FCC RF Test Report

APPLICANT	:	Motorola Mobility LLC
EQUIPMENT	:	Mobile Cellular Phone
BRAND NAME	:	Motorola
MODEL NAME	:	XT2305-1
FCC ID	:	IHDT56AL5
STANDARD	:	47 CFR Part 2, 27
CLASSIFICATION	:	PCS Licensed Transmitter Held to Ear (PCE)
TEST DATE(S)	:	Mar. 08, 2023 ~ Apr. 04, 2023

We, Sporton International Inc. (Kunshan), 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.

This report contains data that were produced under subcontract by Sporton International Inc. (Shenzhen).

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

Jason Jia

Approved by: Jason Jia

ilac-MRA

ACCREDITED Cert #5145.02

Sporton International Inc. (Kunshan)

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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FG322305K	Rev. 01	Initial issue of report	Apr. 21, 2023

SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.4	§2.1046	Conducted Output Power	Reporting Only	PASS	-
	§27.50(h)(2)	Equivalent Isotropic Radiated Power (5G NR n7, n41, n38)	EIRP < 2Watt		
	§27.50(d)(4)	Equivalent Isotropic Radiated Power (5G NR n66, n70)	EIRP < 1Watt		
3.5	§27.50(j)(4)	Peak-to-Average Ratio	<13 dB	PASS	-
3.6	§2.1049	Occupied Bandwidth	Reporting Only	PASS	-
3.7	§2.1051 §27.53(h)	Conducted Band Edge Measurement (5G NR n66, n70)	< 43+10log10(P[Watts])	PASS	-
	§27.53(m)(4)	Conducted Band Edge Measurement (5G NR n7, n41, n38)	§27.53(m)(4)		
3.8	§2.1051 §27.53(h)	Conducted Spurious Emission (5G NR n66, n70)	< 43+10log10(P[Watts])	PASS	-
	§2.1051 §27.53(m)(4)	Conducted Spurious Emission (5G NR n7, n41, n38)	< $55+10\log_{10}$(P[Watts])		
3.9	§2.1055 §27.54	Frequency Stability Temperature & Voltage	Within Authorized Band	PASS	-
4.4	§2.1053 §27.53(h)	Radiated Spurious Emission (5G NR n66, n70)	< $43+10\log_{10}$(P[Watts])	PASS	Under limit 32.98 dB at 5176.00 MHz
	§2.1053 §27.53(m)(4)	Radiated Spurious Emission (5G NR n7, n41, n38)	< $55+10\log_{10}$(P[Watts])		

Declaration of Conformity:
The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.
Comments and Explanations:
The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

1 General Description

1.1 Applicant

Motorola Mobility LLC
222 W,Merchandise Mart Plaza, Chicago IL 60654 USA

1.2 Manufacturer

Motorola Mobility LLC
222 W,Merchandise Mart Plaza, Chicago IL 60654 USA

1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	Mobile Cellular Phone
Brand Name	Motorola
Model Name	XT2305-1
FCC ID	IHDT56AL5
IMEI Code	Conducted : 351048560017430, 351072410011450 Radiation : 351048560020038/351048560020046
HW Version	DVT2
SW Version	TTT33.46
EUT Stage	Identical Prototype

1.4 Product Specification of Equipment Under Test

Standards-related Product Specification	
Tx Frequency	5G NR n7 : 2500 MHz ~ 2570 MHz 5G NR n38 : 2570 MHz ~ 2620 MHz 5G NR n41 : 2496 MHz ~ 2690 MHz 5G NR n66 : 1710 MHz ~ 1780 MHz 5G NR n70 : 1695 MHz ~ 1710 MHz
Rx Frequency	5G NR n7 : 2620 MHz ~ 2690 MHz 5G NR n38: 2570 MHz ~ 2620 MHz 5G NR n41 : 2496 MHz ~ 2690 MHz 5G NR n66 : 2110 MHz~ 2200 MHz 5G NR n70 : 1995 MHz ~ 2020 MHz
Bandwidth	**For SCS 15kHz:** n7: 5MHz / 10MHz / 15MHz / 20MHz / 25MHz / 30MHz / 40MHz / 50MHz n38, n66: 5MHz / 10MHz / 15MHz / 20MHz / 25MHz / 30MHz / 40MHz n41 : 10MHz / 15MHz / 20MHz / 30MHz / 40MHz / 50MHz n70: 5MHz / 10MHz / 15MHz (20MHz / 25MHz Rx only) **For SCS 30kHz:** n7: 10MHz / 15MHz / 20MHz / 25MHz / 30MHz / 40MHz / 50MHz n38, n66: 10MHz / 15MHz / 20MHz / 25MHz / 30MHz / 40MHz n41 : 10MHz / 15MHz / 20MHz / 30MHz / 40MHz / 50MHz / 60MHz / 70MHz /

	80MHz / 90MHz / 100MHz n70: 10MHz / 15MHz (20MHz / 25MHz Rx only)
SCS	15kHz, 30kHz
Antenna Gain	**<Ant. 0>:** n7: -7.0 dBi n38: -7.0 dBi n41: -7.0 dBi n66: -6.1 dBi n70: -6.4 dBi **<Ant. 1>:** n7: -5.3 dBi n38: -5.3 dBi n41: -5.3 dBi n66: -7.5 dBi n70: -8.0 dBi **<Ant. 2>:** n41: -9.3 dBi **<Ant. 6>:** n41: -6.5 dBi
Type of Modulation	CP-OFDM: QPSK / 16QAM / 64QAM / 256QAM DFT-s-OFDM: PI/2 BPSK / QPSK / 16QAM / 64QAM / 256QAM

Remark:

1. The maximum EIRP is calculated from max output power and max antenna gain, only the maximum EIRP of Ant.0 for n66/n70, Ant.1 for n7/n38/n41 and Ant(0+1) for n41 UL_MIMO are shown in the report.
2. The device supports n41(1T4R) SRS resources on Ant.0/1/2/6, only the conducted test results of worst Ant.0 is showed in the report according to the maximum power.
3. The device supports HPUE(PC2) mode for n41, and HPUE(PC1.5) mode for n41 MIMO.
4. 5G NR n41 support UL MIMO mode for Ant(0+1)/ Ant(0+6)/ Ant(2+1)/ Ant(2+6), only the conducted test results of worst Ant (0+1) is shown in the report.
5. For n41 MIMO mode, the Ant (0+1) MIMO Gain = $10 \log[(10^{Ant.0/20} + 10^{Ant.1/20})^2 /2] = -3.1$dBi.
6. For n41 MIMO mode, the conducted BE/Spurious are tested at single antenna port and add 10*log(N_{ANT}) according to KDB 662911 D01.
7. 5G NR n38/n70 support SA mode only, n7/n41/n66 support SA&NSA mode, According to the maximum power between SA and NSA mode, SA covers NSA mode.
8. 5G NR bands support SCS 15kHz and SCS 30kHz, for n7/n38/n66/n70 only full test SCS 15kHz to cover SCS 30kHz by referring to the maximum output power, for n41 full test SCS 15kHz & SCS 30kHz.
9. All the supported ENDC combinations are verified conducted power, only the ENDC combination with highest power are shown in the report.
10. The EN-DC mode combination could be referred to the product spec.

1.5 Specification of Accessory

Specification of Accessory				
AC Adapter 1	**Brand Name**	Motorola(Chenyang)	**Model Name**	MC-681N
AC Adapter 2	**Brand Name**	Motorola(Acbel)	**Model Name**	MC-681N
Battery	**Brand Name**	Motorola(Amperex)	**Model Name**	PG44
USB Cable 1	**Brand Name**	Motorola (Saibao)	**Model Name**	SC18D86731
USB Cable 2	**Brand Name**	Motorola (Saibao)	**Model Name**	SC18D71644

1.6 Modification of EUT

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

1.7 Maximum EIRP Power and Emission Designator

5G NR n7 – SCS 15k		PI/2 BPSK / QPSK		16QAM / 64QAM / 256QAM	
BW (MHz)	Frequency Range (MHz)	Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)
5	2502.5 ~ 2567.5	0.0635	4M47G7D	0.0499	4M48W7D
10	2505.0 ~ 2565.0	0.0628	9M27G7D	0.0491	9M31W7D
15	2507.5 ~ 2562.5	0.0621	14M1G7D	0.0499	14M1W7D
20	2510.0 ~ 2560.0	0.0637	18M9G7D	0.0497	18M9W7D
25	2512.5 ~ 2557.5	0.0604	23M7G7D	0.0491	23M8W7D
30	2515.0 ~ 2555.0	0.0610	28M6G7D	0.0492	28M5W7D
40	2520.0 ~ 2550.0	0.0596	38M6G7D	0.0489	38M6W7D
50	2525.0 ~ 2545.0	0.0640	48M1G7D	0.0499	48M1W7D

5G NR n38 – SCS 15k		PI/2 BPSK / QPSK		16QAM / 64QAM / 256QAM	
BW (MHz)	Frequency Range (MHz)	Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)
5	2572.5 ~ 2617.5	0.0625	4M46G7D	0.0498	4M47W7D
10	2575.0 ~ 2615.0	0.0617	9M28G7D	0.0498	9M29W7D
15	2577.5 ~ 2612.5	0.0621	14M1G7D	0.0499	14M1W7D
20	2580.0 ~ 2610.0	0.0615	18M9G7D	0.0479	18M9W7D
25	2582.5 ~ 2607.5	0.0625	23M7G7D	0.0498	23M7W7D
30	2585.0 ~ 2605.0	0.0624	28M6G7D	0.0493	28M6W7D
40	2590.0 ~ 2600.0	0.0641	38M7G7D	0.0530	38M6W7D

5G NR n41 MIMO – SCS 15k		PI/2 BPSK / QPSK		16QAM / 64QAM / 256QAM	
BW (MHz)	Frequency Range (MHz)	Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)
10	2501.01 ~ 2685.00	0.3428	9M29G7D	0.2761	9M28W7D
15	2503.50 ~ 2682.495	0.3396	14M1G7D	0.2698	14M1W7D
20	2506.005 ~ 2679.99	0.3420	19M0G7D	0.2716	18M9W7D
30	2511.00 ~ 2674.995	0.3428	28M6G7D	0.2716	28M6W7D
40	2516.01 ~ 2670.00	0.3499	38M7G7D	0.2786	38M6W7D
50	2521.005 ~ 2664.99	0.3581	48M3G7D	0.2818	48M3W7D

5G NR n41 MIMO – SCS 30k		PI/2 BPSK / QPSK		16QAM / 64QAM / 256QAM	
BW (MHz)	Frequency Range (MHz)	Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)
10	2501.01 ~ 2685.00	0.3304	8M57G7D	0.2460	8M60W7D
15	2503.50 ~ 2682.48	0.3281	13M6G7D	0.2415	13M6W7D
20	2506.02 ~ 2679.99	0.3266	18M2G7D	0.2564	18M2W7D
30	2511.00 ~ 2674.98	0.3258	27M8G7D	0.2371	27M9W7D
40	2516.01 ~ 2670.00	0.3296	37M9G7D	0.2466	37M9W7D
50	2521.02 ~ 2664.99	0.3365	47M4G7D	0.2518	47M6W7D
60	2526.00 ~ 2659.98	0.3327	58M0G7D	0.2460	57M9W7D
70	2531.01 ~ 2655.00	0.3311	67M5G7D	0.2366	67M7W7D
80	2536.02 ~ 2649.99	0.3170	77M5G7D	0.2360	77M6W7D
90	2541.00 ~ 2644.98	0.2999	87M5G7D	0.2280	87M7W7D
100	2546.01 ~ 2640.00	0.3556	97M7G7D	0.2661	97M6W7D

5G NR n66 – SCS 15k		PI/2 BPSK / QPSK		16QAM / 64QAM / 256QAM	
BW (MHz)	Frequency Range (MHz)	Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)
5	1712.5 ~ 1777.5	0.0495	4M47G7D	0.0408	4M47W7D
10	1715.0 ~ 1775.0	0.0500	9M29G7D	0.0405	9M28W7D
15	1717.5 ~ 1772.5	0.0495	14M1G7D	0.0382	14M1W7D
20	1720.0 ~ 1770.0	0.0498	18M9G7D	0.0384	19M0W7D
25	1722.5 ~ 1767.5	0.0483	23M8G7D	0.0371	23M7W7D
30	1725.0 ~ 1765.0	0.0475	28M6G7D	0.0373	28M6W7D
40	1730.0 ~ 1760.0	0.0513	38M7G7D	0.0388	38M7W7D

5G NR n70 – SCS 15k		PI/2 BPSK / QPSK		16QAM / 64QAM / 256QAM	
BW (MHz)	Frequency Range (MHz)	Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)
5	1697.5 ~ 1707.5	0.0452	4M47G7D	0.0352	4M48W7D
10	1700.0 ~ 1705.0	0.0454	9M30G7D	0.0348	9M32W7D
15	1702.5	0.0468	14M1G7D	0.0372	14M1W7D

Note:

1. 5G NR Band n41 overlaps the entire frequency range of Band n38. Therefore, the conducted test results provided in this report covers Band n41 as well as Band n38, and 5G NR n38 additional test BW 5/25MHz for SCS 15kHz.
2. All modulations have been tested, only the maximum bandwidth and the worst test results of PSK & QAM are shown in the report.

1.8 Testing Location

Sporton International Inc. (Kunshan) is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.02.

Test Firm	Sporton International Inc. (Kunshan)		
Test Site Location	No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300 People's Republic of China TEL : +86-512-57900158		
Test Site No.	**Sporton Site No.**	**FCC Designation No.**	**FCC Test Firm Registration No.**
	03CH04-KS	CN1257	314309

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

Test Firm	Sporton International Inc. (ShenZhen)		
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 data subcontracted: Conducted test case in section 3 of this report.

