



FCC RADIO TEST REPORT

FCC ID : UZ7TC26AK
Equipment : Touch computer
Brand Name : Zebra
Model Name : TC26AK
Applicant : Zebra Technologies Corporation
1 Zebra Plaza, Holtsville, NY 11742
Manufacturer : Zebra Technologies Corporation
1 Zebra Plaza, Holtsville, NY 11742
Standard : 47 CFR Part 2, 22(H), 24(E), 27

The product was received on Mar. 12, 2020 and testing was started from Mar. 20, 2020 and completed on Apr. 26, 2020. We, SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory, would like to declare that the tested sample has been evaluated in accordance with the test procedures given in ANSI / TIA-603-E and has been in compliance with the applicable technical standards.

The report must not be used by the client to claim product certification, approval, or endorsement by TAF or any agency of government.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory, the test report shall not be reproduced except in full.

Louis Wu

Approved by: Louis Wu

SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory

No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.)



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History of this test report

Report No.	Version	Description	Issued Date
FG010720B	01	Initial issue of report	Apr. 30, 2020

Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.2	§2.1046	Conducted Output Power	Reporting only	-
	§22.913 (a)(2)	Effective Radiated Power (Band 5) (Band 26)	Pass	
	§27.50 (b)(10) §27.50 (c)(10)	Effective Radiated Power (Band 12) (Band 13) (Band 17)		
	§24.232 (c) §27.50 (h)(2)	Equivalent Isotropic Radiated Power (Band 2) (Band 25) (Band 7) (Band 41)		
	§27.50 (d)(4)	Equivalent Isotropic Radiated Power (Band 4) (Band 66)		
3.3	§24.232 (d) §27.50 (d)(5)	Peak-to-Average Ratio	Pass	-
3.4	§2.1049	Occupied Bandwidth	Reporting only	-
3.5	§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) (Band 66)	Pass	-
	§2.1051 §27.53 (m)(4)	Conducted Band Edge Measurement (Band 7) (Band 41)		
3.6	§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) (Band 66)	Pass	-
	§2.1051 §27.53 (m)(4)	Conducted Spurious Emission (Band 7) (Band 41)		
3.7	§2.1055 §22.355 §24.235 §27.54	Frequency Stability Temperature & Voltage	Pass	-



Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
4.2	§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) (Band 66)	Pass	Under limit 12.23 dB at 1566.000 MHz
	§2.1051 §27.53 (m)(4)	Radiated Spurious Emission (Band 7) (Band 41)		

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.

Reviewed by: Wii Chang**Report Producer: Yimin Ho**



1 General Description

1.1 Product Feature of Equipment Under Test

Product Feature	
Equipment	Touch computer
Brand Name	Zebra
Model Name	TC26AK
FCC ID	UZ7TC26AK
Sample	Single-WAN, WLAN, GMS, SE4710, NFC, 4GB/64GB, Rear camera and Front camera, 2-pin connector
EUT supports Radios application	WCDMA/HSPA/LTE/NFC/GNSS WLAN 11a/b/g/n HT20/HT40 WLAN 11ac VHT20/VHT40/VHT80 Bluetooth BR/EDR/LE
HW Version	DV0
SW Version	Android version 10
OS Version	FUSION_QA_2_1.0.0.008_Q
FW Version	Zebra/TC26PA/TC26:10/03-09-09.00-QN-U00-PRD/Nabe030 91333:userdebug/test-keys
MFD	26MAR20
EUT Stage	Engineering sample

Remark: The above EUT's information was declared by manufacturer.

Specification of Accessories				
AC Adapter	Brand Name	Zebra	Part Number	PWR-WUA5V12W0US
Battery 1	Brand Name	Zebra	Part Number	BT-000409-00
Battery 2	Brand Name	Zebra	Part Number	BT-000409-50
Battery 3	Brand Name	Zebra	Part Number	BT-000411-08
USB Cable 1 (Type A plug to Type C plug)	Brand Name	Zebra	Part Number	CBL-TC5X-USBC2A-01
USB Cable 2 (Type A plug to Type C plug)	Brand Name	Zebra	Part Number	CBL-TC2Y-USBC90A-01
Headset 3.5mm type with PTT/micassy	Brand Name	Zebra	Part Number	HDST-35MM-PTVP-01
Adapter Cable PTT headset (3.5mm to 3.5mm)	Brand Name	Zebra	Part Number	CBL-TC51-HDST35-01
Snap on Trigger handle	Brand Name	Zebra	Part Number	TRG-TC2Y-SNP1-01
Belt Holster	Brand Name	Zebra	Part Number	SG-TC2Y-HLSTR1-01
Wearable Arm Mount	Brand Name	Zebra	Part Number	SG-TC2Y-ARMNT-01

Support Unit used in test configuration and system				
Type C to 3.5mm headset adaptor	Brand Name	Google	Part Number	Pixel-2-2XL

1.2 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 7: 2502.5 MHz ~ 2567.5 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: 1850.7 MHz ~ 1914.3 MHz LTE Band 26: 824.7 MHz ~ 848.3 MHz LTE Band 41: 2498.5 MHz ~ 2687.5 MHz LTE Band 66: 1710.7 MHz ~ 1779.3 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 7: 2622.5 MHz ~ 2687.5 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: 1930.7 MHz ~ 1994.3 MHz LTE Band 26: 869.7 MHz ~ 893.3 MHz LTE Band 41: 2498.5 MHz ~ 2687.5 MHz LTE Band 66: 2110.7 MHz ~ 2199.3 MHz
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 7: 5MHz / 10MHz / 15MHz / 20MHz 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 LTE Band 41: 5MHz / 10MHz / 15MHz / 20MHz LTE Band 66: 1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz / 20MHz
Maximum Output Power to Antenna	LTE Band 2: 24.42 dBm LTE Band 4: 24.48 dBm LTE Band 5: 24.91 dBm LTE Band 7: 23.38 dBm LTE Band 12: 24.78 dBm LTE Band 13: 23.39 dBm LTE Band 17: 24.74 dBm LTE Band 25: 24.24 dBm LTE Band 26: 24.22 dBm LTE Band 41: 24.40 dBm LTE Band 66: 24.46 dBm

Standards-related Product Specification	
Antenna Type	PIFA Antenna
Antenna Gain	LTE Band 2: 3.10 dBi LTE Band 4: 3.10 dBi LTE Band 5: 1.40 dBi LTE Band 7: 2.10 dBi LTE Band 12: 1.00 dBi LTE Band 13: 1.00 dBi LTE Band 17: 1.00 dBi LTE Band 25: 3.10 dBi LTE Band 26: 1.40 dBi LTE Band 41: 3.10 dBi LTE Band 66: 3.10 dBi
Type of Modulation	QPSK / 16QAM / 64QAM

1.3 Modification of EUT

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

1.4 Emission Designator

LTE Band 2		QPSK			16QAM			64QAM		
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)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum EIRP(W)
1.4	1850.7 ~ 1909.3	1M10G7D	-	0.5572	1M09W7D	-	0.4550	1M09W7D	-	0.3589
3	1851.5 ~ 1908.5	2M73G7D	-	0.5598	2M73W7D	-	0.4519	2M73W7D	-	0.3597
5	1852.5 ~ 1907.5	4M51G7D	-	0.5534	4M51W7D	-	0.4508	4M51W7D	-	0.3589
10	1855.0 ~ 1905.0	9M05G7D	0.0039	0.5572	9M09W7D	-	0.4539	9M07W7D	-	0.3597
15	1857.5 ~ 1902.5	13M5G7D	-	0.5433	13M5W7D	-	0.4550	13M5W7D	-	0.3614
20	1860.0 ~ 1900.0	17M9G7D	-	0.5649	17M9W7D	-	0.4560	17M9W7D	-	0.3622
LTE Band 4		QPSK			16QAM			64QAM		
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)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum EIRP(W)
1.4	1710.7 ~ 1754.3	1M09G7D	-	0.5675	1M09W7D	-	0.4508	1M09W7D	-	0.3614
3	1711.5 ~ 1753.5	2M72G7D	-	0.5689	2M73W7D	-	0.4539	2M73W7D	-	0.3606
5	1712.5 ~ 1752.5	4M53G7D	-	0.5702	4M50W7D	-	0.4539	4M52W7D	-	0.3631
10	1715.0 ~ 1750.0	9M11G7D	0.0029	0.5598	9M07W7D	-	0.4508	9M05W7D	-	0.3524
15	1717.5 ~ 1747.5	13M4G7D	-	0.5689	13M5W7D	-	0.4560	13M5W7D	-	0.3597
20	1720.0 ~ 1745.0	17M9G7D	-	0.5728	17M9W7D	-	0.4571	17M9W7D	-	0.3631



LTE Band 5		QPSK			16QAM			64QAM		
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)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum ERP(W)
1.4	824.7 ~ 848.3	1M09G7D	-	0.2570	1M10W7D	-	0.2094	1M09W7D	-	0.1667
3	825.5 ~ 847.5	2M73G7D	-	0.2588	2M74W7D	-	0.2080	2M72W7D	-	0.1656
5	826.5 ~ 846.5	4M51G7D	-	0.2576	4M50W7D	-	0.2070	4M50W7D	-	0.1652
10	829.0 ~ 844.0	9M07G7D	0.0020	0.2606	9M07W7D	-	0.2109	9M05W7D	-	0.1679
LTE Band 7		QPSK			16QAM			64QAM		
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)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum EIRP(W)
5	2502.5 ~ 2567.5	4M51G7D	-	0.3436	4M53W7D	-	0.2844	4M51W7D	-	0.2259
10	2505.0 ~ 2565.0	9M07G7D	0.0069	0.3475	9M05W7D	-	0.2851	9M07W7D	-	0.2228
15	2507.5 ~ 2562.5	13M5G7D	-	0.3483	13M4W7D	-	0.2838	13M5W7D	-	0.2223
20	2510.0 ~ 2560.0	17M9G7D	-	0.3532	18M0W7D	-	0.2871	17M9W7D	-	0.2259
LTE Band 12		QPSK			16QAM			64QAM		
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)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum ERP(W)
1.4	699.7 ~ 715.3	1M09G7D	-	0.2301	1M09W7D	-	0.1879	1M09W7D	-	0.1483
3	700.5 ~ 714.5	2M73G7D	-	0.2265	2M73W7D	-	0.1892	2M72W7D	-	0.1500
5	701.5 ~ 713.5	4M50G7D	-	0.2239	4M52W7D	-	0.1875	4M51W7D	-	0.1489
10	704.0 ~ 711.0	9M03G7D	0.0044	0.2307	9M07W7D	-	0.1914	9M05W7D	-	0.1531
LTE Band 13		QPSK			16QAM			64QAM		
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)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum ERP(W)
5	779.5 ~ 784.5	4M52G7D	-	0.2094	4M50W7D	-	0.1706	4M55W7D	-	0.1358
10	782.0	9M05G7D	0.0037	0.2109	8M97W7D	-	0.1718	9M01W7D	-	0.1358
LTE Band 17		QPSK			16QAM			64QAM		
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)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum ERP(W)
5	706.5 ~ 713.5	4M51G7D	-	0.2275	4M51W7D	-	0.1910	4M51W7D	-	0.1514
10	709.0 ~ 711.0	9M09G7D	0.0023	0.2286	9M07W7D	-	0.1919	9M03W7D	-	0.1521



LTE Band 25		QPSK			16QAM			64QAM		
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)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum EIRP(W)
1.4	1850.7 ~ 1914.3	1M10G7D	-	0.5383	1M10W7D	-	0.4436	1M10W7D	-	0.3491
3	1851.5 ~ 1913.5	2M72G7D	-	0.5370	2M73W7D	-	0.4508	2M73W7D	-	0.3524
5	1852.5 ~ 1912.5	4M51G7D	-	0.5358	4M50W7D	-	0.4406	4M51W7D	-	0.3581
10	1855.0 ~ 1910.0	9M05G7D	0.0091	0.5260	9M03W7D	-	0.4508	9M07W7D	-	0.3499
15	1857.5 ~ 1907.5	13M5G7D	-	0.5346	13M5W7D	-	0.4498	13M5W7D	-	0.3589
20	1860.0 ~ 1905.0	17M9G7D	-	0.5420	17M9W7D	-	0.4550	17M9W7D	-	0.3597
LTE Band 26		QPSK			16QAM			64QAM		
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)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum ERP(W)
1.4	824.7 ~ 848.3	1M09G7D	-	0.2198	1M10W7D	-	0.1901	1M10W7D	-	0.1483
3	825.5 ~ 847.5	2M72G7D	-	0.2208	2M73W7D	-	0.1888	2M73W7D	-	0.1496
5	826.5 ~ 846.5	4M50G7D	-	0.2178	4M50W7D	-	0.1897	4M51W7D	-	0.1483
10	829.0 ~ 844.0	9M09G7D	0.0128	0.2188	9M07W7D	-	0.1923	9M05W7D	-	0.1493
15	831.5 ~ 841.5	13M5G7D	-	0.2223	13M5W7D	-	0.1923	13M5W7D	-	0.1500
LTE Band 41		QPSK			16QAM			64QAM		
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)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum EIRP(W)
5	2498.5 ~ 2687.5	4M53G7D	-	0.5598	4M50W7D	-	0.4550	4M51W7D	-	0.3243
10	2501.0 ~ 2685.0	9M05G7D	0.0049	0.5610	9M05W7D	-	0.4436	9M07W7D	-	0.3266
15	2503.5 ~ 2682.5	13M4G7D	-	0.5559	13M4W7D	-	0.4395	13M5W7D	-	0.3221
20	2506.0 ~ 2680.0	17M9G7D	-	0.5623	17M8W7D	-	0.4571	17M9W7D	-	0.3304
LTE Band 66		QPSK			16QAM			64QAM		
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)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum EIRP(W)
1.4	1710.7 ~ 1779.3	1M09G7D	-	0.5675	1M10W7D	-	0.4539	1M10W7D	-	0.3565
3	1711.5 ~ 1778.5	2M74G7D	-	0.5572	2M73W7D	-	0.4529	2M73W7D	-	0.3491
5	1712.5 ~ 1777.5	4M51G7D	-	0.5495	4M50W7D	-	0.4416	4M50W7D	-	0.3565
10	1715.0 ~ 1775.0	9M09G7D	0.0017	0.5662	9M03W7D	-	0.4467	9M05W7D	-	0.3483
15	1717.5 ~ 1772.5	13M5G7D	-	0.5521	13M5W7D	-	0.4508	13M5W7D	-	0.3540
20	1720.0 ~ 1770.0	17M9G7D	-	0.5702	17M9W7D	-	0.4560	17M9W7D	-	0.3622

1.5 Testing Location

Test Site	SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory
Test Site Location	No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.) TEL: +886-3-327-3456 FAX: +886-3-328-4978
Test Site No.	Sporton Site No. TH05-HY
Test Engineer	Luffy Lin
Temperature	22~25°C
Relative Humidity	50~53%

Note: The test site complies with ANSI C63.4 2014 requirement.

Test Site	SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory
Test Site Location	No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.) TEL: +886-3-327-0868 FAX: +886-3-327-0855
Test Site No.	Sporton Site No. 03CH11-HY
Test Engineer	Cookie Ku, Fu Chen, Troye Hsieh and Quentin Liu
Temperature	19.6~26.5°C
Relative Humidity	49.6~70.1%

Note: The test site complies with ANSI C63.4 2014 requirement.

FCC Designation No.: TW1190 and TW0007

1.6 Applicable Standards

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

- ♦ ANSI C63.26-2015
- ♦ ANSI / TIA-603-E
- ♦ 47 CFR Part 2, 22(H), 24(E), 27
- ♦ FCC KDB 971168 D01 Power Meas. License Digital Systems v03r01
- ♦ FCC KDB 412172 D01 Determining ERP and EIRP v01r01
- ♦ FCC KDB 414788 D01 Radiated Test Site 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.

For radiated measurement, pre-scanned in three orthogonal panels, X, Y, Z and Accessory. The worst cases (X Plane with Adapter for LTE Band 7, 12, 17, 41, X Plane with Earphone for LTE Band 4, 25, Y Plane with Adapter for LTE Band 13 and Y Plane with Earphone for LTE Band 26, 66) were recorded in this report.

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	v
	4	v	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	v
	7	-	-	v	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	v
	13	-	-	v	v	-	-	v	v	v	v	v	v	v	v	v
	17	-	-	v	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	v
	26	v	v	v	v	v	-	v	v	v	v	v	v	v	v	v
	41	-	-	v	v	v	v	v	v	v	v	v	v	v	v	v
	66	v	v	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	v
	4						v	v	v	v	v		v	v	v	v
	5				v	-	-	v	v	v	v		v	v	v	v
	7	-	-				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
	17	-	-		v	-	-	v	v	v	v		v	v	v	v
	25						v	v	v	v	v		v	v	v	v
	26					v	-	v	v	v	v		v	v	v	v
	41	-	-				v	v	v	v	v		v	v	v	v
	66						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
26dB and 99% Bandwidth	2	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
	5	v	v	v	v	-	-	v	v	v			v	v	v	v
	7	-	-	v	v	v	v	v	v	v			v	v	v	v
	12	v	v	v	v	-	-	v	v	v			v	v	v	v
	13	-	-	v	v	-	-	v	v	v			v	v	v	v
	17	-	-	v	v	-	-	v	v	v			v	v	v	v
	25	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
	41	-	-	v	v	v	v	v	v	v			v	v	v	v
	66	v	v	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		v
	4	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
	7	-	-	v	v	v	v	v	v	v	v		v	v		v
	12	v	v	v	v	-	-	v	v	v	v		v	v		v
	13	-	-	v	v	-	-	v	v	v	v		v	v		v
	17	-	-	v	v	-	-	v	v	v	v		v	v		v
	25	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
	41	-	-	v	v	v	v	v	v	v	v		v	v		v
	66	v	v	v	v	v	v	v	v	v	v		v	v		v



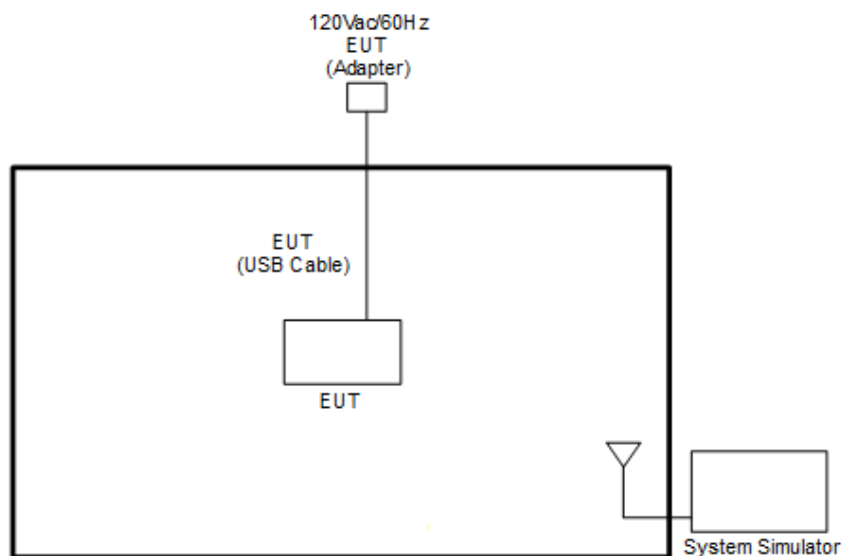
Test Items	Band	Bandwidth (MHz)						Modulation			RB #			Test Channel		
		1.4	3	5	10	15	20	QPSK	16QAM	64QAM	1	Half	Full	L	M	H
Conducted Spurious Emission	2	v	v	v	v	v	v	v	v	v	v			v	v	v
	4	v	v	v	v	v	v	v	v	v	v			v	v	v
	5	v	v	v	v	-	-	v	v	v	v			v	v	v
	7	-	-	v	v	v	v	v	v	v	v			v	v	v
	12	v	v	v	v	-	-	v	v	v	v			v	v	v
	13	-	-	v	v	-	-	v	v	v	v			v	v	v
	17	-	-	v	v	-	-	v	v	v	v			v	v	v
	25	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
	41	-	-	v	v	v	v	v	v	v	v			v	v	v
	66	v	v	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	
	7	-	-		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	
	41	-	-		v			v					v		v	
	66				v			v					v		v	



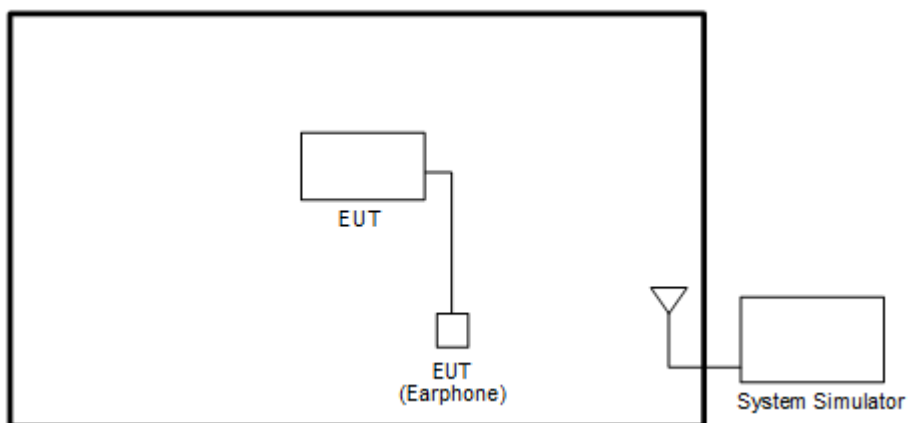
Test Items	Band	Bandwidth (MHz)						Modulation			RB #			Test Channel		
		1.4	3	5	10	15	20	QPSK	16QAM	64QAM	1	Half	Full	L	M	H
E.R.P / E.I.R.P	2	v	v	v	v	v	v	v	v	v	v			v	v	v
	4	v	v	v	v	v	v	v	v	v	v			v	v	v
	5	v	v	v	v	-	-	v	v	v	v			v	v	v
	7	-	-	v	v	v	v	v	v	v	v			v	v	v
	12	v	v	v	v	-	-	v	v	v	v			v	v	v
	13	-	-	v	v	-	-	v	v	v	v			v	v	v
	17	-	-	v	v	-	-	v	v	v	v			v	v	v
	25	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
	41	-	-	v	v	v	v	v	v	v	v			v	v	v
	66	v	v	v	v	v	v	v	v	v	v			v	v	v
Radiated Spurious Emission	2	Covered by Band 25														
	4	Worst Case												v	v	v
	5	Covered by Band 26														
	7	Worst Case												v	v	v
	12	Worst Case												v	v	v
	13	Worst Case												v	v	v
	17	Worst Case												v	v	v
	25	Worst Case												v	v	v
	26	Worst Case												v	v	v
	41	Worst Case												v	v	v
	66	Worst Case												v	v	v
Remark	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. 4. All the radiated test cases were performed with USB Cable 1. 5. Wider operating range bandwidth covers narrower one when the power is higher or the same.															

2.2 Connection Diagram of Test System

<EUT with Adapter>



<EUT with Earphone>



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.	System Simulator	Anritsu	MT8821C	N/A	N/A	Unshielded, 1.8 m



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 4.2 dB and 10dB attenuator.

