Full	L	M	H
26dB and 99% Bandwidth	2	v	v	v	v	v	v	v	v				v	v	v	v
	4	v	v	v	v	v	v	v	v				v	v	v	v
	5	v	v	v	v	-	-	v	v				v	v	v	v
	12	v	v	v	v	-	-	v	v				v	v	v	v
	13	-	-	v		-	-	v	v				v	v	v	v
		-	-		v	-	-	v	v				v		v	
	17	-	-	v	v	-	-	v	v				v	v	v	v
	25	v	v	v	v	v	v	v	v				v	v	v	v
	26	v	v	v	v	v	-	v	v				v	v	v	v
Conducted Band Edge	2	v	v	v	v	v	v	v	v		v		v	v		v
	4	v	v	v	v	v	v	v	v		v		v	v		v
	5	v	v	v	v	-	-	v	v		v		v	v		v
	12	v	v	v	v	-	-	v	v		v		v	v		v
	13	-	-	v		-	-	v	v		v		v	v		v
		-	-		v	-	-	v	v		v		v		v	
	17	-	-	v	v	-	-	v	v		v		v	v		v
	25	v	v	v	v	v	v	v	v		v		v	v		v
	26	v	v	v	v	v	-	v	v		v		v	v		v

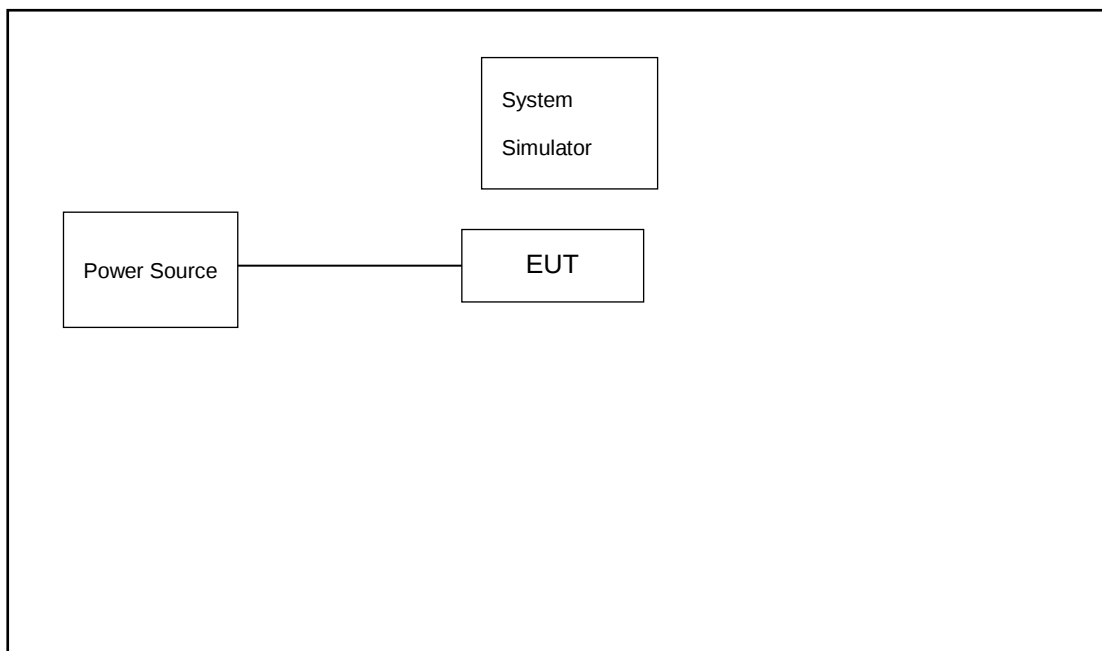


Test Items	Band	Bandwidth (MHz)						Modulation			RB #			Test Channel		
		1.4	3	5	10	15	20	QPSK	16QAM	64QAM	1	Half	Full	L	M	H
Conducted Spurious Emission	2	v	v	v	v	v	v	v	v		v			v	v	v
	4	v	v	v	v	v	v	v	v		v			v	v	v
	5	v	v	v	v	-	-	v	v		v			v	v	v
	12	v	v	v	v	-	-	v	v		v			v	v	v
	13	-	-	v		-	-	v	v		v			v	v	v
		-	-		v	-	-	v	v		v				v	
	17	-	-	v	v	-	-	v	v		v			v	v	v
	25	v	v	v	v	v	v	v	v		v			v	v	v
	26	v	v	v	v	v	-	v	v		v			v	v	v
Frequency Stability	2				v			v					v		v	
	4				v			v					v		v	
	5				v	-	-	v					v		v	
	12				v	-	-	v					v		v	
	13	-	-		v	-	-	v					v		v	
	17	-	-		v	-	-	v					v		v	
	25				v			v					v		v	
	26				v		-	v					v		v	



Test Items	Band	Bandwidth (MHz)						Modulation			RB #			Test Channel		
		1.4	3	5	10	15	20	QPSK	16QAM	64QAM	1	Half	Full	L	M	H
E.R.P / E.I.R.P	2	v	v	v	v	v	v	v	v		v			v	v	v
	4	v	v	v	v	v	v	v	v		v			v	v	v
	5	v	v	v	v	-	-	v	v		v			v	v	v
	12	v	v	v	v	-	-	v	v		v			v	v	v
	13	-	-	v		-	-	v	v		v			v	v	v
		-	-		v	-	-	v	v		v				v	
	17	-	-	v	v	-	-	v	v		v			v	v	v
	25	v	v	v	v	v	v	v	v		v			v	v	v
Radiated Spurious Emission	2	v	v	v	v	v	v	v			v			v	v	v
	4	v	v	v	v	v	v	v			v			v	v	v
	5	v	v	v	v	-	-	v			v			v	v	v
	12	v	v	v	v	-	-	v					v	v	v	v
	13	-	-	v		-	-	v					v	v	v	v
		-	-		v	-	-	v					v		v	
	17	-	-	v	v	-	-	v					v	v	v	v
	25	v	v	v	v	v	v	v			v			v	v	v
Note	26	v	v	v	v	v	-	v			v			v	v	v
	1. The mark "v" means that this configuration is chosen for testing															
	2. The mark "- " means that this bandwidth is not supported.															
	3. The device is investigated from 30MHz to 10 times of fundamental signal for radiated spurious emission test under different RB size/offset and modulations in exploratory test. Subsequently, only the worst case emissions are reported.															

2.2 Connection Diagram of Test System



2.3 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model No.	FCC ID	Data Cable	Power Cord
1.	System Simulator	Anritsu	MT8820C	N/A	N/A	Unshielded, 1.8 m
2.	DC Power Supply	GWINSTEK	GPS-3030D	N/A	N/A	Unshielded, 1.8 m
3.	Adapter	N/A	N/A	N/A	Unshielded,1.2m	N/A
4.	Test Jig	N/A	N/A	N/A	N/A	N/A

2.4 Measurement Results Explanation Example

For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuator factor between EUT conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly the EUT RF output level.

The spectrum analyzer offset is derived from RF cable loss and attenuator factor.

Offset = RF cable loss + attenuator factor.

Following shows an offset computation example with cable loss 4.5 dB and 10dB attenuator.

Example :

$$\begin{aligned} \text{Offset(dB)} &= \text{RF cable loss(dB)} + \text{attenuator factor(dB)} \\ &= 4.5 + 10 = 14.5 \text{ (dB)} \end{aligned}$$

2.5 Frequency List of Low/Middle/High Channels

LTE Band 2 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	18700	18900	19100
	Frequency	1860	1880	1900
15	Channel	18675	18900	19125
	Frequency	1857.5	1880	1902.5
10	Channel	18650	18900	19150
	Frequency	1855	1880	1905
5	Channel	18625	18900	19175
	Frequency	1852.5	1880	1907.5
3	Channel	18615	18900	19185
	Frequency	1851.5	1880	1908.5
1.4	Channel	18607	18900	19193
	Frequency	1850.7	1880	1909.3



LTE Band 4 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	20050	20175	20300
	Frequency	1720	1732.5	1745
15	Channel	20025	20175	20325
	Frequency	1717.5	1732.5	1747.5
10	Channel	20000	20175	20350
	Frequency	1715	1732.5	1750
5	Channel	19975	20175	20375
	Frequency	1712.5	1732.5	1752.5
3	Channel	19965	20175	20385
	Frequency	1711.5	1732.5	1753.5
1.4	Channel	19957	20175	20393
	Frequency	1710.7	1732.5	1754.3

LTE Band 5 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
10	Channel	20450	20525	20600
	Frequency	829	836.5	844
5	Channel	20425	20525	20625
	Frequency	826.5	836.5	846.5
3	Channel	20415	20525	20635
	Frequency	825.5	836.5	847.5
1.4	Channel	20407	20525	20643
	Frequency	824.7	836.5	848.3



LTE Band 12 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
10	Channel	23060	23095	23130
	Frequency	704	707.5	711
5	Channel	23035	23095	23155
	Frequency	701.5	707.5	713.5
3	Channel	23025	23095	23165
	Frequency	700.5	707.5	714.5
1.4	Channel	23017	23095	23173
	Frequency	699.7	707.5	715.3

LTE Band 13 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
10	Channel	-	23230	-
	Frequency	-	782	-
5	Channel	23205	23230	23255
	Frequency	779.5	782	784.5



LTE Band 17 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
10	Channel	23780	23790	23800
	Frequency	709	710	711
5	Channel	23755	23790	23825
	Frequency	706.5	710	713.5

LTE Band 25 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	26140	26340	26590
	Frequency	1860	1880	1905
15	Channel	26115	26340	26615
	Frequency	1857.5	1880	1907.5
10	Channel	26090	26340	26640
	Frequency	1855	1880	1910
5	Channel	26065	26340	26665
	Frequency	1852.5	1880	1912.5
3	Channel	26055	26340	26675
	Frequency	1851.5	1880	1913.5
1.4	Channel	26047	26340	26683
	Frequency	1850.7	1880	1914.3

LTE Band 26 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
15	Channel	26865	26915	26965
	Frequency	831.5	836.5	841.5
10	Channel	26840	26915	26990
	Frequency	829	836.5	844
5	Channel	26815	26915	27015
	Frequency	826.5	836.5	846.5
3	Channel	26805	26915	27025
	Frequency	825.5	836.5	847.5
1.4	Channel	26797	26915	27033
	Frequency	824.7	836.5	848.3

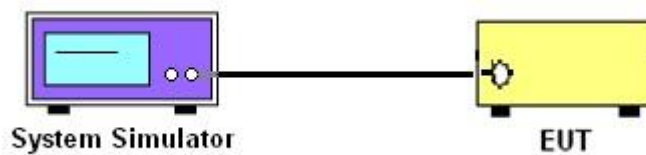
3 Conducted Test Items

3.1 Measuring Instruments

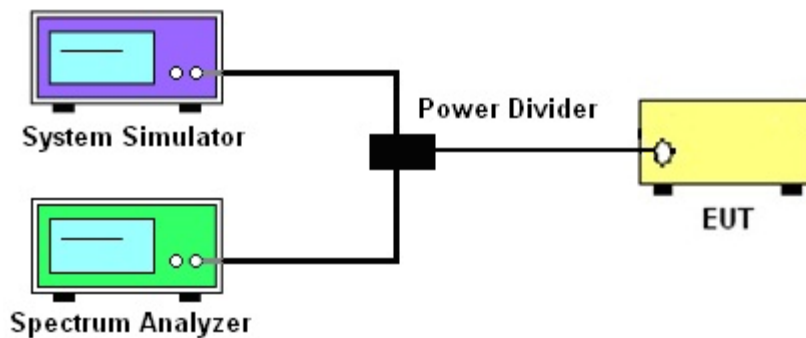
See list of measuring instruments of this test report.

3.2 Test Setup

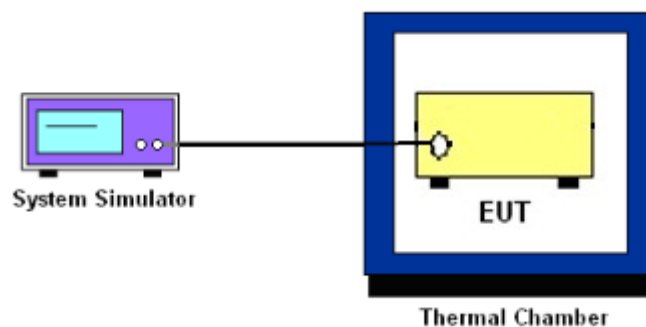
3.2.1 Conducted Output Power



3.2.2 Peak-to-Average Ratio, Occupied Bandwidth ,Conducted Band-Edge and Conducted Spurious Emission



3.2.3 Frequency Stability



3.3 Test Result of Conducted Test

Please refer to Appendix A.

3.4 Conducted Output Power and ERP/EIRP

3.4.1 Description of the Conducted Output Power Measurement and ERP/EIRP Measurement

A system simulator was used to establish communication with the EUT. Its parameters were set to force the EUT transmitting at maximum output power. The measured power in the radio frequency on the transmitter output terminals shall be reported.

The ERP of mobile transmitters must not exceed 7 Watts for LTE Band 5 and Band 26.

The ERP of mobile transmitters must not exceed 3 Watts for LTE Band 12, Band 13 and Band 17.

The EIRP of mobile transmitters must not exceed 2 Watts for LTE Band 2 and Band 25.

The EIRP of mobile transmitters must not exceed 1 Watts for LTE Band 4.

According to KDB 412172 D01 Power Approach,

$EIRP = P_T + G_T - L_C$, $ERP = EIRP - 2.15$, where

P_T = transmitter output power in dBm

G_T = gain of the transmitting antenna in dBi

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

3.4.2 Test Procedures

1. The testing follows ANSI C63.26 Section 5.2
2. The transmitter output port was connected to the system simulator.
3. Set EUT at maximum power through the system simulator.
4. Select lowest, middle, and highest channels for each band and different modulation.
5. Measure and record the power level from the system simulator.

3.5 Peak-to-Average Ratio

3.5.1 Description of the PAR Measurement

Power Complementary Cumulative Distribution Function (CCDF) curves provide a means for characterizing the power peaks of a digitally modulated signal on a statistical basis. A CCDF curve depicts the probability of the peak signal amplitude exceeding the average power level. Most contemporary measurement instrumentation include the capability to produce CCDF curves for an input signal provided that the instrument's resolution bandwidth can be set wide enough to accommodate the entire input signal bandwidth. 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.

3.5.2 Test Procedures

1. The testing follows ANSI C63.26 Section 5.2.3.4 (CCDF).
2. The EUT was connected to spectrum and system simulator via a power divider.
3. Set the CCDF (Complementary Cumulative Distribution Function) option in spectrum analyzer.
4. The highest RF powers were measured and recorded the maximum PAPR level associated with a probability of 0.1 %.
5. Record the deviation as Peak to Average Ratio.

3.6 Occupied Bandwidth

3.6.1 Description of Occupied Bandwidth Measurement

The occupied bandwidth is 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 transmitted power.

The 26 dB emission bandwidth is defined as the frequency range between two points, one above and one below the carrier frequency, at which the spectral density of the emission is attenuated 26 dB below the maximum in-band spectral density of the modulated signal. Spectral density (power per unit bandwidth) is to be measured with a detector of resolution bandwidth equal to approximately 1.0% of the emission bandwidth.

3.6.2 Test Procedures

1. The testing follows ANSI C63.26 Section 5.4
2. The EUT was connected to spectrum analyzer and system simulator via a power divider.
3. The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The span range for the spectrum analyzer shall be between two and five times the anticipated OBW.
4. The nominal resolution bandwidth (RBW) shall be in the range of 1 to 5 % of the anticipated OBW, and the VBW shall be at least 3 times the RBW.
5. Set the detection mode to peak, and the trace mode to max hold.
6. Determine the reference value: Set the EUT to transmit a modulated signal. Allow the trace to stabilize. Set the spectrum analyzer marker to the highest level of the displayed trace.
(this is the reference value)
7. Determine the “-26 dB down amplitude” as equal to (Reference Value – X).
8. Place two markers, one at the lowest and the other at the highest frequency of the envelope of the spectral display such that each marker is at or slightly below the “-X dB down amplitude” determined in step 6. If a marker is below this “-X dB down amplitude” value it shall be placed as close as possible to this value. The OBW is the positive frequency difference between the two markers.
9. Use the 99 % power bandwidth function of the spectrum analyzer and report the measured bandwidth.

3.7 Conducted Band Edge

3.7.1 Description of Conducted Band Edge Measurement

22.917(a)

For operations in the 824 – 849 MHz band, the FCC limit is $43 + 10\log_{10}(P[\text{Watts}])$ dB below the transmitter power $P(\text{Watts})$ in a 100kHz bandwidth. However, in the 1MHz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.

24.238 (a)

For operations in the 1850-1910 and 1930-1990 MHz band, the FCC limit is $43 + 10\log_{10}(P[\text{Watts}])$ dB below the transmitter power $P(\text{Watts})$ in a 1MHz bandwidth. However, in the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.

27.53 (c)

For operations in the 776-788 MHz band, the FCC limit is $43 + 10\log_{10}(P[\text{Watts}])$ dB below the transmitter power $P(\text{Watts})$ in a 100 kHz bandwidth. However, in the 100 kHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of at least 30 kHz may be employed. In addition, the power of any unwanted emissions in any 6.25 kHz bandwidth for all frequencies between 763-775 MHz and 793-806 MHz shall be attenuated below the transmitter power, P (dBW), by at least $65 + 10 \log_{10} p(\text{watts})$, dB, for mobile and portable equipment.

27.53 (g)

For operations in the 600MHz band and 698 -746 MHz band, the FCC limit is $43 + 10\log_{10}(P[\text{Watts}])$ dB below the transmitter power $P(\text{Watts})$ in a 100 kHz bandwidth. However, in the 100 kilohertz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed.

27.53 (h)

For operations in the 1710 – 1755 MHz band, the FCC limit is $43 + 10\log_{10}(P[\text{Watts}])$ dB below the transmitter power $P(\text{Watts})$ in a 1 MHz bandwidth. However, in the 1MHz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.

3.7.2 Test Procedures

1. The testing follows ANSI C63.26 section 5.7
2. The EUT was connected to spectrum analyzer and system simulator via a power divider.
3. The band edges of low and high channels for the highest RF powers were measured.
4. Set RBW $\geq$ 1% EBW in the 1MHz band immediately outside and adjacent to the band edge.
5. Beyond the 1 MHz band from the band edge, RBW=1MHz was used.
6. Set spectrum analyzer with RMS detector.
7. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
8. Checked that all the results comply with the emission limit line.

Example:

The limit line is derived from $43 + 10\log(P)$ dB below the transmitter power P(Watts)

$= P(W) - [43 + 10\log(P)]$ (dB)

$= [30 + 10\log(P)]$ (dBm) - $[43 + 10\log(P)]$ (dB) = -13dBm.

3.8 Conducted Spurious Emission

3.8.1 Description of Conducted Spurious Emission Measurement

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

It is measured by means of a calibrated spectrum analyzer and scanned from 30 MHz up to a frequency including its 10th harmonic.

3.8.2 Test Procedures

1. The testing follows ANSI C63.26 section 5.7
2. The EUT was connected to spectrum analyzer and system simulator via a power divider.
3. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator.
The path loss was compensated to the results for each measurement.
4. The middle channel for the highest RF power within the transmitting frequency was measured.
5. The conducted spurious emission for the whole frequency range was taken.
6. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz.
7. Set spectrum analyzer with RMS detector.
8. Taking the record of maximum spurious emission.
9. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
10. The limit line is derived from $43 + 10\log(P)$ dB below the transmitter power P(Watts)
 $= P(W) - [43 + 10\log(P)]$ (dB)
 $= [30 + 10\log(P)]$ (dBm) - $[43 + 10\log(P)]$ (dB)
 $= -13$ dBm.

3.9 Frequency Stability

3.9.1 Description of Frequency Stability Measurement

The frequency stability shall be measured by variation of ambient temperature and variation of primary supply voltage to ensure that the fundamental emission stays within the authorized frequency block. The frequency stability of the transmitter shall be maintained within $\pm 0.00025\%$ ($\pm 2.5\text{ppm}$) of the center frequency.

3.9.2 Test Procedures for Temperature Variation

1. The testing follows ANSI C63.26 section 5.6.4
2. The EUT was set up in the thermal chamber and connected with the system simulator.
3. With power OFF, the temperature was decreased to -30°C and the EUT was stabilized before testing. Power was applied and the maximum change in frequency was recorded within one minute.
4. With power OFF, the temperature was raised in 10°C step up to 50°C . The EUT was stabilized at each step for at least half an hour. Power was applied and the maximum frequency change was recorded within one minute.

3.9.3 Test Procedures for Voltage Variation

1. The testing follows ANSI C63.26 section 5.6.5
2. The EUT was placed in a temperature chamber at $20\pm 5^{\circ}\text{C}$ and connected with the system simulator.
3. The power supply voltage to the EUT was varied from 85% to 115% of the nominal value for other than hand carried battery equipment.
4. For hand carried, battery powered equipment, reduce the primary ac or dc supply voltage to the battery operating end point, which shall be specified by the manufacturer.
5. The variation in frequency was measured for the worst case.