1.9 Test Software

Item	Site	Manufacturer	Name	Version
1.	03CH04-KS	AUDIX	E3	6.2009-8-24al

1.10 Applicable Standards

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

- 47 CFR Part 2, 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 (X/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
			

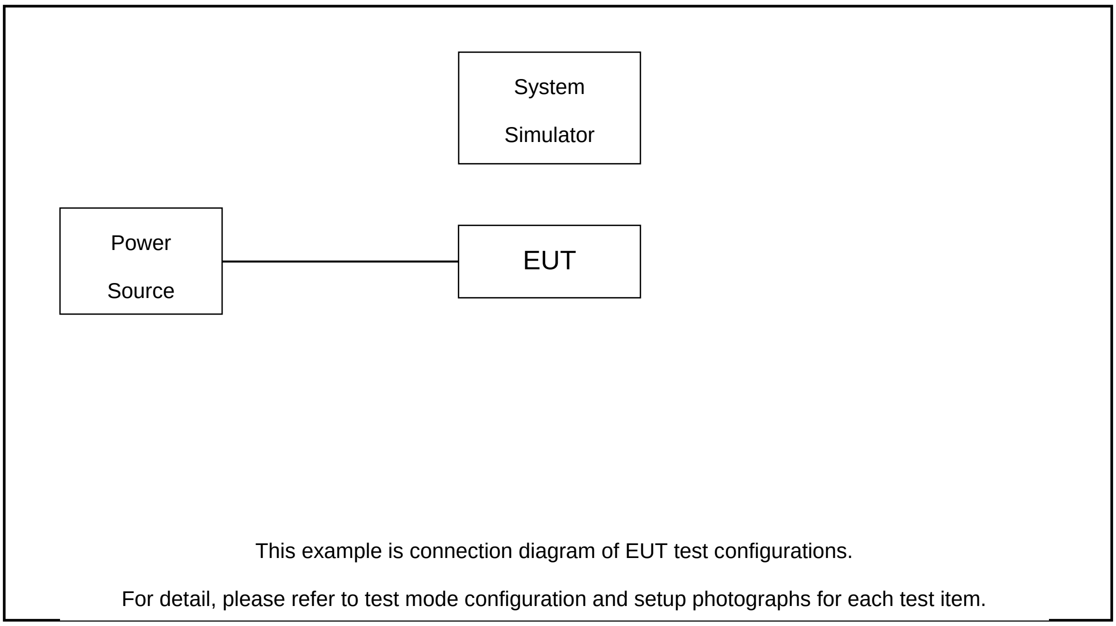
Test Items	5G NR	Bandwidth (MHz)													Modulation					RB #		Test Channel		
		5	10	15	20	25	30	40	50	60	70	80	90	100	PI/2 BPSK	QPSK	16QAM	64QAM	256QAM	1	Full	L	M	H
Max. Output Power	n7	v	v	v	v	v	v	v	v	-	-	-	-	-	v	v	v	v	v	v	v	v	v	v
	n38	v	v	v	v	v	v	v	-	-	-	-	-	-	v	v	v	v	v	v	v	v	v	v
	n41	-	v	v	v	-	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v
	n66	v	v	v	v	v	v	v	-	-	-	-	-	-	v	v	v	v	v	v	v	v	v	v
	n70	v	v	v			-	-	-	-	-	-	-	-	v	v	v	v	v	v	v	v	v	v
Peak-to-Average Ratio	n7				v					-	-	-	-	-	v	v				v	v	v	v	v
	n38					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
	n70		v				-	-	-	-	-	-	-	-	v	v				v	v	v	v	v
26dB and 99% Bandwidth	n7	v	v	v	v	v	v	v	v	-	-	-	-	-	v	v	v	v	v		v		v	
	n38	v				v			-	-	-	-	-	-	v	v	v	v	v		v		v	
	n41	-	v	v	v	-	v	v	v	v	v	v	v	v	v	v	v	v	v		v		v	
	n66	v	v	v	v	v	v	v	-	-	-	-	-	-	v	v	v	v	v		v		v	
	n70	v	v	v			-	-	-	-	-	-	-	-	v	v	v	v	v		v		v	

Test Items	5G NR	Bandwidth (MHz)													Modulation					RB #		Test Channel		
		5	10	15	20	25	30	40	50	60	70	80	90	100	PI/2 BPSK	QPSK	16QAM	64QAM	256QAM	1	Full	L	M	H
Conducted Band Edge	n7	v			v				v	-	-	-	-	-	v	v				v	v	v		v
	n38	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
	n70	v	v	v			-	-	-	-	-	-	-	-	v	v				v	v	v		v
Conducted Spurious Emission	n7	v			v				v	-	-	-	-	-	v	v				v		v	v	v
	n38	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
	n70	v	v	v			-	-	-	-	-	-	-	-	v	v				v		v	v	v
Frequency Stability	n7				v					-	-	-	-	-		v					v		v	
	n38					v			-	-	-	-	-	-		v					v		v	
	n41	-			v	-										v					v		v	
	n66				v				-	-	-	-	-	-		v					v		v	
	n70		v				-	-	-	-	-	-	-	-		v					v		v	
E.I.R.P	n7	v	v	v	v	v	v	v	v	-	-	-	-	-	v	v	v	v	v	v	v	v	v	v
	n38	v	v	v	v	v	v	v	-	-	-	-	-	-	v	v	v	v	v	v	v	v	v	v
	n41	-	v	v	v	-	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v
	n66	v	v	v	v	v	v	v	-	-	-	-	-	-	v	v	v	v	v	v	v	v	v	v
	n70	v	v	v			-	-	-	-	-	-	-	-	v	v	v	v	v	v	v	v	v	v
Radiated Spurious Emission	n7	Worst Case																				v	v	v
	n41	Worst Case																				v	v	v
	n66	Worst Case																				v	v	v
	n70	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.
4. Frequency Stability: Normal Voltage = 3.91V ; Low Voltage =3.40V ; High Voltage =4.50V.

2.2 Connection Diagram of Test System



The EUT has been configuration operated in a manner tended to maximize its emission characteristics in a typical application.

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.	LTE Base Station	Anritsu	MT8821C	N/A	N/A	Unshielded, 1.8 m
3.	NR Base Station	Anritsu	MT8000A	N/A	N/A	Unshielded, 1.8 m

2.4 Measurement Results Explanation Example

For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss 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 8.62 dB.

Example :

Offset(dB) = RF cable loss(dB).

= 8.62 (dB)

2.5 Frequency List of Low/Middle/High Channels

5G NR n7 Channel and Frequency List for SCS 15k/30k				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
50	Channel	505000	507000	509000
	Frequency	2525	2535	2545
40	Channel	504000	507000	510000
	Frequency	2520	2535	2550
30	Channel	503000	507000	511000
	Frequency	2515	2535	2555
25	Channel	502500	507000	511500
	Frequency	2512.5	2535	2557.5
20	Channel	502000	507000	512000
	Frequency	2510	2535	2560
15	Channel	501500	507000	512500
	Frequency	2507.5	2535	2562.5
10	Channel	501000	507000	513000
	Frequency	2505	2535	2565
5	Channel	500500	507000	513500
	Frequency	2502.5	2535	2567.5

5G NR n38 Channel and Frequency List for SCS 15k/30k				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
40	Channel	518000	519000	520000
	Frequency	2590	2595	2600
30	Channel	517000	519000	521000
	Frequency	2585	2595	2605
25	Channel	516500	519000	521500
	Frequency	2582.5	2595	2607.5
20	Channel	516000	519000	522000
	Frequency	2580	2595	2610
15	Channel	515500	519000	522500
	Frequency	2577.5	2595	2612.5
10	Channel	515000	519000	523000
	Frequency	2575	2595	2615
5	Channel	514500	519000	523500
	Frequency	2572.5	2595	2617.5

5G NR n41 Channel and Frequency List for SCS 15k				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
50	Channel	504201	518601	532998
	Frequency	2521.005	2593.005	2664.99
40	Channel	503202	518601	534000
	Frequency	2516.01	2593.005	2670
30	Channel	502200	518601	534999
	Frequency	2511	2593.005	2674.995
20	Channel	501201	518601	535998
	Frequency	2506.005	2593.005	2679.99
15	Channel	500700	518601	536499
	Frequency	2503.5	2593.005	2682.495
10	Channel	500202	518601	537000
	Frequency	2501.01	2593.005	2685

5G NR n41 Channel and Frequency List for SCS 30k				
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
70	Channel	506202	518598	531000
	Frequency	2531.01	2592.99	2655
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
30	Channel	502200	518598	534996
	Frequency	2511	2592.99	2674.98
20	Channel	501204	518598	535998
	Frequency	2506.02	2592.99	2679.99

15	Channel	500700	518598	536496
	Frequency	2503.5	2592.99	2682.48
10	Channel	500202	518598	537000
	Frequency	2501.01	2592.99	2685

5G NR n66 Channel and Frequency List for SCS 15k/30k				
BW [MHz]	**Channel/Frequency(MHz)**	**Lowest**	**Middle**	**Highest**
40	Channel	346000	349000	352000
	Frequency	1730	1745	1760
30	Channel	345000	349000	353000
	Frequency	1725	1745	1765
25	Channel	344500	349000	353500
	Frequency	1722.5	1745	1767.5
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 n70 Channel and Frequency List for SCS 15k/30k				
BW [MHz]	**Channel/Frequency(MHz)**	**Lowest**	**Middle**	**Highest**
15	Channel		340500	
	Frequency		1702.5	
10	Channel	340000	340500	341000
	Frequency	1700	1702.5	1705
5	Channel	399500	340500	341500
	Frequency	1697.5	1702.5	1707.5

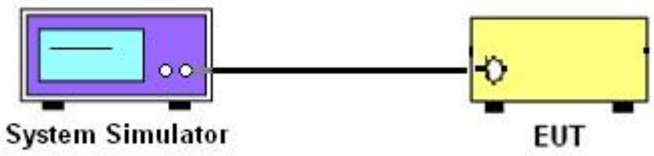
3 Conducted Test Items

3.1 Measuring Instruments

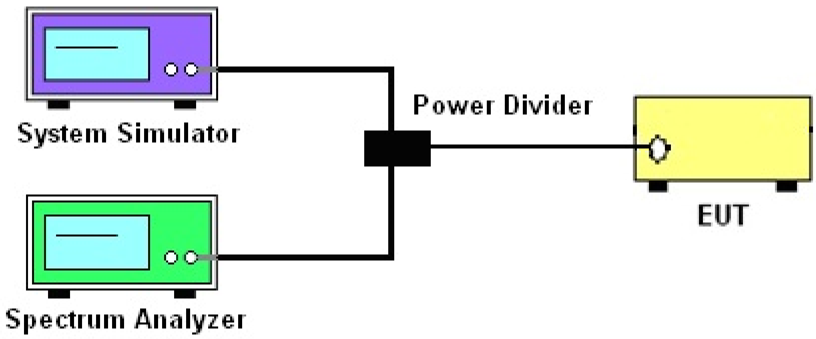
See list of measuring instruments of this test report.

3.2 Test Setup

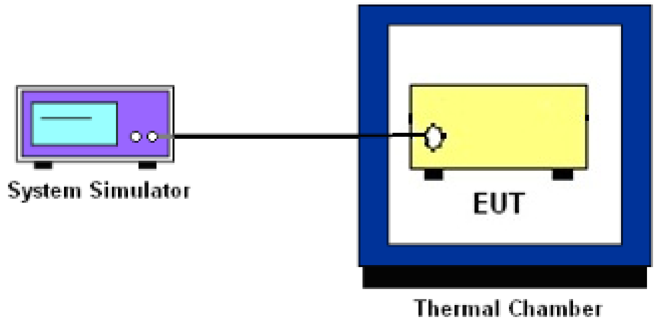
3.2.1 Conducted Output Power



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 EIRP of mobile transmitters must not exceed 2 Watts for 5G NR n7, n38, n41.

The EIRP of mobile transmitters must not exceed 1 Watts for 5G NR n66, n70.

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

27.53 (h)

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

27.53(m)(4)

For mobile digital stations, the attenuation factor shall be not less than 40 + 10 log (P) dB on all frequencies between the channel edge and 5 megahertz from the channel edge, 43 + 10 log (P) dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and 55 + 10 log (P) dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less 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 >= 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 or a narrower RBW was used (generally limited to no less than 1% of the OBW) and the measured power was integrated over the full required measurement bandwidth.
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 + 10log(P)dB below the transmitter power P(Watts)

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

   = [30 + 10log(P)] (dBm) - [43 + 10log(P)] (dB) = -13dBm.
9. When using the integration method, the starting frequency of the integration shall be centered at one-half of the RBW away from the band edge.

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 n7/n38/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 10^{th} 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 + 10log(P)dB below the transmitter power P(Watts)
    = P(W)- [43 + 10log(P)] (dB)
    = [30 + 10log(P)] (dBm) - [43 + 10log(P)] (dB)
    = -13dBm.
11. For 5G NR n7/n38/n41
    The limit line is derived from 55 + 10log(P)dB below the transmitter power P(Watts)
    = P(W)- [55+ 10log(P)] (dB)
    = [30+ 10log(P)] (dBm) - [55+ 10log(P)] (dB)
    = -25dBm.

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 ±0.00025% (±2.5ppm) 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±5°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.

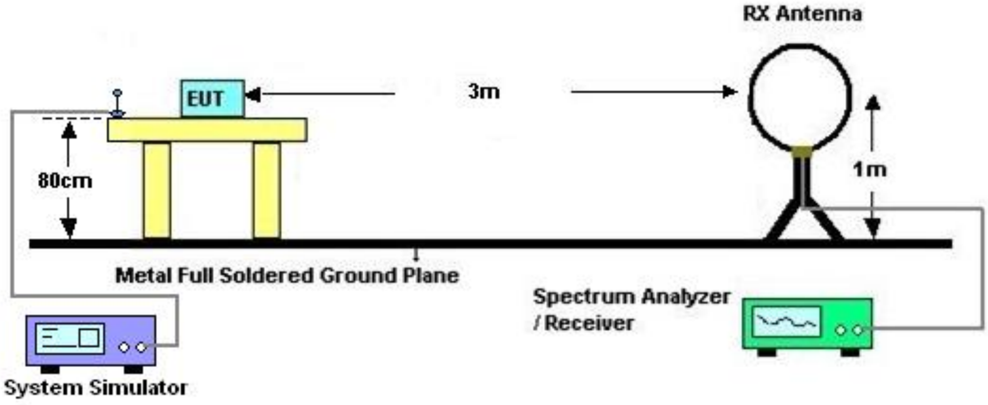
4 Radiated Test Items

4.1 Measuring Instruments

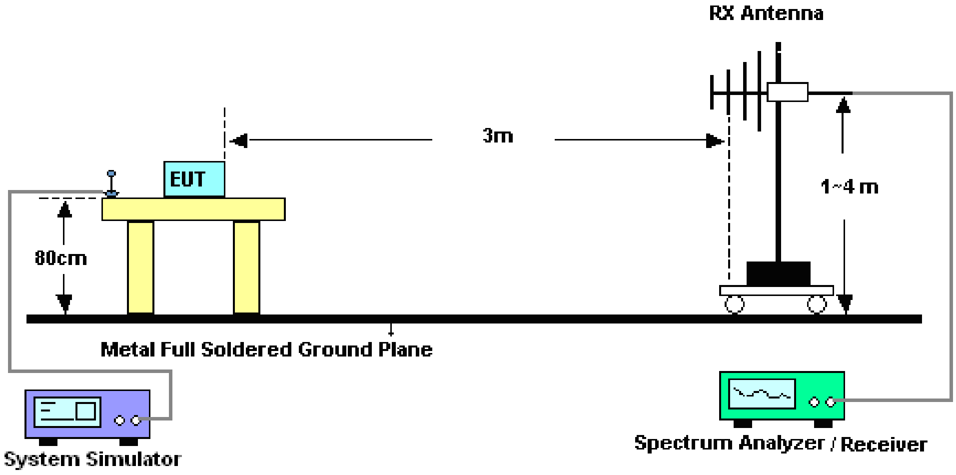
See list of measuring instruments of this test report.

