

FCC RF Test Report

APPLICANT : OnePlus Technology (Shenzhen) Co., Ltd.
EQUIPMENT : Smart Phone
BRAND NAME : ONEPLUS
MODEL NAME : KB2005
FCC ID : 2ABZ2-EF009
STANDARD : 47 CFR Part 2, 22, 24, 27
CLASSIFICATION : PCS Licensed Transmitter Held to Ear (PCE)

The product was received on Jun. 15, 2020 and completely tested on Aug. 04, 2020. We, Sporton International (ShenZhen) Inc., would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.26-2015 and shown compliance with the applicable technical standards.

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



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People's Republic of China



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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FG061509-03D	Rev. 01	Initial issue of report	Aug. 25, 2020

SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.4	§2.1046	Conducted Output Power	Reporting Only	PASS	-
	§22.913(a)(5)	Effective Radiated Power (5G NR n5)	ERP < 7 Watt		
	§27.50(c)(10)	Effective Radiated Power (5G NR n71)	ERP < 3 Watt		
	§24.232(c) §27.50(h)(2)	Equivalent Isotropic Radiated Power (5G NR n2) (5G NR n25) (5G NR n41)	EIRP < 2Watt		
	§27.50(d)(4)	Equivalent Isotropic Radiated Power (5G NR n66)	EIRP < 1Watt		
3.5	§24.232(d)	Peak-to-Average Ratio	<13 dB	PASS	-
3.6	§2.1049	Occupied Bandwidth	Reporting Only	PASS	-
3.7	§2.1051 §22.917(a) §24.238(a) §27.53(g)	Conducted Band Edge Measurement (5G NR n2) (5G NR n5) (5G NR n25) (5G NR n66) (5G NR n71)	< 43+10log ₁₀ (P[Watts])	PASS	-
	§27.53(m)(4)	Conducted Band Edge Measurement (5G NR n41)	§27.53(m)(4)		
3.8	§2.1051 §22.917(a) §24.238(a) §27.53(g)	Conducted Spurious Emission (5G NR n2) (5G NR n5) (5G NR n25) (5G NR n66) (5G NR n71)	< 43+10log ₁₀ (P[Watts])	PASS	-
	§2.1051 §27.53(m)(4)	Conducted Spurious Emission (5G NR n41)	< 55+10log ₁₀ (P[Watts])		
3.9	§2.1055 §22.355	Frequency Stability Temperature & Voltage	< 2.5 ppm for Part 22	PASS	-
	§2.1055 §24.235 §27.54		Within Authorized Band		
4.4	§2.1053 §22.917(a) §24.238(a) §27.53(g)	Radiated Spurious Emission (5G NR n2) (5G NR n5) (5G NR n25) (5G NR n66) (5G NR n71)	< 43+10log ₁₀ (P[Watts])	PASS	Under limit 24.85 dB at 10684.000 MHz
	§2.1053 §27.53(m)(4)	Radiated Spurious Emission (5G NR n41)	< 55+10log ₁₀ (P[Watts])		



1 General Description

1.1 Applicant

OnePlus Technology (Shenzhen) Co., Ltd.

18C02, 18C03, 18C04,18C05, Shum Yip Terra Building, Binhe Avenue North, Futian District, Shenzhen,Guangdong,China

1.2 Manufacturer

OnePlus Technology (Shenzhen) Co., Ltd.

18C02, 18C03, 18C04,18C05, Shum Yip Terra Building, Binhe Avenue North, Futian District, Shenzhen,Guangdong,China

1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	Smart Phone
Brand Name	ONEPLUS
Model Name	KB2005
FCC ID	2ABZ2-EF009
EUT supports Radios application	CDMA/GSM/WCDMA/LTE/5G NR WLAN 2.4GHz 802.11b/g/n HT20/HT40 WLAN 2.4GHz 802.11ax HE20/HE40 WLAN 5GHz 802.11a/n HT20/HT40 WLAN 5GHz 802.11ac VHT20/VHT40/VHT80 WLAN 5GHz 802.11ax HE20/HE40/HE80 Bluetooth BR / EDR / LE / ANT+ GNSS/NFC
IMEI Code	Conducted : 990016770042156 Radiation : 990016770041927
HW Version	13
SW Version	OXYGEN OS 11. KB05AA
EUT Stage	Production Unit

Remark:

1. Only 5G NR bands are tested in this report, all the other RF bands are tested in the other reports separately.
2. 5G NR n2/n25/n41/n66/n71 supports SA and NSA mode, 5G NR n5 supports NSA mode only. For all SA mode are fully test. For NSA mode of all 5G NR, we only show the combination of the maximum power among all NSA combinations in the report.
3. 5G NR supports CP-OFDM and DFT-s-OFDM modulation, DFT-s-OFDM power is higher than CP-OFDM, so only DFT-s-OFDM modulation is perform for all test.
4. For the DFT-s-OFDM modulation mode, after comparing the maximum power, the PI/2 BPSK and QPSK modes were fully tested.
5. 5G NR n41 supports HPUE.

6. This is a variant report for KB2005. For model change note, Please refer to the product equality declaration exhibit submitted. According to the PED, the change has no influence on the test results, all the test results are leveraged from original report FG061509D.

1.4 Product Specification of Equipment Under Test

Standards-related Product Specification	
Tx Frequency	5G NR n2: 1852.5 MHz ~ 1907.5 MHz 5G NR n5: 826.5 MHz ~ 846.5 MHz 5G NR n25: 1852.5 MHz ~ 1912.5 MHz 5G NR n41: 2506 MHz ~ 2680 MHz 5G NR n66: 1712.5 MHz ~ 1777.5 MHz 5G NR n71: 665.5 MHz ~ 695.5MHz
Rx Frequency	5G NR n2: 1932.5 MHz ~ 1987.5 MHz 5G NR n5: 871.5 MHz ~ 891.5 MHz 5G NR n25: 1932.5 MHz ~ 1992.5 MHz 5G NR n41: 2506 MHz ~ 2680 MHz 5G NR n66: 2112.5 MHz~ 2197.5 MHz 5G NR n71: 619.5 MHz ~ 649.5MHz
Bandwidth	n2, n5, n25, n66, n71: 5MHz / 10MHz / 15MHz / 20MHz n41 : 20MHz / 40MHz / 50MHz / 60MHz / 80MHz / 90MHz / 100MHz
SCS	n2, n5, n25, n66, n71: 15KHz n41 : 30KHz
Antenna Gain	Top Antenna: 5G NR n2: -2.0 dBi 5G NR n5: -5.5 dBi 5G NR n25: -2.0 dBi 5G NR n41: -1.5 dBi 5G NR n66: -2.0 dBi 5G NR n71: -6.0 dBi Boottom Antenna: 5G NR n2: -1.0 dBi 5G NR n5: -4.0 dBi 5G NR n25: -1.0 dBi 5G NR n41: -0.5 dBi 5G NR n66: -1.0 dBi 5G NR n71: -4.5 dBi
Type of Modulation	CP-OFDM: QPSK / 16QAM / 64QAM / 256QAM DFT-s-OFDM: PI/2 BPSK / QPSK / 16QAM / 64QAM / 256QAM

1.5 Modification of EUT

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

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

5G NR n2 (EN DC_5A-n2A)		PI/2 BPSK		QPSK	
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)
5	1852.5 ~ 1907.5	4M46F9W	0.1518	4M46G7D	0.1518
10	1855.0 ~ 1905.0	8M91F9W	0.1507	8M93G7D	0.1487
20	1860.0 ~ 1900.0	18M0F9W	0.1629	17M9G7D	0.1625
Frequency Tolerance (ppm)		0.0019			

5G NR n5 (EN DC_66A-n5A)		PI/2 BPSK		QPSK	
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)	Maximum ERP(W)	Emission Designator (99%OBW)	Maximum ERP(W)
5	826.5 ~ 846.5	4M45F9W	0.0457	4M47G7D	0.0434
10	829.0 ~ 844.0	8M93F9W	0.0427	8M93G7D	0.0434
20	834.0 ~ 839.0	18M8F9W	0.0440	18M7G7D	0.0417
Frequency Tolerance (ppm)		0.0019			

5G NR n25 (EN DC_12A-n25A)		PI/2 BPSK		QPSK	
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)
5	1852.5 ~ 1912.5	4M49F9W	0.1581	4M53G7D	0.1514
10	1855.0 ~ 1910.0	8M93F9W	0.1514	8M91G7D	0.1553
20	1860.0 ~ 1905.0	17M9F9W	0.1532	17M9G7D	0.1637
Frequency Tolerance (ppm)		0.0025			



5G NR n41 (EN DC_2A-n41A)		PI/2 BPSK		QPSK	
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)
20	2506.02 ~ 2679.99	17M9F9W	0.3761	17M9G7D	0.3796
60	2526.00 ~ 2659.98	58M0F9W	0.3664	58M0G7D	0.3656
100	2546.01 ~ 2640.00	96M5F9W	0.3800	96M1G7D	0.3785
Frequency Tolerance (ppm)		0.0028			

5G NR n66 (EN DC_5A-n66A)		PI/2 BPSK		QPSK	
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)
5	1712.5 ~ 1777.5	4M53F9W	0.1625	4M47G7D	0.1618
10	1715.0 ~ 1775.0	8M93F9W	0.1621	8M93G7D	0.1567
20	1720.0 ~ 1770.0	17M9F9W	0.1644	18M0G7D	0.1610
Frequency Tolerance (ppm)		0.0020			

5G NR n71 (EN DC_66A-n71A)		PI/2 BPSK		QPSK	
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)	Maximum ERP(W)	Emission Designator (99%OBW)	Maximum ERP(W)
5	665.5 ~ 695.5	4M52F9W	0.0438	4M46G7D	0.0432
10	668.0 ~ 693.0	8M93F9W	0.0434	8M87G7D	0.0428
20	673.0 ~ 688.0	17M9F9W	0.0445	18M0G7D	0.0436
Frequency Tolerance (ppm)		0.0021			



5G NR n2		PI/2 BPSK		QPSK	
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)
5	1852.5 ~ 1907.5	4M47F9W	0.1694	4M49G7D	0.1671
10	1855.0 ~ 1905.0	8M91F9W	0.1644	8M91G7D	0.1652
20	1860.0 ~ 1900.0	17M9F9W	0.1652	18M0G7D	0.1648
Frequency Tolerance (ppm)		0.0025			

5G NR n25		PI/2 BPSK		QPSK	
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)
5	1852.5 ~ 1912.5	4M47F9W	0.1596	4M51G7D	0.1622
10	1855.0 ~ 1910.0	8M95F9W	0.1596	8M91G7D	0.1589
20	1860.0 ~ 1905.0	18M0F9W	0.1626	17M9G7D	0.1614
Frequency Tolerance (ppm)		0.0021			

5G NR n41		PI/2 BPSK		QPSK	
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)
20	2506.02 ~ 2679.99	17M9F9W	0.3319	17M9G7D	0.3342
60	2526.00 ~ 2659.98	58M0F9W	0.3266	58M1G7D	0.3304
100	2546.01 ~ 2640.00	96M3F9W	0.3221	96M3G7D	0.3243
Frequency Tolerance (ppm)		0.0023			



5G NR n66		PI/2 BPSK		QPSK	
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)
5	1712.5 ~ 1777.5	4M51F9W	0.1690	4M48G7D	0.1683
10	1715.0 ~ 1775.0	8M95F9W	0.1687	8M99G7D	0.1683
20	1720.0 ~ 1770.0	17M8F9W	0.1726	17M9G7D	0.1675
Frequency Tolerance (ppm)		0.0028			

5G NR n71		PI/2 BPSK		QPSK	
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)	Maximum ERP(W)	Emission Designator (99%OBW)	Maximum ERP(W)
5	665.5 ~ 695.5	4M48F9W	0.0467	4M49G7D	0.0458
10	668.0 ~ 693.0	8M97F9W	0.0480	8M93G7D	0.0478
20	673.0 ~ 688.0	17M9F9W	0.0472	17M9G7D	0.0461
Frequency Tolerance (ppm)		0.0028			

1.7 Testing Location

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

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

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

1.8 Test Software

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

1.9 Applicable Standards

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

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

Remark:

All test items were verified and recorded according to the standards and without any deviation during the test.

2 Test Configuration of Equipment Under Test

2.1 Test Mode

Antenna port conducted and radiated test items 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. The worst cases (Y plane) were recorded in this report.

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.

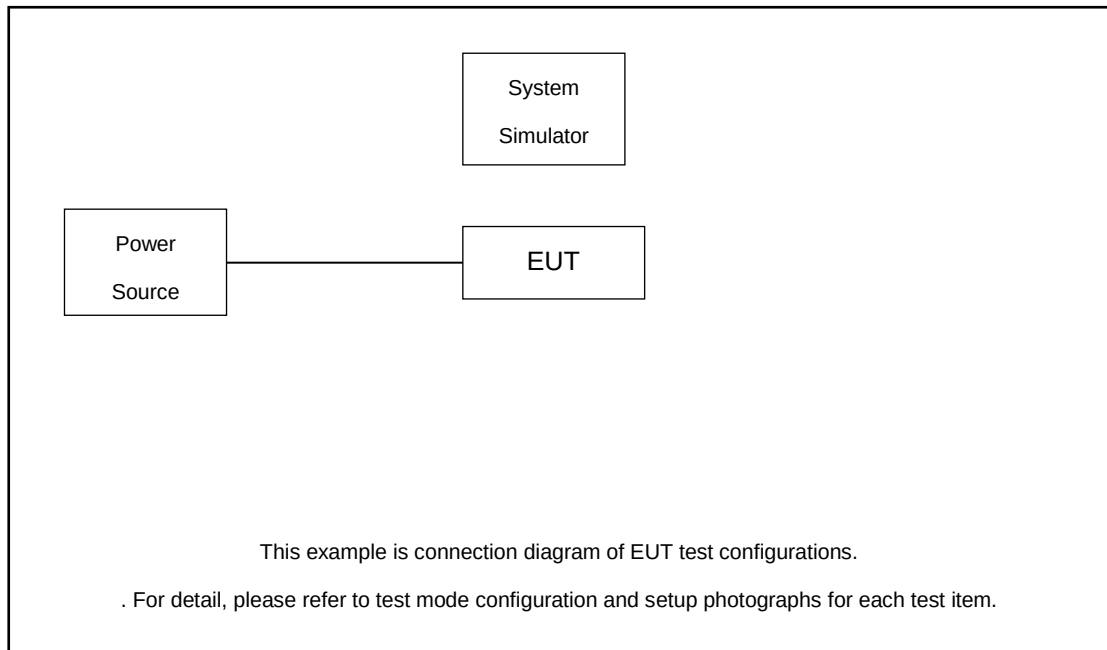
Orthogonal Planes of EUT	X Plane	Y Plane	Z Plane
			

Test Items	5G NR	Bandwidth (MHz)						Modulation					RB #			Test Channel		
		5	10	15	20	60	100	PI/2 BPSK	QPSK	16QAM	64QAM	256QAM	1	Half	Full	L	M	H
Max. Output Power	n2	v	v	v	v	-	-	v	v				v		v	v	v	v
	n5	v	v	v	v	-	-	v	v				v		v	v	v	v
	n25	v	v	v	v	-	-	v	v				v		v	v	v	v
	n41	-	-	-	v	v	v	v	v				v		v	v	v	v
	n66	v	v	v	v	-	-	v	v				v		v	v	v	v
	n71	v	v	v	v	-	-	v	v				v		v	v	v	v
Peak-to-Average Ratio	n2				v	-	-	v	v				v		v	v	v	v
	n5				v	-	-	v	v				v		v	v	v	v
	n25				v	-	-	v	v				v		v	v	v	v
	n41	-	-	-			v	v	v				v		v	v	v	v
	n66				v	-	-	v	v				v		v	v	v	v
	n71				v	-	-	v	v				v		v	v	v	v
26dB and 99% Bandwidth	n2	v	v		v	-	-	v	v						v	v	v	v
	n5	v	v		v	-	-	v	v						v	v	v	v
	n25	v	v		v	-	-	v	v						v	v	v	v
	n41	-	-	-	v	v	v	v	v						v	v	v	v
	n66	v	v		v	-	-	v	v						v	v	v	v
	n71	v	v		v	-	-	v	v						v	v	v	v



Test Items	Band	Bandwidth (MHz)						Modulation					RB #			Test Channel		
		5	10	15	20	60	100	PI/2 BPSK	QPSK	16QAM	64QAM	256QAM	1	Half	Full	L	M	H
Conducted Band Edge	n2	v	v		v	-	-	v	v				v		v	v		v
	n5	v	v		v	-	-	v	v				v		v	v		v
	n25	v	v		v	-	-	v	v				v		v	v		v
	n41	-	-	-	v	v	v	v	v				v		v	v		v
	n66	v	v		v	-	-	v	v				v		v	v		v
	n71	v	v		v	-	-	v	v				v		v	v		v
Conducted Spurious Emission	n2	v	v		v	-	-	v	v				v			v	v	v
	n5	v	v		v	-	-	v	v				v			v	v	v
	n25	v	v		v	-	-	v	v				v			v	v	v
	n41	-	-	-	v	v	v	v	v				v			v	v	v
	n66	v	v		v	-	-	v	v				v			v	v	v
	n71	v	v		v	-	-	v	v				v			v	v	v
Frequency Stability	n2				v	-	-	v							v		v	
	n5				v	-	-	v							v		v	
	n25				v	-	-	v							v		v	
	n41	-	-	-	v			v							v		v	
	n66				v	-	-	v							v		v	
	n71				v	-	-	v							v		v	
E.R.P / E.I.R.P	n2	v	v		v	-	-	v	v				v		v	v	v	v
	n5	v	v		v	-	-	v	v				v		v	v	v	v
	n25	v	v		v	-	-	v	v				v		v	v	v	v
	n41	-	-	-	v	v	v	v	v				v		v	v	v	v
	n66	v	v		v	-	-	v	v				v		v	v	v	v
	n71	v	v		v	-	-	v	v				v		v	v	v	v
Radiated Spurious Emission	n2	Worst Case														v	v	v
	n5	Worst Case														v	v	v
	n25	Worst Case														v	v	v
	n41	Worst Case														v	v	v
	n66	Worst Case														v	v	v
	n71	Worst Case														v	v	v
Note	1. The mark “v ” means that this configuration is chosen for testing 2. The mark “-” means that this bandwidth is not supported. 3. The device is investigated from 30MHz to 10 times of fundamental signal for radiated spurious emission test under different RB size/offset and modulations in exploratory test. Subsequently, only the worst case emissions are reported.																	

2.2 Connection Diagram of Test System



2.3 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model No.	FCC ID	Data Cable	Power Cord
1.	DC Power Supply	GW	GPS-3030D	N/A	N/A	Unshielded, 1.8 m
2.	Base Station	Keysight	UXM E7515B	Fcc DoC	N/A	Unshielded, 1.5 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 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.

Offset = RF cable loss.

Following shows an offset computation example with cable loss 8.4 dB.

Example :

$$\begin{aligned} \text{Offset(dB)} &= \text{RF cable loss(dB)}. \\ &= 8.4 \text{ (dB)} \end{aligned}$$



2.5 Frequency List of Low/Middle/High Channels

5G NR n2 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	372000	376000	380000
	Frequency	1860	1880	1900
15	Channel	371500	376000	380500
	Frequency	1857.5	1880	1902.5
10	Channel	371000	376000	381000
	Frequency	1855	1880	1905
5	Channel	370500	376000	381500
	Frequency	1852.5	1880	1907.5

5G NR n5 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	166800	167300	167800
	Frequency	834	836.5	839
15	Channel	166300	167300	168300
	Frequency	831.5	836.5	841.5
10	Channel	165800	167300	168800
	Frequency	829	836.5	844
5	Channel	165300	167300	169300
	Frequency	826.5	836.5	846.5

5G NR n25 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	372000	376500	381000
	Frequency	1860	1882.5	1905
15	Channel	371500	376500	381500
	Frequency	1857.5	1882.5	1907.5
10	Channel	371000	376500	382000
	Frequency	1855	1882.5	1910
5	Channel	370500	376500	382500
	Frequency	1852.5	1882.5	1912.5



5G NR n41 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
100	Channel	509202	518598	528000
	Frequency	2546.01	2592.99	2640
90	Channel	508200	518598	528996
	Frequency	2541	2592.99	2644.98
80	Channel	507204	518598	529998
	Frequency	2536.02	2592.99	2649.99
60	Channel	505200	518598	531996
	Frequency	2526	2592.99	2659.98
50	Channel	504204	518598	532998
	Frequency	2521.02	2592.99	2664.99
40	Channel	503202	518598	534000
	Frequency	2516.01	2592.99	2670
20	Channel	501204	518598	535998
	Frequency	2506.02	2592.99	2679.99

5G NR n66 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	344000	349000	354000
	Frequency	1720	1745	1770
15	Channel	343500	349000	354500
	Frequency	1717.5	1745	1772.5
10	Channel	343000	349000	355000
	Frequency	1715	1745	1775
5	Channel	342500	349000	355500
	Frequency	1712.5	1745	1777.5



5G NR n71 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	134600	136100	137600
	Frequency	673	680.5	688
15	Channel	134100	136100	138100
	Frequency	670.5	680.5	690.5
10	Channel	133600	136100	138600
	Frequency	668	680.5	693
5	Channel	133100	136100	139100
	Frequency	665.5	680.5	695.5

3 Conducted Test Items

3.1 Measuring Instruments

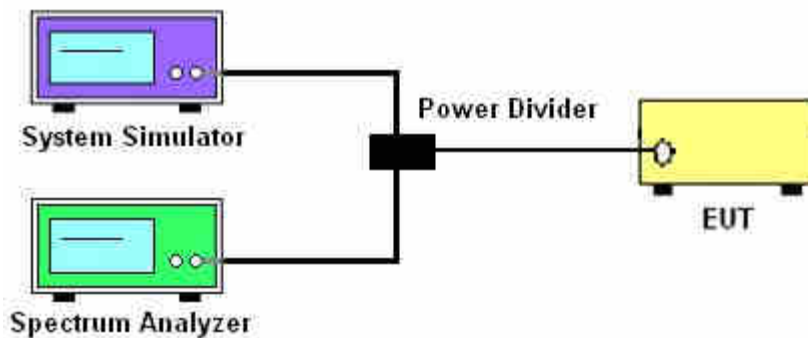
See list of measuring instruments of this test report.

3.2 Test Setup

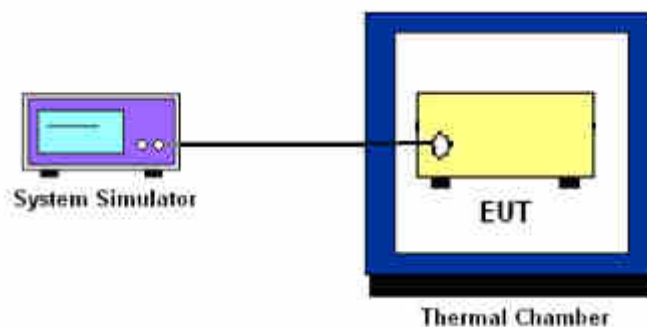
3.2.1 Conducted Output Power



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



3.2.3 Frequency Stability



3.3 Test Result of Conducted Test

Please refer to Appendix A.

3.4 Conducted Output Power and ERP/EIRP

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

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

The ERP of mobile transmitters must not exceed 7 Watts for 5G NR n5.

The ERP of mobile transmitters must not exceed 3 Watts for 5G NR n71.

The EIRP of mobile transmitters must not exceed 2 Watts for 5G NR n2, n25 and n41.

The EIRP of mobile transmitters must not exceed 1 Watts for 5G NR n66.

According to KDB 412172 D01 Power Approach,

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

P_T = transmitter output power in dBm

G_T = gain of the transmitting antenna in dBi

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

3.4.2 Test Procedures

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

3.5 Peak-to-Average Ratio

3.5.1 Description of the PAR Measurement

Power Complementary Cumulative Distribution Function (CCDF) curves provide a means for characterizing the power peaks of a digitally modulated signal on a statistical basis. A CCDF curve depicts the probability of the peak signal amplitude exceeding the average power level. Most contemporary measurement instrumentation include the capability to produce CCDF curves for an input signal provided that the instrument's resolution bandwidth can be set wide enough to accommodate the entire input signal bandwidth. In measuring transmissions in this band using an average power technique, the peak-to-average ratio (PAR) of the transmission may not exceed 13 dB.

3.5.2 Test Procedures

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

3.6 Occupied Bandwidth

3.6.1 Description of Occupied Bandwidth Measurement

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

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

3.6.2 Test Procedures

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

3.7 Conducted Band Edge

3.7.1 Description of Conducted Band Edge Measurement

22.917(a)

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

24.238 (a)

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

27.53 (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(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 that $43 + 10 \log (P)$ 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.

3.7.2 Test Procedures

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

Example:

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

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

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

9. For 5G NR n41, the other 40 dB, and 55 dB have additionally applied same calculation above.

3.8 Conducted Spurious Emission

3.8.1 Description of Conducted Spurious Emission Measurement

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

For 5G NR n41:

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.

3.8.2 Test Procedures

1. The testing follows ANSI C63.26 section 5.7
2. The EUT was connected to spectrum analyzer and system simulator via a power divider.
3. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator.
The path loss was compensated to the results for each measurement.
4. The middle channel for the highest RF power within the transmitting frequency was measured.
5. The conducted spurious emission for the whole frequency range was taken.
6. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz.
7. Set spectrum analyzer with RMS detector.
8. Taking the record of maximum spurious emission.
9. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
10. The limit line is derived from $43 + 10\log(P)$ dB below the transmitter power P(Watts)
 $= P(W) - [43 + 10\log(P)]$ (dB)
 $= [30 + 10\log(P)]$ (dBm) - $[43 + 10\log(P)]$ (dB)
 $= -13$ dBm.
11. For 5G NR n41
The limit line is derived from $55 + 10\log(P)$ dB below the transmitter power P(Watts)
 $= P(W) - [55 + 10\log(P)]$ (dB)
 $= [30 + 10\log(P)]$ (dBm) - $[55 + 10\log(P)]$ (dB)
 $= -25$ dBm.

3.9 Frequency Stability

3.9.1 Description of Frequency Stability Measurement

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

3.9.2 Test Procedures for Temperature Variation

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

3.9.3 Test Procedures for Voltage Variation

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

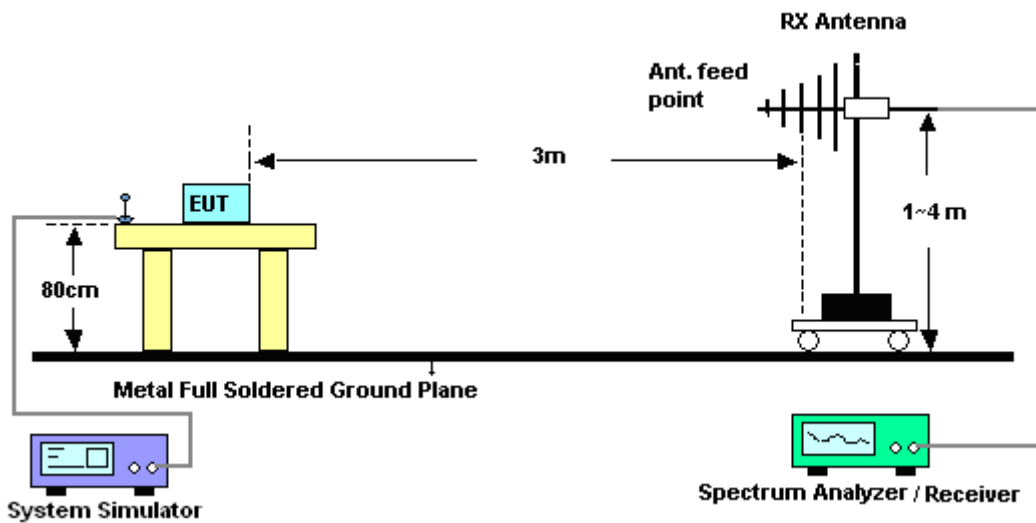
4 Radiated Test Items

4.1 Measuring Instruments

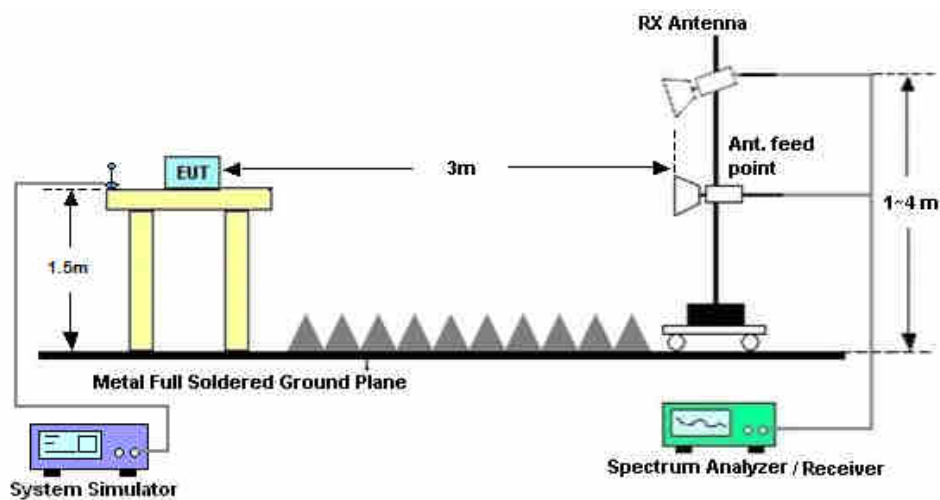
See list of measuring instruments of this test report.

4.2 Test Setup

4.2.1 For radiated test from 30MHz to 1GHz



4.2.2 For radiated test above 1GHz



4.3 Test Result of Radiated Test

Please refer to Appendix B.

4.4 Radiated Spurious Emission

4.4.1 Description of Radiated Spurious Emission

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

For 5G NR n41

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.

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

4.4.2 Test Procedures

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

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

13. For 5G NR n41:

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



5 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSV40	101078	10Hz~40GHz	Apr. 17, 2020	Jul. 18, 2020~ Aug. 04, 2020	Apr. 16, 2021	Conducted (TH01-SZ)
Thermal Chamber	Ten Billion Hongzhonggroup	LP-150U	H2014081803	-40~+150°C	Dec. 23, 2019	Jul. 18, 2020~ Aug. 04, 2020	Dec. 22, 2020	Conducted (TH01-SZ)
EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY55150213	10Hz~44GHz	Apr. 17, 2020	Jul. 28, 2020~ Jul. 30, 2020	Apr. 16, 2021	Radiation (03CH02-SZ)
Bilog Antenna	TeseQ	CBL6112D	35407	30MHz~2GHz	Jul. 15, 2020	Jul. 28, 2020~ Jul. 30, 2020	Jul. 14, 2021	Radiation (03CH02-SZ)
Double Ridge Horn Antenna	ETS-Lindgren	3117	00119436	1GHz~18GHz	Jul. 25, 2020	Jul. 28, 2020~ Jul. 30, 2020	Jul. 24, 2021	Radiation (03CH02-SZ)
SHF-EHF Horn	com-power	AH-840	101071	18GHz~40GHz	Apr. 17, 2020	Jul. 28, 2020~ Jul. 30, 2020	Apr. 16, 2021	Radiation (03CH02-SZ)
LF Amplifier	Burgeon	BPA-530	102211	0.01~3000Mhz	Oct. 18, 2019	Jul. 28, 2020~ Jul. 30, 2020	Oct. 17, 2020	Radiation (03CH02-SZ)
HF Amplifier	KEYSIGHT	83017A	MY53270105	0.5GHz~26.5Ghz	Oct. 18, 2019	Jul. 28, 2020~ Jul. 30, 2020	Oct. 17, 2020	Radiation (03CH02-SZ)
HF Amplifier	MITEQ	TTA1840-35-HG	1871923	18GHz~40GHz	Jul. 21, 2020	Jul. 28, 2020~ Jul. 30, 2020	Jul. 20, 2021	Radiation (03CH02-SZ)
AC Power Source	Chroma	61601	616010002470	N/A	NCR	Jul. 28, 2020~ Jul. 30, 2020	NCR	Radiation (03CH02-SZ)
Turn Table	Chaintek	T-200	N/A	0~360 degree	NCR	Jul. 28, 2020~ Jul. 30, 2020	NCR	Radiation (03CH02-SZ)
Antenna Mast	Chaintek	MBS-400	N/A	1 m~4 m	NCR	Jul. 28, 2020~ Jul. 30, 2020	NCR	Radiation (03CH02-SZ)

NCR: No Calibration Required

6 Uncertainty of Evaluation

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

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_c(y)$)	2.47dB
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Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_c(y)$)	3.31dB
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Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_c(y)$)	3.72dB
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Appendix A. Test Results of Conducted Test

Conducted Output Power(Average power and EIRP)

5G NR n2-NSA

EN-DC n2 (ANT3)+5A (ANT1)Combination 20MHz+10MHz(LTE)(GT - LC = -1 dB)									
Channel	Mode	NR		LTE		Conducted		EIRP	
		RB		RB					
		Size	Offset	Size	Offset	Power(dBm)	Power(Watts)	EIRP(dBm)	EIRP(W)
Lowest	PI/2 BPSK DFT-s-OFDM	1	1	1	0	23.04	0.2014	22.04	0.16
		1	104	1	49	23.12	0.2051	22.12	0.1629
		50	25	50	0	23.03	0.2009	22.03	0.1596
	QPSK DFT-s-OFDM	1	1	1	0	23.01	0.2	22.01	0.1589
		1	104	1	49	22.99	0.1991	21.99	0.1581
		50	25	50	0	23.10	0.2042	22.10	0.1622
	16QAM DFT-s-OFDM	1	1	1	0	21.98	0.1576	20.98	0.1252
		1	104	1	49	22.34	0.1716	21.34	0.1363
		50	25	50	0	22.50	0.1779	21.50	0.1413
	64QAM DFT-s-OFDM	1	1	1	0	21.04	0.1271	20.04	0.101
		1	104	1	49	21.19	0.1316	20.19	0.1045
		50	25	50	0	21.03	0.1268	20.03	0.1007
	256QAM DFT-s-OFDM	1	1	1	0	20.64	0.1157	19.64	0.0919
		1	104	1	49	20.88	0.1225	19.88	0.0973
		50	25	50	0	21.06	0.1277	20.06	0.1014
Middle	PI/2 BPSK DFT-s-OFDM	1	1	1	0	22.98	0.1986	21.98	0.1578
		1	104	1	49	22.93	0.1964	21.93	0.156
		50	25	50	0	22.97	0.1982	21.97	0.1574
	QPSK DFT-s-OFDM	1	1	1	0	22.84	0.1923	21.84	0.1528
		1	104	1	49	23.11	0.2046	22.11	0.1625
		50	25	50	0	22.88	0.1941	21.88	0.1542
	16QAM DFT-s-OFDM	1	1	1	0	22.15	0.1642	21.15	0.1305
		1	104	1	49	21.53	0.1422	20.53	0.1129
		50	25	50	0	22.33	0.1711	21.33	0.1359
	64QAM DFT-s-OFDM	1	1	1	0	21.36	0.1368	20.36	0.1086
		1	104	1	49	20.71	0.1179	19.71	0.0936
		50	25	50	0	20.77	0.1195	19.77	0.0949
	256QAM DFT-s-OFDM	1	1	1	0	20.98	0.1254	19.98	0.0996
		1	104	1	49	20.41	0.1098	19.41	0.0872
		50	25	50	0	20.82	0.1209	19.82	0.096
	QPSK CP-OFDM	1	1	1	0	22.09	0.1616	21.09	0.1284
		1	104	1	49	21.44	0.1393	20.44	0.1106
		50	25	50	0	22.25	0.168	21.25	0.1335
	16QAM CP-OFDM	1	1	1	0	21.51	0.1415	20.51	0.1124
		1	104	1	49	21.59	0.1441	20.59	0.1145
		50	25	50	0	21.75	0.1495	20.75	0.1188
	64QAM CP-OFDM	1	1	1	0	20.77	0.1195	19.77	0.0949
		1	104	1	49	20.64	0.1158	19.64	0.0919
		50	25	50	0	20.45	0.1108	19.45	0.088
	256QAM CP-OFDM	1	1	1	0	20.23	0.1054	19.23	0.0837
		1	104	1	49	20.19	0.1044	19.19	0.083
		50	25	50	0	20.45	0.1108	19.45	0.088
Highest	PI/2 BPSK DFT-s-OFDM	1	1	1	0	23.12	0.2051	22.12	0.1629
		1	104	1	49	22.87	0.1937	21.87	0.1538
		50	25	50	0	22.89	0.1946	21.89	0.1545
	QPSK DFT-s-OFDM	1	1	1	0	22.75	0.1884	21.75	0.1497
		1	104	1	49	22.66	0.1846	21.66	0.1466
		50	25	50	0	22.90	0.195	21.90	0.1549
	16QAM DFT-s-OFDM	1	1	1	0	22.13	0.1635	21.13	0.1299
		1	104	1	49	21.53	0.1422	20.53	0.113
		50	25	50	0	22.23	0.1673	21.23	0.1329
	64QAM DFT-s-OFDM	1	1	1	0	21.36	0.1367	20.36	0.1086
		1	104	1	49	20.80	0.1203	19.80	0.0956
		50	25	50	0	20.85	0.1217	19.85	0.0967
	256QAM DFT-s-OFDM	1	1	1	0	21.04	0.1271	20.04	0.101
		1	104	1	49	20.40	0.1096	19.40	0.087
		50	25	50	0	20.83	0.1212	19.83	0.0962
Limit	EIRP < 2W					Result		PASS	