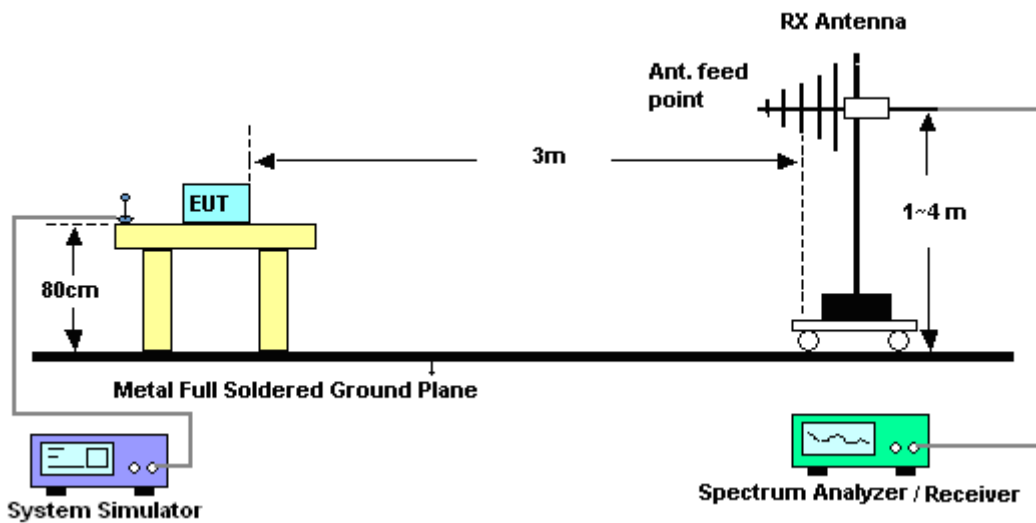
4 Radiated Test Items

4.1 Measuring Instruments

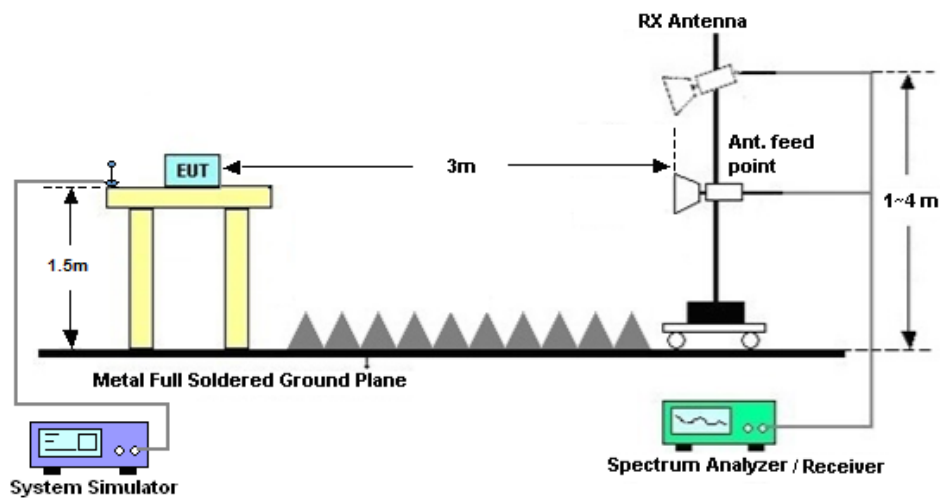
See list of measuring instruments of this test report.

4.2 Test Setup

4.2.1 For radiated test from 30MHz to 1GHz



4.2.2 For radiated test above 1GHz



4.3 Test Result of Radiated Test

Please refer to Appendix B.

4.4 Radiated Spurious Emission

4.4.1 Description of Radiated Spurious Emission

The radiated spurious emission was measured by substitution method according to ANSI C63.26. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least $43 + 10 \log (P)$ dB.

For LTE Band 13

For operations in the 746-758 MHz, 775-788 MHz, and 805-806 MHz bands, emissions in the band 1559-1610 MHz shall be limited to -70 dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals, and -80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth.

The spectrum is scanned from 30 MHz up to a frequency including its 10th harmonic.

4.4.2 Test Procedures

1. The testing follows ANSI C63.26 Section 5.5
2. The EUT was placed on a turntable with 0.8 meter height for frequency below 1GHz and 1.5 meter height for frequency above 1GHz respectively above ground.
3. The EUT was set 3 meters from the receiving antenna mounted on the antenna tower.
4. The table was rotated 360 degrees to determine the position of the highest spurious emission.
5. The height of the receiving antenna is varied between 1m to 4m to search the maximum spurious emission for both horizontal and vertical polarizations.
6. During the measurement, the system simulator parameters were set to force the EUT transmitting at maximum output power.
7. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking the record of maximum spurious emission.
8. A horn antenna was substituted in place of the EUT and was driven by a signal generator.
9. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
10. $\text{EIRP (dBm)} = \text{S.G. Power} - \text{Tx Cable Loss} + \text{Tx Antenna Gain}$
11. $\text{ERP (dBm)} = \text{EIRP} - 2.15$
12. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

The limit line is derived from $43 + 10\log(P)$ dB below the transmitter power P(Watts)
 $= P(W) - [43 + 10\log(P)] \text{ (dB)}$
 $= [30 + 10\log(P)] \text{ (dBm)} - [43 + 10\log(P)] \text{ (dB)}$
 $= -13\text{dBm}.$



5 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSV40	101078	10Hz~40GHz	Apr. 18, 2019	Nov. 01, 2019~ Mar. 02, 2020	Apr. 17, 2020	Conducted (TH01-SZ)
DC Power Supply	GWINSTEK	AnritsuGPS-3030D	EM882636	Max 30V	Apr. 18, 2019	Nov. 01, 2019~ Mar. 02, 2020	Apr. 17, 2020	Conducted (TH01-SZ)
Thermal Chamber	Ten Billion Hongzhangroup	LP-150U	H2014081803	-40~+150°C	Dec. 22, 2018	Nov. 01, 2019~ Nov. 24, 2019	Dec. 21, 2019	Conducted (TH01-SZ)
Thermal Chamber	Ten Billion Hongzhangroup	LP-150U	H2014081803	-40~+150°C	Nov. 26, 2019	Feb. 26, 2020~ Mar. 02, 2020	Nov. 25, 2020	Conducted (TH01-SZ)
EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY55150213	10Hz~44GHz	Apr. 19, 2019	Nov. 11, 2019~ Mar. 12, 2020	Apr. 18, 2020	Radiation (03CH02-SZ)
Bilog Antenna	TeseQ	CBL6112D	35407	30MHz~2GHz	Jul. 19, 2019	Nov. 11, 2019~ Mar. 12, 2020	Jul. 18, 2020	Radiation (03CH02-SZ)
Double Ridge Horn Antenna	ETS-Lindgren	3117	00119436	1GHz~18GHz	Aug. 27, 2019	Nov. 11, 2019~ Mar. 12, 2020	Aug. 26, 2020	Radiation (03CH02-SZ)
HF Amplifier	MITEQ	TTA1840-35-HG	1871923	18GHz~40GHz	Jul. 22, 2019	Nov. 11, 2019~ Mar. 12, 2020	Jul. 21, 2020	Radiation (03CH02-SZ)
SHF-EHF Horn	com-power	AH-840	101071	18Ghz~40GHz	Apr. 18, 2019	Nov. 11, 2019~ Mar. 12, 2020	Apr. 17, 2020	Radiation (03CH02-SZ)
LF Amplifier	Burgeon	BPA-530	102211	0.01~3000Mhz	Oct. 18, 2019	Nov. 11, 2019~ Mar. 12, 2020	Oct. 17, 2020	Radiation (03CH02-SZ)
HF Amplifier	KEYSIGHT	83017A	MY53270105	0.5GHz~26.5Ghz	Oct. 18, 2019	Nov. 11, 2019~ Mar. 12, 2020	Oct. 17, 2020	Radiation (03CH02-SZ)
AC Power Source	Chroma	61601	616010002470	N/A	NCR	Nov. 11, 2019~ Mar. 12, 2020	NCR	Radiation (03CH02-SZ)
Turn Table	Chaintek	T-200	N/A	0~360 degree	NCR	Nov. 11, 2019~ Mar. 12, 2020	NCR	Radiation (03CH02-SZ)
Antenna Mast	Chaintek	MBS-400	N/A	1 m~4 m	NCR	Nov. 11, 2019~ Mar. 12, 2020	NCR	Radiation (03CH02-SZ)

NCR: No Calibration Required.

6 Uncertainty of Evaluation

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI 63.26-2015. All the measurement uncertainty value were shown with a coverage $K=2$ to indicate 95% level of confidence. The measurement data show herein meets or exceeds the CISPR measurement uncertainty values specified in CISPR 16-4-2 and can be compared directly to specified limit to determine compliance.

Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	2.5dB
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Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	3.3dB
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Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	3.7dB
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Appendix A. Test Results of Conducted Test

Conducted Output Power(Average power)

LTE Band 2 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
20	1	0	QPSK	22.56	22.59	22.92
20	1	49		22.48	22.58	22.53
20	1	99		22.30	22.37	22.51
20	50	0		21.67	21.64	21.68
20	50	24		21.56	21.60	21.49
20	50	50		21.57	21.59	21.54
20	100	0		21.67	21.41	21.68
20	1	0	16-QAM	21.50	21.57	21.52
20	1	49		21.45	21.43	21.42
20	1	99		21.28	21.36	21.37
20	50	0		20.70	20.49	20.72
20	50	24		20.60	20.55	20.58
20	50	50		20.57	20.62	20.61
20	100	0		20.65	20.47	20.60
15	1	0	QPSK	22.57	22.45	22.63
15	1	37		22.91	22.57	22.75
15	1	74		22.64	22.70	22.64
15	36	0		21.75	21.52	21.57
15	36	20		21.73	21.46	21.51
15	36	39		21.60	21.47	21.56
15	75	0		21.73	21.51	21.55
15	1	0	16-QAM	21.47	21.43	21.50
15	1	37		21.68	21.21	21.42
15	1	74		21.41	21.38	21.37
15	36	0		20.68	20.48	20.62
15	36	20		20.70	20.59	20.62
15	36	39		20.70	20.51	20.63
15	75	0		20.83	20.54	20.68



LTE Band 2 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	0	QPSK	22.45	22.42	22.35
10	1	25		22.83	22.46	22.66
10	1	49		22.48	22.61	22.45
10	25	0		21.53	21.51	21.60
10	25	12		21.66	21.49	21.53
10	25	25		21.61	21.64	21.56
10	50	0		21.60	21.59	21.55
10	1	0	16-QAM	21.46	21.46	21.34
10	1	25		21.61	21.46	21.61
10	1	49		21.42	21.79	21.44
10	25	0		20.66	20.51	20.66
10	25	12		20.70	20.70	20.59
10	25	25		20.70	20.77	20.69
10	50	0		20.74	20.61	20.70
5	1	0	QPSK	22.47	22.42	22.48
5	1	12		22.58	22.53	22.63
5	1	24		22.60	22.43	22.36
5	12	0		21.46	21.48	21.56
5	12	7		21.58	21.50	21.51
5	12	13		21.57	21.52	21.48
5	25	0		21.55	21.57	21.56
5	1	0	16-QAM	21.68	21.28	21.38
5	1	12		21.43	21.23	21.16
5	1	24		21.29	21.20	21.26
5	12	0		20.51	20.44	20.62
5	12	7		20.61	20.57	20.55
5	12	13		20.64	20.54	20.47
5	25	0		20.59	20.53	20.72



LTE Band 2 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
3	1	0	QPSK	22.49	22.47	22.54
3	1	8		22.45	22.47	22.28
3	1	14		22.52	22.56	22.32
3	8	0		21.67	21.67	21.75
3	8	4		21.72	21.61	21.62
3	8	7		21.77	21.59	21.53
3	15	0		21.75	21.67	21.58
3	1	0	16-QAM	21.12	21.47	21.31
3	1	8		21.37	21.30	21.26
3	1	14		21.45	21.17	21.35
3	8	0		20.69	20.58	20.68
3	8	4		20.78	20.71	20.65
3	8	7		20.75	20.86	20.54
3	15	0		20.75	20.71	20.73
1.4	1	0	QPSK	22.31	22.53	22.60
1.4	1	3		22.49	22.68	22.66
1.4	1	5		22.64	22.61	22.61
1.4	3	0		22.63	22.66	22.74
1.4	3	1		22.78	22.84	22.64
1.4	3	3		22.73	22.77	22.65
1.4	6	0		21.74	21.72	21.64
1.4	1	0	16-QAM	21.77	21.78	21.47
1.4	1	3		21.90	21.85	21.83
1.4	1	5		21.60	21.46	21.65
1.4	3	0		21.73	21.57	21.84
1.4	3	1		21.80	21.69	21.82
1.4	3	3		21.82	21.57	21.67
1.4	6	0		20.70	20.69	20.54



LTE Band 25 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
20	1	0	QPSK	22.52	22.54	22.53
20	1	49		22.91	22.63	22.67
20	1	99		22.35	22.57	21.92
20	50	0		21.84	21.69	21.55
20	50	24		21.62	21.56	21.48
20	50	50		21.60	21.51	21.44
20	100	0		21.63	21.54	21.45
20	1	0	16-QAM	21.31	21.41	21.32
20	1	49		21.53	21.42	21.38
20	1	99		21.27	21.34	20.90
20	50	0		20.89	20.64	20.65
20	50	24		20.77	20.67	20.67
20	50	50		20.70	20.69	20.64
20	100	0		20.71	20.56	20.43
15	1	0	QPSK	22.62	22.57	22.34
15	1	37		22.81	22.54	22.78
15	1	74		22.70	22.69	21.91
15	36	0		21.80	21.63	21.59
15	36	20		21.66	21.55	21.40
15	36	39		21.66	21.58	21.39
15	75	0		21.59	21.51	21.44
15	1	0	16-QAM	21.64	21.48	21.39
15	1	37		21.68	21.60	21.34
15	1	74		21.49	21.31	20.85
15	36	0		20.77	20.74	20.64
15	36	20		20.75	20.66	20.53
15	36	39		20.73	20.67	20.42
15	75	0		20.75	20.62	20.65



LTE Band 25 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	0	QPSK	22.48	22.58	22.41
10	1	25		22.89	22.45	22.33
10	1	49		22.69	22.56	21.96
10	25	0		21.71	21.58	21.44
10	25	12		21.75	21.49	21.38
10	25	25		21.64	21.55	21.39
10	50	0		21.73	21.54	21.41
10	1	0	16-QAM	21.61	21.67	21.40
10	1	25		21.73	21.77	21.46
10	1	49		21.58	21.46	20.97
10	25	0		20.85	20.71	20.58
10	25	12		21.04	20.62	20.52
10	25	25		20.76	20.75	20.50
10	50	0		20.94	20.58	20.44
5	1	0	QPSK	22.48	22.58	22.54
5	1	12		22.64	22.72	22.53
5	1	24		22.76	22.64	21.93
5	12	0		21.58	21.53	21.39
5	12	7		21.68	21.52	21.43
5	12	13		21.71	21.57	21.65
5	25	0		21.68	21.48	21.47
5	1	0	16-QAM	21.79	21.31	21.22
5	1	12		21.83	21.36	21.21
5	1	24		21.45	21.25	21.25
5	12	0		20.64	20.44	20.46
5	12	7		20.64	20.44	20.33
5	12	13		20.82	20.47	20.33
5	25	0		20.75	20.62	20.38



LTE Band 25 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
3	1	0	QPSK	22.63	22.62	22.69
3	1	8		22.76	22.56	22.25
3	1	14		22.76	22.68	21.93
3	8	0		21.69	21.56	21.69
3	8	4		21.78	21.67	21.50
3	8	7		21.85	21.65	21.65
3	15	0		21.75	21.55	21.51
3	1	0	16-QAM	21.73	21.40	21.66
3	1	8		21.44	21.35	21.41
3	1	14		21.57	21.44	21.20
3	8	0		20.79	20.71	20.43
3	8	4		20.80	20.70	20.62
3	8	7		20.88	20.68	20.43
3	15	0		20.72	20.62	20.61
1.4	1	0	QPSK	22.38	22.37	22.48
1.4	1	3		22.52	22.53	22.48
1.4	1	5		22.47	22.46	22.41
1.4	3	0		22.70	22.67	22.54
1.4	3	1		22.82	22.71	22.52
1.4	3	3		22.78	22.76	22.40
1.4	6	0		21.66	21.55	21.22
1.4	1	0	16-QAM	21.46	21.34	21.34
1.4	1	3		21.61	21.58	21.60
1.4	1	5		21.52	21.28	21.35
1.4	3	0		21.59	21.53	21.51
1.4	3	1		21.89	21.66	21.53
1.4	3	3		21.91	21.55	21.52
1.4	6	0		20.79	20.68	20.47



LTE Band 4 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
20	1	0	QPSK	22.04	22.28	22.95
20	1	49		22.34	22.26	22.47
20	1	99		22.31	22.11	22.34
20	50	0		21.47	21.49	21.65
20	50	24		21.43	21.42	21.55
20	50	50		21.43	21.28	21.54
20	100	0		21.42	21.49	21.68
20	1	0	16-QAM	21.17	21.21	21.45
20	1	49		21.31	21.44	21.42
20	1	99		21.22	21.31	21.29
20	50	0		20.35	20.47	20.65
20	50	24		20.57	20.49	20.64
20	50	50		20.47	20.27	20.64
20	100	0		20.45	20.42	20.61
15	1	0	QPSK	22.23	22.39	22.71
15	1	37		22.32	22.58	22.60
15	1	74		22.35	22.33	22.53
15	36	0		21.48	21.58	21.78
15	36	20		21.39	21.44	21.62
15	36	39		21.58	21.39	21.61
15	75	0		21.49	21.52	21.76
15	1	0	16-QAM	21.32	21.35	21.76
15	1	37		21.37	21.42	21.36
15	1	74		21.42	20.87	21.52
15	36	0		20.56	20.58	20.87
15	36	20		20.51	20.46	20.58
15	36	39		20.55	20.43	20.67
15	75	0		20.57	20.53	20.73



LTE Band 4 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	0	QPSK	22.16	22.36	22.64
10	1	25		22.41	22.55	22.92
10	1	49		22.65	22.33	22.52
10	25	0		21.47	21.54	21.82
10	25	12		21.39	21.41	21.71
10	25	25		21.44	21.44	21.78
10	50	0		21.55	21.54	21.82
10	1	0	16-QAM	21.23	21.28	21.64
10	1	25		21.29	21.79	21.63
10	1	49		21.33	21.57	21.54
10	25	0		20.67	20.58	20.96
10	25	12		20.49	20.52	20.77
10	25	25		20.46	20.48	20.84
10	50	0		20.57	20.58	20.91
5	1	0	QPSK	22.21	22.24	22.65
5	1	12		22.41	22.56	22.81
5	1	24		22.48	22.31	22.76
5	12	0		21.44	21.61	21.84
5	12	7		21.25	21.50	21.60
5	12	13		21.40	21.47	21.83
5	25	0		21.40	21.58	21.85
5	1	0	16-QAM	21.13	21.70	21.56
5	1	12		20.76	21.36	21.40
5	1	24		21.15	21.23	21.50
5	12	0		20.48	20.65	21.00
5	12	7		20.38	20.56	20.60
5	12	13		20.55	20.48	20.85
5	25	0		20.37	20.54	20.95



LTE Band 4 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
3	1	0	QPSK	22.29	22.56	22.48
3	1	8		22.17	22.40	22.24
3	1	14		22.36	22.48	22.54
3	8	0		21.28	21.42	21.48
3	8	4		21.38	21.48	21.57
3	8	7		21.45	21.40	21.61
3	15	0		21.31	21.44	21.61
3	1	0	16-QAM	21.04	21.19	21.36
3	1	8		20.97	21.22	21.22
3	1	14		20.74	21.38	21.29
3	8	0		20.41	20.57	20.64
3	8	4		20.25	20.62	20.72
3	8	7		20.31	20.53	20.69
3	15	0		20.34	20.55	20.66
1.4	1	0	QPSK	22.11	22.39	22.51
1.4	1	3		22.34	22.50	22.54
1.4	1	5		22.15	22.30	22.48
1.4	3	0		22.30	22.47	22.57
1.4	3	1		22.49	22.52	22.60
1.4	3	3		22.41	22.42	22.56
1.4	6	0		21.34	21.54	21.62
1.4	1	0	16-QAM	21.38	21.62	21.75
1.4	1	3		21.60	21.79	21.90
1.4	1	5		21.08	21.58	21.76
1.4	3	0		21.18	21.46	21.56
1.4	3	1		21.38	21.49	21.59
1.4	3	3		21.38	21.47	21.55
1.4	6	0		20.36	20.48	20.66



LTE Band 5 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	0	QPSK	23.14	23.25	23.17
10	1	25		23.47	23.27	23.25
10	1	49		23.29	22.91	22.98
10	25	0		22.33	22.35	22.34
10	25	12		22.30	22.21	22.24
10	25	25		22.29	22.22	22.17
10	50	0		22.35	22.33	22.26
10	1	0	16-QAM	22.01	22.04	22.01
10	1	25		22.28	22.30	22.25
10	1	49		22.50	22.03	22.15
10	25	0		21.34	21.38	21.26
10	25	12		21.31	21.33	21.23
10	25	25		21.55	21.20	21.11
10	50	0		21.38	21.13	21.25
5	1	0	QPSK	23.13	23.19	23.09
5	1	12		23.28	23.42	23.25
5	1	24		23.38	22.99	22.99
5	12	0		22.31	22.34	22.31
5	12	7		22.38	22.25	22.20
5	12	13		22.35	22.25	22.28
5	25	0		22.37	22.34	22.26
5	1	0	16-QAM	22.04	22.05	22.09
5	1	12		22.15	22.08	21.85
5	1	24		22.15	21.99	22.07
5	12	0		21.24	21.19	21.20
5	12	7		21.43	21.34	21.25
5	12	13		21.42	21.33	21.26
5	25	0		21.48	21.28	21.23