Example :

$$\begin{aligned}\text{Offset(dB)} &= \text{RF cable loss(dB)} + \text{attenuator factor(dB)} \\ &= 4.2 + 10 = 14.2 \text{ (dB)}\end{aligned}$$

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 7 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	20850	21100	21350
	Frequency	2510	2535	2560
15	Channel	20825	21100	21375
	Frequency	2507.5	2535	2562.5
10	Channel	20800	21100	21400
	Frequency	2505	2535	2565
5	Channel	20775	21100	21425
	Frequency	2502.5	2535	2567.5

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	829.0	836.5	844.0
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

LTE Band 41 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	39750	40620	41490
	Frequency	2506.0	2593.0	2680.0
15	Channel	39725	40620	41515
	Frequency	2503.5	2593.0	2682.5
10	Channel	39700	40620	41540
	Frequency	2501.0	2593.0	2685.0
5	Channel	39675	40620	41565
	Frequency	2498.5	2593.0	2687.5



LTE Band 66 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	132072	132322	132572
	Frequency	1720	1745	1770
15	Channel	132047	132322	132597
	Frequency	1717.5	1745	1772.5
10	Channel	132022	132322	132622
	Frequency	1715	1745	1775
5	Channel	131997	132322	132647
	Frequency	1712.5	1745	1777.5
3	Channel	131987	132322	132657
	Frequency	1711.5	1745	1778.5
1.4	Channel	131979	132322	132665
	Frequency	1710.7	1745	1779.3

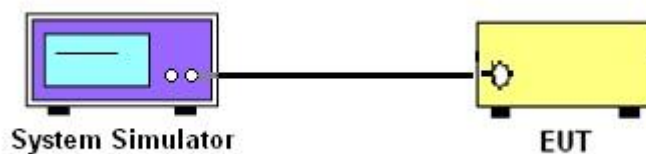
3 Conducted Test Items

3.1 Measuring Instruments

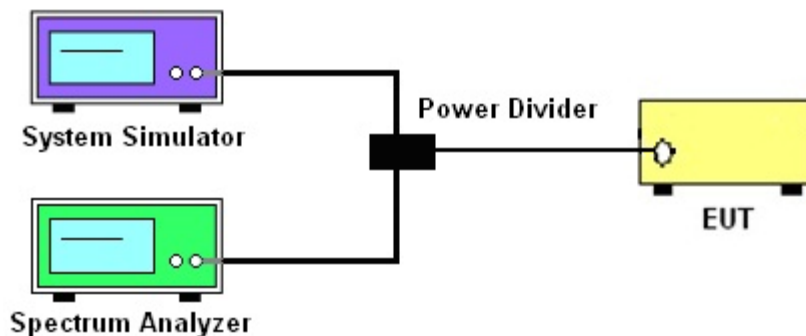
See list of measuring instruments of this test report.

3.1.1 Test Setup

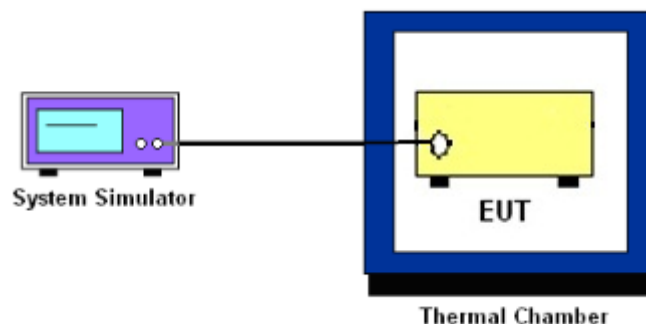
3.1.2 Conducted Output Power



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



3.1.4 Frequency Stability



3.1.5 Test Result of Conducted Test

Please refer to Appendix A.

3.2 Conducted Output Power and ERP/EIRP

3.2.1 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 and Band 13 and Band 17

The EIRP of mobile transmitters must not exceed 2 Watts for LTE Band 2 and Band 25 and Band 7 and Band 41

The EIRP of mobile transmitters must not exceed 1 Watts for LTE Band 4 and Band 66

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

3.2.2 Test Procedures

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



3.3 Peak-to-Average Ratio

3.3.1 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.

3.3.2 Test Procedures

The testing follows ANSI C63.26-2015 Section 5.2.6

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



3.4 Occupied Bandwidth

3.4.1 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.

3.4.2 Test Procedures

The testing follows ANSI C63.26-2015 Section 5.4.3 (26dB) and Section 5.4.4 (99OB)

1. The EUT was connected to spectrum analyzer and system simulator via a power divider.
2. 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.
3. 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.
4. Set the detection mode to peak, and the trace mode to max hold.
5. 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)
6. Determine the “-26 dB down amplitude” as equal to (Reference Value – X).
7. 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.
8. Use the 99 % power bandwidth function of the spectrum analyzer and report the measured bandwidth.



3.5 Conducted Band Edge

3.5.1 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.

27.53(m)(4)

For mobile digital stations, the attenuation factor shall be not less than $40 + 10 \log (P)$ dB on all frequencies between the channel edge and 5 megahertz from the channel edge, $43 + 10 \log (P)$ dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and $55 + 10 \log (P)$ dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less than $43 + 10 \log (P)$ dB on all frequencies between 2490.5 MHz and 2496 MHz and $55 + 10 \log (P)$ dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees.

3.5.2 Test Procedures

The testing follows FCC KDB 971168 D01 v03r01 Section 6.1.

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

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

For LTE Band 7, 41

The other 40 dB, and 55 dB have additionally applied same calculation above.

3.6 Conducted Spurious Emission

3.6.1 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.

For LTE Band 7, 41

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 $55 + 10 \log (P)$ dB.

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

3.6.2 Test Procedures

The testing follows FCC KDB 971168 D01 v03r01 Section 6.1.

1. The EUT was connected to spectrum analyzer and system simulator via a power divider.
2. 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.
3. The middle channel for the highest RF power within the transmitting frequency was measured.
4. The conducted spurious emission for the whole frequency range was taken.
5. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz.
6. Set spectrum analyzer with RMS detector.
7. Taking the record of maximum spurious emission.
8. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
9. The limit line is derived from $43 + 10\log(P)$ dB below the transmitter power P(Watts)

For LTE Band 7, 41

The limit line is derived from $55 + 10\log(P)$ dB below the transmitter power P(Watts)



3.7 Frequency Stability

3.7.1 Description of Frequency Stability Measurement

22.355

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.

24.235 & 27.54

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

3.7.2 Test Procedures for Temperature Variation

The testing follows FCC KDB 971168 D01 v03r01 Section 9.0.

1. The EUT was set up in the thermal chamber and connected with the system simulator.
2. 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.
3. 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.

3.7.3 Test Procedures for Voltage Variation

The testing follows FCC KDB 971168 D01 v03r01 Section 9.0.

1. The EUT was placed in a temperature chamber at $20 \pm 5^{\circ}\text{C}$ and connected with the system simulator.
2. The power supply voltage to the EUT was varied from 85% to 115% of the nominal value measured at the input to the EUT.
3. The variation in frequency was measured for the worst case.

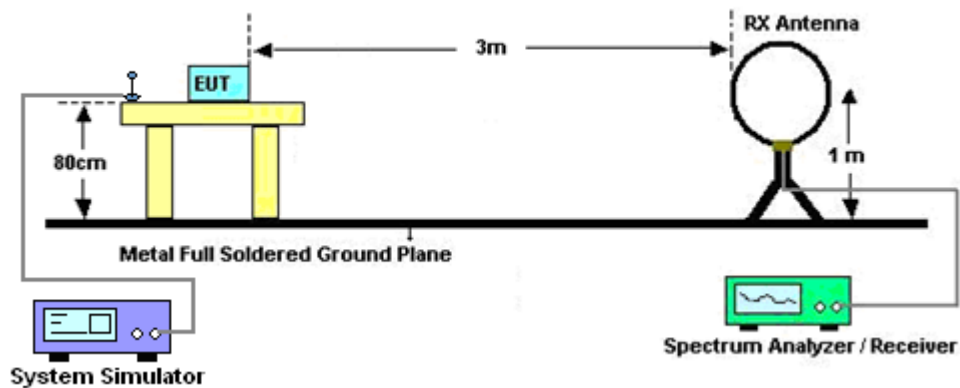
4 Radiated Test Items

4.1 Measuring Instruments

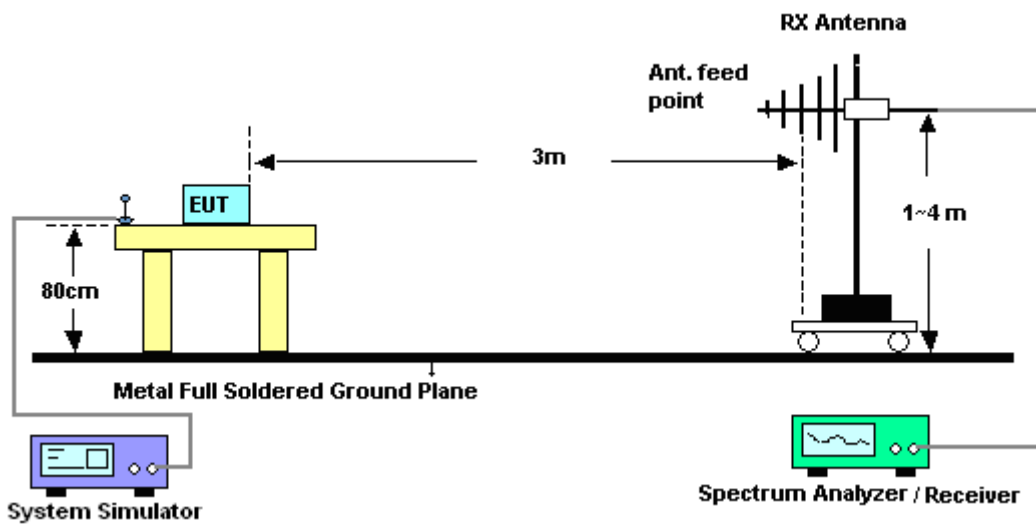
See list of measuring instruments of this test report.

4.1.1 Test Setup

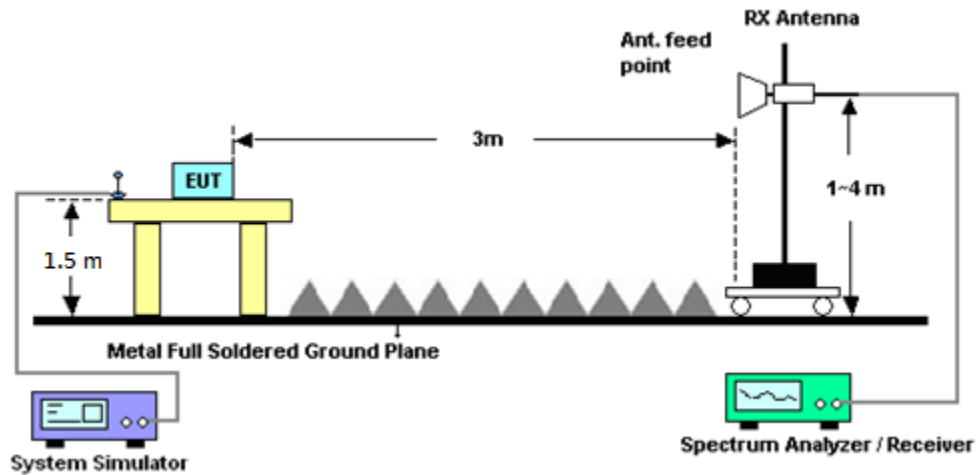
For radiated emissions below 30MHz



For radiated test from 30MHz to 1GHz



For radiated test above 1GHz



4.1.2 Test Result of Radiated Test

Please refer to Appendix B.

Note:

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line was not reported.

There is a comparison data of both open-field test site and alternative test site - semi-Anechoic chamber according to 414788 D01 Radiated Test Site v01r01, and the result came out very similar.



4.2 Radiated Spurious Emission Measurement

4.2.1 Description of Radiated Spurious Emission Measurement

The radiated spurious emission was measured by substitution method according to ANSI / TIA-603-E. 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 7, 41

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 $55 + 10 \log (P)$ 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.

4.2.2 Test Procedures

The testing follows FCC KDB 971168 D01 v03r01 Section 7 and ANSI / TIA-603-E Section 2.2.12.

1. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
2. The EUT was set 3 meters from the receiving antenna, which was mounted on the antenna tower.
3. The table was rotated 360 degrees to determine the position of the highest spurious emission.
4. The height of the receiving antenna is varied between one meter and four meters to search the maximum spurious emission for both horizontal and vertical polarizations.
5. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking the record of maximum spurious emission.
6. A horn antenna was substituted in place of the EUT and was driven by a signal generator.
7. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
8. Taking the record of output power at antenna port.
9. Repeat step 7 to step 8 for another polarization.
10. 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)

For LTE Band 7, 41

The limit line is derived from $55 + 10\log(P)$ dB below the transmitter power P(Watts)

$EIRP \text{ (dBm)} = S.G. \text{ Power} - Tx \text{ Cable Loss} + Tx \text{ Antenna Gain}$

$ERP \text{ (dBm)} = EIRP - 2.15$



5 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Preamplifier	EMEC	EM18G40G	060715	18GHz ~ 40GHz	Dec. 13, 2019	Mar. 25, 2020~ Apr. 26, 2020	Dec. 12, 2020	Radiation (03CH11-HY)
Amplifier	SONOMA	310N	187312	9kHz~1GHz	Dec. 03, 2019	Mar. 25, 2020~ Apr. 26, 2020	Dec. 02, 2020	Radiation (03CH11-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA917058 4	18GHz- 40GHz	Dec. 10, 2019	Mar. 25, 2020~ Apr. 26, 2020	Dec. 09, 2020	Radiation (03CH11-HY)
Bilog Antenna	TESEQ	CBL 6111D & N-6-06	35414 & AT-N0602	30MHz~1GHz	Oct. 12, 2019	Mar. 25, 2020~ Apr. 26, 2020	Oct. 11, 2020	Radiation (03CH11-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-1326	1GHz ~ 18GHz	Nov. 04, 2019	Mar. 25, 2020~ Apr. 26, 2020	Nov. 03, 2020	Radiation (03CH11-HY)
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100488	9 kHz~30 MHz	Jan. 09, 2020	Mar. 25, 2020~ Apr. 26, 2020	Jan. 08, 2021	Radiation (03CH11-HY)
Preamplifier	Keysight	83017A	MY53270080	1GHz~26.5GHz	Nov. 13, 2019	Mar. 25, 2020~ Apr. 26, 2020	Nov. 12, 2020	Radiation (03CH11-HY)
Spectrum Analyzer	Keysight	N9010A	MY54200486	10Hz~44GHz	Oct. 28, 2019	Mar. 25, 2020~ Apr. 26, 2020	Oct. 27, 2020	Radiation (03CH11-HY)
Filter	Wainwright	WHKX12-1080 -1200-15000-6 OSS	SN2	1.2GHz High Pass Filter	Sep. 15, 2019	Mar. 25, 2020~ Apr. 26, 2020	Sep. 14, 2020	Radiation (03CH11-HY)
Filter	Wainwright	WHKX12-2700 -3000-18000-6 OSS	SN3	3GHz High Pass Filter	Sep. 15, 2019	Mar. 25, 2020~ Apr. 26, 2020	Sep. 14, 2020	Radiation (03CH11-HY)
Controller	EMEC	EM 1000	N/A	Control Turn table & Ant Mast	N/A	Mar. 25, 2020~ Apr. 26, 2020	N/A	Radiation (03CH11-HY)
Antenna Mast	EMEC	AM-BS-4500-B	N/A	1~4m	N/A	Mar. 25, 2020~ Apr. 26, 2020	N/A	Radiation (03CH11-HY)
Turn Table	EMEC	TT 2000	N/A	0~360 Degree	N/A	Mar. 25, 2020~ Apr. 26, 2020	N/A	Radiation (03CH11-HY)
EMI Test Receiver	Keysight	N9038A(MXE)	MY54130085	20MHz~8.4GHz	Nov. 01, 2019	Mar. 25, 2020~ Apr. 26, 2020	Oct. 31, 2020	Radiation (03CH11-HY)
Software	Audix	E3 6.2009-8-24	RK-001053	N/A	N/A	Mar. 25, 2020~ Apr. 26, 2020	N/A	Radiation (03CH11-HY)
Hygrometer	TECPEL	DTN-303B	TP140325	N/A	Nov. 07, 2019	Mar. 25, 2020~ Apr. 26, 2020	Nov. 06, 2020	Radiation (03CH11-HY)
Hygrometer	TECPEL	DTN-303B	TP161237	N/A	Oct. 25, 2019	Mar. 25, 2020~ Apr. 26, 2020	Oct. 24, 2020	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY9837/4PE	9kHz-30MHz	Mar. 12, 2020	Mar. 25, 2020~ Apr. 26, 2020	Mar. 11, 2021	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	MY2859/2	30MHz-40GHz	Mar. 12, 2020	Mar. 25, 2020~ Apr. 26, 2020	Mar. 11, 2021	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY9837/4PE	30M-18G	Mar. 12, 2020	Mar. 25, 2020~ Apr. 26, 2020	Mar. 11, 2021	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	MY4274/2	30MHz-40GHz	Mar. 12, 2020	Mar. 25, 2020~ Apr. 26, 2020	Mar. 11, 2021	Radiation (03CH11-HY)
Signal Generator	Rohde & Schwarz	SMF100A	101107	100kHz~40GHz	Aug. 27, 2019	Mar. 25, 2020~ Apr. 26, 2020	Aug. 26, 2020	Radiation (03CH11-HY)



Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Base Station (Measure)	Anritsu	MT8821C	6262025341	GSM / GPRS / WCDMA / LTE FDD/TDD with 44) / LTE-3CC DLCA,2CC ULCA	Oct. 24, 2019	Mar. 20, 2020~ Apr. 01, 2020	Oct. 23, 2020	Conducted (TH05-HY)
Spectrum Analyzer	Rohde & Schwarz	FSV30	100895	10Hz~30GHz	Apr. 24, 2019	Mar. 20, 2020~ Apr. 01, 2020	Apr. 23, 2020	Conducted (TH05-HY)
Temperature Chamber	ESPEC	SH-641	92013720	-40℃~90℃	Sep. 02, 2019	Mar. 20, 2020~ Apr. 01, 2020	Sep. 01, 2020	Conducted (TH05-HY)
Programmable Power Supply	GW Instek	PSS-2005	EL890094	1V~20V 0.5A~5A	Oct. 09, 2019	Mar. 20, 2020~ Apr. 01, 2020	Oct. 08, 2020	Conducted (TH05-HY)
Coupler	Warison	20dB 20W SMA Directional Coupler	WRTA4WAM 2B2	0.4-26.5GHz	Jan. 23, 2020	Mar. 20, 2020~ Apr. 01, 2020	Jan. 22, 2021	Conducted (TH05-HY)
Coupler	Warison	20dB 25W SMA Directional Coupler	#A	1-18GHz	Jan. 13, 2020	Mar. 20, 2020~ Apr. 01, 2020	Jan. 12, 2021	Conducted (TH05-HY)

6 Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	3.09
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Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	3.44
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Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	3.95
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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	24.30	24.40	24.42
20	1	49		24.29	24.35	24.39
20	1	99		24.29	24.05	22.83
20	50	0		23.39	23.49	23.50
20	50	24		23.38	23.48	23.44
20	50	50		23.38	23.41	23.43
20	100	0		23.30	23.46	23.49
20	1	0	16-QAM	23.44	23.48	23.43
20	1	49		23.49	23.47	23.46
20	1	99		23.43	23.41	22.21
20	50	0		22.48	22.43	22.48
20	50	24		22.48	22.49	22.48
20	50	50		22.50	22.44	22.44
20	100	0		22.42	22.42	22.40
20	1	0	64-QAM	22.42	22.47	22.46
20	1	49		22.44	22.40	22.44
20	1	99		22.49	22.45	21.28
20	50	0		21.41	21.40	21.44
20	50	24		21.48	21.41	21.40
20	50	50		21.41	21.46	21.46
20	100	0		21.44	21.46	21.40
15	1	0	QPSK	24.15	24.20	24.25
15	1	37		24.12	24.23	24.25
15	1	74		24.20	23.90	22.83
15	36	0		23.36	23.32	23.31
15	36	20		23.25	23.33	23.29
15	36	39		23.34	23.34	23.34
15	75	0		23.10	23.43	23.31
15	1	0	16-QAM	23.29	23.42	23.26
15	1	37		23.48	23.28	23.31
15	1	74		23.42	23.36	22.12
15	36	0		22.37	22.37	22.39
15	36	20		22.28	22.31	22.30
15	36	39		22.45	22.42	22.36
15	75	0		22.27	22.29	22.30
15	1	0	64-QAM	22.25	22.27	22.39
15	1	37		22.29	22.20	22.40
15	1	74		22.48	22.43	21.23
15	36	0		21.30	21.33	21.42
15	36	20		21.38	21.25	21.39
15	36	39		21.32	21.29	21.37
15	75	0		21.42	21.33	21.30



LTE Band 2 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	0	QPSK	24.24	24.36	24.31
10	1	25		24.19	24.18	24.26
10	1	49		24.27	24.02	22.81
10	25	0		23.34	23.36	23.41
10	25	12		23.19	23.38	23.39
10	25	25		23.29	23.37	23.29
10	50	0		23.17	23.36	23.33
10	1	0	16-QAM	23.26	23.47	23.40
10	1	25		23.40	23.32	23.40
10	1	49		23.37	23.24	22.17
10	25	0		22.39	22.25	22.40
10	25	12		22.35	22.42	22.42
10	25	25		22.48	22.36	22.25
10	50	0		22.29	22.29	22.33
10	1	0	64-QAM	22.23	22.42	22.39
10	1	25		22.26	22.24	22.33
10	1	49		22.46	22.27	21.19
10	25	0		21.23	21.20	21.38
10	25	12		21.43	21.35	21.28
10	25	25		21.27	21.29	21.41
10	50	0		21.26	21.34	21.34
5	1	0	QPSK	24.16	24.33	24.30
5	1	12		24.17	24.24	24.29
5	1	24		24.25	23.96	22.75
5	12	0		23.30	23.46	23.36
5	12	7		23.18	23.31	23.35
5	12	13		23.31	23.26	23.29
5	25	0		23.22	23.43	23.29
5	1	0	16-QAM	23.42	23.44	23.40
5	1	12		23.40	23.29	23.42
5	1	24		23.28	23.29	22.21
5	12	0		22.45	22.36	22.48
5	12	7		22.28	22.34	22.38
5	12	13		22.46	22.26	22.32
5	25	0		22.39	22.29	22.27
5	1	0	64-QAM	22.29	22.37	22.40
5	1	12		22.29	22.37	22.37
5	1	24		22.36	22.45	21.23
5	12	0		21.30	21.26	21.37
5	12	7		21.36	21.27	21.21
5	12	13		21.34	21.39	21.34
5	25	0		21.33	21.35	21.25



LTE Band 2 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
3	1	0	QPSK	24.10	24.38	24.27
3	1	8		24.13	24.33	24.34
3	1	14		24.19	23.98	22.74
3	8	0		23.38	23.44	23.44
3	8	4		23.23	23.31	23.39
3	8	7		23.25	23.25	23.28
3	15	0		23.14	23.41	23.42
3	1	0	16-QAM	23.27	23.45	23.25
3	1	8		23.34	23.35	23.35
3	1	14		23.40	23.31	22.21
3	8	0		22.30	22.38	22.37
3	8	4		22.30	22.34	22.34
3	8	7		22.42	22.26	22.41
3	15	0		22.26	22.27	22.28
3	1	0	64-QAM	22.24	22.46	22.42
3	1	8		22.43	22.24	22.32
3	1	14		22.30	22.30	21.19
3	8	0		21.26	21.31	21.24
3	8	4		21.28	21.25	21.33
3	8	7		21.22	21.34	21.29
3	15	0		21.35	21.41	21.36
1.4	1	0	QPSK	24.24	24.26	24.36
1.4	1	3		24.09	24.20	24.35
1.4	1	5		24.15	24.00	22.76
1.4	3	0		23.38	23.43	23.41
1.4	3	1		23.28	23.38	23.28
1.4	3	3		23.24	23.24	23.25
1.4	6	0		23.27	23.35	23.35
1.4	1	0	16-QAM	23.41	23.48	23.43
1.4	1	3		23.39	23.39	23.42
1.4	1	5		23.33	23.24	22.17
1.4	3	0		22.34	22.32	22.48
1.4	3	1		22.28	22.37	22.40
1.4	3	3		22.46	22.28	22.37
1.4	6	0		22.24	22.23	22.21
1.4	1	0	64-QAM	22.24	22.27	22.45
1.4	1	3		22.44	22.34	22.36
1.4	1	5		22.45	22.39	21.14
1.4	3	0		21.39	21.22	21.43
1.4	3	1		21.37	21.24	21.35
1.4	3	3		21.25	21.45	21.35
1.4	6	0		21.30	21.44	21.25