4.2 Test Setup

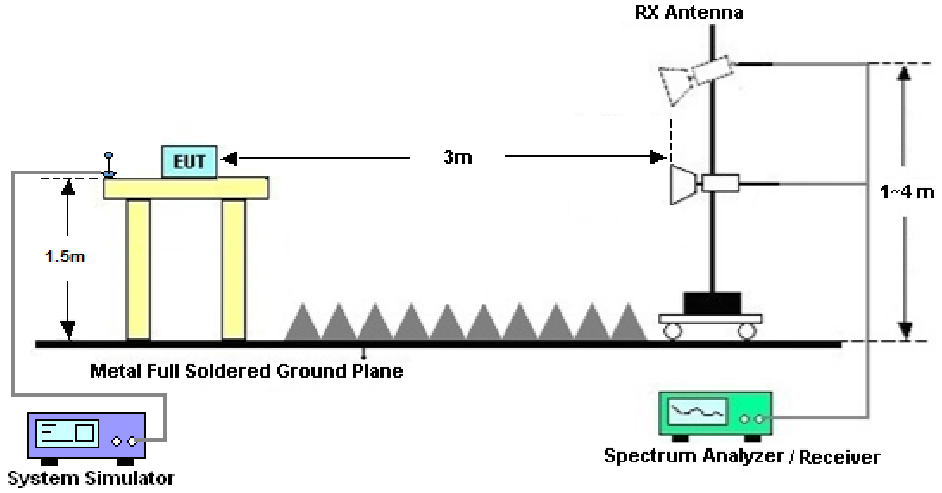
4.2.1 For radiated test below 30MHz



4.2.2 For radiated test from 30MHz to 1GHz



4.2.3 For radiated test above 1GHz



4.3 Test Result of Radiated Test

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

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 n7/n38/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 (dBm) = S.G. Power – Tx Cable Loss + Tx Antenna Gain
11. ERP (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 + 10log(P)dB below the transmitter power P(Watts)
    = P(W)- [43 + 10log(P)] (dB)
    = [30 + 10log(P)] (dBm) - [43 + 10log(P)] (dB)
    = -13dBm.
13. For 5G NR n7/n38/n41:
    The limit line is derived from 55 + 10log(P)dB below the transmitter power P(Watts)The limit line is derived from 55 + 10log(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. 07, 2022	Mar. 08, 2023~ Apr. 04, 2023	Apr. 08, 2023	Conducted (TH01-SZ)
Power Divider	TOJOIN	PS-2SM-04 265	60.06.020.007 7	0.4GHz~26.5GHz	Dec. 25, 2022	Mar. 08, 2023~ Apr. 04, 2023	Dec. 24, 2023	Conducted (TH01-SZ)
Thermal Chamber	Ten Billion Hongzhangroup	LP-150U	H2014081803	-40~+150°C	Jul. 07, 2022	Mar. 08, 2023~ Apr. 04, 2023	Jul. 06, 2023	Conducted (TH01-SZ)
EXA Spectrum Analyzer	Keysight	N9010B	MY57471079	10Hz-44G,MAX 30dB	Oct. 12, 2022	Mar. 30, 2023	Oct. 11, 2023	Radiation (03CH04-KS)
Loop Antenna	R&S	HFH2-Z2	100321	9kHz~30MHz	Oct. 29, 2022	Mar. 30, 2023	Oct. 28, 2023	Radiation (03CH04-KS)
Bilog Antenna	TeseQ	CBL6111D	49922	30MHz-1GHz	May 24, 2022	Mar. 30, 2023	May 23, 2023	Radiation (03CH04-KS)
Horn Antenna	Schwarzbeck	BBHA9120D	1284	1GHz~18GHz	Oct. 16, 2022	Mar. 30, 2023	Oct. 15, 2023	Radiation (03CH04-KS)
SHF-EHF Horn	Com-power	AH-840	101070	18GHz~40GHz	Jan. 08, 2023	Mar. 30, 2023	Jan. 07, 2024	Radiation (03CH04-KS)
Amplifier	SONOMA	310N	187289	9KHz-1GHz	May 24, 2022	Mar. 30, 2023	May 23, 2023	Radiation (03CH04-KS)
Amplifier	MITEQ	EM18G40G GA	060728	18~40GHz	Jan. 05, 2023	Mar. 30, 2023	Jan. 04, 2024	Radiation (03CH04-KS)
high gain Amplifier	EM	EM01G18G A	060840	1Ghz-18Ghz	Oct. 12, 2022	Mar. 30, 2023	Oct. 11, 2023	Radiation (03CH04-KS)
Amplifier	Agilent	8449B	3008A02370	1Ghz-18Ghz	Oct. 12, 2022	Mar. 30, 2023	Oct. 11, 2023	Radiation (03CH04-KS)
AC Power Source	Chroma	61601	F104090004	N/A	NCR	Mar. 30, 2023	NCR	Radiation (03CH04-KS)
Turn Table	ChamPro	EM 1000-T	060762-T	0~360 degree	NCR	Mar. 30, 2023	NCR	Radiation (03CH04-KS)
Antenna Mast	ChamPro	EM 1000-A	060762-A	1 m~4 m	NCR	Mar. 30, 2023	NCR	Radiation (03CH04-KS)

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 Conducted Measurement

Test Item	Uncertainty
Conducted Power	±1.34 dB
Conducted Emissions	±1.34 dB
Occupied Channel Bandwidth	±0.13 %

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	3.3dB

Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	2.8dB

Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	2.8dB

----------- THE END -----------

Appendix A. Test Results of Conducted Test

Test Engineer :	Jung Guo	**Temperature :**	22~23℃
		Relative Humidity :	40~42%

Software Version: 22.12.120701

FR1 N7(ANT1) – SCS 15k

Transmitter Conducted Output Power And EIRP, $(G_T - L_C)$=-5.3dB

NR Band	SCS	BandWidth	Arfcn	Freq (MHz)	Modulation	RB	Conducted Power (dBm)	EIRP (dBm)	EIRP (W)
7	15	5	500500	2502.5	DFT-s-OFDM QPSK	1@1	23.16	17.86	0.0611
7	15	5	500500	2502.5	DFT-s-OFDM 16 QAM	1@1	22.14	16.84	0.0483
7	15	5	507000	2535	DFT-s-OFDM QPSK	1@1	23.1	17.8	0.0603
7	15	5	507000	2535	DFT-s-OFDM 16 QAM	1@1	22.07	16.77	0.0475
7	15	5	513500	2567.5	DFT-s-OFDM QPSK	1@1	23.33	18.03	0.0635
7	15	5	513500	2567.5	DFT-s-OFDM 16 QAM	1@1	22.28	16.98	0.0499
7	15	10	501000	2505	DFT-s-OFDM QPSK	1@1	23.28	17.98	0.0628
7	15	10	501000	2505	DFT-s-OFDM 16 QAM	1@1	22.21	16.91	0.0491
7	15	10	507000	2535	DFT-s-OFDM QPSK	1@1	23.15	17.85	0.0610
7	15	10	507000	2535	DFT-s-OFDM 16 QAM	1@1	22.07	16.77	0.0475
7	15	10	513000	2565	DFT-s-OFDM QPSK	1@1	23.26	17.96	0.0625
7	15	10	513000	2565	DFT-s-OFDM 16 QAM	1@1	22.21	16.91	0.0491
7	15	15	501500	2507.5	DFT-s-OFDM QPSK	1@1	23.23	17.93	0.0621
7	15	15	501500	2507.5	DFT-s-OFDM 16 QAM	1@1	22.25	16.95	0.0495
7	15	15	507000	2535	DFT-s-OFDM QPSK	1@1	23.22	17.92	0.0619
7	15	15	507000	2535	DFT-s-OFDM 16 QAM	1@1	22.13	16.83	0.0482
7	15	15	512500	2562.5	DFT-s-OFDM QPSK	1@1	23.23	17.93	0.0621
7	15	15	512500	2562.5	DFT-s-OFDM 16 QAM	1@1	22.28	16.98	0.0499
7	15	20	502000	2510	DFT-s-OFDM QPSK	1@1	23.34	18.04	0.0637
7	15	20	502000	2510	DFT-s-OFDM 16 QAM	1@1	22.26	16.96	0.0497
7	15	20	507000	2535	DFT-s-OFDM QPSK	1@1	23.17	17.87	0.0612
7	15	20	507000	2535	DFT-s-OFDM 16 QAM	1@1	22.15	16.85	0.0484
7	15	20	512000	2560	DFT-s-OFDM QPSK	1@1	23.19	17.89	0.0615
7	15	20	512000	2560	DFT-s-OFDM 16 QAM	1@1	22.24	16.94	0.0494
7	15	25	502500	2512.5	DFT-s-OFDM QPSK	1@1	23.11	17.81	0.0604
7	15	25	502500	2512.5	DFT-s-OFDM 16 QAM	1@1	22.21	16.91	0.0491
7	15	25	507000	2535	DFT-s-OFDM QPSK	1@1	23.08	17.78	0.0600
7	15	25	507000	2535	DFT-s-OFDM 16 QAM	1@1	22.15	16.85	0.0484
7	15	25	511500	2557.5	DFT-s-OFDM QPSK	1@1	23.1	17.8	0.0603
7	15	25	511500	2557.5	DFT-s-OFDM 16 QAM	1@1	22.16	16.86	0.0485
7	15	30	503000	2515	DFT-s-OFDM QPSK	1@1	23.15	17.85	0.0610
7	15	30	503000	2515	DFT-s-OFDM 16 QAM	1@1	22.22	16.92	0.0492
7	15	30	507000	2535	DFT-s-OFDM QPSK	1@1	23.05	17.75	0.0596
7	15	30	507000	2535	DFT-s-OFDM 16 QAM	1@1	22.11	16.81	0.0480
7	15	30	511000	2555	DFT-s-OFDM QPSK	1@1	23.13	17.83	0.0607
7	15	30	511000	2555	DFT-s-OFDM 16 QAM	1@1	22.18	16.88	0.0488
7	15	40	504000	2520	DFT-s-OFDM QPSK	1@1	23	17.7	0.0589
7	15	40	504000	2520	DFT-s-OFDM 16 QAM	1@1	22.19	16.89	0.0489
7	15	40	507000	2535	DFT-s-OFDM QPSK	1@1	23.01	17.71	0.0590
7	15	40	507000	2535	DFT-s-OFDM 16 QAM	1@1	22.04	16.74	0.0472

7	15	40	510000	2550	DFT-s-OFDM QPSK	1@1	23.05	17.75	0.0596
7	15	40	510000	2550	DFT-s-OFDM 16 QAM	1@1	22.18	16.88	0.0488
7	15	50	505000	2525	DFT-s-OFDM PI/2 BPSK	135@67	23.09	17.79	0.0601
7	15	50	505000	2525	DFT-s-OFDM PI/2 BPSK	1@1	23.04	17.74	0.0594
7	15	50	505000	2525	DFT-s-OFDM PI/2 BPSK	1@268	23.06	17.76	0.0597
7	15	50	505000	2525	DFT-s-OFDM QPSK	135@67	23.05	17.75	0.0596
7	15	50	505000	2525	DFT-s-OFDM QPSK	1@1	23.14	17.84	0.0608
7	15	50	505000	2525	DFT-s-OFDM QPSK	1@268	23.06	17.76	0.0597
7	15	50	505000	2525	DFT-s-OFDM 16 QAM	135@67	22.07	16.77	0.0475
7	15	50	505000	2525	DFT-s-OFDM 16 QAM	1@1	22.09	16.79	0.0478
7	15	50	505000	2525	DFT-s-OFDM 16 QAM	1@268	22.21	16.91	0.0491
7	15	50	505000	2525	DFT-s-OFDM 64 QAM	135@67	20.53	15.23	0.0333
7	15	50	505000	2525	DFT-s-OFDM 64 QAM	1@1	20.76	15.46	0.0352
7	15	50	505000	2525	DFT-s-OFDM 64 QAM	1@268	20.66	15.36	0.0344
7	15	50	505000	2525	DFT-s-OFDM 256 QAM	135@67	18.52	13.22	0.0210
7	15	50	505000	2525	DFT-s-OFDM 256 QAM	1@1	18.65	13.35	0.0216
7	15	50	505000	2525	DFT-s-OFDM 256 QAM	1@268	18.83	13.53	0.0225
7	15	50	505000	2525	CP-OFDM QPSK	135@67	21.54	16.24	0.0421
7	15	50	505000	2525	CP-OFDM QPSK	1@1	21.72	16.42	0.0439
7	15	50	505000	2525	CP-OFDM QPSK	1@268	21.72	16.42	0.0439
7	15	50	507000	2535	DFT-s-OFDM PI/2 BPSK	135@67	23.18	17.88	0.0614
7	15	50	507000	2535	DFT-s-OFDM PI/2 BPSK	1@1	23.08	17.78	0.0600
7	15	50	507000	2535	DFT-s-OFDM PI/2 BPSK	1@268	23.22	17.92	0.0619
7	15	50	507000	2535	DFT-s-OFDM QPSK	135@67	23.12	17.82	0.0605
7	15	50	507000	2535	DFT-s-OFDM QPSK	1@1	23.08	17.78	0.0600
7	15	50	507000	2535	DFT-s-OFDM QPSK	1@268	23.36	18.06	0.0640
7	15	50	507000	2535	DFT-s-OFDM 16 QAM	135@67	22.17	16.87	0.0486
7	15	50	507000	2535	DFT-s-OFDM 16 QAM	1@1	22.02	16.72	0.0470
7	15	50	507000	2535	DFT-s-OFDM 16 QAM	1@268	22.26	16.96	0.0497
7	15	50	507000	2535	DFT-s-OFDM 64 QAM	135@67	20.62	15.32	0.0340
7	15	50	507000	2535	DFT-s-OFDM 64 QAM	1@1	20.52	15.22	0.0333
7	15	50	507000	2535	DFT-s-OFDM 64 QAM	1@268	20.74	15.44	0.0350
7	15	50	507000	2535	DFT-s-OFDM 256 QAM	135@67	18.61	13.31	0.0214
7	15	50	507000	2535	DFT-s-OFDM 256 QAM	1@1	18.75	13.45	0.0221
7	15	50	507000	2535	DFT-s-OFDM 256 QAM	1@268	18.92	13.62	0.0230
7	15	50	507000	2535	CP-OFDM QPSK	135@67	21.59	16.29	0.0426
7	15	50	507000	2535	CP-OFDM QPSK	1@1	21.68	16.38	0.0435
7	15	50	507000	2535	CP-OFDM QPSK	1@268	21.7	16.4	0.0437
7	15	50	509000	2545	DFT-s-OFDM PI/2 BPSK	135@67	23.21	17.91	0.0618
7	15	50	509000	2545	DFT-s-OFDM PI/2 BPSK	1@1	23.05	17.75	0.0596
7	15	50	509000	2545	DFT-s-OFDM PI/2 BPSK	1@268	23.29	17.99	0.0630
7	15	50	509000	2545	DFT-s-OFDM QPSK	135@67	23.17	17.87	0.0612
7	15	50	509000	2545	DFT-s-OFDM QPSK	1@1	23	17.7	0.0589
7	15	50	509000	2545	DFT-s-OFDM QPSK	1@268	23.27	17.97	0.0627
7	15	50	509000	2545	DFT-s-OFDM 16 QAM	135@67	22.24	16.94	0.0494
7	15	50	509000	2545	DFT-s-OFDM 16 QAM	1@1	22.09	16.79	0.0478
7	15	50	509000	2545	DFT-s-OFDM 16 QAM	1@268	22.28	16.98	0.0499
7	15	50	509000	2545	DFT-s-OFDM 64 QAM	135@67	20.7	15.4	0.0347