LTE Band 5 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
3	1	0	QPSK	23.39	23.37	23.21
3	1	8		23.41	23.22	23.10
3	1	14		23.32	23.18	23.27
3	8	0		22.37	22.37	22.30
3	8	4		22.43	22.33	22.39
3	8	7		22.44	22.29	22.35
3	15	0		22.33	22.31	22.19
3	1	0	16-QAM	22.16	22.17	21.93
3	1	8		22.17	22.13	22.20
3	1	14		22.24	22.08	22.25
3	8	0		21.44	21.35	21.30
3	8	4		21.45	21.32	21.35
3	8	7		21.49	21.39	21.44
3	15	0		21.44	21.33	21.32
1.4	1	0	QPSK	23.11	23.08	23.25
1.4	1	3		23.27	23.18	23.27
1.4	1	5		23.27	23.04	23.15
1.4	3	0		23.32	23.36	23.34
1.4	3	1		23.43	23.39	23.34
1.4	3	3		23.40	23.28	23.31
1.4	6	0		22.38	22.29	22.34
1.4	1	0	16-QAM	22.18	22.18	22.17
1.4	1	3		22.49	22.28	22.58
1.4	1	5		22.43	22.13	22.19
1.4	3	0		22.47	22.32	22.24
1.4	3	1		22.51	22.34	22.26
1.4	3	3		22.32	22.31	22.39
1.4	6	0		21.35	21.27	21.29



LTE Band 26 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
15	1	0	QPSK	23.07	23.17	23.09
15	1	37		23.19	23.48	23.15
15	1	74		23.15	23.17	22.55
15	36	0		22.34	22.38	22.35
15	36	20		22.33	22.30	22.31
15	36	39		22.25	22.29	22.31
15	75	0		22.31	22.37	22.34
15	1	0	16-QAM	22.12	22.26	22.23
15	1	37		22.00	22.16	22.18
15	1	74		22.12	22.27	21.79
15	36	0		21.28	21.35	21.32
15	36	20		21.31	21.36	21.39
15	36	39		21.32	21.33	21.23
15	75	0		21.39	21.41	21.36
10	1	0	QPSK	23.10	23.01	23.20
10	1	25		23.23	23.38	23.21
10	1	49		23.02	23.06	22.43
10	25	0		22.41	22.38	22.38
10	25	12		22.36	22.42	22.33
10	25	25		22.38	22.39	22.29
10	50	0		22.48	22.40	22.43
10	1	0	16-QAM	22.23	22.27	22.27
10	1	25		22.31	22.33	22.39
10	1	49		22.19	22.26	21.56
10	25	0		21.50	21.41	21.48
10	25	12		21.54	21.62	21.45
10	25	25		21.45	21.44	21.35
10	50	0		21.60	21.51	21.47



LTE Band 26 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	23.10	22.92	23.16
5	1	12		23.26	23.31	23.12
5	1	24		22.97	23.28	22.50
5	12	0		22.40	22.44	22.33
5	12	7		22.37	22.41	22.25
5	12	13		22.29	22.23	22.24
5	25	0		22.36	22.34	22.38
5	1	0	16-QAM	22.17	22.12	22.12
5	1	12		22.13	22.17	21.92
5	1	24		22.04	22.14	21.90
5	12	0		21.42	21.33	21.53
5	12	7		21.38	21.44	21.37
5	12	13		21.30	21.39	21.05
5	25	0		21.43	21.37	21.37
3	1	0	QPSK	23.30	23.32	23.12
3	1	8		23.13	23.18	22.90
3	1	14		23.16	23.20	22.60
3	8	0		22.43	22.39	22.47
3	8	4		22.43	22.38	22.33
3	8	7		22.31	22.38	22.31
3	15	0		22.39	22.35	22.35
3	1	0	16-QAM	22.21	22.26	22.13
3	1	8		22.13	22.06	22.09
3	1	14		22.22	22.09	21.95
3	8	0		21.42	21.55	21.49
3	8	4		21.24	21.55	21.39
3	8	7		21.46	21.54	21.34
3	15	0		21.42	21.48	21.35



LTE Band 26 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
1.4	1	0	QPSK	23.12	23.22	22.92
1.4	1	3		23.20	23.37	22.82
1.4	1	5		23.16	23.17	22.70
1.4	3	0		23.34	23.47	22.84
1.4	3	1		23.38	23.34	22.84
1.4	3	3		23.30	23.32	22.74
1.4	6	0		22.37	22.43	22.37
1.4	1	0	16-QAM	22.21	22.50	22.24
1.4	1	3		22.37	22.60	22.20
1.4	1	5		22.46	22.47	22.08
1.4	3	0		22.49	22.43	22.05
1.4	3	1		22.55	22.38	22.05
1.4	3	3		22.61	22.27	21.94
1.4	6	0		21.51	21.38	21.52



LTE Band 12 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	0	QPSK	22.76	23.06	22.99
10	1	25		23.42	23.38	23.63
10	1	49		22.86	23.16	23.24
10	25	0		22.16	22.25	22.32
10	25	12		22.30	22.15	22.35
10	25	25		22.16	22.27	22.37
10	50	0		22.30	22.25	22.34
10	1	0	16-QAM	21.72	21.78	21.90
10	1	25		22.27	22.37	22.32
10	1	49		21.95	22.46	22.02
10	25	0		21.21	21.03	21.28
10	25	12		21.40	21.02	21.30
10	25	25		21.11	21.22	21.30
10	50	0		21.24	21.20	21.33
5	1	0	QPSK	23.00	23.12	23.01
5	1	12		23.52	23.27	23.19
5	1	24		23.20	23.09	23.24
5	12	0		22.20	22.36	22.45
5	12	7		22.34	22.36	22.45
5	12	13		22.30	22.29	22.35
5	25	0		22.30	22.33	22.39
5	1	0	16-QAM	22.04	21.93	22.33
5	1	12		22.10	21.84	22.65
5	1	24		22.23	22.00	22.20
5	12	0		21.30	21.20	21.47
5	12	7		21.34	21.19	21.51
5	12	13		21.40	21.30	21.47
5	25	0		21.37	21.33	21.33



LTE Band 12 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
3	1	0	QPSK	23.25	23.13	23.23
3	1	8		23.11	23.10	23.28
3	1	14		23.21	23.13	23.57
3	8	0		22.34	22.43	22.37
3	8	4		22.35	22.34	22.37
3	8	7		22.30	22.29	22.37
3	15	0		22.27	22.32	22.41
3	1	0	16-QAM	22.07	21.95	22.12
3	1	8		22.02	22.16	22.18
3	1	14		22.35	22.17	22.37
3	8	0		21.30	21.30	21.48
3	8	4		21.22	21.13	21.32
3	8	7		21.45	21.26	21.43
3	15	0		21.28	21.25	21.38
1.4	1	0	QPSK	22.92	23.20	23.28
1.4	1	3		23.03	23.22	23.34
1.4	1	5		22.97	23.19	23.46
1.4	3	0		23.13	23.26	23.37
1.4	3	1		23.25	23.37	23.54
1.4	3	3		23.31	23.39	23.61
1.4	6	0		22.21	22.29	22.40
1.4	1	0	16-QAM	22.11	22.12	22.26
1.4	1	3		22.24	22.15	22.44
1.4	1	5		22.20	22.07	22.21
1.4	3	0		22.22	22.20	22.36
1.4	3	1		22.30	22.30	22.38
1.4	3	3		22.26	22.29	22.51
1.4	6	0		21.13	21.01	21.43



LTE Band 13 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	23.29	23.72	23.47
5	1	12		23.72	23.53	23.70
5	1	24		23.55	23.25	23.58
5	12	0		22.79	22.73	22.64
5	12	7		22.82	22.58	22.71
5	12	13		22.81	22.60	22.82
5	25	0		22.72	22.67	22.72
5	1	0	16-QAM	21.98	22.59	22.46
5	1	12		22.66	22.36	22.82
5	1	24		22.37	22.21	22.55
5	12	0		21.67	21.83	21.50
5	12	7		21.79	21.49	21.83
5	12	13		21.80	21.39	21.88
5	25	0		21.81	21.61	21.71
10	1	0	QPSK		23.34	
10	1	25			23.73	
10	1	49			23.51	
10	25	0			22.73	
10	25	12			22.48	
10	25	25			22.49	
10	50	0			22.54	
10	1	0	16-QAM		21.69	
10	1	25			22.51	
10	1	49			22.27	
10	25	0			21.80	
10	25	12			21.62	
10	25	25			21.56	
10	50	0			21.50	



LTE Band 17 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	0	QPSK	23.62	23.27	23.18
10	1	25		23.57	23.58	23.35
10	1	49		23.44	23.52	23.51
10	25	0		22.58	22.45	22.48
10	25	12		22.50	22.45	22.51
10	25	25		22.56	22.51	22.55
10	50	0		22.54	22.51	22.53
10	1	0	16-QAM	22.31	22.21	22.24
10	1	25		22.46	22.34	22.38
10	1	49		22.41	22.18	22.32
10	25	0		21.72	21.34	21.63
10	25	12		21.53	21.50	21.56
10	25	25		21.54	21.48	21.42
10	50	0		21.52	21.37	21.49
5	1	0	QPSK	23.38	23.28	23.25
5	1	12		23.44	23.24	23.28
5	1	24		23.24	23.46	23.50
5	12	0		22.52	22.41	22.39
5	12	7		22.50	22.44	22.32
5	12	13		22.53	22.38	22.52
5	25	0		22.52	22.51	22.47
5	1	0	16-QAM	22.23	22.20	22.34
5	1	12		22.07	22.25	22.16
5	1	24		22.20	22.09	22.21
5	12	0		21.47	21.15	21.15
5	12	7		21.32	21.39	21.19
5	12	13		21.40	21.40	21.37
5	25	0		21.58	21.42	21.20

ERP/EIRP

LTE Band 2 (GT - LC = 1.00 dB) QPSK									
Bandwidth	1.4M			3M			5M		
Channel	18607	18900	19193	18615	18900	19185	18625	18900	19175
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency	1850.7	1880	1909.3	1851.5	1880	1908.5	1852.5	1880	1907.5
(MHz)									
Conducted Power (dBm)	22.78	22.84	22.64	22.52	22.56	22.32	22.58	22.53	22.63
Conducted Power (Watts)	0.1897	0.1923	0.1837	0.1786	0.1803	0.1706	0.1811	0.1791	0.1832
EIRP(dBm)	23.78	23.84	23.64	23.52	23.56	23.32	23.58	23.53	23.63
EIRP(Watts)	0.2388	0.2421	0.2312	0.2249	0.2270	0.2148	0.2280	0.2254	0.2307

LTE Band 2 (GT - LC = 1.00 dB) QPSK									
Bandwidth	10M			15M			20M		
Channel	18650	18900	19150	18675	18900	19125	18650	18900	19100
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency	1855	1880	1905	1857.5	1880	1902.5	1860	1880	1900
(MHz)									
Conducted Power (dBm)	22.83	22.46	22.66	22.91	22.57	22.75	22.56	22.59	22.92
Conducted Power (Watts)	0.1919	0.1762	0.1845	0.1954	0.1807	0.1884	0.1803	0.1816	0.1959
EIRP(dBm)	23.83	23.46	23.66	23.91	23.57	23.75	23.56	23.59	23.92
EIRP(Watts)	0.2415	0.2218	0.2323	0.2460	0.2275	0.2371	0.2270	0.2286	0.2466



LTE Band 2 (GT - LC = 1.00 dB) 16QAM									
Bandwidth	1.4M			3M			5M		
Channel	18607	18900	19193	18615	18900	19185	18625	18900	19175
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency	1850.7	1880	1909.3	1851.5	1880	1908.5	1852.5	1880	1907.5
(MHz)									
Conducted Power (dBm)	21.90	21.85	21.83	21.12	21.47	21.31	21.68	21.28	21.38
Conducted Power (Watts)	0.1549	0.1531	0.1524	0.1294	0.1403	0.1352	0.1472	0.1343	0.1374
EIRP(dBm)	22.90	22.85	22.83	22.12	22.47	22.31	22.68	22.28	22.38
EIRP(Watts)	0.1950	0.1928	0.1919	0.1629	0.1766	0.1702	0.1854	0.1690	0.1730

LTE Band 2 (GT - LC = 1.00 dB) 16QAM									
Bandwidth	10M			15M			20M		
Channel	18650	18900	19150	18675	18900	19125	18650	18900	19100
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency	1855	1880	1905	1857.5	1880	1902.5	1860	1880	1900
(MHz)									
Conducted Power (dBm)	21.42	21.79	21.44	21.68	21.21	21.42	21.50	21.57	21.52
Conducted Power (Watts)	0.1387	0.1510	0.1393	0.1472	0.1321	0.1387	0.1413	0.1435	0.1419
EIRP(dBm)	22.42	22.79	22.44	22.68	22.21	22.42	22.50	22.57	22.52
EIRP(Watts)	0.1746	0.1901	0.1754	0.1854	0.1663	0.1746	0.1778	0.1807	0.1786



LTE Band 4 (GT - LC = 1.20 dB) QPSK									
Bandwidth	1.4M			3M			5M		
Channel	19957	20175	20393	19965	20175	20385	19975	20175	20375
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency	1710.7	1732.5	1754.3	1711.5	1732.5	1753.5	1712.5	1732.5	1752.5
(MHz)									
Conducted Power (dBm)	22.49	22.52	22.60	22.29	22.56	22.48	22.41	22.56	22.81
Conducted Power (Watts)	0.1774	0.1786	0.1820	0.1694	0.1803	0.1770	0.1742	0.1803	0.1910
EIRP(dBm)	23.69	23.72	23.80	23.49	23.76	23.68	23.61	23.76	24.01
EIRP(Watts)	0.2339	0.2355	0.2399	0.2234	0.2377	0.2333	0.2296	0.2377	0.2518

LTE Band 4 (GT - LC = 1.20 dB) QPSK									
Bandwidth	10M			15M			20M		
Channel	20000	20175	20350	20025	20175	20325	20050	20175	20300
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency	1715	1732.5	1750	1717.5	1732.5	1747.5	1720	1732.5	1745
(MHz)									
Conducted Power (dBm)	22.41	22.55	22.92	22.23	22.39	22.71	22.04	22.28	22.95
Conducted Power (Watts)	0.1742	0.1799	0.1959	0.1671	0.1734	0.1866	0.1600	0.1690	0.1972
EIRP(dBm)	23.61	23.75	24.12	23.43	23.59	23.91	23.24	23.48	24.15
EIRP(Watts)	0.2296	0.2371	0.2582	0.2203	0.2286	0.2460	0.2109	0.2228	0.2600



LTE Band 4 (GT - LC = 1.20 dB) 16QAM									
Bandwidth	1.4M			3M			5M		
Channel	19957	20175	20393	19965	20175	20385	19975	20175	20375
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency	1710.7	1732.5	1754.3	1711.5	1732.5	1753.5	1712.5	1732.5	1752.5
(MHz)									
Conducted Power (dBm)	21.60	21.79	21.90	20.74	21.38	21.29	21.13	21.70	21.56
Conducted Power (Watts)	0.1445	0.1510	0.1549	0.1186	0.1374	0.1346	0.1297	0.1479	0.1432
EIRP(dBm)	22.80	22.99	23.10	21.94	22.58	22.49	22.33	22.90	22.76
EIRP(Watts)	0.1905	0.1991	0.2042	0.1563	0.1811	0.1774	0.1710	0.1950	0.1888

LTE Band 4 (GT - LC = 1.20 dB) 16QAM									
Bandwidth	10M			15M			20M		
Channel	20000	20175	20350	20025	20175	20325	20050	20175	20300
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency	1715	1732.5	1750	1717.5	1732.5	1747.5	1720	1732.5	1745
(MHz)									
Conducted Power (dBm)	21.29	21.79	21.63	21.32	21.35	21.76	21.17	21.21	21.45
Conducted Power (Watts)	0.1346	0.1510	0.1455	0.1355	0.1365	0.1500	0.1309	0.1321	0.1396
EIRP(dBm)	22.49	22.99	22.83	22.52	22.55	22.96	22.37	22.41	22.65
EIRP(Watts)	0.1774	0.1991	0.1919	0.1786	0.1799	0.1977	0.1726	0.1742	0.1841

LTE Band 5 (GT - LC = 1.00 dB) QPSK									
Bandwidth	1.4M			3M			5M		
Channel	20407	20525	20643	20415	20525	20635	20425	20525	20625
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency	824.7	836.5	848.3	825.5	836.5	847.5	826.5	836.5	846.5
(MHz)									
Conducted Power (dBm)	23.43	23.39	23.34	23.41	23.22	23.10	23.28	23.42	23.25
Conducted Power (Watts)	0.2203	0.2183	0.2158	0.2193	0.2099	0.2042	0.2128	0.2198	0.2113
ERP(dBm)	22.28	22.24	22.19	22.26	22.07	21.95	22.13	22.27	22.10
ERP(Watts)	0.1690	0.1675	0.1656	0.1683	0.1611	0.1567	0.1633	0.1687	0.1622

LTE Band 5 (GT - LC = 1.00 dB) QPSK			
Bandwidth	10M		
Channel	20450	20525	20600
	(Low)	(Mid)	(High)
Frequency	829	836.5	844
(MHz)			
Conducted Power (dBm)	23.47	23.27	23.25
Conducted Power (Watts)	0.2223	0.2123	0.2113
ERP(dBm)	22.32	22.12	22.10
ERP(Watts)	0.1706	0.1629	0.1622

LTE Band 5 (GT - LC = 1.00 dB) 16QAM									
Bandwidth	1.4M			3M			5M		
Channel	20407	20525	20643	20415	20525	20635	20425	20525	20625
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency	824.7	836.5	848.3	825.5	836.5	847.5	826.5	836.5	846.5
(MHz)									
Conducted Power (dBm)	22.49	22.28	22.58	22.24	22.08	22.25	22.15	22.08	21.85
Conducted Power (Watts)	0.1774	0.1690	0.1811	0.1675	0.1614	0.1679	0.1641	0.1614	0.1531
ERP(dBm)	21.34	21.13	21.43	21.09	20.93	21.10	21.00	20.93	20.70
ERP(Watts)	0.1361	0.1297	0.1390	0.1285	0.1239	0.1288	0.1259	0.1239	0.1175

LTE Band 5 (GT - LC = 1.00 dB) 16QAM			
Bandwidth	10M		
Channel	20450	20525	20600
	(Low)	(Mid)	(High)
Frequency	829	836.5	844
(MHz)			
Conducted Power (dBm)	22.50	22.03	22.15
Conducted Power (Watts)	0.1778	0.1596	0.1641
ERP(dBm)	21.35	20.88	21.00
ERP(Watts)	0.1365	0.1225	0.1259

LTE Band 12 (GT - LC = -1.50 dB) QPSK									
Bandwidth	1.4M			3M			5M		
Channel	23017	23095	23173	23025	23095	23165	23035	23095	23155
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency	699.7	707.5	715.3	700.5	707.5	714.5	701.5	707.5	713.5
(MHz)									
Conducted Power (dBm)	23.31	23.39	23.61	23.21	23.13	23.57	23.52	23.27	23.19
Conducted Power (Watts)	0.2143	0.2183	0.2296	0.2094	0.2056	0.2275	0.2249	0.2123	0.2084
ERP(dBm)	19.66	19.74	19.96	19.56	19.48	19.92	19.87	19.62	19.54
ERP(Watts)	0.0925	0.0942	0.0991	0.0904	0.0887	0.0982	0.0971	0.0916	0.0899

LTE Band 12 (GT - LC = -1.50 dB) QPSK			
Bandwidth	10M		
Channel	23060	23095	23130
	(Low)	(Mid)	(High)
Frequency	704	707.5	711
(MHz)			
Conducted Power (dBm)	23.42	23.38	23.63
Conducted Power (Watts)	0.2198	0.2178	0.2307
ERP(dBm)	19.77	19.73	19.98
ERP(Watts)	0.0948	0.0940	0.0995



LTE Band 12 (GT - LC = -1.50 dB) 16QAM									
Bandwidth	1.4M			3M			5M		
Channel	23017	23095	23173	23025	23095	23165	23035	23095	23155
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency (MHz)	699.7	707.5	715.3	700.5	707.5	714.5	701.5	707.5	713.5
Conducted Power (dBm)	22.24	22.15	22.44	22.35	22.17	22.37	22.10	21.84	22.65
Conducted Power (Watts)	0.1675	0.1641	0.1754	0.1718	0.1648	0.1726	0.1622	0.1528	0.1841
ERP(dBm)	18.59	18.50	18.79	18.70	18.52	18.72	18.45	18.19	19.00
ERP(Watts)	0.0723	0.0708	0.0757	0.0741	0.0711	0.0745	0.0700	0.0659	0.0794

LTE Band 12 (GT - LC = -1.50 dB) 16QAM			
Bandwidth	10M		
Channel	23060	23095	23130
	(Low)	(Mid)	(High)
Frequency (MHz)	704	707.5	711
Conducted Power (dBm)	21.95	22.46	22.02
Conducted Power (Watts)	0.1567	0.1762	0.1592
ERP(dBm)	18.30	18.81	18.37
ERP(Watts)	0.0676	0.0760	0.0687



LTE Band 13 (GT - LC = -1.50 dB) QPSK						
Bandwidth	5M			10M		
Channel	23205	23230	23255	23230		
	(Low)	(Mid)	(High)	-	(Mid)	-
Frequency	779.5	782	784.5	-	782	-
(MHz)						
Conducted Power (dBm)	23.72	23.53	23.70	-	23.73	-
Conducted Power (Watts)	0.2355	0.2254	0.2344	-	0.2360	-
ERP(dBm)	20.07	19.88	20.05	-	20.08	-
ERP(Watts)	0.1016	0.0973	0.1012	-	0.1019	-

LTE Band 13 (GT - LC = -1.50 dB) 16QAM						
Bandwidth	5M			10M		
Channel	23205	23230	23255	23230		
	(Low)	(Mid)	(High)	-	(Mid)	-
Frequency	779.5	782	784.5	-	782	-
(MHz)						
Conducted Power (dBm)	22.66	22.36	22.82	-	22.51	-
Conducted Power (Watts)	0.1845	0.1722	0.1914	-	0.1782	-
ERP(dBm)	19.01	18.71	19.17	-	18.86	-
ERP(Watts)	0.0796	0.0743	0.0826	-	0.0769	-