LTE Band 25 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
20	1	0	QPSK	24.06	24.15	24.24
20	1	49		24.05	24.13	24.23
20	1	99		23.91	24.14	24.23
20	50	0		23.13	23.13	23.30
20	50	24		23.11	23.12	23.24
20	50	50		23.03	23.12	23.29
20	100	0		23.08	23.07	23.21
20	1	0	16-QAM	23.31	23.41	23.46
20	1	49		23.35	23.44	23.48
20	1	99		23.23	23.39	23.46
20	50	0		22.24	22.21	22.33
20	50	24		22.23	22.23	22.32
20	50	50		22.15	22.22	22.32
20	100	0		22.19	22.18	22.25
20	1	0	64-QAM	22.25	22.38	22.42
20	1	49		22.28	22.43	22.46
20	1	99		22.19	22.37	22.30
20	50	0		21.24	21.24	21.32
20	50	24		21.24	21.23	21.34
20	50	50		21.15	21.23	21.35
20	100	0		21.20	21.19	21.30
15	1	0	QPSK	24.00	24.01	24.10
15	1	37		24.03	24.02	24.18
15	1	74		23.84	23.96	24.05
15	36	0		23.12	22.96	23.17
15	36	20		22.91	23.00	23.24
15	36	39		23.02	23.10	23.27
15	75	0		22.92	22.98	23.16
15	1	0	16-QAM	23.16	23.40	23.27
15	1	37		23.35	23.27	23.31
15	1	74		23.21	23.30	23.43
15	36	0		22.04	22.10	22.23
15	36	20		22.07	22.17	22.26
15	36	39		22.06	22.15	22.29
15	75	0		22.11	22.03	22.12
15	1	0	64-QAM	22.22	22.22	22.31
15	1	37		22.09	22.25	22.45
15	1	74		22.11	22.21	22.26
15	36	0		21.17	21.18	21.22
15	36	20		21.16	21.04	21.24
15	36	39		21.06	21.07	21.20
15	75	0		21.09	21.12	21.23



LTE Band 25 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	0	QPSK	23.85	23.93	24.11
10	1	25		24.04	24.06	24.03
10	1	49		23.83	23.98	24.08
10	25	0		23.06	23.05	23.10
10	25	12		22.94	23.12	23.05
10	25	25		22.94	22.98	23.25
10	50	0		22.96	23.06	23.10
10	1	0	16-QAM	23.11	23.40	23.42
10	1	25		23.29	23.40	23.44
10	1	49		23.23	23.35	23.29
10	25	0		22.10	22.06	22.17
10	25	12		22.06	22.17	22.30
10	25	25		21.99	22.14	22.26
10	50	0		22.01	22.17	22.08
10	1	0	64-QAM	22.19	22.28	22.34
10	1	25		22.20	22.31	22.30
10	1	49		22.11	22.19	22.16
10	25	0		21.14	21.11	21.23
10	25	12		21.17	21.13	21.16
10	25	25		21.11	21.06	21.30
10	50	0		21.12	21.04	21.17
5	1	0	QPSK	23.99	24.02	24.15
5	1	12		23.91	24.07	24.19
5	1	24		23.91	24.12	24.16
5	12	0		23.07	22.96	23.21
5	12	7		22.97	23.10	23.21
5	12	13		22.87	22.93	23.29
5	25	0		22.92	22.98	23.07
5	1	0	16-QAM	23.17	23.29	23.34
5	1	12		23.16	23.29	23.32
5	1	24		23.05	23.28	23.27
5	12	0		22.20	22.06	22.20
5	12	7		22.23	22.11	22.24
5	12	13		22.04	22.20	22.23
5	25	0		21.99	21.99	22.25
5	1	0	64-QAM	22.17	22.36	22.29
5	1	12		22.24	22.29	22.44
5	1	24		22.19	22.17	22.28
5	12	0		21.13	21.07	21.18
5	12	7		21.09	21.20	21.22
5	12	13		21.08	21.10	21.35
5	25	0		21.11	21.05	21.19



LTE Band 25 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
3	1	0	QPSK	23.87	24.11	24.16
3	1	8		23.98	23.99	24.20
3	1	14		23.89	24.14	24.07
3	8	0		23.11	23.04	23.11
3	8	4		23.10	22.92	23.08
3	8	7		22.98	22.99	23.23
3	15	0		22.94	22.99	23.17
3	1	0	16-QAM	23.24	23.34	23.26
3	1	8		23.29	23.37	23.44
3	1	14		23.16	23.35	23.33
3	8	0		22.19	22.19	22.15
3	8	4		22.15	22.21	22.23
3	8	7		22.11	22.12	22.14
3	15	0		22.19	22.08	22.05
3	1	0	64-QAM	22.19	22.32	22.32
3	1	8		22.24	22.37	22.26
3	1	14		21.99	22.18	22.10
3	8	0		21.09	21.16	21.28
3	8	4		21.19	21.19	21.24
3	8	7		21.15	21.15	21.30
3	15	0		21.05	21.02	21.11
1.4	1	0	QPSK	23.85	23.94	24.21
1.4	1	3		23.92	24.07	24.21
1.4	1	5		23.84	24.00	24.11
1.4	3	0		23.92	23.97	24.16
1.4	3	1		23.97	24.03	24.17
1.4	3	3		23.89	24.09	24.19
1.4	6	0		22.91	22.98	23.22
1.4	1	0	16-QAM	23.12	23.21	23.20
1.4	1	3		23.17	23.37	23.30
1.4	1	5		23.08	23.30	23.21
1.4	3	0		22.94	23.06	23.10
1.4	3	1		22.97	23.08	23.15
1.4	3	3		22.93	23.11	23.09
1.4	6	0		22.08	22.14	22.31
1.4	1	0	64-QAM	22.10	22.19	22.21
1.4	1	3		22.15	22.33	22.28
1.4	1	5		22.08	22.28	22.17
1.4	3	0		22.10	22.20	22.27
1.4	3	1		22.16	22.26	22.31
1.4	3	3		22.11	22.29	22.26
1.4	6	0		21.03	21.09	21.23



LTE Band 4 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
20	1	0	QPSK	24.47	24.45	24.48
20	1	49		24.31	24.33	24.44
20	1	99		24.20	24.10	24.34
20	50	0		23.39	23.38	23.40
20	50	24		23.42	23.38	23.42
20	50	50		23.37	23.36	23.45
20	100	0		23.37	23.38	23.39
20	1	0	16-QAM	23.50	23.49	23.35
20	1	49		23.42	23.43	23.47
20	1	99		23.46	23.15	23.45
20	50	0		22.48	22.49	22.42
20	50	24		22.49	22.45	22.41
20	50	50		22.47	22.46	22.44
20	100	0		22.43	22.47	22.47
20	1	0	64-QAM	22.41	22.49	22.32
20	1	49		22.44	22.50	22.50
20	1	99		22.46	22.12	22.43
20	50	0		21.50	21.42	21.43
20	50	24		21.49	21.44	21.44
20	50	50		21.48	21.50	21.47
20	100	0		21.50	21.44	21.50
15	1	0	QPSK	24.39	24.45	24.43
15	1	37		24.20	24.30	24.41
15	1	74		24.19	24.02	24.30
15	36	0		23.21	23.21	23.27
15	36	20		23.37	23.38	23.42
15	36	39		23.21	23.16	23.34
15	75	0		23.35	23.35	23.30
15	1	0	16-QAM	23.49	23.33	23.28
15	1	37		23.42	23.39	23.44
15	1	74		23.26	22.99	23.33
15	36	0		22.42	22.35	22.31
15	36	20		22.46	22.40	22.22
15	36	39		22.31	22.41	22.27
15	75	0		22.24	22.38	22.28
15	1	0	64-QAM	22.26	22.46	22.25
15	1	37		22.33	22.46	22.31
15	1	74		22.28	21.93	22.38
15	36	0		21.32	21.42	21.30
15	36	20		21.48	21.28	21.33
15	36	39		21.43	21.34	21.46
15	75	0		21.42	21.37	21.41



LTE Band 4 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	0	QPSK	24.28	24.38	24.36
10	1	25		24.21	24.33	24.29
10	1	49		24.04	24.08	24.17
10	25	0		23.24	23.22	23.33
10	25	12		23.22	23.22	23.39
10	25	25		23.25	23.23	23.27
10	50	0		23.27	23.18	23.39
10	1	0	16-QAM	23.44	23.43	23.19
10	1	25		23.36	23.39	23.28
10	1	49		23.37	23.14	23.36
10	25	0		22.44	22.41	22.41
10	25	12		22.46	22.41	22.25
10	25	25		22.35	22.29	22.42
10	50	0		22.31	22.35	22.33
10	1	0	64-QAM	22.27	22.37	22.27
10	1	25		22.28	22.35	22.36
10	1	49		22.34	22.11	22.27
10	25	0		21.38	21.22	21.28
10	25	12		21.30	21.25	21.28
10	25	25		21.28	21.37	21.34
10	50	0		21.33	21.30	21.43
5	1	0	QPSK	24.31	24.44	24.46
5	1	12		24.31	24.14	24.26
5	1	24		24.04	24.07	24.14
5	12	0		23.19	23.34	23.36
5	12	7		23.32	23.25	23.25
5	12	13		23.21	23.24	23.36
5	25	0		23.24	23.32	23.20
5	1	0	16-QAM	23.47	23.33	23.16
5	1	12		23.29	23.31	23.30
5	1	24		23.34	23.06	23.43
5	12	0		22.46	22.35	22.42
5	12	7		22.48	22.35	22.26
5	12	13		22.32	22.32	22.41
5	25	0		22.33	22.33	22.37
5	1	0	64-QAM	22.29	22.42	22.18
5	1	12		22.41	22.50	22.43
5	1	24		22.30	21.98	22.33
5	12	0		21.49	21.38	21.36
5	12	7		21.43	21.38	21.41
5	12	13		21.41	21.48	21.30
5	25	0		21.36	21.31	21.45



LTE Band 4 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
3	1	0	QPSK	24.41	24.32	24.45
3	1	8		24.31	24.17	24.43
3	1	14		24.10	23.94	24.24
3	8	0		23.25	23.30	23.38
3	8	4		23.41	23.25	23.38
3	8	7		23.28	23.33	23.39
3	15	0		23.36	23.36	23.26
3	1	0	16-QAM	23.32	23.38	23.18
3	1	8		23.33	23.33	23.47
3	1	14		23.38	22.96	23.35
3	8	0		22.37	22.41	22.31
3	8	4		22.40	22.41	22.30
3	8	7		22.42	22.36	22.28
3	15	0		22.37	22.32	22.33
3	1	0	64-QAM	22.23	22.34	22.31
3	1	8		22.32	22.47	22.37
3	1	14		22.34	21.92	22.24
3	8	0		21.42	21.23	21.40
3	8	4		21.38	21.24	21.29
3	8	7		21.46	21.50	21.33
3	15	0		21.49	21.38	21.31
1.4	1	0	QPSK	24.41	24.44	24.36
1.4	1	3		24.22	24.18	24.44
1.4	1	5		24.00	23.97	24.20
1.4	3	0		23.33	23.32	23.33
1.4	3	1		23.32	23.21	23.38
1.4	3	3		23.33	23.33	23.35
1.4	6	0		23.26	23.19	23.37
1.4	1	0	16-QAM	23.36	23.44	23.25
1.4	1	3		23.39	23.30	23.37
1.4	1	5		23.31	23.15	23.44
1.4	3	0		22.37	22.30	22.36
1.4	3	1		22.32	22.27	22.36
1.4	3	3		22.47	22.26	22.32
1.4	6	0		22.29	22.41	22.43
1.4	1	0	64-QAM	22.29	22.48	22.15
1.4	1	3		22.28	22.33	22.36
1.4	1	5		22.34	22.02	22.26
1.4	3	0		21.32	21.29	21.40
1.4	3	1		21.45	21.39	21.43
1.4	3	3		21.28	21.30	21.29
1.4	6	0		21.40	21.44	21.30



LTE Band 5 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	0	QPSK	24.91	24.85	24.84
10	1	25		24.71	24.84	24.83
10	1	49		24.89	24.77	24.74
10	25	0		23.83	23.93	23.76
10	25	12		23.93	23.92	23.87
10	25	25		23.82	23.86	23.79
10	50	0		23.85	23.89	23.77
10	1	0	16-QAM	23.95	23.90	23.99
10	1	25		23.93	23.97	23.94
10	1	49		23.94	23.93	23.98
10	25	0		22.91	22.99	22.91
10	25	12		22.98	22.99	22.98
10	25	25		22.95	22.91	22.94
10	50	0		22.98	22.95	22.88
10	1	0	64-QAM	22.87	22.97	22.95
10	1	25		22.97	22.93	22.94
10	1	49		22.98	22.94	23.00
10	25	0		21.89	22.00	21.87
10	25	12		22.00	21.93	21.99
10	25	25		21.98	21.97	21.92
10	50	0		21.95	21.98	21.84
5	1	0	QPSK	24.86	24.78	24.82
5	1	12		24.63	24.72	24.70
5	1	24		24.82	24.57	24.57
5	12	0		23.69	23.90	23.56
5	12	7		23.82	23.87	23.78
5	12	13		23.65	23.66	23.70
5	25	0		23.74	23.73	23.66
5	1	0	16-QAM	23.83	23.86	23.89
5	1	12		23.88	23.79	23.74
5	1	24		23.80	23.91	23.80
5	12	0		22.71	22.81	22.87
5	12	7		22.82	22.88	22.87
5	12	13		22.91	22.73	22.87
5	25	0		22.93	22.86	22.88
5	1	0	64-QAM	22.79	22.82	22.79
5	1	12		22.81	22.73	22.93
5	1	24		22.85	22.74	22.81
5	12	0		21.80	21.98	21.85
5	12	7		21.96	21.87	21.91
5	12	13		21.79	21.89	21.89
5	25	0		21.75	21.85	21.72



LTE Band 5 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
3	1	0	QPSK	24.78	24.76	24.67
3	1	8		24.54	24.68	24.78
3	1	14		24.88	24.74	24.64
3	8	0		23.72	23.90	23.71
3	8	4		23.80	23.88	23.69
3	8	7		23.80	23.76	23.74
3	15	0		23.76	23.70	23.64
3	1	0	16-QAM	23.89	23.74	23.87
3	1	8		23.92	23.84	23.93
3	1	14		23.86	23.73	23.89
3	8	0		22.74	22.87	22.74
3	8	4		22.98	22.95	22.93
3	8	7		22.90	22.84	22.90
3	15	0		22.78	22.75	22.87
3	1	0	64-QAM	22.82	22.86	22.79
3	1	8		22.86	22.89	22.74
3	1	14		22.94	22.80	22.84
3	8	0		21.84	21.86	21.73
3	8	4		21.81	21.85	21.99
3	8	7		21.93	21.95	21.92
3	15	0		21.91	21.81	21.72
1.4	1	0	QPSK	24.85	24.65	24.79
1.4	1	3		24.56	24.64	24.63
1.4	1	5		24.71	24.75	24.72
1.4	3	0		23.78	23.75	23.66
1.4	3	1		23.82	23.80	23.84
1.4	3	3		23.72	23.69	23.75
1.4	6	0		23.76	23.76	23.65
1.4	1	0	16-QAM	23.80	23.83	23.83
1.4	1	3		23.74	23.89	23.78
1.4	1	5		23.93	23.88	23.96
1.4	3	0		22.78	22.81	22.87
1.4	3	1		22.89	22.99	22.90
1.4	3	3		22.88	22.90	22.74
1.4	6	0		22.91	22.87	22.82
1.4	1	0	64-QAM	22.85	22.85	22.88
1.4	1	3		22.93	22.74	22.82
1.4	1	5		22.89	22.81	22.97
1.4	3	0		21.85	21.85	21.79
1.4	3	1		21.89	21.75	21.84
1.4	3	3		21.87	21.94	21.89
1.4	6	0		21.79	21.84	21.82



LTE Band 7 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
20	1	0	QPSK	23.38	23.21	23.09
20	1	49		23.32	23.11	22.99
20	1	99		23.26	23.20	23.08
20	50	0		22.38	22.19	22.08
20	50	24		22.37	22.17	22.06
20	50	50		22.31	22.18	22.07
20	100	0		22.28	22.16	22.07
20	1	0	16-QAM	22.45	22.44	22.35
20	1	49		22.46	22.48	22.35
20	1	99		22.40	22.43	22.40
20	50	0		21.45	21.30	21.17
20	50	24		21.48	21.28	21.18
20	50	50		21.40	21.27	21.18
20	100	0		21.37	21.28	21.15
20	1	0	64-QAM	21.43	21.39	21.29
20	1	49		21.40	21.39	21.29
20	1	99		21.44	21.41	21.36
20	50	0		20.50	20.31	20.18
20	50	24		20.45	20.31	20.22
20	50	50		20.44	20.31	20.19
20	100	0		20.40	20.33	20.18
15	1	0	QPSK	23.32	23.05	23.06
15	1	37		23.16	22.99	22.92
15	1	74		23.12	23.04	22.96
15	36	0		22.36	22.13	22.02
15	36	20		22.19	22.08	21.88
15	36	39		22.21	22.03	22.01
15	75	0		22.08	22.08	22.01
15	1	0	16-QAM	22.40	22.43	22.24
15	1	37		22.38	22.37	22.25
15	1	74		22.37	22.40	22.39
15	36	0		21.25	21.19	20.99
15	36	20		21.29	21.21	20.98
15	36	39		21.40	21.20	21.14
15	75	0		21.28	21.26	21.03
15	1	0	64-QAM	21.29	21.37	21.24
15	1	37		21.27	21.28	21.22
15	1	74		21.35	21.26	21.25
15	36	0		20.42	20.31	20.04
15	36	20		20.41	20.17	20.06
15	36	39		20.40	20.30	20.08
15	75	0		20.25	20.15	20.02



LTE Band 7 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	0	QPSK	23.30	22.96	22.98
10	1	25		23.31	23.03	22.85
10	1	49		23.19	23.13	23.08
10	25	0		22.38	22.02	22.04
10	25	12		22.26	22.11	22.06
10	25	25		22.16	22.00	22.03
10	50	0		22.17	21.97	22.02
10	1	0	16-QAM	22.45	22.24	22.15
10	1	25		22.40	22.33	22.25
10	1	49		22.29	22.41	22.24
10	25	0		21.25	21.20	21.13
10	25	12		21.38	21.08	21.12
10	25	25		21.39	21.25	21.16
10	50	0		21.28	21.19	21.06
10	1	0	64-QAM	21.32	21.23	21.13
10	1	25		21.33	21.20	21.16
10	1	49		21.38	21.34	21.29
10	25	0		20.40	20.16	20.13
10	25	12		20.28	20.17	20.21
10	25	25		20.26	20.21	20.14
10	50	0		20.37	20.24	20.07
5	1	0	QPSK	23.18	23.00	23.09
5	1	12		23.26	22.99	22.99
5	1	24		23.16	23.01	23.04
5	12	0		22.31	22.17	21.95
5	12	7		22.33	22.05	22.01
5	12	13		22.29	22.17	21.91
5	25	0		22.28	22.12	21.93
5	1	0	16-QAM	22.44	22.38	22.32
5	1	12		22.30	22.37	22.22
5	1	24		22.30	22.26	22.36
5	12	0		21.39	21.25	21.02
5	12	7		21.32	21.13	21.16
5	12	13		21.28	21.07	21.07
5	25	0		21.17	21.24	21.11
5	1	0	64-QAM	21.28	21.32	21.12
5	1	12		21.32	21.32	21.13
5	1	24		21.44	21.34	21.18
5	12	0		20.36	20.14	20.14
5	12	7		20.28	20.27	20.11
5	12	13		20.24	20.21	20.15
5	25	0		20.29	20.14	19.99



LTE Band 12 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	0	QPSK	24.12	24.78	24.44
10	1	25		24.65	24.50	24.77
10	1	49		24.31	24.75	24.69
10	25	0		23.63	23.79	23.76
10	25	12		23.75	23.77	23.73
10	25	25		23.80	23.74	23.82
10	50	0		23.72	23.77	23.73
10	1	0	16-QAM	23.49	23.77	23.82
10	1	25		23.92	23.91	23.97
10	1	49		23.69	23.97	23.96
10	25	0		22.69	22.86	22.83
10	25	12		22.83	22.88	22.86
10	25	25		22.87	22.86	22.87
10	50	0		22.83	22.84	22.80
10	1	0	64-QAM	22.50	22.78	22.84
10	1	25		22.89	22.88	23.00
10	1	49		22.67	22.91	22.94
10	25	0		21.73	21.87	21.82
10	25	12		21.87	21.90	21.84
10	25	25		21.92	21.84	21.89
10	50	0		21.83	21.88	21.85
5	1	0	QPSK	24.06	24.65	24.34
5	1	12		24.57	24.45	24.63
5	1	24		24.11	24.56	24.61
5	12	0		23.57	23.70	23.68
5	12	7		23.63	23.64	23.73
5	12	13		23.79	23.61	23.79
5	25	0		23.63	23.64	23.73
5	1	0	16-QAM	23.41	23.75	23.79
5	1	12		23.84	23.82	23.88
5	1	24		23.53	23.77	23.80
5	12	0		22.64	22.81	22.78
5	12	7		22.68	22.74	22.78
5	12	13		22.79	22.67	22.87
5	25	0		22.71	22.78	22.66
5	1	0	64-QAM	22.34	22.63	22.73
5	1	12		22.73	22.75	22.88
5	1	24		22.52	22.84	22.79
5	12	0		21.61	21.83	21.81
5	12	7		21.78	21.80	21.64
5	12	13		21.79	21.82	21.69
5	25	0		21.73	21.71	21.75



LTE Band 12 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
3	1	0	QPSK	23.99	24.66	24.26
3	1	8		24.47	24.32	24.60
3	1	14		24.29	24.70	24.51
3	8	0		23.56	23.74	23.71
3	8	4		23.56	23.72	23.62
3	8	7		23.67	23.73	23.74
3	15	0		23.59	23.59	23.62
3	1	0	16-QAM	23.37	23.57	23.70
3	1	8		23.80	23.85	23.77
3	1	14		23.57	23.92	23.88
3	8	0		22.68	22.74	22.76
3	8	4		22.78	22.77	22.81
3	8	7		22.77	22.85	22.83
3	15	0		22.79	22.67	22.74
3	1	0	64-QAM	22.38	22.76	22.78
3	1	8		22.82	22.68	22.82
3	1	14		22.66	22.90	22.91
3	8	0		21.73	21.78	21.82
3	8	4		21.73	21.75	21.74
3	8	7		21.86	21.68	21.85
3	15	0		21.63	21.87	21.68
1.4	1	0	QPSK	24.07	24.58	24.39
1.4	1	3		24.48	24.43	24.77
1.4	1	5		24.15	24.63	24.49
1.4	3	0		23.43	23.66	23.76
1.4	3	1		23.75	23.62	23.68
1.4	3	3		23.66	23.69	23.65
1.4	6	0		23.66	23.62	23.59
1.4	1	0	16-QAM	23.44	23.66	23.81
1.4	1	3		23.77	23.76	23.89
1.4	1	5		23.55	23.78	23.86
1.4	3	0		22.52	22.70	22.66
1.4	3	1		22.63	22.68	22.81
1.4	3	3		22.72	22.67	22.81
1.4	6	0		22.64	22.73	22.73
1.4	1	0	64-QAM	22.37	22.67	22.66
1.4	1	3		22.85	22.76	22.86
1.4	1	5		22.66	22.77	22.75
1.4	3	0		21.61	21.76	21.66
1.4	3	1		21.81	21.74	21.71
1.4	3	3		21.72	21.64	21.80
1.4	6	0		21.75	21.70	21.70



LTE Band 13 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	0	QPSK	-	24.39	-
10	1	25			24.22	
10	1	49			24.14	
10	25	0			23.32	
10	25	12			23.31	
10	25	25			23.26	
10	50	0			23.29	
10	1	0	16-QAM		23.48	
10	1	25			23.44	
10	1	49			23.50	
10	25	0			22.40	
10	25	12			22.37	
10	25	25			22.34	
10	50	0			22.36	
10	1	0	64-QAM		22.48	
10	1	25			22.42	
10	1	49			22.44	
10	25	0			21.39	
10	25	12			21.41	
10	25	25			21.35	
10	50	0			21.39	
5	1	0	QPSK	24.31	24.35	24.36
5	1	12		24.22	24.14	24.04
5	1	24		24.01	23.97	24.02
5	12	0		23.19	23.32	23.19
5	12	7		23.23	23.18	23.25
5	12	13		23.16	23.10	23.11
5	25	0		23.27	23.12	23.28
5	1	0	16-QAM	23.40	23.47	23.40
5	1	12		23.44	23.36	23.38
5	1	24		23.40	23.41	23.42
5	12	0		22.20	22.40	22.23
5	12	7		22.31	22.25	22.26
5	12	13		22.33	22.23	22.26
5	25	0		22.35	22.30	22.36
5	1	0	64-QAM	22.29	22.48	22.28
5	1	12		22.42	22.30	22.31
5	1	24		22.42	22.28	22.42
5	12	0		21.31	21.37	21.23
5	12	7		21.40	21.31	21.36
5	12	13		21.35	21.33	21.32
5	25	0		21.38	21.32	21.32