7	15	50	509000	2545	DFT-s-OFDM 64 QAM	1@1	20.66	15.36	0.0344
7	15	50	509000	2545	DFT-s-OFDM 64 QAM	1@268	21	15.7	0.0372
7	15	50	509000	2545	DFT-s-OFDM 256 QAM	135@67	18.7	13.4	0.0219
7	15	50	509000	2545	DFT-s-OFDM 256 QAM	1@1	18.72	13.42	0.0220
7	15	50	509000	2545	DFT-s-OFDM 256 QAM	1@268	18.89	13.59	0.0229
7	15	50	509000	2545	CP-OFDM QPSK	135@67	19.68	14.38	0.0274
7	15	50	509000	2545	CP-OFDM QPSK	1@1	21.72	16.42	0.0439
7	15	50	509000	2545	CP-OFDM QPSK	1@268	21.83	16.53	0.0450

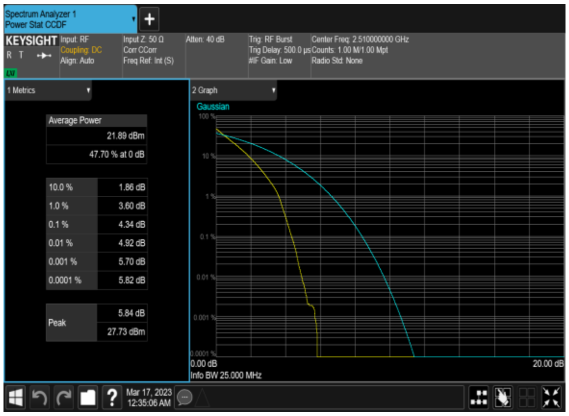
Frequency Stability

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Deviation (ppm)	Verdict	Environment
7	15	20	507000	2535.0	DFT-s-OFDM QPSK	100@0	0.0000	**PASS**	NV
7	15	20	507000	2535.0	DFT-s-OFDM QPSK	100@0	0.0001	**PASS**	LV
7	15	20	507000	2535.0	DFT-s-OFDM QPSK	100@0	0.0001	**PASS**	HV
7	15	20	507000	2535.0	DFT-s-OFDM QPSK	100@0	0.0008	**PASS**	-30℃
7	15	20	507000	2535.0	DFT-s-OFDM QPSK	100@0	0.0007	**PASS**	-20℃
7	15	20	507000	2535.0	DFT-s-OFDM QPSK	100@0	0.0013	**PASS**	-10℃
7	15	20	507000	2535.0	DFT-s-OFDM QPSK	100@0	0.0012	**PASS**	0℃
7	15	20	507000	2535.0	DFT-s-OFDM QPSK	100@0	0.0006	**PASS**	10℃
7	15	20	507000	2535.0	DFT-s-OFDM QPSK	100@0	0.0000	**PASS**	20℃
7	15	20	507000	2535.0	DFT-s-OFDM QPSK	100@0	0.0013	**PASS**	30℃
7	15	20	507000	2535.0	DFT-s-OFDM QPSK	100@0	0.0015	**PASS**	40℃
7	15	20	507000	2535.0	DFT-s-OFDM QPSK	100@0	0.0012	**PASS**	50℃

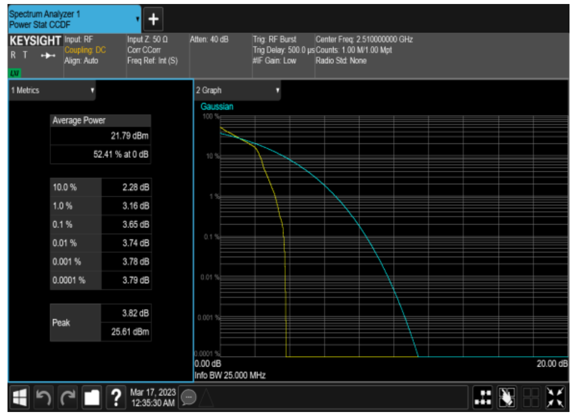
Peak to Average Ratio

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result (dB)	Limit (dB)	Verdict
7	15	20	502000	2510.0	DFT-s-OFDM PI/2 BPSK	100@0	4.34	13	**PASS**
7	15	20	502000	2510.0	DFT-s-OFDM PI/2 BPSK	1@0	3.65	13	**PASS**
7	15	20	502000	2510.0	DFT-s-OFDM QPSK	100@0	5.47	13	**PASS**
7	15	20	502000	2510.0	DFT-s-OFDM QPSK	1@0	4.94	13	**PASS**
7	15	20	507000	2535.0	DFT-s-OFDM PI/2 BPSK	100@0	4.3	13	**PASS**
7	15	20	507000	2535.0	DFT-s-OFDM PI/2 BPSK	1@0	4.08	13	**PASS**
7	15	20	507000	2535.0	DFT-s-OFDM QPSK	100@0	5.44	13	**PASS**
7	15	20	507000	2535.0	DFT-s-OFDM QPSK	1@0	5.15	13	**PASS**
7	15	20	512000	2560.0	DFT-s-OFDM PI/2 BPSK	100@0	4.38	13	**PASS**
7	15	20	512000	2560.0	DFT-s-OFDM PI/2 BPSK	1@0	4.09	13	**PASS**
7	15	20	512000	2560.0	DFT-s-OFDM QPSK	100@0	5.49	13	**PASS**
7	15	20	512000	2560.0	DFT-s-OFDM QPSK	1@0	5.43	13	**PASS**

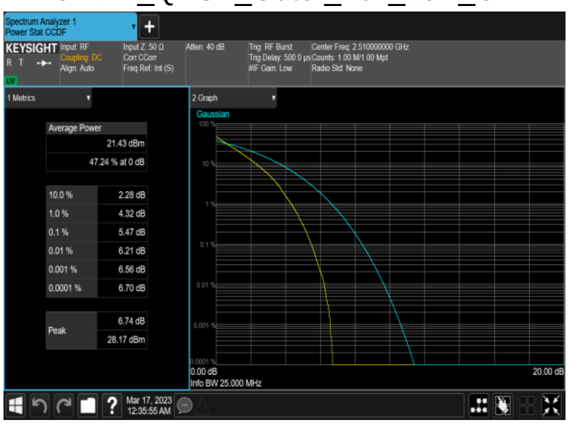
N7(20M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_Low_CH



N7(20M)_DFT-s-OFDM_PI_2-BPSK_Edge_1RB_Left_Low_CH

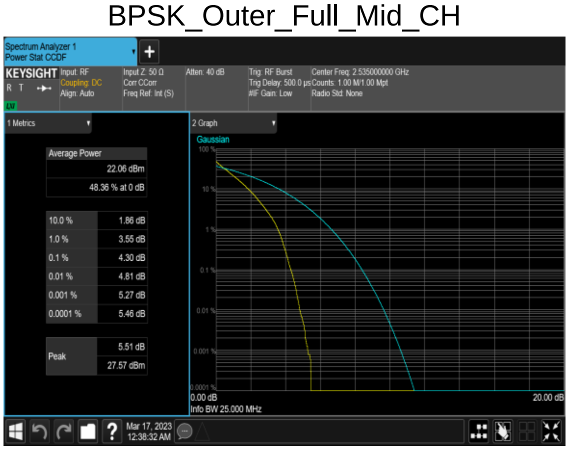


N7(20M)_DFT-s-OFDM_QPSK_Outer_Full_Low_CH

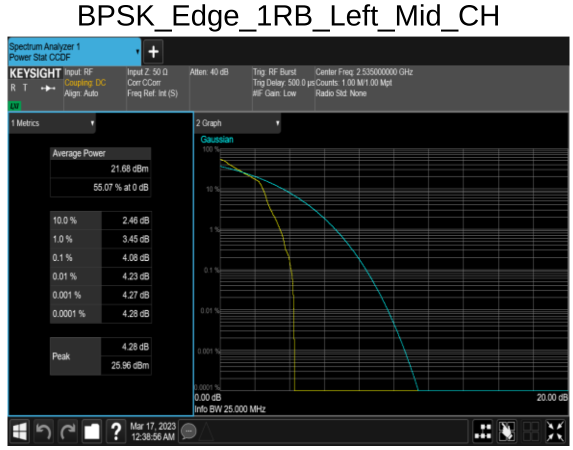


N7(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH

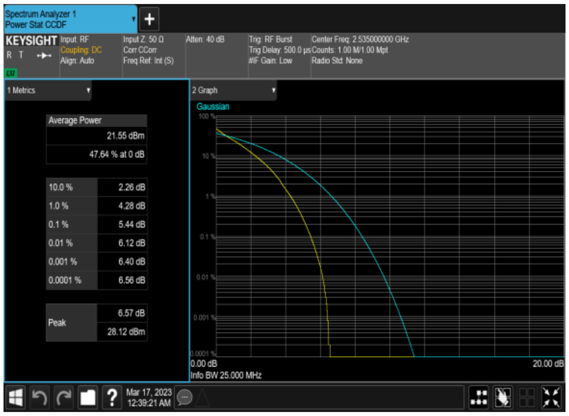
N7(20M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_Mid_CH



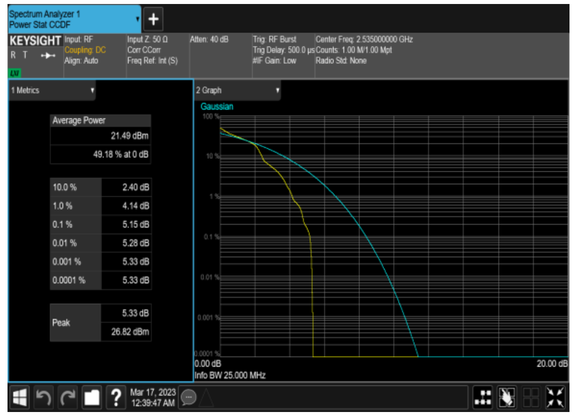
N7(20M)_DFT-s-OFDM_PI_2-BPSK_Edge_1RB_Left_Mid_CH



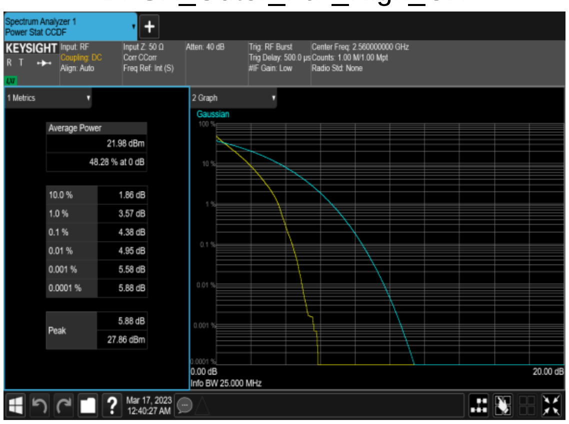
N7(20M)_DFT-s-OFDM_QPSK_Outer_Full_Mid_CH



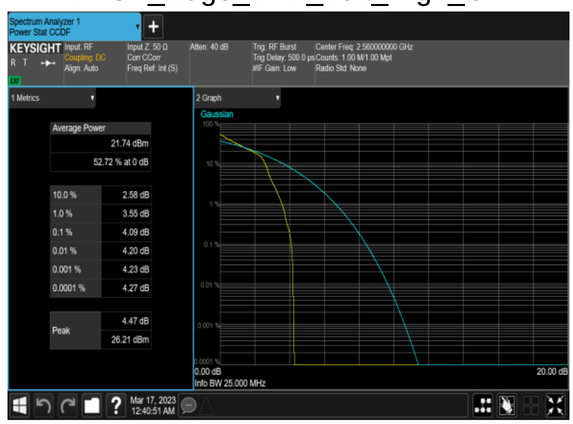
N7(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



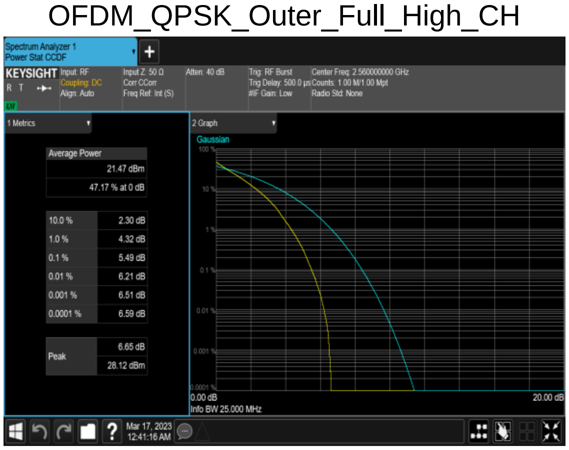
N7(20M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_High_CH



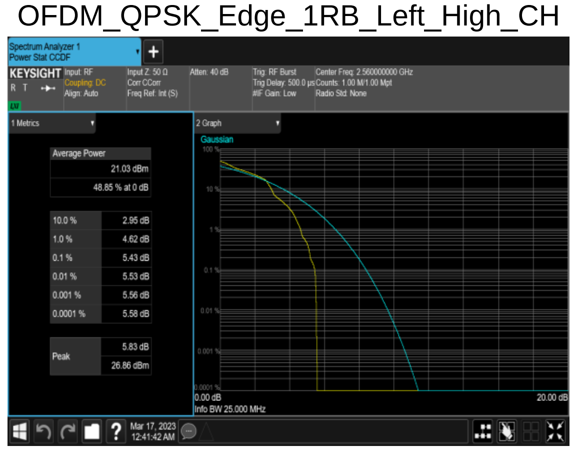
N7(20M)_DFT-s-OFDM_PI_2-BPSK_Edge_1RB_Left_High_CH