LTE Band 17 (GT - LC = -1.50 dB) QPSK						
Bandwidth	5M			10M		
Channel	23755	23790	23825	23780	23790	23800
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency	706.5	710	713.5	709	710	711
(MHz)						
Conducted Power (dBm)	23.24	23.46	23.50	23.62	23.27	23.18
Conducted Power (Watts)	0.2109	0.2218	0.2239	0.2301	0.2123	0.2080
ERP(dBm)	19.59	19.81	19.85	19.97	19.62	19.53
ERP(Watts)	0.0910	0.0957	0.0966	0.0993	0.0916	0.0897

LTE Band 17 (GT - LC = -1.50 dB) 16QAM						
Bandwidth	5M			10M		
Channel	23755	23790	23825	23780	23790	23800
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency	706.5	710	713.5	709	710	711
(MHz)						
Conducted Power (dBm)	22.23	22.20	22.34	22.46	22.34	22.38
Conducted Power (Watts)	0.1671	0.1660	0.1714	0.1762	0.1714	0.1730
ERP(dBm)	18.58	18.55	18.69	18.81	18.69	18.73
ERP(Watts)	0.0721	0.0716	0.0740	0.0760	0.0740	0.0746



LTE Band 25 (GT - LC = 1.00 dB) QPSK									
Bandwidth	1.4M			3M			5M		
Channel	26407	26340	26683	26055	26340	26675	26065	26340	26665
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency	1850.7	1880	1914.3	1851.5	1880	1913.5	1852.5	1880	1912.5
(MHz)									
Conducted Power (dBm)	22.82	22.71	22.52	22.76	22.68	21.93	22.76	22.64	21.93
Conducted Power (Watts)	0.1914	0.1866	0.1786	0.1888	0.1854	0.1560	0.1888	0.1837	0.1560
EIRP(dBm)	23.82	23.71	23.52	23.76	23.68	22.93	23.76	23.64	22.93
EIRP(Watts)	0.2410	0.2350	0.2249	0.2377	0.2333	0.1963	0.2377	0.2312	0.1963

LTE Band 25 (GT - LC = 1.00 dB) QPSK									
Bandwidth	10M			15M			20M		
Channel	26090	26340	26640	26115	26340	26615	26140	26340	26590
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency	1855	1880	1910	1857.5	1880	1907.5	1860	1880	1905
(MHz)									
Conducted Power (dBm)	22.89	22.45	22.33	22.81	22.54	22.78	22.91	22.63	22.67
Conducted Power (Watts)	0.1945	0.1758	0.1710	0.1910	0.1795	0.1897	0.1954	0.1832	0.1849
EIRP(dBm)	23.89	23.45	23.33	23.81	23.54	23.78	23.91	23.63	23.67
EIRP(Watts)	0.2449	0.2213	0.2153	0.2404	0.2259	0.2388	0.2460	0.2307	0.2328



LTE Band 25 (GT - LC = 1.00 dB) 16QAM									
Bandwidth	1.4M			3M			5M		
Channel	26407	26340	26683	26055	26340	26675	26065	26340	26665
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency	1850.7	1880	1914.3	1851.5	1880	1913.5	1852.5	1880	1912.5
(MHz)									
Conducted Power (dBm)	21.91	21.55	21.52	21.73	21.40	21.66	21.83	21.36	21.21
Conducted Power (Watts)	0.1552	0.1429	0.1419	0.1489	0.1380	0.1466	0.1524	0.1368	0.1321
EIRP(dBm)	22.91	22.55	22.52	22.73	22.40	22.66	22.83	22.36	22.21
EIRP(Watts)	0.1954	0.1799	0.1786	0.1875	0.1738	0.1845	0.1919	0.1722	0.1663

LTE Band 25 (GT - LC = 1.00 dB) 16QAM									
Bandwidth	10M			15M			20M		
Channel	26090	26340	26640	26115	26340	26615	26140	26340	26590
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency	1855	1880	1910	1857.5	1880	1907.5	1860	1880	1905
(MHz)									
Conducted Power (dBm)	21.73	21.77	21.46	21.68	21.60	21.34	21.53	21.42	21.38
Conducted Power (Watts)	0.1489	0.1503	0.1400	0.1472	0.1445	0.1361	0.1422	0.1387	0.1374
EIRP(dBm)	22.73	22.77	22.46	22.68	22.60	22.34	22.53	22.42	22.38
EIRP(Watts)	0.1875	0.1892	0.1762	0.1854	0.1820	0.1714	0.1791	0.1746	0.1730



LTE Band 26 (GT - LC = 1.00 dB) QPSK									
Bandwidth	1.4M			3M			5M		
Channel	26797	26915	27033	26805	26915	27025	26815	26915	27015
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency	824.7	836.5	848.3	825.5	836.5	847.5	826.5	836.5	846.5
(MHz)									
Conducted Power (dBm)	23.34	23.47	22.84	23.30	23.32	23.12	23.26	23.31	23.12
Conducted Power (Watts)	0.2158	0.2223	0.1923	0.2138	0.2148	0.2051	0.2118	0.2143	0.2051
ERP(dBm)	22.19	22.32	21.69	22.15	22.17	21.97	22.11	22.16	21.97
ERP(Watts)	0.1656	0.1706	0.1476	0.1641	0.1648	0.1574	0.1626	0.1644	0.1574

LTE Band 26 (GT - LC = 1.00 dB) QPSK							
Bandwidth	10M			15M			15M
Channel	26840	26915	26990	26865	26915	26965	26765
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)
Frequency	829	836.5	844	831.5	836.5	841.5	821.5
(MHz)							
Conducted Power (dBm)	23.23	23.38	23.21	23.19	23.48	23.15	23.19
Conducted Power (Watts)	0.2104	0.2178	0.2094	0.2084	0.2228	0.2065	0.2084
ERP(dBm)	22.08	22.23	22.06	22.04	22.33	22.00	22.04
ERP(Watts)	0.1614	0.1671	0.1607	0.1600	0.1710	0.1585	0.1600

LTE Band 26 (GT - LC = 1.00 dB) 16QAM									
Bandwidth	1.4M			3M			5M		
Channel	26797	26915	27033	26805	26915	27025	26815	26915	27015
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency	824.7	836.5	848.3	825.5	836.5	847.5	826.5	836.5	846.5
(MHz)									
Conducted Power (dBm)	22.61	22.27	21.94	22.21	22.26	22.13	22.17	22.12	22.12
Conducted Power (Watts)	0.1824	0.1687	0.1563	0.1663	0.1683	0.1633	0.1648	0.1629	0.1629
ERP(dBm)	21.46	21.12	20.79	21.06	21.11	20.98	21.02	20.97	20.97
ERP(Watts)	0.1400	0.1294	0.1199	0.1276	0.1291	0.1253	0.1265	0.1250	0.1250

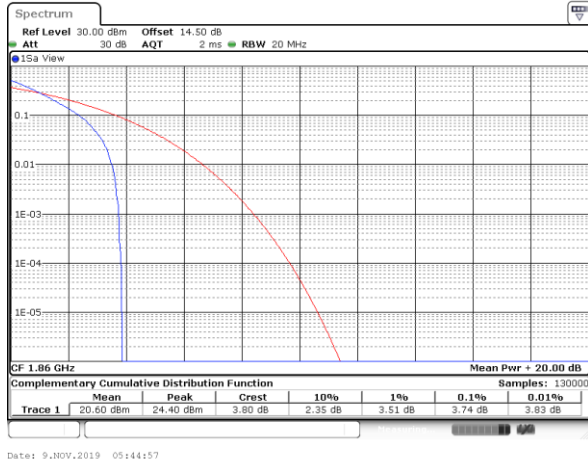
LTE Band 26 (GT - LC = 1.00 dB) 16QAM							
Bandwidth	10M			15M			15M
Channel	26840	26915	26990	26865	26915	26965	26765
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)
Frequency	829	836.5	844	831.5	836.5	841.5	821.5
(MHz)							
Conducted Power (dBm)	22.31	22.33	22.39	22.12	22.27	21.79	22.12
Conducted Power (Watts)	0.1702	0.1710	0.1734	0.1629	0.1687	0.1510	0.1629
ERP(dBm)	21.16	21.18	21.24	20.97	21.12	20.64	20.97
ERP(Watts)	0.1306	0.1312	0.1330	0.1250	0.1294	0.1159	0.1250



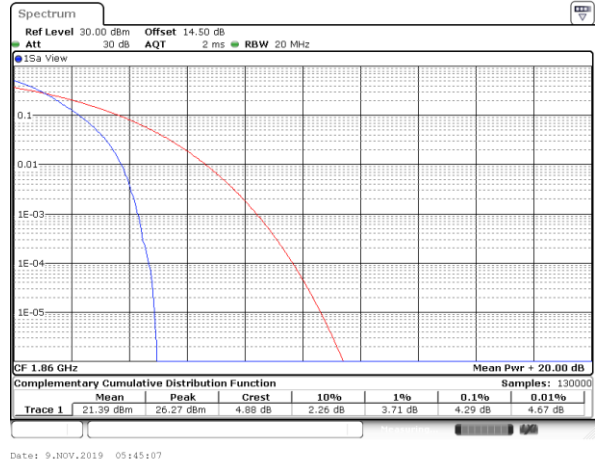
LTE Band 2

Peak-to-Average Ratio

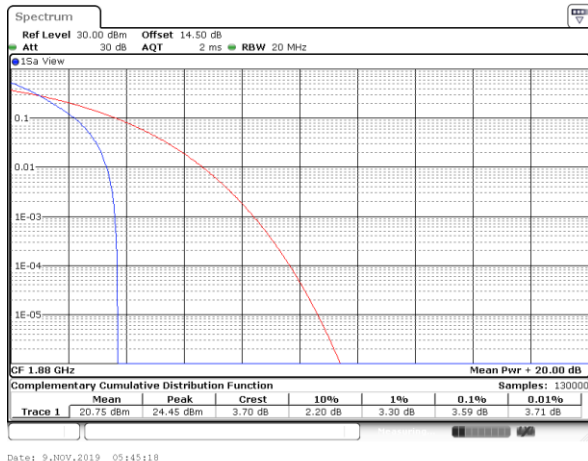
Mode	LTE Band 2 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	3.74	4.29	4.67	5.25	PASS
Middle CH	3.59	4.29	4.72	5.25	
Highest CH	3.39	4.35	4.46	5.33	

LTE Band 2 / 20MHz / QPSK
Lowest Channel / 1RB


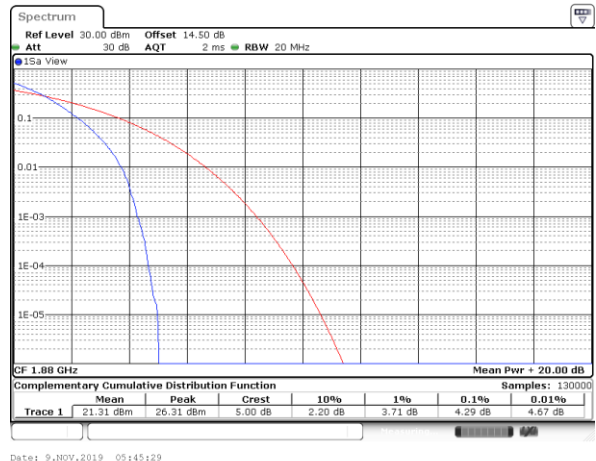
Date: 9,NOV,2019 05:44:57

Lowest Channel / Full RB


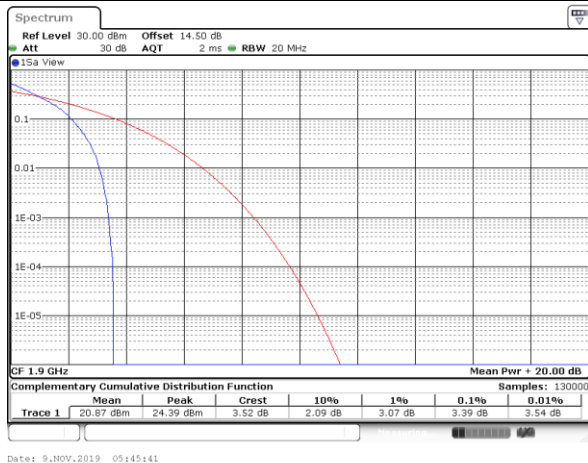
Date: 9,NOV,2019 05:45:07

Middle Channel / 1RB


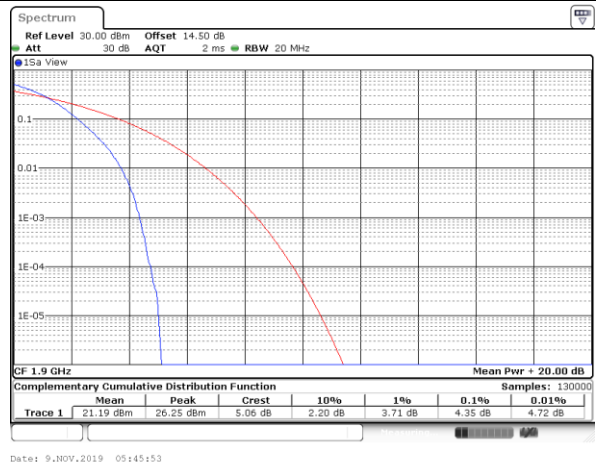
Date: 9,NOV,2019 05:45:16

Middle Channel / Full RB


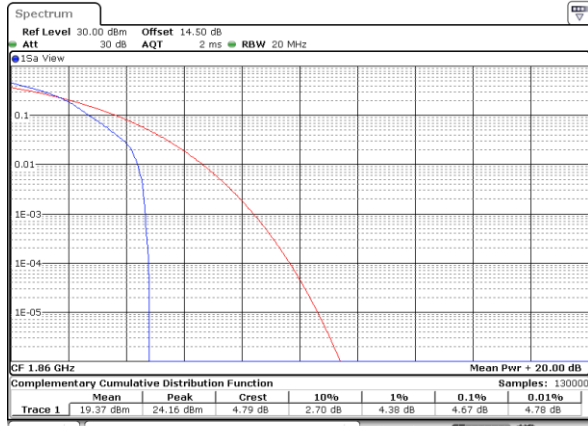
Date: 9,NOV,2019 05:45:29

Highest Channel / 1RB


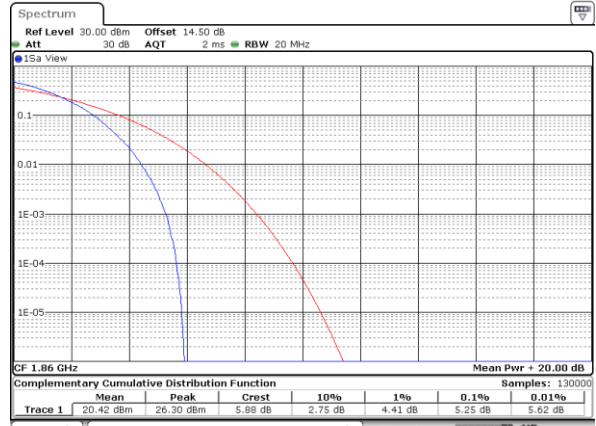
Date: 9,NOV,2019 05:45:41

Highest Channel / Full RB


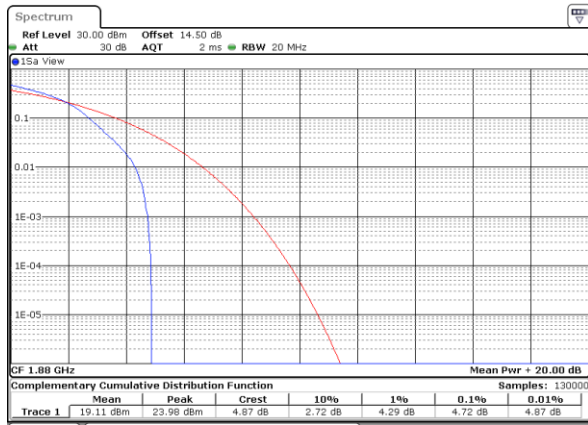
Date: 9,NOV,2019 05:45:53

LTE Band 2 / 20MHz / 16QAM
Lowest Channel / 1RB


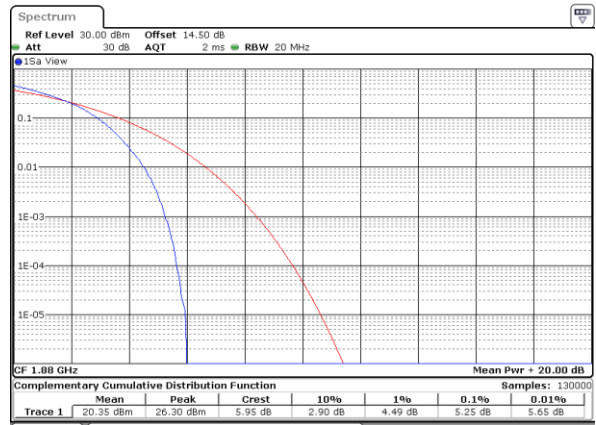
Date: 9,NOV,2019 05:43:56

Lowest Channel / Full RB


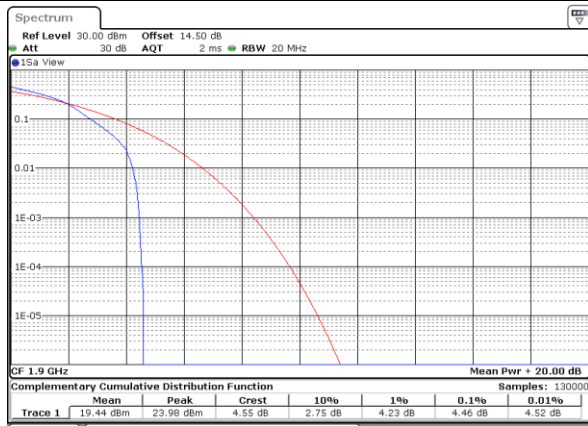
Date: 9,NOV,2019 05:44:06

Middle Channel / 1RB


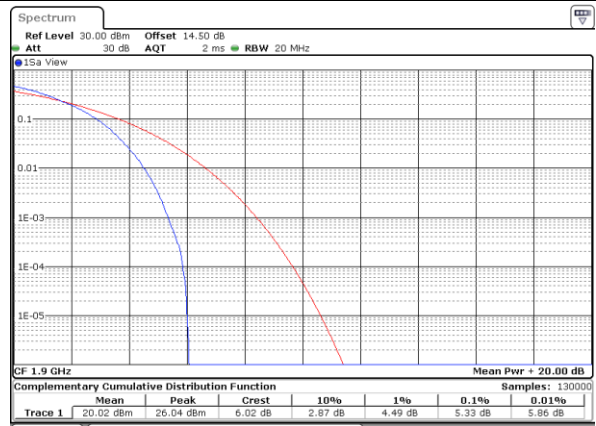
Date: 9,NOV,2019 05:44:15

Middle Channel / Full RB


Date: 9,NOV,2019 05:44:25

Highest Channel / 1RB


Date: 9,NOV,2019 05:44:35

Highest Channel / Full RB


Date: 9,NOV,2019 05:44:47

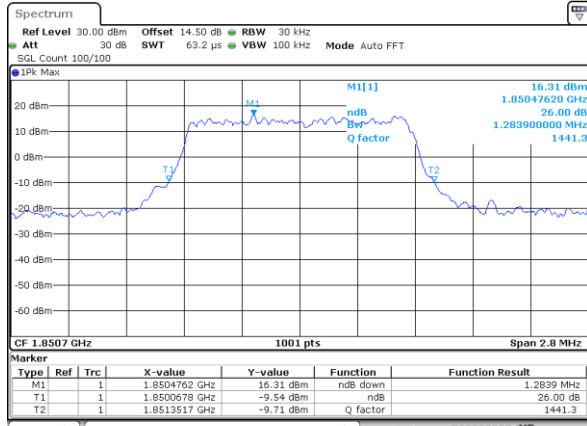
**26dB Bandwidth**

Mode	LTE Band 2 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	1.28	1.29	3.05	2.98	5.04	4.95	9.79	9.75	14.36	14.36	20.18	20.06
Middle CH	1.27	1.28	3.05	3.01	4.93	4.92	9.87	9.73	14.60	14.30	20.26	20.18
Highest CH	1.33	1.28	3.04	2.95	5.01	4.98	9.71	9.97	14.30	14.18	20.10	20.22