LTE Band 17 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	0	QPSK	24.73	24.74	24.64
10	1	25		24.57	24.62	24.63
10	1	49		24.72	24.70	24.61
10	25	0		23.76	23.75	23.75
10	25	12		23.75	23.72	23.72
10	25	25		23.70	23.68	23.71
10	50	0		23.75	23.73	23.72
10	1	0	16-QAM	23.73	23.84	23.71
10	1	25		23.98	23.95	23.91
10	1	49		23.98	23.94	23.96
10	25	0		22.84	22.83	22.84
10	25	12		22.83	22.86	22.85
10	25	25		22.80	22.77	22.78
10	50	0		22.81	22.80	22.80
10	1	0	64-QAM	22.71	22.79	22.69
10	1	25		22.94	22.94	22.87
10	1	49		22.97	22.95	22.92
10	25	0		21.82	21.82	21.80
10	25	12		21.88	21.83	21.82
10	25	25		21.81	21.81	21.77
10	50	0		21.86	21.83	21.83
5	1	0	QPSK	24.72	24.66	24.50
5	1	12		24.37	24.51	24.58
5	1	24		24.67	24.54	24.50
5	12	0		23.67	23.74	23.61
5	12	7		23.66	23.69	23.55
5	12	13		23.58	23.58	23.62
5	25	0		23.67	23.58	23.56
5	1	0	16-QAM	23.65	23.78	23.51
5	1	12		23.93	23.78	23.87
5	1	24		23.90	23.86	23.96
5	12	0		22.73	22.71	22.79
5	12	7		22.76	22.75	22.68
5	12	13		22.69	22.65	22.60
5	25	0		22.69	22.67	22.61
5	1	0	64-QAM	22.69	22.67	22.50
5	1	12		22.76	22.74	22.80
5	1	24		22.95	22.82	22.87
5	12	0		21.64	21.73	21.64
5	12	7		21.79	21.77	21.79
5	12	13		21.78	21.76	21.64
5	25	0		21.74	21.78	21.83



LTE Band 26 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
15	1	0	QPSK	24.19	24.22	24.19
15	1	37		24.15	24.20	24.09
15	1	74		24.18	24.13	24.00
15	36	0		23.28	23.32	23.22
15	36	20		23.34	23.31	23.21
15	36	39		23.27	23.25	23.14
15	75	0		23.27	23.28	23.14
15	1	0	16-QAM	23.44	23.55	23.54
15	1	37		23.50	23.59	23.42
15	1	74		23.53	23.50	23.29
15	36	0		22.31	22.41	22.26
15	36	20		22.39	22.38	22.28
15	36	39		22.32	22.32	22.23
15	75	0		22.38	22.35	22.27
15	1	0	64-QAM	22.40	22.51	22.47
15	1	37		22.43	22.50	22.39
15	1	74		22.44	22.43	22.27
15	36	0		21.36	21.43	21.32
15	36	20		21.44	21.44	21.28
15	36	39		21.39	21.39	21.22
15	75	0		21.37	21.39	21.24
10	1	0	QPSK	24.08	24.15	24.01
10	1	25		23.96	24.05	23.89
10	1	49		24.12	24.11	23.97
10	25	0		23.20	23.27	23.02
10	25	12		23.30	23.29	23.07
10	25	25		23.17	23.24	23.01
10	50	0		23.26	23.17	23.02
10	1	0	16-QAM	23.37	23.46	23.52
10	1	25		23.40	23.59	23.23
10	1	49		23.42	23.41	23.18
10	25	0		22.19	22.21	22.23
10	25	12		22.27	22.21	22.25
10	25	25		22.17	22.32	22.18
10	50	0		22.33	22.28	22.22
10	1	0	64-QAM	22.31	22.49	22.47
10	1	25		22.39	22.44	22.25
10	1	49		22.29	22.24	22.22
10	25	0		21.28	21.37	21.30
10	25	12		21.37	21.29	21.23
10	25	25		21.22	21.32	21.06
10	50	0		21.25	21.29	21.20



LTE Band 26 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	24.11	24.08	24.10
5	1	12		24.11	24.04	24.02
5	1	24		24.13	24.09	23.88
5	12	0		23.10	23.09	23.07
5	12	7		23.23	23.26	23.21
5	12	13		23.08	23.17	23.02
5	25	0		23.12	23.14	22.96
5	1	0	16-QAM	23.26	23.38	23.47
5	1	12		23.41	23.53	23.29
5	1	24		23.50	23.43	23.21
5	12	0		22.11	22.21	22.17
5	12	7		22.19	22.23	22.11
5	12	13		22.32	22.31	22.08
5	25	0		22.34	22.20	22.18
5	1	0	64-QAM	22.25	22.41	22.30
5	1	12		22.41	22.46	22.30
5	1	24		22.28	22.26	22.24
5	12	0		21.19	21.23	21.16
5	12	7		21.36	21.37	21.24
5	12	13		21.22	21.23	21.10
5	25	0		21.35	21.39	21.24
3	1	0	QPSK	23.93	24.19	24.11
3	1	8		24.02	24.01	24.02
3	1	14		24.05	24.05	23.97
3	8	0		23.14	23.25	23.05
3	8	4		23.34	23.25	23.09
3	8	7		23.22	23.13	22.96
3	15	0		23.08	23.23	23.01
3	1	0	16-QAM	23.28	23.51	23.50
3	1	8		23.46	23.47	23.22
3	1	14		23.48	23.45	23.20
3	8	0		22.21	22.41	22.07
3	8	4		22.36	22.24	22.18
3	8	7		22.28	22.27	22.14
3	15	0		22.33	22.31	22.17
3	1	0	64-QAM	22.29	22.50	22.42
3	1	8		22.42	22.47	22.27
3	1	14		22.38	22.25	22.27
3	8	0		21.34	21.32	21.12
3	8	4		21.33	21.34	21.26
3	8	7		21.36	21.19	21.06
3	15	0		21.22	21.20	21.18



LTE Band 26 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
1.4	1	0	QPSK	23.99	24.10	23.93
1.4	1	3		24.05	24.17	24.01
1.4	1	5		23.97	24.10	23.90
1.4	3	0		24.05	24.14	23.97
1.4	3	1		24.07	24.17	24.04
1.4	3	3		24.04	24.13	23.98
1.4	6	0		23.01	23.17	23.00
1.4	1	0	16-QAM	23.31	23.42	23.23
1.4	1	3		23.39	23.54	23.27
1.4	1	5		23.27	23.45	23.17
1.4	3	0		23.12	23.23	23.01
1.4	3	1		23.16	23.28	23.08
1.4	3	3		23.11	23.24	23.01
1.4	6	0		22.18	22.31	22.16
1.4	1	0	64-QAM	22.24	22.41	22.18
1.4	1	3		22.31	22.46	22.25
1.4	1	5		22.24	22.36	22.14
1.4	3	0		22.26	22.37	22.21
1.4	3	1		22.31	22.43	22.21
1.4	3	3		22.25	22.37	22.20
1.4	6	0		21.15	21.28	21.10



LTE Band 41 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
20	1	0	QPSK	22.97	24.22	22.53
20	1	49		24.35	24.38	22.82
20	1	99		24.39	24.40	22.83
20	50	0		23.43	23.41	22.71
20	50	24		23.47	23.40	22.83
20	50	50		23.48	23.42	22.84
20	100	0		23.44	23.44	22.69
20	1	0	16-QAM	23.31	23.40	21.82
20	1	49		23.37	23.48	22.34
20	1	99		23.50	23.33	21.84
20	50	0		22.31	22.43	22.00
20	50	24		22.33	22.41	22.14
20	50	50		22.42	22.35	22.04
20	100	0		22.41	22.38	22.00
20	1	0	64-QAM	20.65	22.01	20.86
20	1	49		22.03	22.02	21.03
20	1	99		22.09	21.95	20.89
20	50	0		21.33	21.42	21.13
20	50	24		21.34	21.41	21.23
20	50	50		21.43	21.34	21.17
20	100	0		21.38	21.39	21.14
15	1	0	QPSK	22.83	24.15	22.50
15	1	37		24.30	24.22	22.73
15	1	74		24.35	24.01	22.50
15	36	0		23.24	23.33	22.57
15	36	20		23.44	23.40	22.80
15	36	39		23.41	23.25	22.69
15	75	0		23.41	23.44	22.69
15	1	0	16-QAM	23.11	23.32	21.65
15	1	37		23.24	23.30	22.14
15	1	74		23.32	23.33	21.66
15	36	0		22.28	22.30	21.88
15	36	20		22.27	22.26	22.12
15	36	39		22.27	22.24	21.96
15	75	0		22.26	22.18	21.84
15	1	0	64-QAM	21.00	21.81	20.79
15	1	37		21.84	21.91	20.89
15	1	74		21.98	21.87	20.74
15	36	0		21.19	21.25	20.93
15	36	20		21.26	21.29	21.07
15	36	39		21.34	21.23	21.17
15	75	0		21.32	21.39	20.96



LTE Band 41 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	0	QPSK	22.86	24.17	22.50
10	1	25		24.16	24.23	22.76
10	1	49		24.39	24.04	22.51
10	25	0		23.41	23.40	22.53
10	25	12		23.29	23.37	22.78
10	25	25		23.37	23.28	22.59
10	50	0		23.40	23.25	22.69
10	1	0	16-QAM	23.16	23.20	21.74
10	1	25		23.37	23.29	22.34
10	1	49		23.36	23.32	21.84
10	25	0		22.21	22.36	21.96
10	25	12		22.17	22.21	22.10
10	25	25		22.32	22.26	22.03
10	50	0		22.30	22.24	21.93
10	1	0	64-QAM	20.55	21.90	20.86
10	1	25		21.94	21.92	20.90
10	1	49		22.04	21.78	20.75
10	25	0		21.28	21.37	21.11
10	25	12		21.23	21.22	21.03
10	25	25		21.23	21.15	21.06
10	50	0		21.28	21.21	21.14
5	1	0	QPSK	22.89	24.07	22.52
5	1	12		24.22	24.30	22.79
5	1	24		24.38	24.10	22.50
5	12	0		23.42	23.37	22.55
5	12	7		23.31	23.24	22.65
5	12	13		23.33	23.25	22.59
5	25	0		23.43	23.26	22.69
5	1	0	16-QAM	23.30	23.32	21.72
5	1	12		23.35	23.48	22.19
5	1	24		23.45	23.29	21.74
5	12	0		22.22	22.42	21.87
5	12	7		22.21	22.39	22.11
5	12	13		22.33	22.25	21.97
5	25	0		22.36	22.23	21.97
5	1	0	64-QAM	20.59	21.96	20.74
5	1	12		22.01	21.92	20.97
5	1	24		21.97	21.92	20.74
5	12	0		21.24	21.31	20.96
5	12	7		21.16	21.35	21.12
5	12	13		21.24	21.15	21.05
5	25	0		21.21	21.20	20.99



LTE Band 66 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
20	1	0	QPSK	24.09	24.24	24.46
20	1	49		24.03	24.23	24.45
20	1	99		24.08	24.18	24.04
20	50	0		22.96	23.16	23.37
20	50	24		22.93	23.14	23.26
20	50	50		22.92	23.12	23.36
20	100	0		22.96	23.11	23.30
20	1	0	16-QAM	23.17	23.07	23.44
20	1	49		23.27	23.49	23.46
20	1	99		23.19	23.39	23.12
20	50	0		22.01	22.26	22.37
20	50	24		22.03	22.23	22.31
20	50	50		22.03	22.19	22.33
20	100	0		22.00	22.20	22.31
20	1	0	64-QAM	22.19	22.02	22.42
20	1	49		22.27	22.47	22.49
20	1	99		22.19	22.34	22.25
20	50	0		21.05	21.31	21.41
20	50	24		21.07	21.28	21.33
20	50	50		21.05	21.21	21.37
20	100	0		21.05	21.25	21.31
15	1	0	QPSK	23.92	24.20	24.31
15	1	37		23.88	24.13	24.32
15	1	74		23.88	24.05	24.04
15	36	0		22.79	23.04	23.29
15	36	20		22.73	23.08	23.16
15	36	39		22.89	23.11	23.23
15	75	0		22.82	23.01	23.13
15	1	0	16-QAM	23.15	22.96	23.27
15	1	37		23.15	23.44	23.29
15	1	74		23.11	23.31	23.09
15	36	0		21.94	22.25	22.37
15	36	20		21.92	22.04	22.15
15	36	39		21.97	22.12	22.19
15	75	0		21.88	22.16	22.23
15	1	0	64-QAM	22.03	21.94	22.23
15	1	37		22.11	22.34	22.39
15	1	74		22.13	22.22	22.16
15	36	0		20.92	21.19	21.40
15	36	20		20.87	21.20	21.13
15	36	39		20.95	21.14	21.33
15	75	0		20.90	21.18	21.29



LTE Band 66 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	0	QPSK	23.99	24.07	24.43
10	1	25		23.88	24.03	24.35
10	1	49		24.04	24.06	23.92
10	25	0		22.90	23.04	23.34
10	25	12		22.82	23.07	23.25
10	25	25		22.80	22.95	23.26
10	50	0		22.85	23.01	23.26
10	1	0	16-QAM	23.15	23.07	23.34
10	1	25		23.19	23.37	23.40
10	1	49		23.04	23.39	22.99
10	25	0		21.94	22.06	22.18
10	25	12		22.02	22.06	22.26
10	25	25		21.95	22.16	22.25
10	50	0		21.89	22.07	22.14
10	1	0	64-QAM	22.18	21.83	22.31
10	1	25		22.21	22.32	22.32
10	1	49		22.00	22.27	22.12
10	25	0		20.94	21.18	21.39
10	25	12		20.89	21.28	21.18
10	25	25		20.92	21.14	21.35
10	50	0		20.96	21.19	21.15
5	1	0	QPSK	23.92	24.17	24.28
5	1	12		23.85	24.11	24.30
5	1	24		23.97	24.00	23.87
5	12	0		22.96	23.13	23.17
5	12	7		22.74	22.94	23.15
5	12	13		22.76	23.00	23.21
5	25	0		22.91	23.11	23.13
5	1	0	16-QAM	23.08	22.88	23.35
5	1	12		23.14	23.31	23.30
5	1	24		23.19	23.33	23.01
5	12	0		21.97	22.19	22.33
5	12	7		22.00	22.05	22.12
5	12	13		22.00	22.06	22.13
5	25	0		21.93	22.20	22.19
5	1	0	64-QAM	22.04	21.83	22.42
5	1	12		22.09	22.35	22.40
5	1	24		22.11	22.30	22.09
5	12	0		21.00	21.26	21.23
5	12	7		20.99	21.18	21.26
5	12	13		20.85	21.07	21.20
5	25	0		20.95	21.19	21.23



LTE Band 66 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
3	1	0	QPSK	24.08	24.20	24.26
3	1	8		23.86	24.04	24.36
3	1	14		24.07	24.10	23.89
3	8	0		22.78	23.13	23.34
3	8	4		22.93	23.00	23.09
3	8	7		22.85	22.98	23.28
3	15	0		22.87	23.06	23.23
3	1	0	16-QAM	23.11	22.90	23.28
3	1	8		23.27	23.38	23.46
3	1	14		23.17	23.37	23.08
3	8	0		21.81	22.25	22.32
3	8	4		21.99	22.05	22.31
3	8	7		21.88	22.12	22.31
3	15	0		21.87	22.16	22.12
3	1	0	64-QAM	22.00	21.89	22.32
3	1	8		22.10	22.31	22.33
3	1	14		22.00	22.15	22.22
3	8	0		20.97	21.15	21.23
3	8	4		20.90	21.14	21.19
3	8	7		21.02	21.16	21.31
3	15	0		20.86	21.11	21.18
1.4	1	0	QPSK	23.95	24.11	24.43
1.4	1	3		23.94	24.10	24.44
1.4	1	5		24.00	24.14	23.94
1.4	3	0		22.81	23.10	23.22
1.4	3	1		22.74	23.04	23.17
1.4	3	3		22.86	22.98	23.17
1.4	6	0		22.90	23.01	23.19
1.4	1	0	16-QAM	23.00	22.94	23.41
1.4	1	3		23.22	23.47	23.38
1.4	1	5		23.09	23.31	23.12
1.4	3	0		21.97	22.21	22.18
1.4	3	1		21.92	22.12	22.28
1.4	3	3		21.83	22.06	22.23
1.4	6	0		21.99	22.09	22.15
1.4	1	0	64-QAM	22.06	21.86	22.28
1.4	1	3		22.23	22.36	22.42
1.4	1	5		22.10	22.14	22.12
1.4	3	0		20.88	21.20	21.21
1.4	3	1		20.91	21.14	21.16
1.4	3	3		21.05	21.13	21.19
1.4	6	0		21.04	21.05	21.11



LTE Band 2

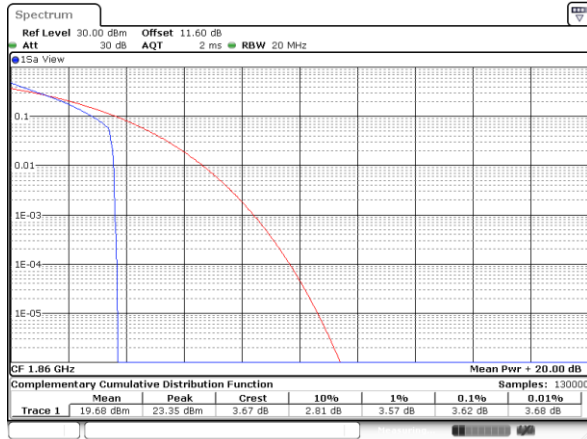
Peak-to-Average Ratio

Mode	LTE Band 2 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	3.62	4.75	4.96	6.06	PASS
Middle CH	3.59	4.67	4.87	5.94	
Highest CH	3.48	4.43	4.81	5.77	
Mode	LTE Band 2 / 20MHz				
Mod.	64QAM				Limit: 13dB
RB Size	1RB	Full RB			Result
Lowest CH	6.38	6.72	-	-	PASS
Middle CH	6.41	6.70	-	-	
Highest CH	6.09	6.43	-	-	