EN-DC n2 (ANT3)+5A (ANT1)Combination 10MHz+10MHz(LTE)(GT - LC = -1 dB)									
Channel	Mode	NR		LTE		Conducted		EIRP	
		RB		RB					
		Size	Offset	Size	Offset	Power(dBm)	Power(Watts)	EIRP(dBm)	EIRP(W)
Lowest	PI/2 BPSK DFT-s-OFDM	1	1	1	0	22.68	0.1855	21.68	0.1473
		1	50	1	49	22.66	0.1846	21.66	0.1466
		25	12	50	0	22.78	0.1898	21.78	0.1507
	QPSK DFT-s-OFDM	1	1	1	0	22.58	0.1813	21.58	0.144
		1	50	1	49	22.57	0.1809	21.57	0.1437
		25	12	50	0	22.72	0.1872	21.72	0.1487
	16QAM DFT-s-OFDM	1	1	1	0	21.89	0.1544	20.89	0.1226
		1	104	1	49	22.10	0.162	21.10	0.1287
		50	25	50	0	22.33	0.1711	21.33	0.1359
	64QAM DFT-s-OFDM	1	1	1	0	20.90	0.1231	19.90	0.0978
		1	104	1	49	20.80	0.1203	19.80	0.0956
		50	25	50	0	20.88	0.1226	19.88	0.0973
	256QAM DFT-s-OFDM	1	1	1	0	20.77	0.1195	19.77	0.0949
		1	104	1	49	20.86	0.122	19.86	0.0969
		50	25	50	0	20.87	0.1223	19.87	0.0971
Middle	PI/2 BPSK DFT-s-OFDM	1	1	1	0	22.63	0.1834	21.63	0.1456
		1	50	1	49	22.65	0.1842	21.65	0.1463
		25	12	50	0	22.73	0.1876	21.73	0.149
	QPSK DFT-s-OFDM	1	1	1	0	22.51	0.1784	21.51	0.1417
		1	50	1	49	22.51	0.1784	21.51	0.1417
		25	12	50	0	22.70	0.1863	21.70	0.148
	16QAM DFT-s-OFDM	1	1	1	0	22.13	0.1635	21.13	0.1299
		1	104	1	49	22.21	0.1665	21.21	0.1323
		50	25	50	0	22.65	0.1842	21.65	0.1463
	64QAM DFT-s-OFDM	1	1	1	0	21.19	0.1316	20.19	0.1045
		1	104	1	49	21.19	0.1315	20.19	0.1045
		50	25	50	0	21.15	0.1303	20.15	0.1035
	256QAM DFT-s-OFDM	1	1	1	0	21.10	0.1288	20.10	0.1023
		1	104	1	49	21.10	0.1289	20.10	0.1024
		50	25	50	0	21.08	0.1283	20.08	0.1019
	QPSK CP-OFDM	1	1	1	0	22.27	0.1688	21.27	0.1341
		1	104	1	49	22.30	0.17	21.30	0.135
		50	25	50	0	22.24	0.1676	21.24	0.1332
	16QAM CP-OFDM	1	1	1	0	21.60	0.1445	20.60	0.1148
		1	104	1	49	21.70	0.1478	20.70	0.1174
		50	25	50	0	21.63	0.1455	20.63	0.1156
	64QAM CP-OFDM	1	1	1	0	20.30	0.1071	19.30	0.0851
		1	104	1	49	20.30	0.1071	19.30	0.0851
		50	25	50	0	20.41	0.1098	19.41	0.0872
	256QAM CP-OFDM	1	1	1	0	20.46	0.1111	19.46	0.0882
		1	104	1	49	20.37	0.1088	19.37	0.0864
		50	25	50	0	20.36	0.1086	19.36	0.0862
Highest	PI/2 BPSK DFT-s-OFDM	1	1	1	0	22.60	0.1821	21.60	0.1446
		1	50	1	49	22.51	0.1784	21.51	0.1417
		25	12	50	0	22.56	0.1804	21.56	0.1433
	QPSK DFT-s-OFDM	1	1	1	0	22.49	0.1776	21.49	0.1411
		1	50	1	49	22.41	0.1743	21.41	0.1385
		25	12	50	0	22.51	0.1784	21.51	0.1417
	16QAM DFT-s-OFDM	1	1	1	0	21.70	0.1478	20.70	0.1174
		1	104	1	49	21.53	0.1422	20.53	0.1129
		50	25	50	0	21.99	0.158	20.99	0.1255
	64QAM DFT-s-OFDM	1	1	1	0	20.50	0.1121	19.50	0.089
		1	104	1	49	20.48	0.1116	19.48	0.0886
		50	25	50	0	20.44	0.1106	19.44	0.0878
	256QAM DFT-s-OFDM	1	1	1	0	20.53	0.1129	19.53	0.0897
		1	104	1	49	20.54	0.1131	19.54	0.0899
		50	25	50	0	20.43	0.1103	19.43	0.0876
Limit	EIRP < 2W					Result		PASS	

EN-DC n2 (ANT3)+5A (ANT1)Combination 5MHz+10MHz(LTE)(GT - LC = -1 dB)									
Channel	Mode	NR		LTE		Conducted		EIRP	
		RB		RB					
		Size	Offset	Size	Offset	Power(dBm)	Power(Watts)	EIRP(dBm)	EIRP(W)
Lowest	PI/2 BPSK DFT-s-OFDM	1	1	1	0	22.59	0.1817	21.59	0.1443
		1	23	1	49	22.81	0.1911	21.81	0.1518
		12	6	50	0	22.73	0.1876	21.73	0.149
	QPSK DFT-s-OFDM	1	1	1	0	22.69	0.1859	21.69	0.1477
		1	23	1	49	22.62	0.1829	21.62	0.1453
		12	6	50	0	22.81	0.1911	21.81	0.1518
	16QAM DFT-s-OFDM	1	1	1	0	22.05	0.1602	21.05	0.1272
		1	104	1	49	22.18	0.1654	21.18	0.1314
		50	25	50	0	22.33	0.1712	21.33	0.136
	64QAM DFT-s-OFDM	1	1	1	0	21.05	0.1274	20.05	0.1012
		1	104	1	49	21.09	0.1286	20.09	0.1021
		50	25	50	0	20.99	0.1257	19.99	0.0998
256QAM DFT-s-OFDM	1	1	1	0	20.78	0.1198	19.78	0.0951	
	1	104	1	49	20.91	0.1234	19.91	0.098	
	50	25	50	0	20.87	0.1223	19.87	0.0971	
Middle	PI/2 BPSK DFT-s-OFDM	1	1	1	0	22.59	0.1817	21.59	0.1443
		1	23	1	49	22.76	0.1889	21.76	0.1501
		12	6	50	0	22.70	0.1863	21.70	0.148
	QPSK DFT-s-OFDM	1	1	1	0	22.49	0.1776	21.49	0.141
		1	23	1	49	22.63	0.1834	21.63	0.1456
		12	6	50	0	22.76	0.1889	21.76	0.15
	16QAM DFT-s-OFDM	1	1	1	0	22.18	0.1653	21.18	0.1313
		1	104	1	49	22.54	0.1796	21.54	0.1427
		50	25	50	0	22.66	0.1846	21.66	0.1466
	64QAM DFT-s-OFDM	1	1	1	0	21.17	0.1309	20.17	0.104
		1	104	1	49	21.41	0.1383	20.41	0.1099
		50	25	50	0	21.33	0.1358	20.33	0.1079
	256QAM DFT-s-OFDM	1	1	1	0	21.07	0.128	20.07	0.1017
		1	104	1	49	21.00	0.1259	20.00	0.1
		50	25	50	0	21.26	0.1337	20.26	0.1062
	QPSK CP-OFDM	1	1	1	0	22.13	0.1635	21.13	0.1298
		1	104	1	49	22.19	0.1657	21.19	0.1317
		50	25	50	0	22.20	0.1661	21.20	0.132
	16QAM CP-OFDM	1	1	1	0	21.66	0.1465	20.66	0.1163
		1	104	1	49	21.64	0.1458	20.64	0.1158
		50	25	50	0	21.75	0.1495	20.75	0.1188
	64QAM CP-OFDM	1	1	1	0	20.96	0.1248	19.96	0.0991
		1	104	1	49	20.91	0.1234	19.91	0.098
		50	25	50	0	20.57	0.1139	19.57	0.0905
	256QAM CP-OFDM	1	1	1	0	20.27	0.1064	19.27	0.0845
		1	104	1	49	20.51	0.1124	19.51	0.0892
		50	25	50	0	20.31	0.1073	19.31	0.0853
Highest	PI/2 BPSK DFT-s-OFDM	1	1	1	0	22.60	0.1821	21.60	0.1447
		1	23	1	49	22.64	0.1838	21.64	0.146
		12	6	50	0	22.56	0.1804	21.56	0.1433
	QPSK DFT-s-OFDM	1	1	1	0	22.40	0.174	21.40	0.1382
		1	23	1	49	22.43	0.1752	21.43	0.1391
		12	6	50	0	22.53	0.1792	21.53	0.1423
	16QAM DFT-s-OFDM	1	1	1	0	21.93	0.1558	20.93	0.1238
		1	104	1	49	21.53	0.1422	20.53	0.1129
		50	25	50	0	22.02	0.1591	21.02	0.1263
	64QAM DFT-s-OFDM	1	1	1	0	20.49	0.1118	19.49	0.0888
		1	104	1	49	20.59	0.1144	19.59	0.0909
		50	25	50	0	20.65	0.116	19.65	0.0922
256QAM DFT-s-OFDM	1	1	1	0	20.19	0.1045	19.19	0.083	
	1	104	1	49	20.43	0.1103	19.43	0.0876	
	50	25	50	0	20.52	0.1126	19.52	0.0895	
Limit	EIRP < 2W					Result		PASS	

5G NR n5-NSA

EN-DC n5 (ANT1)+66A (ANT3)Combination 20MHz+20MHz(LTE)(GT - LC = -4 dB)									
Channel	Mode	NR		LTE		Conducted		ERP	
		RB		RB					
		Size	Offset	Size	Offset	Power(dBm)	Power(Watts)	ERP(dBm)	ERP(W)
Lowest	PI/2 BPSK DFT-s-	1	1	1	0	22.58	0.1813	16.43	0.044
		1	104	1	99	22.48	0.1768	16.33	0.0429
		50	25	100	0	22.49	0.1772	16.34	0.043
	QPSK DFT-s- OFDM	1	1	1	0	22.42	0.1744	16.27	0.0423
		1	104	1	99	22.31	0.1701	16.16	0.0413
		50	25	100	0	22.53	0.1789	16.38	0.0434
	16QAM DFT-s- OFDM	1	1	1	0	21.93	0.1559	15.78	0.0378
		1	104	1	49	21.88	0.1541	15.73	0.0374
		50	25	50	0	22.18	0.1651	16.03	0.0401
	64QAM DFT-s- OFDM	1	1	1	0	20.81	0.1204	14.66	0.0292
		1	104	1	49	20.92	0.1235	14.77	0.03
		50	25	50	0	20.76	0.1191	14.61	0.0289
	256QA M DFT-s-	1	1	1	0	20.93	0.1238	14.78	0.03
		1	104	1	49	20.81	0.1204	14.66	0.0292
50		25	50	0	20.69	0.1172	14.54	0.0284	
Middle	PI/2 BPSK DFT-s-	1	1	1	0	22.51	0.178	16.36	0.0432
		1	104	1	99	22.42	0.1744	16.27	0.0423
		50	25	100	0	22.45	0.1756	16.30	0.0426
	QPSK DFT-s- OFDM	1	1	1	0	22.38	0.1728	16.23	0.0419
		1	104	1	99	22.31	0.1701	16.16	0.0413
		50	25	100	0	22.52	0.1784	16.37	0.0433
	16QAM DFT-s- OFDM	1	1	1	0	21.80	0.1513	15.65	0.0367
		1	104	1	99	21.75	0.1496	15.60	0.0363
		50	25	100	0	22.11	0.1625	15.96	0.0394
	64QAM DFT-s- OFDM	1	1	1	0	20.63	0.1156	14.48	0.0281
		1	104	1	99	20.40	0.1097	14.25	0.0266
		50	25	100	0	20.77	0.1194	14.62	0.029
	256QA M DFT-s-	1	1	1	0	20.76	0.1191	14.61	0.0289
		1	104	1	99	20.98	0.1252	14.83	0.0304
		50	25	100	0	20.61	0.115	14.46	0.0279
	QPSK CP- OFDM	1	1	1	0	21.85	0.1531	15.70	0.0372
		1	104	1	99	21.78	0.1507	15.63	0.0366
		50	25	100	0	21.55	0.1429	15.40	0.0347
	16QAM CP- OFDM	1	1	1	0	21.35	0.1366	15.20	0.0331
		1	104	1	99	21.20	0.132	15.05	0.032
		50	25	100	0	21.07	0.1278	14.92	0.031
	64QAM CP- OFDM	1	1	1	0	19.73	0.094	13.58	0.0228
		1	104	1	99	19.57	0.0906	13.42	0.022
		50	25	100	0	19.70	0.0933	13.55	0.0226
256QA M CP-	1	1	1	0	19.55	0.0902	13.40	0.0219	
	1	104	1	99	19.40	0.0871	13.25	0.0211	
	50	25	100	0	19.70	0.0933	13.55	0.0226	
Highest	PI/2 BPSK DFT-s-	1	1	1	0	22.50	0.1776	16.35	0.0431
		1	104	1	99	22.29	0.1693	16.14	0.0411
		50	25	100	0	22.45	0.1756	16.30	0.0426
	QPSK DFT-s- OFDM	1	1	1	0	22.32	0.1705	16.17	0.0414
		1	104	1	99	22.24	0.1674	16.09	0.0406
		50	25	100	0	22.36	0.172	16.21	0.0417
	16QAM DFT-s- OFDM	1	1	1	0	21.75	0.1496	15.60	0.0363
		1	104	1	49	21.62	0.1453	15.47	0.0352
		50	25	50	0	22.10	0.1621	15.95	0.0393
	64QAM DFT-s- OFDM	1	1	1	0	20.59	0.1146	14.44	0.0278
		1	104	1	49	20.56	0.1138	14.41	0.0276
		50	25	50	0	20.64	0.1159	14.49	0.0281
	256QA M DFT-s-	1	1	1	0	20.83	0.121	14.68	0.0294
		1	104	1	49	20.81	0.1204	14.66	0.0292
50		25	50	0	20.61	0.1151	14.46	0.0279	
Limit	ERP < 7W					Result		PASS	

EN-DC n5 (ANT1)+66A (ANT3)Combination 10MHz+20MHz(LTE)(GT - LC = -4 dB)									
Channel	Mode	NR		LTE		Conducted		ERP	
		RB		RB					
		Size	Offset	Size	Offset	Power(dBm)	Power(Watts)	ERP(dBm)	ERP(W)
Lowest	PI/2 BPSK DFT-s-	1	1	1	0	22.45	0.1756	16.30	0.0426
		1	50	1	99	22.75	0.1885	16.60	0.0457
		25	12	100	0	22.52	0.1789	16.37	0.0434
	QPSK DFT-s- OFDM	1	1	1	0	22.38	0.1728	16.23	0.0419
		1	50	1	99	22.30	0.1697	16.15	0.0412
		25	12	100	0	22.53	0.1789	16.38	0.0434
	16QAM DFT-s- OFDM	1	1	1	0	21.78	0.1507	15.63	0.0366
		1	104	1	49	21.64	0.1459	15.49	0.0354
		50	25	50	0	22.15	0.164	16.00	0.0398
	64QAM DFT-s- OFDM	1	1	1	0	20.71	0.1177	14.56	0.0286
		1	104	1	49	19.79	0.0952	13.64	0.0231
		50	25	50	0	20.67	0.1167	14.52	0.0283
	256QA M DFT-s-	1	1	1	0	20.82	0.1207	14.67	0.0293
		1	104	1	49	20.69	0.1172	14.54	0.0284
		50	25	50	0	20.72	0.118	14.57	0.0286
Middle	PI/2 BPSK DFT-s-	1	1	1	0	22.36	0.172	16.21	0.0417
		1	50	1	99	22.93	0.1965	16.78	0.0477
		25	12	100	0	22.45	0.1756	16.30	0.0426
	QPSK DFT-s- OFDM	1	1	1	0	22.25	0.1677	16.10	0.0407
		1	50	1	99	22.21	0.1662	16.06	0.0403
		25	12	100	0	22.42	0.1744	16.27	0.0423
	16QAM DFT-s- OFDM	1	1	1	0	21.78	0.1507	15.63	0.0366
		1	104	1	99	21.64	0.1459	15.49	0.0354
		50	25	100	0	22.15	0.164	16.00	0.0398
	64QAM DFT-s- OFDM	1	1	1	0	20.71	0.1177	14.56	0.0286
		1	104	1	99	19.79	0.0952	13.64	0.0231
		50	25	100	0	20.67	0.1167	14.52	0.0283
	256QA M DFT-s-	1	1	1	0	20.82	0.1207	14.67	0.0293
		1	104	1	99	20.69	0.1172	14.54	0.0284
		50	25	100	0	20.72	0.118	14.57	0.0286
	QPSK CP- OFDM	1	1	1	0	21.71	0.1483	15.56	0.036
		1	104	1	99	21.75	0.1496	15.60	0.0363
		50	25	100	0	21.65	0.1463	15.50	0.0355
	16QAM CP- OFDM	1	1	1	0	21.12	0.1293	14.97	0.0314
		1	104	1	99	21.17	0.1311	15.02	0.0318
		50	25	100	0	21.16	0.1308	15.01	0.0317
	64QAM CP- OFDM	1	1	1	0	19.62	0.0916	13.47	0.0222
		1	104	1	99	19.67	0.0927	13.52	0.0225
		50	25	100	0	19.65	0.0922	13.50	0.0224
	256QA M CP-	1	1	1	0	19.47	0.0885	13.32	0.0215
		1	104	1	99	19.63	0.0918	13.48	0.0223
		50	25	100	0	19.61	0.0914	13.46	0.0222
Highest	PI/2 BPSK DFT-s-	1	1	1	0	22.32	0.1705	16.17	0.0414
		1	50	1	99	22.30	0.1697	16.15	0.0412
		25	12	100	0	22.46	0.176	16.31	0.0427
	QPSK DFT-s- OFDM	1	1	1	0	22.24	0.1674	16.09	0.0406
		1	50	1	99	22.15	0.164	16.00	0.0398
		25	12	100	0	22.39	0.1732	16.24	0.042
	16QAM DFT-s- OFDM	1	1	1	0	21.80	0.1513	15.65	0.0367
		1	104	1	49	21.58	0.1439	15.43	0.0349
		50	25	50	0	22.28	0.1689	16.13	0.041
	64QAM DFT-s- OFDM	1	1	1	0	20.44	0.1107	14.29	0.0269
		1	104	1	49	20.46	0.1112	14.31	0.027
		50	25	50	0	20.61	0.1151	14.46	0.0279
	256QA M DFT-s-	1	1	1	0	20.65	0.1161	14.50	0.0282
		1	104	1	49	20.59	0.1145	14.44	0.0278
		50	25	50	0	20.59	0.1145	14.44	0.0278
Limit	ERP < 7W					Result		PASS	

EN-DC n5 (ANT1)+66A (ANT3)Combination 5MHz+20MHz(LTE)(GT - LC = -4 dB)									
Channel	Mode	NR		LTE		Conducted		ERP	
		RB		RB					
		Size	Offset	Size	Offset	Power(dBm)	Power(Watts)	ERP(dBm)	ERP(W)
Lowest	PI/2 BPSK DFT-s-	1	1	1	0	22.65	0.1843	16.50	0.0447
		1	23	1	99	22.72	0.1872	16.57	0.0454
		12	6	100	0	22.50	0.178	16.35	0.0432
	QPSK DFT-s- OFDM	1	1	1	0	22.50	0.178	16.35	0.0432
		1	23	1	99	22.36	0.172	16.21	0.0417
		12	6	100	0	22.52	0.1788	16.37	0.0434
	16QAM DFT-s- OFDM	1	1	1	0	21.82	0.1521	15.67	0.0369
		1	104	1	49	21.56	0.1433	15.41	0.0348
		50	25	50	0	22.17	0.1647	16.02	0.04
	64QAM DFT-s- OFDM	1	1	1	0	20.74	0.1185	14.59	0.0288
		1	104	1	49	20.60	0.1148	14.45	0.0279
		50	25	50	0	20.51	0.1125	14.36	0.0273
	256QA M DFT-s-	1	1	1	0	20.85	0.1215	14.70	0.0295
		1	104	1	49	20.71	0.1177	14.56	0.0286
		50	25	50	0	20.64	0.1159	14.49	0.0281
Middle	PI/2 BPSK DFT-s-	1	1	1	0	22.75	0.1885	16.60	0.0457
		1	23	1	99	22.32	0.1705	16.17	0.0414
		12	6	100	0	22.51	0.178	16.36	0.0432
	QPSK DFT-s- OFDM	1	1	1	0	22.46	0.176	16.31	0.0427
		1	23	1	99	22.32	0.1705	16.17	0.0414
		12	6	100	0	22.47	0.1768	16.32	0.0429
	16QAM DFT-s- OFDM	1	1	1	0	21.85	0.1531	15.70	0.0372
		1	104	1	99	21.85	0.1531	15.70	0.0372
		50	25	100	0	22.12	0.1629	15.97	0.0395
	64QAM DFT-s- OFDM	1	1	1	0	20.88	0.1224	14.73	0.0297
		1	104	1	99	20.89	0.1227	14.74	0.0298
		50	25	100	0	20.62	0.1153	14.47	0.028
	256QA M DFT-s-	1	1	1	0	20.57	0.114	14.42	0.0277
		1	104	1	99	20.61	0.1151	14.46	0.0279
		50	25	100	0	20.60	0.1148	14.45	0.0279
	QPSK CP- OFDM	1	1	1	0	21.62	0.1453	15.47	0.0352
		1	104	1	99	21.80	0.1514	15.65	0.0367
		50	25	100	0	21.58	0.1439	15.43	0.0349
	16QAM CP- OFDM	1	1	1	0	21.10	0.1287	14.95	0.0312
		1	104	1	99	21.08	0.1284	14.93	0.0312
		50	25	100	0	21.15	0.1305	15.00	0.0317
	64QAM CP- OFDM	1	1	1	0	19.81	0.0957	13.66	0.0232
		1	104	1	99	19.68	0.0929	13.53	0.0225
		50	25	100	0	19.56	0.0904	13.41	0.0219
	256QA M CP-	1	1	1	0	19.93	0.0983	13.78	0.0239
		1	104	1	99	19.37	0.0865	13.22	0.021
		50	25	100	0	19.68	0.093	13.53	0.0226
Highest	PI/2 BPSK DFT-s-	1	1	1	0	22.51	0.1784	16.36	0.0433
		1	23	1	99	22.34	0.1712	16.19	0.0416
		12	6	100	0	22.38	0.1728	16.23	0.0419
	QPSK DFT-s- OFDM	1	1	1	0	22.31	0.1701	16.16	0.0413
		1	23	1	99	22.35	0.1716	16.20	0.0416
		12	6	100	0	22.34	0.1713	16.19	0.0416
	16QAM DFT-s- OFDM	1	1	1	0	21.90	0.1549	15.75	0.0376
		1	104	1	49	21.75	0.1497	15.60	0.0363
		50	25	50	0	22.06	0.1606	15.91	0.039
	64QAM DFT-s- OFDM	1	1	1	0	20.94	0.1241	14.79	0.0301
		1	104	1	49	20.70	0.1174	14.55	0.0285
		50	25	50	0	20.72	0.118	14.57	0.0286
	256QA M DFT-s-	1	1	1	0	20.48	0.1117	14.33	0.0271
		1	104	1	49	20.42	0.1102	14.27	0.0267
		50	25	50	0	20.49	0.1119	14.34	0.0272
Limit	ERP < 7W					Result		PASS	

5G NR n25-NSA

EN-DC n25 (ANT3)+12A (ANT1)Combination 20MHz+10MHz(LTE)(GT - LC = -1 dB)									
Channel	Mode	NR		LTE		Conducted		EIRP	
		RB		RB					
		Size	Offset	Size	Offset	Power(dBm)	Power(Watts)	EIRP(dBm)	EIRP(W)
Lowest	PI/2 BPSK DFT-s-	1	1	1	0	22.77	0.1893	21.77	0.1504
		1	104	1	49	22.81	0.1911	21.81	0.1518
		50	25	50	0	22.84	0.1924	21.84	0.1528
	QPSK DFT-s- OFDM	1	1	1	0	22.75	0.1884	21.75	0.1497
		1	104	1	49	22.69	0.1859	21.69	0.1476
		50	25	50	0	22.83	0.1919	21.83	0.1525
	16QAM DFT-s- OFDM	1	1	1	0	21.93	0.1559	20.93	0.1238
		1	104	1	49	21.78	0.1507	20.78	0.1197
		50	25	50	0	22.31	0.1701	21.31	0.1351
	64QAM DFT-s- OFDM	1	1	1	0	20.97	0.1249	19.97	0.0992
		1	104	1	49	20.80	0.1202	19.80	0.0955
		50	25	50	0	20.85	0.1216	19.85	0.0966
256QA M DFT-s-	1	1	1	0	20.86	0.1218	19.86	0.0968	
	1	104	1	49	20.79	0.1199	19.79	0.0952	
	50	25	50	0	20.79	0.1199	19.79	0.0952	
Middle	PI/2 BPSK DFT-s-	1	1	1	0	22.85	0.1928	21.85	0.1532
		1	104	1	49	22.67	0.185	21.67	0.147
		50	25	50	0	22.85	0.1928	21.85	0.1532
	QPSK DFT-s- OFDM	1	1	1	0	23.14	0.2061	22.14	0.1637
		1	104	1	49	22.61	0.1825	21.61	0.145
		50	25	50	0	22.78	0.1897	21.78	0.1507
	16QAM DFT-s- OFDM	1	1	1	0	22.21	0.1662	21.21	0.1321
		1	104	1	99	21.73	0.149	20.73	0.1183
		50	25	100	0	22.10	0.1621	21.10	0.1288
	64QAM DFT-s- OFDM	1	1	1	0	20.68	0.1169	19.68	0.0929
		1	104	1	99	20.61	0.1151	19.61	0.0914
		50	25	100	0	20.64	0.1159	19.64	0.092
	256QA M DFT-s-	1	1	1	0	20.58	0.1143	19.58	0.0908
		1	104	1	99	20.61	0.1151	19.61	0.0914
		50	25	100	0	20.64	0.1159	19.64	0.092
	QPSK CP- OFDM	1	1	1	0	21.76	0.15	20.76	0.1191
		1	104	1	99	21.74	0.1493	20.74	0.1186
		50	25	100	0	21.67	0.1469	20.67	0.1167
	16QAM CP- OFDM	1	1	1	0	21.05	0.1272	20.05	0.101
		1	104	1	99	20.96	0.1246	19.96	0.099
		50	25	100	0	21.18	0.1314	20.18	0.1043
	64QAM CP- OFDM	1	1	1	0	19.82	0.0959	18.82	0.0762
		1	104	1	99	19.87	0.097	18.87	0.077
		50	25	100	0	19.84	0.0963	18.84	0.0765
256QA M CP-	1	1	1	0	19.82	0.0959	18.82	0.0762	
	1	104	1	99	19.87	0.097	18.87	0.077	
	50	25	100	0	19.86	0.0968	18.86	0.0769	
Highest	PI/2 BPSK DFT-s-	1	1	1	0	22.64	0.1838	21.64	0.146
		1	104	1	49	22.71	0.1867	21.71	0.1483
		50	25	50	0	22.74	0.188	21.74	0.1494
	QPSK DFT-s- OFDM	1	1	1	0	22.55	0.18	21.55	0.143
		1	104	1	49	22.43	0.1751	21.43	0.1391
		50	25	50	0	22.68	0.1854	21.68	0.1473
	16QAM DFT-s- OFDM	1	1	1	0	21.57	0.1436	20.57	0.1141
		1	104	1	49	21.47	0.1403	20.47	0.1115
		50	25	50	0	22.05	0.1603	21.05	0.1273
	64QAM DFT-s- OFDM	1	1	1	0	20.61	0.1151	19.61	0.0914
		1	104	1	49	20.70	0.1174	19.70	0.0933
		50	25	50	0	20.62	0.1153	19.62	0.0916
256QA M DFT-s-	1	1	1	0	20.57	0.114	19.57	0.0906	
	1	104	1	49	20.55	0.1135	19.55	0.0902	
	50	25	50	0	20.61	0.1151	19.61	0.0914	
Limit	EIRP < 2W					Result		PASS	

EN-DC n25 (ANT3)+12A (ANT1)Combination 10MHz+10MHz(LTE)(GT - LC = -1 dB)									
Channel	Mode	NR		LTE		Conducted		EIRP	
		RB		RB					
		Size	Offset	Size	Offset	Power(dBm)	Power(Watts)	EIRP(dBm)	EIRP(W)
Lowest	PI/2 BPSK DFT-s-	1	1	1	0	22.74	0.188	21.74	0.1493
		1	50	1	49	22.66	0.1846	21.66	0.1466
		25	12	50	0	22.80	0.1906	21.80	0.1514
	QPSK DFT-s- OFDM	1	1	1	0	22.60	0.1821	21.60	0.1446
		1	50	1	49	22.66	0.1846	21.66	0.1466
		25	12	50	0	22.74	0.188	21.74	0.1494
	16QAM DFT-s- OFDM	1	1	1	0	21.71	0.1483	20.71	0.1178
		1	104	1	49	22.19	0.1655	21.19	0.1315
		50	25	50	0	22.15	0.164	21.15	0.1302
	64QAM DFT-s- OFDM	1	1	1	0	20.78	0.1196	19.78	0.095
		1	104	1	49	20.69	0.1172	19.69	0.0931
		50	25	50	0	20.74	0.1185	19.74	0.0941
	256QA M DFT-s-	1	1	1	0	20.69	0.1172	19.69	0.0931
		1	104	1	49	20.68	0.1169	19.68	0.0929
		50	25	50	0	20.65	0.1161	19.65	0.0922
Middle	PI/2 BPSK DFT-s-	1	1	1	0	22.60	0.1821	21.60	0.1446
		1	50	1	49	22.76	0.1889	21.76	0.15
		25	12	50	0	22.76	0.1889	21.76	0.15
	QPSK DFT-s- OFDM	1	1	1	0	22.55	0.18	21.55	0.143
		1	50	1	49	22.59	0.1817	21.59	0.1443
		25	12	50	0	22.91	0.1955	21.91	0.1553
	16QAM DFT-s- OFDM	1	1	1	0	22.03	0.1595	21.03	0.1267
		1	104	1	99	22.10	0.1621	21.10	0.1288
		50	25	100	0	22.13	0.1632	21.13	0.1296
	64QAM DFT-s- OFDM	1	1	1	0	20.57	0.114	19.57	0.0906
		1	104	1	99	20.83	0.121	19.83	0.0961
		50	25	100	0	20.68	0.1169	19.68	0.0929
	256QA M DFT-s-	1	1	1	0	20.57	0.114	19.57	0.0906
		1	104	1	99	20.61	0.1151	19.61	0.0914
		50	25	100	0	20.50	0.1122	19.50	0.0891
	QPSK CP- OFDM	1	1	1	0	21.71	0.1483	20.71	0.1178
		1	104	1	99	21.73	0.149	20.73	0.1183
		50	25	100	0	21.64	0.1459	20.64	0.1159
	16QAM CP- OFDM	1	1	1	0	20.96	0.1246	19.96	0.099
		1	104	1	99	20.95	0.1244	19.95	0.0988
		50	25	100	0	21.16	0.1308	20.16	0.1039
	64QAM CP- OFDM	1	1	1	0	19.80	0.0954	18.80	0.0758
		1	104	1	99	19.96	0.099	18.96	0.0786
		50	25	100	0	19.83	0.0961	18.83	0.0763
	256QA M CP-	1	1	1	0	19.81	0.0957	18.81	0.076
		1	104	1	99	19.87	0.097	18.87	0.077
		50	25	100	0	19.87	0.097	18.87	0.077
Highest	PI/2 BPSK DFT-s-	1	1	1	0	22.56	0.1804	21.56	0.1433
		1	50	1	49	22.57	0.1808	21.57	0.1436
		25	12	50	0	22.65	0.1842	21.65	0.1463
	QPSK DFT-s- OFDM	1	1	1	0	22.58	0.1813	21.58	0.144
		1	50	1	49	22.60	0.1821	21.60	0.1446
		25	12	50	0	22.71	0.1867	21.71	0.1483
	16QAM DFT-s- OFDM	1	1	1	0	21.56	0.1433	20.56	0.1138
		1	104	1	49	21.93	0.1559	20.93	0.1239
		50	25	50	0	22.06	0.1606	21.06	0.1276
	64QAM DFT-s- OFDM	1	1	1	0	20.55	0.1135	19.55	0.0902
		1	104	1	49	20.58	0.1143	19.58	0.0908
		50	25	50	0	20.54	0.1132	19.54	0.09
	256QA M DFT-s-	1	1	1	0	20.50	0.1122	19.50	0.0891
		1	104	1	49	20.44	0.1107	19.44	0.0879
		50	25	50	0	20.44	0.1107	19.44	0.0879
Limit	EIRP < 2W					Result		PASS	

EN-DC n25 (ANT3)+12A (ANT1)Combination 5MHz+10MHz(LTE)(GT - LC = -1 dB)									
Channel	Mode	NR		LTE		Conducted		EIRP	
		RB		RB					
		Size	Offset	Size	Offset	Power(dBm)	Power(Watts)	EIRP(dBm)	EIRP(W)
Lowest	PI/2 BPSK DFT-s-	1	1	1	0	22.58	0.1812	21.58	0.144
		1	23	1	49	22.67	0.185	21.67	0.147
		12	6	50	0	22.78	0.1897	21.78	0.1507
	QPSK DFT-s- OFDM	1	1	1	0	22.64	0.1837	21.64	0.1459
		1	23	1	49	22.63	0.1833	21.63	0.1456
		12	6	50	0	22.77	0.1893	21.77	0.1504
	16QAM DFT-s- OFDM	1	1	1	0	21.67	0.1469	20.67	0.1167
		1	104	1	49	21.64	0.1459	20.64	0.1159
		50	25	50	0	22.26	0.1682	21.26	0.1336
	64QAM DFT-s- OFDM	1	1	1	0	20.93	0.1238	19.93	0.0983
		1	104	1	49	20.93	0.1238	19.93	0.0983
		50	25	50	0	20.89	0.1227	19.89	0.0974
	256QA M DFT-s-	1	1	1	0	20.64	0.1159	19.64	0.092
		1	104	1	49	20.75	0.1188	19.75	0.0944
		50	25	50	0	20.76	0.1191	19.76	0.0946
Middle	PI/2 BPSK DFT-s-	1	1	1	0	22.70	0.1863	21.70	0.148
		1	23	1	49	22.71	0.1867	21.71	0.1483
		12	6	50	0	22.99	0.1991	21.99	0.1581
	QPSK DFT-s- OFDM	1	1	1	0	22.68	0.1854	21.68	0.1473
		1	23	1	49	22.80	0.1906	21.80	0.1514
		12	6	50	0	22.76	0.1889	21.76	0.15
	16QAM DFT-s- OFDM	1	1	1	0	22.11	0.1625	21.11	0.129
		1	104	1	99	22.14	0.1636	21.14	0.13
		50	25	100	0	22.11	0.1625	21.11	0.1291
	64QAM DFT-s- OFDM	1	1	1	0	20.47	0.1114	19.47	0.0885
		1	104	1	99	20.71	0.1177	19.71	0.0935
		50	25	100	0	20.75	0.1188	19.75	0.0944
	256QA M DFT-s-	1	1	1	0	20.51	0.1125	19.51	0.0893
		1	104	1	99	20.63	0.1156	19.63	0.0918
		50	25	100	0	20.64	0.1159	19.64	0.092
	QPSK CP- OFDM	1	1	1	0	21.49	0.141	20.49	0.112
		1	104	1	99	21.93	0.1559	20.93	0.1239
		50	25	100	0	21.60	0.1446	20.60	0.1148
	16QAM CP- OFDM	1	1	1	0	20.95	0.1243	19.95	0.0988
		1	104	1	99	20.96	0.1246	19.96	0.099
		50	25	100	0	21.14	0.1302	20.14	0.1034
	64QAM CP- OFDM	1	1	1	0	19.92	0.0981	18.92	0.0779
		1	104	1	99	20.03	0.1008	19.03	0.0801
		50	25	100	0	19.61	0.0914	18.61	0.0726
	256QA M CP-	1	1	1	0	19.74	0.0942	18.74	0.0748
		1	104	1	99	19.99	0.0997	18.99	0.0792
		50	25	100	0	19.76	0.0946	18.76	0.0751
Highest	PI/2 BPSK DFT-s-	1	1	1	0	22.64	0.1838	21.64	0.146
		1	23	1	49	22.49	0.1776	21.49	0.141
		12	6	50	0	22.59	0.1817	21.59	0.1443
	QPSK DFT-s- OFDM	1	1	1	0	22.53	0.1792	21.53	0.1423
		1	23	1	49	22.51	0.1784	21.51	0.1417
		12	6	50	0	22.71	0.1867	21.71	0.1483
	16QAM DFT-s- OFDM	1	1	1	0	21.91	0.1552	20.91	0.1233
		1	104	1	49	21.94	0.1563	20.94	0.1241
		50	25	50	0	21.93	0.1559	20.93	0.1239
	64QAM DFT-s- OFDM	1	1	1	0	20.36	0.1087	19.36	0.0863
		1	104	1	49	20.48	0.1117	19.48	0.0887
		50	25	50	0	20.65	0.1161	19.65	0.0922
	256QA M DFT-s-	1	1	1	0	20.39	0.1094	19.39	0.0869
		1	104	1	49	20.50	0.1122	19.50	0.0891
		50	25	50	0	20.49	0.112	19.49	0.0889
Limit	EIRP < 2W					Result		PASS	