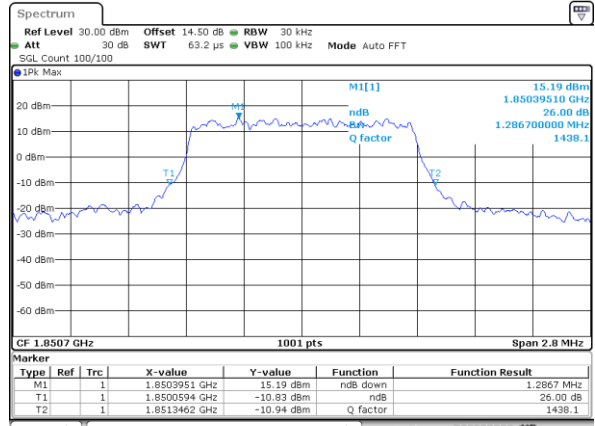
LTE Band 2

Lowest Channel / 1.4MHz / QPSK



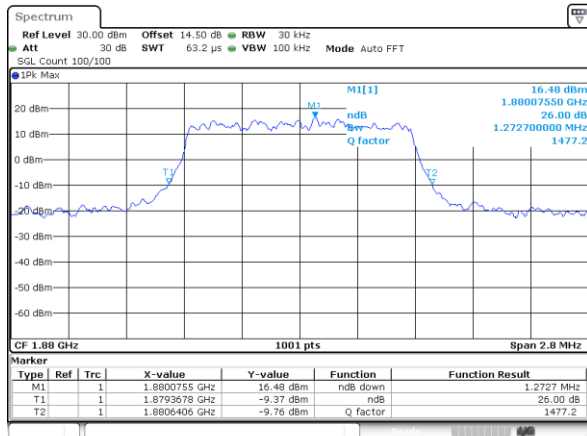
Date: 9.NOV.2019 02:18:38

Lowest Channel / 1.4MHz / 16QAM



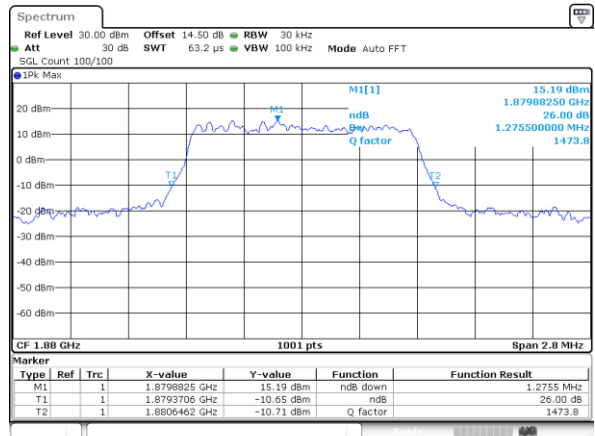
Date: 9.NOV.2019 02:18:48

Middle Channel / 1.4MHz / QPSK



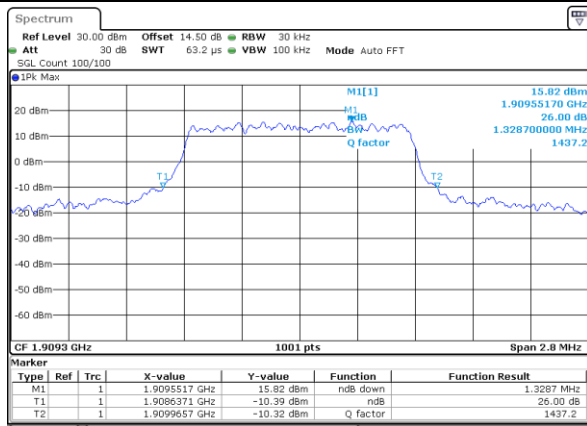
Date: 9.NOV.2019 02:25:47

Middle Channel / 1.4MHz / 16QAM



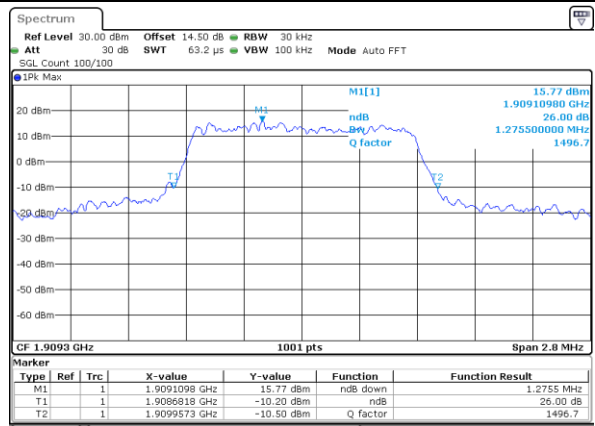
Date: 9.NOV.2019 02:25:57

Highest Channel / 1.4MHz / QPSK



Date: 9.NOV.2019 02:28:20

Highest Channel / 1.4MHz / 16QAM

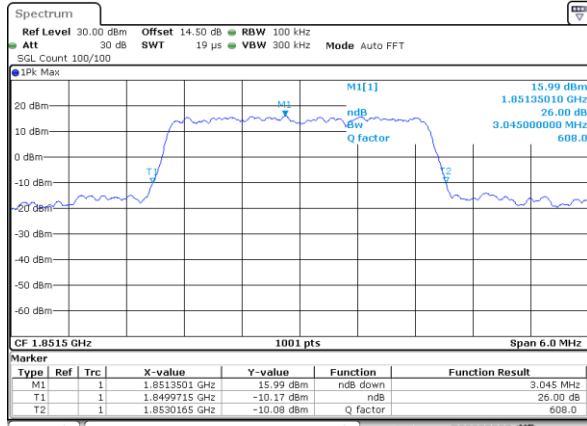


Date: 9.NOV.2019 02:28:30



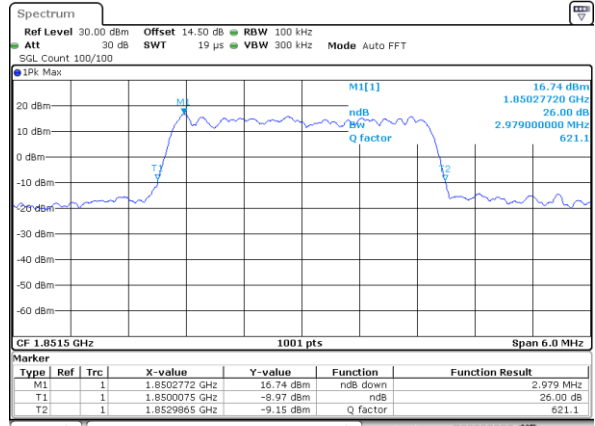
LTE Band 2

Lowest Channel / 3MHz / QPSK



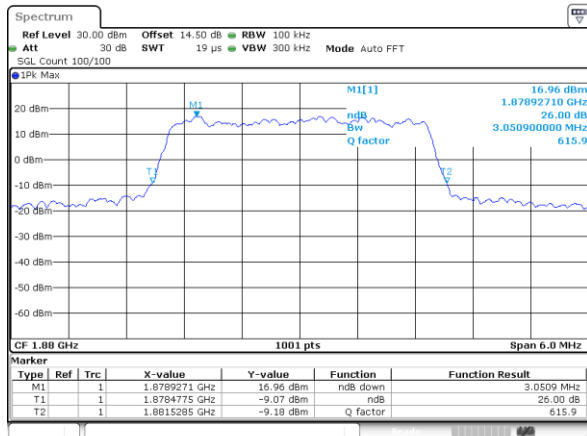
Date: 9,NOV,2019 02:35:31

Lowest Channel / 3MHz / 16QAM



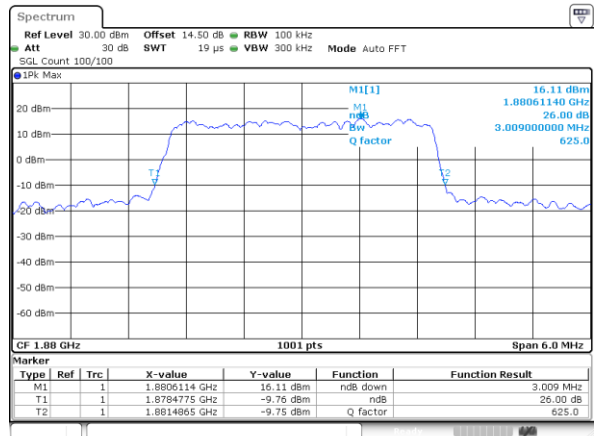
Date: 9,NOV,2019 02:35:41

Middle Channel / 3MHz / QPSK



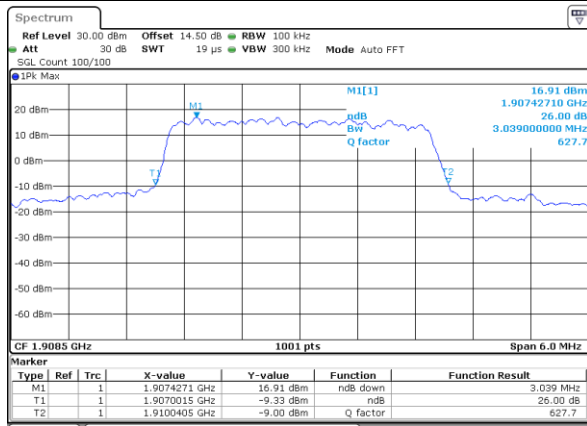
Date: 9,NOV,2019 02:42:41

Middle Channel / 3MHz / 16QAM



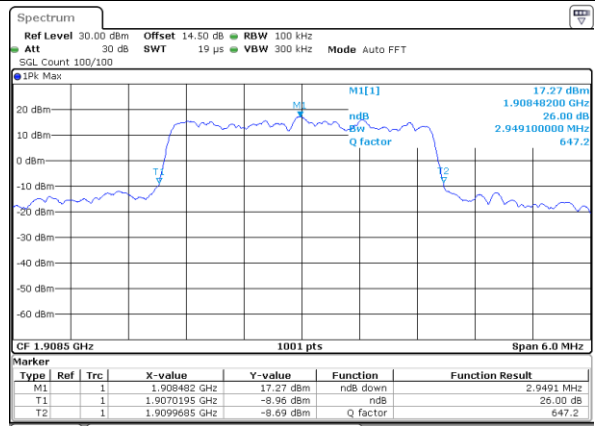
Date: 9,NOV,2019 02:42:51

Highest Channel / 3MHz / QPSK



Date: 9,NOV,2019 02:45:13

Highest Channel / 3MHz / 16QAM

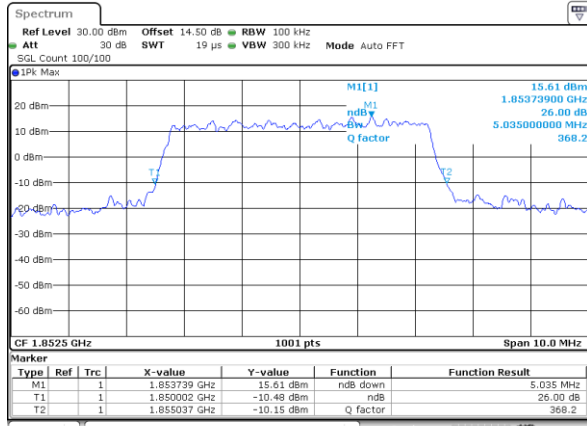


Date: 9,NOV,2019 02:45:23



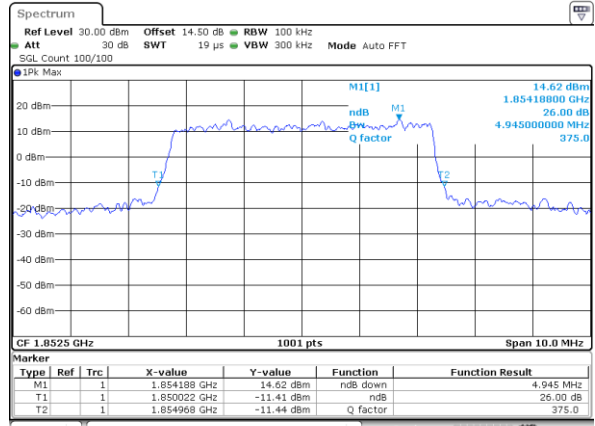
LTE Band 2

Lowest Channel / 5MHz / QPSK



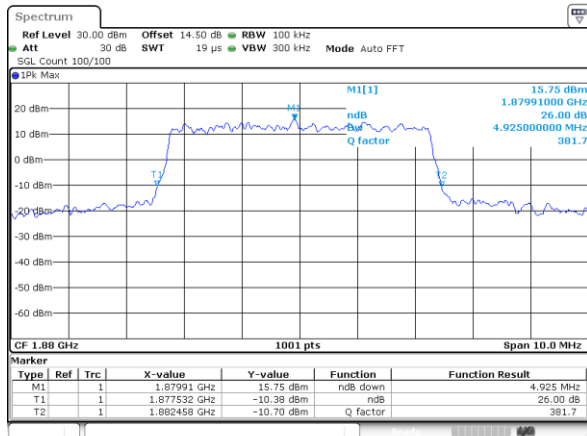
Date: 9.NOV.2019 03:08:34

Lowest Channel / 5MHz / 16QAM



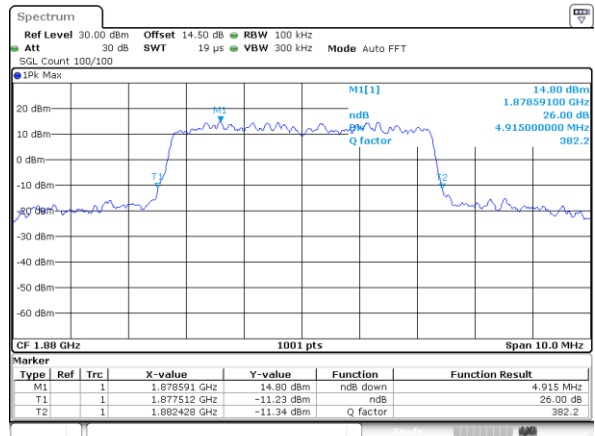
Date: 9.NOV.2019 03:08:44

Middle Channel / 5MHz / QPSK



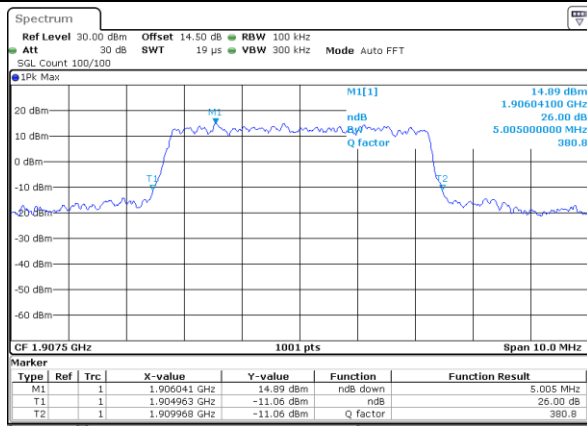
Date: 9.NOV.2019 03:10:44

Middle Channel / 5MHz / 16QAM



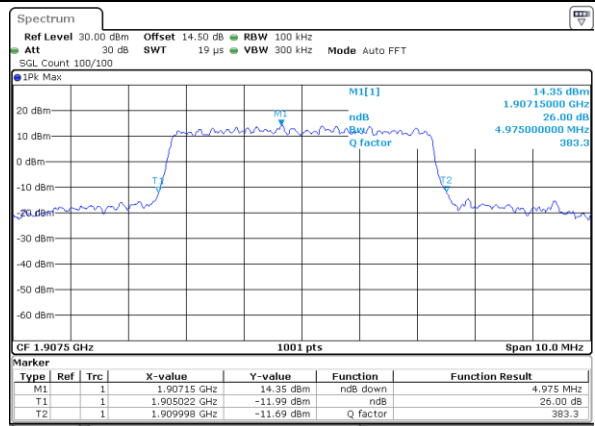
Date: 9.NOV.2019 03:10:54

Highest Channel / 5MHz / QPSK



Date: 9.NOV.2019 03:18:17

Highest Channel / 5MHz / 16QAM

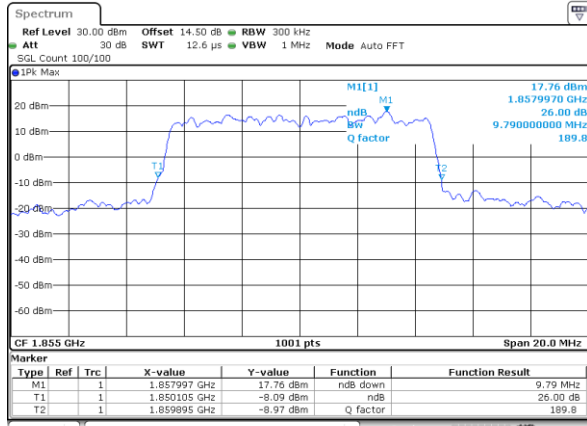


Date: 9.NOV.2019 03:18:27



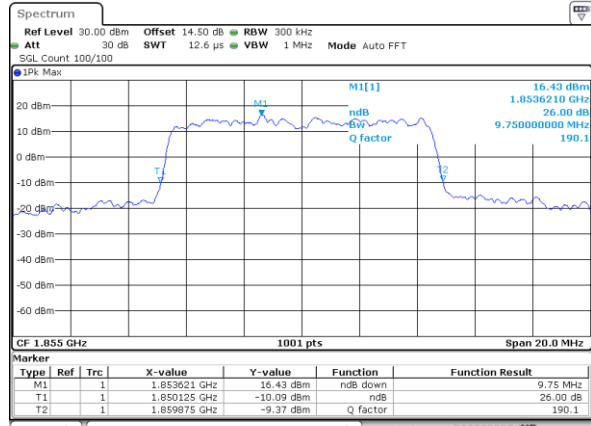
LTE Band 2

Lowest Channel / 10MHz / QPSK



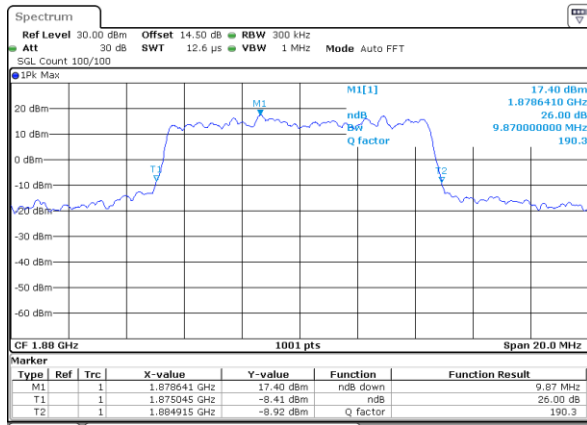
Date: 9,NOV,2019 03:27:10