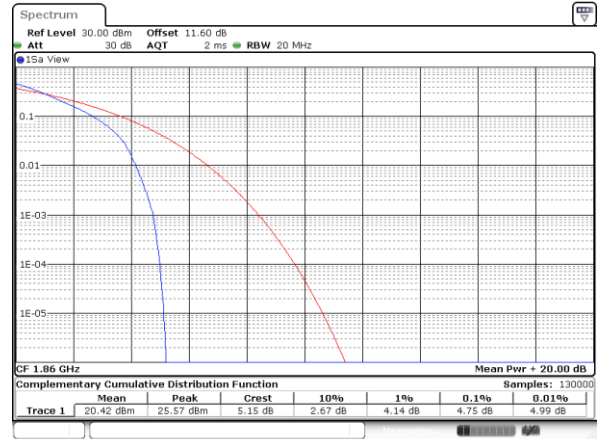


LTE Band 2 / 20MHz / QPSK

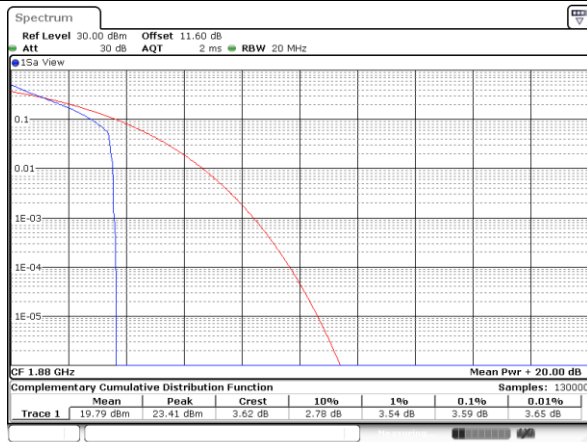
Lowest Channel / 1RB



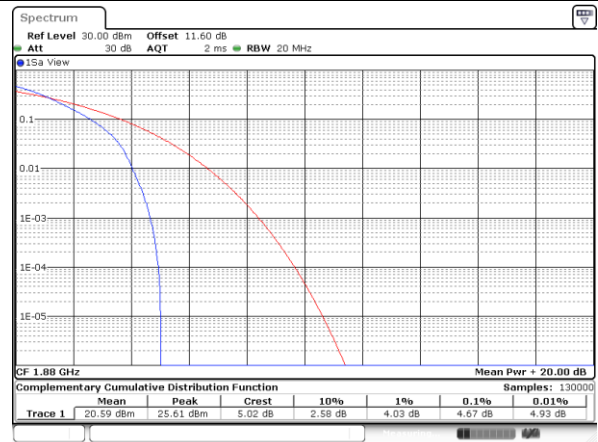
Lowest Channel / Full RB



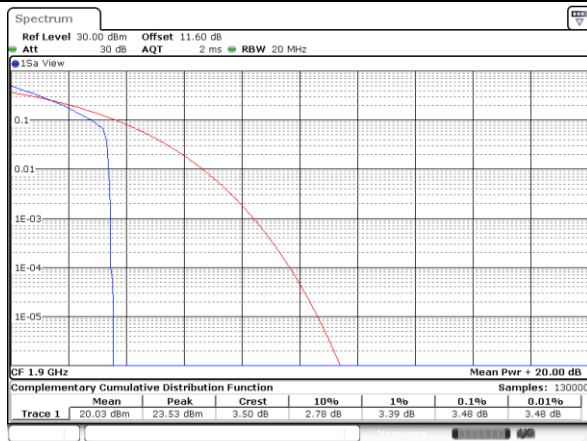
Middle Channel / 1RB



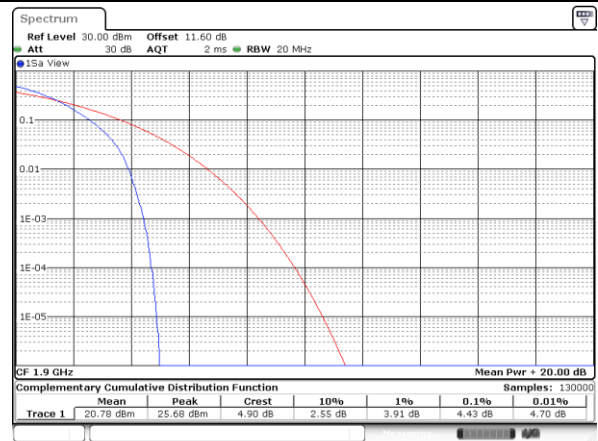
Middle Channel / Full RB



Highest Channel / 1RB



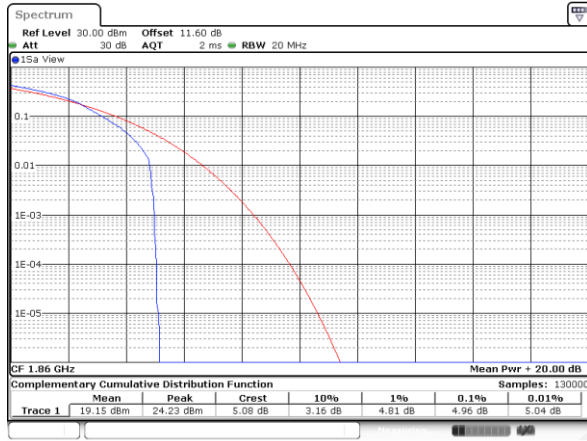
Highest Channel / Full RB



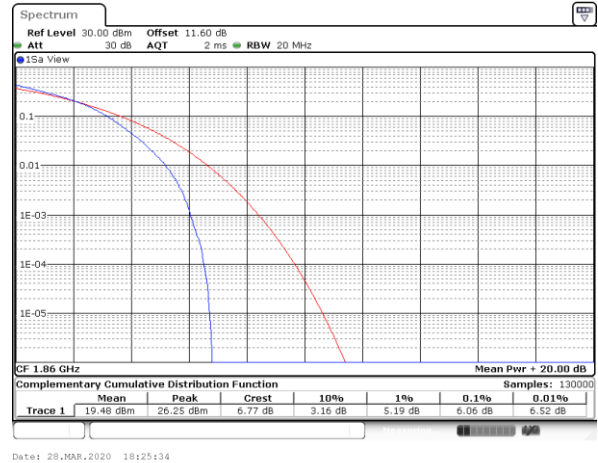


LTE Band 2 / 20MHz / 16QAM

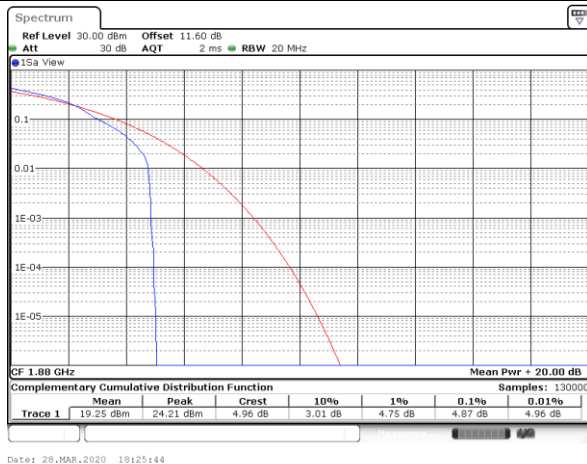
Lowest Channel / 1RB



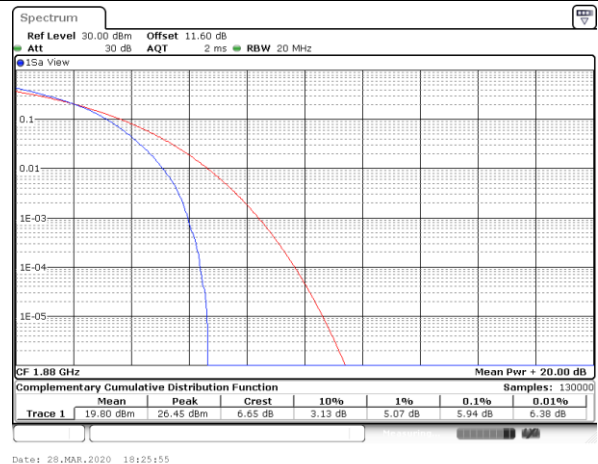
Lowest Channel / Full RB



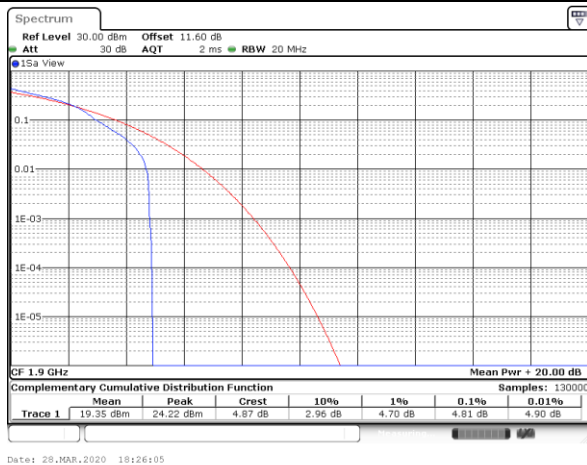
Middle Channel / 1RB



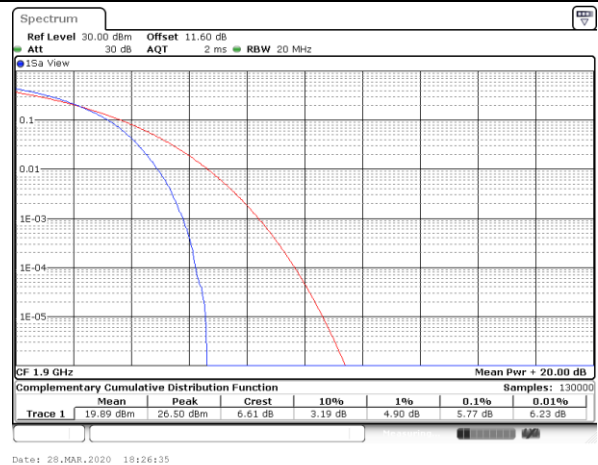
Middle Channel / Full RB



Highest Channel / 1RB



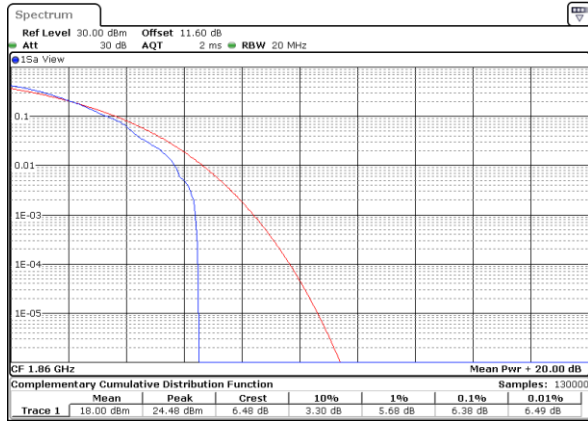
Highest Channel / Full RB



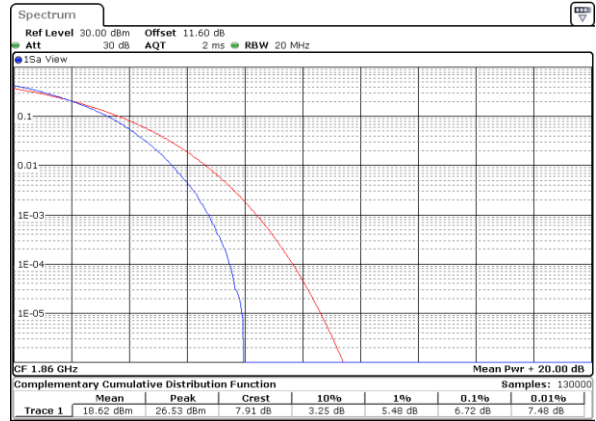


LTE Band 2 / 20MHz / 64QAM

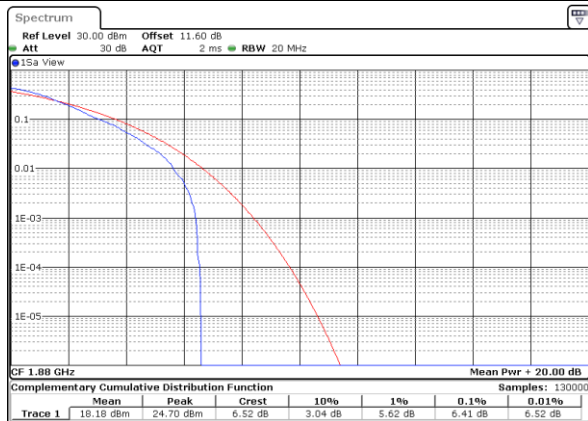
Lowest Channel / 1RB



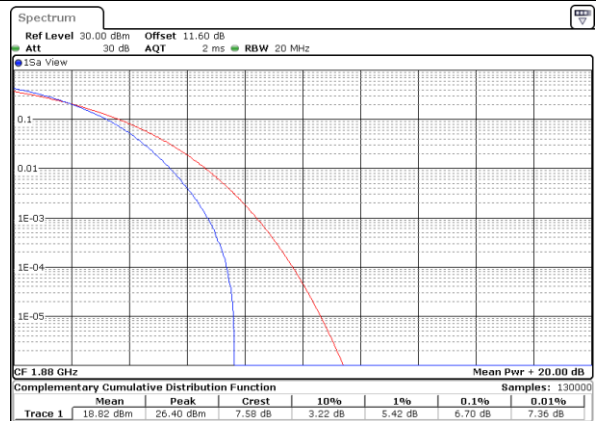
Lowest Channel / Full RB



Middle Channel / 1RB



Middle Channel / Full RB



Highest Channel / 1RB



Highest Channel / Full RB



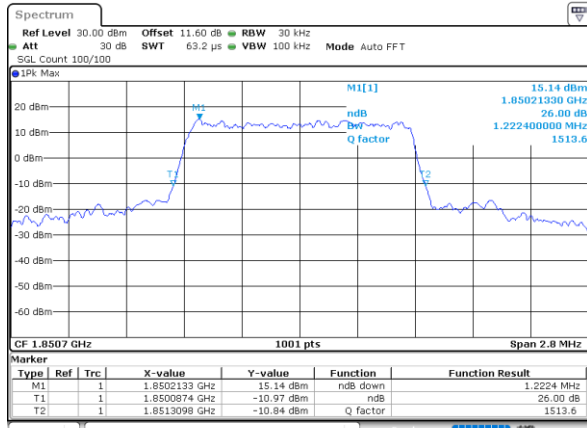
**26dB Bandwidth**

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	1.22	1.23	3.05	3.02	4.90	4.88	9.83	9.81	14.18	14.18	18.90	19.06
Middle CH	1.23	1.22	3.03	3.07	4.84	4.95	9.79	9.67	14.42	14.33	18.94	18.66
Highest CH	1.21	1.22	3.01	3.04	4.94	4.93	9.87	9.95	14.33	14.42	18.70	18.86
Mode	LTE Band 2 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	1.23	-	3.04	-	4.83	-	9.91	-	14.21	-	19.02	-
Middle CH	1.24	-	3.01	-	4.91	-	9.93	-	14.36	-	18.74	-
Highest CH	1.23	-	3.02	-	4.85	-	9.75	-	14.57	-	18.70	-



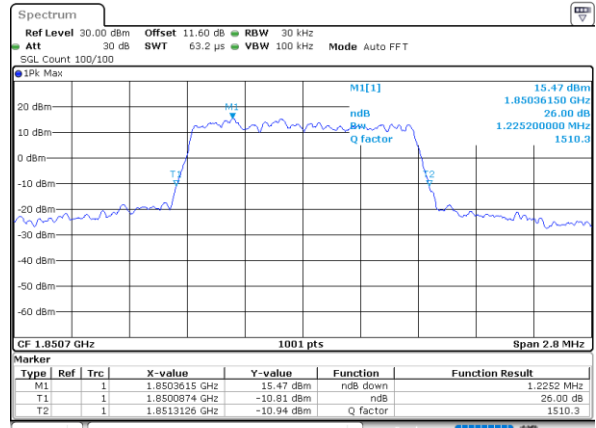
LTE Band 2

Lowest Channel / 1.4MHz / QPSK



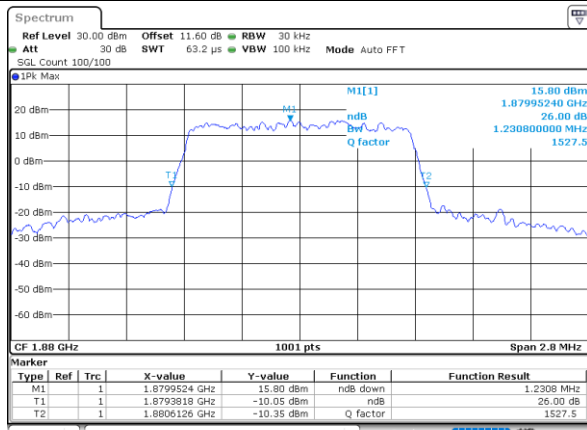
Date: 20.MAR.2020 06:41:12

Lowest Channel / 1.4MHz / 16QAM



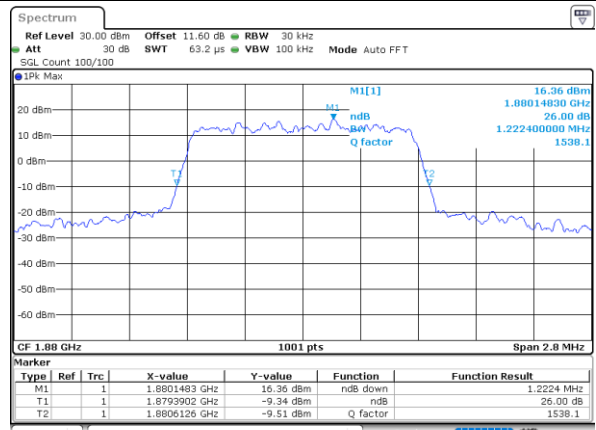
Date: 20.MAR.2020 06:41:24

Middle Channel / 1.4MHz / QPSK



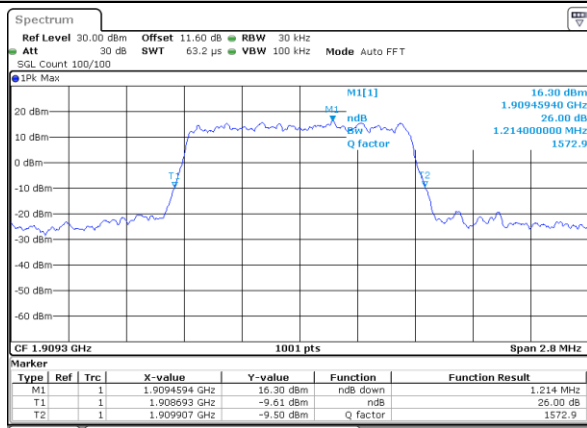
Date: 20.MAR.2020 06:47:31

Middle Channel / 1.4MHz / 16QAM



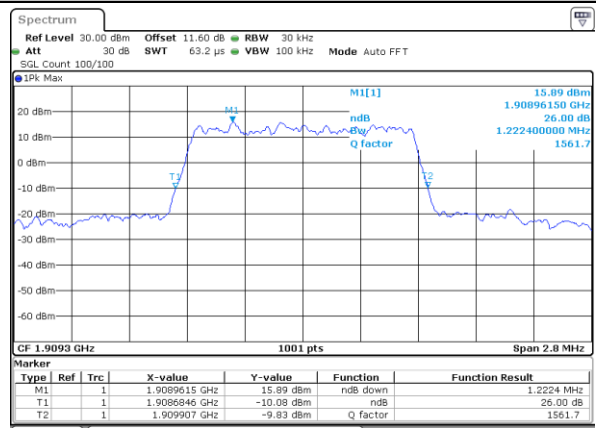
Date: 20.MAR.2020 06:47:42

Highest Channel / 1.4MHz / QPSK



Date: 20.MAR.2020 06:49:37

Highest Channel / 1.4MHz / 16QAM

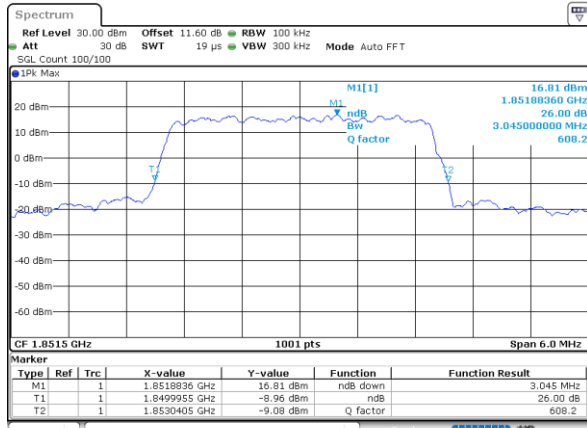


Date: 20.MAR.2020 06:49:49



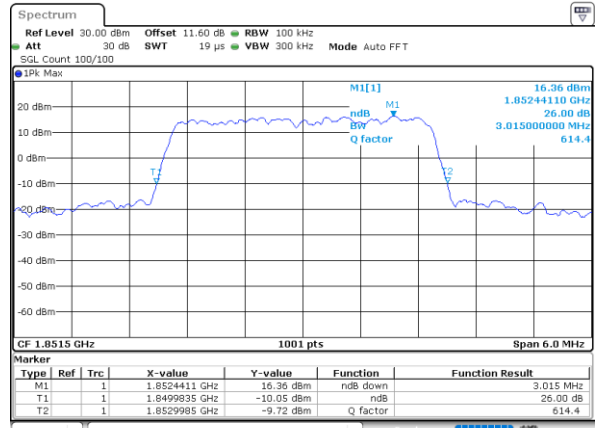
LTE Band 2

Lowest Channel / 3MHz / QPSK



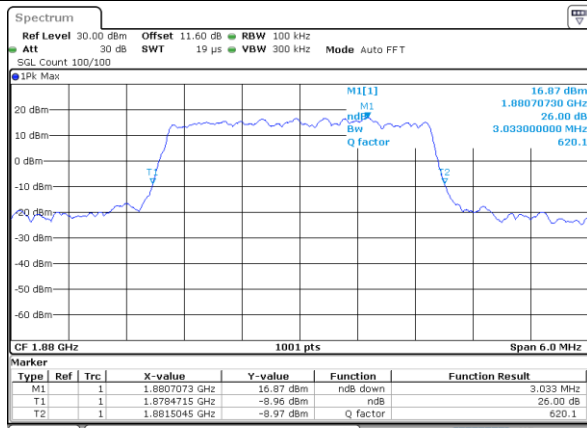
Date: 20.MAR.2020 05:19:40

Lowest Channel / 3MHz / 16QAM



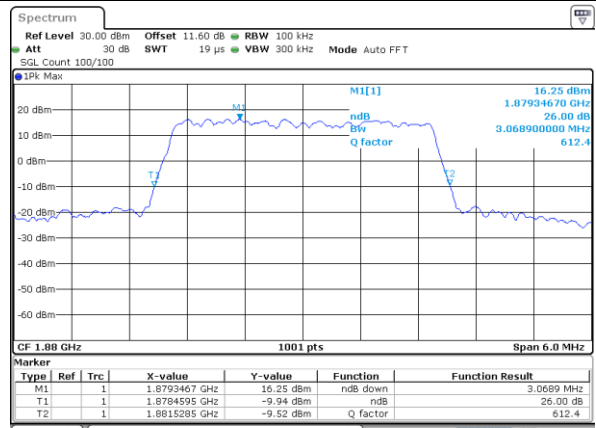
Date: 20.MAR.2020 05:19:52

Middle Channel / 3MHz / QPSK



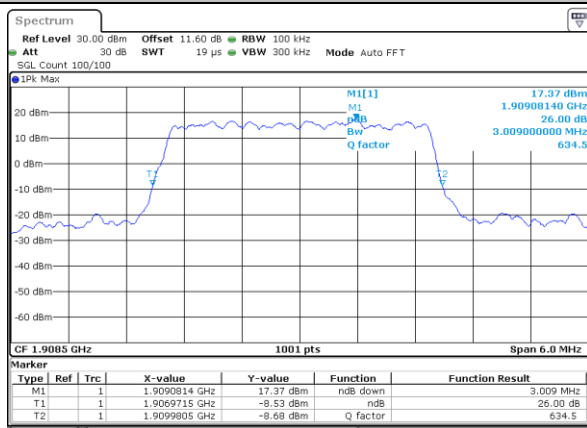
Date: 20.MAR.2020 05:25:46

Middle Channel / 3MHz / 16QAM



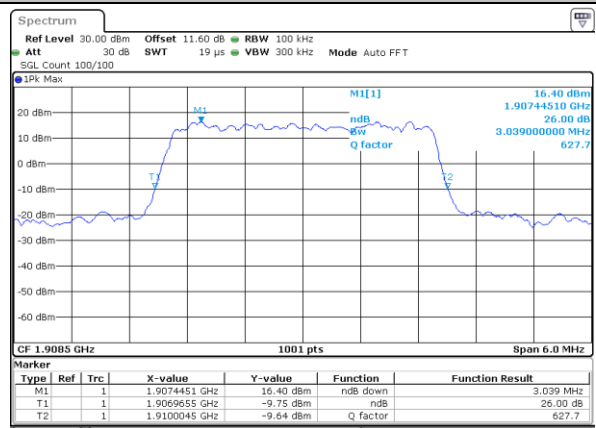
Date: 20.MAR.2020 05:25:57

Highest Channel / 3MHz / QPSK



Date: 20.MAR.2020 05:27:52

Highest Channel / 3MHz / 16QAM

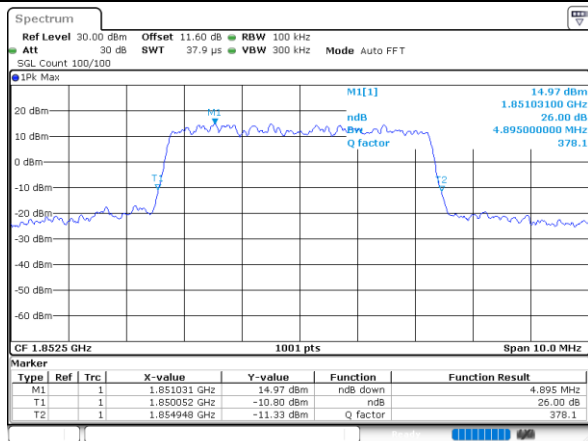


Date: 20.MAR.2020 05:28:04



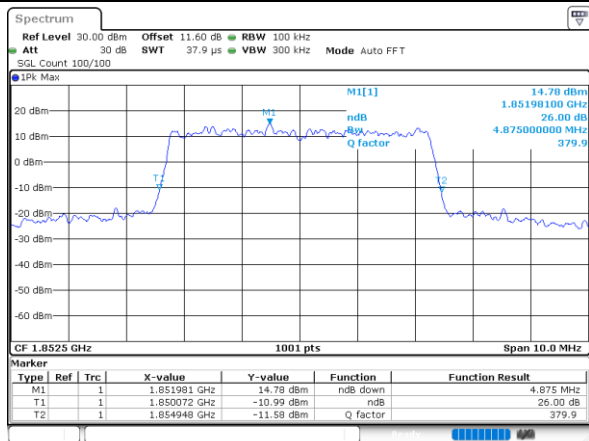
LTE Band 2

Lowest Channel / 5MHz / QPSK



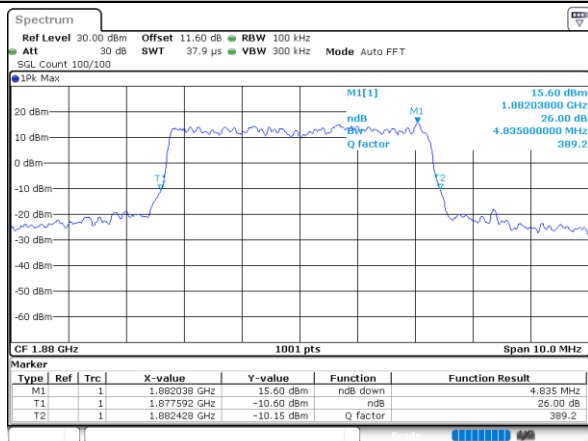
Date: 20.MAR.2020 05:34:00

Lowest Channel / 5MHz / 16QAM



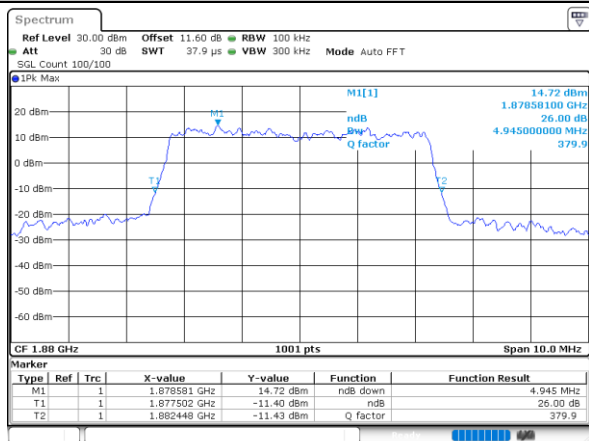
Date: 20.MAR.2020 05:34:12

Middle Channel / 5MHz / QPSK



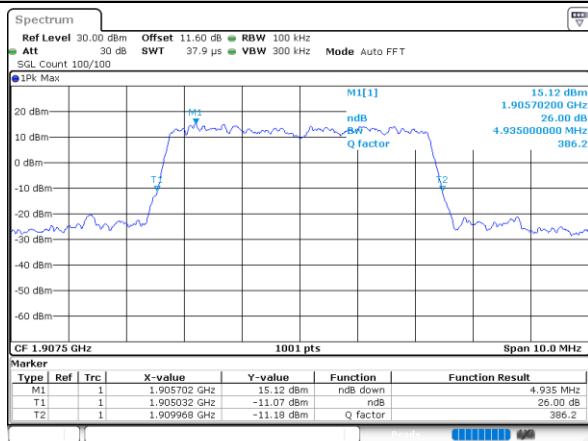
Date: 20.MAR.2020 05:40:06

Middle Channel / 5MHz / 16QAM



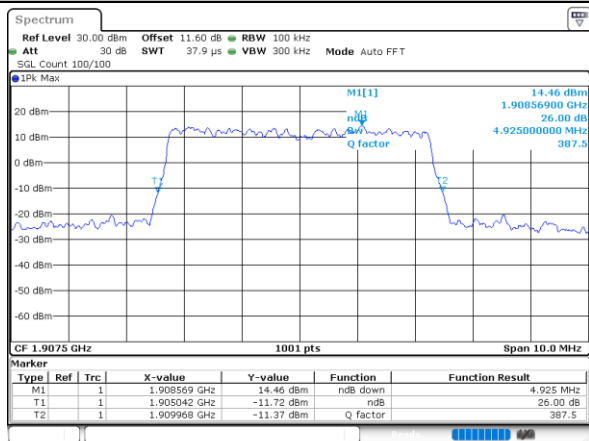
Date: 20.MAR.2020 05:40:17

Highest Channel / 5MHz / QPSK



Date: 20.MAR.2020 05:42:12

Highest Channel / 5MHz / 16QAM

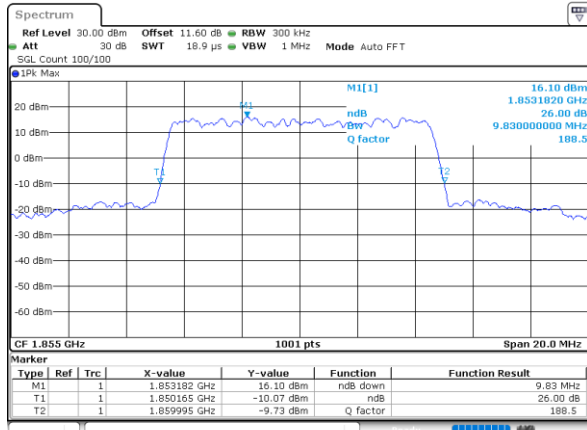


Date: 20.MAR.2020 05:42:24

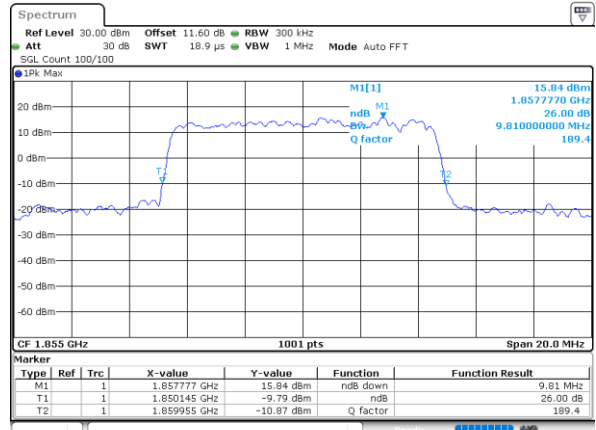


LTE Band 2

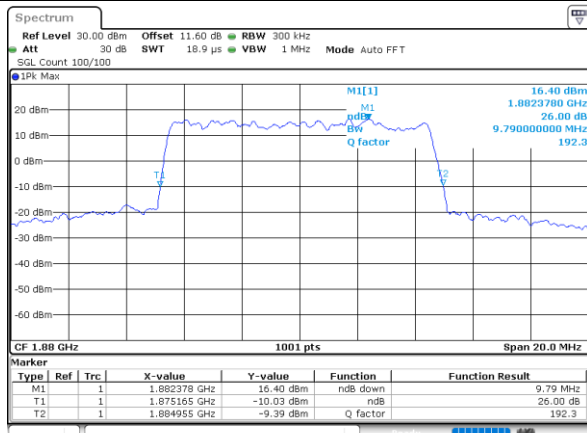
Lowest Channel / 10MHz / QPSK



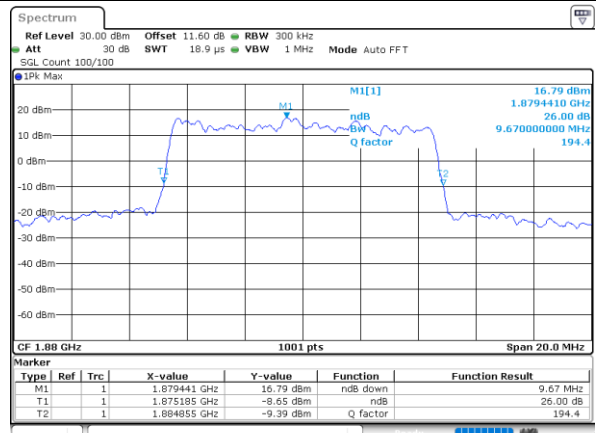
Lowest Channel / 10MHz / 16QAM



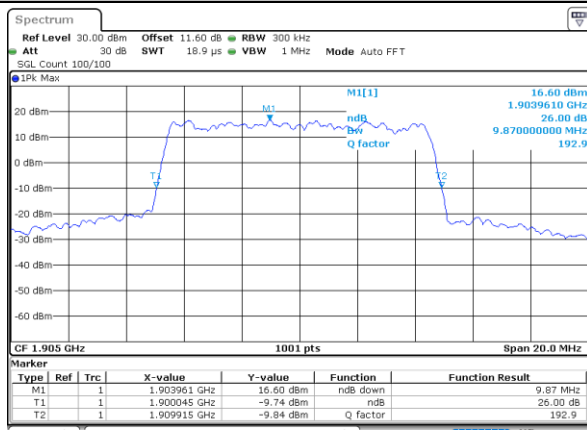
Middle Channel / 10MHz / QPSK



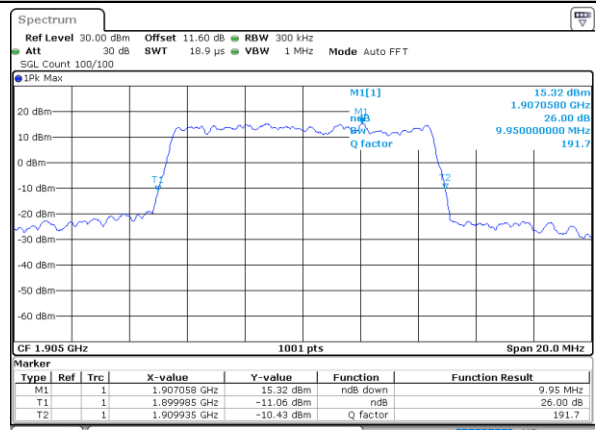
Middle Channel / 10MHz / 16QAM



Highest Channel / 10MHz / QPSK



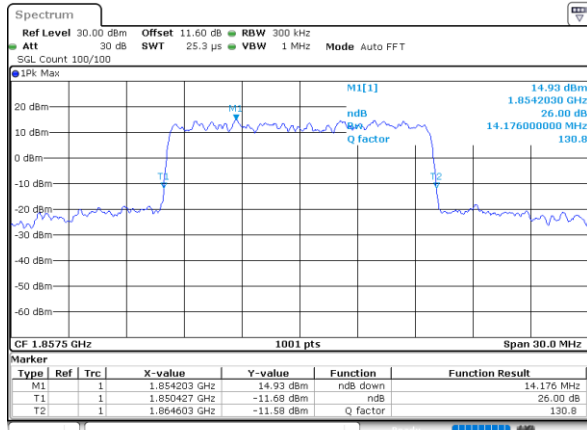
Highest Channel / 10MHz / 16QAM





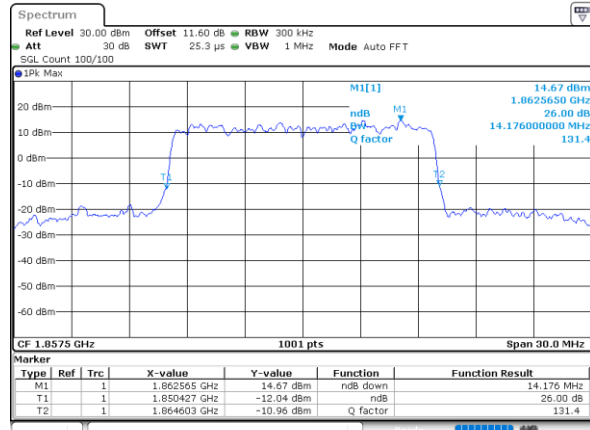
LTE Band 2

Lowest Channel / 15MHz / QPSK



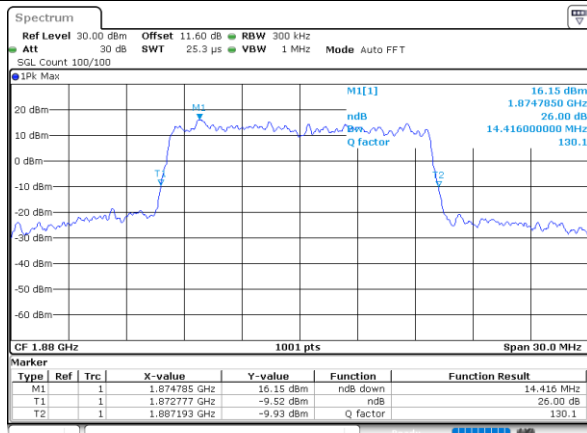
Date: 20.MAR.2020 06:02:41

Lowest Channel / 15MHz / 16QAM



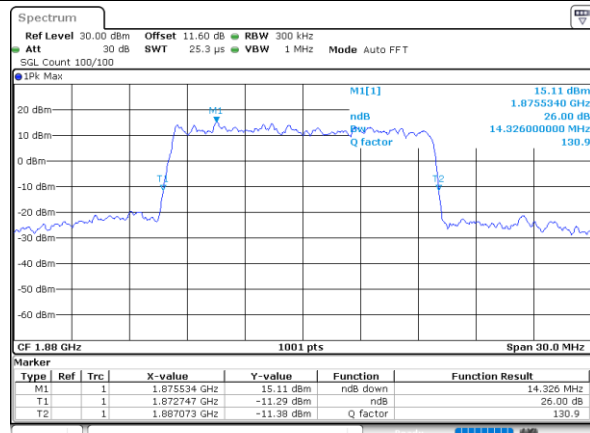
Date: 20.MAR.2020 06:02:53

Middle Channel / 15MHz / QPSK



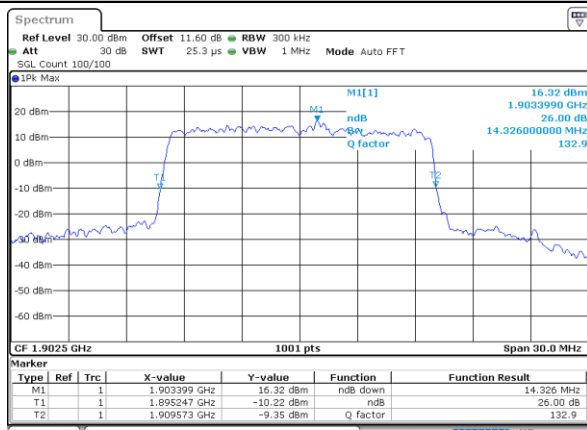
Date: 20.MAR.2020 06:08:47

Middle Channel / 15MHz / 16QAM



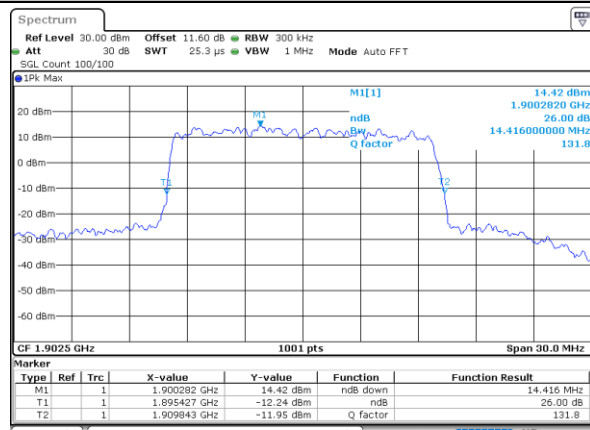
Date: 20.MAR.2020 06:08:58

Highest Channel / 15MHz / QPSK



Date: 20.MAR.2020 06:10:53

Highest Channel / 15MHz / 16QAM

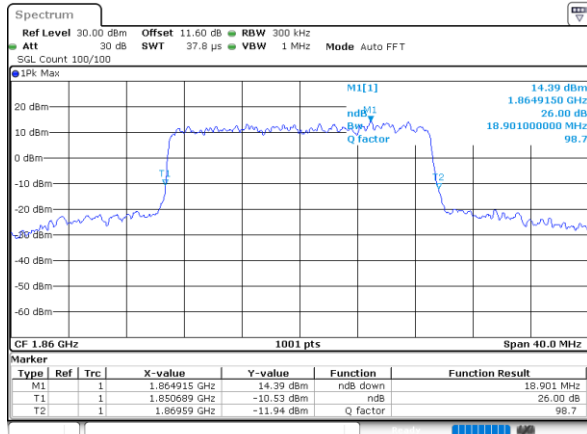


Date: 20.MAR.2020 06:11:04



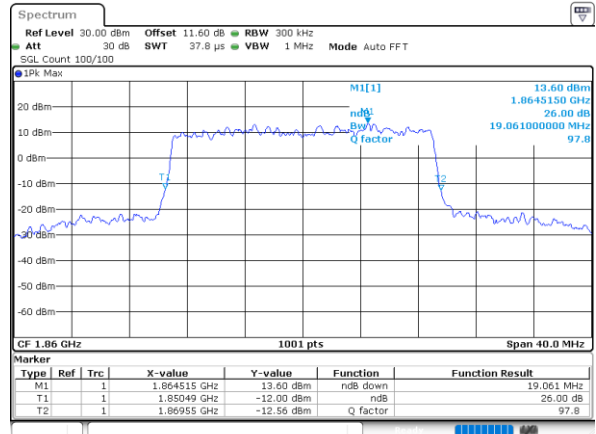
LTE Band 2

Lowest Channel / 20MHz / QPSK



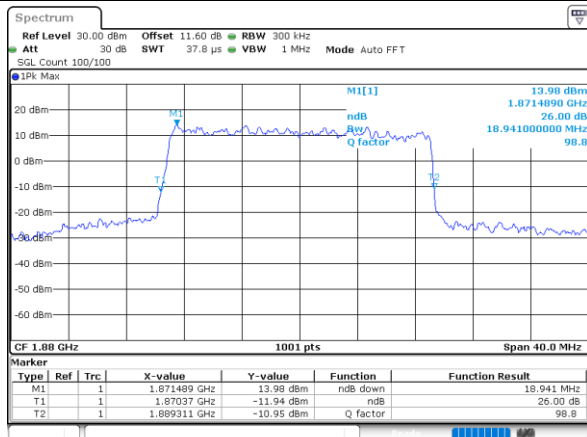
Date: 20.MAR.2020 06:17:01

Lowest Channel / 20MHz / 16QAM



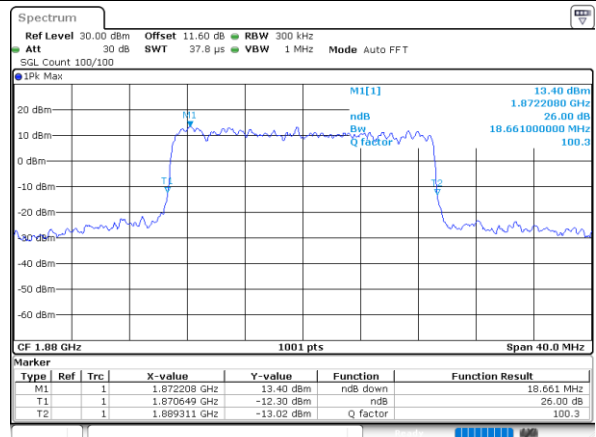
Date: 20.MAR.2020 06:17:13

Middle Channel / 20MHz / QPSK



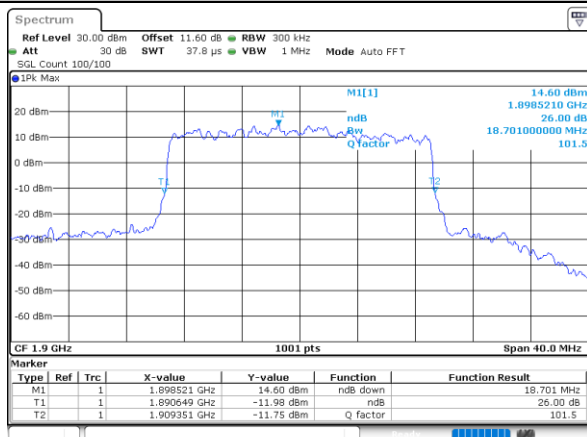
Date: 20.MAR.2020 06:23:07

Middle Channel / 20MHz / 16QAM



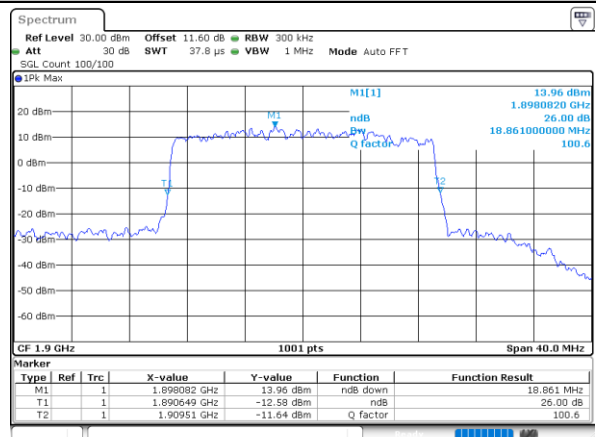
Date: 20.MAR.2020 06:23:18

Highest Channel / 20MHz / QPSK



Date: 20.MAR.2020 06:25:13

Highest Channel / 20MHz / 16QAM

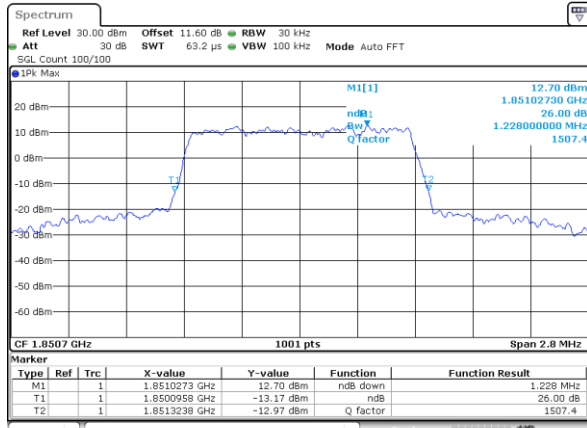


Date: 20.MAR.2020 06:25:25



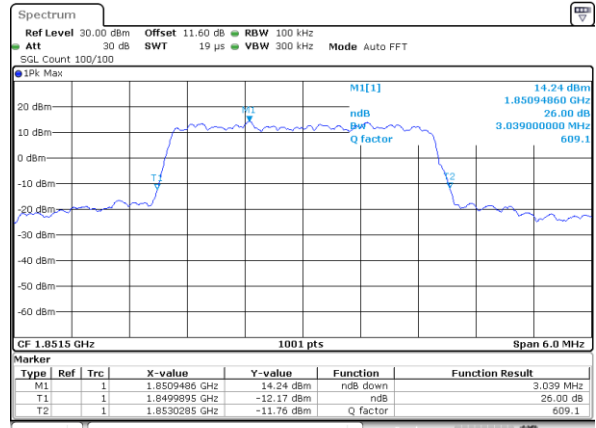
LTE Band 2

Lowest Channel / 1.4MHz / 64QAM



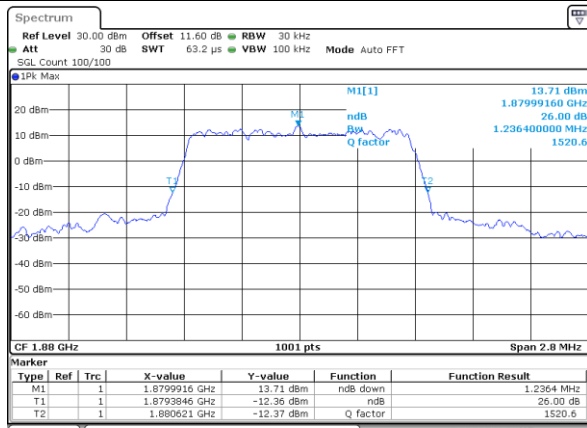
Date: 28.MAR.2020 17:45:16

Lowest Channel / 3MHz / 64QAM



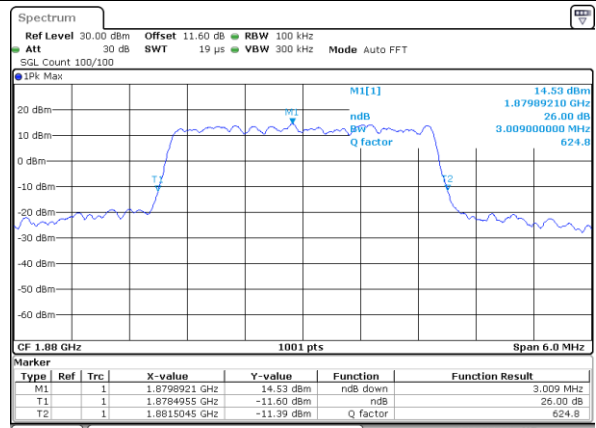
Date: 28.MAR.2020 17:10:24

Middle Channel / 1.4MHz / 64QAM



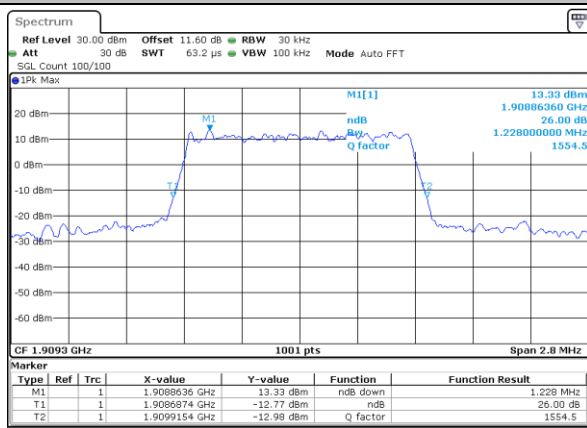
Date: 28.MAR.2020 18:15:24

Middle Channel / 3MHz / 64QAM



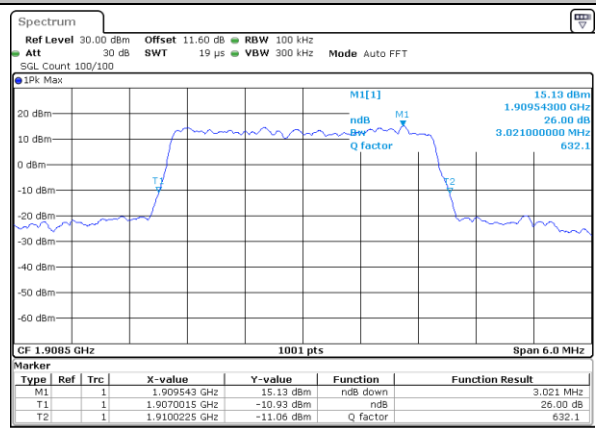
Date: 28.MAR.2020 17:13:10

Highest Channel / 1.4MHz / 64QAM



Date: 28.MAR.2020 18:16:39

Highest Channel / 3MHz / 64QAM

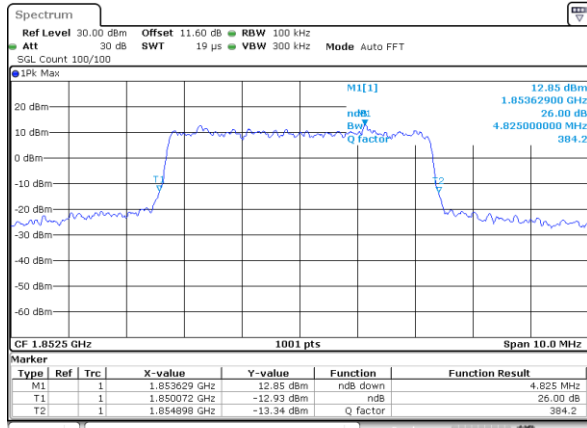


Date: 28.MAR.2020 17:14:35



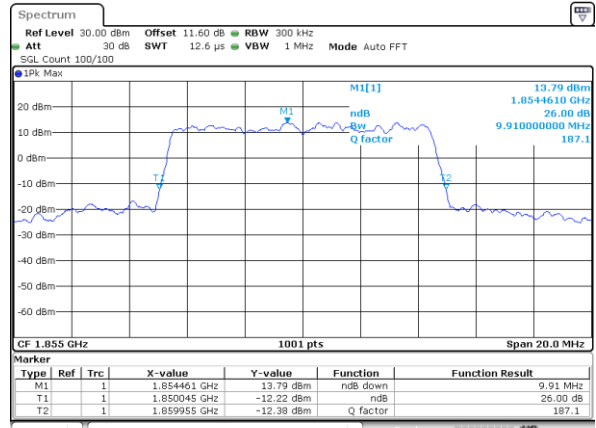
LTE Band 2

Lowest Channel / 5MHz / 64QAM



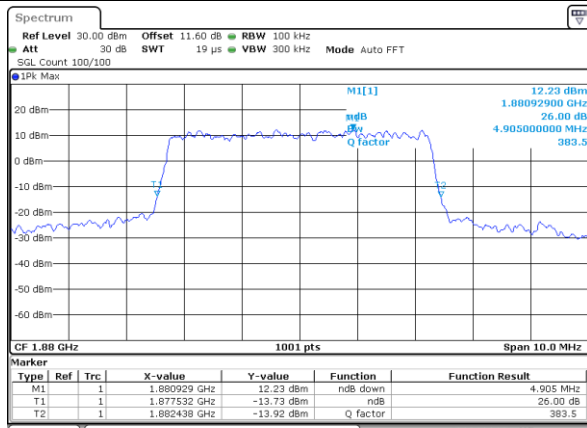
Date: 28.MAR.2020 17:17:23

Lowest Channel / 10MHz / 64QAM



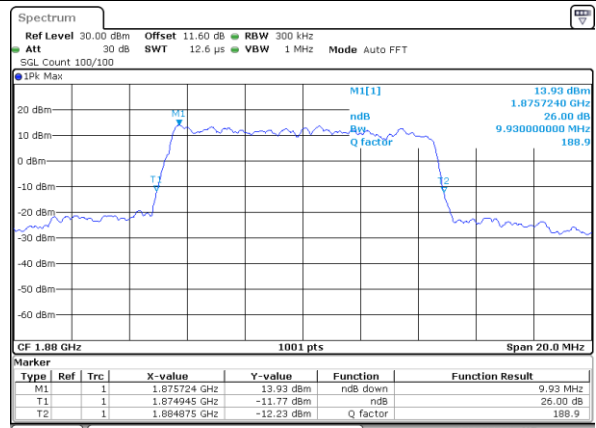
Date: 28.MAR.2020 17:24:21

Middle Channel / 5MHz / 64QAM



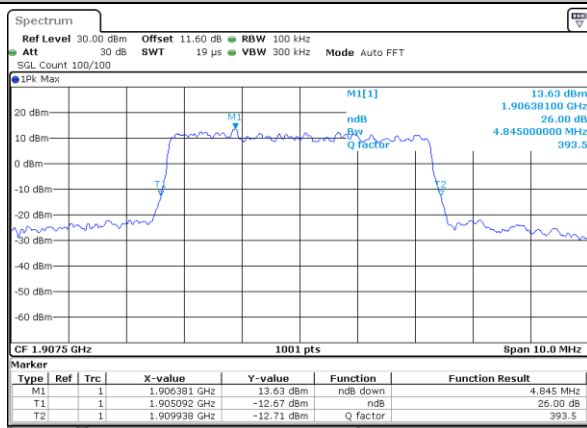
Date: 28.MAR.2020 17:28:07

Middle Channel / 10MHz / 64QAM



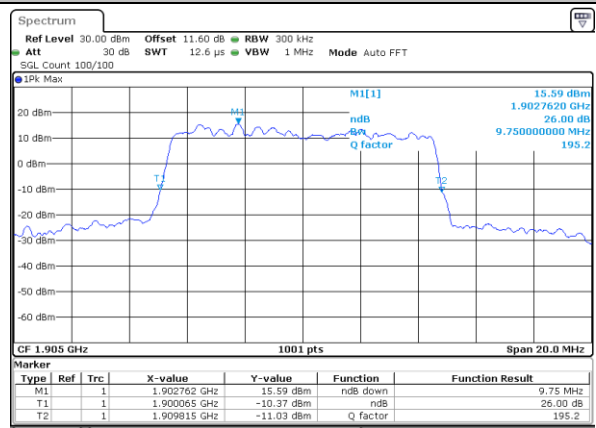
Date: 28.MAR.2020 17:27:05

Highest Channel / 5MHz / 64QAM



Date: 28.MAR.2020 17:21:33

Highest Channel / 10MHz / 64QAM

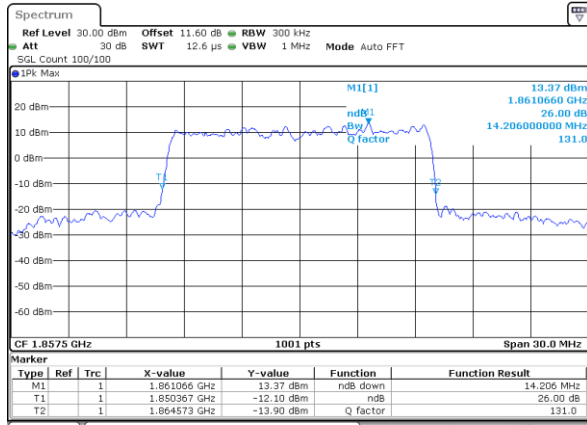


Date: 28.MAR.2020 17:28:32



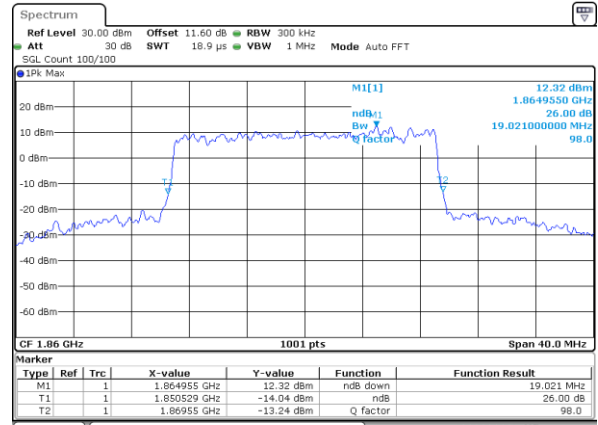
LTE Band 2

Lowest Channel / 15MHz / 64QAM



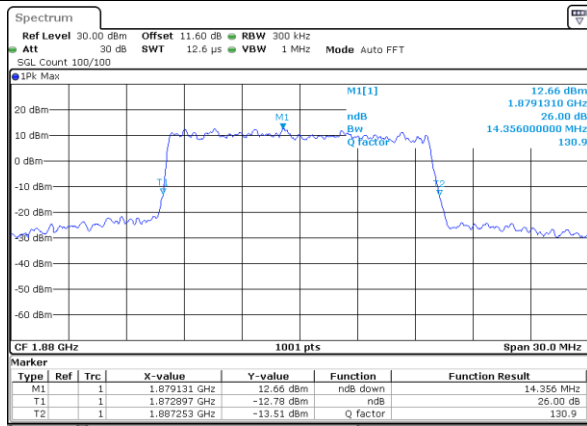
Date: 28.MAR.2020 17:31:19

Lowest Channel / 20MHz / 64QAM



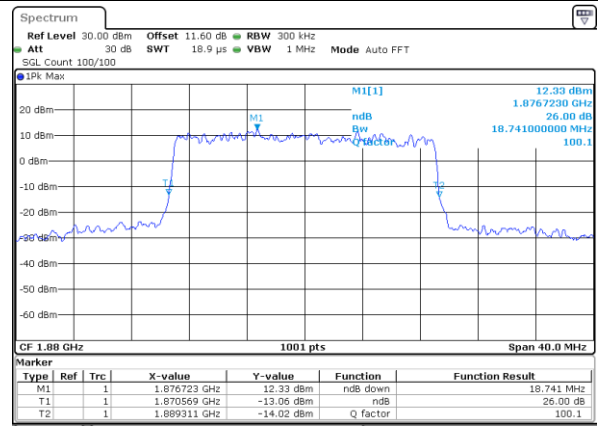
Date: 28.MAR.2020 17:38:18

Middle Channel / 15MHz / 64QAM



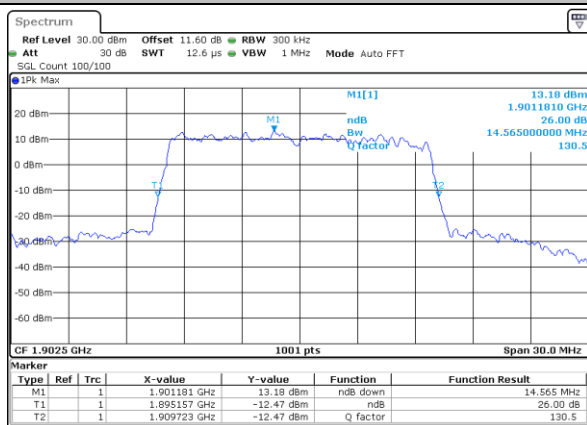
Date: 28.MAR.2020 17:34:04

Middle Channel / 20MHz / 64QAM



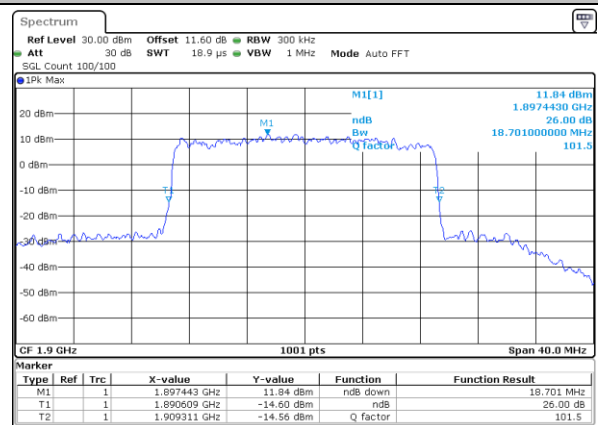
Date: 28.MAR.2020 17:41:03

Highest Channel / 15MHz / 64QAM



Date: 28.MAR.2020 17:35:30

Highest Channel / 20MHz / 64QAM



Date: 28.MAR.2020 17:42:29

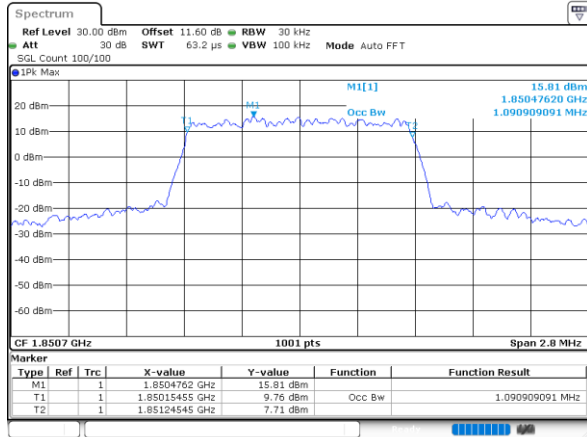
**Occupied Bandwidth**

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	1.09	2.72	2.70	4.50	4.50	9.05	9.09	13.46	13.49	17.94	17.90
Middle CH	1.10	1.09	2.73	2.73	4.49	4.51	9.01	8.95	13.43	13.37	17.78	17.86
Highest CH	1.09	1.09	2.72	2.71	4.51	4.51	9.01	9.05	13.43	13.46	17.86	17.78
Mode	LTE Band 2 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	1.09	-	2.73	-	4.51	-	9.07	-	13.46	-	17.90	-
Middle CH	1.09	-	2.73	-	4.50	-	8.97	-	13.49	-	17.90	-
Highest CH	1.09	-	2.73	-	4.51	-	9.01	-	13.40	-	17.82	-