5G NR n41-NSA

EN-DC n41 (ANT3)+2A (ANT0)Combination 100MHz+20MHz(LTE)(GT - LC = -0.5 dB)									
Channel	Mode	NR		LTE		Conducted		EIRP	
		RB		RB					
		Size	Offset	Size	Offset	Power(dBm)	Power(Watts)	EIRP(dBm)	EIRP(W)
Lowest	PI/2 BPSK DFT-s-OFDM	1	1	1	0	26.08	0.4057	25.58	0.3615
		1	271	1	99	26.18	0.4151	25.68	0.37
		135	67	100	0	26.08	0.4059	25.58	0.3618
	QPSK DFT-s-OFDM	1	1	1	0	26.11	0.408	25.61	0.3636
		1	271	1	99	26.14	0.4109	25.64	0.3663
		135	67	100	0	26.11	0.4083	25.61	0.3639
	16QAM DFT-s-OFDM	1	1	1	0	25.56	0.3594	25.06	0.3203
		1	271	1	99	25.27	0.3363	24.77	0.2998
		135	67	100	0	25.33	0.3412	24.83	0.3041
	64QAM DFT-s-OFDM	1	1	1	0	24.78	0.3003	24.28	0.2677
		1	271	1	99	24.69	0.2944	24.19	0.2624
		135	67	100	0	24.70	0.295	24.20	0.2629
	256QAM DFT-s-OEDM	1	1	1	0	24.02	0.2521	23.52	0.2247
		1	271	1	99	24.01	0.2516	23.51	0.2242
		135	67	100	0	24.04	0.2538	23.54	0.2262
Middle	PI/2 BPSK DFT-s-OFDM	1	1	1	0	26.07	0.4047	25.57	0.3607
		1	271	1	99	26.07	0.4042	25.57	0.3603
		135	67	100	0	26.08	0.4055	25.58	0.3614
	QPSK DFT-s-OFDM	1	1	1	0	26.17	0.4138	25.67	0.3688
		1	271	1	99	26.06	0.4037	25.56	0.3598
		135	67	100	0	26.04	0.4018	25.54	0.3581
	16QAM DFT-s-OFDM	1	1	1	0	25.43	0.349	24.93	0.3111
		1	271	1	99	25.35	0.3425	24.85	0.3053
		135	67	100	0	25.37	0.3441	24.87	0.3067
	64QAM DFT-s-OFDM	1	1	1	0	24.70	0.2954	24.20	0.2632
		1	271	1	99	24.73	0.2973	24.23	0.265
		135	67	100	0	24.82	0.3033	24.32	0.2703
	256QAM DFT-s-OFDM	1	1	1	0	24.01	0.2516	23.51	0.2243
		1	271	1	99	24.04	0.2533	23.54	0.2257
		135	67	100	0	24.06	0.2545	23.56	0.2268
	QPSK CP-OFDM	1	1	1	0	25.14	0.3266	24.64	0.2911
		1	271	1	99	25.08	0.3222	24.58	0.2872
		135	67	100	0	25.21	0.3321	24.71	0.296
	16QAM CP-OFDM	1	1	1	0	25.07	0.3212	24.57	0.2862
		1	271	1	99	24.98	0.3147	24.48	0.2805
		135	67	100	0	25.00	0.3165	24.50	0.282
	64QAM CP-OFDM	1	1	1	0	24.48	0.2807	23.98	0.2501
		1	271	1	99	24.38	0.2739	23.88	0.2441
		135	67	100	0	24.39	0.2747	23.89	0.2449
	256QAM CP-OFDM	1	1	1	0	23.84	0.2422	23.34	0.2158
		1	271	1	99	23.70	0.2345	23.20	0.209
		135	67	100	0	23.71	0.2348	23.21	0.2093
Highest	PI/2 BPSK DFT-s-OFDM	1	1	1	0	26.30	0.4264	25.80	0.38
		1	271	1	99	26.02	0.3997	25.52	0.3562
		135	67	100	0	26.12	0.4088	25.62	0.3644
	QPSK DFT-s-OFDM	1	1	1	0	26.28	0.4247	25.78	0.3785
		1	271	1	99	26.02	0.4001	25.52	0.3566
		135	67	100	0	26.12	0.4088	25.62	0.3644
	16QAM DFT-s-OFDM	1	1	1	0	25.46	0.3513	24.96	0.3131
		1	271	1	99	25.54	0.3581	25.04	0.3191
		135	67	100	0	25.41	0.3472	24.91	0.3094
	64QAM DFT-s-OFDM	1	1	1	0	24.85	0.3054	24.35	0.2722
		1	271	1	99	24.68	0.2939	24.18	0.262
		135	67	100	0	24.79	0.301	24.29	0.2683
	256QAM DFT-s-OFDM	1	1	1	0	24.15	0.2602	23.65	0.2319
		1	271	1	99	24.06	0.2547	23.56	0.227
		135	67	100	0	24.17	0.2613	23.67	0.2329
Limit	EIRP < 2W					Result		PASS	

EN-DC n41 (ANT3)+2A (ANT0)Combination 60MHz+20MHz(LTE)(GT - LC = -0.5 dB)										
Channel	Mode	NR		LTE		Conducted		EIRP		
		RB		RB						
		Size	Offset	Size	Offset	Power(dBm)	Power(Watts)	EIRP(dBm)	EIRP(W)	
Lowest	PI/2 BPSK DFT-s-OFDM	1	1	1	0	26.05	0.4024	25.55	0.3586	
		1	160	1	99	26.14	0.4109	25.64	0.3662	
		81	40	100	0	26.12	0.4095	25.62	0.365	
	QPSK DFT-s-OFDM	1	1	1	0	25.49	0.3542	24.99	0.3157	
		1	160	1	99	26.00	0.3984	25.50	0.3551	
		81	40	100	0	26.04	0.4017	25.54	0.358	
	16QAM DFT-s-OFDM	1	1	1	0	25.31	0.3396	24.81	0.3027	
		1	160	1	99	25.41	0.3474	24.91	0.3096	
		81	40	100	0	25.37	0.3443	24.87	0.3068	
	64QAM DFT-s-OFDM	1	1	1	0	24.78	0.3008	24.28	0.2681	
		1	160	1	99	24.80	0.3018	24.30	0.269	
		81	40	100	0	24.83	0.3043	24.33	0.2712	
	256QAM DFT-s-OFDM	1	1	1	0	24.07	0.2551	23.57	0.2274	
		1	160	1	99	24.00	0.2515	23.50	0.2241	
		81	40	100	0	24.27	0.2673	23.77	0.2382	
	Middle	PI/2 BPSK DFT-s-OFDM	1	1	1	0	26.01	0.3986	25.51	0.3552
			1	160	1	99	26.10	0.4069	25.60	0.3627
			81	40	100	0	26.09	0.4066	25.59	0.3624
QPSK DFT-s-OFDM		1	1	1	0	26.00	0.3981	25.50	0.3548	
		1	160	1	99	26.03	0.4011	25.53	0.3575	
		81	40	100	0	26.13	0.4102	25.63	0.3656	
16QAM DFT-s-OFDM		1	1	1	0	25.37	0.3446	24.87	0.3071	
		1	160	1	99	25.46	0.3512	24.96	0.313	
		81	40	100	0	25.34	0.3423	24.84	0.3051	
64QAM DFT-s-OFDM		1	1	1	0	24.75	0.2987	24.25	0.2662	
		1	160	1	99	24.82	0.3037	24.32	0.2707	
		81	40	100	0	24.82	0.3033	24.32	0.2704	
256QAM DFT-s-OFDM		1	1	1	0	24.10	0.2568	23.60	0.2288	
		1	160	1	99	24.13	0.2587	23.63	0.2305	
		81	40	100	0	24.18	0.2616	23.68	0.2331	
QPSK CP-OFDM		1	1	1	0	25.19	0.3304	24.69	0.2945	
		1	160	1	99	25.27	0.3365	24.77	0.2999	
		81	40	100	0	25.15	0.3273	24.65	0.2917	
16QAM CP-OFDM		1	1	1	0	25.04	0.3191	24.54	0.2844	
		1	160	1	99	25.09	0.3227	24.59	0.2876	
		81	40	100	0	24.95	0.3124	24.45	0.2784	
64QAM CP-OFDM	1	1	1	0	24.37	0.2738	23.87	0.244		
	1	160	1	99	24.50	0.2818	24.00	0.2511		
	81	40	100	0	24.47	0.2797	23.97	0.2493		
256QAM CP-OFDM	1	1	1	0	23.66	0.2322	23.16	0.207		
	1	160	1	99	23.86	0.2431	23.36	0.2166		
	81	40	100	0	23.82	0.241	23.32	0.2148		
Highest	PI/2 BPSK DFT-s-OFDM	1	1	1	0	26.14	0.4111	25.64	0.3664	
		1	160	1	99	25.99	0.3968	25.49	0.3536	
		81	40	100	0	26.03	0.4007	25.53	0.3571	
	QPSK DFT-s-OFDM	1	1	1	0	26.13	0.4098	25.63	0.3653	
		1	160	1	99	25.86	0.3855	25.36	0.3436	
		81	40	100	0	26.11	0.4087	25.61	0.3643	
	16QAM DFT-s-OFDM	1	1	1	0	25.49	0.3536	24.99	0.3152	
		1	160	1	99	25.46	0.3512	24.96	0.313	
		81	40	100	0	25.45	0.3506	24.95	0.3125	
	64QAM DFT-s-OFDM	1	1	1	0	24.82	0.3032	24.32	0.2702	
		1	160	1	99	24.82	0.3034	24.32	0.2704	
		81	40	100	0	24.80	0.3018	24.30	0.269	
256QAM DFT-s-OFDM	1	1	1	0	24.14	0.2593	23.64	0.2311		
	1	160	1	99	24.04	0.2534	23.54	0.2258		
	81	40	100	0	24.22	0.2645	23.72	0.2357		
Limit	EIRP < 2W					Result		PASS		

EN-DC n41 (ANT3)+2A (ANT0)Combination 20MHz+20MHz(LTE)(GT - LC = -0.5 dB)									
Channel	Mode	NR		LTE		Conducted		EIRP	
		RB		RB					
		Size	Offset	Size	Offset	Power(dBm)	Power(Watts)	EIRP(dBm)	EIRP(W)
Lowest	PI/2 BPSK DFT-s-OFDM	1	1	1	0	26.21	0.4174	25.71	0.372
		1	49	1	99	26.25	0.422	25.75	0.3761
		25	12	100	0	26.24	0.4205	25.74	0.3747
	QPSK DFT-s-OFDM	1	1	1	0	26.29	0.426	25.79	0.3796
		1	49	1	99	26.21	0.4174	25.71	0.372
		25	12	100	0	26.22	0.4189	25.72	0.3733
	16QAM DFT-s-OFDM	1	1	1	0	25.46	0.3512	24.96	0.313
		1	49	1	99	25.42	0.3483	24.92	0.3104
		25	12	100	0	25.52	0.3565	25.02	0.3178
	64QAM DFT-s-OFDM	1	1	1	0	24.69	0.2947	24.19	0.2626
		1	49	1	99	24.79	0.3012	24.29	0.2684
		25	12	100	0	24.79	0.3016	24.29	0.2688
	256QAM DFT-s-OFDM	1	1	1	0	24.13	0.2591	23.63	0.2309
		1	49	1	99	24.12	0.2584	23.62	0.2303
		25	12	100	0	24.26	0.2667	23.76	0.2377
Middle	PI/2 BPSK DFT-s-OFDM	1	1	1	0	26.15	0.4118	25.65	0.367
		1	49	1	99	26.08	0.4051	25.58	0.361
		25	12	100	0	26.15	0.4117	25.65	0.3669
	QPSK DFT-s-OFDM	1	1	1	0	26.12	0.4095	25.62	0.365
		1	49	1	99	26.04	0.4019	25.54	0.3582
		25	12	100	0	26.16	0.413	25.66	0.368
	16QAM DFT-s-OFDM	1	1	1	0	25.35	0.3424	24.85	0.3052
		1	49	1	99	25.36	0.3433	24.86	0.306
		25	12	100	0	25.46	0.3518	24.96	0.3135
	64QAM DFT-s-OFDM	1	1	1	0	24.73	0.2975	24.23	0.2651
		1	49	1	99	24.78	0.3007	24.28	0.268
		25	12	100	0	24.73	0.2975	24.23	0.2651
	256QAM DFT-s-OFDM	1	1	1	0	24.05	0.2543	23.55	0.2266
		1	49	1	99	24.04	0.2536	23.54	0.2261
		25	12	100	0	24.09	0.2564	23.59	0.2285
	QPSK CP-OFDM	1	1	1	0	25.23	0.3331	24.73	0.2969
		1	49	1	99	25.20	0.3315	24.70	0.2954
		25	12	100	0	25.18	0.3298	24.68	0.2939
	16QAM CP-OFDM	1	1	1	0	25.05	0.3202	24.55	0.2854
		1	49	1	99	25.02	0.3177	24.52	0.2831
		25	12	100	0	25.00	0.3159	24.50	0.2815
	64QAM CP-OFDM	1	1	1	0	24.41	0.2761	23.91	0.2461
		1	49	1	99	24.49	0.2809	23.99	0.2504
		25	12	100	0	24.46	0.2796	23.96	0.2492
	256QAM CP-OFDM	1	1	1	0	23.71	0.2352	23.21	0.2096
		1	49	1	99	23.81	0.2402	23.31	0.2141
		25	12	100	0	23.76	0.2377	23.26	0.2118
Highest	PI/2 BPSK DFT-s-OFDM	1	1	1	0	26.05	0.4023	25.55	0.3585
		1	49	1	99	26.01	0.3987	25.51	0.3553
		25	12	100	0	25.97	0.3951	25.47	0.3521
	QPSK DFT-s-OFDM	1	1	1	0	26.04	0.4021	25.54	0.3584
		1	49	1	99	26.02	0.4003	25.52	0.3568
		25	12	100	0	26.06	0.4033	25.56	0.3594
	16QAM DFT-s-OFDM	1	1	1	0	25.39	0.3461	24.89	0.3084
		1	49	1	99	25.32	0.3402	24.82	0.3032
		25	12	100	0	25.41	0.3473	24.91	0.3095
	64QAM DFT-s-OFDM	1	1	1	0	24.76	0.2991	24.26	0.2665
		1	49	1	99	24.72	0.2965	24.22	0.2643
		25	12	100	0	24.76	0.2992	24.26	0.2667
	256QAM DFT-s-OFDM	1	1	1	0	24.07	0.2553	23.57	0.2275
		1	49	1	99	24.02	0.2526	23.52	0.2252
		25	12	100	0	24.18	0.2617	23.68	0.2332
Limit	EIRP < 2W					Result		PASS	

5G NR n66-NSA

EN-DC n66 (ANT3)+5A (ANT1)Combination 20MHz+10MHz(LTE)(GT - LC = -1 dB)									
Channel	Mode	NR		LTE		Conducted		EIRP	
		RB		RB					
		Size	Offset	Size	Offset	Power(dBm)	Power(Watts)	EIRP(dBm)	EIRP(W)
Lowest	PI/2 BPSK DFT-s-	1	1	1	0	23.16	0.2069	22.16	0.1644
		1	104	1	49	22.98	0.1986	21.98	0.1577
		50	25	50	0	23.00	0.1995	22.00	0.1585
	QPSK DFT-s- OFDM	1	1	1	0	23.07	0.2027	22.07	0.161
		1	104	1	49	22.85	0.1927	21.85	0.1531
		50	25	50	0	23.06	0.2023	22.06	0.1607
	16QAM DFT-s- OFDM	1	1	1	0	21.90	0.1547	20.90	0.1229
		1	104	1	49	21.80	0.1512	20.80	0.1201
		50	25	50	0	22.24	0.1677	21.24	0.1332
	64QAM DFT-s- OFDM	1	1	1	0	20.29	0.1069	19.29	0.0849
		1	104	1	49	20.91	0.1234	19.91	0.098
		50	25	50	0	20.91	0.1234	19.91	0.098
	256QA M DFT-s-	1	1	1	0	20.64	0.116	19.64	0.0921
		1	104	1	49	20.56	0.1136	19.56	0.0903
		50	25	50	0	20.86	0.122	19.86	0.0969
Middle	PI/2 BPSK DFT-s-	1	1	1	0	22.96	0.1977	21.96	0.157
		1	104	1	49	22.89	0.1945	21.89	0.1545
		50	25	50	0	22.82	0.1914	21.82	0.1521
	QPSK DFT-s- OFDM	1	1	1	0	22.73	0.1875	21.73	0.1489
		1	104	1	49	22.79	0.1901	21.79	0.151
		50	25	50	0	22.80	0.1905	21.80	0.1514
	16QAM DFT-s- OFDM	1	1	1	0	21.72	0.1485	20.72	0.118
		1	104	1	99	21.73	0.1488	20.73	0.1182
		50	25	100	0	22.02	0.159	21.02	0.1263
	64QAM DFT-s- OFDM	1	1	1	0	20.97	0.1251	19.97	0.0994
		1	104	1	99	20.86	0.122	19.86	0.0969
		50	25	100	0	20.72	0.1182	19.72	0.0939
	256QA M DFT-s-	1	1	1	0	20.65	0.1163	19.65	0.0924
		1	104	1	99	20.56	0.1136	19.56	0.0903
		50	25	100	0	20.67	0.1168	19.67	0.0928
	QPSK CP- OFDM	1	1	1	0	21.81	0.1516	20.81	0.1204
		1	104	1	99	21.83	0.1523	20.83	0.121
		50	25	100	0	21.46	0.1399	20.46	0.1111
	16QAM CP- OFDM	1	1	1	0	21.06	0.1277	20.06	0.1014
		1	104	1	99	21.13	0.1297	20.13	0.1031
		50	25	100	0	21.05	0.1274	20.05	0.1012
	64QAM CP- OFDM	1	1	1	0	19.74	0.0943	18.74	0.0749
		1	104	1	99	19.69	0.0932	18.69	0.074
		50	25	100	0	19.77	0.0949	18.77	0.0754
	256QA M CP-	1	1	1	0	19.73	0.094	18.73	0.0747
		1	104	1	99	19.63	0.0919	18.63	0.073
		50	25	100	0	19.82	0.096	18.82	0.0762
Highest	PI/2 BPSK DFT-s-	1	1	1	0	22.81	0.191	21.81	0.1517
		1	104	1	49	22.69	0.1858	21.69	0.1476
		50	25	50	0	22.66	0.1845	21.66	0.1466
	QPSK DFT-s- OFDM	1	1	1	0	22.69	0.1858	21.69	0.1476
		1	104	1	49	22.57	0.1808	21.57	0.1436
		50	25	50	0	22.72	0.1871	21.72	0.1486
	16QAM DFT-s- OFDM	1	1	1	0	21.66	0.1465	20.66	0.1164
		1	104	1	49	21.45	0.1396	20.45	0.1109
		50	25	50	0	21.94	0.1562	20.94	0.1241
	64QAM DFT-s- OFDM	1	1	1	0	20.86	0.122	19.86	0.0969
		1	104	1	49	20.61	0.1152	19.61	0.0915
		50	25	50	0	20.45	0.1108	19.45	0.088
	256QA M DFT-s-	1	1	1	0	20.47	0.1113	19.47	0.0884
		1	104	1	49	20.33	0.1078	19.33	0.0857
		50	25	50	0	20.42	0.1101	19.42	0.0874
Limit	EIRP < 1W					Result		PASS	

EN-DC n66 (ANT3)+5A (ANT1)Combination 10MHz+10MHz(LTE)(GT - LC = -1 dB)									
Channel	Mode	NR		LTE		Conducted		EIRP	
		RB		RB					
		Size	Offset	Size	Offset	Power(dBm)	Power(Watts)	EIRP(dBm)	EIRP(W)
Lowest	PI/2 BPSK DFT-s-	1	1	1	0	23.00	0.1995	22.00	0.1585
		1	50	1	49	22.96	0.1977	21.96	0.157
		25	12	50	0	23.10	0.2041	22.10	0.1621
	QPSK DFT-s- OFDM	1	1	1	0	22.88	0.1941	21.88	0.1542
		1	50	1	49	22.82	0.1914	21.82	0.1521
		25	12	50	0	22.95	0.1972	21.95	0.1567
	16QAM DFT-s- OFDM	1	1	1	0	22.34	0.1715	21.34	0.1363
		1	104	1	49	22.20	0.1661	21.20	0.132
		50	25	50	0	22.28	0.1692	21.28	0.1344
	64QAM DFT-s- OFDM	1	1	1	0	20.82	0.1209	19.82	0.096
		1	104	1	49	20.77	0.1195	19.77	0.0949
		50	25	50	0	20.84	0.1214	19.84	0.0965
	256QA M DFT-s-	1	1	1	0	20.62	0.1155	19.62	0.0917
		1	104	1	49	20.60	0.1147	19.60	0.0911
		50	25	50	0	20.74	0.1187	19.74	0.0943
Middle	PI/2 BPSK DFT-s-	1	1	1	0	22.85	0.1927	21.85	0.1531
		1	50	1	49	22.71	0.1867	21.71	0.1483
		25	12	50	0	22.77	0.1893	21.77	0.1503
	QPSK DFT-s- OFDM	1	1	1	0	22.67	0.185	21.67	0.1469
		1	50	1	49	22.61	0.1824	21.61	0.1449
		25	12	50	0	22.83	0.1919	21.83	0.1524
	16QAM DFT-s- OFDM	1	1	1	0	21.87	0.1537	20.87	0.1221
		1	104	1	99	21.79	0.1509	20.79	0.1199
		50	25	100	0	22.17	0.165	21.17	0.1311
	64QAM DFT-s- OFDM	1	1	1	0	20.74	0.1187	19.74	0.0943
		1	104	1	99	20.73	0.1184	19.73	0.094
		50	25	100	0	20.65	0.1163	19.65	0.0924
	256QA M DFT-s-	1	1	1	0	20.84	0.1214	19.84	0.0965
		1	104	1	99	20.93	0.124	19.93	0.0985
		50	25	100	0	20.69	0.1173	19.69	0.0932
	QPSK CP- OFDM	1	1	1	0	21.77	0.1502	20.77	0.1193
		1	104	1	99	21.82	0.1519	20.82	0.1207
		50	25	100	0	21.59	0.1441	20.59	0.1145
	16QAM CP- OFDM	1	1	1	0	21.09	0.1286	20.09	0.1021
		1	104	1	99	21.14	0.1301	20.14	0.1033
		50	25	100	0	21.09	0.1286	20.09	0.1021
	64QAM CP- OFDM	1	1	1	0	19.55	0.0901	18.55	0.0715
		1	104	1	99	19.63	0.0919	18.63	0.073
		50	25	100	0	19.74	0.0943	18.74	0.0749
	256QA M CP-	1	1	1	0	19.45	0.088	18.45	0.0699
		1	104	1	99	19.57	0.0907	18.57	0.072
		50	25	100	0	19.69	0.0932	18.69	0.074
Highest	PI/2 BPSK DFT-s-	1	1	1	0	22.70	0.1862	21.70	0.1479
		1	50	1	49	22.61	0.1824	21.61	0.1449
		25	12	50	0	22.66	0.1845	21.66	0.1466
	QPSK DFT-s- OFDM	1	1	1	0	22.56	0.1803	21.56	0.1433
		1	50	1	49	22.47	0.1767	21.47	0.1403
		25	12	50	0	22.64	0.1837	21.64	0.1459
	16QAM DFT-s- OFDM	1	1	1	0	21.50	0.1412	20.50	0.1122
		1	104	1	49	21.43	0.139	20.43	0.1104
		50	25	50	0	21.92	0.1555	20.92	0.1235
	64QAM DFT-s- OFDM	1	1	1	0	20.66	0.1165	19.66	0.0926
		1	104	1	49	20.61	0.115	19.61	0.0913
		50	25	50	0	20.44	0.1106	19.44	0.0878
	256QA M DFT-s-	1	1	1	0	20.34	0.1081	19.34	0.0858
		1	104	1	49	20.28	0.1066	19.28	0.0847
		50	25	50	0	20.37	0.1088	19.37	0.0864
Limit	EIRP < 1W					Result		PASS	

EN-DC n66 (ANT3)+5A (ANT1)Combination 5MHz+10MHz(LTE)(GT - LC = -1 dB)									
Channel	Mode	NR		LTE		Conducted		EIRP	
		RB		RB					
		Size	Offset	Size	Offset	Power(dBm)	Power(Watts)	EIRP(dBm)	EIRP(W)
Lowest	PI/2 BPSK DFT-s-	1	1	1	0	23.11	0.2046	22.11	0.1625
		1	49	1	49	23.05	0.2018	22.05	0.1603
		25	12	50	0	23.09	0.2036	22.09	0.1618
	QPSK DFT-s- OFDM	1	1	1	0	22.85	0.1928	21.85	0.1531
		1	49	1	49	22.91	0.1954	21.91	0.1552
		25	12	50	0	23.09	0.2036	22.09	0.1618
	16QAM DFT-s- OFDM	1	1	1	0	21.84	0.1526	20.84	0.1212
		1	104	1	49	21.86	0.1533	20.86	0.1218
		50	25	50	0	22.26	0.1684	21.26	0.1338
	64QAM DFT-s- OFDM	1	1	1	0	20.90	0.1231	19.90	0.0978
		1	104	1	49	20.93	0.124	19.93	0.0985
		50	25	50	0	20.86	0.122	19.86	0.0969
	256QA M DFT-s-	1	1	1	0	20.76	0.1192	19.76	0.0947
		1	104	1	49	20.52	0.1126	19.52	0.0895
		50	25	50	0	20.80	0.1203	19.80	0.0956
Middle	PI/2 BPSK DFT-s-	1	1	1	0	22.87	0.1936	21.87	0.1538
		1	49	1	49	22.74	0.188	21.74	0.1493
		25	12	50	0	22.91	0.1954	21.91	0.1552
	QPSK DFT-s- OFDM	1	1	1	0	22.68	0.1854	21.68	0.1472
		1	49	1	49	22.64	0.1837	21.64	0.1459
		25	12	50	0	22.89	0.1945	21.89	0.1545
	16QAM DFT-s- OFDM	1	1	1	0	21.68	0.1471	20.68	0.1169
		1	104	1	99	21.60	0.1445	20.60	0.1148
		50	25	100	0	22.08	0.1616	21.08	0.1284
	64QAM DFT-s- OFDM	1	1	1	0	20.88	0.1225	19.88	0.0973
		1	104	1	99	20.92	0.1237	19.92	0.0982
		50	25	100	0	20.77	0.1195	19.77	0.0949
	256QA M DFT-s-	1	1	1	0	20.64	0.1158	19.64	0.0919
		1	104	1	99	20.55	0.1134	19.55	0.0901
		50	25	100	0	20.20	0.1047	19.20	0.0831
	QPSK CP- OFDM	1	1	1	0	21.86	0.1533	20.86	0.1218
		1	104	1	99	21.90	0.1547	20.90	0.1229
		50	25	100	0	21.64	0.1458	20.64	0.1158
	16QAM CP- OFDM	1	1	1	0	21.02	0.1265	20.02	0.1005
		1	104	1	99	20.91	0.1234	19.91	0.098
		50	25	100	0	21.03	0.1268	20.03	0.1007
	64QAM CP- OFDM	1	1	1	0	19.99	0.0998	18.99	0.0793
		1	104	1	99	20.02	0.1005	19.02	0.0798
		50	25	100	0	19.67	0.0928	18.67	0.0737
	256QA M CP-	1	1	1	0	20.06	0.1014	19.06	0.0805
		1	104	1	99	20.01	0.1002	19.01	0.0796
		50	25	100	0	19.89	0.0975	18.89	0.0775
Highest	PI/2 BPSK DFT-s-	1	1	1	0	22.69	0.1858	21.69	0.1476
		1	49	1	49	23.01	0.1999	22.01	0.1588
		25	12	50	0	22.85	0.1927	21.85	0.1531
	QPSK DFT-s- OFDM	1	1	1	0	22.69	0.1858	21.69	0.1476
		1	49	1	49	22.70	0.1862	21.70	0.1479
		25	12	50	0	22.81	0.191	21.81	0.1517
	16QAM DFT-s- OFDM	1	1	1	0	21.50	0.1412	20.50	0.1122
		1	104	1	49	21.47	0.1402	20.47	0.1114
		50	25	50	0	21.92	0.1555	20.92	0.1235
	64QAM DFT-s- OFDM	1	1	1	0	20.60	0.1147	19.60	0.0911
		1	104	1	49	20.60	0.1147	19.60	0.0911
		50	25	50	0	20.47	0.1113	19.47	0.0884
	256QA M DFT-s-	1	1	1	0	20.26	0.1061	19.26	0.0843
		1	104	1	49	20.30	0.1071	19.30	0.0851
		50	25	50	0	20.36	0.1086	19.36	0.0862
Limit	EIRP < 1W					Result		PASS	

5G NR n71-NSA

EN-DC n71 (ANT1)+66A (ANT3)Combination 20MHz+20MHz(LTE)(GT - LC = -4.5 dB)									
Channel	Mode	NR		LTE		Conducted		ERP	
		RB		RB					
		Size	Offset	Size	Offset	Power(dBm)	Power(Watts)	ERP(dBm)	ERP(W)
Lowest	PI/2 BPSK DFT-s-	1	1	1	0	23.14	0.206	16.49	0.0445
		1	104	1	99	22.91	0.1954	16.26	0.0423
		50	25	100	0	23.06	0.2022	16.41	0.0437
	QPSK DFT-s- OFDM	1	1	1	0	23.01	0.1999	16.36	0.0432
		1	104	1	99	22.79	0.1901	16.14	0.0411
		50	25	100	0	23.01	0.1999	16.36	0.0432
	16QAM DFT-s- OFDM	1	1	1	0	22.60	0.182	15.95	0.0394
		1	104	1	49	21.98	0.1576	15.33	0.0341
		50	25	50	0	22.49	0.1775	15.84	0.0384
	64QAM DFT-s- OFDM	1	1	1	0	21.06	0.1277	14.41	0.0276
		1	104	1	49	20.71	0.1179	14.06	0.0255
		50	25	50	0	21.15	0.1303	14.50	0.0282
	256QA M DFT-s-	1	1	1	0	21.22	0.1324	14.57	0.0286
		1	104	1	49	20.93	0.1239	14.28	0.0268
		50	25	50	0	21.11	0.1292	14.46	0.0279
Middle	PI/2 BPSK DFT-s-	1	1	1	0	22.96	0.1976	16.31	0.0427
		1	104	1	99	22.76	0.1888	16.11	0.0408
		50	25	100	0	22.93	0.1963	16.28	0.0425
	QPSK DFT-s- OFDM	1	1	1	0	22.81	0.191	16.16	0.0413
		1	104	1	99	22.76	0.1888	16.11	0.0408
		50	25	100	0	23.05	0.2018	16.40	0.0436
	16QAM DFT-s- OFDM	1	1	1	0	22.41	0.1743	15.76	0.0377
		1	104	1	99	22.23	0.1673	15.58	0.0362
		50	25	100	0	22.42	0.1747	15.77	0.0378
	64QAM DFT-s- OFDM	1	1	1	0	20.83	0.1211	14.18	0.0262
		1	104	1	99	20.69	0.1173	14.04	0.0254
		50	25	100	0	21.12	0.1294	14.47	0.028
	256QA M DFT-s-	1	1	1	0	20.98	0.1254	14.33	0.0271
		1	104	1	99	20.83	0.1211	14.18	0.0262
		50	25	100	0	21.05	0.1274	14.40	0.0276
	QPSK CP- OFDM	1	1	1	0	22.06	0.1609	15.41	0.0348
		1	104	1	99	22.01	0.159	15.36	0.0344
		50	25	100	0	21.99	0.1583	15.34	0.0342
	16QAM CP- OFDM	1	1	1	0	21.27	0.134	14.62	0.029
		1	104	1	99	21.17	0.131	14.52	0.0283
		50	25	100	0	21.41	0.1383	14.76	0.0299
	64QAM CP- OFDM	1	1	1	0	20.14	0.1033	13.49	0.0223
		1	104	1	99	19.88	0.0973	13.23	0.021
		50	25	100	0	20.09	0.1021	13.44	0.0221
	256QA M CP-	1	1	1	0	20.10	0.1023	13.45	0.0221
		1	104	1	99	19.87	0.0971	13.22	0.021
		50	25	100	0	20.23	0.1054	13.58	0.0228
Highest	PI/2 BPSK DFT-s-	1	1	1	0	22.98	0.1986	16.33	0.0429
		1	104	1	99	22.58	0.1812	15.93	0.0392
		50	25	100	0	22.81	0.191	16.16	0.0413
	QPSK DFT-s- OFDM	1	1	1	0	22.90	0.1949	16.25	0.0422
		1	104	1	99	22.51	0.1783	15.86	0.0386
		50	25	100	0	22.71	0.1866	16.06	0.0404
	16QAM DFT-s- OFDM	1	1	1	0	22.46	0.1763	15.81	0.0381
		1	104	1	49	22.06	0.1609	15.41	0.0348
		50	25	50	0	22.34	0.1715	15.69	0.0371
	64QAM DFT-s- OFDM	1	1	1	0	20.92	0.1236	14.27	0.0267
		1	104	1	49	20.54	0.1131	13.89	0.0245
		50	25	50	0	20.91	0.1234	14.26	0.0267
	256QA M DFT-s-	1	1	1	0	21.05	0.1274	14.40	0.0276
		1	104	1	49	20.70	0.1176	14.05	0.0254
		50	25	50	0	20.86	0.122	14.21	0.0264
Limit	ERP < 3W					Result		PASS	

EN-DC n71 (ANT1)+66A (ANT3)Combination 10MHz+20MHz(LTE)(GT - LC = -4.5 dB)									
Channel	Mode	NR		LTE		Conducted		ERP	
		RB		RB					
		Size	Offset	Size	Offset	Power(dBm)	Power(Watts)	ERP(dBm)	ERP(W)
Lowest	PI/2 BPSK DFT-s-	1	1	1	0	23.03	0.2008	16.38	0.0434
		1	50	1	99	22.85	0.1927	16.20	0.0417
		25	12	100	0	22.94	0.1967	16.29	0.0425
	QPSK DFT-s- OFDM	1	1	1	0	22.87	0.1936	16.22	0.0419
		1	50	1	99	22.77	0.1892	16.12	0.0409
		25	12	100	0	22.96	0.1976	16.31	0.0427
	16QAM DFT-s- OFDM	1	1	1	0	22.22	0.1669	15.57	0.0361
		1	104	1	49	22.17	0.165	15.52	0.0357
		50	25	50	0	22.43	0.1751	15.78	0.0379
	64QAM DFT-s- OFDM	1	1	1	0	21.29	0.1346	14.64	0.0291
		1	104	1	49	21.20	0.1319	14.55	0.0285
		50	25	50	0	20.96	0.1248	14.31	0.027
	256QA M DFT-s-	1	1	1	0	20.98	0.1254	14.33	0.0271
		1	104	1	49	20.92	0.1237	14.27	0.0267
		50	25	50	0	21.01	0.1262	14.36	0.0273
Middle	PI/2 BPSK DFT-s-	1	1	1	0	22.93	0.1963	16.28	0.0424
		1	50	1	99	22.81	0.1909	16.16	0.0413
		25	12	100	0	22.89	0.1945	16.24	0.0421
	QPSK DFT-s- OFDM	1	1	1	0	22.83	0.1918	16.18	0.0415
		1	50	1	99	22.70	0.1862	16.05	0.0403
		25	12	100	0	22.97	0.1981	16.32	0.0428
	16QAM DFT-s- OFDM	1	1	1	0	22.33	0.1711	15.68	0.037
		1	104	1	99	22.17	0.165	15.52	0.0357
		50	25	100	0	22.43	0.1751	15.78	0.0379
	64QAM DFT-s- OFDM	1	1	1	0	20.91	0.1234	14.26	0.0267
		1	104	1	99	20.81	0.1206	14.16	0.0261
		50	25	100	0	21.03	0.1268	14.38	0.0274
	256QA M DFT-s-	1	1	1	0	20.83	0.1211	14.18	0.0262
		1	104	1	99	20.80	0.1203	14.15	0.026
		50	25	100	0	20.97	0.1251	14.32	0.0271
	QPSK CP- OFDM	1	1	1	0	22.05	0.1601	15.40	0.0346
		1	104	1	99	21.98	0.1576	15.33	0.0341
		50	25	100	0	21.95	0.1565	15.30	0.0338
	16QAM CP- OFDM	1	1	1	0	21.34	0.1361	14.69	0.0294
		1	104	1	99	21.15	0.1303	14.50	0.0282
		50	25	100	0	21.41	0.1383	14.76	0.0299
	64QAM CP- OFDM	1	1	1	0	20.03	0.1007	13.38	0.0218
		1	104	1	99	19.87	0.0971	13.22	0.021
		50	25	100	0	20.08	0.1019	13.43	0.022
	256QA M CP-	1	1	1	0	19.95	0.0989	13.30	0.0214
		1	104	1	99	19.86	0.0969	13.21	0.0209
		50	25	100	0	20.22	0.1052	13.57	0.0227
Highest	PI/2 BPSK DFT-s-	1	1	1	0	22.81	0.191	16.16	0.0413
		1	50	1	99	22.59	0.1816	15.94	0.0393
		25	12	100	0	22.83	0.1918	16.18	0.0415
	QPSK DFT-s- OFDM	1	1	1	0	22.70	0.1862	16.05	0.0403
		1	50	1	99	22.50	0.1778	15.85	0.0385
		25	12	100	0	22.77	0.1892	16.12	0.0409
	16QAM DFT-s- OFDM	1	1	1	0	22.35	0.1719	15.70	0.0372
		1	104	1	49	22.08	0.1613	15.43	0.0349
		50	25	50	0	22.29	0.1696	15.64	0.0367
	64QAM DFT-s- OFDM	1	1	1	0	20.80	0.1203	14.15	0.026
		1	104	1	49	20.87	0.1223	14.22	0.0264
		50	25	50	0	20.81	0.1206	14.16	0.0261
	256QA M DFT-s-	1	1	1	0	20.81	0.1206	14.16	0.0261
		1	104	1	49	20.41	0.1098	13.76	0.0238
		50	25	50	0	20.80	0.1203	14.15	0.026
Limit	ERP < 3W					Result		PASS	