N7(20M)_DFT-s-OFDM_QPSK_Outer_Full_High_CH



N7(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH

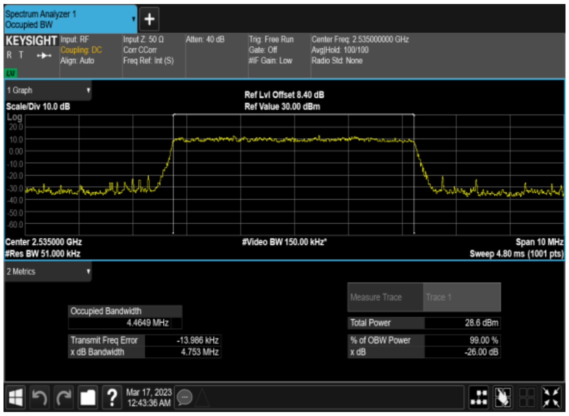


Occupied Bandwidth

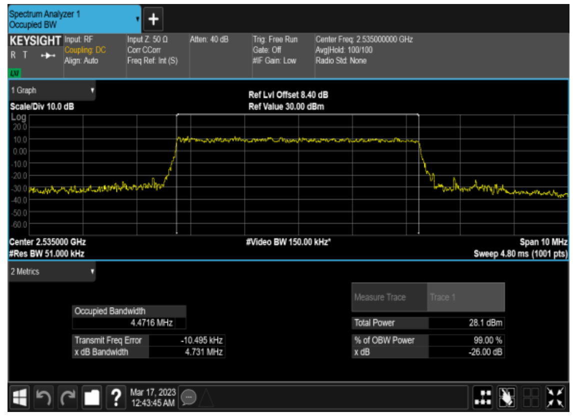
NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	OBW (MHz)	26dB BW (MHz)
7	15	5	507000	2535.0	DFT-s-OFDM PI/2 BPSK	25@0	4.4649	4.753
7	15	5	507000	2535.0	DFT-s-OFDM QPSK	25@0	4.4716	4.731
7	15	5	507000	2535.0	CP-OFDM QPSK	25@0	4.4633	4.831
7	15	5	507000	2535.0	CP-OFDM 16 QAM	25@0	4.4639	4.776
7	15	5	507000	2535.0	CP-OFDM 64 QAM	25@0	4.4751	4.815
7	15	5	507000	2535.0	CP-OFDM 256 QAM	25@0	4.4618	4.778
7	15	10	507000	2535.0	DFT-s-OFDM PI/2 BPSK	50@0	8.8961	9.362
7	15	10	507000	2535.0	DFT-s-OFDM QPSK	50@0	8.8846	9.327
7	15	10	507000	2535.0	CP-OFDM QPSK	52@0	9.2726	9.702
7	15	10	507000	2535.0	CP-OFDM 16 QAM	52@0	9.2925	9.691
7	15	10	507000	2535.0	CP-OFDM 64 QAM	52@0	9.2709	9.688
7	15	10	507000	2535.0	CP-OFDM 256 QAM	52@0	9.3093	9.731
7	15	15	507000	2535.0	DFT-s-OFDM PI/2 BPSK	75@0	13.373	13.94
7	15	15	507000	2535.0	DFT-s-OFDM QPSK	75@0	13.359	13.92
7	15	15	507000	2535.0	CP-OFDM QPSK	79@0	14.087	14.66
7	15	15	507000	2535.0	CP-OFDM 16 QAM	79@0	14.095	14.67
7	15	15	507000	2535.0	CP-OFDM 64 QAM	79@0	14.103	14.66
7	15	15	507000	2535.0	CP-OFDM 256 QAM	79@0	14.065	14.59
7	15	20	507000	2535.0	DFT-s-OFDM PI/2 BPSK	100@0	17.865	18.53
7	15	20	507000	2535.0	DFT-s-OFDM QPSK	100@0	17.883	18.58
7	15	20	507000	2535.0	CP-OFDM QPSK	106@0	18.863	19.66
7	15	20	507000	2535.0	CP-OFDM 16 QAM	106@0	18.915	20.42
7	15	20	507000	2535.0	CP-OFDM 64 QAM	106@0	18.88	19.66
7	15	20	507000	2535.0	CP-OFDM 256 QAM	106@0	18.856	19.6
7	15	25	531000	2535.0	DFT-s-OFDM PI/2 BPSK	128@0	22.886	23.67

7	15	25	531000	2535.0	DFT-s-OFDM QPSK	128@0	22.899	23.66
7	15	25	531000	2535.0	CP-OFDM QPSK	133@0	23.737	24.65
7	15	25	531000	2535.0	CP-OFDM 16 QAM	133@0	23.703	24.5
7	15	25	531000	2535.0	CP-OFDM 64 QAM	133@0	23.769	24.59
7	15	25	531000	2535.0	CP-OFDM 256 QAM	133@0	23.699	24.54
7	15	30	531000	2535.0	DFT-s-OFDM PI/2 BPSK	160@0	28.616	29.66
7	15	30	531000	2535.0	DFT-s-OFDM QPSK	160@0	28.58	29.55
7	15	30	531000	2535.0	CP-OFDM QPSK	160@0	28.568	29.66
7	15	30	531000	2535.0	CP-OFDM 16 QAM	160@0	28.54	29.53
7	15	30	531000	2535.0	CP-OFDM 64 QAM	160@0	28.539	29.6
7	15	30	531000	2535.0	CP-OFDM 256 QAM	160@0	28.54	29.69
7	15	40	531000	2535.0	DFT-s-OFDM PI/2 BPSK	216@0	38.573	39.88
7	15	40	531000	2535.0	DFT-s-OFDM QPSK	216@0	38.519	39.95
7	15	40	531000	2535.0	CP-OFDM QPSK	216@0	38.594	39.97
7	15	40	531000	2535.0	CP-OFDM 16 QAM	216@0	38.526	39.81
7	15	40	531000	2535.0	CP-OFDM 64 QAM	216@0	38.599	40.15
7	15	40	531000	2535.0	CP-OFDM 256 QAM	216@0	38.523	39.89
7	15	50	531000	2535.0	DFT-s-OFDM PI/2 BPSK	270@0	48.145	49.78
7	15	50	531000	2535.0	DFT-s-OFDM QPSK	270@0	48.115	49.92
7	15	50	531000	2535.0	CP-OFDM QPSK	270@0	48.103	49.71
7	15	50	531000	2535.0	CP-OFDM 16 QAM	270@0	48.076	49.72
7	15	50	531000	2535.0	CP-OFDM 64 QAM	270@0	48.146	49.72
7	15	50	531000	2535.0	CP-OFDM 256 QAM	270@0	48.125	49.73

N7(5M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_Mid_CH

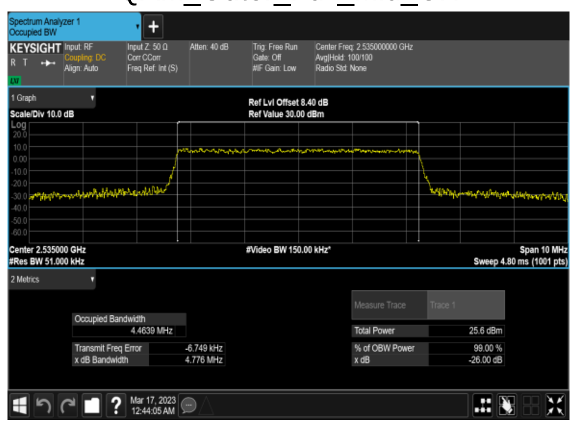


N7(5M)_DFT-s-OFDM_QPSK_Outer_Full_Mid_CH

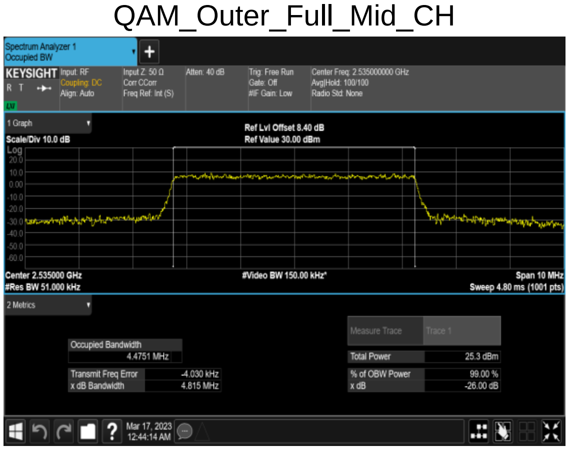


N7(5M)_CP-OFDM_QPSK_Outer_Full_Mid_CH

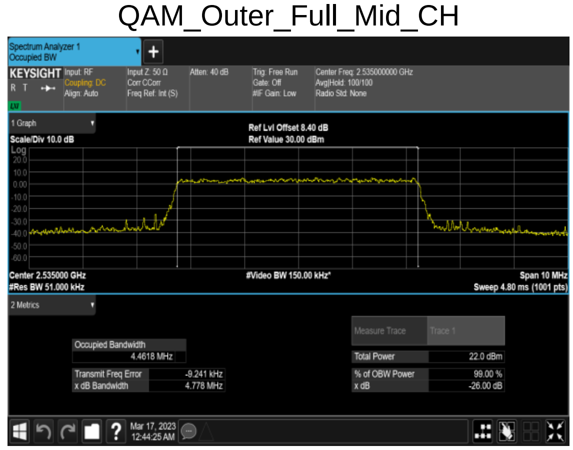
N7(5M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH



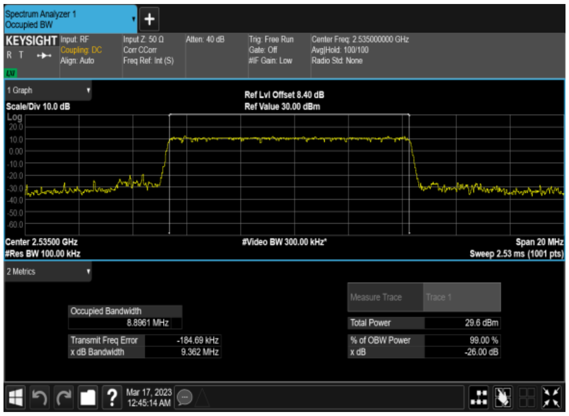
N7(5M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH



N7(5M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH



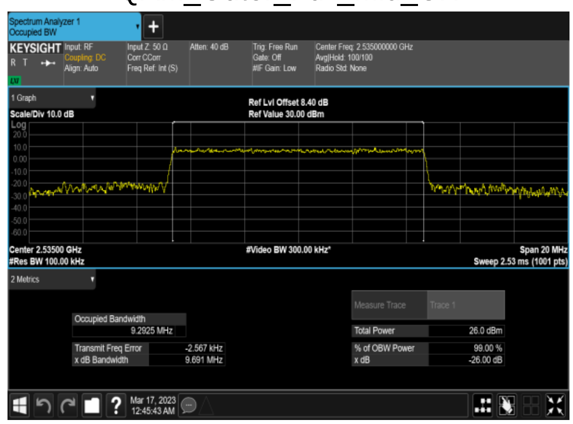
N7(10M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_Mid_CH



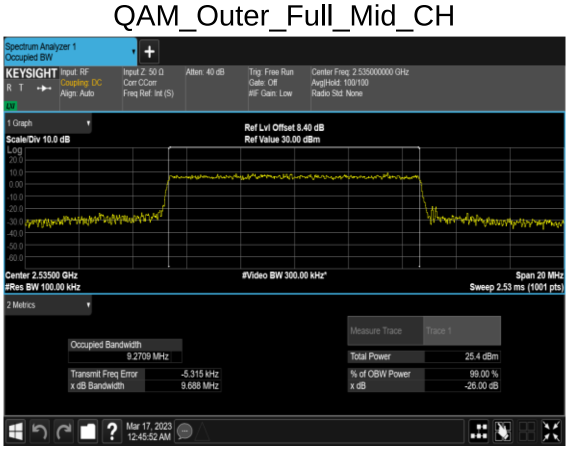
N7(10M)_DFT-s-OFDM_QPSK_Outer_Full_Mid_CH

N7(10M)_CP-OFDM_QPSK_Outer_Full_Mid_CH

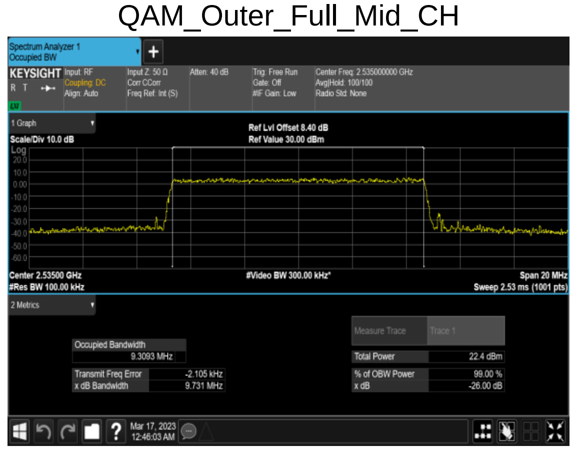
N7(10M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH



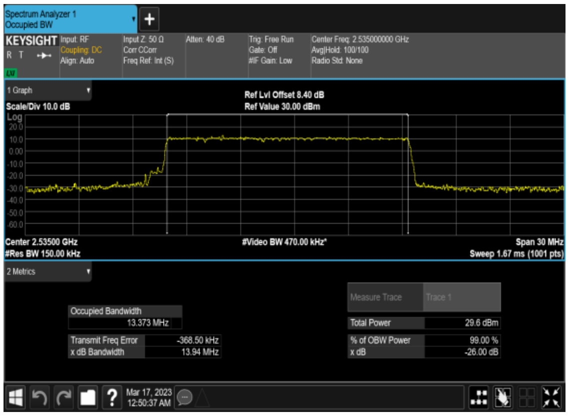
N7(10M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH



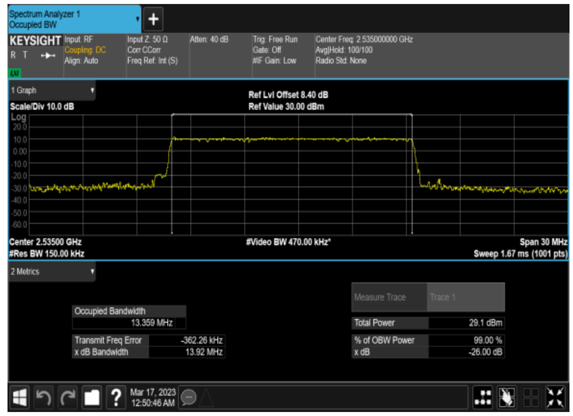
N7(10M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH



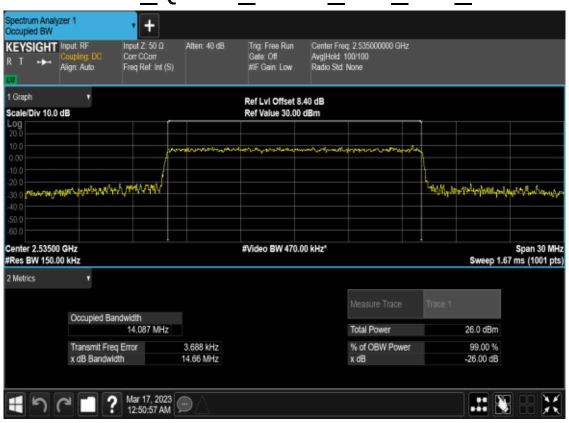
N7(15M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_Mid_CH



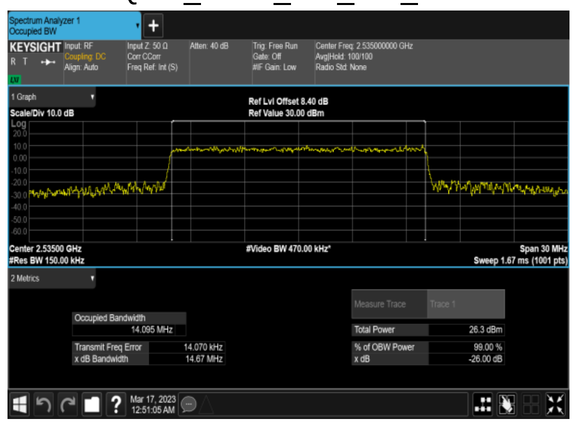
N7(15M)_DFT-s-OFDM_QPSK_Outer_Full_Mid_CH