Lowest Channel / 10MHz / 16QAM



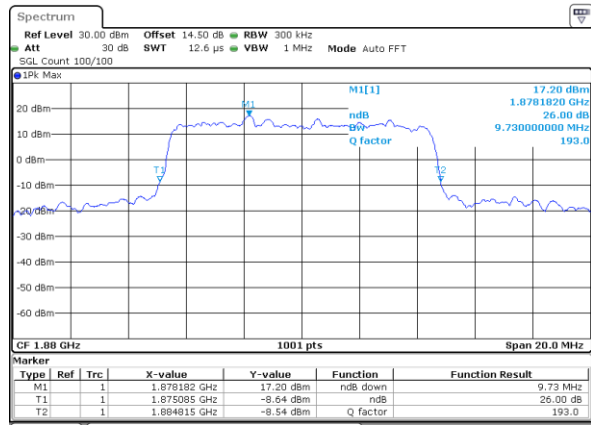
Date: 9,NOV,2019 03:27:20

Middle Channel / 10MHz / QPSK



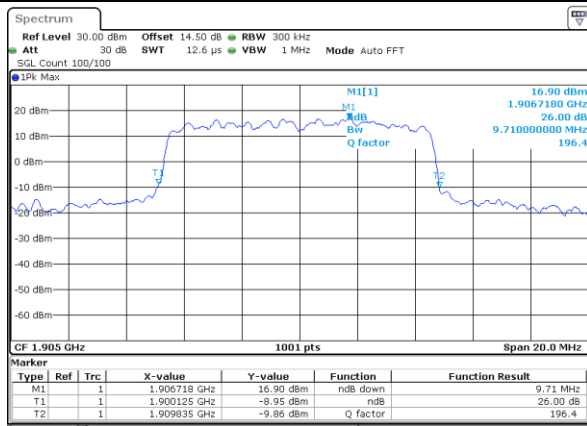
Date: 9,NOV,2019 03:34:22

Middle Channel / 10MHz / 16QAM



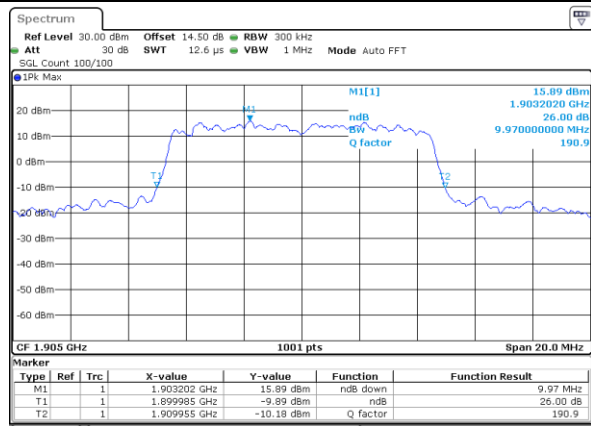
Date: 9,NOV,2019 03:34:32

Highest Channel / 10MHz / QPSK



Date: 9,NOV,2019 03:36:55

Highest Channel / 10MHz / 16QAM

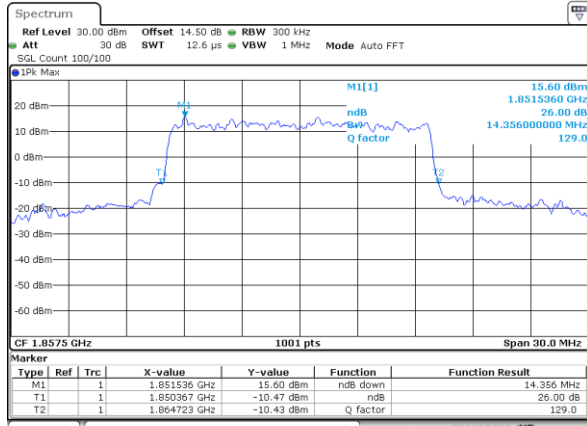


Date: 9,NOV,2019 03:37:05



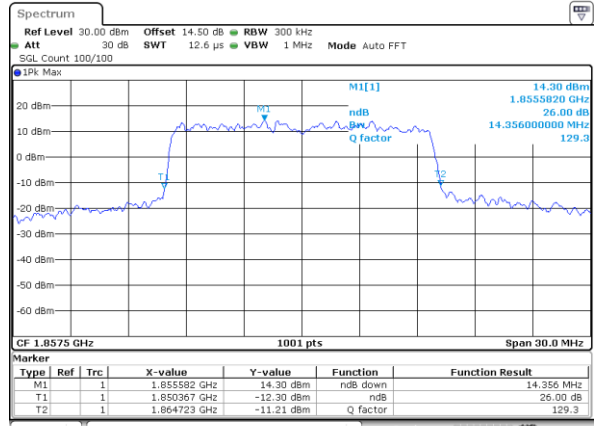
LTE Band 2

Lowest Channel / 15MHz / QPSK



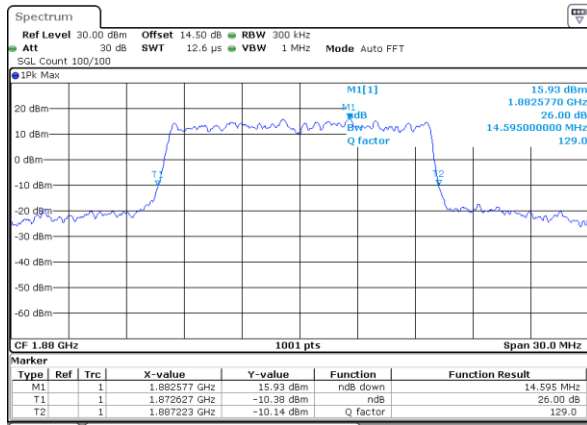
Date: 9.NOV.2019 03:56:34

Lowest Channel / 15MHz / 16QAM



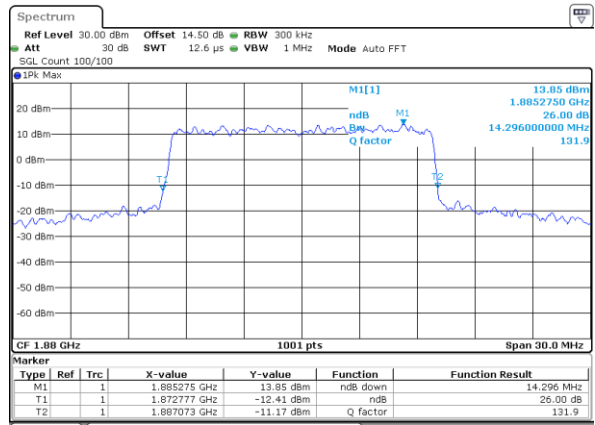
Date: 9.NOV.2019 03:56:44

Middle Channel / 15MHz / QPSK



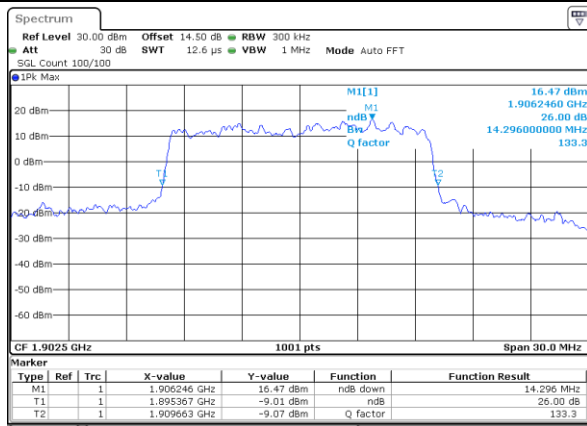
Date: 9.NOV.2019 04:14:42

Middle Channel / 15MHz / 16QAM



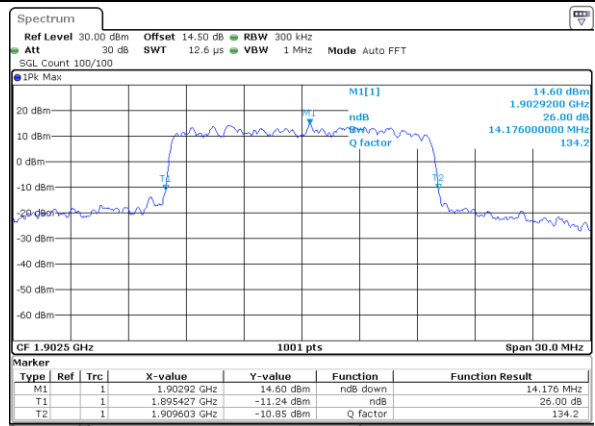
Date: 9.NOV.2019 04:14:52

Highest Channel / 15MHz / QPSK



Date: 9.NOV.2019 04:17:15

Highest Channel / 15MHz / 16QAM

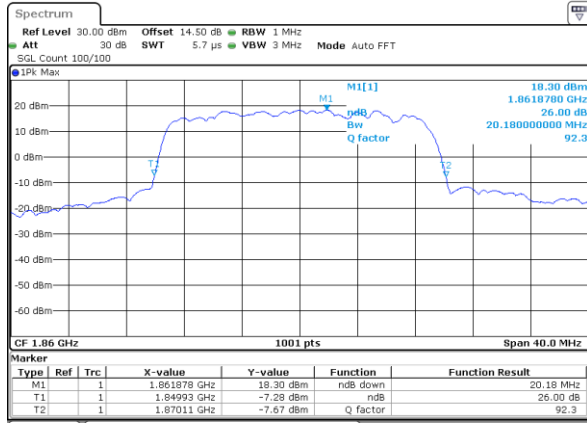


Date: 9.NOV.2019 04:17:25



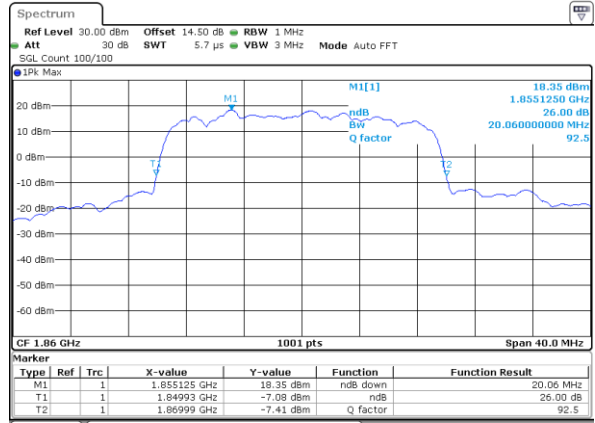
LTE Band 2

Lowest Channel / 20MHz / QPSK



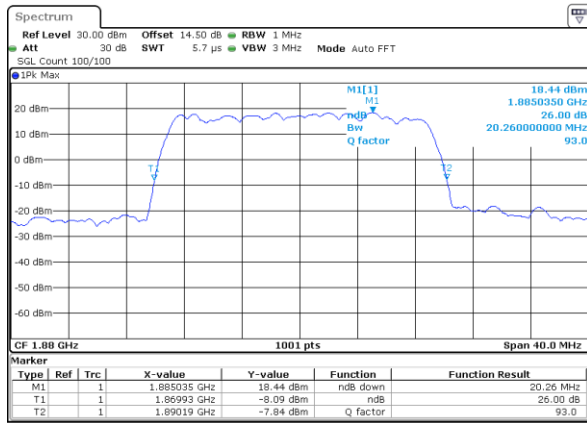
Date: 9,NOV,2019 04:31:14

Lowest Channel / 20MHz / 16QAM



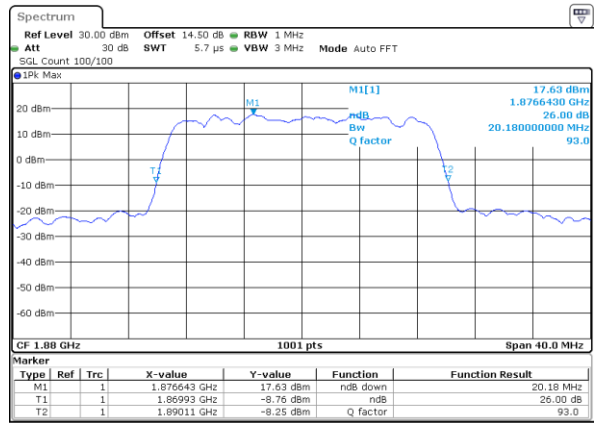
Date: 9,NOV,2019 04:31:24

Middle Channel / 20MHz / QPSK



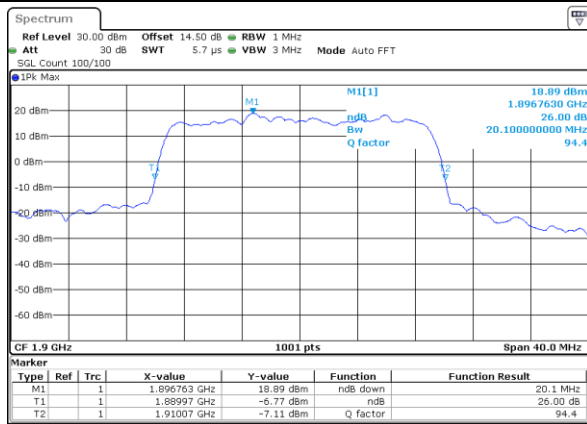
Date: 9,NOV,2019 05:28:24

Middle Channel / 20MHz / 16QAM



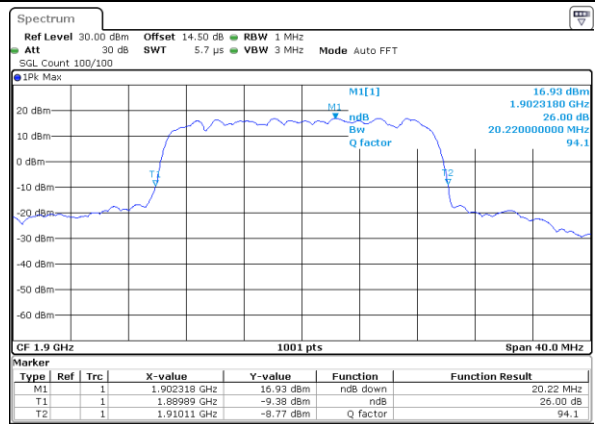
Date: 9,NOV,2019 05:28:34

Highest Channel / 20MHz / QPSK



Date: 9,NOV,2019 05:30:56

Highest Channel / 20MHz / 16QAM



Date: 9,NOV,2019 05:31:06



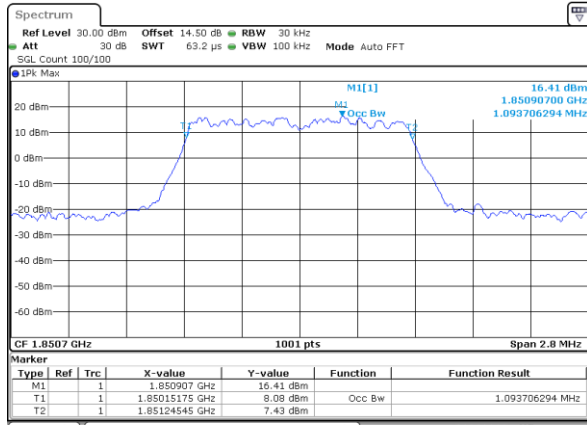
Occupied Bandwidth

Mode	LTE Band 2 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	1.09	1.10	2.72	2.72	4.51	4.50	8.97	8.95	13.52	13.43	18.22	18.34
Middle CH	1.10	1.09	2.70	2.72	4.51	4.49	9.03	9.03	13.43	13.40	18.22	18.38
Highest CH	1.10	1.10	2.73	2.72	4.50	4.50	9.01	8.99	13.46	13.43	18.26	18.38



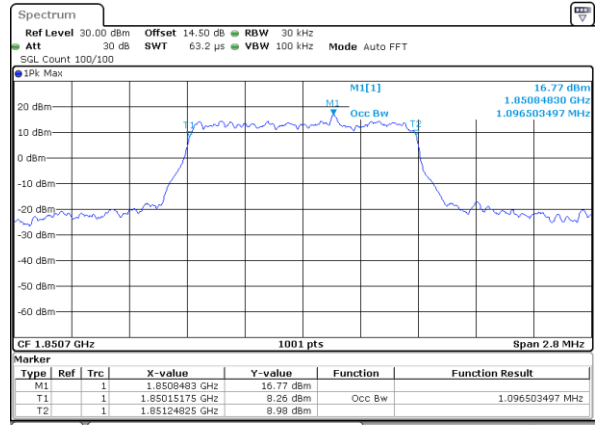
LTE Band 2

Lowest Channel / 1.4MHz / QPSK



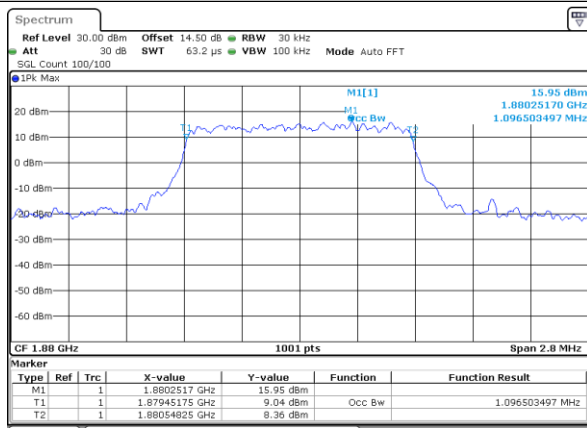
Date: 9.NOV.2019 02:18:18

Lowest Channel / 1.4MHz / 16QAM



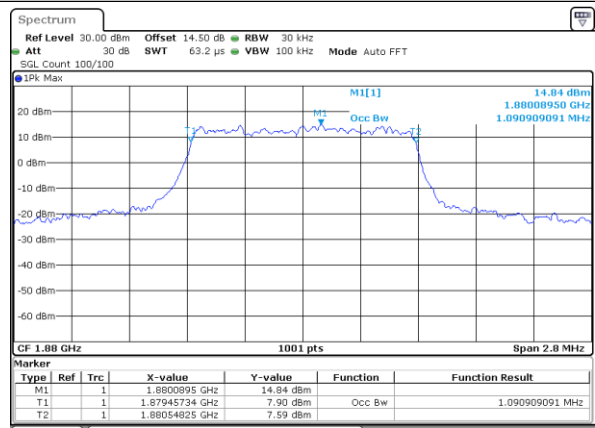
Date: 9.NOV.2019 02:18:28

Middle Channel / 1.4MHz / QPSK



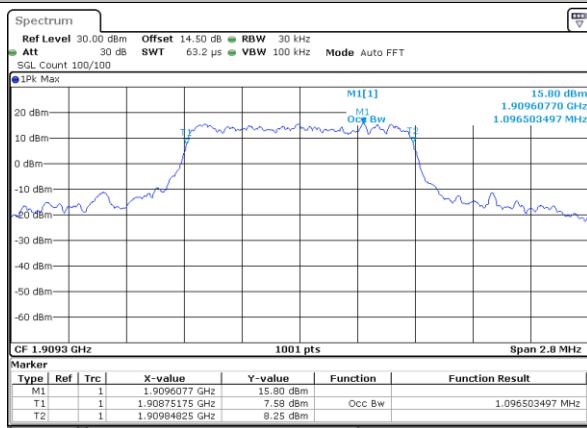
Date: 9.NOV.2019 02:25:27

Middle Channel / 1.4MHz / 16QAM



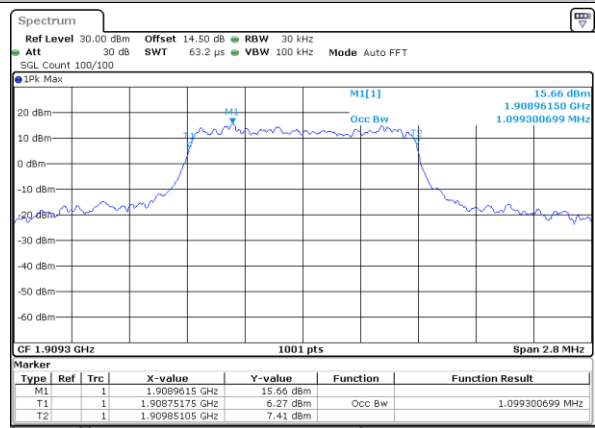
Date: 9.NOV.2019 02:25:37

Highest Channel / 1.4MHz / QPSK



Date: 9.NOV.2019 02:27:59

Highest Channel / 1.4MHz / 16QAM

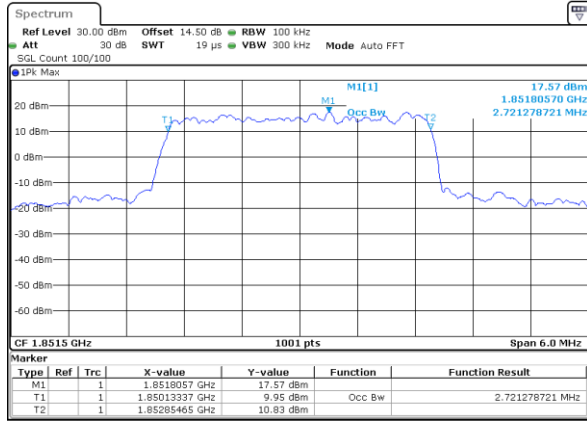


Date: 9.NOV.2019 02:28:10



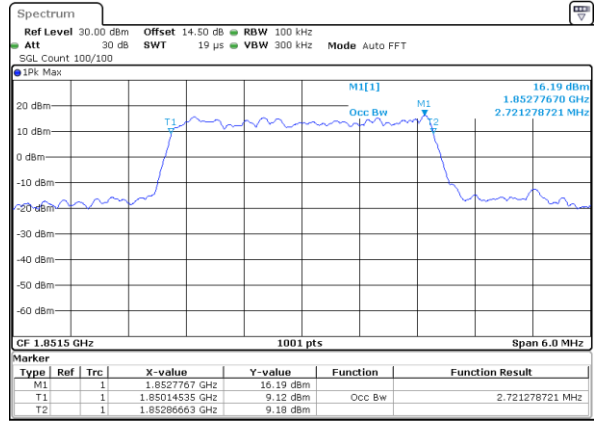
LTE Band 2

Lowest Channel / 3MHz / QPSK



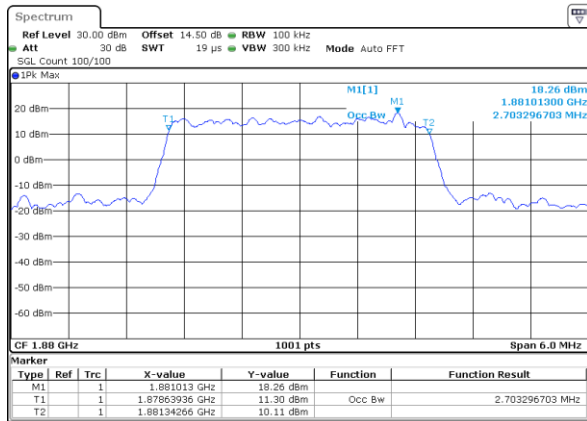
Date: 9.NOV.2019 02:35:10

Lowest Channel / 3MHz / 16QAM



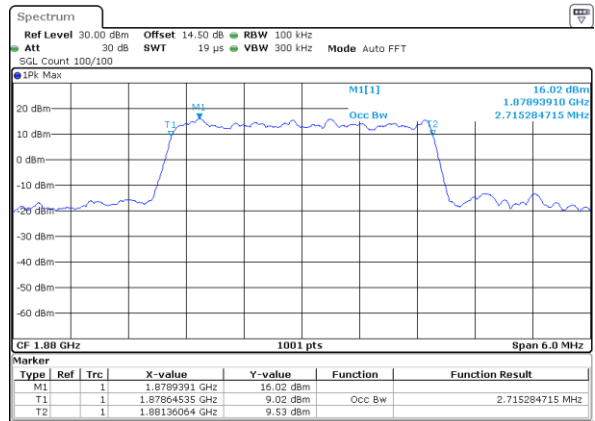
Date: 9.NOV.2019 02:35:21

Middle Channel / 3MHz / QPSK



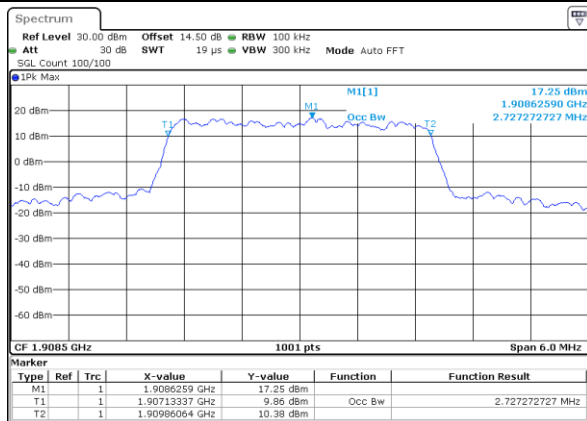
Date: 9.NOV.2019 02:42:21

Middle Channel / 3MHz / 16QAM



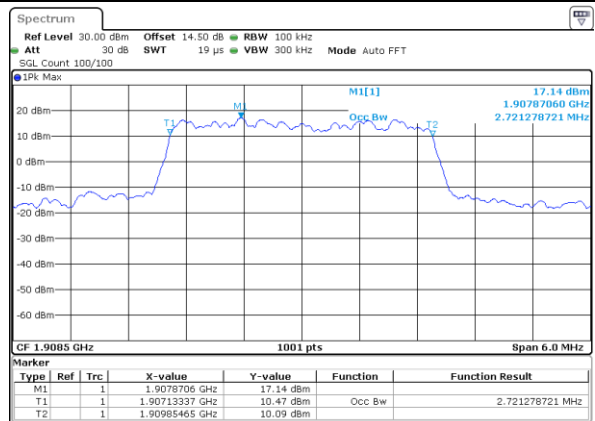
Date: 9.NOV.2019 02:42:31

Highest Channel / 3MHz / QPSK



Date: 9.NOV.2019 02:44:53

Highest Channel / 3MHz / 16QAM

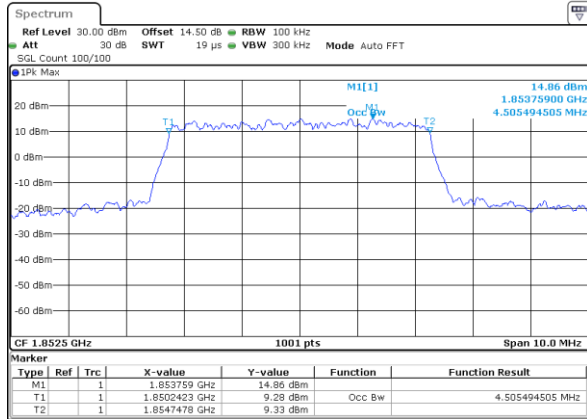


Date: 9.NOV.2019 02:45:03



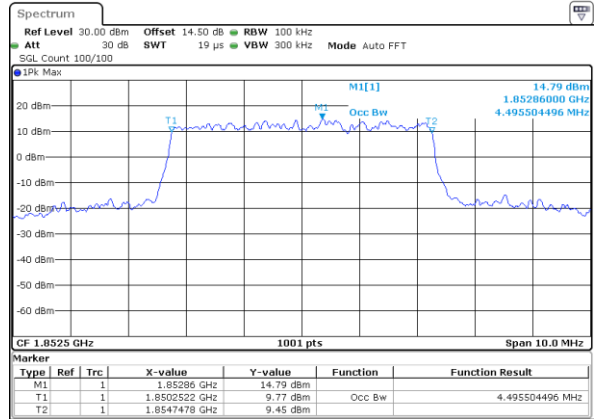
LTE Band 2

Lowest Channel / 5MHz / QPSK



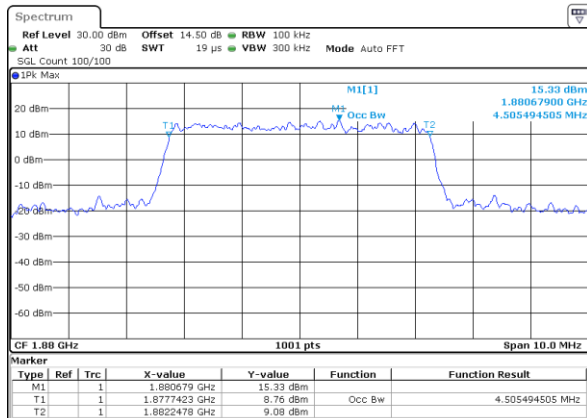
Date: 9.NOV.2019 03:08:14

Lowest Channel / 5MHz / 16QAM



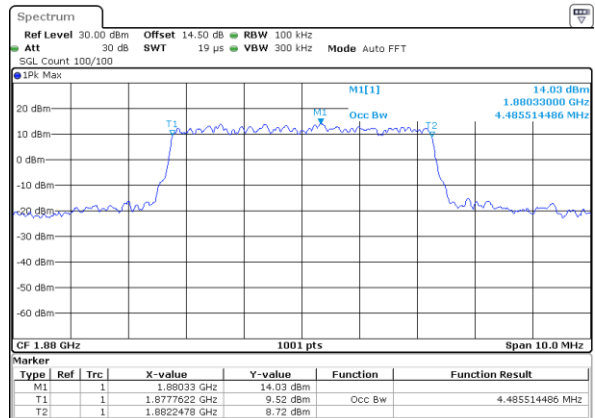
Date: 9.NOV.2019 03:08:24

Middle Channel / 5MHz / QPSK



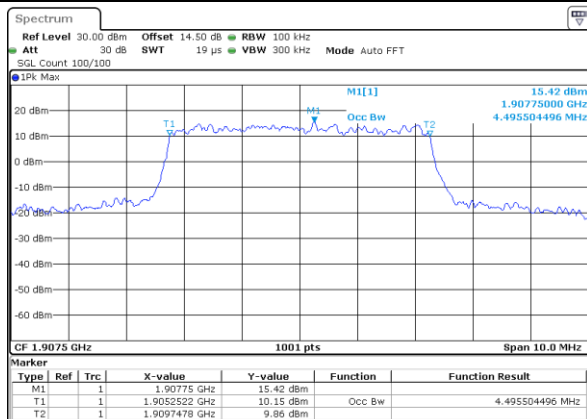
Date: 9.NOV.2019 03:15:24

Middle Channel / 5MHz / 16QAM



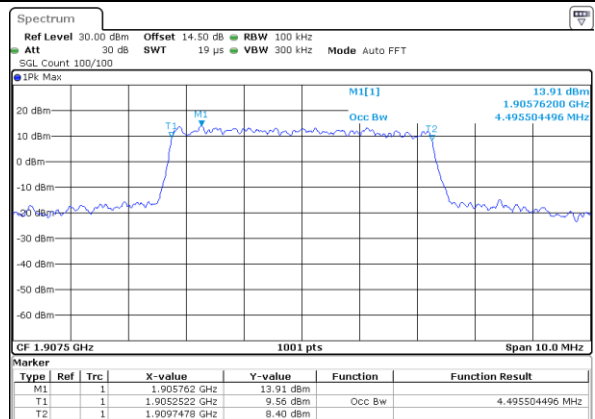
Date: 9.NOV.2019 03:15:34

Highest Channel / 5MHz / QPSK



Date: 9.NOV.2019 03:17:57

Highest Channel / 5MHz / 16QAM

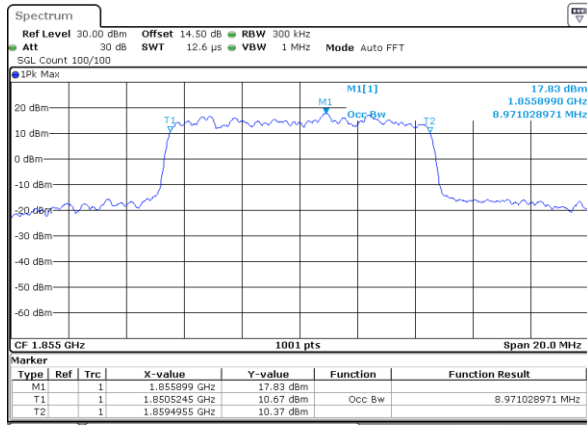


Date: 9.NOV.2019 03:18:07



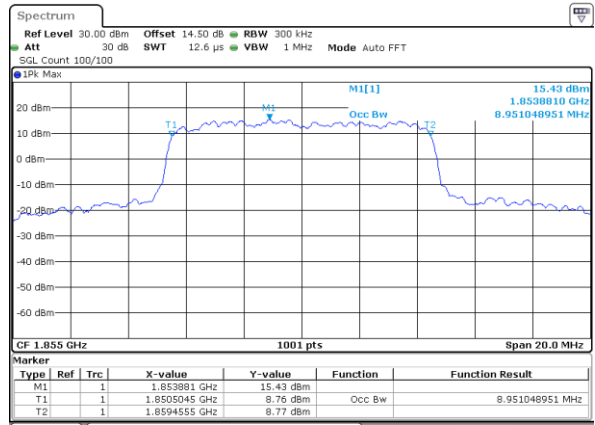
LTE Band 2

Lowest Channel / 10MHz / QPSK



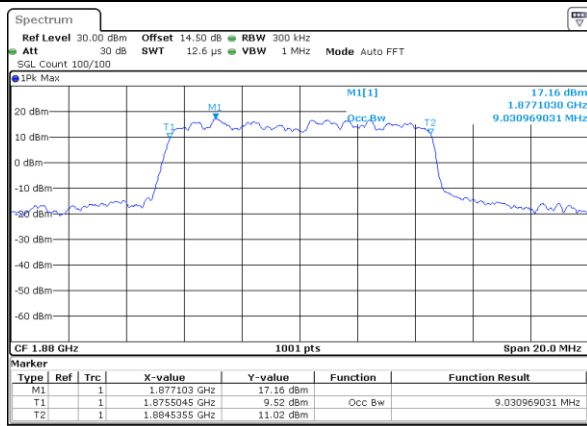
Date: 9,NOV,2019 03:26:49

Lowest Channel / 10MHz / 16QAM



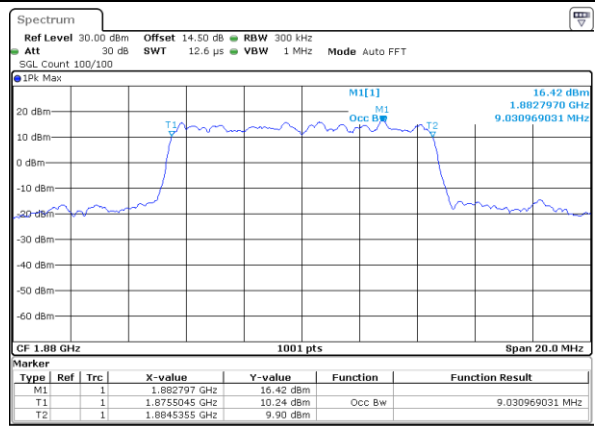
Date: 9,NOV,2019 03:27:00

Middle Channel / 10MHz / QPSK



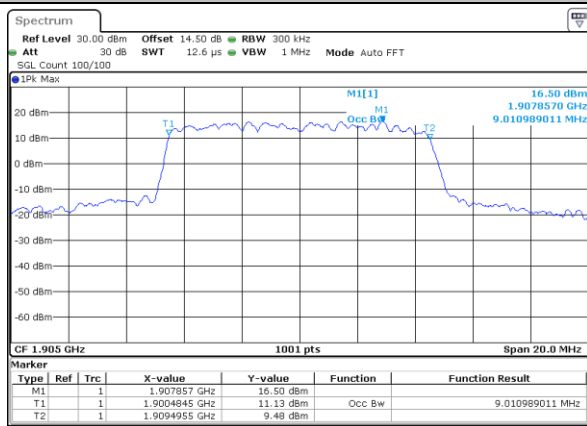
Date: 9,NOV,2019 03:34:02

Middle Channel / 10MHz / 16QAM



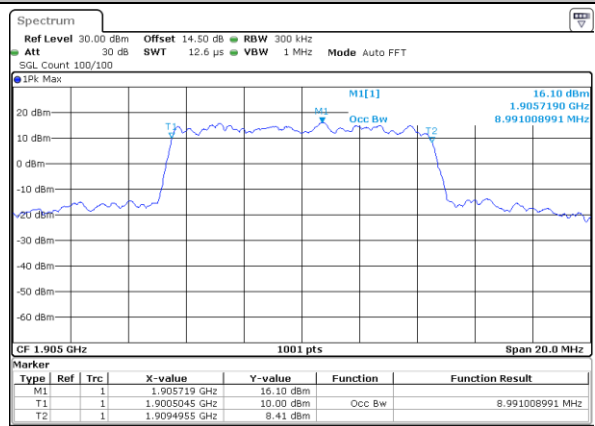
Date: 9,NOV,2019 03:34:12

Highest Channel / 10MHz / QPSK

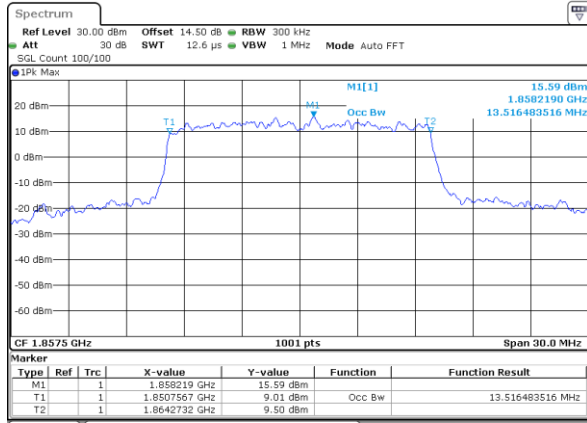


Date: 9,NOV,2019 03:36:35

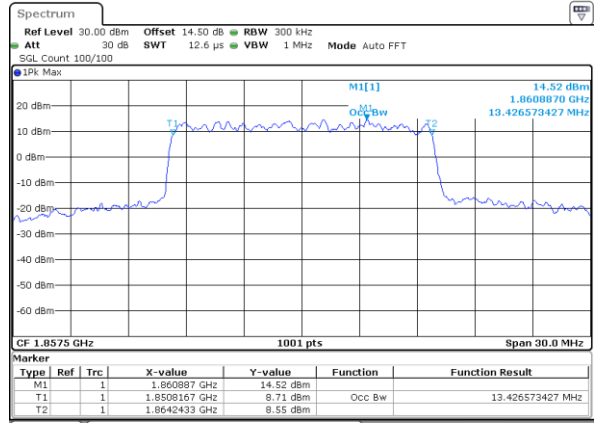
Highest Channel / 10MHz / 16QAM



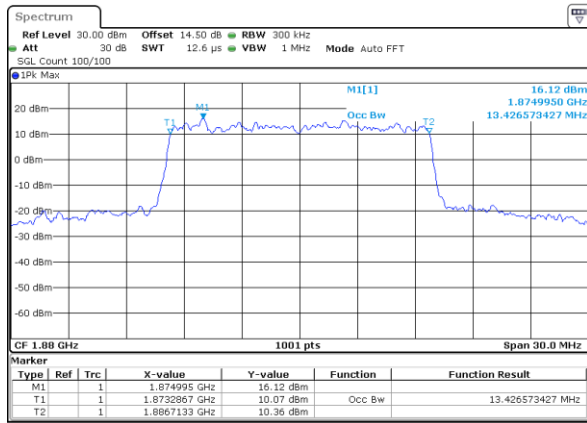
Date: 9,NOV,2019 03:36:45

**LTE Band 2****Lowest Channel / 15MHz / QPSK**

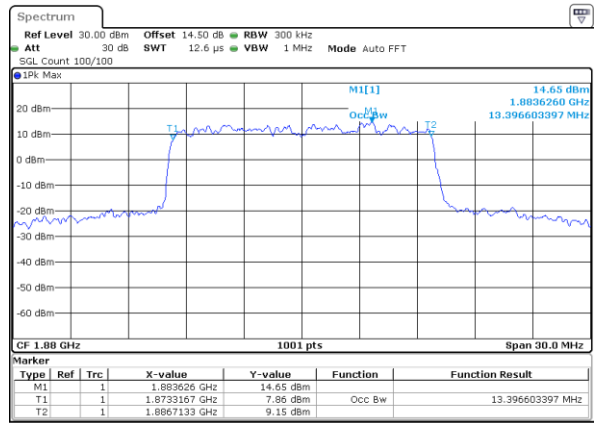