EN-DC n71 (ANT1)+66A (ANT3)Combination 5MHz+20MHz(LTE)(GT - LC = -4.5 dB)									
Channel	Mode	NR		LTE		Conducted		ERP	
		RB		RB					
		Size	Offset	Size	Offset	Power(dBm)	Power(Watts)	ERP(dBm)	ERP(W)
Lowest	PI/2 BPSK DFT-s-	1	1	1	0	23.07	0.2027	16.42	0.0438
		1	49	1	99	22.87	0.1936	16.22	0.0419
		25	12	100	0	23.03	0.2008	16.38	0.0434
	QPSK DFT-s- OFDM	1	1	1	0	22.98	0.1985	16.33	0.0429
		1	49	1	99	22.78	0.1896	16.13	0.041
		25	12	100	0	23.01	0.1999	16.36	0.0432
	16QAM DFT-s- OFDM	1	1	1	0	22.43	0.1751	15.78	0.0379
		1	104	1	49	22.33	0.1712	15.68	0.037
		50	25	50	0	22.40	0.1739	15.75	0.0376
	64QAM DFT-s- OFDM	1	1	1	0	21.21	0.1322	14.56	0.0286
		1	104	1	49	20.84	0.1214	14.19	0.0263
		50	25	50	0	21.17	0.1309	14.52	0.0283
	256QA M DFT-s-	1	1	1	0	21.01	0.1262	14.36	0.0273
		1	104	1	49	20.90	0.1231	14.25	0.0266
		50	25	50	0	21.02	0.1265	14.37	0.0274
Middle	PI/2 BPSK DFT-s-	1	1	1	0	23.01	0.1999	16.36	0.0432
		1	49	1	99	22.88	0.194	16.23	0.042
		25	12	100	0	22.98	0.1985	16.33	0.0429
	QPSK DFT-s- OFDM	1	1	1	0	22.83	0.1918	16.18	0.0415
		1	49	1	99	22.76	0.1888	16.11	0.0408
		25	12	100	0	22.94	0.1967	16.29	0.0425
	16QAM DFT-s- OFDM	1	1	1	0	22.42	0.1747	15.77	0.0378
		1	104	1	99	22.32	0.1707	15.67	0.0369
		50	25	100	0	22.32	0.1708	15.67	0.0369
	64QAM DFT-s- OFDM	1	1	1	0	21.10	0.1289	14.45	0.0279
		1	104	1	99	21.06	0.1277	14.41	0.0276
		50	25	100	0	21.19	0.1315	14.54	0.0284
	256QA M DFT-s-	1	1	1	0	20.95	0.1245	14.30	0.0269
		1	104	1	99	20.82	0.1209	14.17	0.0261
		50	25	100	0	21.00	0.1259	14.35	0.0272
	QPSK CP- OFDM	1	1	1	0	21.88	0.154	15.23	0.0333
		1	104	1	99	21.69	0.1475	15.04	0.0319
		50	25	100	0	21.94	0.1562	15.29	0.0338
	16QAM CP- OFDM	1	1	1	0	21.27	0.134	14.62	0.029
		1	104	1	99	21.07	0.128	14.42	0.0277
		50	25	100	0	21.47	0.1402	14.82	0.0303
	64QAM CP- OFDM	1	1	1	0	20.08	0.1018	13.43	0.022
		1	104	1	99	19.98	0.0996	13.33	0.0215
		50	25	100	0	20.05	0.1012	13.40	0.0219
	256QA M CP-	1	1	1	0	20.25	0.1059	13.60	0.0229
		1	104	1	99	20.14	0.1032	13.49	0.0223
		50	25	100	0	20.08	0.1018	13.43	0.022
Highest	PI/2 BPSK DFT-s-	1	1	1	0	22.75	0.1883	16.10	0.0407
		1	49	1	99	22.53	0.1791	15.88	0.0387
		25	12	100	0	22.71	0.1866	16.06	0.0404
	QPSK DFT-s- OFDM	1	1	1	0	22.82	0.1914	16.17	0.0414
		1	49	1	99	22.58	0.1812	15.93	0.0392
		25	12	100	0	22.75	0.1884	16.10	0.0407
	16QAM DFT-s- OFDM	1	1	1	0	22.34	0.1715	15.69	0.0371
		1	104	1	49	22.09	0.162	15.44	0.035
		50	25	50	0	22.19	0.1657	15.54	0.0358
	64QAM DFT-s- OFDM	1	1	1	0	20.85	0.1217	14.20	0.0263
		1	104	1	49	20.57	0.1139	13.92	0.0246
		50	25	50	0	20.93	0.1239	14.28	0.0268
	256QA M DFT-s-	1	1	1	0	20.83	0.1211	14.18	0.0262
		1	104	1	49	20.61	0.1152	13.96	0.0249
		50	25	50	0	20.90	0.1231	14.25	0.0266
Limit	ERP < 3W					Result		PASS	

5G NR n2-SA

SA n2 (ANT3)20MHz (GT - LC = -1 dB)							
Channel	Mode	NR		Conducted		EIRP	
		RB					
		Size	Offset	Power(dBm)	Power(Watts)	EIRP(dBm)	EIRP(W)
Lowest	PI/2 BPSK DFT-s-	1	1	23.13	0.2056	22.13	0.1633
		1	104	23.17	0.2075	22.17	0.1648
		50	25	23.18	0.208	22.18	0.1652
	QPSK DFT-s- OFDM	1	1	23.15	0.2065	22.15	0.1641
		1	104	23.09	0.2037	22.09	0.1618
		50	25	23.17	0.2075	22.17	0.1648
	16QAM DFT-s- OFDM	1	1	21.67	0.1469	20.67	0.1167
		1	104	21.72	0.1486	20.72	0.118
		50	25	21.59	0.1442	20.59	0.1146
	64QAM DFT-s- OFDM	1	1	20.56	0.1138	19.56	0.0904
		1	104	20.59	0.1146	19.59	0.091
		50	25	20.39	0.1094	19.39	0.0869
	256QA M DFT-s-	1	1	18.38	0.0689	17.38	0.0547
		1	104	18.20	0.0661	17.20	0.0525
		50	25	18.48	0.0705	17.48	0.056
Middle	PI/2 BPSK DFT-s-	1	1	23.16	0.207	22.16	0.1644
		1	104	22.96	0.1977	21.96	0.157
		50	25	23.13	0.2056	22.13	0.1633
	QPSK DFT-s- OFDM	1	1	23.15	0.2065	22.15	0.1641
		1	104	22.98	0.1986	21.98	0.1578
		50	25	23.12	0.2051	22.12	0.1629
	16QAM DFT-s- OFDM	1	1	21.77	0.1503	20.77	0.1194
		1	104	21.59	0.1442	20.59	0.1146
		50	25	21.85	0.1531	20.85	0.1216
	64QAM DFT-s- OFDM	1	1	20.49	0.1119	19.49	0.0889
		1	104	20.51	0.1125	19.51	0.0893
		50	25	20.38	0.1091	19.38	0.0867
	256QA M DFT-s-	1	1	18.19	0.0659	17.19	0.0524
		1	104	17.99	0.063	16.99	0.05
		50	25	18.29	0.0675	17.29	0.0536
	QPSK CP-s- OFDM	1	1	21.48	0.1406	20.48	0.1117
		1	104	21.33	0.1358	20.33	0.1079
		50	25	21.31	0.1352	20.31	0.1074
	16QAM CP-s- OFDM	1	1	21.16	0.1306	20.16	0.1038
		1	104	20.88	0.1225	19.88	0.0973
		50	25	20.76	0.1191	19.76	0.0946
	64QAM CP-s- OFDM	1	1	19.46	0.0883	18.46	0.0701
		1	104	19.34	0.0859	18.34	0.0682
		50	25	19.36	0.0863	18.36	0.0685
	256QA M CP-s-	1	1	16.65	0.0462	15.65	0.0367
		1	104	16.49	0.0446	15.49	0.0354
		50	25	16.36	0.0433	15.36	0.0344
Highest	PI/2 BPSK DFT-s-	1	1	23.11	0.2046	22.11	0.1626
		1	104	22.97	0.1982	21.97	0.1574
		50	25	22.97	0.1982	21.97	0.1574
	QPSK DFT-s- OFDM	1	1	22.82	0.1914	21.82	0.1521
		1	104	22.94	0.1968	21.94	0.1563
		50	25	23.08	0.2032	22.08	0.1614
	16QAM DFT-s- OFDM	1	1	21.51	0.1416	20.51	0.1125
		1	104	21.54	0.1426	20.54	0.1132
		50	25	21.76	0.15	20.76	0.1191
	64QAM DFT-s- OFDM	1	1	20.31	0.1074	19.31	0.0853
		1	104	20.31	0.1074	19.31	0.0853
		50	25	20.33	0.1079	19.33	0.0857
	256QA M DFT-s-	1	1	18.07	0.0641	17.07	0.0509
		1	104	17.89	0.0615	16.89	0.0489
		50	25	18.25	0.0668	17.25	0.0531
Limit	EIRP < 2W			Result		PASS	

SA n2 (ANT3)10MHz (GT - LC = -1 dB)							
Channel	Mode	NR		Conducted		EIRP	
		RB					
		Size	Offset	Power(dBm)	Power(Watts)	EIRP(dBm)	EIRP(W)
Lowest	PI/2 BPSK DFT-s-	1	1	23.16	0.207	22.16	0.1644
		1	50	23.06	0.2023	22.06	0.1607
		25	12	22.87	0.1936	21.87	0.1538
	QPSK DFT-s- OFDM	1	1	23.05	0.2018	22.05	0.1603
		1	50	23.11	0.2046	22.11	0.1626
		25	12	23.18	0.208	22.18	0.1652
	16QAM DFT-s- OFDM	1	1	21.63	0.1455	20.63	0.1156
		1	50	21.61	0.1449	20.61	0.1151
		25	12	21.89	0.1545	20.89	0.1227
	64QAM DFT-s- OFDM	1	1	20.28	0.1067	19.28	0.0847
		1	50	20.26	0.1062	19.26	0.0843
		25	12	20.34	0.1081	19.34	0.0859
	256QA M DFT-s-	1	1	18.29	0.0675	17.29	0.0536
		1	50	18.27	0.0671	17.27	0.0533
		25	12	18.41	0.0693	17.41	0.0551
Middle	PI/2 BPSK DFT-s-	1	1	23.08	0.2032	22.08	0.1614
		1	50	23.06	0.2023	22.06	0.1607
		25	12	23.10	0.2042	22.10	0.1622
	QPSK DFT-s- OFDM	1	1	23.02	0.2004	22.02	0.1592
		1	50	22.99	0.1991	21.99	0.1581
		25	12	23.11	0.2046	22.11	0.1626
	16QAM DFT-s- OFDM	1	1	21.63	0.1455	20.63	0.1156
		1	50	21.59	0.1442	20.59	0.1146
		25	12	21.83	0.1524	20.83	0.1211
	64QAM DFT-s- OFDM	1	1	20.27	0.1064	19.27	0.0845
		1	50	20.27	0.1064	19.27	0.0845
		25	12	20.27	0.1064	19.27	0.0845
	256QA M DFT-s-	1	1	18.22	0.0664	17.22	0.0527
		1	50	18.16	0.0655	17.16	0.052
		25	12	18.08	0.0643	17.08	0.0511
	QPSK CP-s- OFDM	1	1	21.36	0.1368	20.36	0.1086
		1	50	21.29	0.1346	20.29	0.1069
		25	12	21.32	0.1355	20.32	0.1076
	16QAM CP-s- OFDM	1	1	20.69	0.1172	19.69	0.0931
		1	50	20.85	0.1216	19.85	0.0966
		25	12	20.82	0.1208	19.82	0.0959
	64QAM CP-s- OFDM	1	1	19.42	0.0875	18.42	0.0695
		1	50	19.39	0.0869	18.39	0.069
		25	12	19.39	0.0869	18.39	0.069
	256QA M CP-s-	1	1	16.49	0.0446	15.49	0.0354
		1	50	16.48	0.0445	15.48	0.0353
		25	12	16.38	0.0435	15.38	0.0345
Highest	PI/2 BPSK DFT-s-	1	1	22.93	0.1963	21.93	0.156
		1	50	23.02	0.2004	22.02	0.1592
		25	12	22.98	0.1986	21.98	0.1578
	QPSK DFT-s- OFDM	1	1	22.92	0.1959	21.92	0.1556
		1	50	22.94	0.1968	21.94	0.1563
		25	12	23.02	0.2004	22.02	0.1592
	16QAM DFT-s- OFDM	1	1	21.57	0.1435	20.57	0.114
		1	50	21.57	0.1435	20.57	0.114
		25	12	21.73	0.1489	20.73	0.1183
	64QAM DFT-s- OFDM	1	1	20.08	0.1019	19.08	0.0809
		1	50	20.05	0.1012	19.05	0.0804
		25	12	20.13	0.103	19.13	0.0818
	256QA M DFT-s-	1	1	18.06	0.064	17.06	0.0508
		1	50	18.05	0.0638	17.05	0.0507
		25	12	18.22	0.0664	17.22	0.0527
Limit	EIRP < 2W			Result		PASS	

SA n2 (ANT3)5MHz (GT - LC = -1 dB)							
Channel	Mode	NR		Conducted		EIRP	
		RB					
		Size	Offset	Power(dBm)	Power(Watts)	EIRP(dBm)	EIRP(W)
Lowest	PI/2 BPSK DFT-s-	1	1	23.18	0.208	22.18	0.1652
		1	23	23.26	0.2118	22.26	0.1683
		12	6	23.29	0.2133	22.29	0.1694
	QPSK DFT-s-OFDM	1	1	23.02	0.2004	22.02	0.1592
		1	23	23.05	0.2018	22.05	0.1603
		12	6	23.23	0.2104	22.23	0.1677
	16QAM DFT-s-OFDM	1	1	21.66	0.1466	20.66	0.1164
		1	23	21.75	0.1496	20.75	0.1189
		12	6	21.92	0.1556	20.92	0.1236
	64QAM DFT-s-OFDM	1	1	20.44	0.1107	19.44	0.0879
		1	23	20.44	0.1107	19.44	0.0879
		12	6	20.48	0.1117	19.48	0.0887
	256QAM DFT-s-	1	1	18.16	0.0655	17.16	0.052
		1	23	18.34	0.0682	17.34	0.0542
		12	6	18.45	0.07	17.45	0.0556
Middle	PI/2 BPSK DFT-s-	1	1	23.19	0.2084	22.19	0.1656
		1	23	23.18	0.208	22.18	0.1652
		12	6	23.17	0.2075	22.17	0.1648
	QPSK DFT-s-OFDM	1	1	23.12	0.2051	22.12	0.1629
		1	23	23.20	0.2089	22.20	0.166
		12	6	23.21	0.2094	22.21	0.1663
	16QAM DFT-s-OFDM	1	1	21.56	0.1432	20.56	0.1138
		1	23	21.64	0.1459	20.64	0.1159
		12	6	21.81	0.1517	20.81	0.1205
	64QAM DFT-s-OFDM	1	1	20.23	0.1054	19.23	0.0838
		1	23	20.22	0.1052	19.22	0.0836
		12	6	20.37	0.1089	19.37	0.0865
	256QAM DFT-s-	1	1	18.19	0.0659	17.19	0.0524
		1	23	18.17	0.0656	17.17	0.0521
		12	6	19.36	0.0863	18.36	0.0685
	QPSK CP-s-OFDM	1	1	21.31	0.1352	20.31	0.1074
		1	23	21.39	0.1377	20.39	0.1094
		12	6	21.33	0.1358	20.33	0.1079
	16QAM CP-s-OFDM	1	1	20.79	0.1199	19.79	0.0953
		1	23	21.09	0.1285	20.09	0.1021
		12	6	20.84	0.1213	19.84	0.0964
	64QAM CP-s-OFDM	1	1	19.56	0.0904	18.56	0.0718
		1	23	19.56	0.0904	18.56	0.0718
		12	6	19.52	0.0895	18.52	0.0711
	256QAM CP-s-	1	1	16.65	0.0462	15.65	0.0367
		1	23	16.66	0.0463	15.66	0.0368
		12	6	16.43	0.044	15.43	0.0349
Highest	PI/2 BPSK DFT-s-	1	1	23.12	0.2051	22.12	0.1629
		1	23	23.17	0.2075	22.17	0.1648
		12	6	23.11	0.2046	22.11	0.1626
	QPSK DFT-s-OFDM	1	1	22.94	0.1968	21.94	0.1563
		1	23	22.99	0.1991	21.99	0.1581
		12	6	23.10	0.2042	22.10	0.1622
	16QAM DFT-s-OFDM	1	1	21.39	0.1377	20.39	0.1094
		1	23	21.47	0.1403	20.47	0.1114
		12	6	21.71	0.1483	20.71	0.1178
	64QAM DFT-s-OFDM	1	1	19.99	0.0998	18.99	0.0793
		1	23	19.99	0.0998	18.99	0.0793
		12	6	20.19	0.1045	19.19	0.083
	256QAM DFT-s-	1	1	18.04	0.0637	17.04	0.0506
		1	23	18.04	0.0637	17.04	0.0506
		12	6	18.24	0.0667	17.24	0.053
Limit	EIRP < 2W			Result		PASS	

5G NR n25-SA

SA n25 (ANT3)20MHz (GT - LC = -1 dB)							
Channel	Mode	NR		Conducted		EIRP	
		RB					
		Size	Offset	Power(dBm)	Power(Watts)	EIRP(dBm)	EIRP(W)
Lowest	PI/2 BPSK DFT-s-	1	1	22.95	0.1972	21.95	0.1567
		1	104	22.88	0.1941	21.88	0.1542
		50	25	23.11	0.2046	22.11	0.1626
	QPSK DFT-s- OFDM	1	1	23.01	0.2	22.01	0.1589
		1	104	22.95	0.1972	21.95	0.1567
		50	25	23.04	0.2014	22.04	0.16
	16QAM DFT-s- OFDM	1	1	22.19	0.1656	21.19	0.1315
		1	104	22.21	0.1663	21.21	0.1321
		50	25	21.84	0.1528	20.84	0.1213
	64QAM DFT-s- OFDM	1	1	20.37	0.1089	19.37	0.0865
		1	104	20.42	0.1102	19.42	0.0875
		50	25	20.38	0.1091	19.38	0.0867
	256QA M DFT-s-	1	1	18.38	0.0689	17.38	0.0547
		1	104	18.21	0.0662	17.21	0.0526
		50	25	18.53	0.0713	17.53	0.0566
Middle	PI/2 BPSK DFT-s-	1	1	23.08	0.2032	22.08	0.1614
		1	104	22.87	0.1936	21.87	0.1538
		50	25	22.96	0.1977	21.96	0.157
	QPSK DFT-s- OFDM	1	1	22.98	0.1986	21.98	0.1578
		1	104	23.08	0.2032	22.08	0.1614
		50	25	22.96	0.1977	21.96	0.157
	16QAM DFT-s- OFDM	1	1	21.65	0.1462	20.65	0.1161
		1	104	21.57	0.1435	20.57	0.114
		50	25	21.68	0.1472	20.68	0.1169
	64QAM DFT-s- OFDM	1	1	20.38	0.1091	19.38	0.0867
		1	104	20.35	0.1084	19.35	0.0861
		50	25	20.29	0.1069	19.29	0.0849
	256QA M DFT-s-	1	1	18.24	0.0667	17.24	0.053
		1	104	17.97	0.0627	16.97	0.0498
		50	25	18.31	0.0678	17.31	0.0538
	QPSK CP-s- OFDM	1	1	21.41	0.1384	20.41	0.1099
		1	104	21.53	0.1422	20.53	0.113
		50	25	21.44	0.1393	20.44	0.1107
	16QAM CP-s- OFDM	1	1	20.74	0.1186	19.74	0.0942
		1	104	20.75	0.1189	19.75	0.0944
		50	25	21.02	0.1265	20.02	0.1005
	64QAM CP-s- OFDM	1	1	19.79	0.0953	18.79	0.0757
		1	104	19.68	0.0929	18.68	0.0738
		50	25	19.64	0.092	18.64	0.0731
	256QA M CP-s-	1	1	16.82	0.0481	15.82	0.0382
		1	104	16.67	0.0465	15.67	0.0369
		50	25	16.60	0.0457	15.60	0.0363
Highest	PI/2 BPSK DFT-s-	1	1	22.98	0.1986	21.98	0.1578
		1	104	22.83	0.1919	21.83	0.1524
		50	25	23.04	0.2014	22.04	0.16
	QPSK DFT-s- OFDM	1	1	22.96	0.1977	21.96	0.157
		1	104	23.08	0.2032	22.08	0.1614
		50	25	22.89	0.1945	21.89	0.1545
	16QAM DFT-s- OFDM	1	1	21.70	0.1479	20.70	0.1175
		1	104	21.62	0.1452	20.62	0.1153
		50	25	21.92	0.1556	20.92	0.1236
	64QAM DFT-s- OFDM	1	1	20.18	0.1042	19.18	0.0828
		1	104	20.07	0.1016	19.07	0.0807
		50	25	20.48	0.1117	19.48	0.0887
	256QA M DFT-s-	1	1	18.35	0.0684	17.35	0.0543
		1	104	18.25	0.0668	17.25	0.0531
		50	25	18.49	0.0706	17.49	0.0561
Limit	EIRP < 2W			Result		PASS	

SA n25 (ANT3)10MHz (GT - LC = -1 dB)							
Channel	Mode	NR		Conducted		EIRP	
		RB					
		Size	Offset	Power(dBm)	Power(Watts)	EIRP(dBm)	EIRP(W)
Lowest	PI/2 BPSK DFT-s-	1	1	22.87	0.1936	21.87	0.1538
		1	50	22.90	0.195	21.90	0.1549
		25	12	22.86	0.1932	21.86	0.1535
	QPSK DFT-s- OFDM	1	1	22.88	0.1941	21.88	0.1542
		1	50	22.95	0.1972	21.95	0.1567
		25	12	22.93	0.1963	21.93	0.156
	16QAM DFT-s- OFDM	1	1	21.79	0.151	20.79	0.1199
		1	50	21.76	0.15	20.76	0.1191
		25	12	21.98	0.1578	20.98	0.1253
	64QAM DFT-s- OFDM	1	1	20.09	0.1021	19.09	0.0811
		1	50	20.12	0.1028	19.12	0.0817
		25	12	20.51	0.1125	19.51	0.0893
	256QA M DFT-s-	1	1	18.47	0.0703	17.47	0.0558
		1	50	18.46	0.0701	17.46	0.0557
		25	12	18.68	0.0738	17.68	0.0586
Middle	PI/2 BPSK DFT-s-	1	1	22.89	0.1945	21.89	0.1545
		1	50	22.93	0.1963	21.93	0.156
		25	12	22.96	0.1977	21.96	0.157
	QPSK DFT-s- OFDM	1	1	22.91	0.1954	21.91	0.1552
		1	50	22.95	0.1972	21.95	0.1567
		25	12	22.95	0.1972	21.95	0.1567
	16QAM DFT-s- OFDM	1	1	21.70	0.1479	20.70	0.1175
		1	50	21.69	0.1476	20.69	0.1172
		25	12	21.98	0.1578	20.98	0.1253
	64QAM DFT-s- OFDM	1	1	20.01	0.1002	19.01	0.0796
		1	50	19.93	0.0984	18.93	0.0782
		25	12	20.48	0.1117	19.48	0.0887
	256QA M DFT-s-	1	1	18.32	0.0679	17.32	0.054
		1	50	18.26	0.067	17.26	0.0532
		25	12	18.46	0.0701	17.46	0.0557
	QPSK CP-s- OFDM	1	1	21.58	0.1439	20.58	0.1143
		1	50	21.49	0.1409	20.49	0.1119
		26	13	21.51	0.1416	20.51	0.1125
	16QAM CP-s- OFDM	1	1	20.66	0.1164	19.66	0.0925
		1	50	20.77	0.1194	19.77	0.0948
		26	13	21.08	0.1282	20.08	0.1019
	64QAM CP-s- OFDM	1	1	19.64	0.092	18.64	0.0731
		1	50	19.72	0.0938	18.72	0.0745
		26	13	19.71	0.0935	18.71	0.0743
	256QA M CP-s-	1	1	16.67	0.0465	15.67	0.0369
		1	50	16.74	0.0472	15.74	0.0375
		26	13	16.53	0.045	15.53	0.0357
Highest	PI/2 BPSK DFT-s-	1	1	22.94	0.1968	21.94	0.1563
		1	50	22.89	0.1945	21.89	0.1545
		25	12	23.03	0.2009	22.03	0.1596
	QPSK DFT-s- OFDM	1	1	22.92	0.1959	21.92	0.1556
		1	50	22.98	0.1986	21.98	0.1578
		25	12	23.01	0.2	22.01	0.1589
	16QAM DFT-s- OFDM	1	1	21.65	0.1462	20.65	0.1161
		1	50	21.68	0.1472	20.68	0.1169
		25	12	21.80	0.1514	20.80	0.1202
	64QAM DFT-s- OFDM	1	1	19.97	0.0993	18.97	0.0789
		1	50	20.10	0.1023	19.10	0.0813
		25	12	20.32	0.1076	19.32	0.0855
	256QA M DFT-s-	1	1	18.37	0.0687	17.37	0.0546
		1	50	18.31	0.0678	17.31	0.0538
		25	12	18.51	0.071	17.51	0.0564
Limit	EIRP < 2W			Result		PASS	

SA n25 (ANT3)5MHz (GT - LC = -1 dB)							
Channel	Mode	NR		Conducted		EIRP	
		RB					
		Size	Offset	Power(dBm)	Power(Watts)	EIRP(dBm)	EIRP(W)
Lowest	PI/2 BPSK DFT-s-	1	1	22.94	0.1968	21.94	0.1563
		1	23	22.89	0.1945	21.89	0.1545
		12	6	22.91	0.1954	21.91	0.1552
	QPSK DFT-s- OFDM	1	1	22.96	0.1977	21.96	0.157
		1	23	22.89	0.1945	21.89	0.1545
		12	6	22.95	0.1972	21.95	0.1567
	16QAM DFT-s- OFDM	1	1	21.90	0.1549	20.90	0.123
		1	23	21.96	0.157	20.96	0.1247
		12	6	22.06	0.1607	21.06	0.1276
	64QAM DFT-s- OFDM	1	1	20.25	0.1059	19.25	0.0841
		1	23	20.36	0.1086	19.36	0.0863
		12	6	20.61	0.1151	19.61	0.0914
	256QA M DFT-s-	1	1	18.54	0.0714	17.54	0.0568
		1	23	18.56	0.0718	17.56	0.057
		12	6	18.68	0.0738	17.68	0.0586
Middle	PI/2 BPSK DFT-s-	1	1	22.98	0.1986	21.98	0.1578
		1	23	23.01	0.2	22.01	0.1589
		12	6	22.87	0.1936	21.87	0.1538
	QPSK DFT-s- OFDM	1	1	22.94	0.1968	21.94	0.1563
		1	23	22.89	0.1945	21.89	0.1545
		12	6	22.79	0.1901	21.79	0.151
	16QAM DFT-s- OFDM	1	1	21.83	0.1524	20.83	0.1211
		1	23	21.81	0.1517	20.81	0.1205
		12	6	22.14	0.1637	21.14	0.13
	64QAM DFT-s- OFDM	1	1	20.60	0.1148	19.60	0.0912
		1	23	20.66	0.1164	19.66	0.0925
		12	6	20.53	0.113	19.53	0.0897
	256QA M DFT-s-	1	1	20.58	0.1143	19.58	0.0908
		1	23	20.64	0.1159	19.64	0.092
		12	6	20.56	0.1138	19.56	0.0904
	QPSK CP-s- OFDM	1	1	21.58	0.1439	20.58	0.1143
		1	23	21.59	0.1442	20.59	0.1146
		13	6	21.52	0.1419	20.52	0.1127
	16QAM CP-s- OFDM	1	1	20.76	0.1191	19.76	0.0946
		1	23	20.94	0.1242	19.94	0.0986
		13	6	20.92	0.1236	19.92	0.0982
	64QAM CP-s- OFDM	1	1	19.68	0.0929	18.68	0.0738
		1	23	19.75	0.0944	18.75	0.075
		13	6	19.61	0.0914	18.61	0.0726
	256QA M CP-s-	1	1	16.75	0.0473	15.75	0.0376
		1	23	16.64	0.0461	15.64	0.0366
		13	6	16.54	0.0451	15.54	0.0358
Highest	PI/2 BPSK DFT-s-	1	1	23.03	0.2009	22.03	0.1596
		1	23	22.88	0.1941	21.88	0.1542
		12	6	22.97	0.1982	21.97	0.1574
	QPSK DFT-s- OFDM	1	1	23.10	0.2042	22.10	0.1622
		1	23	22.94	0.1968	21.94	0.1563
		12	6	22.98	0.1986	21.98	0.1578
	16QAM DFT-s- OFDM	1	1	21.63	0.1455	20.63	0.1156
		1	23	21.67	0.1469	20.67	0.1167
		12	6	21.87	0.1538	20.87	0.1222
	64QAM DFT-s- OFDM	1	1	19.93	0.0984	18.93	0.0782
		1	23	19.95	0.0989	18.95	0.0785
		12	6	20.45	0.1109	19.45	0.0881
	256QA M DFT-s-	1	1	18.27	0.0671	17.27	0.0533
		1	23	18.36	0.0685	17.36	0.0545
		12	6	18.41	0.0693	17.41	0.0551
Limit	EIRP < 2W			Result		PASS	

5G NR n41-SA

SA n41 (ANT3)100MHz (GT - LC = -0.5 dB)							
Channel	Mode	NR		Conducted		EIRP	
		RB					
		Size	Offset	Power(dBm)	Power(Watts)	EIRP(dBm)	EIRP(W)
Lowest	PI/2 BPSK DFT-s-	1	1	25.55	0.3589	25.05	0.3199
		1	271	25.33	0.3412	24.83	0.3041
		135	67	25.54	0.3581	25.04	0.3192
	QPSK DFT-s- OFDM	1	1	25.31	0.3396	24.81	0.3027
		1	271	25.01	0.317	24.51	0.2825
		135	67	25.33	0.3412	24.83	0.3041
	16QAM DFT-s- OFDM	1	1	25.22	0.3327	24.72	0.2965
		1	271	24.79	0.3013	24.29	0.2685
		135	67	25.17	0.3289	24.67	0.2931
	64QAM DFT-s- OFDM	1	1	23.23	0.2104	22.73	0.1875
		1	271	23.02	0.2004	22.52	0.1786
		135	67	23.45	0.2213	22.95	0.1972
	256QA M DFT-s-	1	1	21.53	0.1422	21.03	0.1268
		1	271	21.08	0.1282	20.58	0.1143
		135	67	21.51	0.1416	21.01	0.1262
Middle	PI/2 BPSK DFT-s-	1	1	25.40	0.3467	24.90	0.309
		1	271	25.29	0.3381	24.79	0.3013
		135	67	25.58	0.3614	25.08	0.3221
	QPSK DFT-s- OFDM	1	1	25.61	0.3639	25.11	0.3243
		1	271	25.28	0.3373	24.78	0.3006
		135	67	25.46	0.3516	24.96	0.3133
	16QAM DFT-s- OFDM	1	1	25.33	0.3412	24.83	0.3041
		1	271	24.96	0.3133	24.46	0.2793
		135	67	24.84	0.3048	24.34	0.2716
	64QAM DFT-s- OFDM	1	1	23.36	0.2168	22.86	0.1932
		1	271	22.88	0.1941	22.38	0.173
		135	67	23.49	0.2234	22.99	0.1991
	256QA M DFT-s-	1	1	21.59	0.1442	21.09	0.1285
		1	271	21.23	0.1327	20.73	0.1183
		135	67	21.51	0.1416	21.01	0.1262
	QPSK CP-s- OFDM	1	1	24.79	0.3013	24.29	0.2685
		1	271	24.43	0.2773	23.93	0.2472
		135	67	24.47	0.2799	23.97	0.2495
	16QAM CP-s- OFDM	1	1	24.37	0.2735	23.87	0.2438
		1	271	24.02	0.2523	23.52	0.2249
		135	67	23.85	0.2427	23.35	0.2163
	64QAM CP-s- OFDM	1	1	22.29	0.1694	21.79	0.151
		1	271	22.02	0.1592	21.52	0.1419
		135	67	22.42	0.1746	21.92	0.1556
	256QA M CP-s-	1	1	19.61	0.0914	19.11	0.0815
		1	271	19.33	0.0857	18.83	0.0764
		135	67	19.55	0.0902	19.05	0.0804
Highest	PI/2 BPSK DFT-s-	1	1	25.50	0.3548	25.00	0.3162
		1	271	25.26	0.3357	24.76	0.2992
		135	67	25.38	0.3451	24.88	0.3076
	QPSK DFT-s- OFDM	1	1	25.59	0.3622	25.09	0.3228
		1	271	25.23	0.3334	24.73	0.2972
		135	67	25.28	0.3373	24.78	0.3006
	16QAM DFT-s- OFDM	1	1	25.24	0.3342	24.74	0.2979
		1	271	25.01	0.317	24.51	0.2825
		135	67	24.91	0.3097	24.41	0.2761
	64QAM DFT-s- OFDM	1	1	23.48	0.2228	22.98	0.1986
		1	271	23.12	0.2051	22.62	0.1828
		135	67	23.45	0.2213	22.95	0.1972
	256QA M DFT-s-	1	1	21.56	0.1432	21.06	0.1276
		1	271	21.41	0.1384	20.91	0.1233
		135	67	21.51	0.1416	21.01	0.1262
Limit	EIRP < 2W			Result		PASS	

SA n41 (ANT3)60MHz (GT - LC = -0.5 dB)							
Channel	Mode	NR		Conducted		EIRP	
		RB					
		Size	Offset	Power(dBm)	Power(Watts)	EIRP(dBm)	EIRP(W)
Lowest	PI/2 BPSK DFT-s-	1	1	25.54	0.3581	25.04	0.3192
		1	160	25.60	0.3631	25.10	0.3236
		81	40	25.62	0.3648	25.12	0.3251
	QPSK DFT-s- OFDM	1	1	25.57	0.3606	25.07	0.3214
		1	160	25.60	0.3631	25.10	0.3236
		81	40	25.65	0.3673	25.15	0.3273
	16QAM DFT-s- OFDM	1	1	25.25	0.335	24.75	0.2985
		1	160	25.02	0.3177	24.52	0.2831
		81	40	24.95	0.3126	24.45	0.2786
	64QAM DFT-s- OFDM	1	1	23.25	0.2113	22.75	0.1884
		1	160	23.13	0.2056	22.63	0.1832
		81	40	23.52	0.2249	23.02	0.2004
	256QA M DFT-s-	1	1	21.35	0.1365	20.85	0.1216
		1	160	21.27	0.134	20.77	0.1194
		81	40	21.84	0.1528	21.34	0.1361
	Middle	PI/2 BPSK DFT-s-	1	1	25.64	0.3664	25.14
1			160	25.62	0.3648	25.12	0.3251
81			40	25.49	0.354	24.99	0.3155
QPSK DFT-s- OFDM		1	1	25.57	0.3606	25.07	0.3214
		1	160	25.69	0.3707	25.19	0.3304
		81	40	25.52	0.3565	25.02	0.3177
16QAM DFT-s- OFDM		1	1	25.11	0.3243	24.61	0.2891
		1	160	25.04	0.3192	24.54	0.2844
		81	40	25.01	0.317	24.51	0.2825
64QAM DFT-s- OFDM		1	1	23.18	0.208	22.68	0.1854
		1	160	23.37	0.2173	22.87	0.1936
		81	40	23.49	0.2234	22.99	0.1991
256QA M DFT-s-		1	1	21.33	0.1358	20.83	0.1211
		1	160	21.43	0.139	20.93	0.1239
		81	40	21.62	0.1452	21.12	0.1294
QPSK CP-s- OFDM		1	1	24.41	0.2761	23.91	0.246
		1	160	24.27	0.2673	23.77	0.2382
		81	40	24.25	0.2661	23.75	0.2371
16QAM CP-s- OFDM		1	1	23.04	0.2014	22.54	0.1795
		1	160	23.78	0.2388	23.28	0.2128
		81	40	23.72	0.2355	23.22	0.2099
64QAM CP-s- OFDM		1	1	22.14	0.1637	21.64	0.1459
		1	160	21.89	0.1545	21.39	0.1377
		81	40	22.34	0.1714	21.84	0.1528
256QA M CP-s-		1	1	19.43	0.0877	18.93	0.0782
		1	160	19.31	0.0853	18.81	0.076
		81	40	19.29	0.0849	18.79	0.0757
Highest		PI/2 BPSK DFT-s-	1	1	25.50	0.3548	25.00
	1		160	25.53	0.3573	25.03	0.3184
	81		40	25.54	0.3581	25.04	0.3192
	QPSK DFT-s- OFDM	1	1	25.50	0.3548	25.00	0.3162
		1	160	25.58	0.3614	25.08	0.3221
		81	40	25.59	0.3622	25.09	0.3228
	16QAM DFT-s- OFDM	1	1	25.15	0.3273	24.65	0.2917
		1	160	25.12	0.3251	24.62	0.2897
		81	40	24.84	0.3048	24.34	0.2716
	64QAM DFT-s- OFDM	1	1	23.17	0.2075	22.67	0.1849
		1	160	23.21	0.2094	22.71	0.1866
		81	40	23.31	0.2143	22.81	0.191
256QA M DFT-s-	1	1	21.21	0.1321	20.71	0.1178	
	1	160	21.37	0.1371	20.87	0.1222	
	81	40	21.49	0.1409	20.99	0.1256	
Limit	EIRP < 2W			Result		PASS	

SA n41 (ANT3)20MHz (GT - LC = -0.5 dB)							
Channel	Mode	NR		Conducted		EIRP	
		RB					
		Size	Offset	Power(dBm)	Power(Watts)	EIRP(dBm)	EIRP(W)
Lowest	PI/2 BPSK DFT-s-	1	1	25.59	0.3622	25.09	0.3228
		1	49	25.50	0.3548	25.00	0.3162
		25	12	25.58	0.3614	25.08	0.3221
	QPSK DFT-s- OFDM	1	1	25.61	0.3639	25.11	0.3243
		1	49	25.51	0.3556	25.01	0.317
		25	12	25.70	0.3715	25.20	0.3311
	16QAM DFT-s- OFDM	1	1	25.08	0.3221	24.58	0.2871
		1	49	24.99	0.3155	24.49	0.2812
		25	12	24.96	0.3133	24.46	0.2793
	64QAM DFT-s- OFDM	1	1	23.23	0.2104	22.73	0.1875
		1	49	22.98	0.1986	22.48	0.177
		25	12	23.43	0.2203	22.93	0.1963
	256QA M DFT-s-	1	1	21.15	0.1303	20.65	0.1161
		1	49	21.11	0.1291	20.61	0.1151
		25	12	21.09	0.1285	20.59	0.1146
Middle	PI/2 BPSK DFT-s-	1	1	25.63	0.3656	25.13	0.3258
		1	49	25.62	0.3648	25.12	0.3251
		25	12	25.56	0.3597	25.06	0.3206
	QPSK DFT-s- OFDM	1	1	25.63	0.3656	25.13	0.3258
		1	49	25.74	0.375	25.24	0.3342
		25	12	25.58	0.3614	25.08	0.3221
	16QAM DFT-s- OFDM	1	1	25.06	0.3206	24.56	0.2858
		1	49	24.87	0.3069	24.37	0.2735
		25	12	24.85	0.3055	24.35	0.2723
	64QAM DFT-s- OFDM	1	1	23.09	0.2037	22.59	0.1816
		1	49	22.92	0.1959	22.42	0.1746
		25	12	23.27	0.2123	22.77	0.1892
	256QA M DFT-s-	1	1	21.22	0.1324	20.72	0.118
		1	49	21.01	0.1262	20.51	0.1125
		25	12	21.34	0.1361	20.84	0.1213
	QPSK CP-s- OFDM	1	1	24.45	0.2786	23.95	0.2483
		1	49	24.31	0.2698	23.81	0.2404
		25	12	24.33	0.271	23.83	0.2415
	16QAM CP-s- OFDM	1	1	24.09	0.2564	23.59	0.2286
		1	49	23.81	0.2404	23.31	0.2143
		25	12	23.91	0.246	23.41	0.2193
	64QAM CP-s- OFDM	1	1	22.15	0.1641	21.65	0.1462
		1	49	21.93	0.156	21.43	0.139
		25	12	22.39	0.1734	21.89	0.1545
	256QA M CP-s-	1	1	19.37	0.0865	18.87	0.0771
		1	49	19.15	0.0822	18.65	0.0733
		25	12	19.39	0.0869	18.89	0.0774
Highest	PI/2 BPSK DFT-s-	1	1	25.71	0.3724	25.21	0.3319
		1	49	25.54	0.3581	25.04	0.3192
		25	12	25.70	0.3715	25.20	0.3311
	QPSK DFT-s- OFDM	1	1	25.68	0.3698	25.18	0.3296
		1	49	25.55	0.3589	25.05	0.3199
		25	12	25.63	0.3656	25.13	0.3258
	16QAM DFT-s- OFDM	1	1	25.12	0.3251	24.62	0.2897
		1	49	24.84	0.3048	24.34	0.2716
		25	12	24.92	0.3105	24.42	0.2767
	64QAM DFT-s- OFDM	1	1	23.09	0.2037	22.59	0.1816
		1	49	22.89	0.1945	22.39	0.1734
		25	12	23.36	0.2168	22.86	0.1932
	256QA M DFT-s-	1	1	21.15	0.1303	20.65	0.1161
		1	49	22.93	0.1963	22.43	0.175
		25	12	21.31	0.1352	20.81	0.1205
Limit	EIRP < 2W			Result		PASS	

5G NR n66-SA

SA n66 (ANT3)20MHz (GT - LC = -1 dB)							
Channel	Mode	NR		Conducted		EIRP	
		RB					
		Size	Offset	Power(dBm)	Power(Watts)	EIRP(dBm)	EIRP(W)
Lowest	PI/2 BPSK DFT-s-	1	1	23.37	0.2173	22.37	0.1726
		1	104	23.20	0.2089	22.20	0.166
		50	25	23.16	0.207	22.16	0.1644
	QPSK DFT-s- OFDM	1	1	23.15	0.2065	22.15	0.1641
		1	104	23.18	0.208	22.18	0.1652
		50	25	23.19	0.2084	22.19	0.1656
	16QAM DFT-s- OFDM	1	1	21.98	0.1578	20.98	0.1253
		1	104	22.12	0.1629	21.12	0.1294
		50	25	21.94	0.1563	20.94	0.1242
	64QAM DFT-s- OFDM	1	1	20.50	0.1122	19.50	0.0891
		1	104	20.60	0.1148	19.60	0.0912
		50	25	20.58	0.1143	19.58	0.0908
	256QA M DFT-s-	1	1	20.43	0.1104	19.43	0.0877
1		104	20.33	0.1079	19.33	0.0857	
50		25	20.56	0.1138	19.56	0.0904	
Middle	PI/2 BPSK DFT-s-	1	1	23.06	0.2023	22.06	0.1607
		1	104	23.12	0.2051	22.12	0.1629
		50	25	23.01	0.2	22.01	0.1589
	QPSK DFT-s- OFDM	1	1	23.08	0.2032	22.08	0.1614
		1	104	23.04	0.2014	22.04	0.16
		50	25	22.99	0.1991	21.99	0.1581
	16QAM DFT-s- OFDM	1	1	20.63	0.1156	19.63	0.0918
		1	104	20.60	0.1148	19.60	0.0912
		50	25	20.49	0.1119	19.49	0.0889
	64QAM DFT-s- OFDM	1	1	19.32	0.0855	18.32	0.0679
		1	104	19.24	0.0839	18.24	0.0667
		50	25	19.19	0.083	18.19	0.0659
	256QA M DFT-s-	1	1	16.49	0.0446	15.49	0.0354
		1	104	16.28	0.0425	15.28	0.0337
		50	25	16.21	0.0418	15.21	0.0332
	QPSK CP-s- OFDM	1	1	20.91	0.1233	19.91	0.0979
		1	104	21.23	0.1327	20.23	0.1054
		53	26	21.06	0.1276	20.06	0.1014
	16QAM CP-s- OFDM	1	1	20.45	0.1109	19.45	0.0881
		1	104	20.63	0.1156	19.63	0.0918
		53	26	20.59	0.1146	19.59	0.091
	64QAM CP-s- OFDM	1	1	19.35	0.0861	18.35	0.0684
		1	104	19.25	0.0841	18.25	0.0668
		53	26	19.14	0.082	18.14	0.0652
	256QA M CP-s-	1	1	16.45	0.0442	15.45	0.0351
		1	104	16.26	0.0423	15.26	0.0336
		53	26	16.20	0.0417	15.20	0.0331
Highest	PI/2 BPSK DFT-s-	1	1	23.19	0.2084	22.19	0.1656
		1	104	22.99	0.1991	21.99	0.1581
		50	25	23.13	0.2056	22.13	0.1633
	QPSK DFT-s- OFDM	1	1	23.16	0.207	22.16	0.1644
		1	104	23.07	0.2028	22.07	0.1611
		50	25	23.24	0.2109	22.24	0.1675
	16QAM DFT-s- OFDM	1	1	21.31	0.1352	20.31	0.1074
		1	104	21.21	0.1321	20.21	0.105
		50	25	21.38	0.1374	20.38	0.1091
	64QAM DFT-s- OFDM	1	1	19.62	0.0916	18.62	0.0728
		1	104	19.42	0.0875	18.42	0.0695
		50	25	19.78	0.0951	18.78	0.0755
	256QA M DFT-s-	1	1	17.74	0.0594	16.74	0.0472
		1	104	17.53	0.0566	16.53	0.045
		50	25	17.72	0.0592	16.72	0.047
Limit	EIRP < 1W			Result		PASS	

SA n66 (ANT3)10MHz (GT - LC = -1 dB)							
Channel	Mode	NR		Conducted		EIRP	
		RB					
		Size	Offset	Power(dBm)	Power(Watts)	EIRP(dBm)	EIRP(W)
Lowest	PI/2 BPSK DFT-s-	1	1	23.05	0.2018	22.05	0.1603
		1	50	23.12	0.2051	22.12	0.1629
		25	12	23.18	0.208	22.18	0.1652
	QPSK DFT-s- OFDM	1	1	23.18	0.208	22.18	0.1652
		1	50	23.26	0.2118	22.26	0.1683
		25	12	23.17	0.2075	22.17	0.1648
	16QAM DFT-s- OFDM	1	1	21.76	0.15	20.76	0.1191
		1	50	21.61	0.1449	20.61	0.1151
		25	12	21.74	0.1493	20.74	0.1186
	64QAM DFT-s- OFDM	1	1	20.01	0.1002	19.01	0.0796
		1	50	19.88	0.0973	18.88	0.0773
		25	12	20.17	0.104	19.17	0.0826
	256QA M DFT-s-	1	1	17.98	0.0628	16.98	0.0499
		1	50	17.95	0.0624	16.95	0.0495
		25	12	18.15	0.0653	17.15	0.0519
Middle	PI/2 BPSK DFT-s-	1	1	23.17	0.2075	22.17	0.1648
		1	50	23.09	0.2037	22.09	0.1618
		25	12	23.26	0.2118	22.26	0.1683
	QPSK DFT-s- OFDM	1	1	23.15	0.2065	22.15	0.1641
		1	50	23.22	0.2099	22.22	0.1667
		25	12	23.12	0.2051	22.12	0.1629
	16QAM DFT-s- OFDM	1	1	21.43	0.139	20.43	0.1104
		1	50	21.48	0.1406	20.48	0.1117
		25	12	21.42	0.1387	20.42	0.1102
	64QAM DFT-s- OFDM	1	1	19.55	0.0902	18.55	0.0716
		1	50	19.61	0.0914	18.61	0.0726
		25	12	19.94	0.0986	18.94	0.0783
	256QA M DFT-s-	1	1	17.73	0.0593	16.73	0.0471
		1	50	17.72	0.0592	16.72	0.047
		25	12	17.85	0.061	16.85	0.0484
	QPSK CP-s- OFDM	1	1	20.90	0.123	19.90	0.0977
		1	50	21.20	0.1318	20.20	0.1047
		23	13	21.01	0.1262	20.01	0.1002
	16QAM CP-s- OFDM	1	1	20.40	0.1096	19.40	0.0871
		1	50	20.55	0.1135	19.55	0.0902
		23	13	20.53	0.113	19.53	0.0897
	64QAM CP-s- OFDM	1	1	19.35	0.0861	18.35	0.0684
		1	50	19.25	0.0841	18.25	0.0668
		23	13	19.14	0.082	18.14	0.0652
	256QA M CP-s-	1	1	16.45	0.0442	15.45	0.0351
		1	50	16.26	0.0423	15.26	0.0336
		23	13	16.20	0.0417	15.20	0.0331
Highest	PI/2 BPSK DFT-s-	1	1	23.14	0.2061	22.14	0.1637
		1	50	23.27	0.2123	22.27	0.1687
		25	12	23.08	0.2032	22.08	0.1614
	QPSK DFT-s- OFDM	1	1	23.09	0.2037	22.09	0.1618
		1	50	23.21	0.2094	22.21	0.1663
		25	12	23.11	0.2046	22.11	0.1626
	16QAM DFT-s- OFDM	1	1	21.25	0.1334	20.25	0.1059
		1	50	21.21	0.1321	20.21	0.105
		25	12	21.35	0.1365	20.35	0.1084
	64QAM DFT-s- OFDM	1	1	19.60	0.0912	18.60	0.0724
		1	50	19.42	0.0875	18.42	0.0695
		25	12	19.78	0.0951	18.78	0.0755
	256QA M DFT-s-	1	1	17.74	0.0594	16.74	0.0472
		1	50	17.53	0.0566	16.53	0.045
		25	12	17.72	0.0592	16.72	0.047
Limit	EIRP < 1W			Result		PASS	

SA n66 (ANT3)5MHz (GT - LC = -1 dB)							
Channel	Mode	NR		Conducted		EIRP	
		RB					
		Size	Offset	Power(dBm)	Power(Watts)	EIRP(dBm)	EIRP(W)
Lowest	PI/2 BPSK DFT-s-	1	1	23.23	0.2104	22.23	0.1671
		1	23	23.14	0.2061	22.14	0.1637
		12	6	23.22	0.2099	22.22	0.1667
	QPSK DFT-s- OFDM	1	1	23.26	0.2118	22.26	0.1683
		1	23	23.19	0.2084	22.19	0.1656
		12	6	23.23	0.2104	22.23	0.1671
	16QAM DFT-s- OFDM	1	1	19.64	0.092	18.64	0.0731
		1	23	19.67	0.0927	18.67	0.0736
		12	6	19.71	0.0935	18.71	0.0743
	64QAM DFT-s- OFDM	1	1	18.82	0.0762	17.82	0.0605
		1	23	18.41	0.0693	17.41	0.0551
		12	6	18.29	0.0675	17.29	0.0536
	256QA M DFT-s-	1	1	15.18	0.033	14.18	0.0262
		1	23	15.19	0.033	14.19	0.0262
		12	6	15.31	0.034	14.31	0.027
Middle	PI/2 BPSK DFT-s-	1	1	23.24	0.2109	22.24	0.1675
		1	23	23.18	0.208	22.18	0.1652
		12	6	23.28	0.2128	22.28	0.169
	QPSK DFT-s- OFDM	1	1	23.17	0.2075	22.17	0.1648
		1	23	23.23	0.2104	22.23	0.1671
		12	6	23.09	0.2037	22.09	0.1618
	16QAM DFT-s- OFDM	1	1	21.40	0.138	20.40	0.1096
		1	23	21.45	0.1396	20.45	0.1109
		12	6	21.42	0.1387	20.42	0.1102
	64QAM DFT-s- OFDM	1	1	19.53	0.0897	18.53	0.0713
		1	23	19.61	0.0914	18.61	0.0726
		12	6	19.94	0.0986	18.94	0.0783
	256QA M DFT-s-	1	1	17.70	0.0589	16.70	0.0468
		1	23	17.72	0.0592	16.72	0.047
		12	6	17.85	0.061	16.85	0.0484
	QPSK CP-s- OFDM	1	1	20.89	0.1227	19.89	0.0975
		1	23	21.15	0.1303	20.15	0.1035
		13	6	21.01	0.1262	20.01	0.1002
	16QAM CP-s- OFDM	1	1	20.40	0.1096	19.40	0.0871
		1	23	20.53	0.113	19.53	0.0897
		13	6	20.53	0.113	19.53	0.0897
	64QAM CP-s- OFDM	1	1	19.31	0.0853	18.31	0.0678
		1	23	19.25	0.0841	18.25	0.0668
		13	6	19.14	0.082	18.14	0.0652
	256QA M CP-s-	1	1	16.44	0.0441	15.44	0.035
		1	23	16.26	0.0423	15.26	0.0336
		13	6	16.20	0.0417	15.20	0.0331
Highest	PI/2 BPSK DFT-s-	1	1	23.27	0.2123	22.27	0.1687
		1	23	23.08	0.2032	22.08	0.1614
		12	6	23.16	0.207	22.16	0.1644
	QPSK DFT-s- OFDM	1	1	23.25	0.2113	22.25	0.1679
		1	23	23.19	0.2084	22.19	0.1656
		12	6	23.24	0.2109	22.24	0.1675
	16QAM DFT-s- OFDM	1	1	21.20	0.1318	20.20	0.1047
		1	23	21.21	0.1321	20.21	0.105
		12	6	21.31	0.1352	20.31	0.1074
	64QAM DFT-s- OFDM	1	1	19.55	0.0902	18.55	0.0716
		1	23	19.40	0.0871	18.40	0.0692
		12	6	19.78	0.0951	18.78	0.0755
	256QA M DFT-s-	1	1	17.75	0.0596	16.75	0.0473
		1	23	17.53	0.0566	16.53	0.045
		12	6	17.72	0.0592	16.72	0.047
Limit	EIRP < 1W			Result		PASS	

5G NR n71-SA

SA n71 (ANT1)20MHz (GT - LC = -4.5 dB)							
Channel	Mode	NR		Conducted		ERP	
		RB					
		Size	Offset	Power(dBm)	Power(Watts)	ERP(dBm)	ERP(W)
Lowest	PI/2 BPSK DFT-s-	1	1	23.39	0.2183	16.74	0.0472
		1	104	23.23	0.2104	16.58	0.0455
		50	25	23.33	0.2153	16.68	0.0466
	QPSK DFT-s- OFDM	1	1	23.27	0.2123	16.62	0.0459
		1	104	23.04	0.2014	16.39	0.0436
		50	25	23.29	0.2133	16.64	0.0461
	16QAM DFT-s- OFDM	1	1	21.96	0.157	15.31	0.034
		1	104	21.75	0.1496	15.10	0.0324
		50	25	22.17	0.1648	15.52	0.0356
	64QAM DFT-s- OFDM	1	1	20.46	0.1112	13.81	0.024
		1	104	20.18	0.1042	13.53	0.0225
		50	25	20.78	0.1197	14.13	0.0259
	256QA M DFT-s-	1	1	18.49	0.0706	11.84	0.0153
		1	104	18.24	0.0667	11.59	0.0144
		50	25	18.73	0.0746	12.08	0.0161
Middle	PI/2 BPSK DFT-s-	1	1	23.15	0.2065	16.50	0.0447
		1	104	23.01	0.2	16.36	0.0433
		50	25	23.22	0.2099	16.57	0.0454
	QPSK DFT-s- OFDM	1	1	23.18	0.208	16.53	0.045
		1	104	23.03	0.2009	16.38	0.0435
		50	25	23.28	0.2128	16.63	0.046
	16QAM DFT-s- OFDM	1	1	21.89	0.1545	15.24	0.0334
		1	104	21.86	0.1535	15.21	0.0332
		50	25	22.14	0.1637	15.49	0.0354
	64QAM DFT-s- OFDM	1	1	20.44	0.1107	13.79	0.0239
		1	104	20.26	0.1062	13.61	0.023
		50	25	20.73	0.1183	14.08	0.0256
	256QA M DFT-s-	1	1	18.68	0.0738	12.03	0.016
		1	104	18.44	0.0698	11.79	0.0151
		50	25	18.68	0.0738	12.03	0.016
	QPSK CP-s- OFDM	1	1	23.17	0.2075	16.52	0.0449
		1	104	22.95	0.1972	16.30	0.0427
		53	26	23.16	0.207	16.51	0.0448
	16QAM CP-s- OFDM	1	1	21.94	0.1563	15.29	0.0338
		1	104	21.83	0.1524	15.18	0.033
		53	26	20.45	0.1109	13.80	0.024
	64QAM CP-s- OFDM	1	1	20.45	0.1109	13.80	0.024
		1	104	20.36	0.1086	13.71	0.0235
		53	26	20.46	0.1112	13.81	0.024
	256QA M CP-s-	1	1	18.72	0.0745	12.07	0.0161
		1	104	18.47	0.0703	11.82	0.0152
		53	26	18.70	0.0741	12.05	0.016
Highest	PI/2 BPSK DFT-s-	1	1	23.31	0.2143	16.66	0.0463
		1	104	23.12	0.2051	16.47	0.0444
		50	25	23.20	0.2089	16.55	0.0452
	QPSK DFT-s- OFDM	1	1	23.21	0.2094	16.56	0.0453
		1	104	23.01	0.2	16.36	0.0433
		50	25	23.25	0.2113	16.60	0.0457
	16QAM DFT-s- OFDM	1	1	22.05	0.1603	15.40	0.0347
		1	104	21.61	0.1449	14.96	0.0313
		50	25	22.05	0.1603	15.40	0.0347
	64QAM DFT-s- OFDM	1	1	20.48	0.1117	13.83	0.0242
		1	104	20.14	0.1033	13.49	0.0223
		50	25	20.65	0.1161	14.00	0.0251
	256QA M DFT-s-	1	1	18.44	0.0698	11.79	0.0151
		1	104	18.39	0.069	11.74	0.0149
		50	25	18.70	0.0741	12.05	0.016
Limit	ERP < 3W			Result		PASS	

SA n71 (ANT1)10MHz (GT - LC = -4.5 dB)							
Channel	Mode	NR		Conducted		ERP	
		RB					
		Size	Offset	Power(dBm)	Power(Watts)	ERP(dBm)	ERP(W)
Lowest	PI/2 BPSK DFT-s-	1	1	23.10	0.2042	16.45	0.0442
		1	50	23.46	0.2218	16.81	0.048
		25	12	23.31	0.2143	16.66	0.0463
	QPSK DFT-s- OFDM	1	1	23.07	0.2028	16.42	0.0439
		1	50	23.44	0.2208	16.79	0.0478
		25	12	23.31	0.2143	16.66	0.0463
	16QAM DFT-s- OFDM	1	1	21.97	0.1574	15.32	0.034
		1	50	21.86	0.1535	15.21	0.0332
		25	12	22.13	0.1633	15.48	0.0353
	64QAM DFT-s- OFDM	1	1	20.51	0.1125	13.86	0.0243
		1	50	20.31	0.1074	13.66	0.0232
		25	12	20.71	0.1178	14.06	0.0255
	256QA M DFT-s-	1	1	18.66	0.0735	12.01	0.0159
		1	50	18.42	0.0695	11.77	0.015
		25	12	18.79	0.0757	12.14	0.0164
Middle	PI/2 BPSK DFT-s-	1	1	23.25	0.2113	16.60	0.0457
		1	50	23.19	0.2084	16.54	0.0451
		25	12	23.33	0.2153	16.68	0.0466
	QPSK DFT-s- OFDM	1	1	23.17	0.2075	16.52	0.0449
		1	50	23.12	0.2051	16.47	0.0444
		25	12	23.34	0.2158	16.69	0.0467
	16QAM DFT-s- OFDM	1	1	22.00	0.1585	15.35	0.0343
		1	50	21.92	0.1556	15.27	0.0337
		25	12	20.03	0.1007	13.38	0.0218
	64QAM DFT-s- OFDM	1	1	20.28	0.1067	13.63	0.0231
		1	50	20.31	0.1074	13.66	0.0232
		25	12	20.66	0.1164	14.01	0.0252
	256QA M DFT-s-	1	1	18.19	0.0659	11.54	0.0143
		1	50	18.27	0.0671	11.62	0.0145
		25	12	18.56	0.0718	11.91	0.0155
	QPSK CP-s- OFDM	1	1	22.94	0.1968	16.29	0.0426
		1	50	22.89	0.1945	16.24	0.0421
		23	13	22.88	0.1941	16.23	0.042
	16QAM CP-s- OFDM	1	1	22.06	0.1607	15.41	0.0348
		1	50	22.00	0.1585	15.35	0.0343
		23	13	21.99	0.1581	15.34	0.0342
	64QAM CP-s- OFDM	1	1	20.40	0.1096	13.75	0.0237
		1	50	20.37	0.1089	13.72	0.0236
		23	13	20.41	0.1099	13.76	0.0238
	256QA M CP-s-	1	1	18.19	0.0659	11.54	0.0143
		1	50	18.26	0.067	11.61	0.0145
		23	13	18.55	0.0716	11.90	0.0155
Highest	PI/2 BPSK DFT-s-	1	1	23.18	0.208	16.53	0.045
		1	50	23.02	0.2004	16.37	0.0434
		25	12	23.12	0.2051	16.47	0.0444
	QPSK DFT-s- OFDM	1	1	23.26	0.2118	16.61	0.0458
		1	50	23.18	0.208	16.53	0.045
		25	12	23.17	0.2075	16.52	0.0449
	16QAM DFT-s- OFDM	1	1	22.09	0.1618	15.44	0.035
		1	50	21.98	0.1578	15.33	0.0341
		25	12	22.02	0.1592	15.37	0.0344
	64QAM DFT-s- OFDM	1	1	20.41	0.1099	13.76	0.0238
		1	50	20.18	0.1042	13.53	0.0225
		25	12	20.55	0.1135	13.90	0.0245
	256QA M DFT-s-	1	1	18.48	0.0705	11.83	0.0152
		1	50	18.33	0.0681	11.68	0.0147
		25	12	18.75	0.075	12.10	0.0162
Limit	ERP < 3W			Result		PASS	

SA n71 (ANT1)5MHz (GT - LC = -4.5 dB)							
Channel	Mode	NR		Conducted		ERP	
		RB					
		Size	Offset	Power(dBm)	Power(Watts)	ERP(dBm)	ERP(W)
Lowest	PI/2 BPSK DFT-s-	1	1	23.16	0.207	16.51	0.0448
		1	23	23.21	0.2094	16.56	0.0453
		12	6	23.23	0.2104	16.58	0.0455
	QPSK DFT-s- OFDM	1	1	23.21	0.2094	16.56	0.0453
		1	23	23.14	0.2061	16.49	0.0446
		12	6	23.22	0.2099	16.57	0.0454
	16QAM DFT-s- OFDM	1	1	21.97	0.1574	15.32	0.034
		1	23	21.52	0.1419	14.87	0.0307
		12	6	21.16	0.1306	14.51	0.0282
	64QAM DFT-s- OFDM	1	1	20.41	0.1099	13.76	0.0238
		1	23	20.29	0.1069	13.64	0.0231
		12	6	20.72	0.118	14.07	0.0255
	256QA M DFT-s-	1	1	18.69	0.074	12.04	0.016
		1	23	18.47	0.0703	11.82	0.0152
		12	6	18.74	0.0748	12.09	0.0162
Middle	PI/2 BPSK DFT-s-	1	1	23.19	0.2084	16.54	0.0451
		1	23	23.07	0.2028	16.42	0.0439
		12	6	23.24	0.2109	16.59	0.0456
	QPSK DFT-s- OFDM	1	1	23.24	0.2109	16.59	0.0456
		1	23	23.01	0.2	16.36	0.0433
		12	6	23.21	0.2094	16.56	0.0453
	16QAM DFT-s- OFDM	1	1	21.70	0.1479	15.05	0.032
		1	23	21.53	0.1422	14.88	0.0308
		12	6	21.84	0.1528	15.19	0.033
	64QAM DFT-s- OFDM	1	1	20.12	0.1028	13.47	0.0222
		1	23	20.13	0.103	13.48	0.0223
		12	6	20.50	0.1122	13.85	0.0243
	256QA M DFT-s-	1	1	18.31	0.0678	11.66	0.0147
		1	23	18.16	0.0655	11.51	0.0142
		12	6	18.35	0.0684	11.70	0.0148
	QPSK CP-s- OFDM	1	1	21.90	0.1549	15.25	0.0335
		1	23	22.85	0.1928	16.20	0.0417
		13	6	22.90	0.195	16.25	0.0422
	16QAM CP-s- OFDM	1	1	21.61	0.1449	14.96	0.0313
		1	23	21.54	0.1426	14.89	0.0308
		13	6	21.85	0.1531	15.20	0.0331
	64QAM CP-s- OFDM	1	1	19.97	0.0993	13.32	0.0215
		1	23	19.84	0.0964	13.19	0.0208
		13	6	20.47	0.1114	13.82	0.0241
	256QA M CP-s-	1	1	17.11	0.0514	10.46	0.0111
		1	23	17.02	0.0504	10.37	0.0109
		13	6	16.65	0.0462	10.00	0.01
Highest	PI/2 BPSK DFT-s-	1	1	23.34	0.2158	16.69	0.0467
		1	23	23.13	0.2056	16.48	0.0445
		12	6	23.23	0.2104	16.58	0.0455
	QPSK DFT-s- OFDM	1	1	23.26	0.2118	16.61	0.0458
		1	23	23.06	0.2023	16.41	0.0438
		12	6	23.22	0.2099	16.57	0.0454
	16QAM DFT-s- OFDM	1	1	21.91	0.1552	15.26	0.0336
		1	23	21.75	0.1496	15.10	0.0324
		12	6	21.96	0.157	15.31	0.034
	64QAM DFT-s- OFDM	1	1	20.35	0.1084	13.70	0.0234
		1	23	20.24	0.1057	13.59	0.0229
		12	6	20.46	0.1112	13.81	0.024
	256QA M DFT-s-	1	1	18.38	0.0689	11.73	0.0149
		1	23	18.28	0.0673	11.63	0.0146
		12	6	18.45	0.07	11.80	0.0151
Limit	ERP < 3W			Result		PASS	



5G NR n2

NSA

Peak-to-Average Ratio

Mode	FR1 n2+5A / 20MHz / DFT-S OFDM				
Mod.	PI/2 BPSK	PI/2 BPSK	QPSK	QPSK	Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	4.26	4.12	5.57	5.45	PASS
Middle CH	4.72	4.32	5.71	4.93	
Highest CH	4.58	3.8	6.03	5.77	



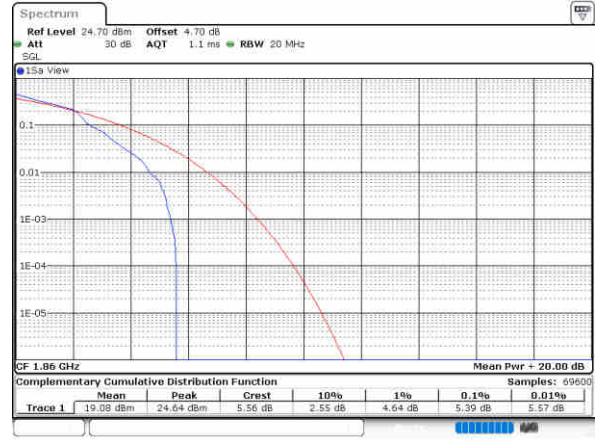
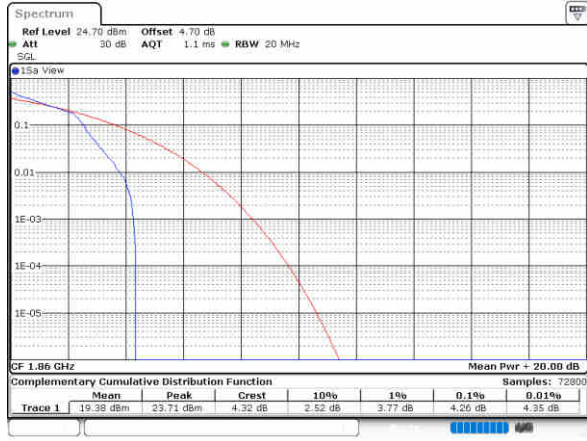
FR1 n2+5A / 20MHz / DFT-S OFDM

PI/2 BPSK

QPSK

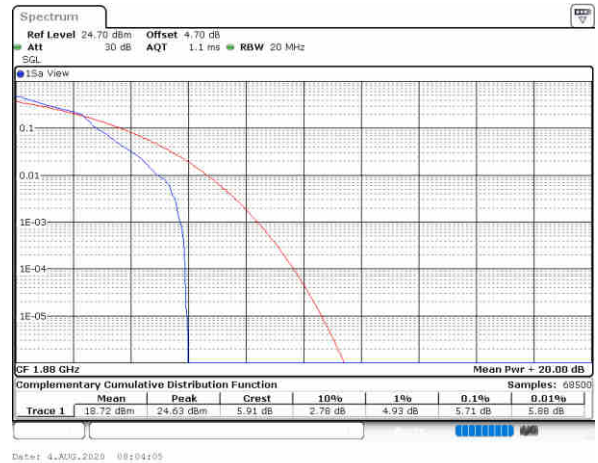
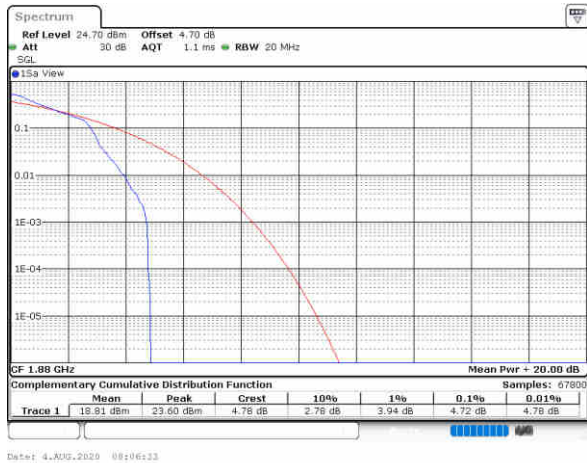
Lowest Channel / 1RB

Lowest Channel / 1RB



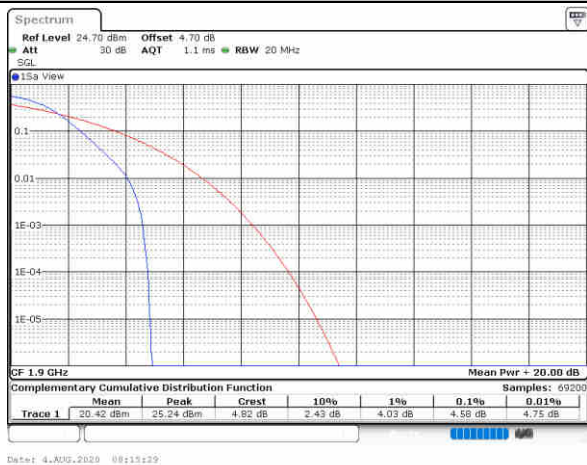
Middle Channel / 1 RB

Middle Channel / 1 RB



Highest Channel / 1 RB

Highest Channel / 1 RB





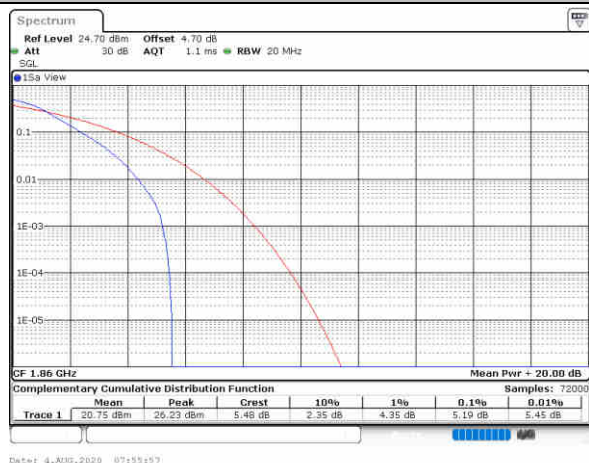
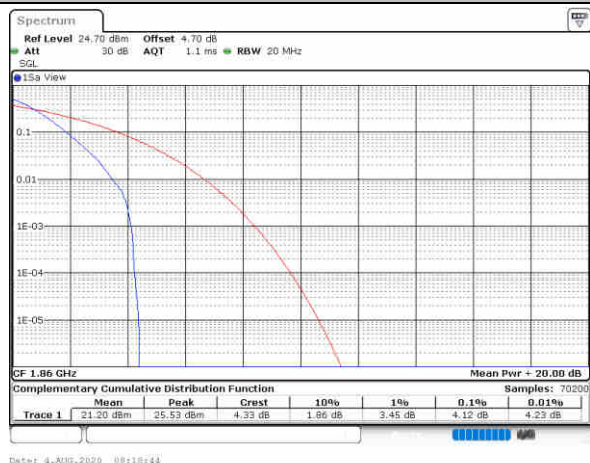
FR1 n2+5A / 20MHz / DFT-S OFDM

PI/2 BPSK

QPSK

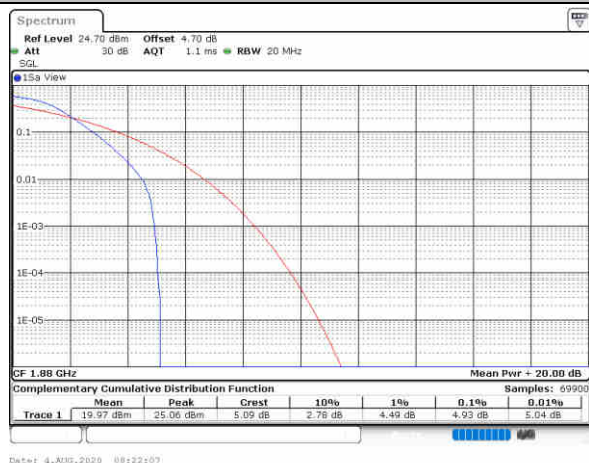
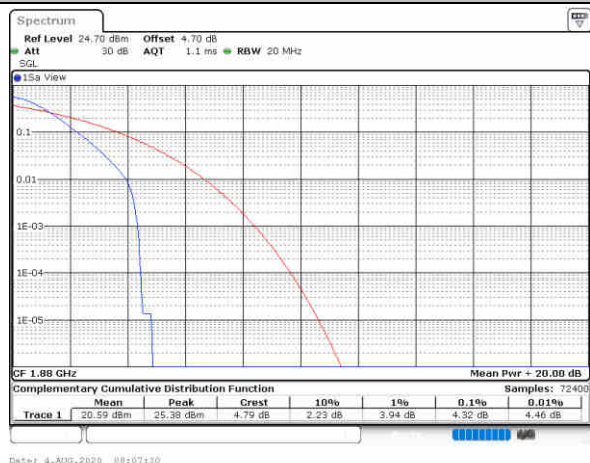
Lowest Channel / Full RB

Lowest Channel / Full RB



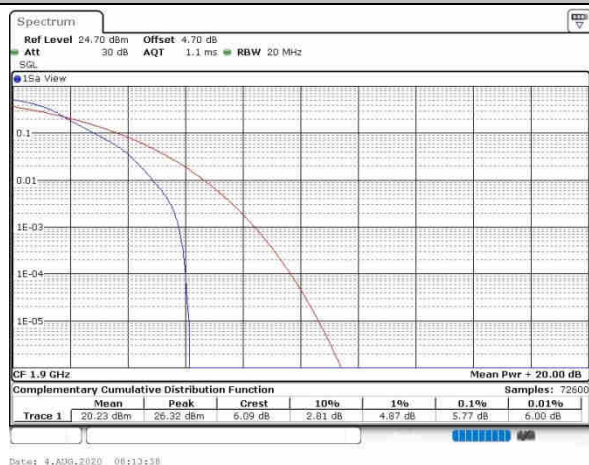
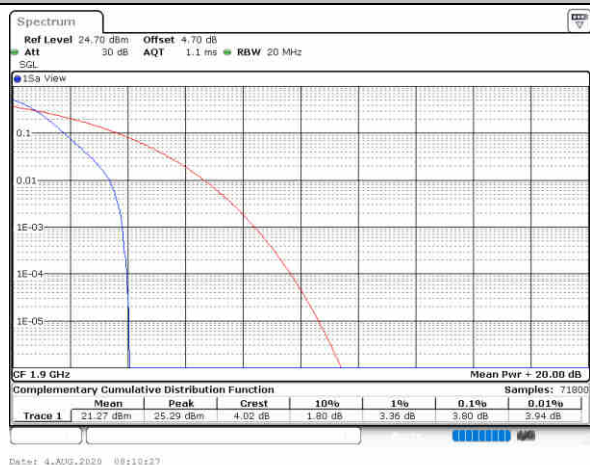
Middle Channel / Full RB

Middle Channel / Full RB



Highest Channel / Full RB

Highest Channel / Full RB





26dB Bandwidth

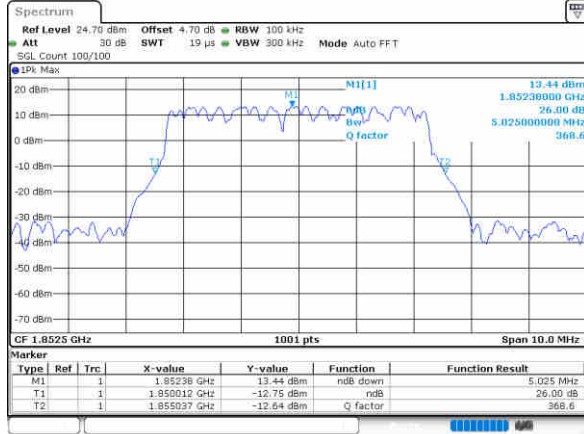
Mode	FR1 n2+5A : 26dB BW(MHz) / DFT-S OFDM							
BW	5MHz	5MHz	10MHz	10MHz	20MHz	20MHz		
Mod.	PI/2 BPSK	QPSK	PI/2 BPSK	QPSK	PI/2 BPSK	QPSK		
Lowest CH	5.02	4.78	9.33	9.35	18.66	18.74		
Middle CH	5.12	4.7	9.47	9.37	18.74	18.58		
Highest CH	4.7	5.1	9.25	9.43	18.7	18.58		



FR1 n2+5A / 5MHz / DFT-S OFDM

PI/2 BPSK

Lowest Channel



Date: 18_JUL_2020 @9:33:17

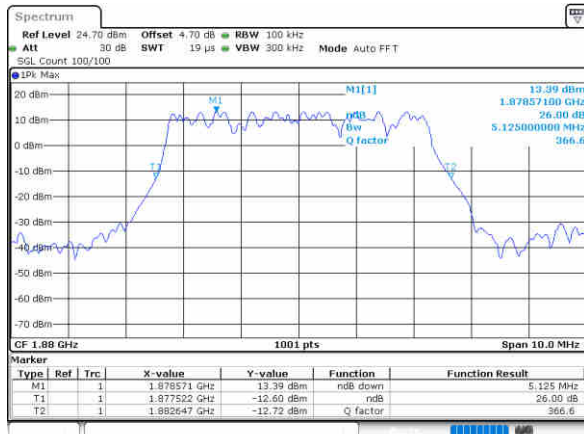
QPSK

Lowest Channel



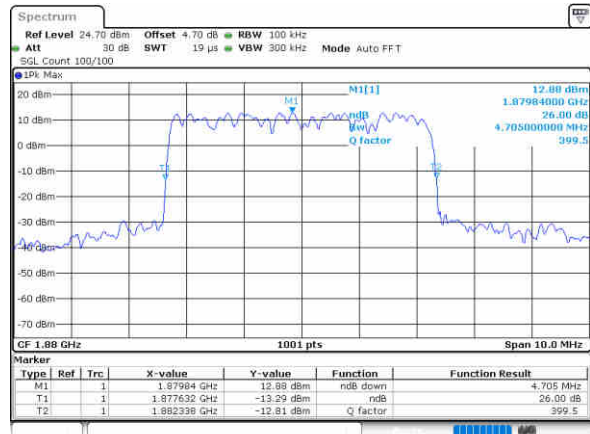
Date: 18_JUL_2020 @9:33:17

Middle Channel



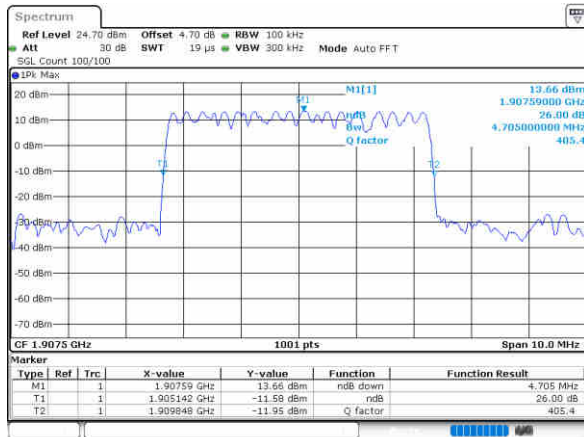
Date: 18_JUL_2020 @9:04:01

Middle Channel



Date: 18_JUL_2020 @9:04:29

Highest Channel



Date: 18_JUL_2020 @9:29:05

Highest Channel



Date: 18_JUL_2020 @9:29:46



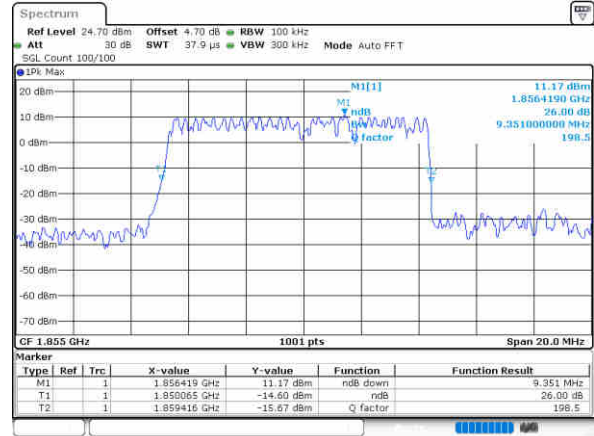
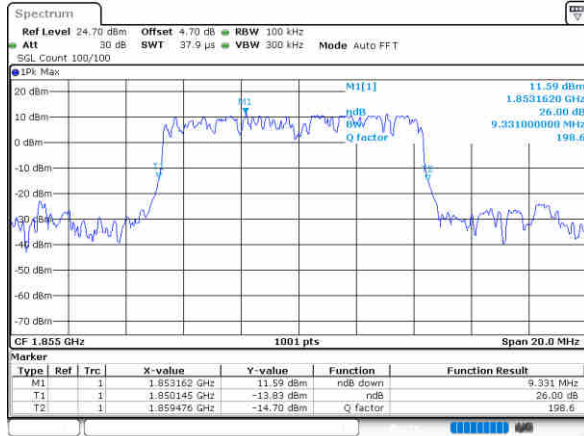
FR1 n2+5A / 10MHz / DFT-S OFDM

PI/2 BPSK

QPSK

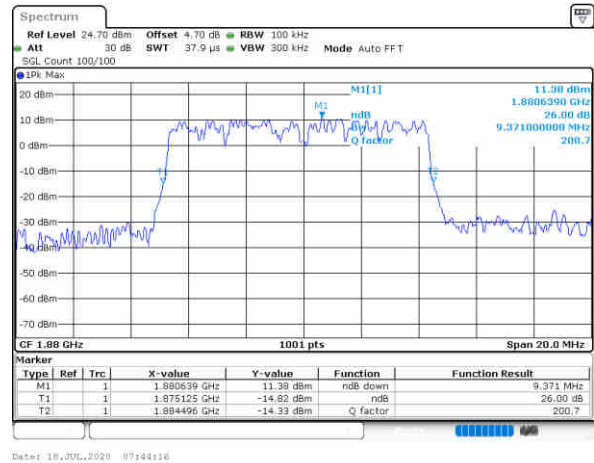
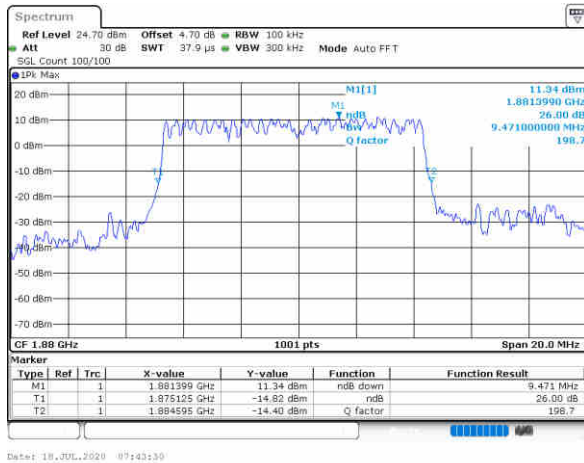
Lowest Channel

Lowest Channel



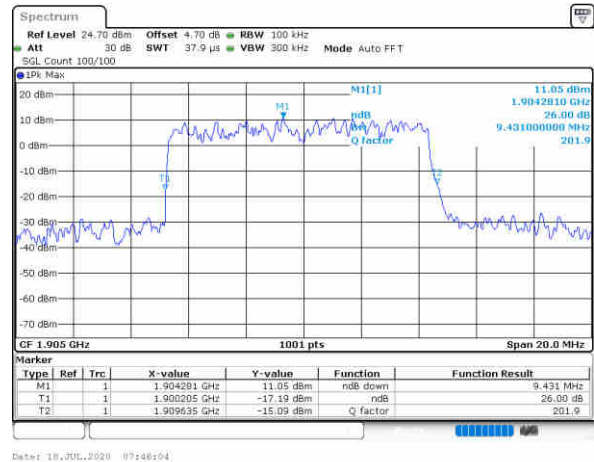
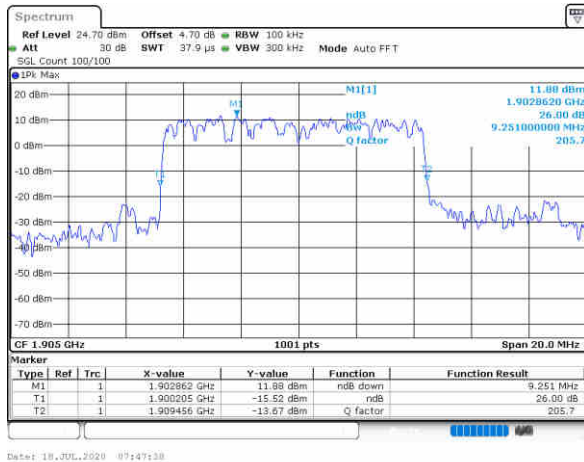
Middle Channel

Middle Channel



Highest Channel

Highest Channel





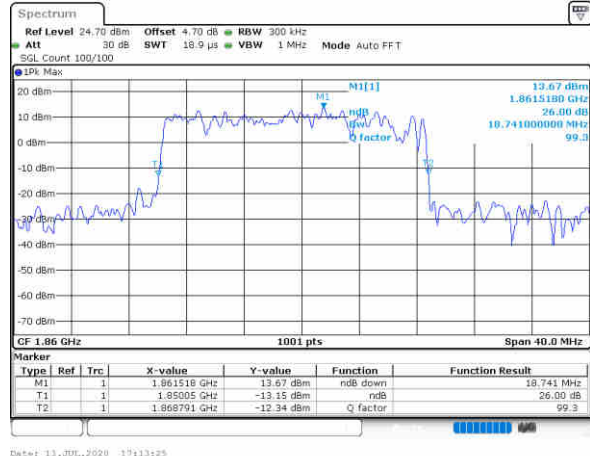
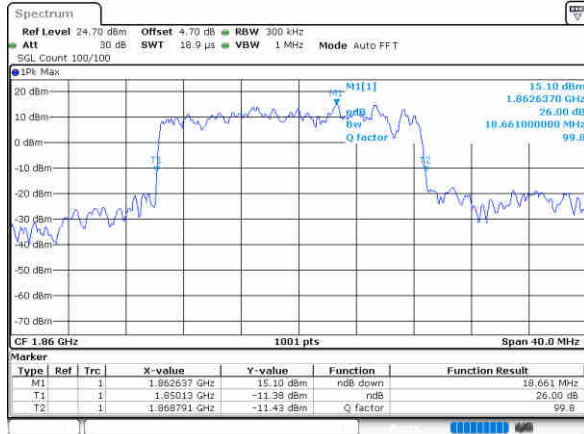
FR1 n2+5A / 20MHz / DFT-S OFDM

PI/2 BPSK

QPSK

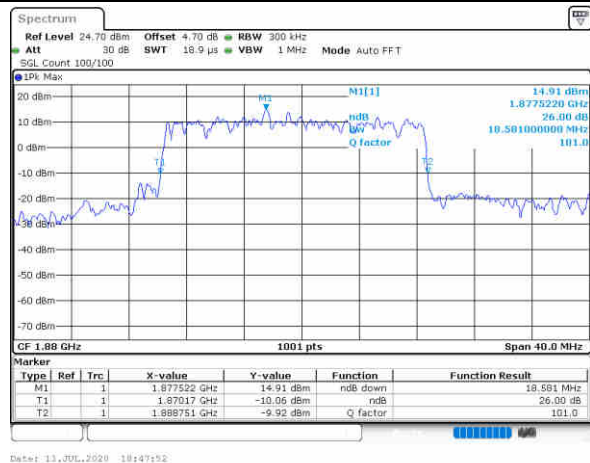
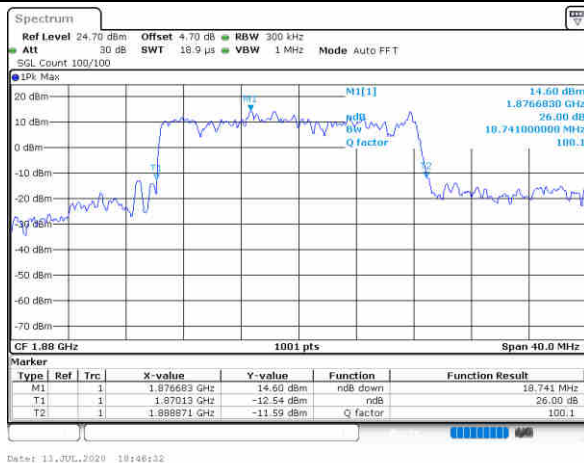
Lowest Channel

Lowest Channel



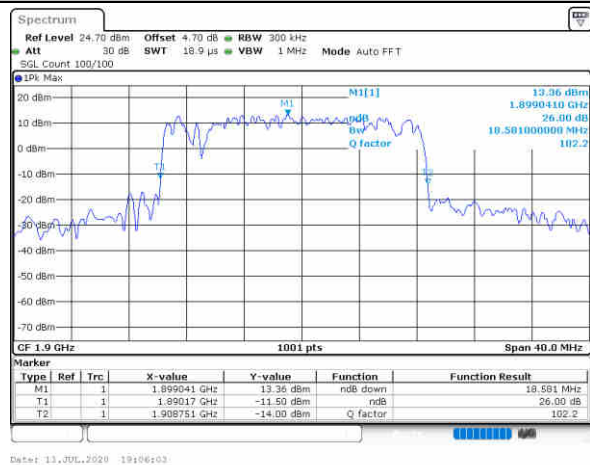
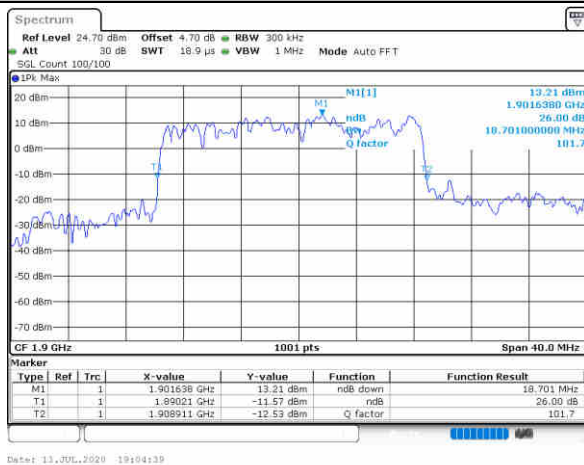
Middle Channel

Middle Channel



Highest Channel

Highest Channel



**Occupied Bandwidth**

Mode	FR1 n2+5A : OB BW(MHz) / DFT-S OFDM							
BW	5MHz	5MHz	10MHz	10MHz	20MHz	20MHz		
Mod.	PI/2 BPSK	QPSK	PI/2 BPSK	QPSK	PI/2 BPSK	QPSK		
Lowest CH	4.46	4.45	8.85	8.89	17.78	17.94		
Middle CH	4.42	4.46	8.83	8.89	18.02	17.9		
Highest CH	4.43	4.44	8.91	8.93	17.78	17.7		



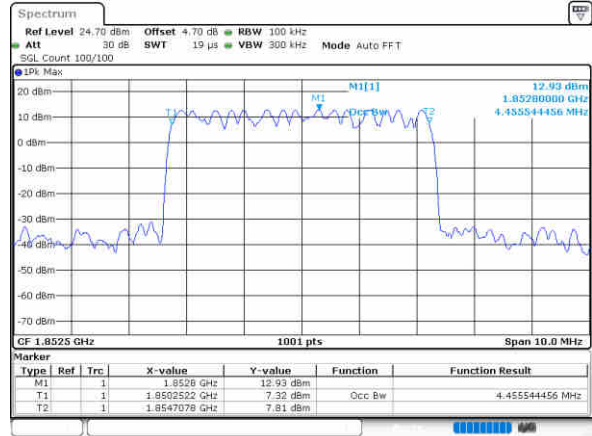
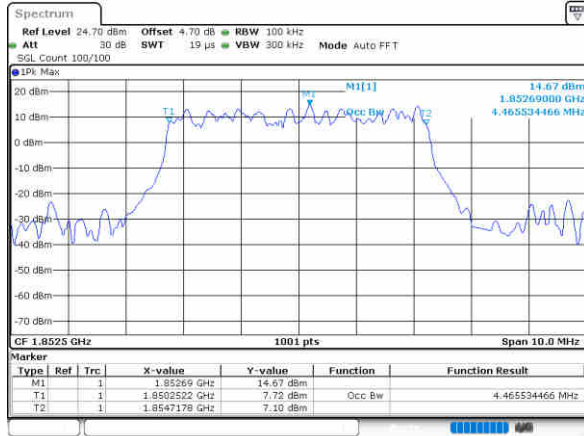
FR1 n2+5A / 5MHz / DFT-S OFDM

PI/2 BPSK

QPSK

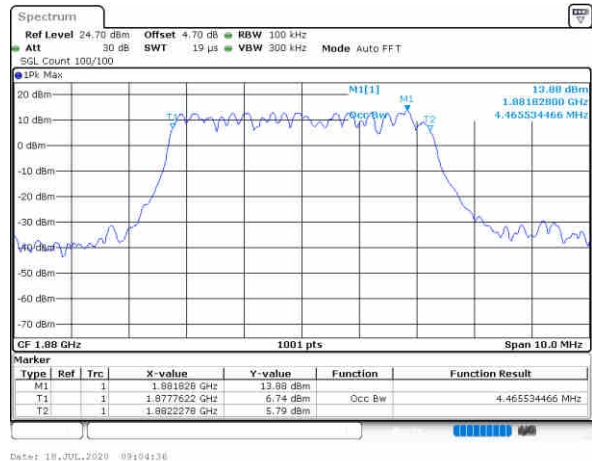
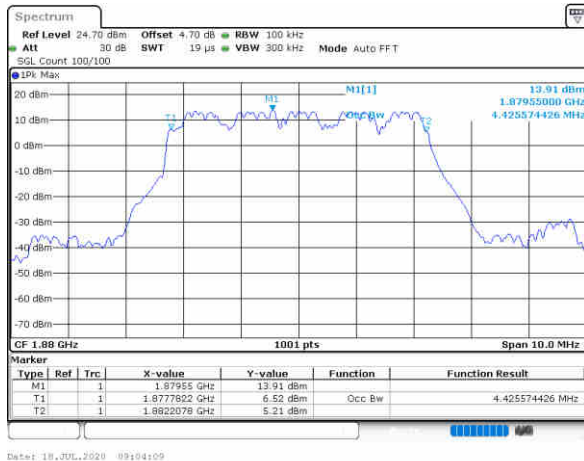
Lowest Channel

Lowest Channel



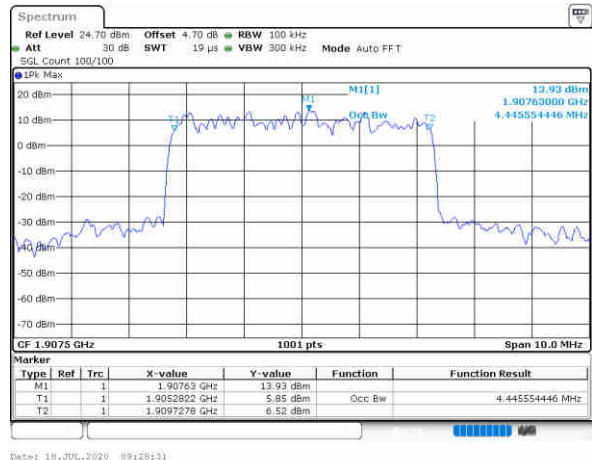
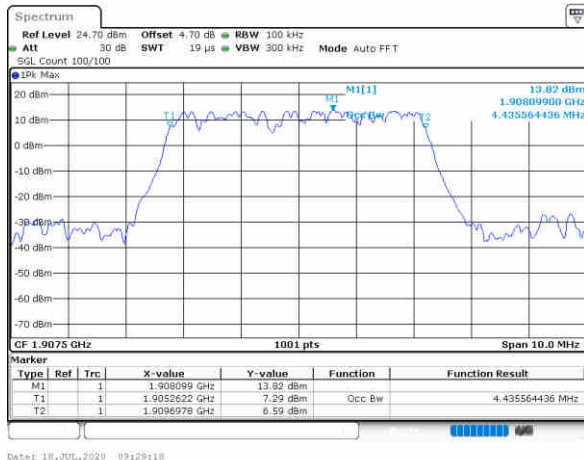
Middle Channel

Middle Channel



Highest Channel

Highest Channel

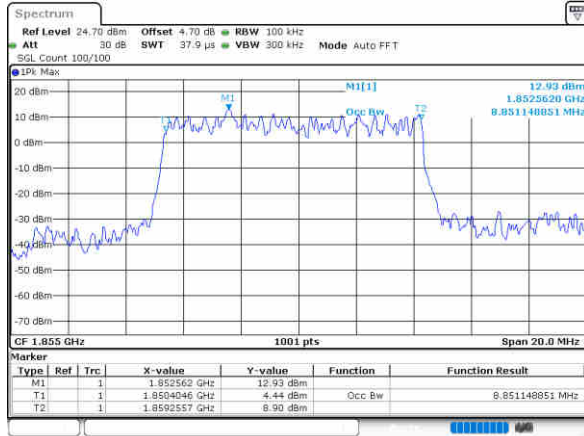




FR1 n2+5A / 10MHz / DFT-S OFDM

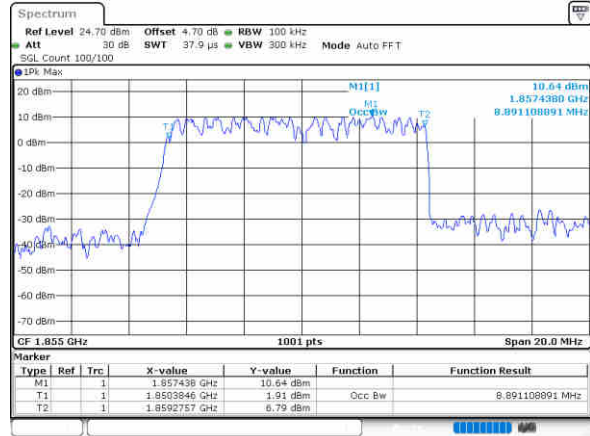
PI/2 BPSK

Lowest Channel

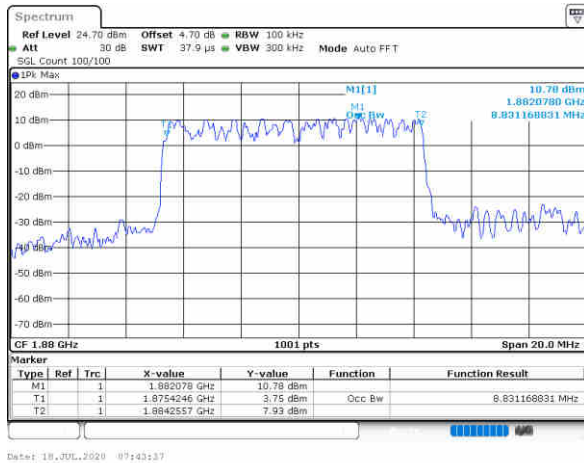


QPSK

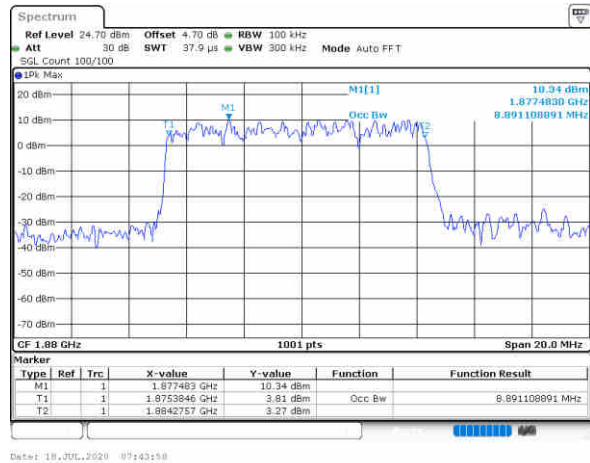
Lowest Channel



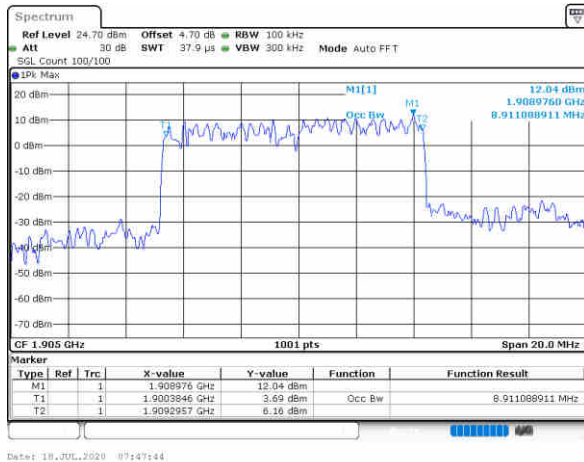
Middle Channel



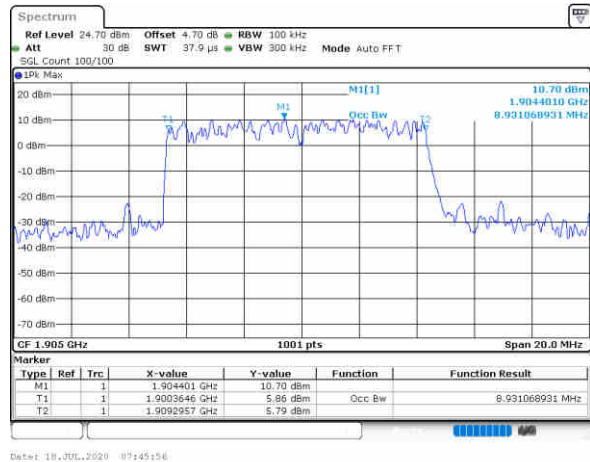
Middle Channel



Highest Channel



Highest Channel





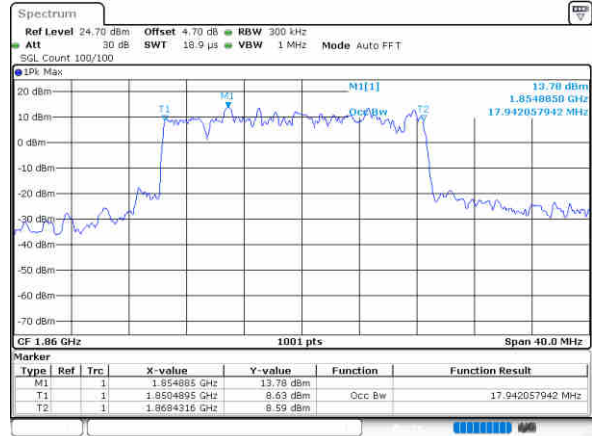
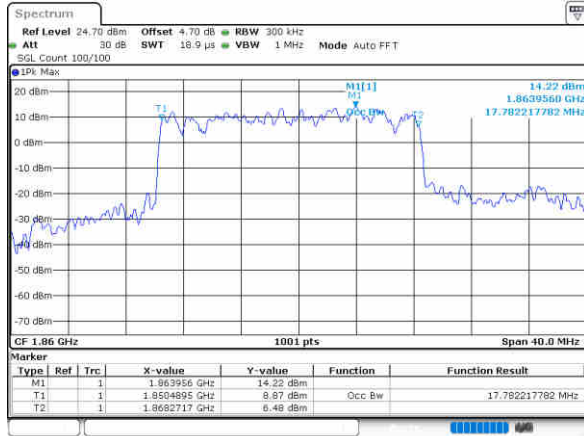
FR1 n2+5A / 20MHz / DFT-S OFDM

PI/2 BPSK

QPSK

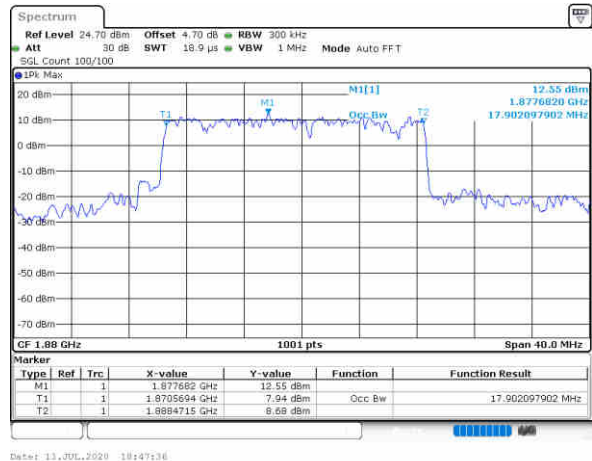
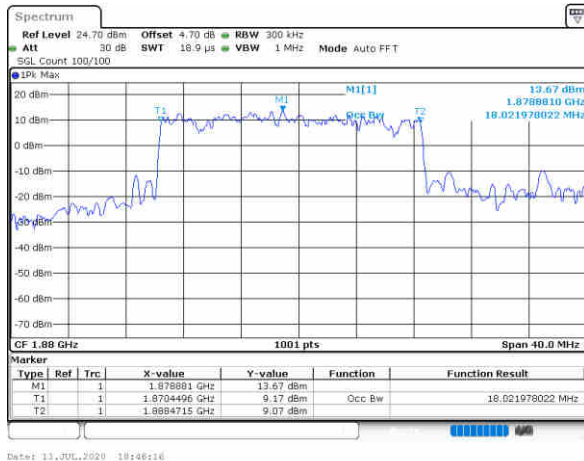
Lowest Channel

Lowest Channel



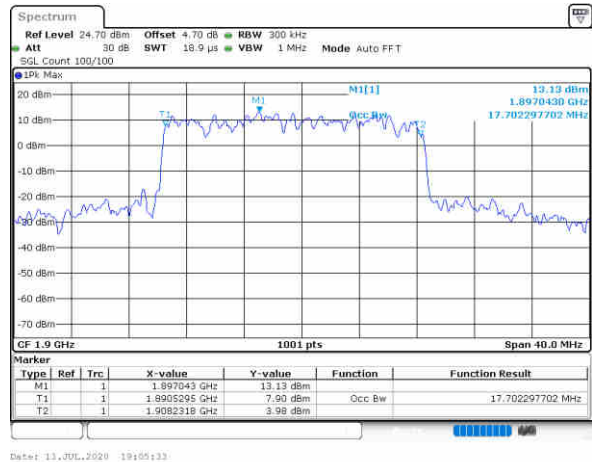
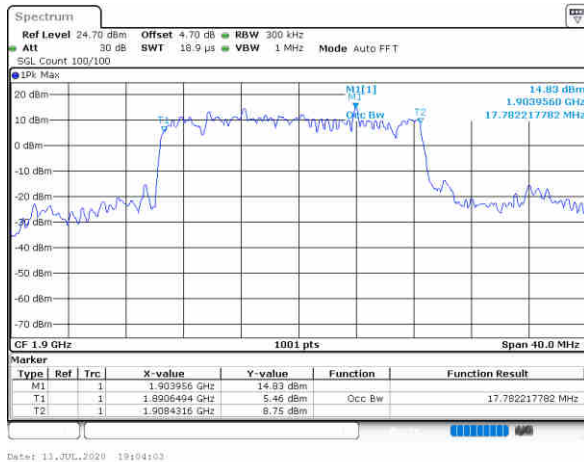
Middle Channel

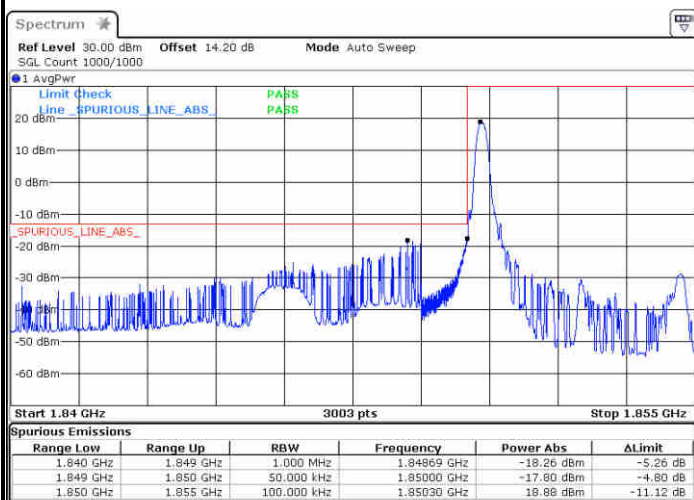
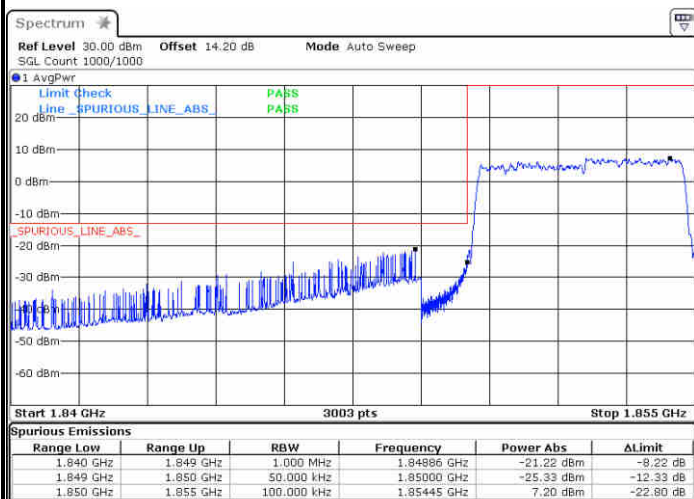
Middle Channel



Highest Channel

Highest Channel



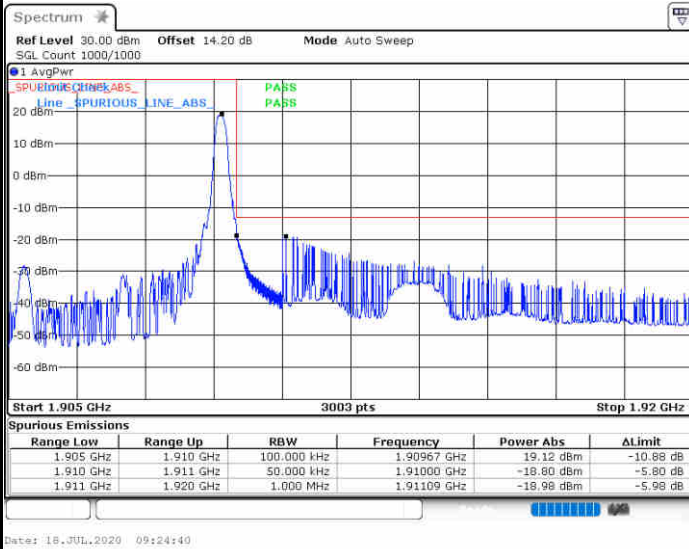
**Conducted Band Edge****FR1 n2+5A / 5MHz / DFT-S OFDM BPSK****Lowest Band Edge / 1 RB****Channel Power < -13dBm Pass****Lowest Band Edge / Full RB****Channel Power < -13dBm Pass**



FR1 n2+5A / 5MHz / DFT-S OFDM BPSK

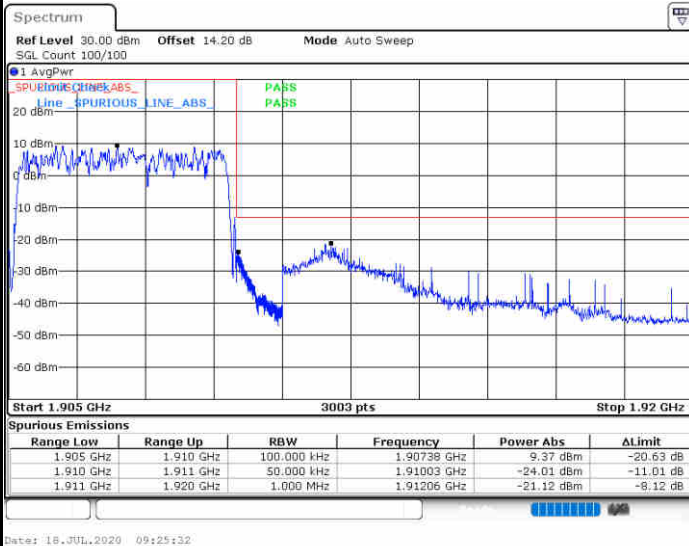
Highest Band Edge / 1 RB

Channel Power < -13dBm Pass



Highest Band Edge / Full RB

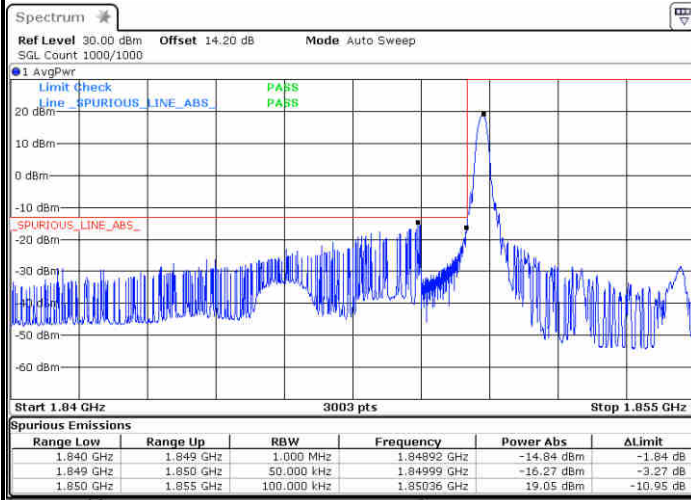
Channel Power < -13dBm Pass





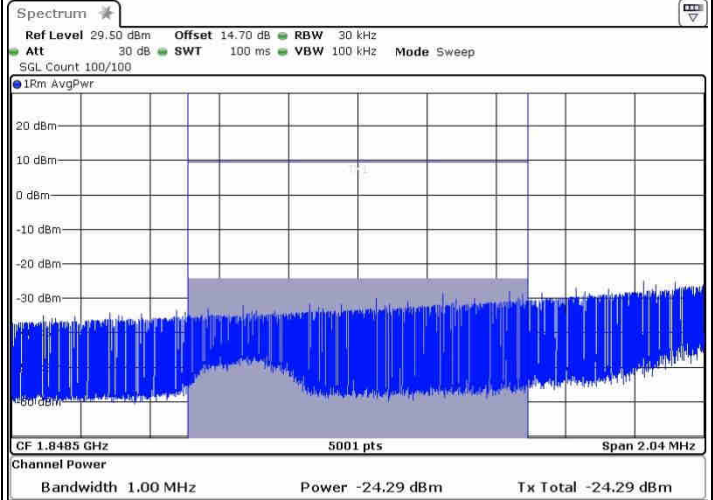
FR1 n2+5A / 5MHz / DFT-S OFDM QPSK

Lowest Band Edge / 1 RB



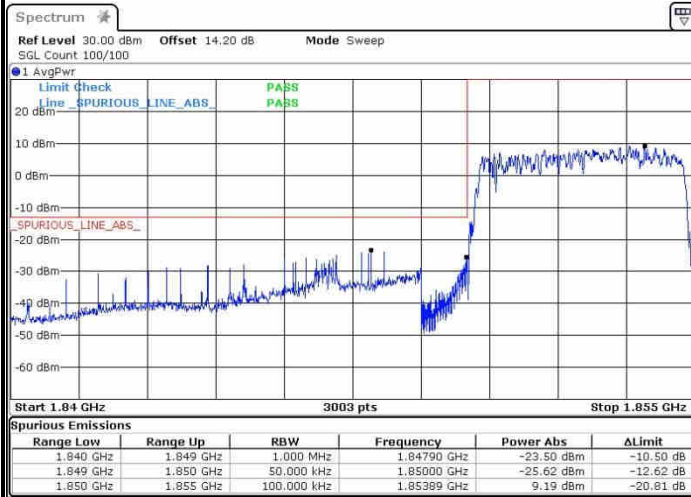
Date: 18.JUL.2020 09:15:24

Channel Power < -13dBm Pass



Date: 3.AUG.2020 16:30:40

Lowest Band Edge / Full RB



Date: 18.JUL.2020 08:59:50

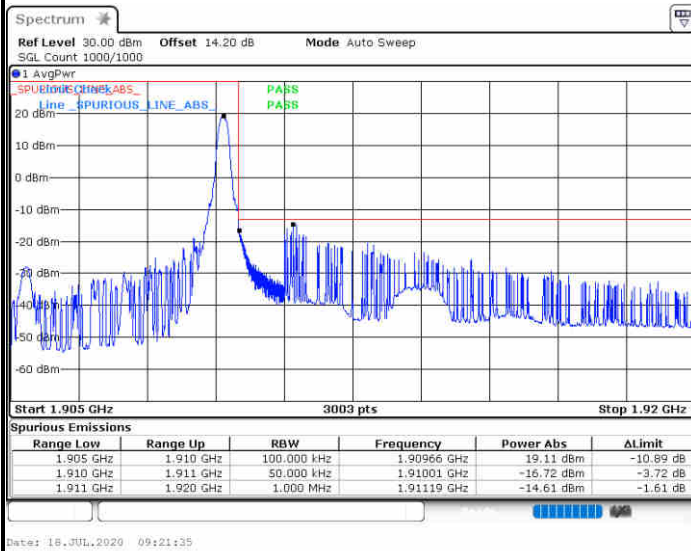
Channel Power < -13dBm Pass

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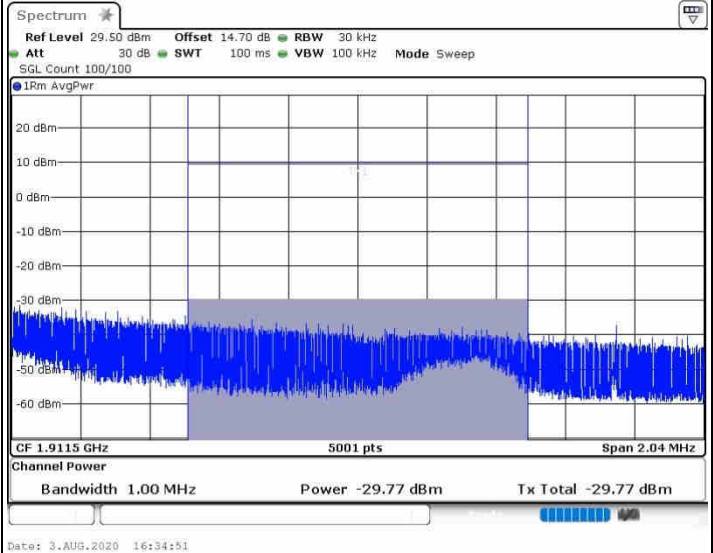


FR1 n2+5A / 5MHz / DFT-S OFDM QPSK

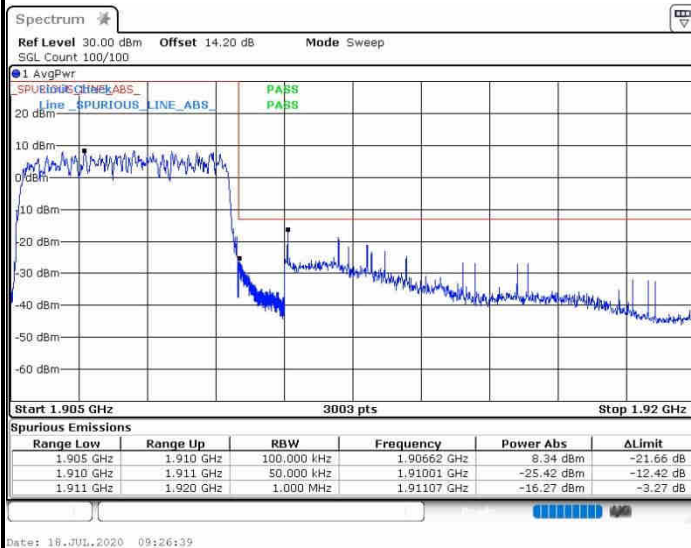
Highest Band Edge / 1 RB



Channel Power < -13dBm Pass



Highest Band Edge / Full RB



Channel Power < -13dBm Pass

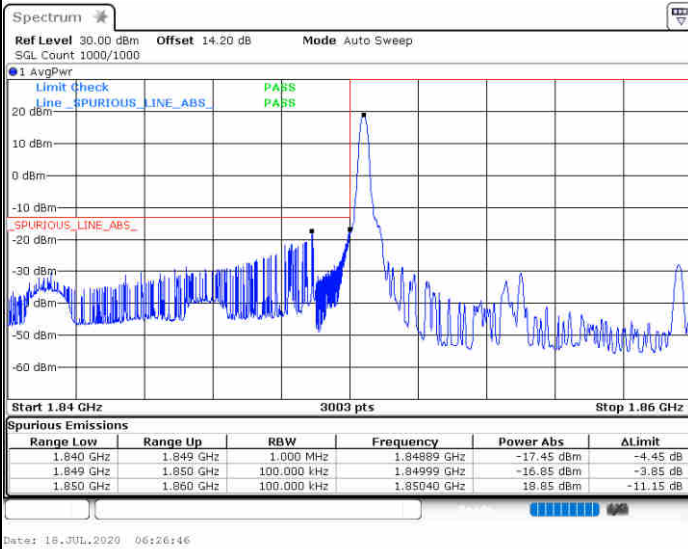
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FR1 n2+5A / 10MHz / DFT-S OFDM BPSK

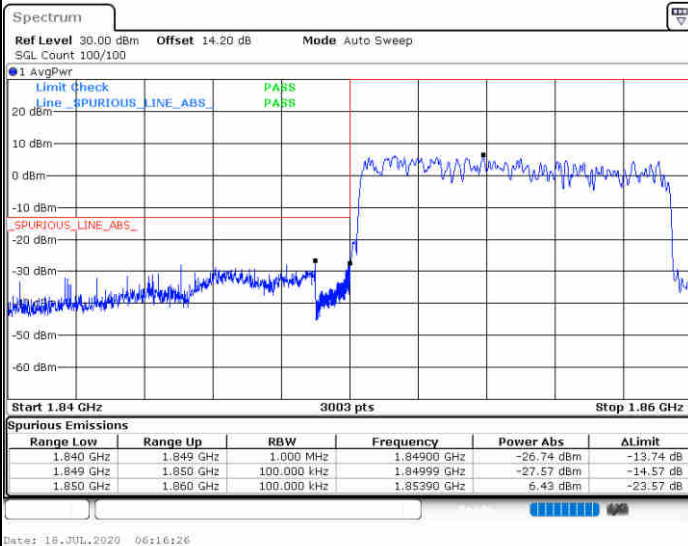
Lowest Band Edge / 1 RB

Channel Power < -13dBm Pass



Lowest Band Edge / Full RB

Channel Power < -13dBm Pass

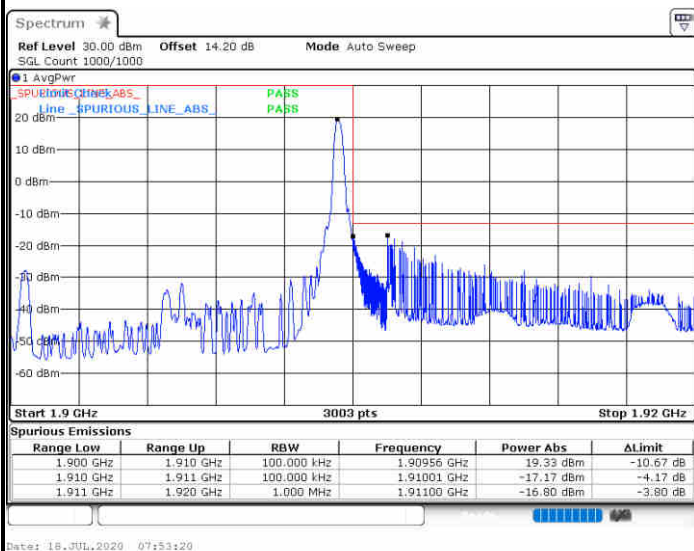




FR1 n2+5A / 10MHz / DFT-S OFDM BPSK

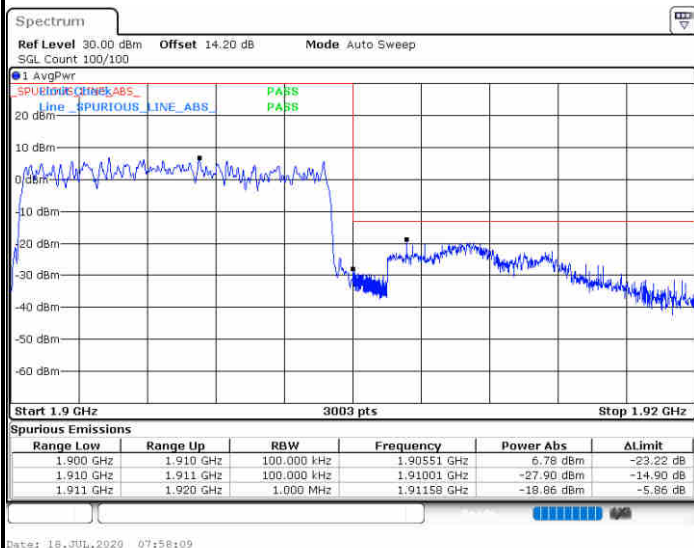
Highest Band Edge / 1 RB

Channel Power < -13dBm Pass



Highest Band Edge / Full RB

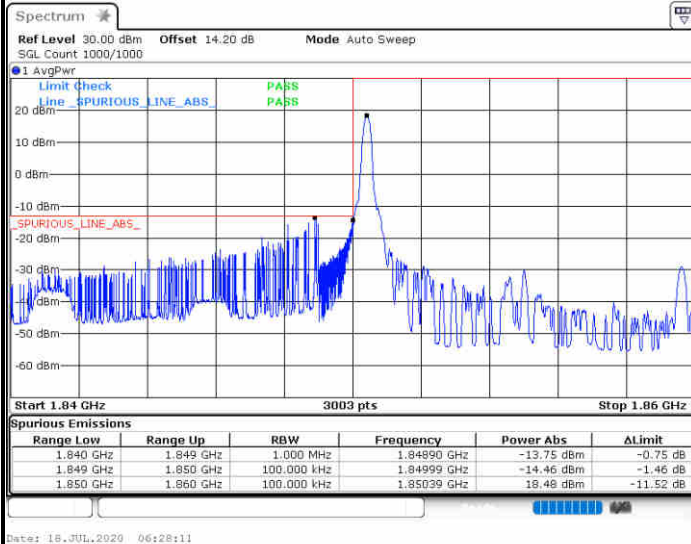
Channel Power < -13dBm Pass



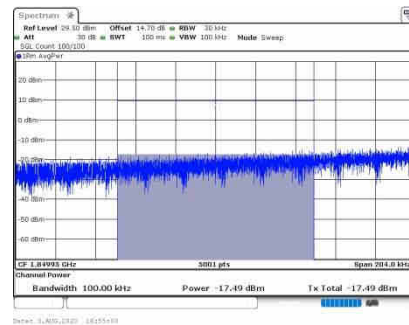
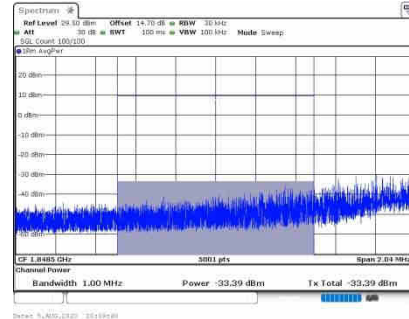


FR1 n2+5A / 10MHz / DFT-S OFDM QPSK

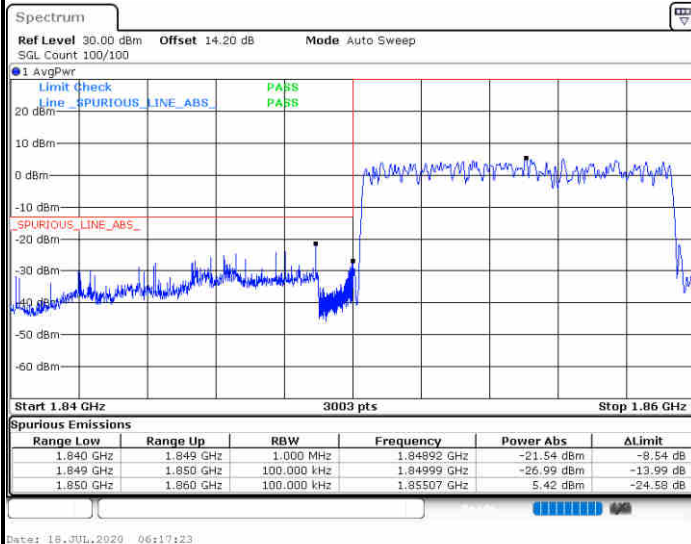
Lowest Band Edge / 1 RB



Channel Power < -13dBm Pass



Lowest Band Edge / Full RB



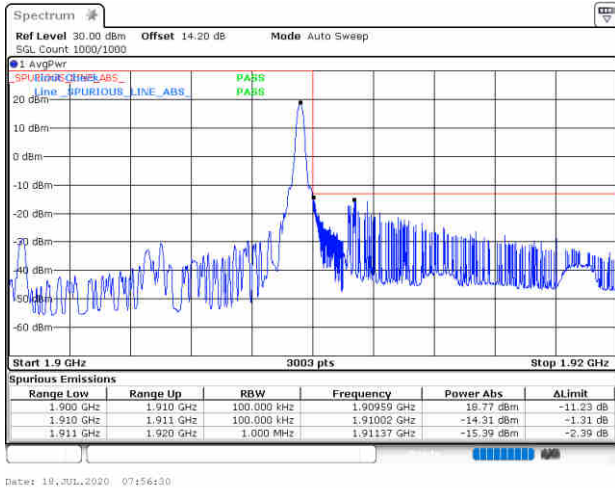
Channel Power < -13dBm Pass

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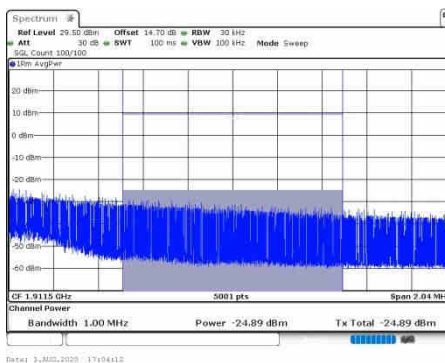
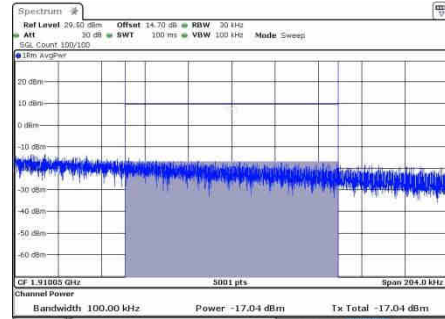
FR1 n2+5A / 10MHz / DFT-S OFDM QPSK

Highest Band Edge / 1 RB



Date: 18 JUL 2020 07:56:30

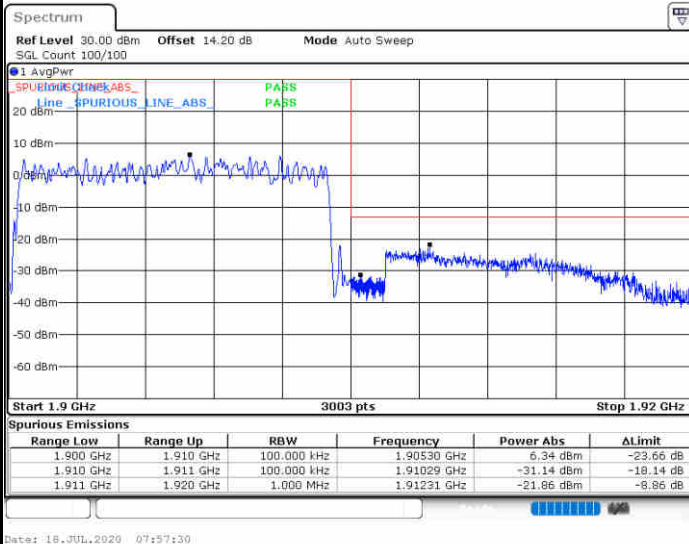
Channel Power < -13dBm Pass



Date: 18 JUL 2020 17:04:12

Highest Band Edge / Full RB

Channel Power < -13dBm Pass



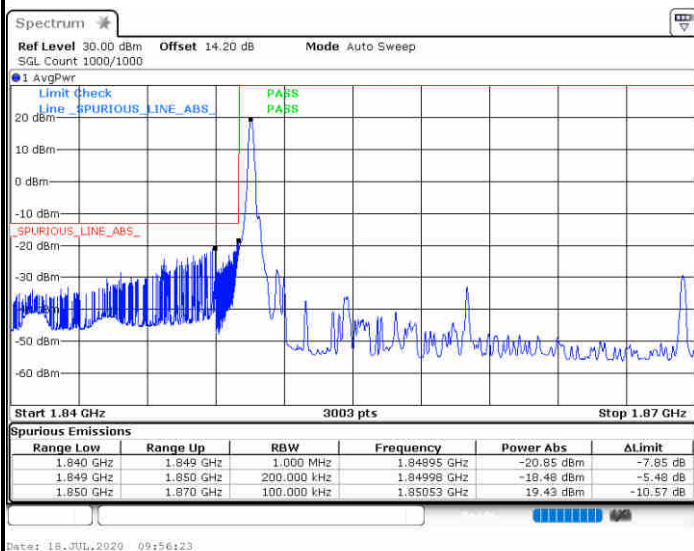
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FR1 n2+5A / 20MHz / DFT-S OFDM BPSK

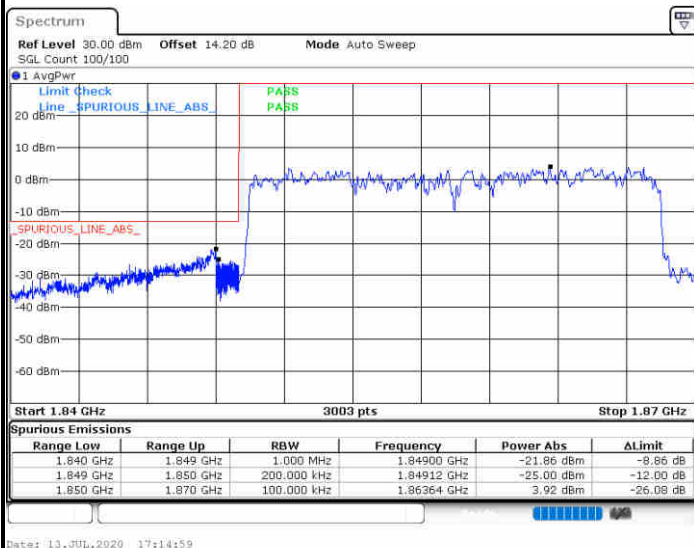
Lowest Band Edge / 1 RB

Channel Power < -13dBm Pass



Lowest Band Edge / Full RB

Channel Power < -13dBm Pass

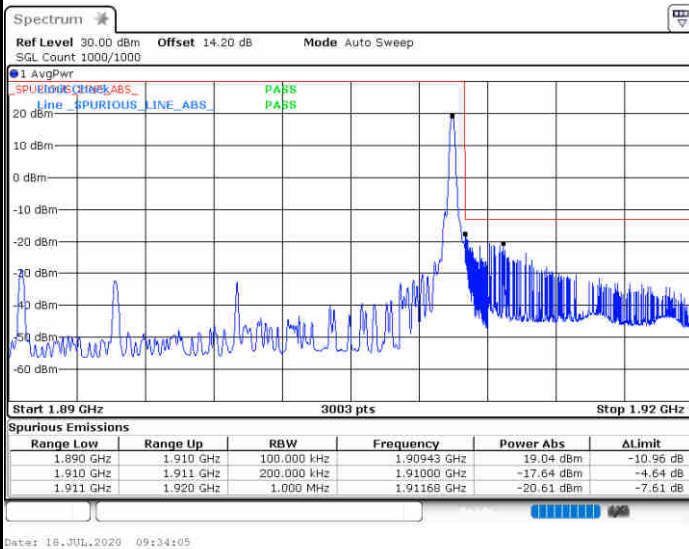




FR1 n2+5A / 20MHz / DFT-S OFDM BPSK

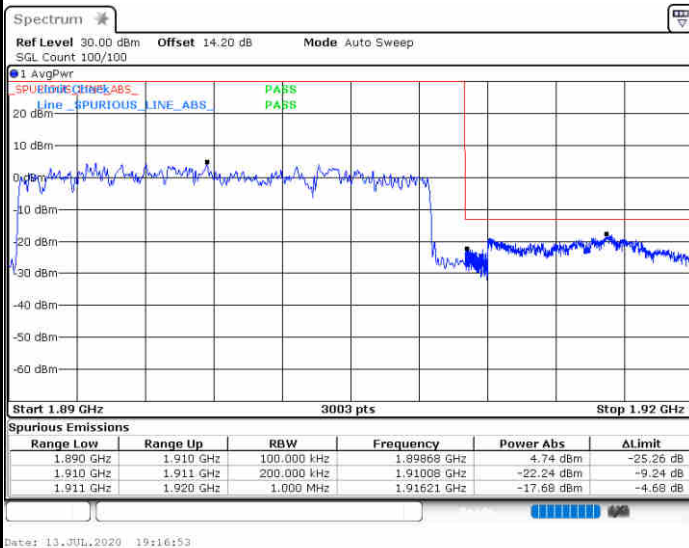
Highest Band Edge / 1 RB

Channel Power < -13dBm Pass



Highest Band Edge / Full RB

Channel Power < -13dBm Pass

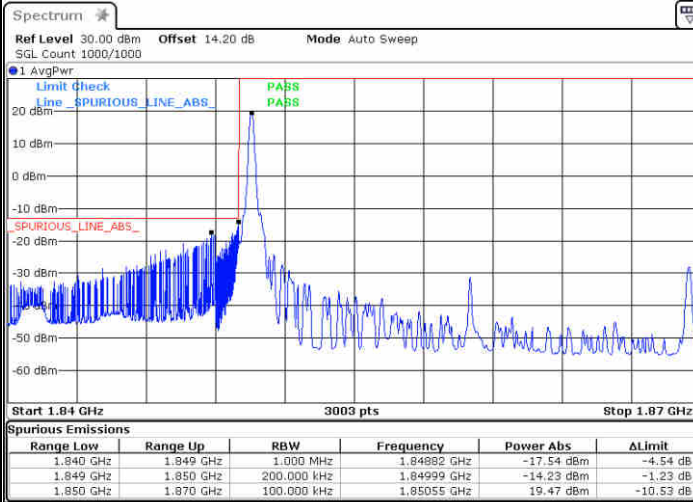




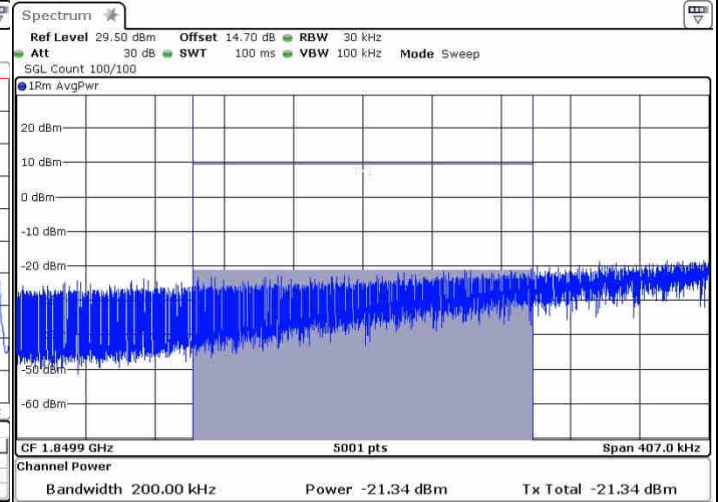
FR1 n2+5A / 20MHz / DFT-S OFDM QPSK

Lowest Band Edge / 1 RB

Channel Power < -13dBm Pass



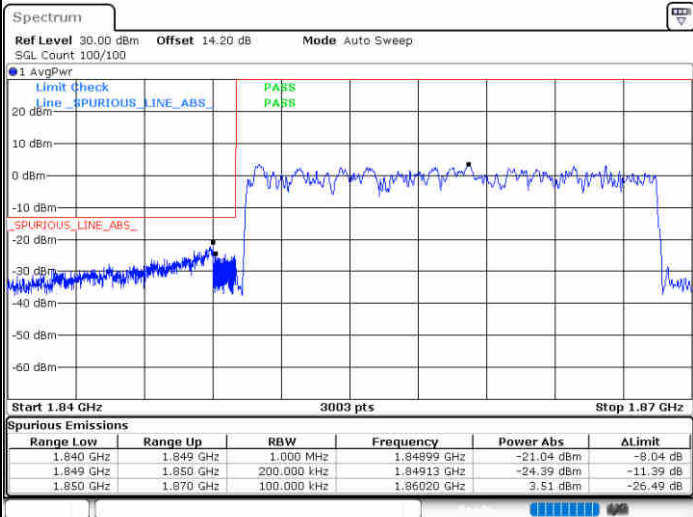
Date: 13.JUL.2020 17:16:42



Date: 3.AUG.2020 17:08:30

Lowest Band Edge / Full RB

Channel Power < -13dBm Pass

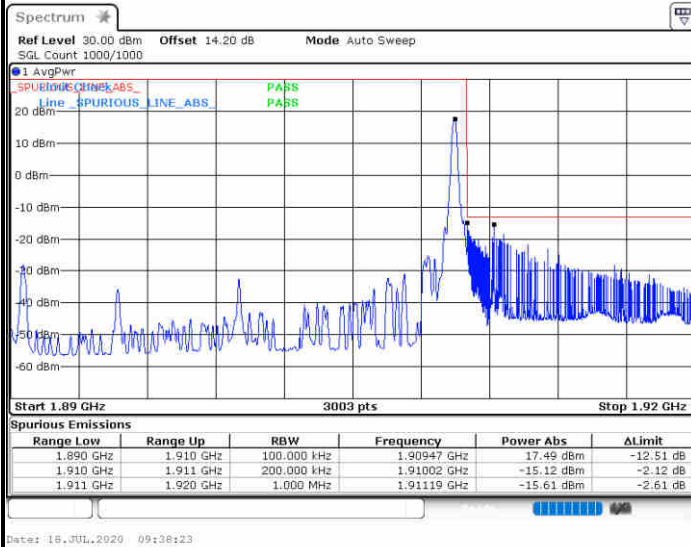


Date: 13.JUL.2020 17:15:30

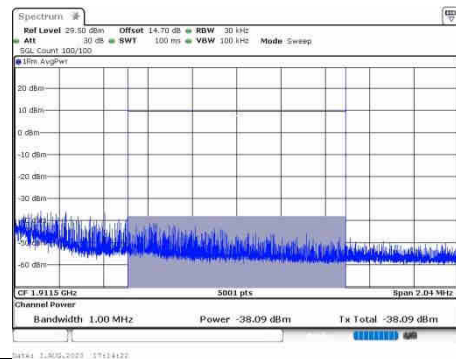
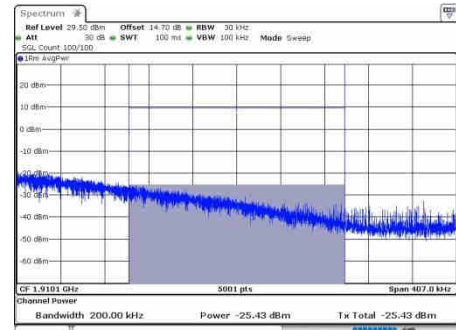


FR1 n2+5A / 20MHz / DFT-S OFDM QPSK

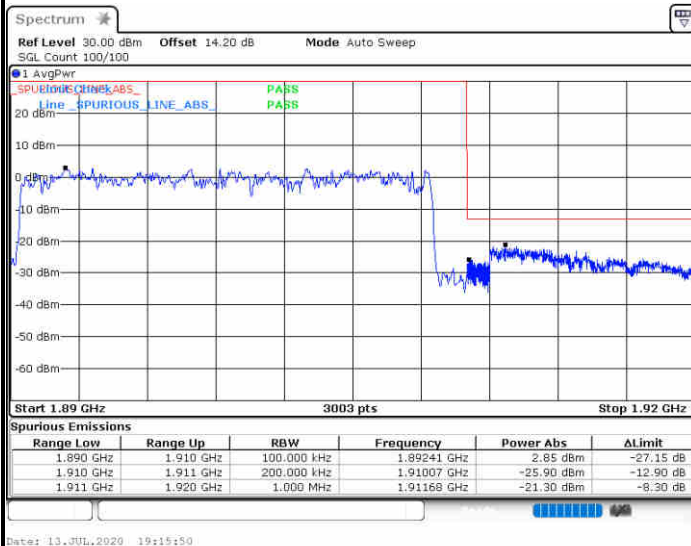
Highest Band Edge / 1 RB



Channel Power < -13dBm Pass



Highest Band Edge / Full RB



Channel Power < -13dBm Pass

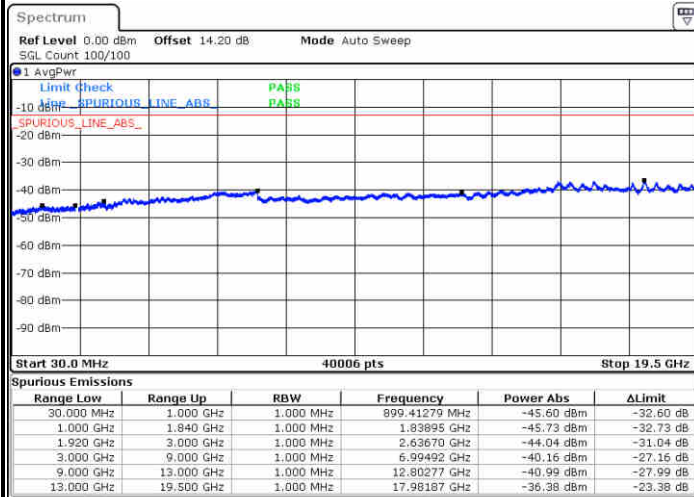
/



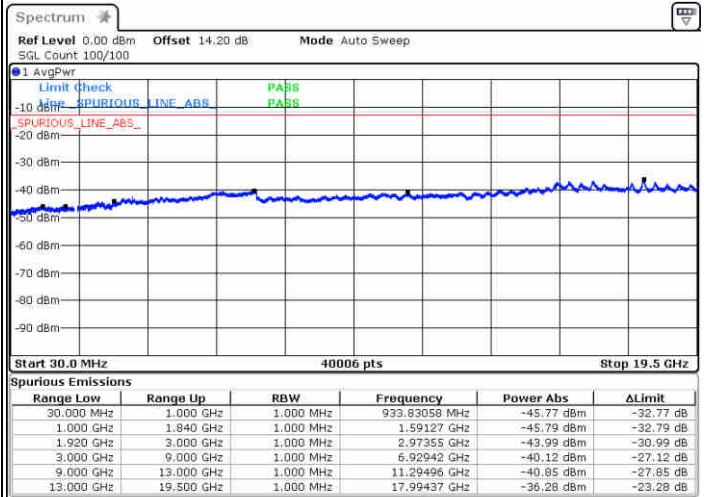
Conducted Spurious Emission

FR1 n2+5A / 5MHz / DFT-S OFDM / BPSK

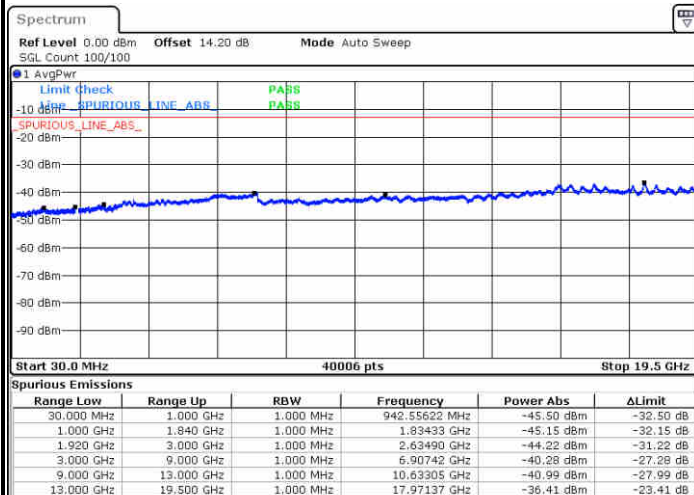
Lowest Channel / 1RB



Middle Channel / 1RB



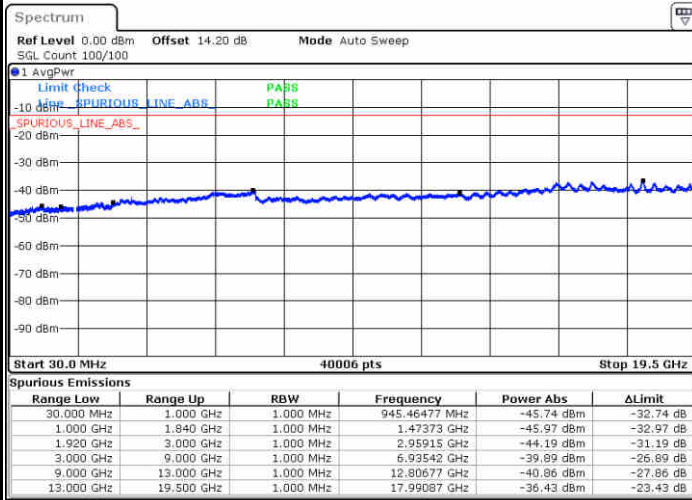
Highest Channel / 1RB





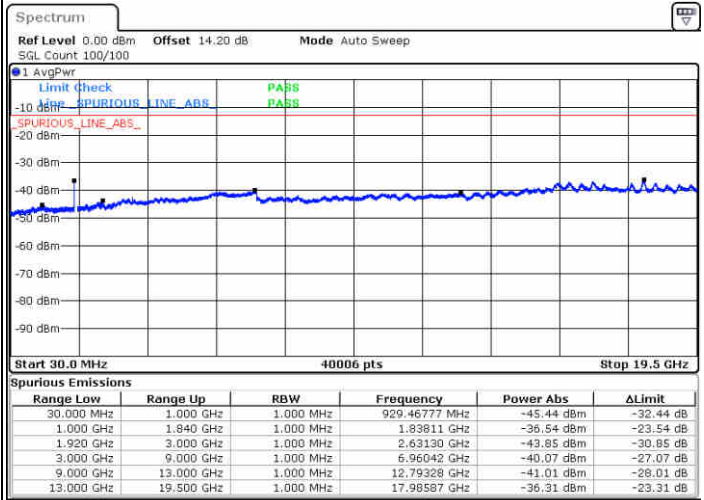
FR1 n2+5A / 5MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB



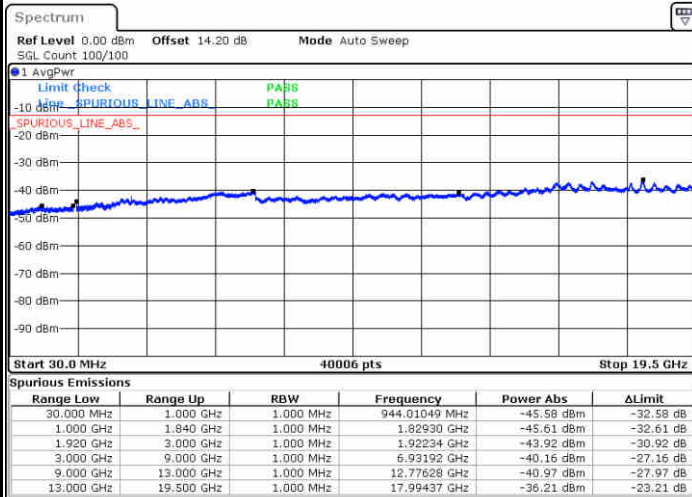
Date: 18.JUL.2020 08:10:17

Middle Channel / 1RB



Date: 18.JUL.2020 09:06:25

Highest Channel / 1RB

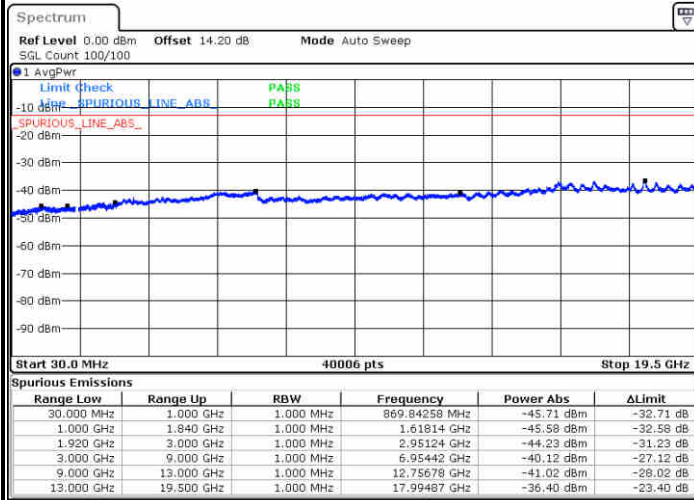


Date: 18.JUL.2020 09:15:27



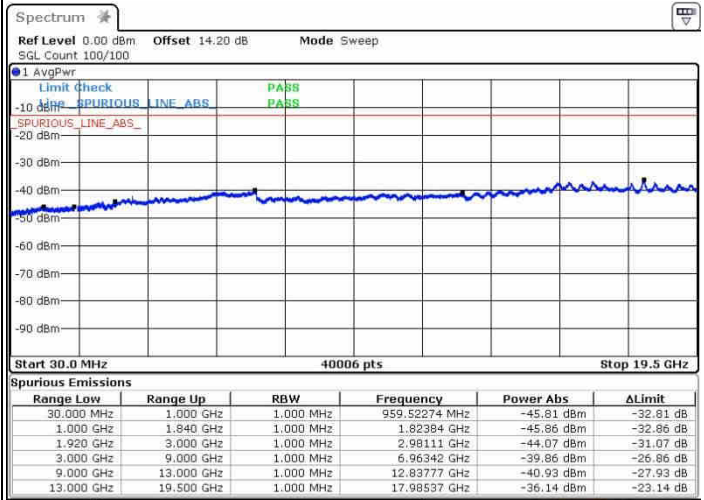
FR1 n2+5A / 10MHz / DFT-S OFDM / BPSK

Lowest Channel / 1RB



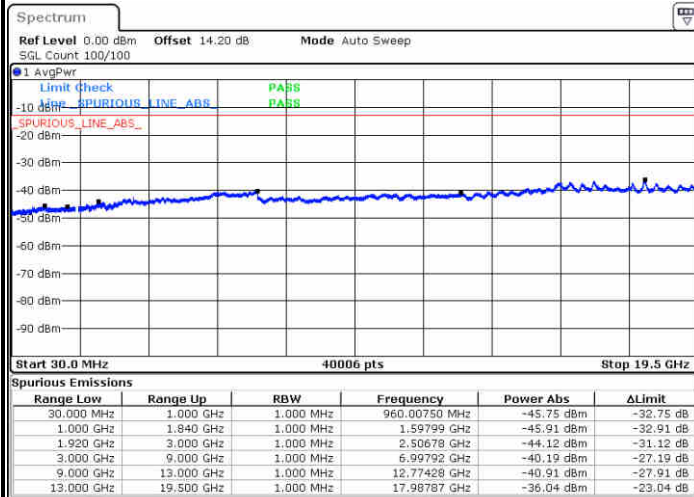
Date: 18.JUL.2020 06:25:06

Middle Channel / 1RB



Date: 18.JUL.2020 07:30:15

Highest Channel / 1RB

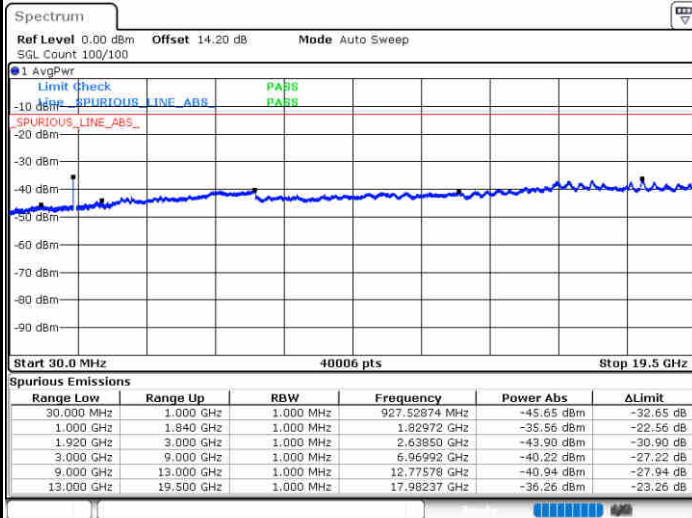


Date: 18.JUL.2020 08:01:14

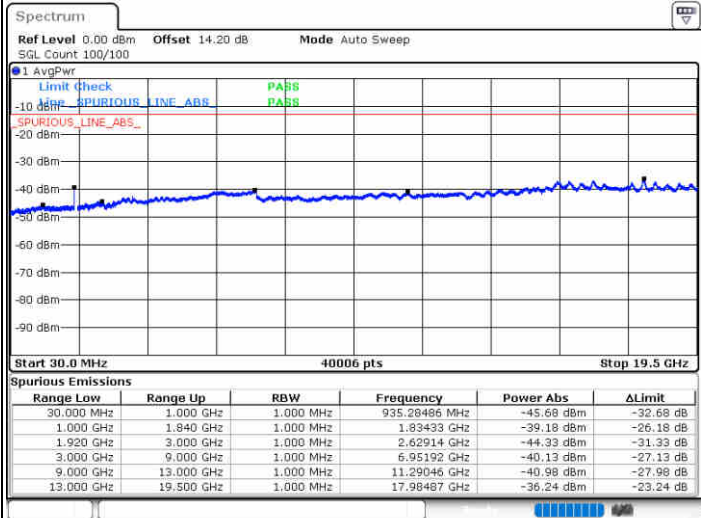


FR1 n2+5A / 10MHz / DFT-S OFDM / QPSK

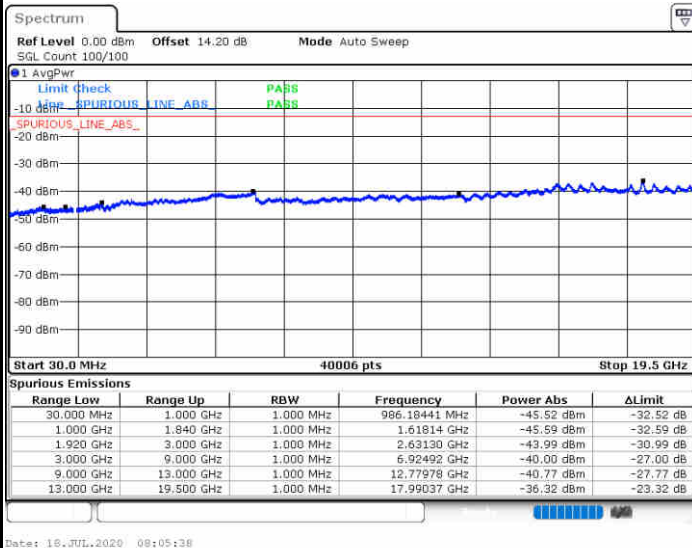
Lowest Channel / 1RB



Middle Channel / 1RB



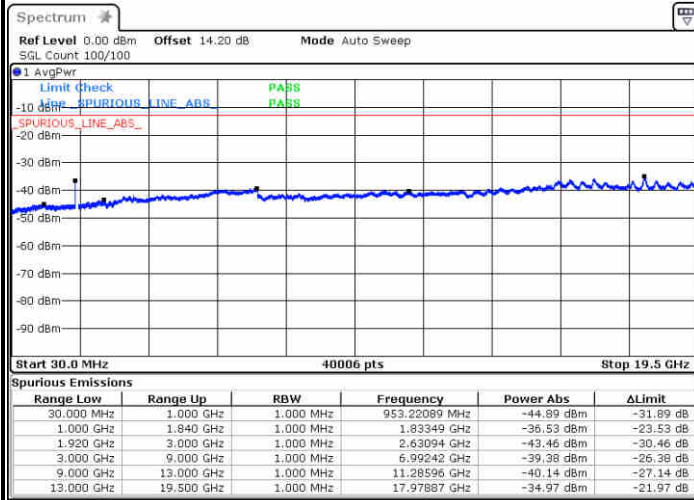
Highest Channel / 1RB





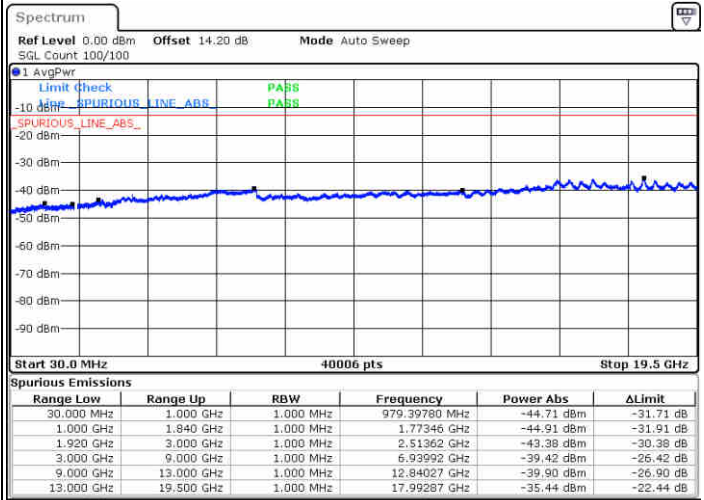
FR1 n2+5A / 20MHz / DFT-S OFDM / BPSK

Lowest Channel / 1RB



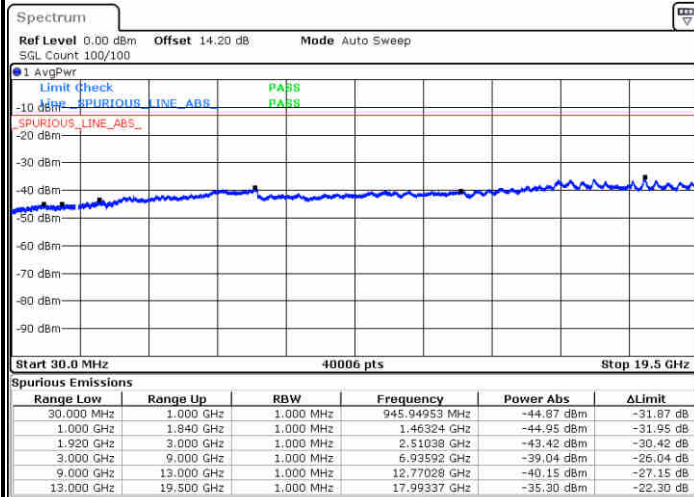
Date: 13.JUL.2020 17:27:01

Middle Channel / 1RB



Date: 13.JUL.2020 18:44:43

Highest Channel / 1RB

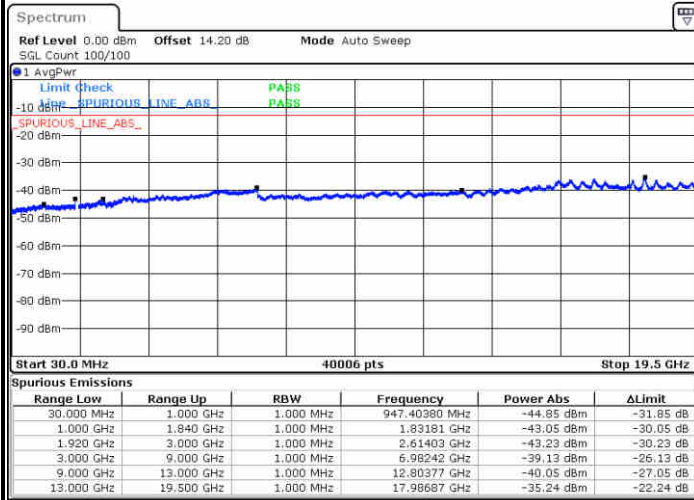


Date: 13.JUL.2020 19:19:12



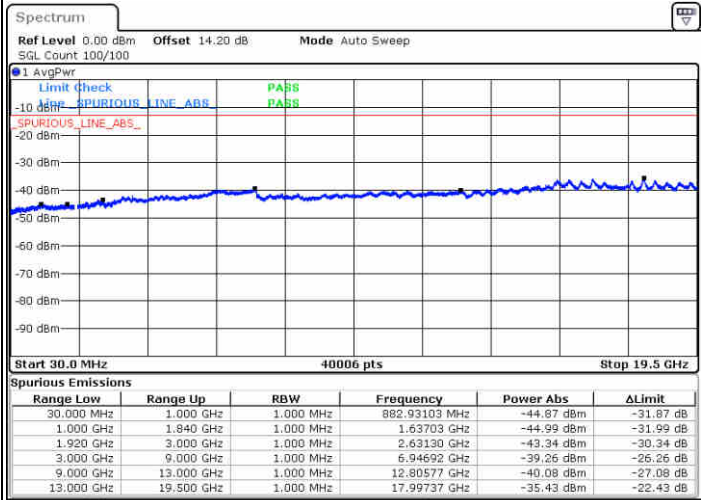
FR1 n2+5A / 20MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB



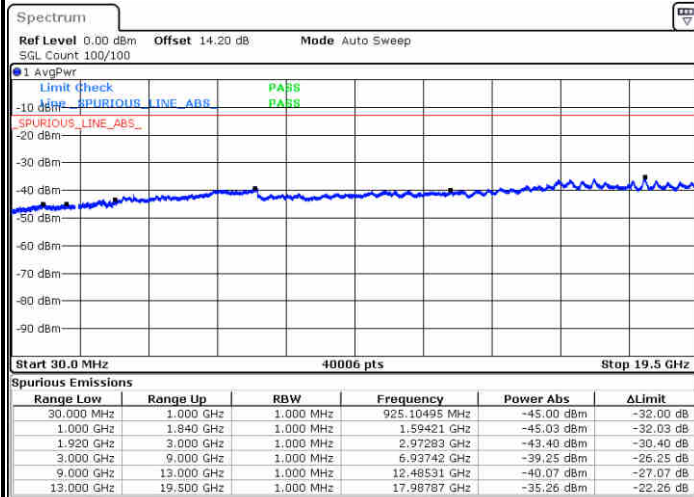
Date: 13.JUL.2020 17:37:10

Middle Channel / 1RB



Date: 13.JUL.2020 18:52:15

Highest Channel / 1RB



Date: 13.JUL.2020 19:22:11

**Frequency Stability**

Test Conditions		NR n2+5A (BPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 20MHz	Within Band
		Deviation (ppm)	Result
50	Normal Voltage	0.0013	PASS
40	Normal Voltage	0.0012	
30	Normal Voltage	0.0010	
20(Ref.)	Normal Voltage	0.0015	
10	Normal Voltage	0.0011	
0	Normal Voltage	0.0003	
-10	Normal Voltage	0.0009	
-20	Normal Voltage	0.0011	
-30	Normal Voltage	0.0007	
20	Maximum Voltage	0.0019	
20	Normal Voltage	0.0013	
20	Battery End Point	0.0015	



SA

Peak-to-Average Ratio

Mode	FR1 n2 / 20MHz / DFT-S OFDM				
Mod.	PI/2 BPSK	PI/2 BPSK	QPSK	QPSK	Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	5.3	5.42	5.88	7.54	PASS
Middle CH	4.58	6.12	6	5.8	
Highest CH	5.19	5.94	5.65	6.38	



FR1 n2 / 20MHz / DFT-S OFDM

PI/2 BPSK

QPSK

Lowest Channel / 1RB

Lowest Channel / 1RB



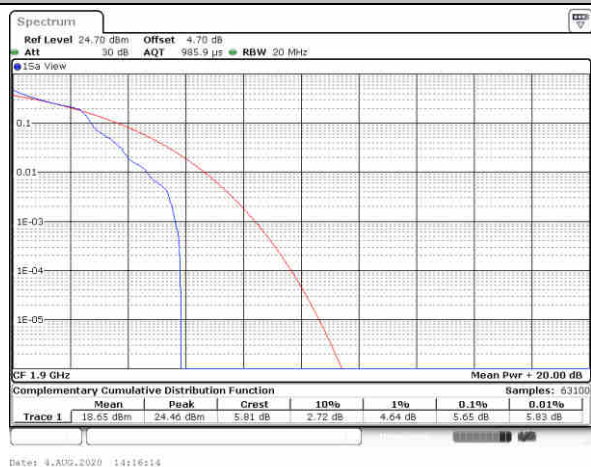
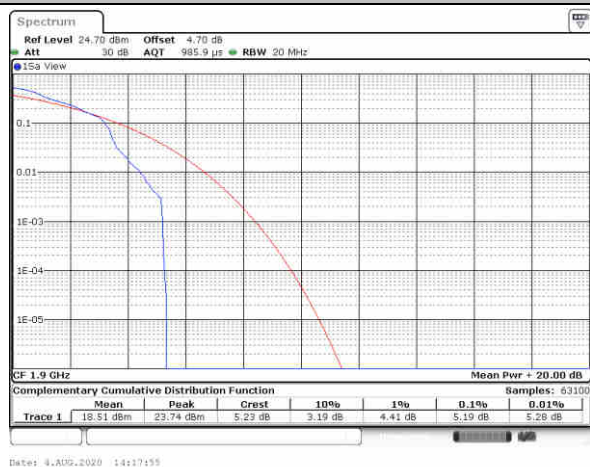
Middle Channel / 1 RB

Middle Channel / 1 RB



Highest Channel / 1 RB

Highest Channel / 1 RB





FR1 n2 / 20MHz / DFT-S OFDM

PI/2 BPSK

QPSK

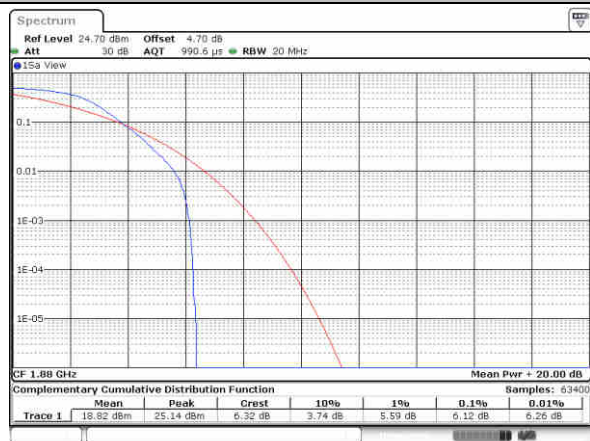
Lowest Channel / Full RB

Lowest Channel / Full RB



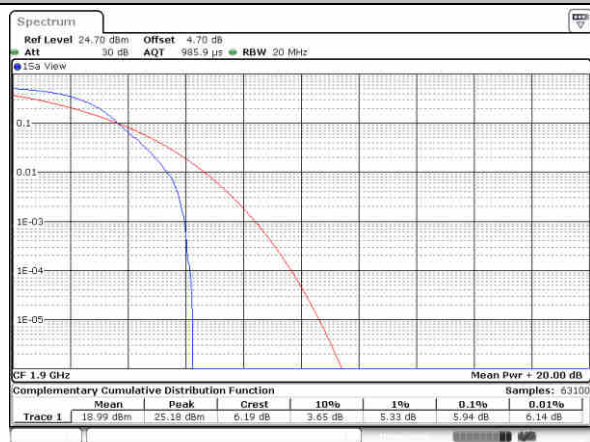
Middle Channel / Full RB

Middle Channel / Full RB



Highest Channel / Full RB

Highest Channel / Full RB



**26dB Bandwidth**

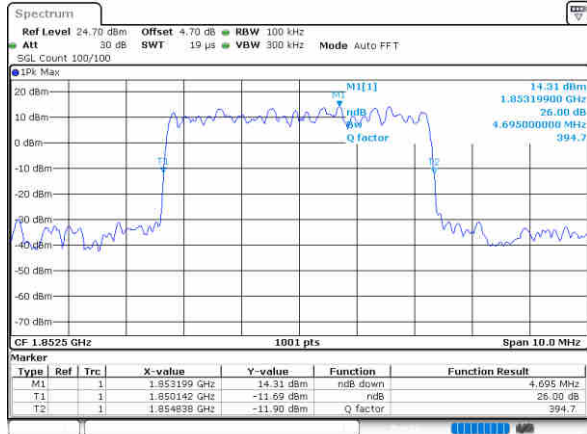
Mode	FR1 n2 : 26dB BW(MHz) / DFT-S OFDM							
BW	5MHz	5MHz	10MHz	10MHz	20MHz	20MHz		
Mod.	PI/2 BPSK	QPSK	PI/2 BPSK	QPSK	PI/2 BPSK	QPSK		
Lowest CH	4.69	4.76	9.21	9.33	18.66	18.66		
Middle CH	4.91	4.69	9.23	9.41	18.66	18.66		
Highest CH	5	4.7	9.27	9.29	18.66	18.62		



FR1 n2 / 5MHz / DFT-S OFDM

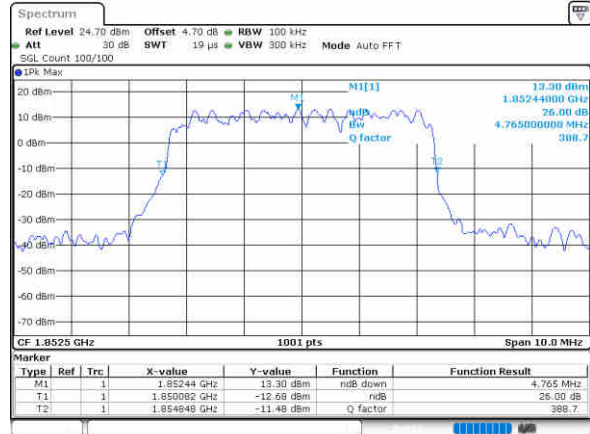
PI/2 BPSK

Lowest Channel

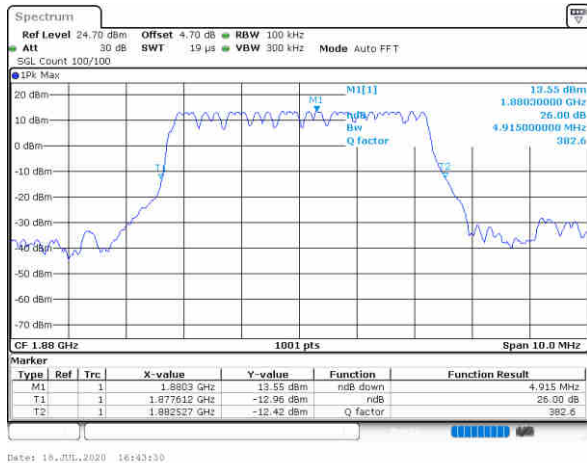


QPSK

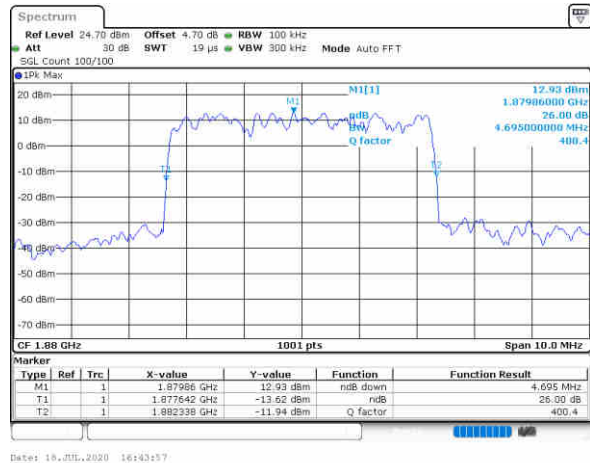
Lowest Channel



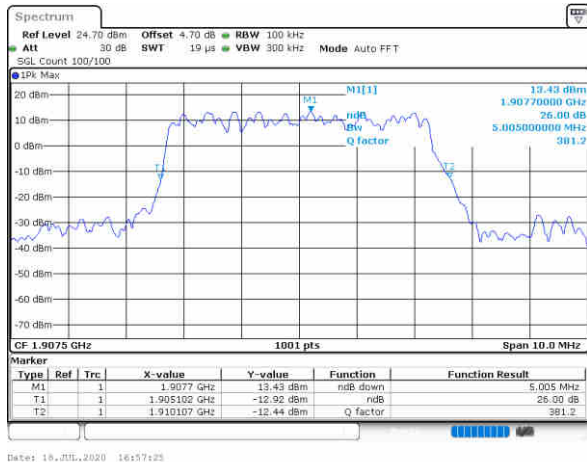
Middle Channel



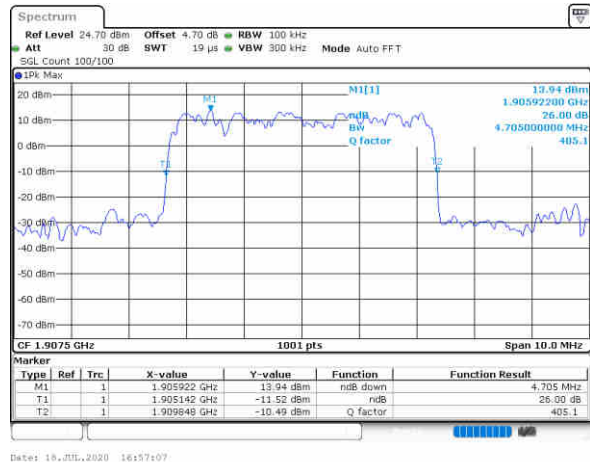
Middle Channel



Highest Channel



Highest Channel

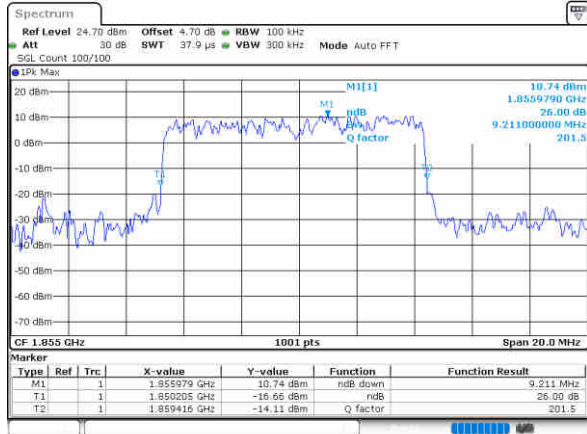




FR1 n2 / 10MHz / DFT-S OFDM

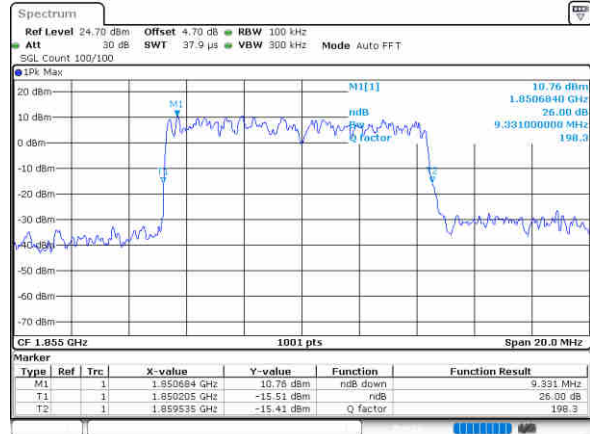
PI/2 BPSK

Lowest Channel

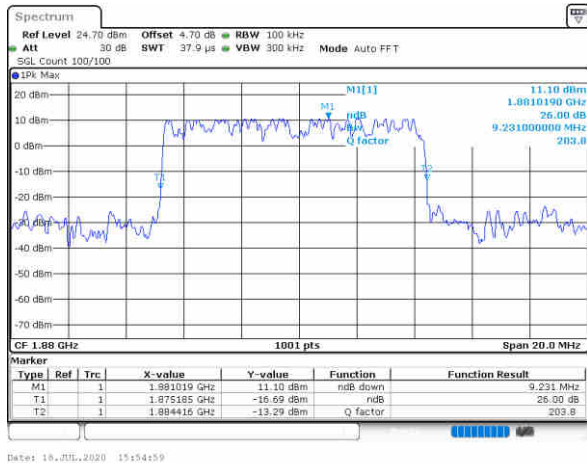


QPSK

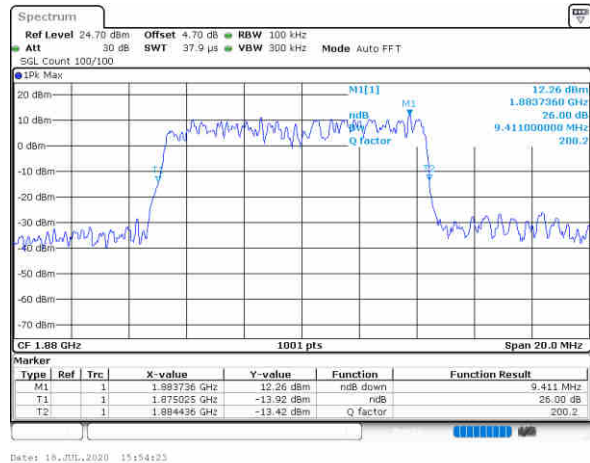
Lowest Channel



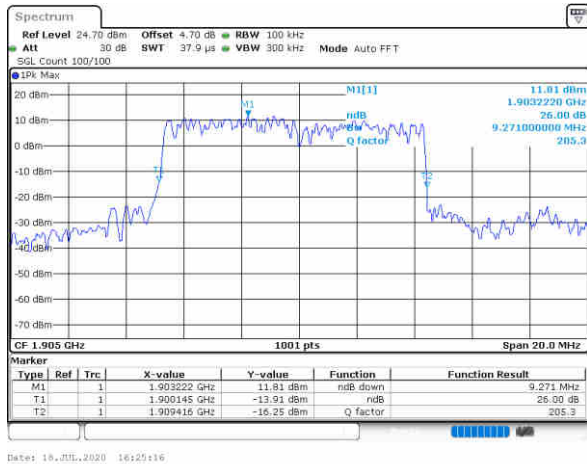
Middle Channel



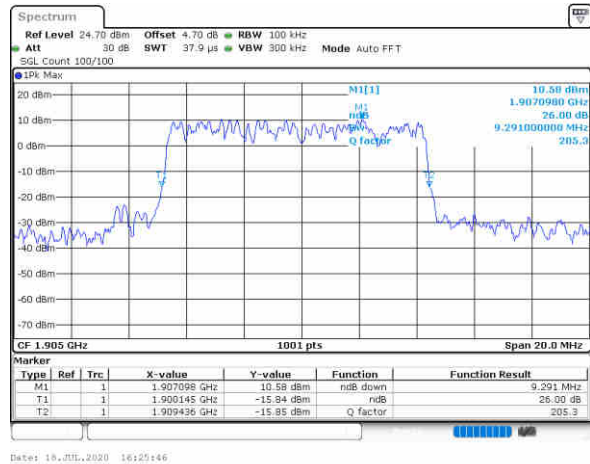
Middle Channel



Highest Channel



Highest Channel





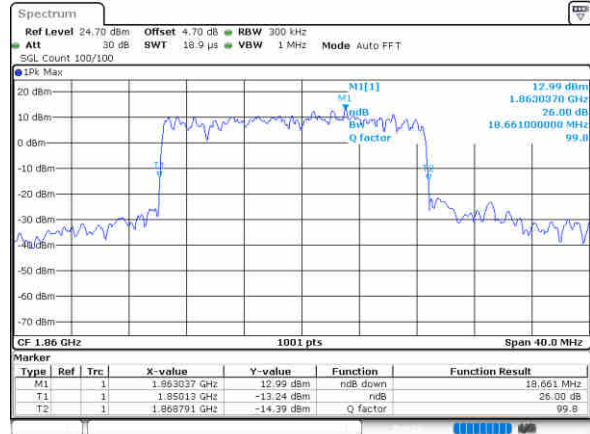
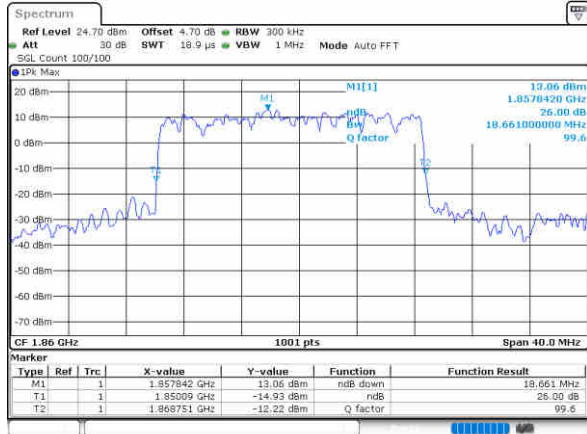
FR1 n2 / 20MHz / DFT-S OFDM

PI/2 BPSK

QPSK

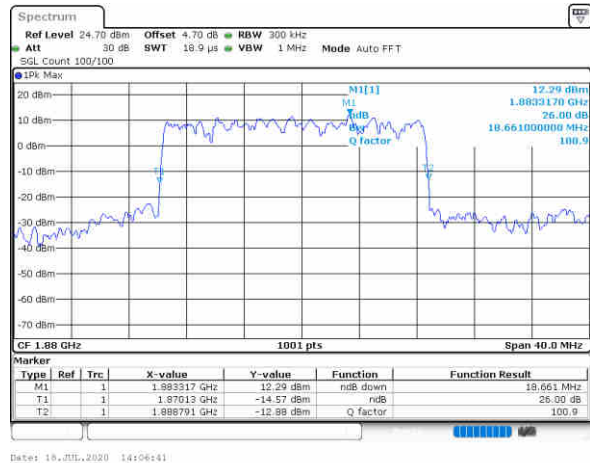
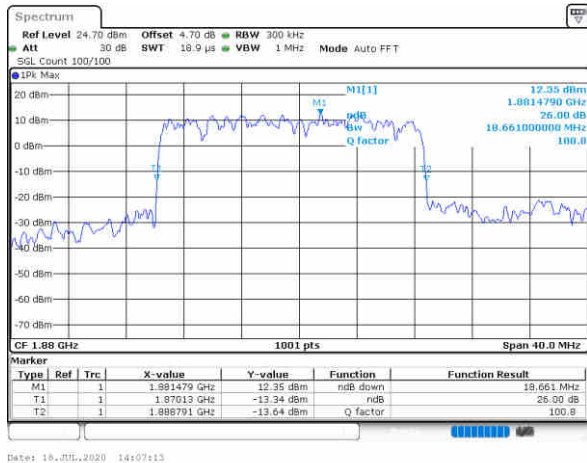
Lowest Channel

Lowest Channel



Middle Channel

Middle Channel



Highest Channel

Highest Channel