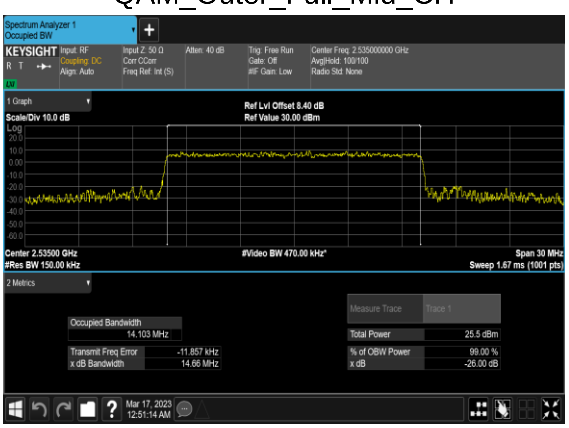
N7(15M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



N7(15M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH



N7(15M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH



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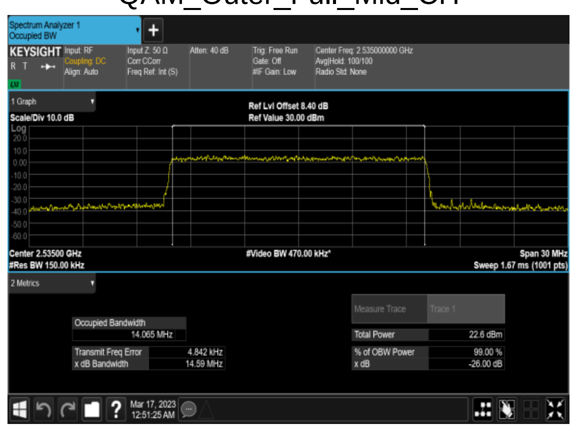
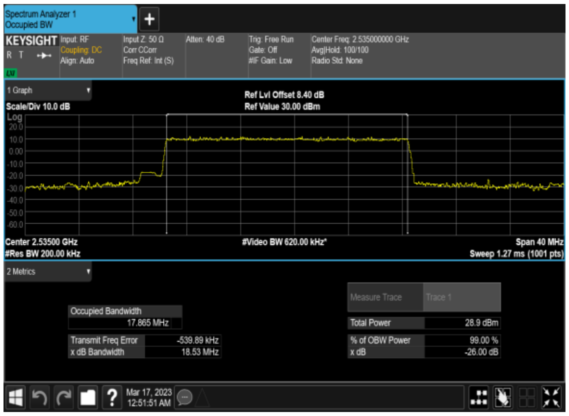
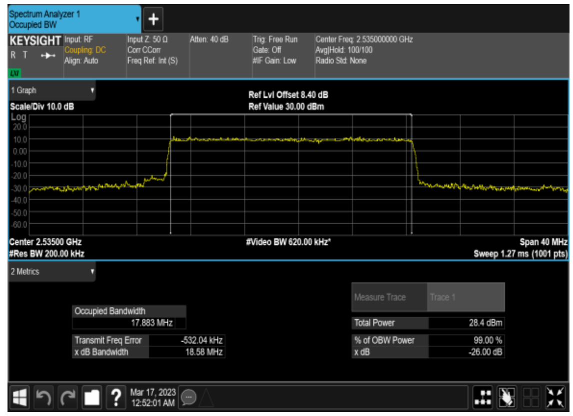


N7(20M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_Mid_CH

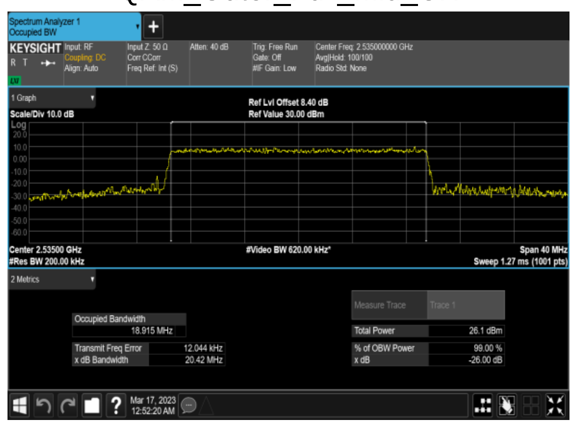


N7(20M)_DFT-s-OFDM_QPSK_Outer_Full_Mid_CH

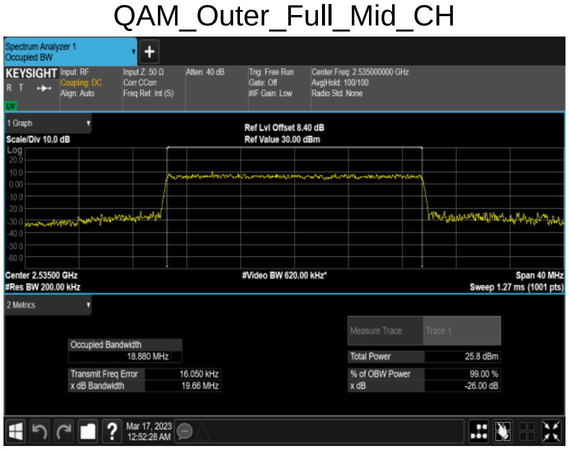


N7(20M)_CP-OFDM_QPSK_Outer_Full_Mid_CH

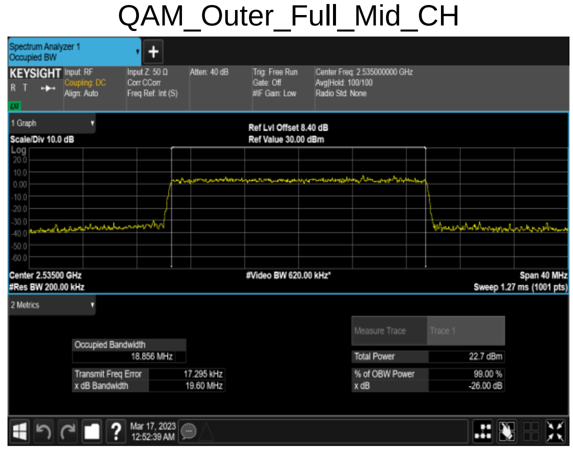
N7(20M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH



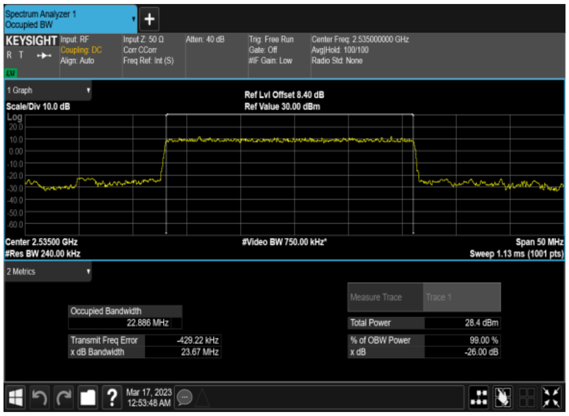
N7(20M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH



N7(20M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH

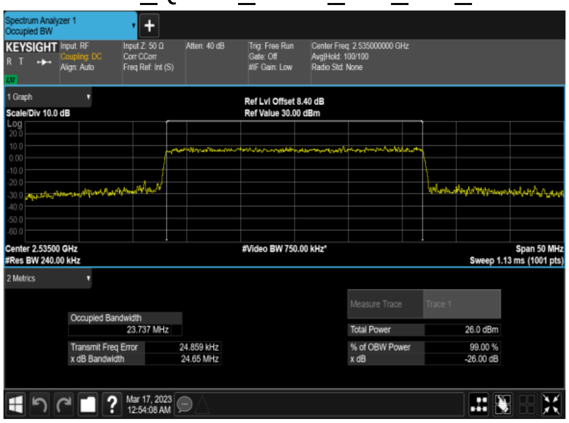


N7(25M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_Mid_CH



N7(25M)_DFT-s-OFDM_QPSK_Outer_Full_Mid_CH

N7(25M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



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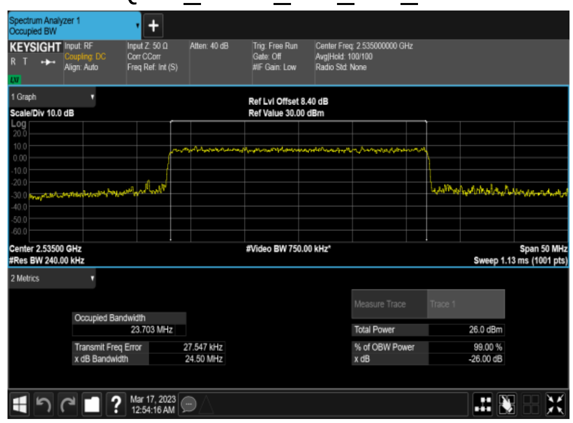
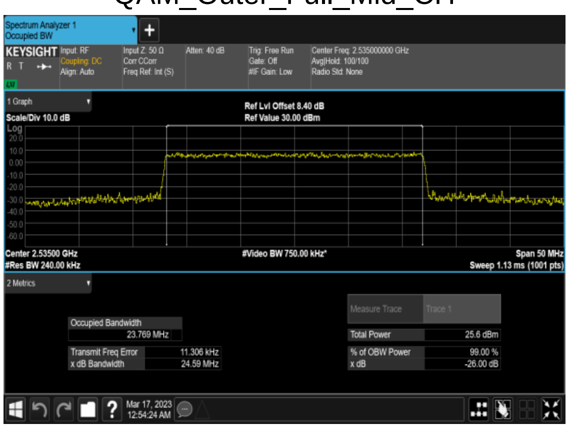
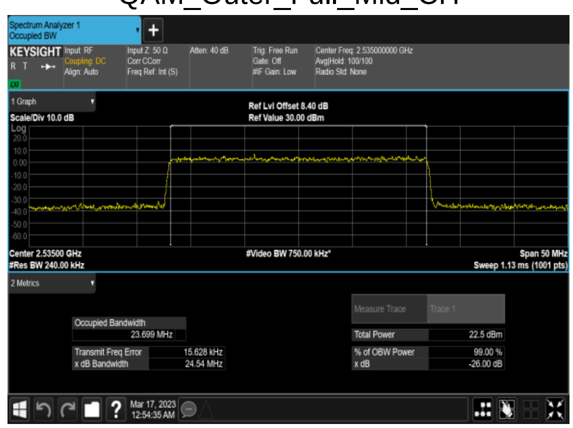


N7(25M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH



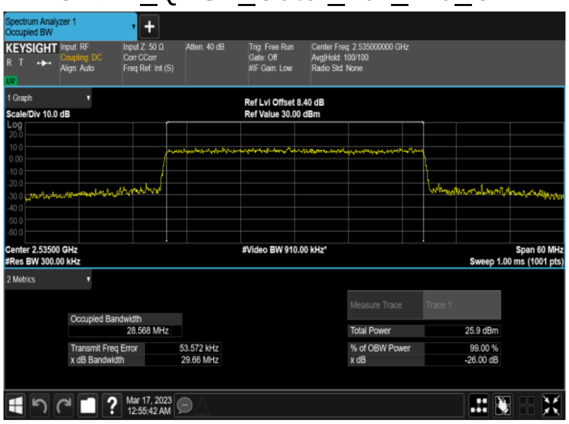
N7(25M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH



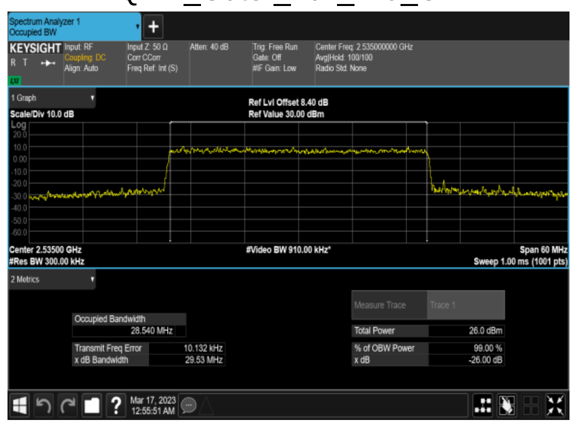
N7(30M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_Mid_CH

N7(30M)_DFT-s-OFDM_QPSK_Outer_Full_Mid_CH

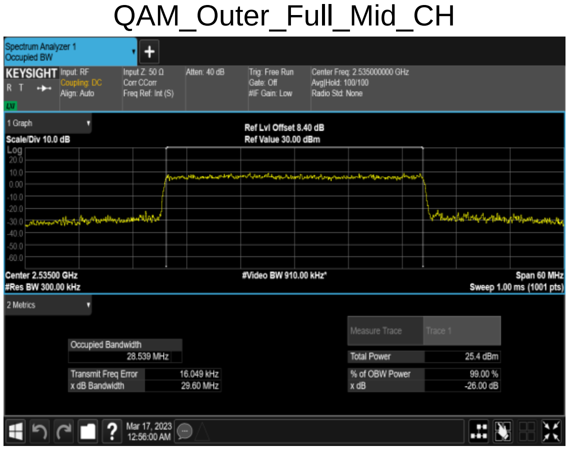
N7(30M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



N7(30M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH



N7(30M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH



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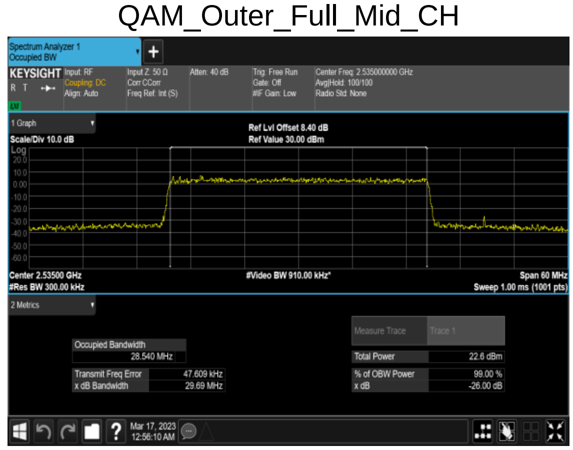
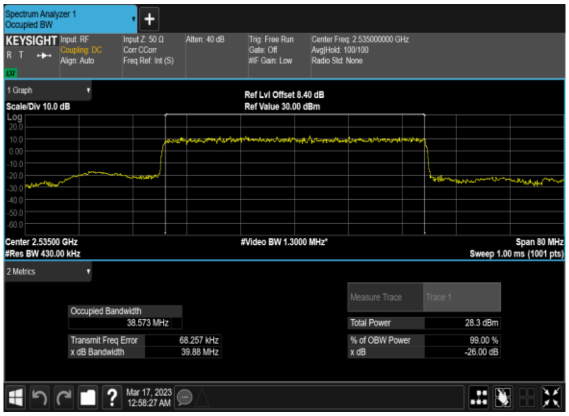


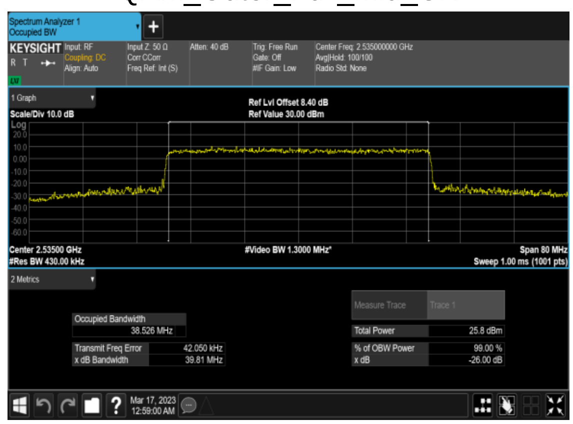
N7(40M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_Mid_CH