Date: 9,NOV,2019 03:56:13

Lowest Channel / 15MHz / 16QAM

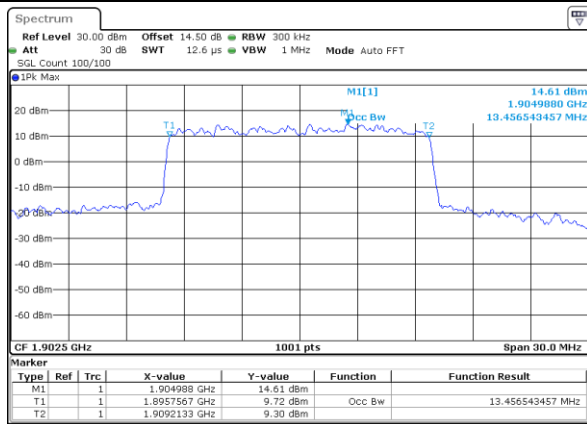
Date: 9,NOV,2019 03:56:24

Middle Channel / 15MHz / QPSK

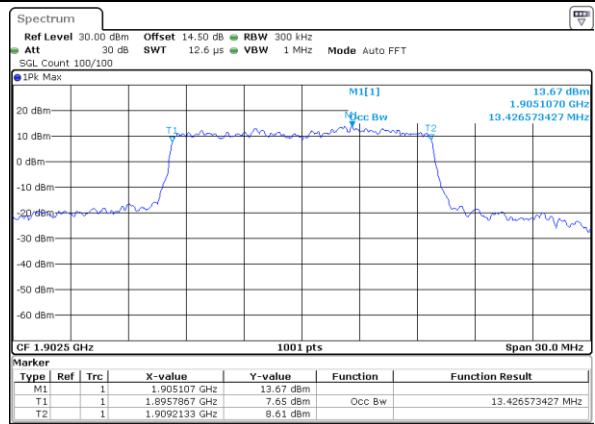
Date: 9,NOV,2019 04:14:22

Middle Channel / 15MHz / 16QAM

Date: 9,NOV,2019 04:14:32

Highest Channel / 15MHz / QPSK

Date: 9,NOV,2019 04:16:54

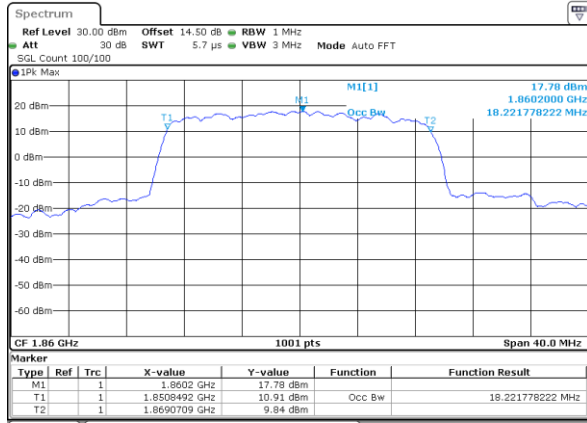
Highest Channel / 15MHz / 16QAM

Date: 9,NOV,2019 04:17:05



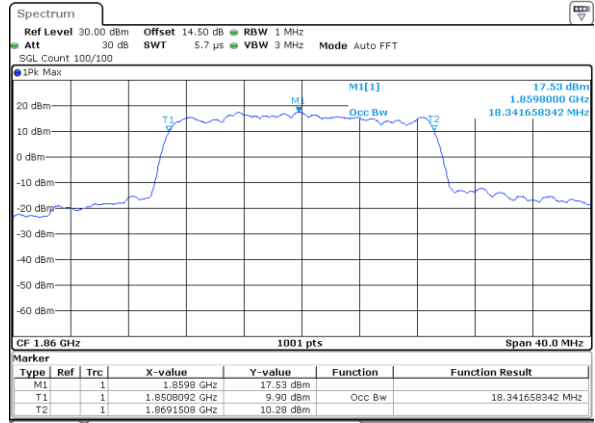
LTE Band 2

Lowest Channel / 20MHz / QPSK



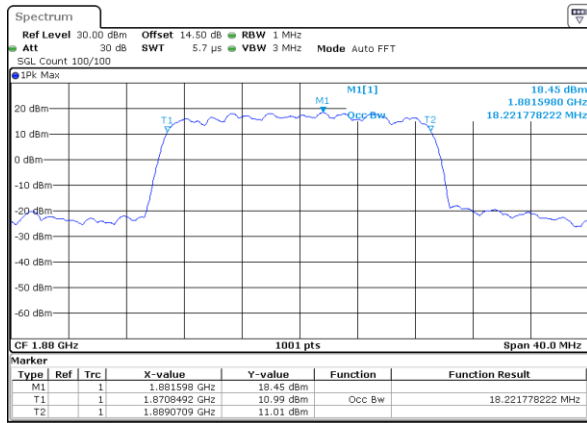
Date: 9,NOV,2019 04:30:53

Lowest Channel / 20MHz / 16QAM



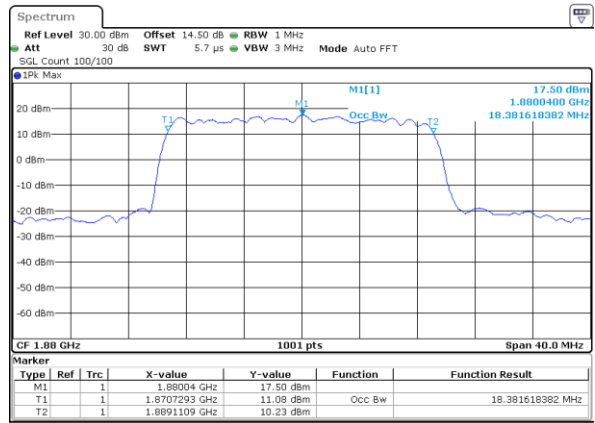
Date: 9,NOV,2019 04:31:04

Middle Channel / 20MHz / QPSK



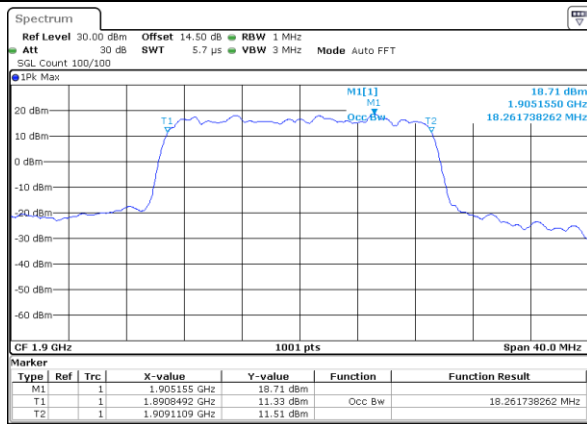
Date: 9,NOV,2019 05:28:03

Middle Channel / 20MHz / 16QAM



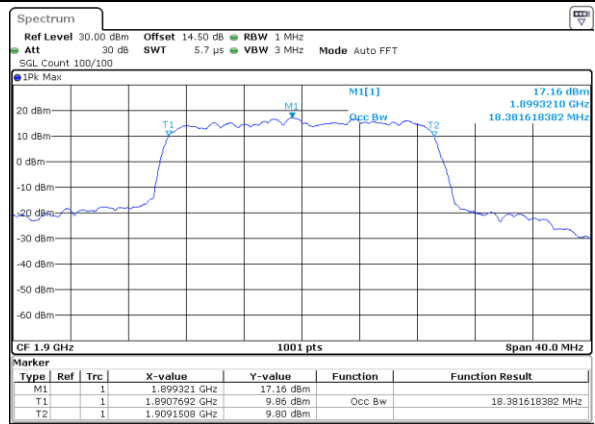
Date: 9,NOV,2019 05:28:14

Highest Channel / 20MHz / QPSK



Date: 9,NOV,2019 05:30:36

Highest Channel / 20MHz / 16QAM



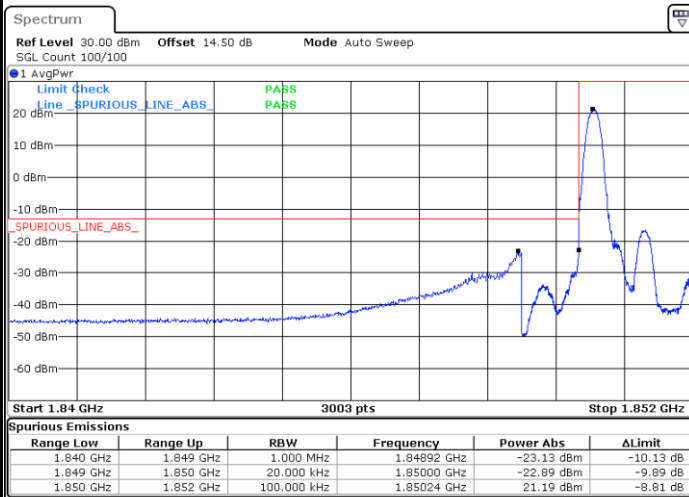
Date: 9,NOV,2019 05:30:46



Conducted Band Edge

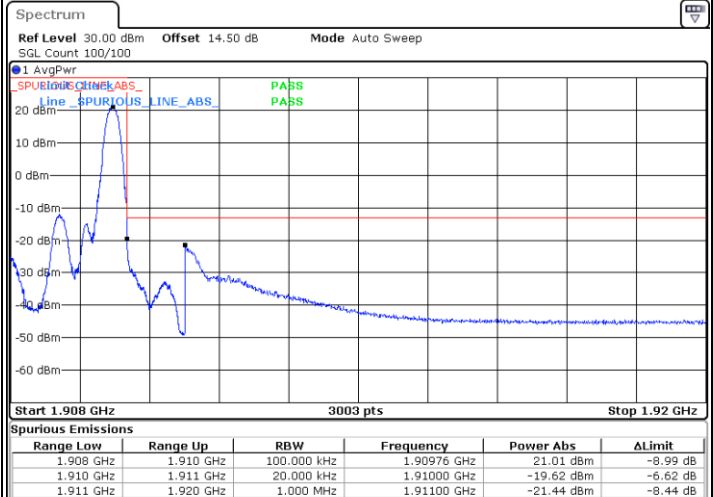
LTE Band 2 / 1.4MHz / QPSK

Lowest Band Edge / 1RB



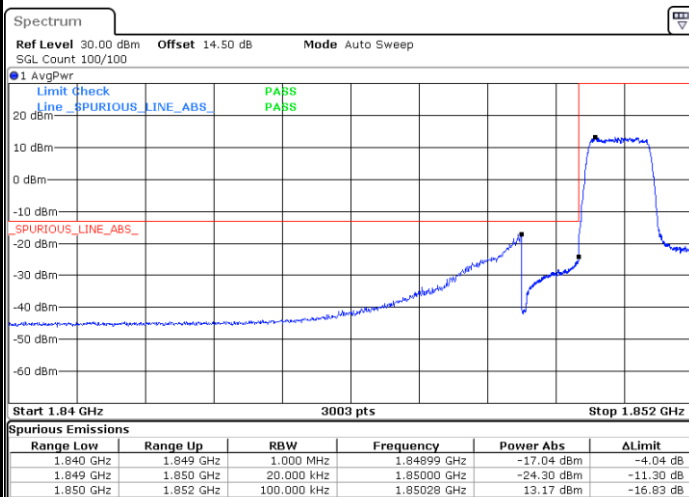
Date: 9.NOV.2019 02:19:57

Highest Band Edge / 1RB



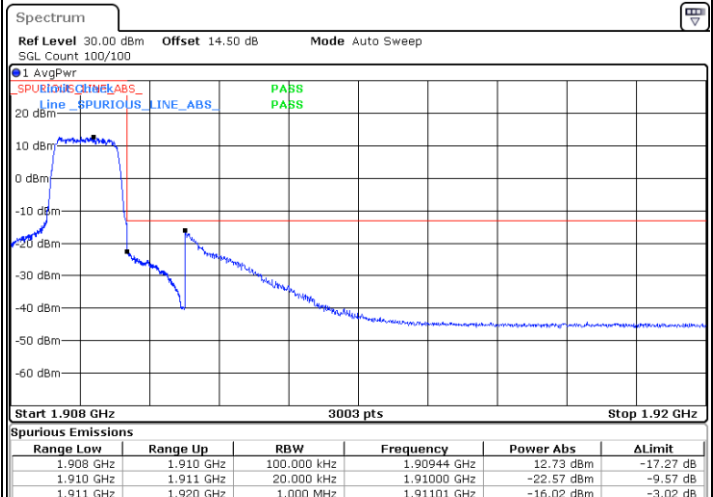
Date: 9.NOV.2019 02:29:39

Lowest Band Edge / Full RB



Date: 9.NOV.2019 02:22:16

Highest Band Edge / Full RB

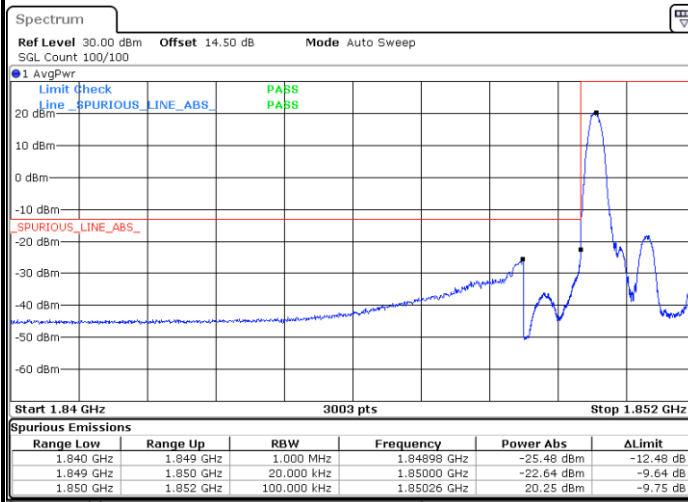


Date: 9.NOV.2019 07:12:55

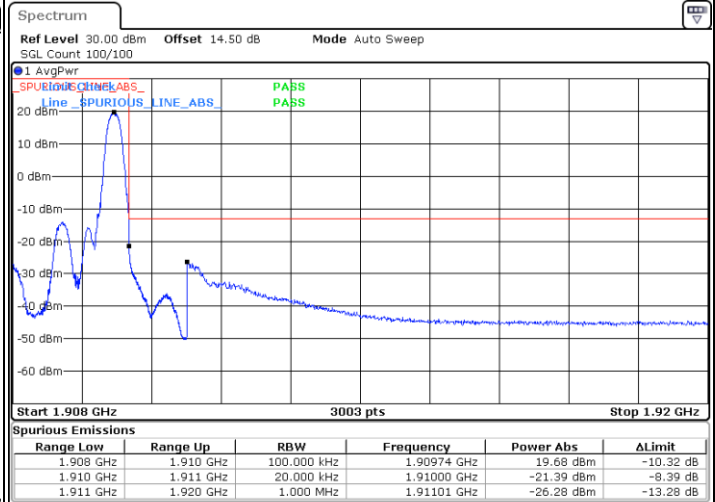


LTE Band 2 / 1.4MHz / 16QAM

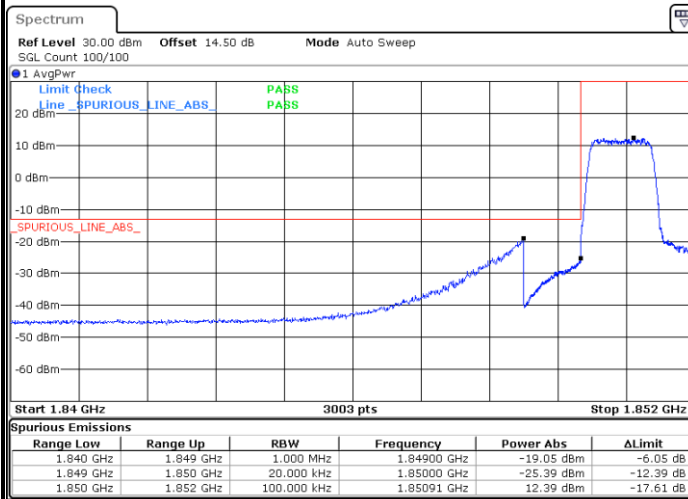
Lowest Band Edge / 1 RB



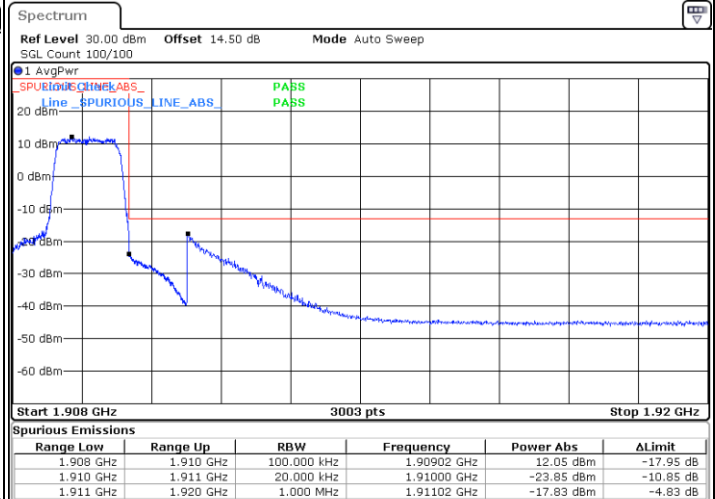
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



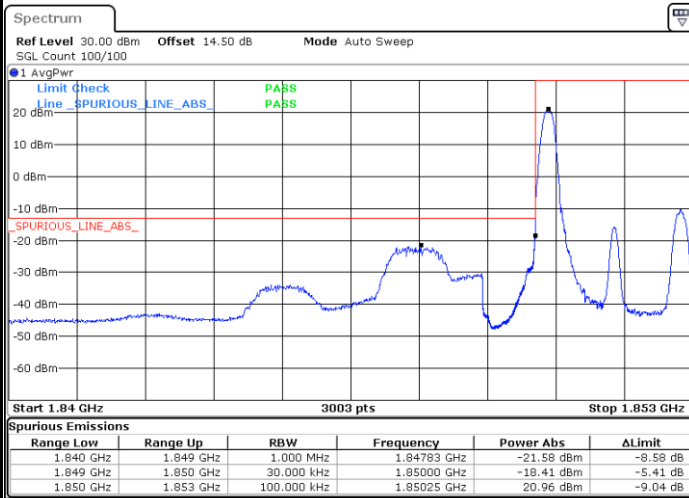
Highest Band Edge / Full RB



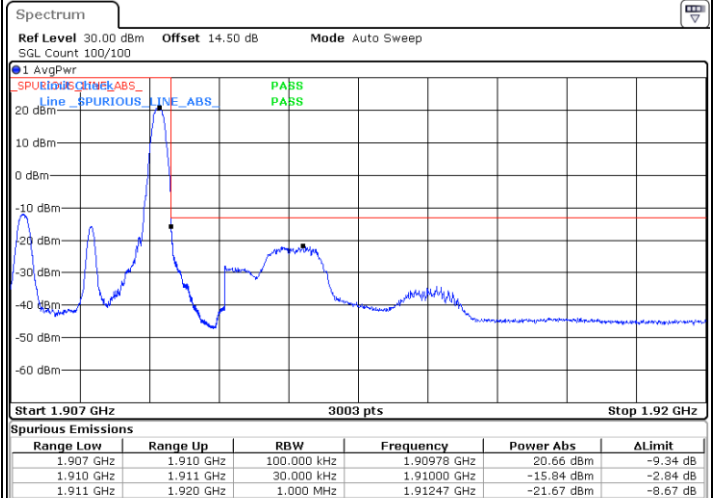


LTE Band 2 / 3MHz / QPSK

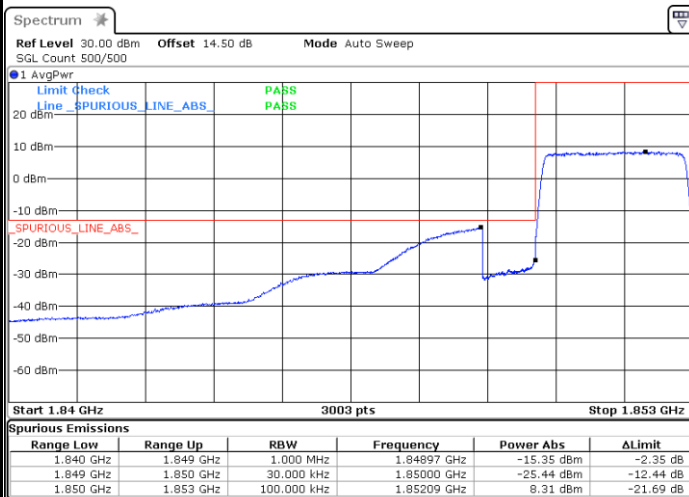
Lowest Band Edge / 1RB



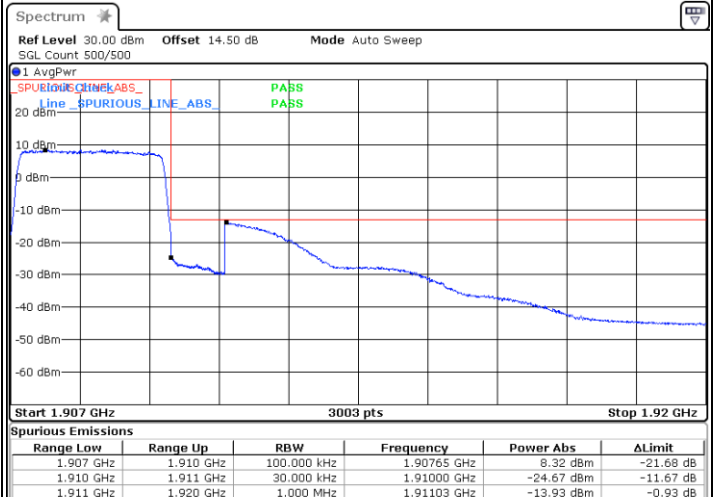
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



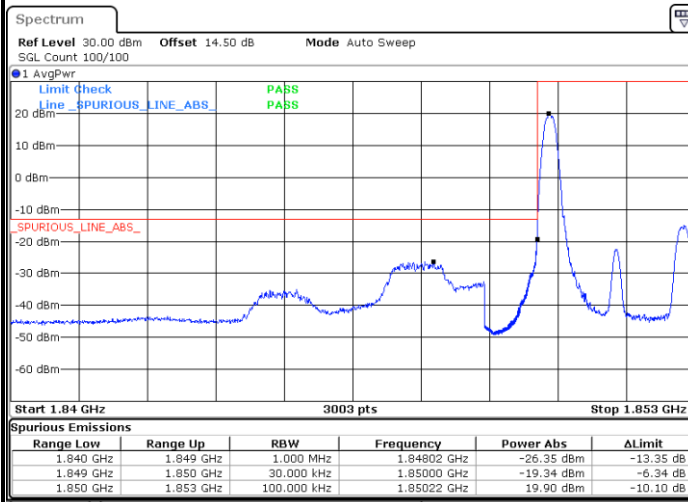
Highest Band Edge / Full RB



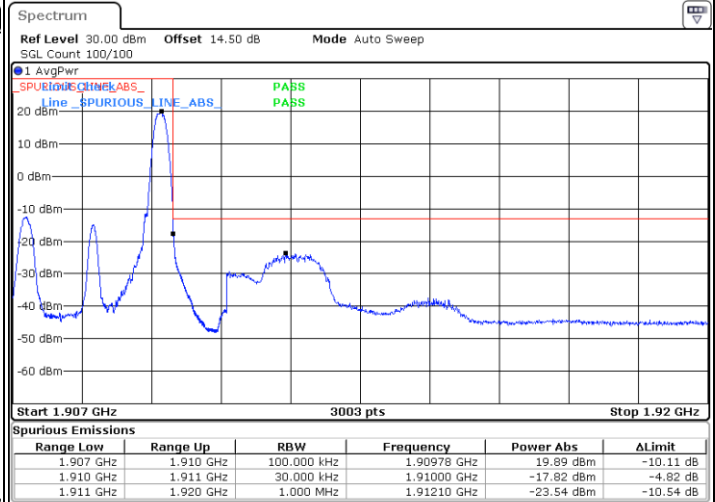


LTE Band 2 / 3MHz / 16QAM

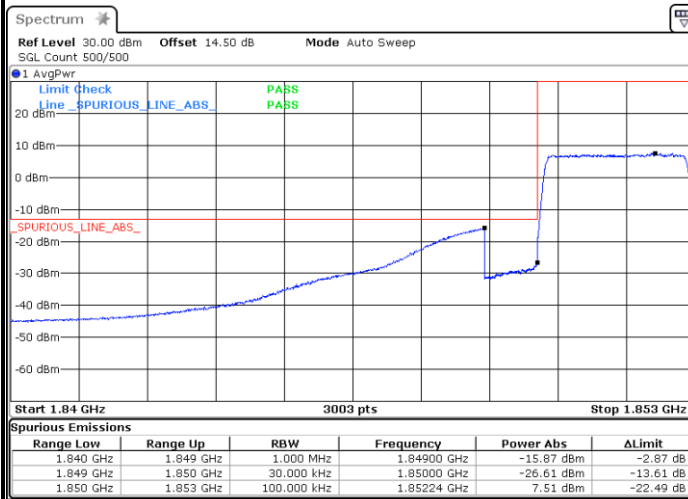
Lowest Band Edge / 1 RB



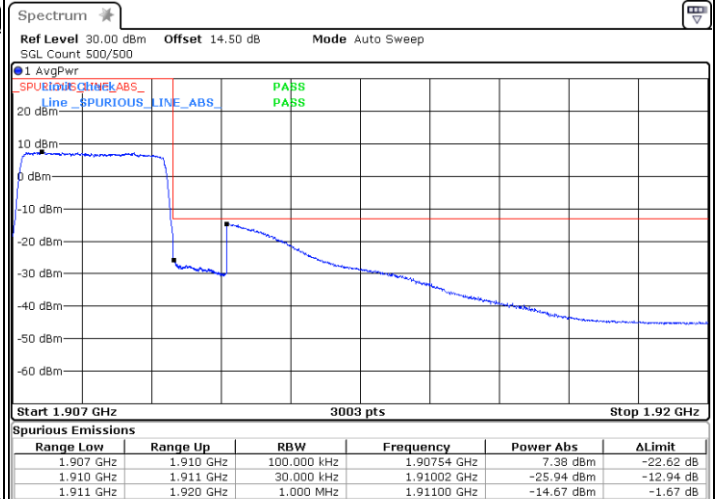
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



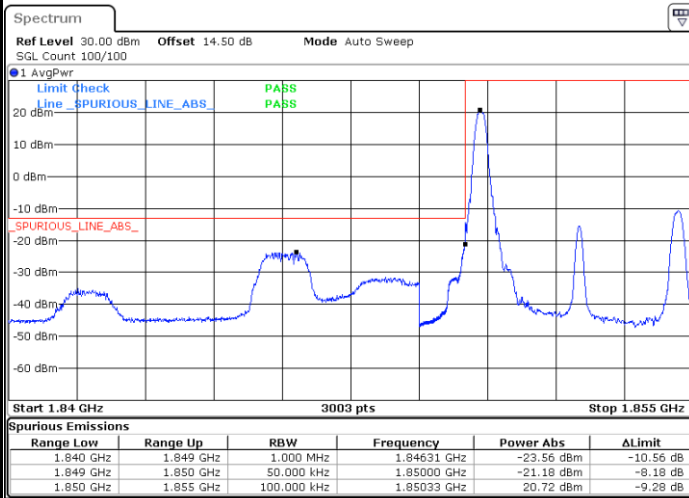
Highest Band Edge / Full RB



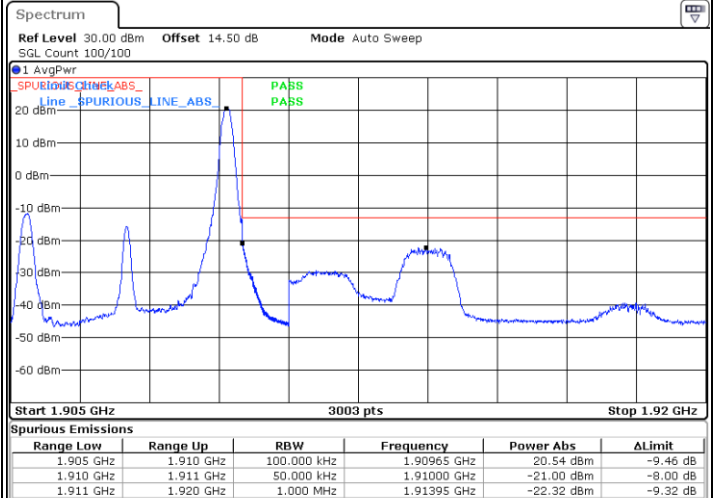


LTE Band 2 / 5MHz / QPSK

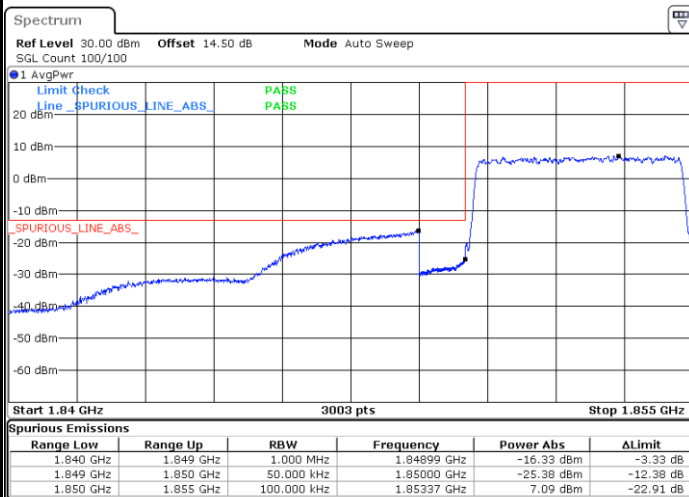
Lowest Band Edge / 1 RB



Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



Highest Band Edge / Full RB