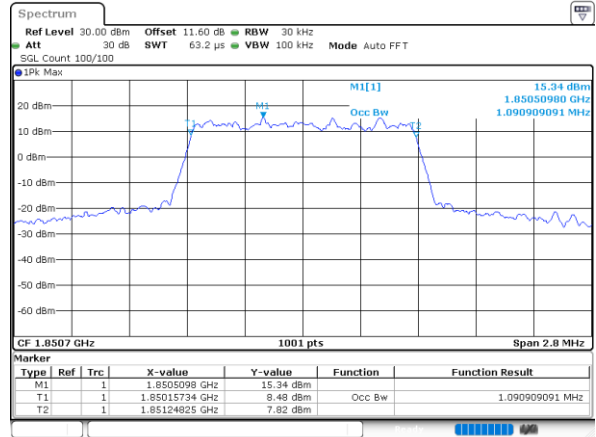


LTE Band 2

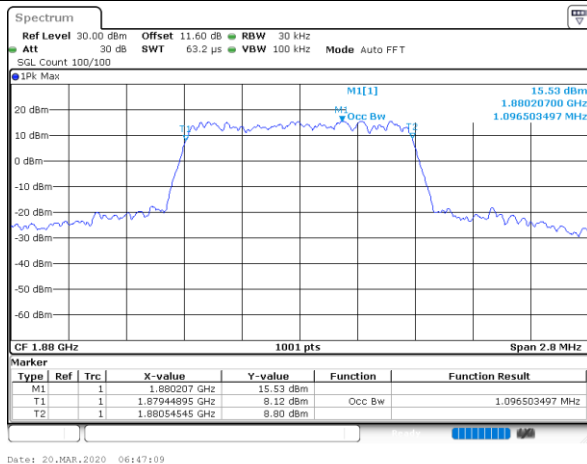
Lowest Channel / 1.4MHz / QPSK



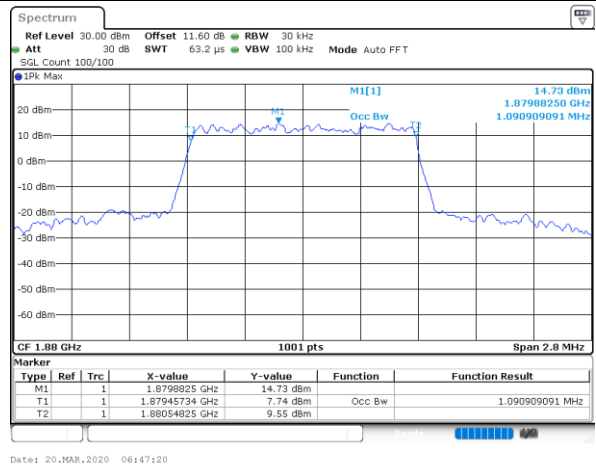
Lowest Channel / 1.4MHz / 16QAM



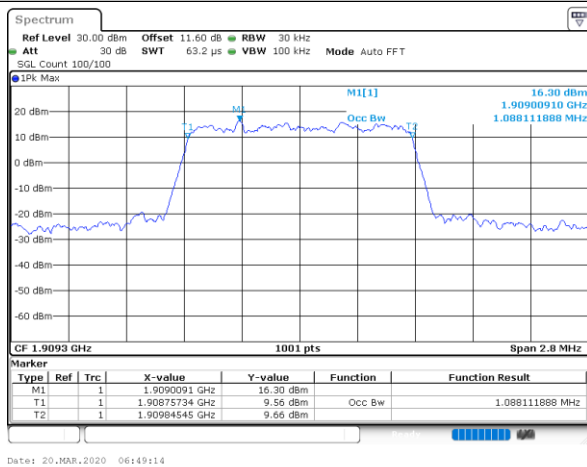
Middle Channel / 1.4MHz / QPSK



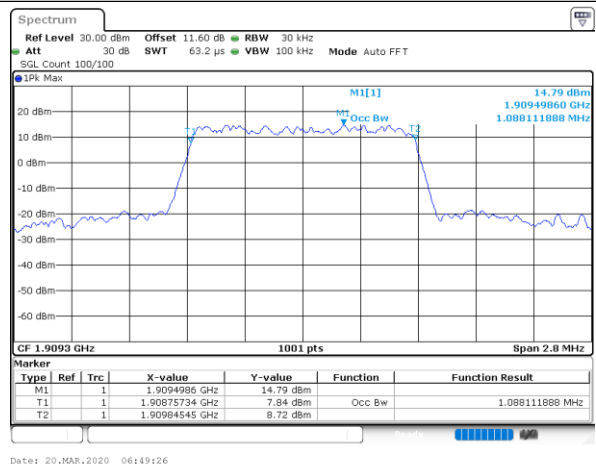
Middle Channel / 1.4MHz / 16QAM



Highest Channel / 1.4MHz / QPSK



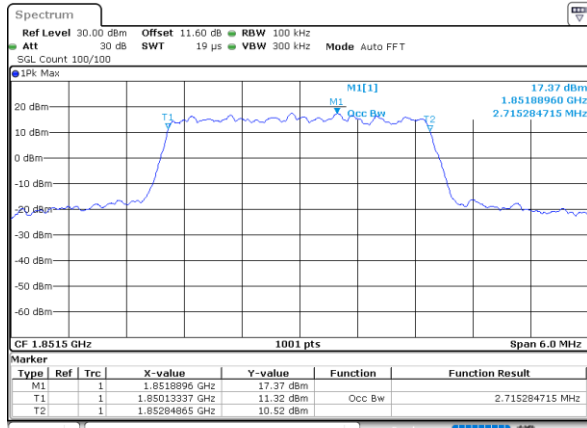
Highest Channel / 1.4MHz / 16QAM





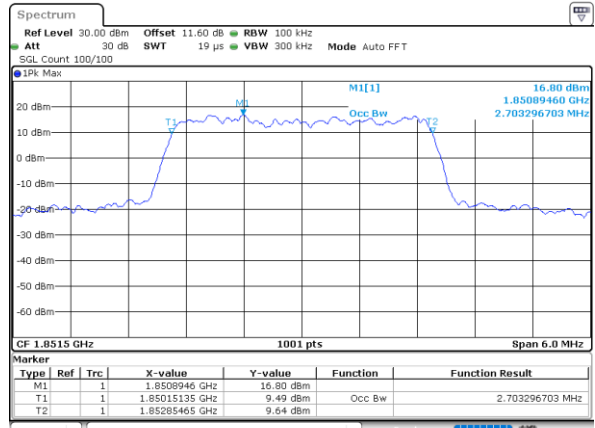
LTE Band 2

Lowest Channel / 3MHz / QPSK



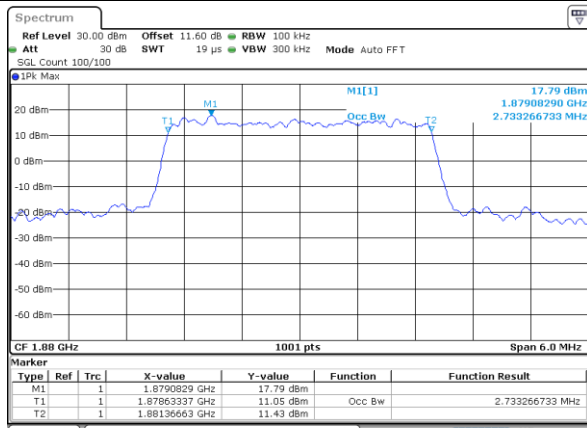
Date: 20.MAR.2020 05:19:16

Lowest Channel / 3MHz / 16QAM



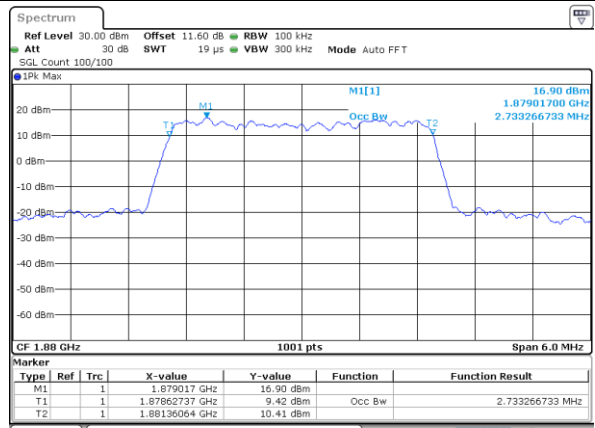
Date: 20.MAR.2020 05:19:28

Middle Channel / 3MHz / QPSK



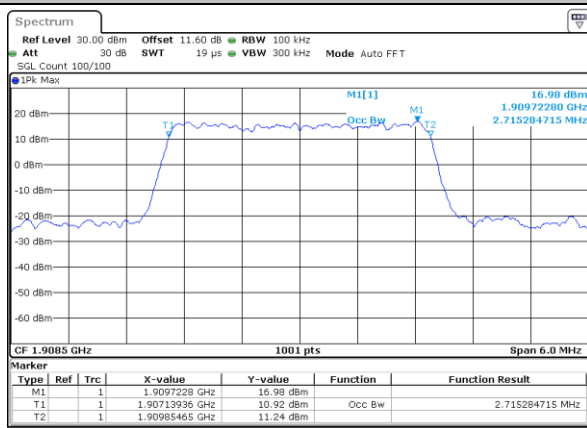
Date: 20.MAR.2020 05:25:23

Middle Channel / 3MHz / 16QAM



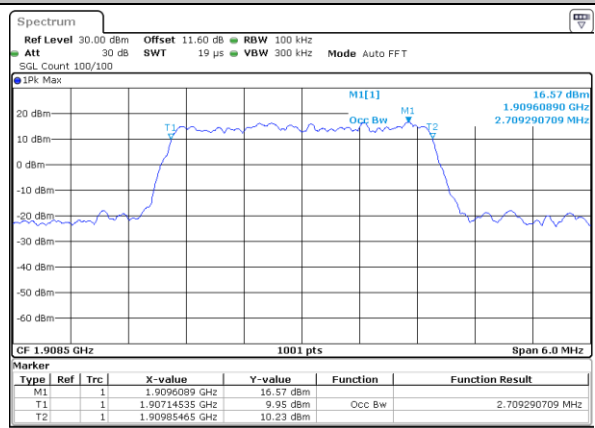
Date: 20.MAR.2020 05:25:34

Highest Channel / 3MHz / QPSK



Date: 20.MAR.2020 05:27:28

Highest Channel / 3MHz / 16QAM

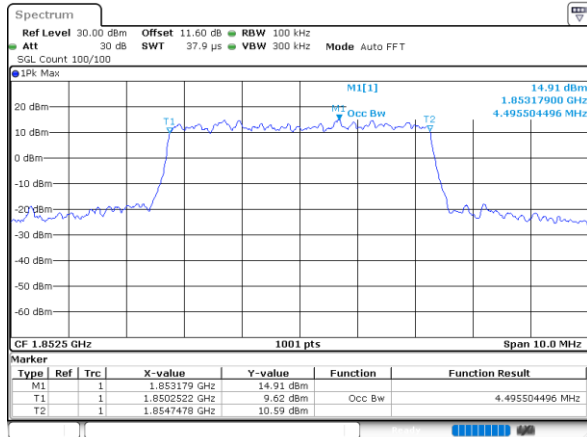


Date: 20.MAR.2020 05:27:40

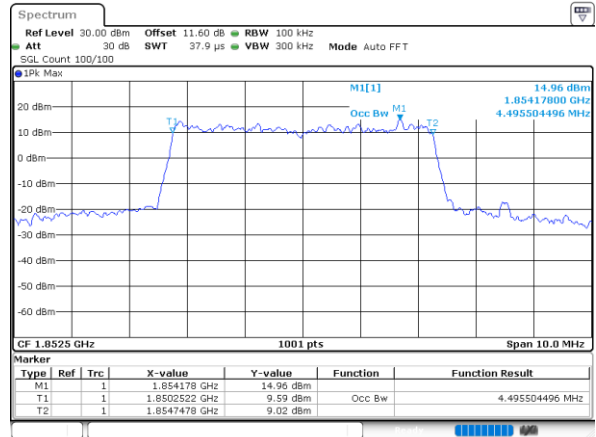


LTE Band 2

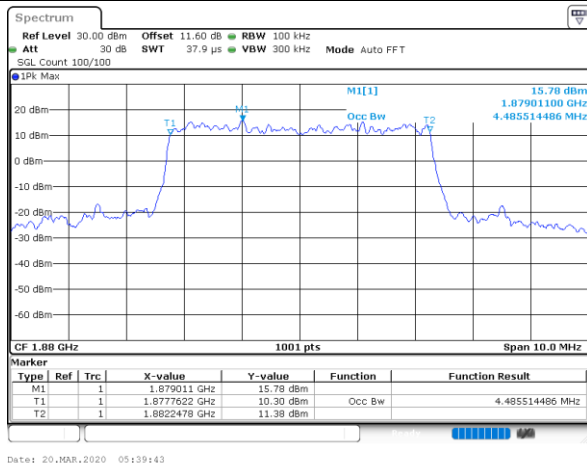
Lowest Channel / 5MHz / QPSK



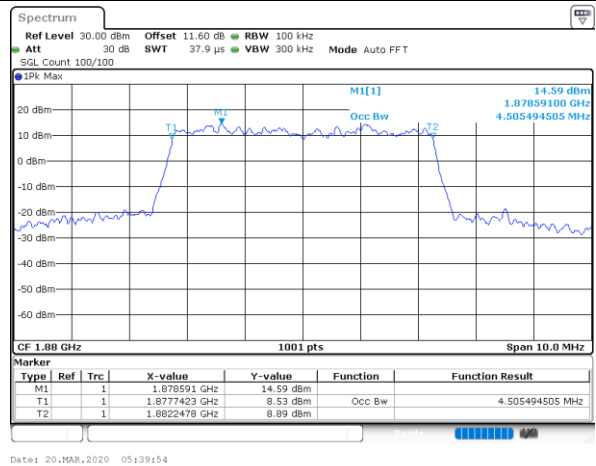
Lowest Channel / 5MHz / 16QAM



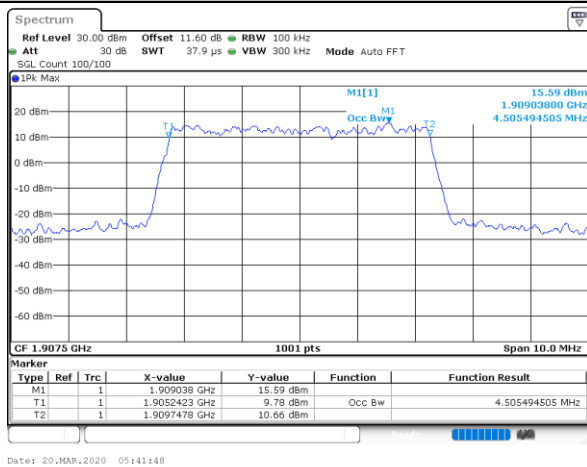
Middle Channel / 5MHz / QPSK



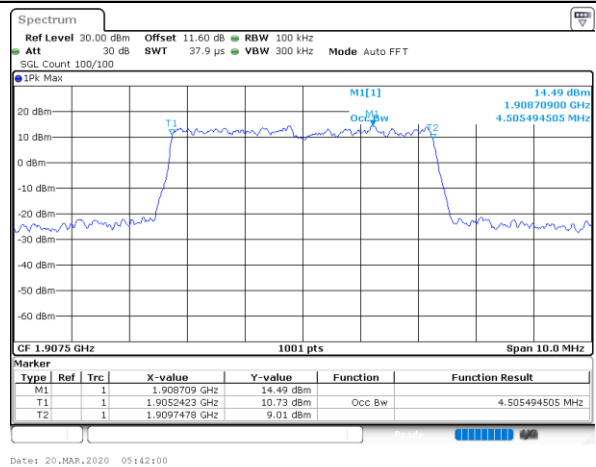
Middle Channel / 5MHz / 16QAM



Highest Channel / 5MHz / QPSK



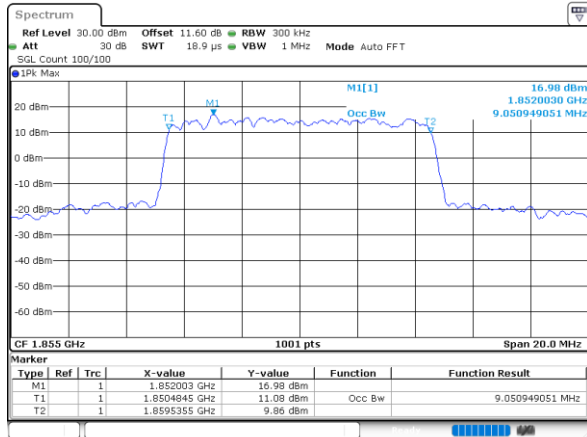
Highest Channel / 5MHz / 16QAM





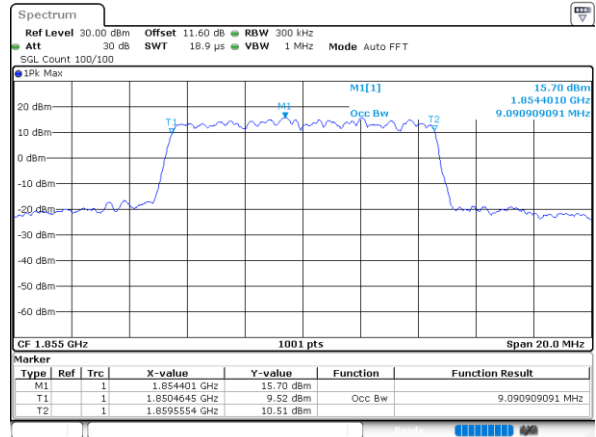
LTE Band 2

Lowest Channel / 10MHz / QPSK



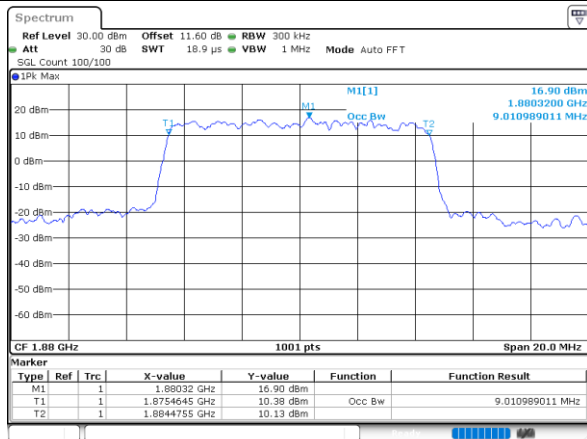
Date: 20.MAR.2020 05:47:56

Lowest Channel / 10MHz / 16QAM



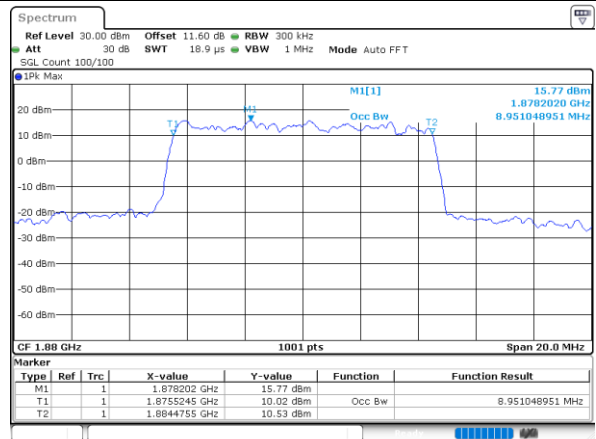
Date: 20.MAR.2020 05:48:08

Middle Channel / 10MHz / QPSK



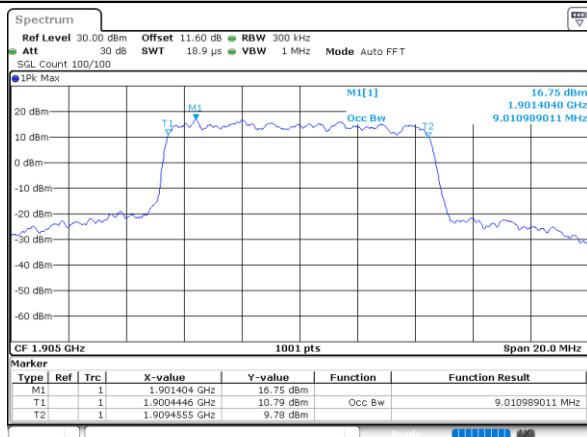
Date: 20.MAR.2020 05:54:03

Middle Channel / 10MHz / 16QAM



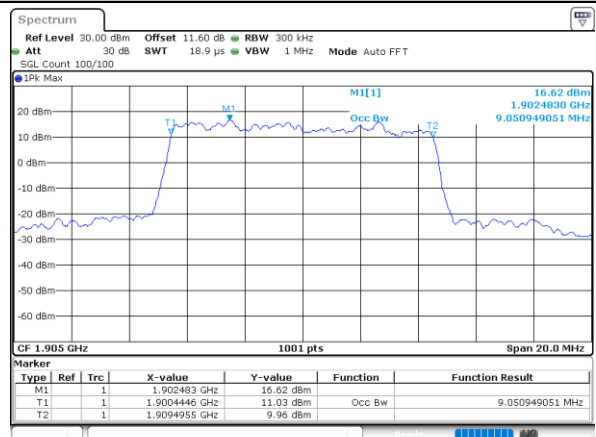
Date: 20.MAR.2020 05:54:15

Highest Channel / 10MHz / QPSK



Date: 20.MAR.2020 05:56:09

Highest Channel / 10MHz / 16QAM

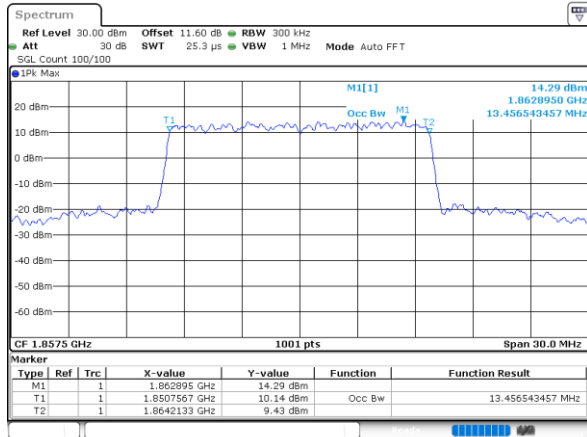


Date: 20.MAR.2020 05:56:20

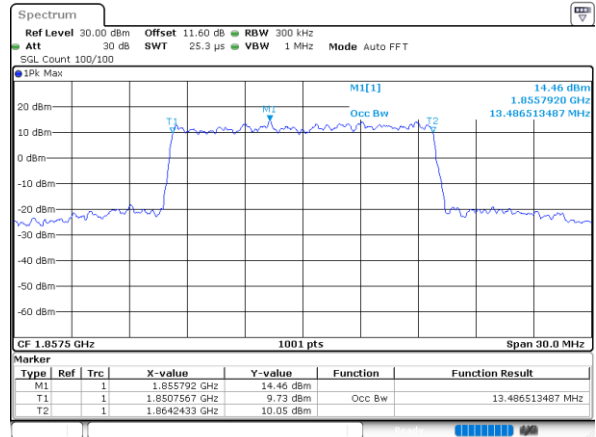


LTE Band 2

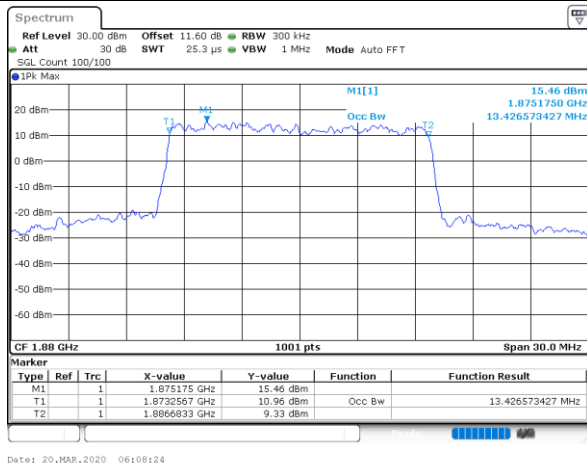
Lowest Channel / 15MHz / QPSK



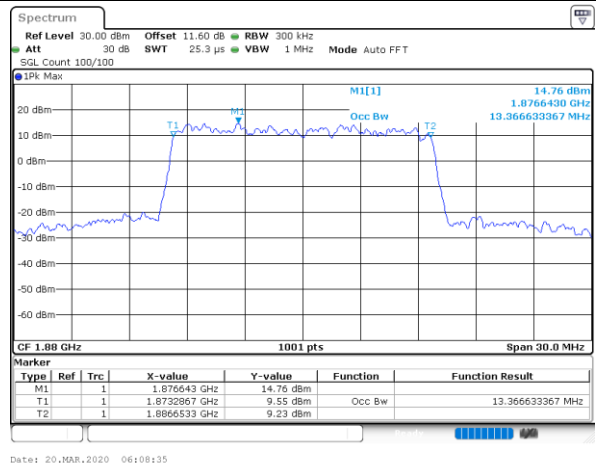
Lowest Channel / 15MHz / 16QAM



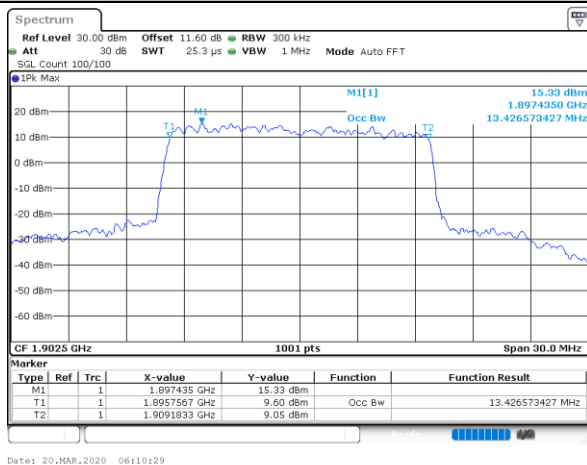
Middle Channel / 15MHz / QPSK



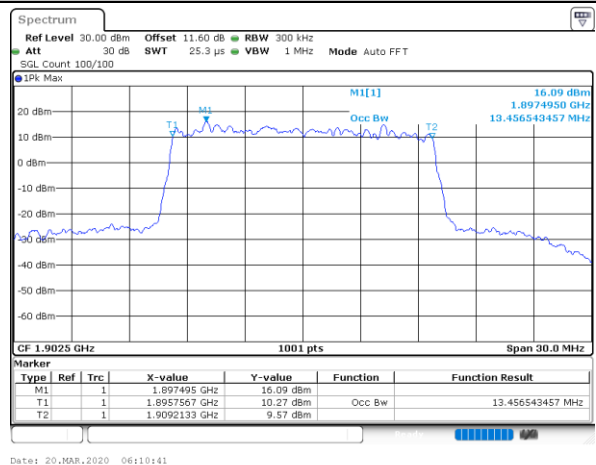
Middle Channel / 15MHz / 16QAM



Highest Channel / 15MHz / QPSK



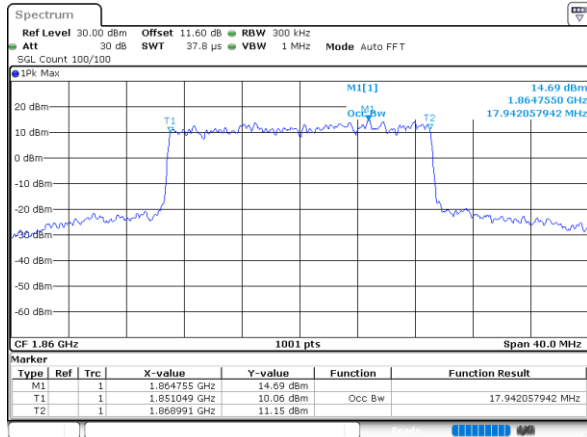
Highest Channel / 15MHz / 16QAM



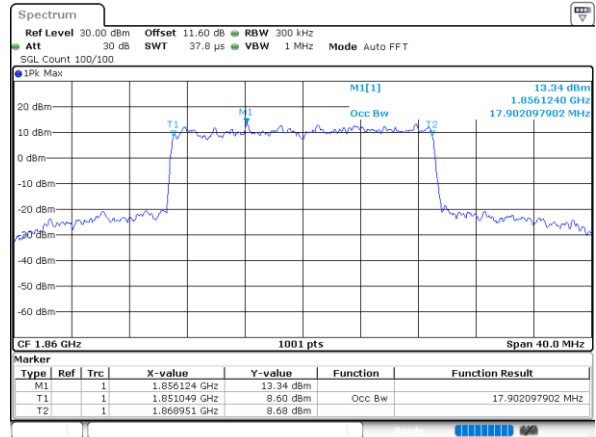


LTE Band 2

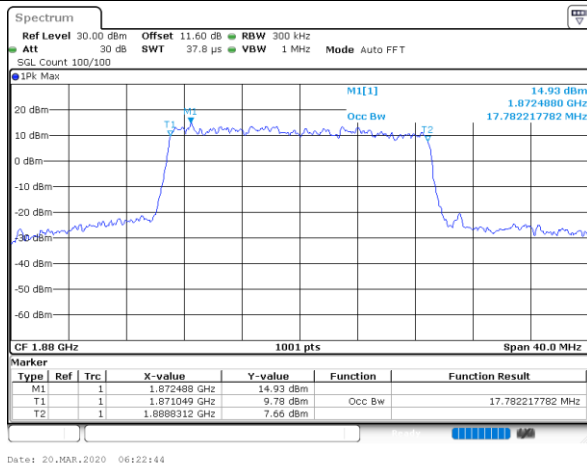
Lowest Channel / 20MHz / QPSK



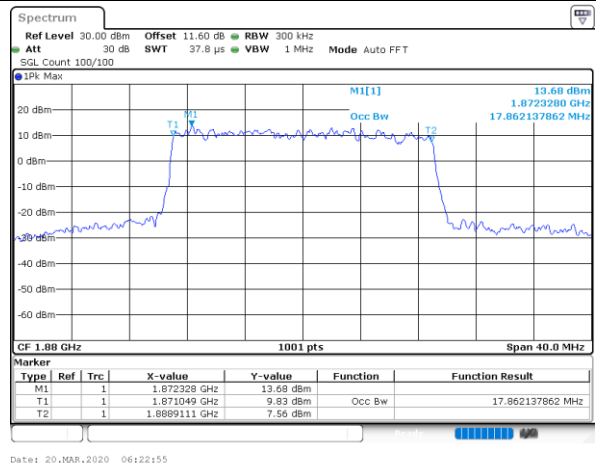
Lowest Channel / 20MHz / 16QAM



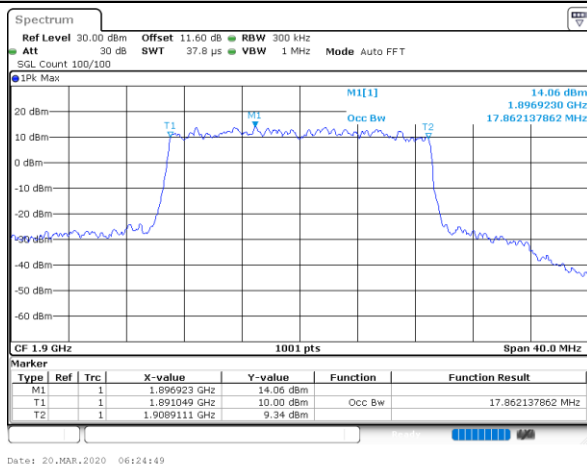
Middle Channel / 20MHz / QPSK



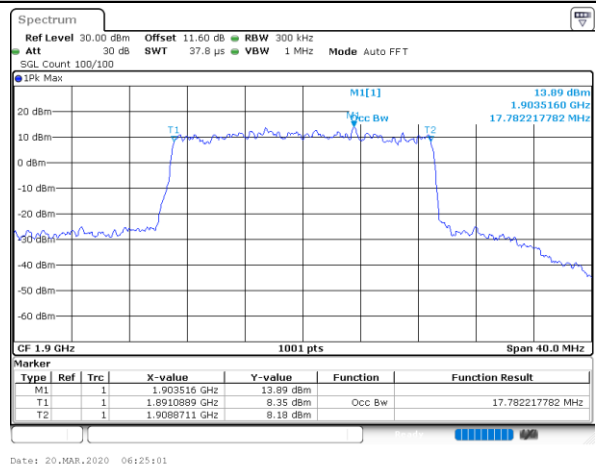
Middle Channel / 20MHz / 16QAM



Highest Channel / 20MHz / QPSK



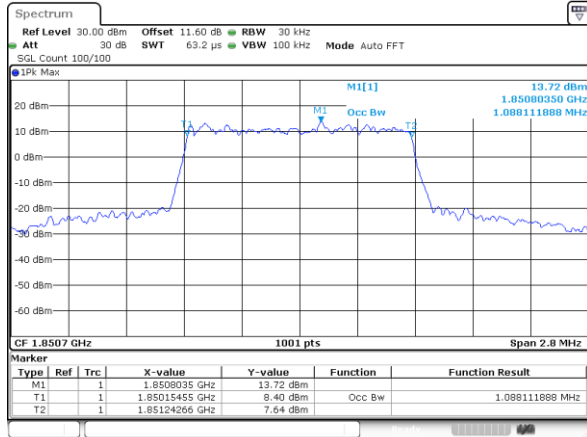
Highest Channel / 20MHz / 16QAM





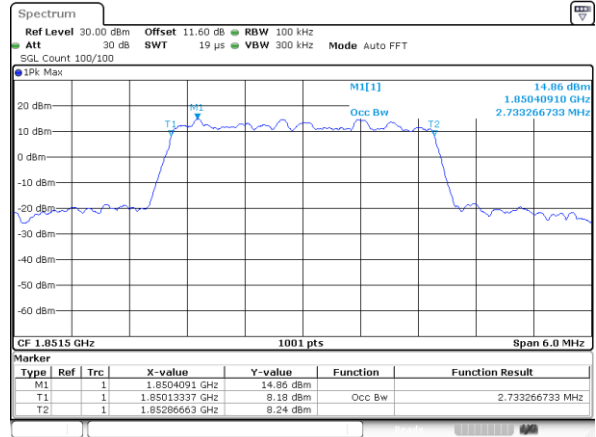
LTE Band 2

Lowest Channel / 1.4MHz / 64QAM



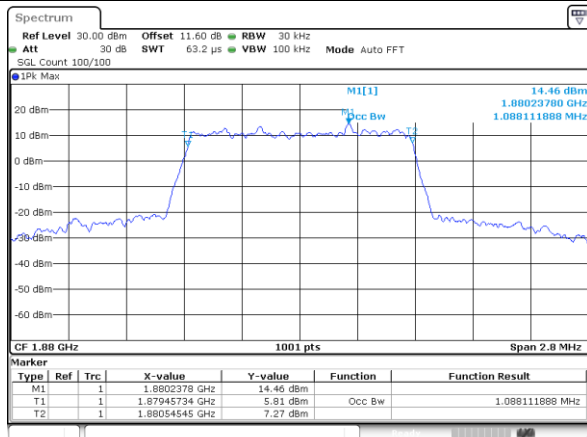
Date: 28.MAR.2020 17:45:04

Lowest Channel / 3MHz / 64QAM



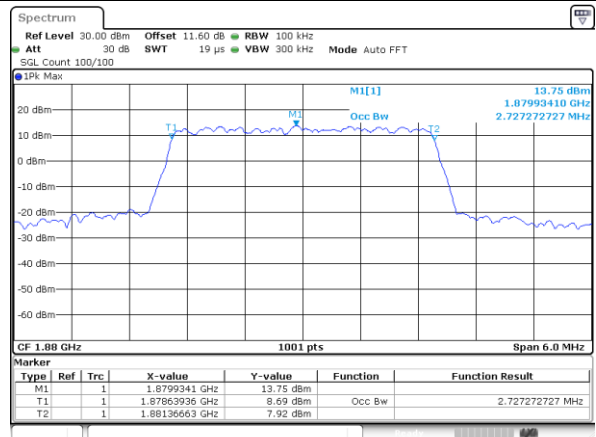
Date: 28.MAR.2020 17:10:12

Middle Channel / 1.4MHz / 64QAM



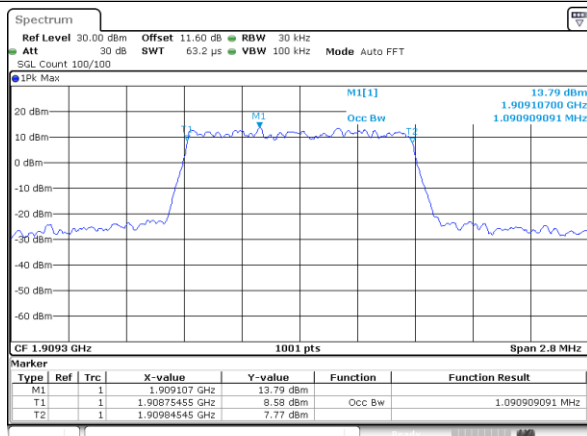
Date: 28.MAR.2020 18:15:13

Middle Channel / 3MHz / 64QAM



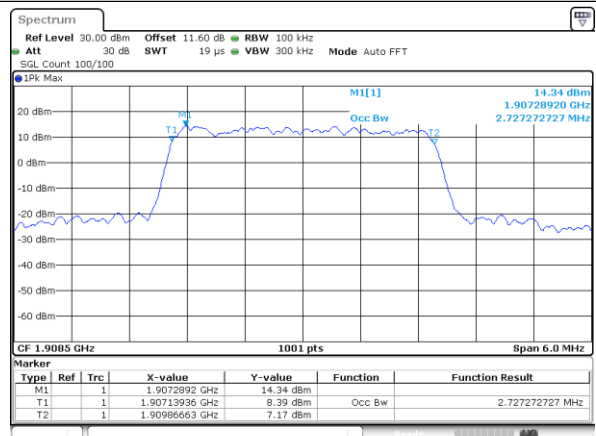
Date: 28.MAR.2020 17:12:58

Highest Channel / 1.4MHz / 64QAM



Date: 28.MAR.2020 18:16:27

Highest Channel / 3MHz / 64QAM



Date: 28.MAR.2020 17:14:23