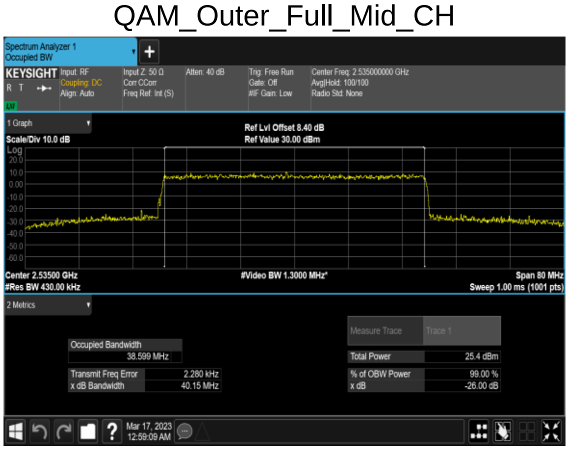
N7(40M)_DFT-s-OFDM_QPSK_Outer_Full_Mid_CH

N7(40M)_CP-OFDM_QPSK_Outer_Full_Mid_CH

N7(40M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH



N7(40M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH



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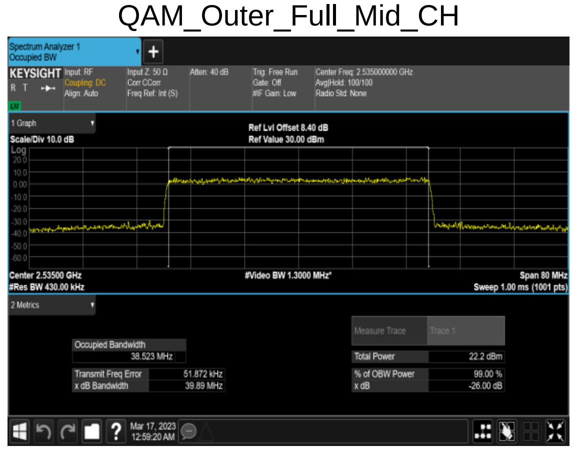
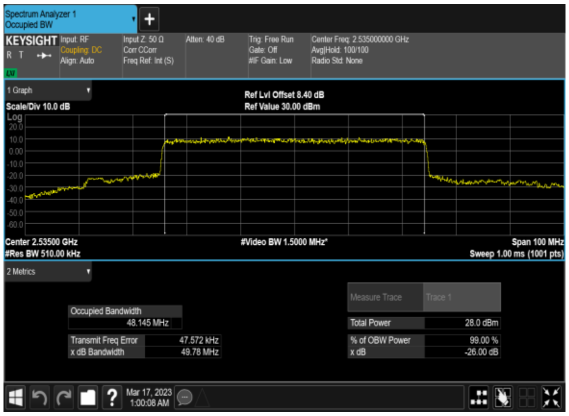


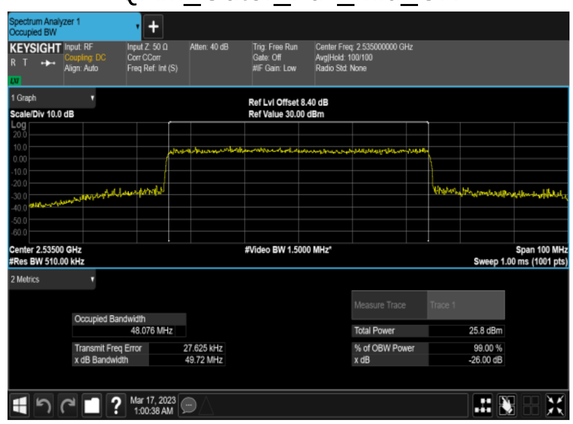
N7(50M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_Mid_CH



N7(50M)_DFT-s-OFDM_QPSK_Outer_Full_Mid_CH

N7(50M)_CP-OFDM_QPSK_Outer_Full_Mid_CH

N7(50M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH



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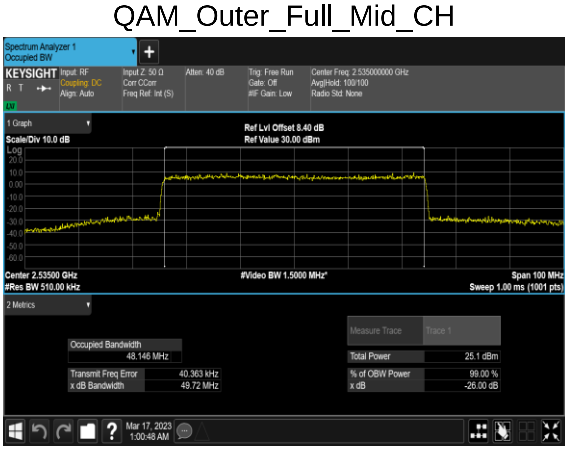

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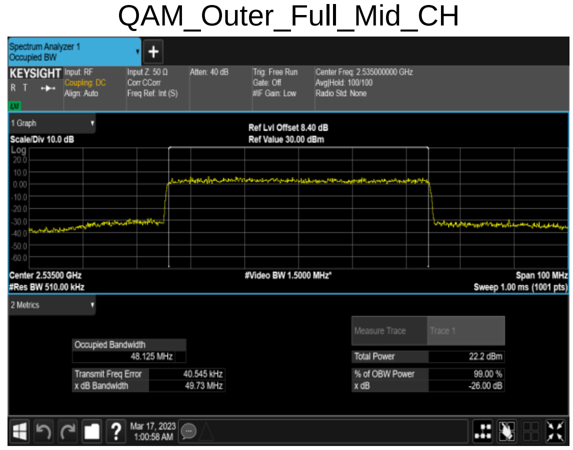


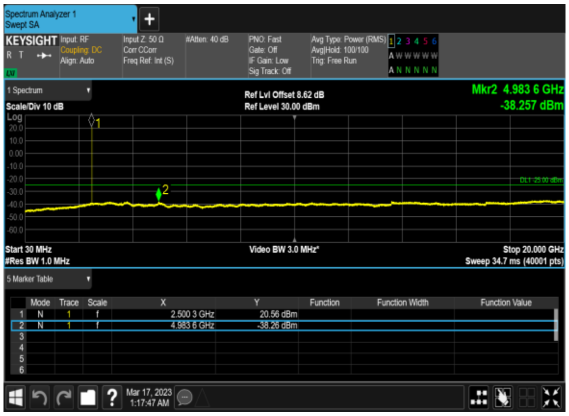
Conducted Spurious Emissions

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result	Verdict
7	15	5	500500	2502.5	DFT-s-OFDM BPSK	1@0	see graph	**---**
7	15	5	500500	2502.5	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
7	15	5	500500	2502.5	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
7	15	5	500500	2502.5	DFT-s-OFDM QPSK	1@0	see graph	**---**
7	15	5	500500	2502.5	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
7	15	5	500500	2502.5	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
7	15	5	507000	2535.0	DFT-s-OFDM BPSK	1@0	see graph	**---**
7	15	5	507000	2535.0	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
7	15	5	507000	2535.0	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
7	15	5	507000	2535.0	DFT-s-OFDM QPSK	1@0	see graph	**---**
7	15	5	507000	2535.0	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
7	15	5	507000	2535.0	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
7	15	5	513500	2567.5	DFT-s-OFDM BPSK	1@0	see graph	**---**
7	15	5	513500	2567.5	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
7	15	5	513500	2567.5	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
7	15	5	513500	2567.5	DFT-s-OFDM QPSK	1@0	see graph	**---**
7	15	5	513500	2567.5	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
7	15	5	513500	2567.5	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
7	15	20	502000	2510.0	DFT-s-OFDM BPSK	1@0	see graph	**---**
7	15	20	502000	2510.0	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
7	15	20	502000	2510.0	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
7	15	20	502000	2510.0	DFT-s-OFDM QPSK	1@0	see graph	**---**
7	15	20	502000	2510.0	DFT-s-OFDM QPSK	1@0	see graph	**PASS**

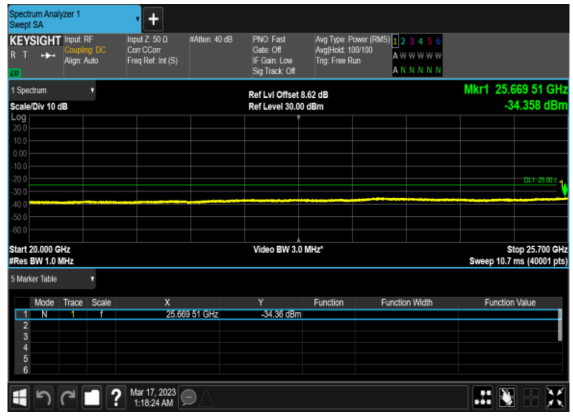
7	15	20	502000	2510.0	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
7	15	20	507000	2535.0	DFT-s-OFDM BPSK	1@0	see graph	**---**
7	15	20	507000	2535.0	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
7	15	20	507000	2535.0	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
7	15	20	507000	2535.0	DFT-s-OFDM QPSK	1@0	see graph	**---**
7	15	20	507000	2535.0	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
7	15	20	507000	2535.0	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
7	15	20	512000	2560.0	DFT-s-OFDM BPSK	1@0	see graph	**---**
7	15	20	512000	2560.0	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
7	15	20	512000	2560.0	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
7	15	20	512000	2560.0	DFT-s-OFDM QPSK	1@0	see graph	**---**
7	15	20	512000	2560.0	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
7	15	20	512000	2560.0	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
7	15	50	505000	2525.0	DFT-s-OFDM BPSK	1@0	see graph	**---**
7	15	50	505000	2525.0	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
7	15	50	505000	2525.0	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
7	15	50	505000	2525.0	DFT-s-OFDM QPSK	1@0	see graph	**---**
7	15	50	505000	2525.0	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
7	15	50	505000	2525.0	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
7	15	50	507000	2535.0	DFT-s-OFDM BPSK	1@0	see graph	**---**
7	15	50	507000	2535.0	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
7	15	50	507000	2535.0	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
7	15	50	507000	2535.0	DFT-s-OFDM QPSK	1@0	see graph	**---**
7	15	50	507000	2535.0	DFT-s-OFDM QPSK	1@0	see graph	**PASS**

7	15	50	507000	2535.0	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
7	15	50	509000	2545.0	DFT-s-OFDM BPSK	1@0	see graph	**---**
7	15	50	509000	2545.0	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
7	15	50	509000	2545.0	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
7	15	50	509000	2545.0	DFT-s-OFDM QPSK	1@0	see graph	**---**
7	15	50	509000	2545.0	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
7	15	50	509000	2545.0	DFT-s-OFDM QPSK	1@0	see graph	**PASS**

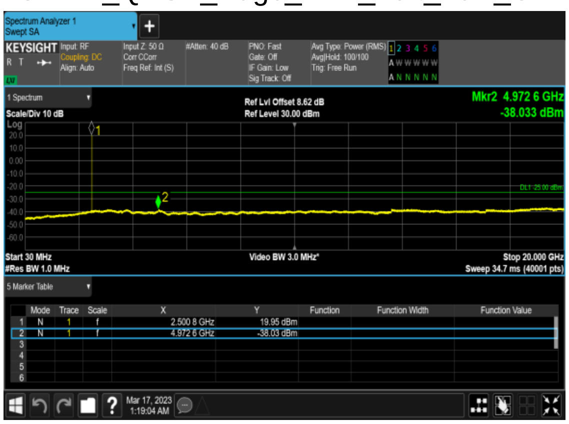
N7(5M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



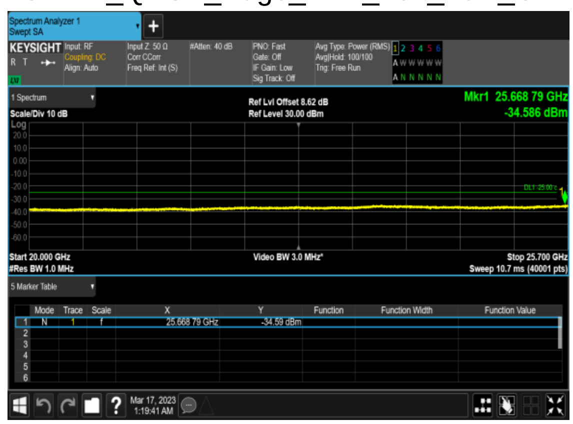
N7(5M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



N7(5M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH

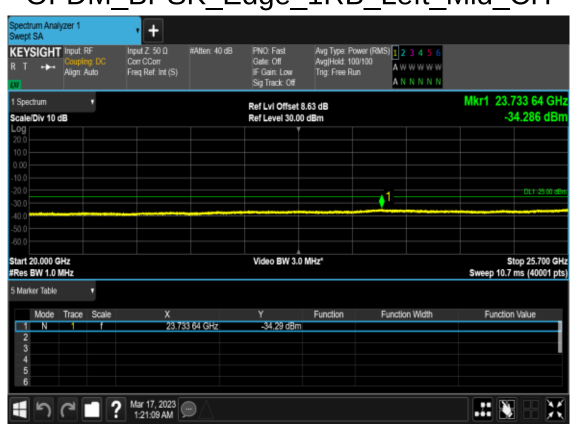


N7(5M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH

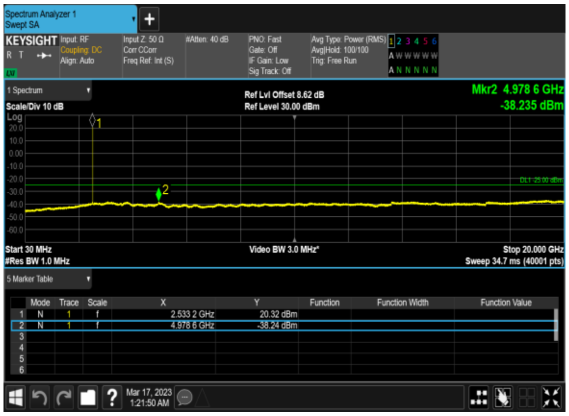


N7(5M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH

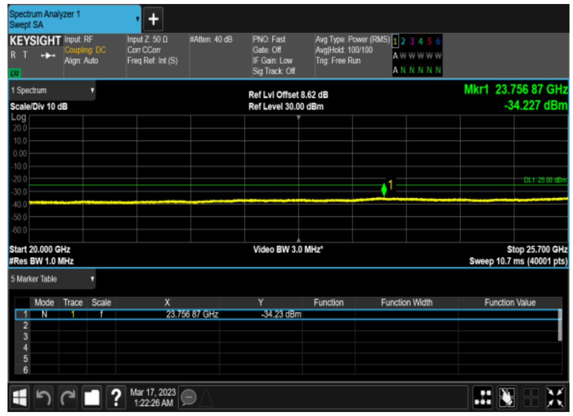
N7(5M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH



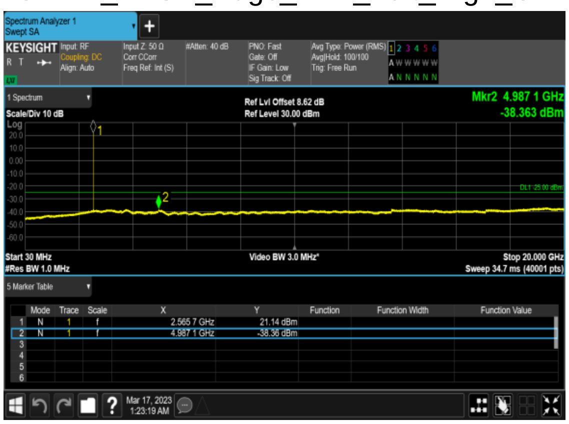
N7(5M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



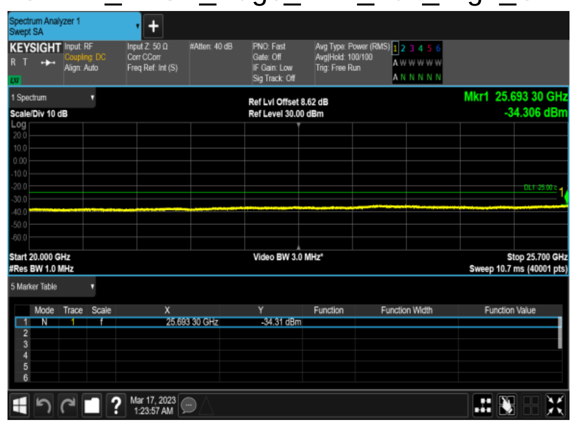
N7(5M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



N7(5M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_High_CH

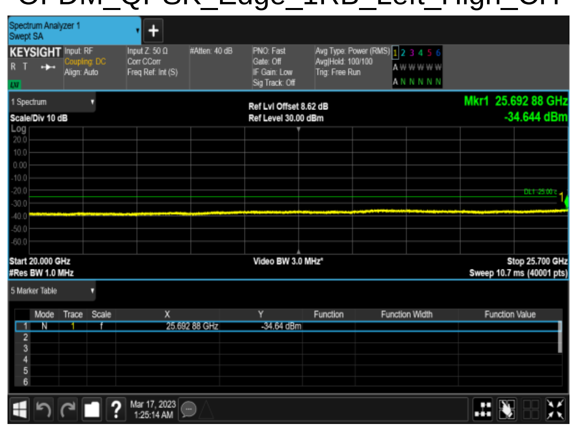


N7(5M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_High_CH

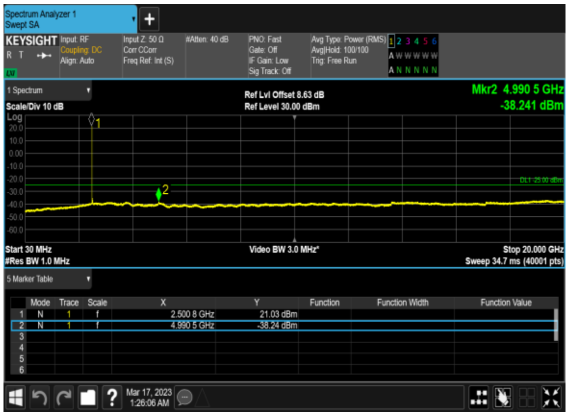


N7(5M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH

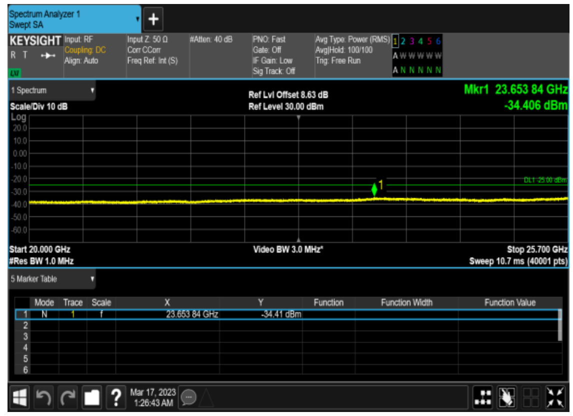
N7(5M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH



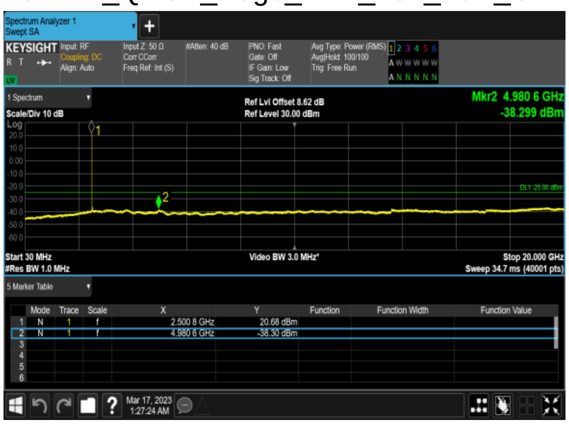
N7(20M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



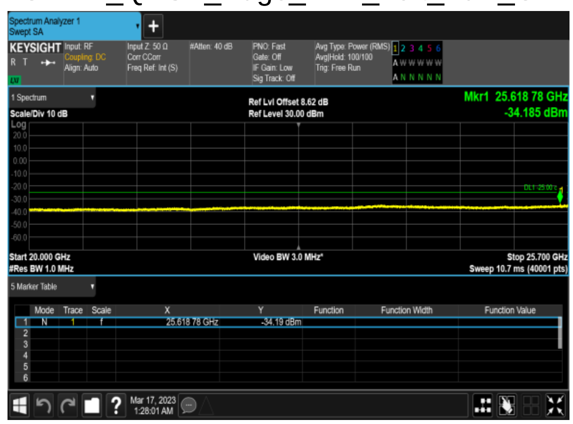
N7(20M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



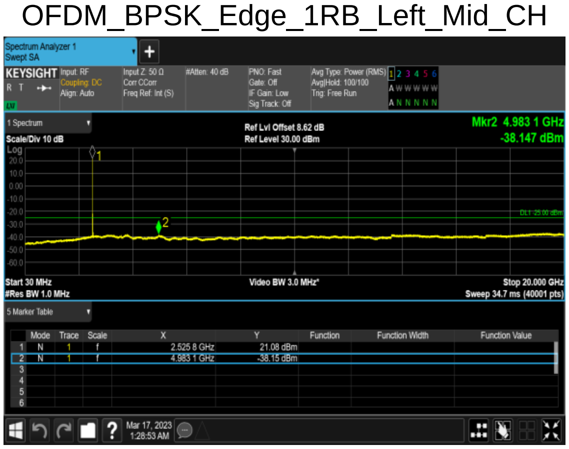
N7(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



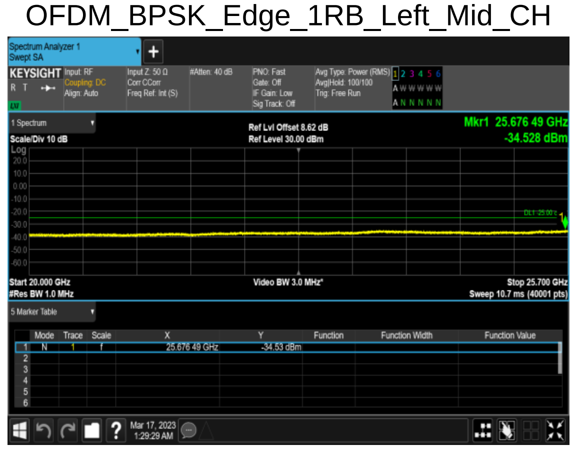
N7(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



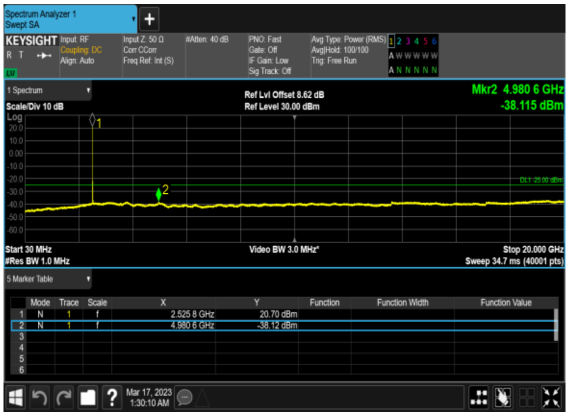
N7(20M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH



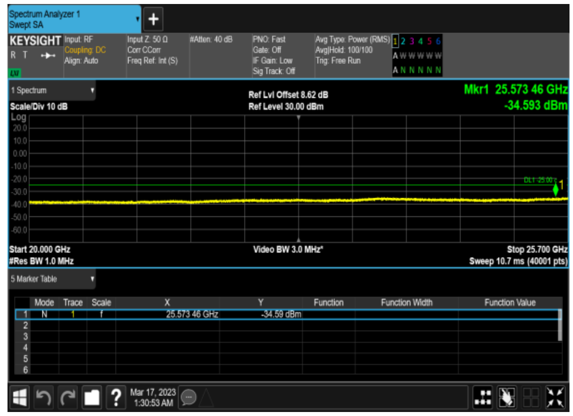
N7(20M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH



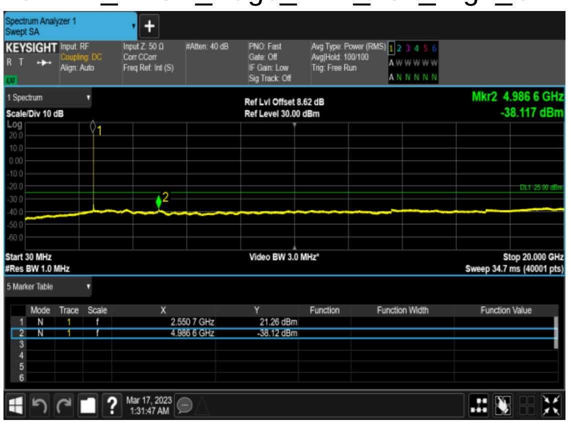
N7(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



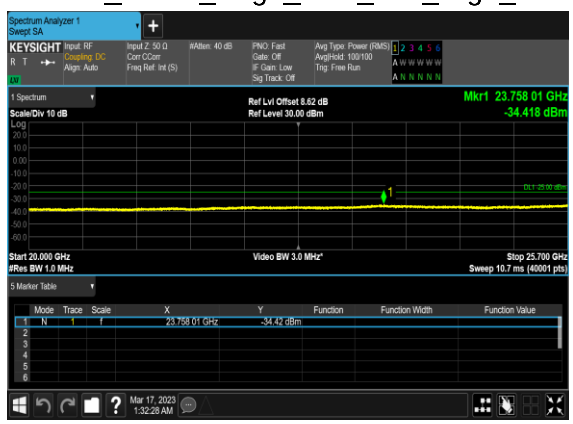
N7(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



N7(20M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_High_CH

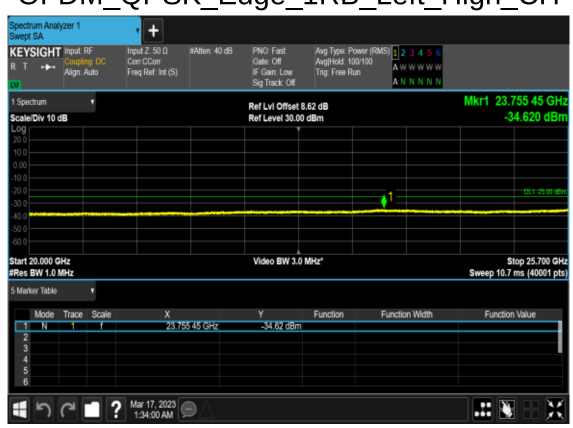


N7(20M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_High_CH

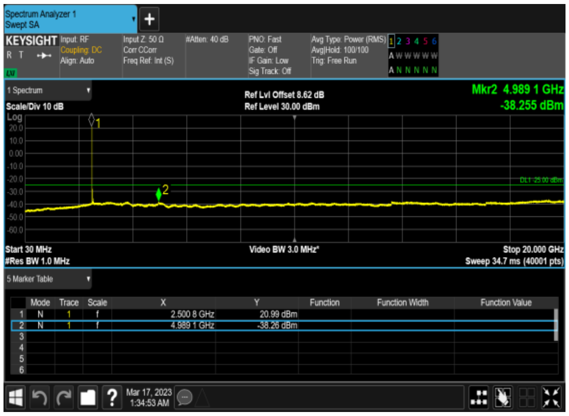


N7(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH

N7(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH



N7(50M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



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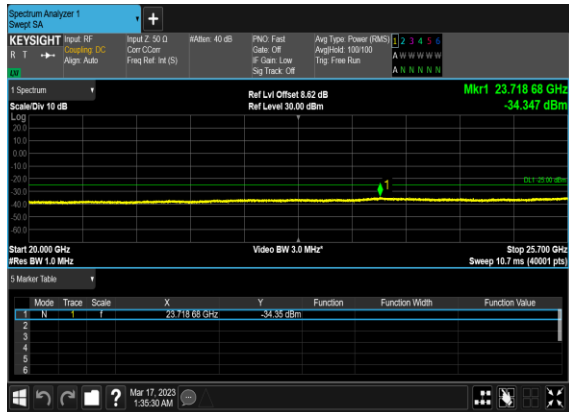
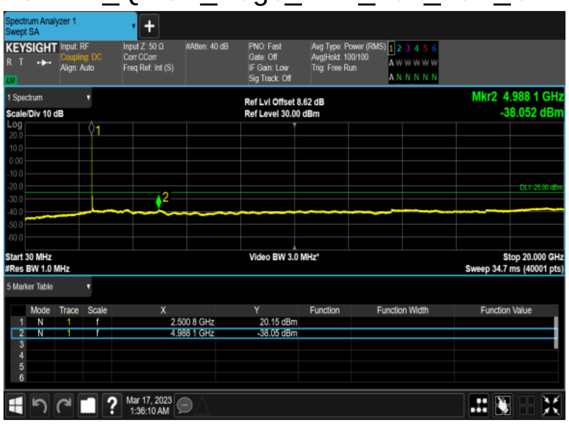
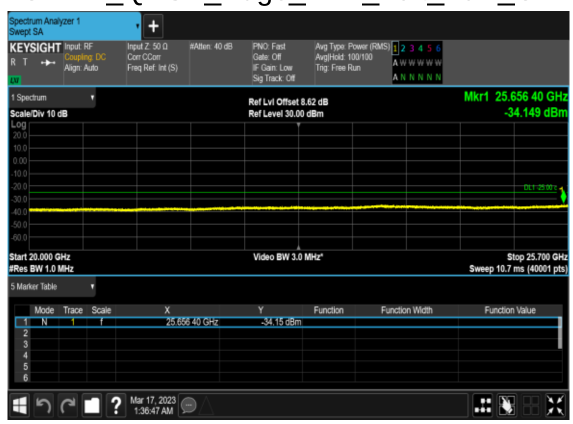


N7(50M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



N7(50M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



N7(50M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH

N7(50M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH