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TEST REPORT

of

FCC Part 2 Subpart J and Part 27 Subpart C

FCC ID: BEJTM16FNROBM0

Equipment Under Test	:	Telematics Module
Model Name	:	TM16FNROBM0
Variant Model Name(s)	:	-
Applicant	:	LG Electronics USA, Inc.
Manufacturer	:	LG Electronics Inc.
Date of Receipt	:	2024.05.27
Date of Test(s)	:	2024.06.13 ~ 2024.09.10
Date of Issue	:	2024.09.11

In the configuration tested, the EUT complied with the standards specified above. This test report does not assure KOLAS accreditation.

1) The results of this test report are effective only to the items tested.
2) The SGS Korea is not responsible for the sampling, the results of this test report apply to the sample as received.
3) This test report cannot be reproduced, except in full, without prior written permission of the Company.
4) The data marked ※ in this report was provided by the customer and may affect the validity of the test results.
We are responsible for all the information of this test report except for the data(※) provided by the customer.

Tested by: Dave Kim

Technical Manager: Jinhyoung Cho

SGS Korea Co., Ltd. Gunpo Laboratory

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1. General Information

1.1. Testing Laboratory

SGS Korea Co., Ltd. (Gunpo Laboratory)
- 10-2, LS-ro 182beon-gil, Gunpo-si, Gyeonggi-do, Korea, 15807
- 4, LS-ro 182beon-gil, Gunpo-si, Gyeonggi-do, Korea, 15807
- Designation number: KR0150

All SGS services are rendered in accordance with the applicable SGS conditions of service available on request and accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx.

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1.2. Details of Applicant

Applicant : LG Electronics USA, Inc.
Address : 111 Sylvan Avenue, North Building, Englewood Cliffs, New Jersey, United States, 07632
Contact Person : Kim, David
Phone No. : +1 201 470 2696

1.3. Details of Manufacturer

Company : LG Electronics Inc.
Address : 128, Yeoui-daero, Yeongdeungpo-gu, Seoul, Republic of Korea, 07336

1.4. Description of EUT

Kind of Product	Telematics Module		
Model Name	TM16FNROBM0		
Serial Number	357286160005090		
Power Supply	DC 4.1 V		
Rated Power	NR Band 7, 41, 77, 78: 23 ㏈m		
Frequency Range	NR Band 7: 2 500 ㎒ ~ 2 570 ㎒ NR Band 41: 2 496 ㎒ ~ 2 690 ㎒ NR Band 77: 3 450 ㎒ ~ 3 550 ㎒ NR Band 77: 3 700 ㎒ ~ 3 980 ㎒ NR Band 78: 3 450 ㎒ ~ 3 550 ㎒ NR Band 78: 3 700 ㎒ ~ 3 800 ㎒		
Modulation Technique	BPSK, QPSK, 16QAM, 64QAM, 256QAM		
Antenna Type	Ant. 1: PIFA Antenna	Ant. 2: PIFA Antenna	Ant. 3: PIFA Antenna
Antenna Gain※	Refer to the clause 1.15		
H/W Version	Rev.D		
S/W Version	IN25XA03		

1.5. Test Equipment List

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Interval	Cal. Due
Spectrum Analyzer	R&S	FSV30	100955	Mar. 08, 2024	Annual	Mar. 08, 2025
Spectrum Analyzer	R&S	FSW43	100637	Apr. 08, 2024	Annual	Apr. 08, 2025
Spectrum Analyzer	Agilent	N9020A	MY53421758	Nov. 27, 2024	Annual	Nov. 27, 2025
Spectrum Analyzer	Agilent	N9030A	US51350132	Sep. 01, 2023	Annual	Sep. 01, 2024
Signal Generator	R&S	SMA100B	106887	Oct. 06, 2023	Annual	Oct. 06, 2024
DC Power Supply	R&S	HMP2020	102133	Apr. 23, 2024	Annual	Apr. 23, 2025
Communication test station	Anritsu	MT8000A	6261867312	Apr. 08, 2024	Annual	Apr. 08, 2025
Communication Analyzer	Anritsu	MT8821C	6262192291	Feb. 08, 2024	Annual	Feb. 08, 2025
Temperature Chamber	ESPEC CORP.	PL-2J	15004184	Jun. 03, 2024	Annual	Jun. 03, 2025
BRIDGE COUPLER	MARKI MICROWAVE INC	CBR16-0012	1542	May 13, 2024	Annual	May 13, 2025
Directional Coupler	KRYTAR	152613	122660	Jul. 09, 2024	Annual	Jul. 09, 2025
Power Sensor	Anritsu	MA2411B	1207272	May 29, 2024	Annual	May 29, 2025
Power Sensor	Anritsu	ML2495A	1223004	May 29, 2024	Annual	May 29, 2025
Power Splitter	Weinschel	1534	500	May 23, 2024	Annual	May 23, 2025
Low Pass Filter	Mini-Circuits	NLP-1200+	V 8979400903-1	May 17, 2024	Annual	May 17, 2025
High Pass Filter	Wainwright Instrument GmbH	WLKX10-3555-4500-26500-40CD	1	Nov. 03, 2023	Annual	Nov. 03, 2024
High Pass Filter	Wainwright Instrument GmbH	WHKX3.0/18G-6SS	21	Jun. 07, 2024	Annual	Jun. 07, 2025
High Pass Filter	Wainwright Instrument GmbH	WHNX7.5/26.5G-6SS	11	Oct. 17, 2023	Annual	Oct. 17, 2024
Preamplifier	H.P.	8447F	2944A03909	Aug. 09, 2024	Annual	Aug. 09, 2025
Preamplifier	R&S	SCU 18F	101058	Dec. 07, 2023	Annual	Dec. 07, 2024
Preamplifier	MITEQ Inc.	JS44-18004000-35-8P	1546891	Oct. 06, 2023	Annual	Oct. 06, 2024
Test Receiver	R&S	ESU26	100109	Jan. 16, 2024	Annual	Jan. 16, 2025
Loop Antenna	Schwarzbeck Mess-Elektronik	FMZB 1519	1519-039	Aug. 21, 2023	Biennial	Aug. 21, 2025
Bilog Antenna	Schwarzbeck Mess-Elektronik	VULB9163	9163-396	Apr. 02, 2024	Biennial	Apr. 02, 2026
Horn Antenna	R&S	HF906	100326	Feb. 19, 2024	Annual	Feb. 19, 2025
Horn Antenna	Schwarzbeck Mess-Elektronik	BBHA 9170	9170-540	Dec. 05, 2023	Annual	Dec. 05, 2024
Antenna Master	Innco systems GmbH	MA4640-XP-ET	MA4640/536/383 30516/L	N.C.R.	N/A	N.C.R.
Turn Table	Innco systems GmbH	DS 1200S	N/A	N.C.R.	N/A	N.C.R.
Controller	Innco systems GmbH	CONTROLLER CO3000-4P	CO3000/963/383 30516/L	N.C.R.	N/A	N.C.R.
Anechoic Chamber	SY Corporation	L × W × H (9.6 m × 6.4 m × 6.6 m)	N/A	N.C.R.	N/A	N.C.R.
Coaxial Cable	RADIALL	TESTPRO 3	182284	Apr. 12, 2024	Semi-Annual	Oct. 12, 2024
Coaxial Cable	RADIALL	TESTPRO 3	182290	Apr. 12, 2024	Semi-Annual	Oct. 12, 2024
Coaxial Cable	RADIALL	TESTPRO 3	182292	Apr. 12, 2024	Semi-Annual	Oct. 12, 2024
Coaxial Cable	SENSORVIEW	NMST-13A26-NMST-5 m	TPC2402190004	Apr. 03, 2024	Semi-Annual	Oct. 03, 2024
Coaxial Cable	SENSORVIEW	NMST-13A26-NMST-10 m	TPC2402190001	Apr. 03, 2024	Semi-Annual	Oct. 03, 2024

Note;
- For equipment listed above that has a calibration date or calibration due date that falls within the test date range, care was taken to ensure that this equipment was used after the calibration date and before the calibration due date.

1.6. Summary of Test Results

The EUT has been tested according to the following specifications:

APPLIED STANDARD: FCC Part 2 and 27		
Section(s) in FCC	**Test Item**	**Result**
§2.1046 §27.50(h)(2) §27.50(j)(3) §27.50(k)(3)	E.R.P. / E.I.R.P.	Complied
§27.53(m)(4) §27.53(l)(2) §27.53(n)(2)	Radiated Spurious Emission	Complied
§2.1046	Conducted Output Power	Complied
§2.1049	Occupied Bandwidth	Complied
§27.50(j)(4) §27.50(k)(4)	Peak-Average Ratio	Complied
§27.53(m)(4) §27.53(l)(2) §27.53(n)(2)	Spurious Emission at Antenna Terminal	Complied
§27.53(m)(4) §27.53(l)(2) §27.53(n)(2)	Band Edge and Emission Mask	Complied
§2.1055 §27.54	Frequency Stability	Complied

1.7. Sample Calculation for Offset

Where relevant, the following sample calculation is provided:

1.7.1. Conducted Test

Offset value (㏈) = Directional Coupler (㏈) + Cable loss (㏈)

1.7.2. Radiation test

- E.I.R.P. (㏈ m) = Measured level (㏈㎶) + Antenna factor (㏈/m) + Cable loss (㏈) + 20 Log D - 104.8; where D is the measurement distance in meters.
- E.R.P. (㏈ m) = E.I.R.P. (㏈ m) - 2.15 (㏈)

1.8. Manufacturer Declaration

The EUT has three antennas, antennas 1 and 2 are the main antennas, and antenna 3 can be switched to the main antenna. Each antenna can't transmit simultaneously.

1.9. Device capabilities

This device contains the following capabilities;

NR Band 78 (3 450 ㎒ ~ 3 550 ㎒) is covered by NR Band 77 (3 450 ㎒ ~ 3 550 ㎒) due to overlapping frequency range, same maximum tune-up limit and same channel bandwidth. Therefore test data provided in this report covers NR Band 78 as well as Band 77.

NR Band 78 (3 700 ㎒ ~ 3 800 ㎒) is covered by NR Band 77 (3 700 ㎒ ~ 3 980 ㎒) due to overlapping frequency range, same maximum tune-up limit and same channel bandwidth. Therefore test data provided in this report covers NR Band 78 as well as Band 77.

1.10. ENDC Configuration

NR Band	SCS (㎑)	Bandwidth (㎒)	Waveform	Modulation	ENDC LTE Band
n77	30	20, 30, 40, 50, 60, 70, 80, 90, 100	DFT-S-OFDM, CP-OFDM	BPSK, QPSK, 16QAM, 64QAM, 256QAM	41
n78	30	20, 30, 40, 50, 60, 70, 80, 90, 100			5, 7, 38, 41

1.11. Worst Case Configuration and Mode

The worst-case is based on the conducted output power measurement investigation results. All testing was performed using BPSK, QPSK, 16QAM, 64QAM and 256QAM modulations. If both SA and NSA were supported, SA was tested as worst case and NSA was tested only radiated spurious emission for worst conducted output power combination.
On ENDC mode, only radiated spurious emission were tested as worst case for worst conducted output power combination.
However, the spurious radiated emission and spurious at antenna terminal were only performed on bandwidth and RB offset (with RB size 1) with the highest conducted power.

The peak to average ratio were tested only 256QAM modulation as worst case.

The radiation test of the EUT was investigated in three orthogonal orientations X, Y, and Z, and the worst case data is reported.

1.11. Measurement Configuration

Test Items	Band	Test Channel			Bandwidth (MHz)													Modulation DFT-S-OFDM					Modulation CP-OFDM				RB #		
		Low	Mid	High	5	10	15	20	25	30	40	50	60	70	80	90	100	BPSK	QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM	1	Half	Full
Conducted Output Power	n7	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	V
	n77/n78	V	V	V				V		V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	-	-	V	V	V
Frequency Stability	n7	-	V	-	V	-	-	-										-	V	-	-	-	-	-	-	-	-	-	V
	n41	-	V	-				V		-	-	-	-	-	-	-	-	-	V	-	-	-	-	-	-	-	-	-	V
	n77/n78	-	V	-				V		-	-	-	-	-	-	-	-		V	-	-	-	-	-	-	-	-	-	V
Occupied Bandwidth	n7	-	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
	n77/n78	-	V	-				V		V	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	-	-	-	V	-	-	V
	n41	V	V	V				V		V	V	V	V	V	V	V	V	-	-	-	-	V	-	-	-	V	-	-	V
	n77/n78	V	V	V				V		V	V	V	V	V	V	V	V	-	-	-	-	V	-	-	-	V	-	-	V
Band edge	n7	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
	n77/n78	V	-	V				V		V	V	V	V	V	V	V	V	-	V	V	-	-	V	V	-	-	V	-	V
Spurious at antenna terminal & Radiated Spurious Emissions	n7	V	V	V	Worst case																								
	n41	V	V	V	Worst case																								
	n77/n78	V	V	V	Worst case																								

ENDC

Test Items	Band	Test Channel			Bandwidth (MHz)													Modulation DFT-S-OFDM					Modulation CP-OFDM				RB #		
		Low	Mid	High	5	10	15	20	25	30	40	50	60	70	80	90	100	BPSK	QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM	1	Half	Full
Conducted Output Power	n77	V	V	V				V		V	V	V	V	V	V	V	V	V	V	-	-	-	-	-	-	-	V	-	-
	n78	V	V	V				V		V	V	V	V	V	V	V	V	V	V	-	-	-	-	-	-	-	V	-	-
Spurious Radiated Emission	n77	V	V	V	Worst case																								
	n78	V	V	V	Worst case																								

Note;

- All measurement was performed with 1RB or FULL RB or both, we chosen RB condition for each test items as worst case.

Radiated Emission Test

NR Band	SCS (㎑)	Bandwidth (㎒)	Modulation	Resource Block Allocation
				RBs allocated
n7	15	20	DFT-S OFDM - QPSK	1
n41	30	100	DFT-S OFDM - QPSK	1
n77/78 Low Band	30	100	DFT-S OFDM - QPSK	1
n77/78 High Band	30	100	DFT-S OFDM - QPSK	1

ENDC

NR Band	SCS (㎑)	Bandwidth (㎒)	Modulation	Resource Block Allocation
				RBs allocated
41A-n77A	30	15-100	DFTS OFDM - QPSK	1
7A-n78A	30	20-100	DFTS OFDM - QPSK	1

1.13. Measurement Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

Parameter	Uncertainty	
Conducted Output Power	0.33 dB	
Occupied Bandwidth	0.05 ㎒	
Conducted Spurious Emissions	0.99 dB	
Peak to Average Ratio	0.66 dB	
Frequency Stability	116 ㎐	
Radiated Emission, 9 ㎑ to 30 ㎒	H	3.60 dB
	V	3.60 dB
Radiated Emission, below 1 ㎓	H	4.60 dB
	V	4.90 dB
Radiated Emission, above 1 ㎓	H	3.90 dB
	V	3.80 dB

All measurement uncertainty values are shown with a coverage factor of *k*=2 to indicate a 95 % level of confidence.

1.14. Test Report Revision

Revision	Report Number	Date of Issue	Description
0	F690501-RF-RTL005372	2024.09.11	Initial

1.15. Antenna Information

Ant. No	Ant. Type	Support Band			
		GSM	WCDMA	LTE	NR
Ant.1	PIFA	850, 1900	Ⅱ, Ⅳ, Ⅴ	2, 4, 5, 7, 12, 17, 25, 26, 38, 41	7, 41, 77, 78
Ant.2	PIFA				77, 78
Ant.3	PIFA	850, 1900	Ⅱ, Ⅳ, Ⅴ	2, 4, 5, 7, 12, 17, 25, 26, 38, 41	7, 41, 77, 78

Band	Operating Frequency (㎒)	Antenna Peak Gain (dBi)		
		Ant. 1	Ant. 2	Ant. 3
GSM 1900 WCDMA Ⅱ LTE 25/2	1 850 ~ 1 915	**2.80**		-0.92
WCDMA Ⅳ LTE 4	1 710 ~ 1 780	**0.22**		-2.34
GSM 850 WCDMA Ⅴ LTE 26/5	824 ~ 849	**-1.16**		-2.11
LTE 26	814 ~ 824	**-1.16**		-2.11
LTE 7 NR 7	2 500 ~ 2 570	1.65		**2.41**
LTE 12/17	699 ~ 716	-2.46		**1.04**
LTE 41/38 NR 41	2 496 ~ 2 690	1.65		**2.41**
NR 77	3 450 ~ 3 550	1.95	1.44	**3.72**
	3 700 ~ 3 980	1.95	1.44	**3.72**
NR 78	3 450 ~ 3 550	1.95	1.44	**3.72**
	3 700 ~ 3 800	1.95	1.44	**3.72**

Test case

Band	Operating Frequency (㎒)	Ant. 1	Ant. 2	Ant. 3
GSM 1900 WCDMA Ⅱ LTE 25/2	1 850 ~ 1 915	V		-
WCDMA Ⅳ LTE 4	1 710 ~ 1 780	V		-
GSM 850 WCDMA Ⅴ LTE 26/5	824 ~ 849	V		-
LTE 26	814 ~ 824	V		-
LTE 7 NR 7	2 500 ~ 2 570	-		V
LTE 12/17	699 ~ 716	-		V
LTE 41/38 NR 41	2 496 ~ 2 690	-		V
NR 77	3 450 ~ 3 550	-	-	V
	3 700 ~ 3 980	-	-	V
NR 78	3 450 ~ 3 550	-	-	V
	3 700 ~ 3 800	-	-	V

1.16. Emission Designator and Max Power

NR Band	Band width (㎒)	Modulation		Low Freq. (㎒)	Upper Freq. (㎒)	Conducted Average (dB m)	Worst Ant. Gain (dB i)	E.I.R.P. Average (dB m)	E.I.R.P. Average (W)	Emission Designator
n7	5	DFT-S OFDM	BPSK	2 502.5	2 567.5	23.12	2.41	25.53	0.357	4M48G7D
			QPSK			23.15		25.56	0.360	4M50G7D
			16QAM			22.07		24.48	0.281	4M50D7D
		CP-OFDM	QPSK			21.77		24.18	0.262	4M52G7D
			16QAM			21.27		23.68	0.233	4M53D7D
	10	DFT-S OFDM	BPSK	2 505.0	2 565.0	23.08		25.49	0.354	8M91G7D
			QPSK			23.16		25.57	0.361	8M95G7D
			16QAM			22.05		24.46	0.279	8M97D7D
		CP-OFDM	QPSK			21.80		24.21	0.264	9M29G7D
			16QAM			21.23		23.64	0.231	9M29D7D
	15	DFT-S OFDM	BPSK	2 507.5	2 562.5	23.25		25.66	0.368	13M5G7D
			QPSK			23.29		25.70	0.372	13M5G7D
			16QAM			22.04		24.45	0.279	13M5D7D
		CP-OFDM	QPSK			21.85		24.26	0.267	14M1G7D
			16QAM			21.20		23.61	0.230	14M1D7D
	20	DFT-S OFDM	BPSK	2 510.0	2 560.0	23.29		25.70	0.372	17M9G7D
			QPSK			23.36		25.77	0.378	17M9G7D
			16QAM			22.12		24.53	0.284	17M9D7D
		CP-OFDM	QPSK			21.91		24.32	0.270	18M9G7D
			16QAM			21.27		23.68	0.233	19M0D7D

NR Band	Band width (㎒)	Modulation		Low Freq. (㎒)	Upper Freq. (㎒)	Conducted Average (dB m)	Worst Ant. Gain (dB i)	E.I.R.P. Average (dB m)	E.I.R.P. Average (W)	Emission Designator
n41	20	DFT-S OFDM	BPSK	2 506.02	2 679.99	22.88	2.41	25.29	0.338	17M9G7D
			QPSK			22.75		25.16	0.328	17M9G7D
			16QAM			21.34		23.75	0.237	17M9D7D
		CP OFDM	QPSK			21.29		23.70	0.234	18M3G7D
			16QAM			20.54		22.95	0.197	18M3D7D
	30	DFT-S OFDM	BPSK	2 511.00	2 674.98	22.93		25.34	0.342	26M9G7D
			QPSK			22.83		25.24	0.334	26M9G7D
			16QAM			21.47		23.88	0.244	26M9D7D
		CP OFDM	QPSK			21.48		23.89	0.245	27M5G7D
			16QAM			20.68		23.09	0.204	27M5D7D
	40	DFT-S OFDM	BPSK	2 516.01	2 670.00	22.75		25.16	0.328	35M8G7D
			QPSK			22.70		25.11	0.324	35M7G7D
			16QAM			21.76		24.17	0.261	35M8D7D
		CP OFDM	QPSK			21.34		23.75	0.237	37M9G7D
			16QAM			20.86		23.27	0.212	38M0D7D
	50	DFT-S OFDM	BPSK	2 521.02	2 664.99	23.05		25.46	0.352	45M8G7D
			QPSK			23.00		25.41	0.348	45M8G7D
			16QAM			21.73		24.14	0.259	45M8D7D
		CP OFDM	QPSK			21.67		24.08	0.256	47M5G7D
			16QAM			20.86		23.27	0.212	47M6D7D
	60	DFT-S OFDM	BPSK	2 526.00	2 659.98	22.82		25.23	0.333	57M7G7D
			QPSK			22.78		25.19	0.330	57M8G7D
			16QAM			21.44		23.85	0.243	58M0D7D
		CP OFDM	QPSK			21.34		23.75	0.237	57M8G7D
			16QAM			20.68		23.09	0.204	58M0D7D
	70	DFT-S OFDM	BPSK	2 531.01	2 655.00	23.02		25.43	0.349	64M1G7D
			QPSK			23.05		25.46	0.352	64M2G7D
			16QAM			21.67		24.08	0.256	64M3D7D
		CP OFDM	QPSK			21.62		24.03	0.253	67M4G7D
			16QAM			20.92		23.33	0.215	67M3D7D
	80	DFT-S OFDM	BPSK	2 536.02	2 649.99	23.11		25.52	0.356	77M0G7D
			QPSK			23.10		25.51	0.356	77M2G7D
			16QAM			21.71		24.12	0.258	77M0D7D
		CP OFDM	QPSK			21.62		24.03	0.253	77M5G7D
			16QAM			20.78		23.19	0.208	77M5D7D
	90	DFT-S OFDM	BPSK	2 541.00	2 644.98	23.19		25.60	0.363	86M7G7D
			QPSK			23.16		25.57	0.361	86M5G7D
			16QAM			21.81		24.22	0.264	86M9D7D
		CP OFDM	QPSK			21.78		24.19	0.262	87M4G7D
			16QAM			21.05		23.46	0.222	87M2D7D
	100	DFT-S OFDM	BPSK	2 546.01	2 640.00	23.22		25.63	0.366	96M5G7D
			QPSK			23.33		25.74	0.375	96M3G7D
			16QAM			21.78		24.19	0.262	96M3D7D
		CP OFDM	QPSK			21.63		24.04	0.254	97M5G7D
			16QAM			20.90		23.31	0.214	97M5D7D

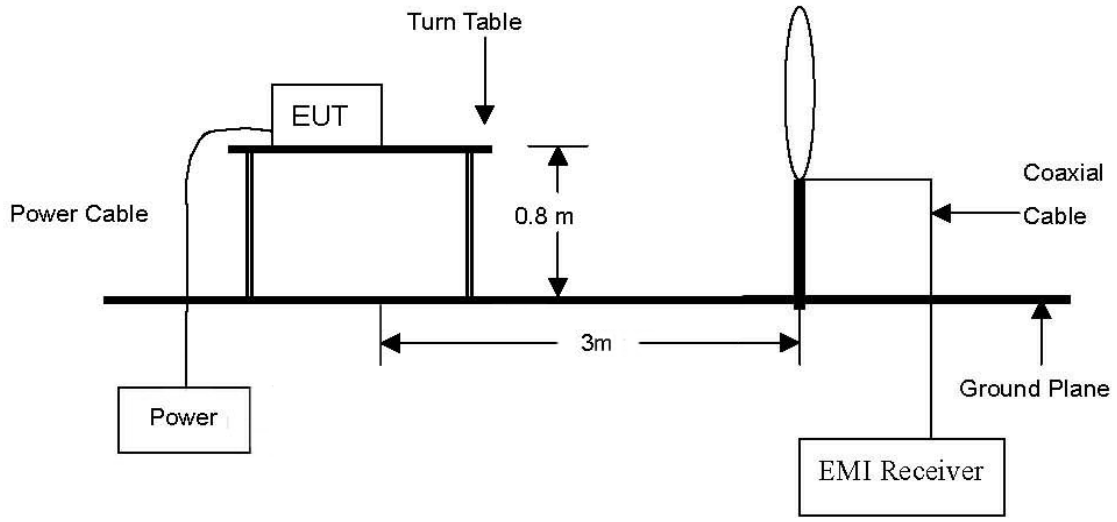
NR Band	Band width (㎒)	Modulation		Low Freq. (㎒)	Upper Freq. (㎒)	Conducted Average (dB m)	Worst Ant. Gain (dB i)	E.I.R.P. Average (dB m)	E.I.R.P. Average (W)	Emission Designator
n77/78 Low Band	20	DFT-S OFDM	BPSK	3 460.02	3 540.00	23.40	3.72	27.12	0.515	17M9G7D
			QPSK			23.36		27.08	0.511	17M9G7D
			16QAM			22.06		25.78	0.378	17M9D7D
		CP OFDM	QPSK			21.92		25.64	0.366	18M3G7D
			16QAM			21.30		25.02	0.318	18M3D7D
	30	DFT-S OFDM	BPSK	3 465.00	3 534.99	23.66		27.38	0.547	26M8G7D
			QPSK			23.61		27.33	0.541	26M9G7D
			16QAM			22.29		26.01	0.399	26M9D7D
		CP OFDM	QPSK			22.15		25.87	0.386	27M5G7D
			16QAM			21.43		25.15	0.327	27M5D7D
	40	DFT-S OFDM	BPSK	3 470.01	3 529.98	23.52		27.24	0.530	35M9G7D
			QPSK			23.47		27.19	0.524	35M7G7D
			16QAM			22.13		25.85	0.385	35M9D7D
		CP OFDM	QPSK			22.07		25.79	0.379	38M0G7D
			16QAM			21.27		24.99	0.316	38M0D7D
	50	DFT-S OFDM	BPSK	3 475.02	3 525.00	23.55		27.27	0.533	45M8G7D
			QPSK			23.53		27.25	0.531	45M9G7D
			16QAM			22.17		25.89	0.388	45M8D7D
		CP OFDM	QPSK			22.28		26.00	0.398	47M6G7D
			16QAM			21.43		25.15	0.327	47M6D7D
	60	DFT-S OFDM	BPSK	3 480.00	3 519.99	23.38		27.10	0.513	57M8G7D
			QPSK			23.35		27.07	0.509	58M0G7D
			16QAM			22.02		25.74	0.375	58M1D7D
		CP OFDM	QPSK			21.96		25.68	0.370	58M1G7D
			16QAM			21.38		25.10	0.324	58M1D7D
	70	DFT-S OFDM	BPSK	3 485.01	3 514.98	23.53		27.25	0.531	64M2G7D
			QPSK			23.49		27.21	0.526	64M2G7D
			16QAM			22.07		25.79	0.379	64M3D7D
		CP OFDM	QPSK			22.23		25.95	0.394	67M6G7D
			16QAM			21.24		24.96	0.313	67M7D7D
	80	DFT-S OFDM	BPSK	3 490.02	3 510.00	23.54		27.26	0.532	77M4G7D
			QPSK			23.54		27.26	0.532	77M4G7D
			16QAM			22.08		25.80	0.380	77M4D7D
		CP OFDM	QPSK			22.22		25.94	0.393	77M7G7D
			16QAM			21.36		25.08	0.322	77M7D7D
	90	DFT-S OFDM	BPSK	3 495.00	3 504.99	23.53		27.25	0.531	86M9G7D
			QPSK			23.42		27.14	0.518	86M9G7D
			16QAM			22.05		25.77	0.378	87M0D7D
		CP OFDM	QPSK			22.04		25.76	0.377	87M6G7D
			16QAM			21.44		25.16	0.328	87M4D7D
	100	DFT-S OFDM	BPSK	3 500.01	3 500.01	23.66		27.38	0.547	96M7G7D
			QPSK			23.74		27.46	0.557	96M1G7D
			16QAM			22.07		25.79	0.379	96M5D7D
		CP OFDM	QPSK			21.87		25.59	0.362	97M7G7D
			16QAM			20.86		24.58	0.287	97M5D7D

NR Band	Band width (㎒)	Modulation		Low Freq. (㎒)	Upper Freq. (㎒)	Conducted Average (㏈m)	Worst Ant. Gain (㏈i)	E.I.R.P. Average (㏈m)	E.I.R.P. Average (W)	Emission Designator
n77/78 High Band	20	DFT-S OFDM	BPSK	3 710.01	3 969.99	23.79	3.72	27.51	0.564	17M9G7D
			QPSK			23.76		27.48	0.560	17M9G7D
			16QAM			22.45		26.17	0.414	17M9D7D
		CP OFDM	QPSK			22.42		26.14	0.411	18M3G7D
			16QAM			21.56		25.28	0.337	18M3D7D
	30	DFT-S OFDM	BPSK	3 715.02	3 964.98	23.92		27.64	0.581	26M8G7D
			QPSK			23.90		27.62	0.578	26M9G7D
			16QAM			22.48		26.20	0.417	26M9D7D
		CP OFDM	QPSK			22.27		25.99	0.397	27M5G7D
			16QAM			21.77		25.49	0.354	27M5D7D
	40	DFT-S OFDM	BPSK	3 720.00	3 960.00	23.89		27.61	0.577	35M9G7D
			QPSK			23.86		27.58	0.573	35M9G7D
			16QAM			22.46		26.18	0.415	35M8D7D
		CP OFDM	QPSK			22.51		26.23	0.420	38M0G7D
			16QAM			21.50		25.22	0.333	38M0D7D
	50	DFT-S OFDM	BPSK	3 725.01	3 954.99	23.96		27.68	0.586	45M8G7D
			QPSK			23.92		27.64	0.581	45M9G7D
			16QAM			22.55		26.27	0.424	46M0D7D
		CP OFDM	QPSK			22.71		26.43	0.440	47M6G7D
			16QAM			21.82		25.54	0.358	47M6D7D
	60	DFT-S OFDM	BPSK	3 730.02	3 949.98	23.80		27.52	0.565	58M1G7D
			QPSK			23.76		27.48	0.560	58M0G7D
			16QAM			22.32		26.04	0.402	58M3D7D
		CP OFDM	QPSK			22.32		26.04	0.402	58M1G7D
			16QAM			21.55		25.27	0.337	58M0D7D
	70	DFT-S OFDM	BPSK	3 735.00	3 945.00	23.85		27.57	0.571	64M5G7D
			QPSK			23.87		27.59	0.574	64M5G7D
			16QAM			22.41		26.13	0.410	64M5D7D
		CP OFDM	QPSK			22.24		25.96	0.394	67M6G7D
			16QAM			21.68		25.40	0.347	67M7D7D
	80	DFT-S OFDM	BPSK	3 740.01	3 939.99	23.93		27.65	0.582	77M2G7D
			QPSK			23.89		27.61	0.577	77M4G7D
			16QAM			22.63		26.35	0.432	77M4D7D
		CP OFDM	QPSK			22.47		26.19	0.416	77M7G7D
			16QAM			21.85		25.57	0.361	77M7D7D
	90	DFT-S OFDM	BPSK	3 745.02	3 934.98	23.91		27.63	0.579	87M0G7D
			QPSK			23.86		27.58	0.573	86M7G7D
			16QAM			22.44		26.16	0.413	87M2D7D
		CP OFDM	QPSK			22.46		26.18	0.415	87M8G7D
			16QAM			21.93		25.65	0.367	87M8D7D
	100	DFT-S OFDM	BPSK	3 750.00	3 930.00	23.92		27.64	0.581	98M1G7D
			QPSK			24.12		27.84	0.608	96M5G7D
			16QAM			22.61		26.33	0.430	96M5D7D
		CP OFDM	QPSK			22.55		26.27	0.424	97M7G7D
			16QAM			21.77		25.49	0.354	97M7D7D

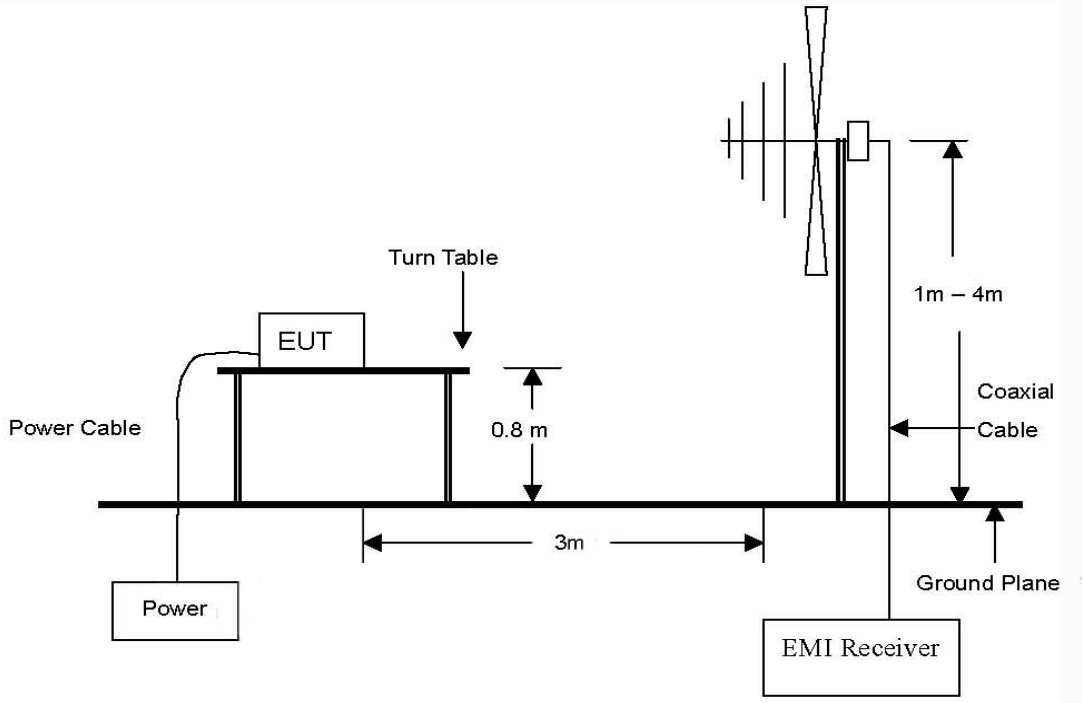
2. E.R.P. / E.I.R.P. & Radiated Spurious Emissions

2.1.1 Test setup

The diagram below shows the test setup that is utilized to make the measurements for emission from 9 ㎑ to 30 ㎒.

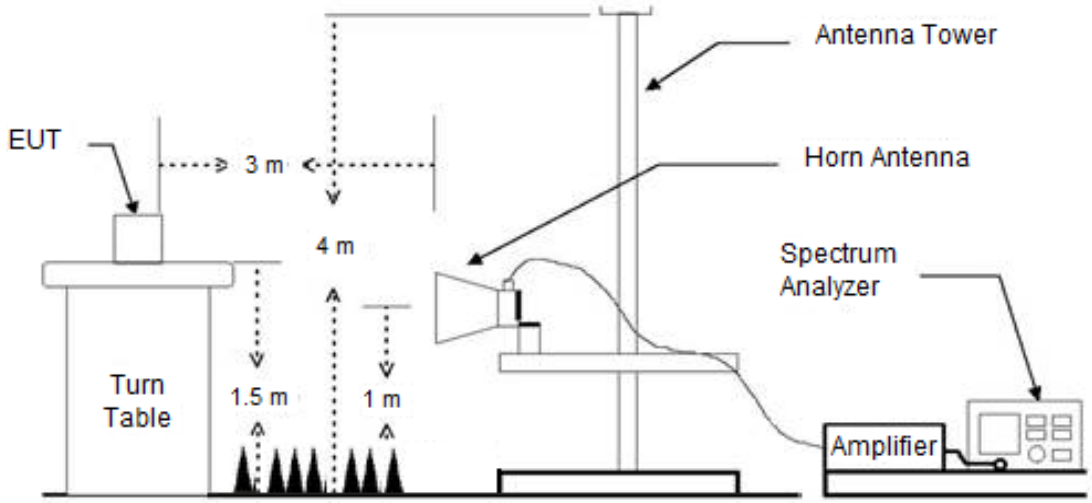


The diagram below shows the test setup that is utilized to make the measurements for emission from 30 ㎒ to 1 ㎓ Emissions.



The diagram below shows the test setup that is utilized to make the measurements for emission from 1 ㎓ to 30 ㎓ Emissions.

The diagram below shows the test setup that is utilized to make the measurements for emission.
The spurious emissions were investigated form 1 ㎓ to the 10th harmonic of the highest fundamental frequency or 40 ㎓, whichever is lower.



2.2. Limit

2.2.1. Limit of E.R.P. / E.I.R.P.

- §27.50(h)(2), Mobile and other user stations. Mobile stations are limited to 2.0 watts EIRP. All user stations are limited to 2.0 watts transmitter output power.

- §27.50(j)(3), Mobile and portable stations are limited to 1 Watt EIRP. Mobile and portable stations operating in these bands must employ a means for limiting power to the minimum necessary for successful communications.

- §27.50(k)(3), Mobile devices are limited to 1Watt (30 dBm) EIRP. Mobile devices operating in these bands must employ a means for limiting power to the minimum necessary for successful communications.

2.2.2. Limit of Radiated Spurious Emissions

- §27.53(m)(4), for mobile digital stations, the attenuation factor shall be not less than 40 + 10 log $_{10}$ (P) dB on all frequencies between the channel edge and 5 megahertz from the channel edge, 43 + 10 log $_{10}$ (P) dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and 55 + 10 log $_{10}$ (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 $_{10}$ (P) dB on all frequencies between 2 490.5 MHz and 2 496 MHz and 55 + 10 log$_{10}$ (P) dB at or below 2 490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2 495 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.

- §27.53(l)(2), for mobile operations in the 3 700-3 980 MHz band, the conducted power of any emission outside the licensee's authorized bandwidth shall not exceed -13 dBm /MHz. Compliance with this paragraph (l)(2) is based on the use of measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater. However, in the 1 megahertz bands immediately outside and adjacent to the licensee's frequency block, the minimum resolution bandwidth for the measurement shall be either one percent of the emission bandwidth of the fundamental emission of the transmitter or 350 kHz. In the bands between 1 and 5 MHz removed from the licensee's frequency block, the minimum resolution bandwidth for the measurement shall be 500 kHz. The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

- §27.53(n)(2), for mobile operations in the 3 450-3 550 MHz band, the conducted power of any emission outside the licensee's authorized bandwidth shall not exceed -13 dBm /MHz. Compliance with this paragraph (n)(2) is based on the use of measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater. However, in the 1 megahertz 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, but limited to a maximum of 200 kHz. In the bands between 1 and 5 MHz removed from the licensee's frequency block, the minimum resolution bandwidth for the measurement shall be 500 kHz. The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

2.3. Test Procedure

2.3.1. E.R.P. or E.I.R.P. from conducted RF output power

According to subclause 5.2.5.5 of ANSI C63.26-2015 E.R.P. and E.I.R.P. are defined as the product of the power supplied to the antenna and its gain.

The relevant equation for determining the E.R.P. or E.I.R.P. from the conducted RF output power measured using the guidance provided above is:

E.R.P. or E.I.R.P. = $P_{Meas} + G_T$

where:
E.R.P. or E.I.R.P. = effective radiated power or equivalent isotropically radiated power, respectively (expressed in the same units as P_{Meas}, typically dBW or dBm);
P_{Meas} = measured transmitter output power or PSD, in dBm or dBW;
G_T = gain of the transmitting antenna, in dBd (ERP) or dBi (EIRP);

2.3.2. Radiated Spurious Emissions

The test based on ANSI/TIA 603E: 2016 and ANSI C63.26-2015 and KDB 971168 D01 Power Meas License Digital Systems v03r01.

1. On a test site, the EUT shall be placed at 0.8 m or 1.5 m height on a turn table, and in the position close to normal use as declared by the applicant.
2. The test antenna shall be oriented initially for vertical polarization located 3 m from EUT to correspond to the fundamental frequency of the transmitter.
3. The output of the test antenna shall be connected to the measuring receiver and the peak detector is used for the measurement.
4. Radiated spurious emissions measurement method was set as follows:
   RBW = 100 kHz for emissions below 1 GHz and 1 MHz for emissions above 1 GHz, VBW ≥ 3 x RBW,
   Detector = RMS, trace mode = max hold, per the guidelines of KDB 971168 D01 Power Meas License Digital Systems v03r01.
5. The transmitter shall be switched on, the measuring receiver shall be tuned to the frequency of the transmitter under test.
6. The test antenna shall be raised and lowered through the specified range of height until the maximum signal level is detected by the measuring receiver.
7. The transmitter shall be rotated through 360° in the horizontal plane, until the maximum signal level is detected by the measuring receiver.
8. The test antenna shall be raised and lowered again through the specified range of height until the maximum signal level is detected by the measuring receiver.
9. The maximum signal level detected by the measuring receiver shall be noted.
10. In necessary, the input attenuator setting on the measuring receiver shall be adjusted in order to increase the sensitivity of the measuring receiver.
11. The test antenna shall be raised and lowered through the specified range of height to ensure that the maximum signal is received.
12. The measurement shall be repeated with the test antenna orientated for horizontal polarization.

2.4. Test Results

Ambient temperature : (23 ± 1) ℃
Relative humidity : 47 % R.H.

2.4.1. E.R.P. / E.I.R.P.

Band	Frequency (㎒)	Maximum Conducted Power (dB m)	Maximum Conducted Power (W)	Worst Antenna Gain (dB i)	Maximum E.I.R.P. (dB m)	Maximum E.I.R.P. (W)	Maximum E.R.P. (dB m)	Maximum E.R.P. (W)	Output Power Limit
n7	2 500 ~ 2 570	23.36	0.217	2.41	25.77	0.378			2 W E.I.R.P.
n41	2 496 ~ 2 690	23.33	0.215	2.41	25.74	0.375			2 W E.I.R.P.
n77/78 Low band	3 450 ~ 3 550	23.74	0.237	3.72	27.46	0.557			1 W E.I.R.P.
n77/78 High band	3 700 ~ 3 980	24.12	0.258	3.72	27.84	0.608			1 W E.I.R.P.

Remark;

1. E.I.R.P. (dB m) = Maximum Conducted Power (dB m) + Antenna Gain (dB i)
2. E.R.P. (dB m) = E.I.R.P. (dB m) - 2.15 (dB); where E.R.P. and E.I.R.P. are expressed in consistent units.

2.4.2. Radiated Spurious Emissions

- Ant. 1

NR Band 7 (20 ㎒ - DFT-S-OFDM QPSK)

Frequency (㎒)	Measured Level (dB㎶)	Ant. Pol.	AF (dB/m)	AMP+CL (dB)	E (dB㎶/m)	CF (dB)	E.I.R.P. (dB m)	Limit (dB m)	Margin (dB)
Low Channel (2 510.0 ㎒)									
5 001.47	41.73	H	33.40	-30.60	44.53	-95.26	-50.73	-25	25.73
5 001.61	37.95	V	33.40	-30.60	40.75	-95.26	-54.51	-25	29.51
Above 5 100.00	Not detected	–	–	–	–	–	–	–	–
Middle Channel (2 535.0 ㎒)									
5 051.44	41.74	H	33.40	-30.50	44.64	-95.26	**-50.62**	-25	25.62
5 051.32	38.65	V	33.40	-30.50	41.55	-95.26	-53.71	-25	28.71
Above 5 100.00	Not detected	–	–	–	–	–	–	–	–
High Channel (2 560.0 ㎒)									
5 101.37	40.87	H	33.50	-30.51	43.86	-95.26	-51.40	-25	26.40
5 101.46	39.52	V	33.50	-30.51	42.51	-95.26	-52.75	-25	27.75
Above 5 200.00	Not detected	–	–	–	–	–	–	–	–

NR Band 41 (100 ㎒ - DFT-S-OFDM QPSK)

Frequency (㎒)	Measured Level (dB㎶)	Ant. Pol.	AF (dB/m)	AMP+CL (dB)	E (dB㎶/m)	CF (dB)	E.I.R.P. (dB m)	Limit (dB m)	Margin (dB)
Low Channel (2 546.01 ㎒)									
Below 1 000.00	Not detected	–	-	-	-	-	-	-	-
Above 1 000.00	Not detected	–	-	-	-	-	-	-	-
Middle Channel (2 592.99 ㎒)									
Below 1 000.00	Not detected	–	-	-	-	-	-	-	-
Above 1 000.00	Not detected	–	-	-	-	-	-	-	-
High Channel (2 640.00 ㎒)									
Below 1 000.00	Not detected	–	-	-	-	-	-	-	-
Above 1 000.00	Not detected	–	-	-	-	-	-	-	-

NR Band 77/78 Low Band (100 ㎒ - DFT-S-OFDM QPSK)

Frequency (㎒)	Measured Level (dB㎶)	Ant. Pol.	AF (dB/m)	AMP+CL (dB)	E (dB㎶/m)	CF (dB)	E.I.R.P. (dB m)	Limit (dB m)	Margin (dB)
Middle Channel (3 500.01 ㎒)									
Below 1 000.00	Not detected	–	–	–	–	–	–	–	–
Above 1 000.00	Not detected	–	–	–	–	–	–	–	–

NR Band 77/78 High Band (100 ㎒ - DFT-S-OFDM QPSK)

Frequency (㎒)	Measured Level (dB㎶)	Ant. Pol.	AF (dB/m)	AMP+CL (dB)	E (dB㎶/m)	CF (dB)	E.I.R.P. (dB m)	Limit (dB m)	Margin (dB)
Low Channel (3 750.00 ㎒)									
Below 1 000.00	Not detected	–	–	–	–	–	–	–	–
Above 1 000.00	Not detected	–	–	–	–	–	–	–	–
Middle Channel (3 840.00 ㎒)									
Below 1 000.00	Not detected	–	–	–	–	–	–	–	–
Above 1 000.00	Not detected	–	–	–	–	–	–	–	–
High Channel (3 930.00 ㎒)									
Below 1 000.00	Not detected	–	–	–	–	–	–	–	–
Above 1 000.00	Not detected	–	–	–	–	–	–	–	–

- Ant. 2

NR Band 77/78 Low Band (100 ㎒ - DFT-S-OFDM QPSK)

Frequency (㎒)	Measured Level (dB㎶)	Ant. Pol.	AF (dB/m)	AMP+CL (dB)	E (dB㎶/m)	CF (dB)	E.I.R.P. (dB m)	Limit (dB m)	Margin (dB)
Middle Channel (3 500.01 ㎒)									
Below 1 000.00	Not detected	–	–	–	–	–	–	–	–
Above 1 000.00	Not detected	–	–	–	–	–	–	–	–

NR Band 77/78 High Band (100 ㎒ - DFT-S-OFDM QPSK)

Frequency (㎒)	Measured Level (dB㎶)	Ant. Pol.	AF (dB/m)	AMP+CL (dB)	E (dB㎶/m)	CF (dB)	E.I.R.P. (dB m)	Limit (dB m)	Margin (dB)
Low Channel (3 750.00 ㎒)									
Below 1 000.00	Not detected	–	–	–	–	–	–	–	–
Above 1 000.00	Not detected	–	–	–	–	–	–	–	–
Middle Channel (3 840.00 ㎒)									
Below 1 000.00	Not detected	–	–	–	–	–	–	–	–
Above 1 000.00	Not detected	–	–	–	–	–	–	–	–
High Channel (3 930.00 ㎒)									
Below 1 000.00	Not detected	–	–	–	–	–	–	–	–
Above 1 000.00	Not detected	–	–	–	–	–	–	–	–

- Ant. 3

NR Band 7 (20 ㎒ - DFT-S-OFDM QPSK)

Frequency (㎒)	Measured Level (dB㎶)	Ant. Pol.	AF (dB/m)	AMP+CL (dB)	E (dB㎶/m)	CF (dB)	E.I.R.P. (dB m)	Limit (dB m)	Margin (dB)
Low Channel (2 510.0 ㎒)									
Below 1 000.00	Not detected	–	–	–	–	–	–	–	–
Above 1 000.00	Not detected	–	–	–	–	–	–	–	–
Middle Channel (2 535.0 ㎒)									
Below 1 000.00	Not detected	–	–	–	–	–	–	–	–
Above 1 000.00	Not detected	–	–	–	–	–	–	–	–
High Channel (2 560.0 ㎒)									
Below 1 000.00	Not detected	–	–	–	–	–	–	–	–
Above 1 000.00	Not detected	–	–	–	–	–	–	–	–

NR Band 41 (100 ㎒ - DFT-S-OFDM QPSK)

Frequency (㎒)	Measured Level (dB㎶)	Ant. Pol.	AF (dB/m)	AMP+CL (dB)	E (dB㎶/m)	CF (dB)	E.I.R.P. (dB m)	Limit (dB m)	Margin (dB)
Low Channel (2 546.01 ㎒)									
Below 1 000.00	Not detected	–	-	-	-	-	-	-	-
Above 1 000.00	Not detected	–	-	-	-	-	-	-	-
Middle Channel (2 592.99 ㎒)									
Below 1 000.00	Not detected	–	-	-	-	-	-	-	-
Above 1 000.00	Not detected	–	-	-	-	-	-	-	-
High Channel (2 640.00 ㎒)									
Below 1 000.00	Not detected	–	-	-	-	-	-	-	-
Above 1 000.00	Not detected	–	-	-	-	-	-	-	-

NR Band 77/78 Low Band (100 ㎒ - DFT-S-OFDM QPSK)

Frequency (㎒)	Measured Level (dB㎶)	Ant. Pol.	AF (dB/m)	AMP+CL (dB)	E (dB㎶/m)	CF (dB)	E.I.R.P. (dB m)	Limit (dB m)	Margin (dB)
Middle Channel (3 500.01 ㎒)									
Below 1 000.00	Not detected	–	–	–	–	–	–	–	–
Above 1 000.00	Not detected	–	–	–	–	–	–	–	–

NR Band 77/78 High Band (100 ㎒ - DFT-S-OFDM QPSK)

Frequency (㎒)	Measured Level (dB㎶)	Ant. Pol.	AF (dB/m)	AMP+CL (dB)	E (dB㎶/m)	CF (dB)	E.I.R.P. (dB m)	Limit (dB m)	Margin (dB)
Low Channel (3 750.00 ㎒)									
Below 1 000.00	Not detected	–	–	–	–	–	–	–	–
Above 1 000.00	Not detected	–	–	–	–	–	–	–	–
Middle Channel (3 840.00 ㎒)									
Below 1 000.00	Not detected	–	–	–	–	–	–	–	–
Above 1 000.00	Not detected	–	–	–	–	–	–	–	–
High Channel (3 930.00 ㎒)									
Below 1 000.00	Not detected	–	–	–	–	–	–	–	–
Above 1 000.00	Not detected	–	–	–	–	–	–	–	–

ENDC

- Ant. 1

41A-n77A Low Band (100 ㎒ - DFT-S-OFDM QPSK)

Frequency (㎒)	Measured Level (dB㎶)	Ant. Pol.	AF (dB/m)	AMP+CL (dB)	E (dB㎶/m)	CF (dB)	E.I.R.P. (dB m)	Limit (dB m)	Margin (dB)
Middle Channel (3 500.01 ㎒)									
Below 1 000.00	Not detected	–	–	–	–	–	–	–	–
Above 1 000.00	Not detected	–	–	–	–	–	–	–	–

41A-n77A High Band (100 ㎒ - DFT-S-OFDM QPSK)

Frequency (㎒)	Measured Level (dB㎶)	Ant. Pol.	AF (dB/m)	AMP+CL (dB)	E (dB㎶/m)	CF (dB)	E.I.R.P. (dB m)	Limit (dB m)	Margin (dB)
Low Channel (3 750.00 ㎒)									
Below 1 000.00	Not detected	–	–	–	–	–	–	–	–
Above 1 000.00	Not detected	–	–	–	–	–	–	–	–
Middle Channel (3 840.00 ㎒)									
Below 1 000.00	Not detected	–	–	–	–	–	–	–	–
Above 1 000.00	Not detected	–	–	–	–	–	–	–	–
High Channel (3 930.00 ㎒)									
Below 1 000.00	Not detected	–	–	–	–	–	–	–	–
Above 1 000.00	Not detected	–	–	–	–	–	–	–	–

7A-n78A Low Band (100 ㎒ - DFT-S-OFDM QPSK)

Frequency (㎒)	Measured Level (dB㎶)	Ant. Pol.	AF (dB/m)	AMP+CL (dB)	E (dB㎶/m)	CF (dB)	E.I.R.P. (dB m)	Limit (dB m)	Margin (dB)
Middle Channel (3 500.01 ㎒)									
Below 1 000.00	Not detected	–	–	–	–	–	–	–	–
Above 1 000.00	Not detected	–	–	–	–	–	–	–	–

7A-n78A High Band (100 ㎒ - DFT-S-OFDM QPSK)

Frequency (㎒)	Measured Level (dB㎶)	Ant. Pol.	AF (dB/m)	AMP+CL (dB)	E (dB㎶/m)	CF (dB)	E.I.R.P. (dB m)	Limit (dB m)	Margin (dB)
Middle Channel (3 750.00 ㎒)									
Below 1 000.00	Not detected	–	–	–	–	–	–	–	–
Above 1 000.00	Not detected	–	–	–	–	–	–	–	–

- Ant. 2

41A-n77A Low Band (100 ㎒ - DFT-S-OFDM QPSK)

Frequency (㎒)	Measured Level (dB㎶)	Ant. Pol.	AF (dB/m)	AMP+CL (dB)	E (dB㎶/m)	CF (dB)	E.I.R.P. (dB m)	Limit (dB m)	Margin (dB)
Middle Channel (3 500.01 ㎒)									
Below 1 000.00	Not detected	–	–	–	–	–	–	–	–
Above 1 000.00	Not detected	–	–	–	–	–	–	–	–

41A-n77A High Band (100 ㎒ - DFT-S-OFDM QPSK)

Frequency (㎒)	Measured Level (dB㎶)	Ant. Pol.	AF (dB/m)	AMP+CL (dB)	E (dB㎶/m)	CF (dB)	E.I.R.P. (dB m)	Limit (dB m)	Margin (dB)
Low Channel (3 750.00 ㎒)									
Below 1 000.00	Not detected	–	–	–	–	–	–	–	–
Above 1 000.00	Not detected	–	–	–	–	–	–	–	–
Middle Channel (3 840.00 ㎒)									
Below 1 000.00	Not detected	–	–	–	–	–	–	–	–
Above 1 000.00	Not detected	–	–	–	–	–	–	–	–
High Channel (3 930.00 ㎒)									
Below 1 000.00	Not detected	–	–	–	–	–	–	–	–
Above 1 000.00	Not detected	–	–	–	–	–	–	–	–

7A-n78A Low Band (100 ㎒ - DFT-S-OFDM QPSK)

Frequency (㎒)	Measured Level (dB㎶)	Ant. Pol.	AF (dB/m)	AMP+CL (dB)	E (dB㎶/m)	CF (dB)	E.I.R.P. (dB m)	Limit (dB m)	Margin (dB)
Middle Channel (3 500.01 ㎒)									
Below 1 000.00	Not detected	–	–	–	–	–	–	–	–
Above 1 000.00	Not detected	–	–	–	–	–	–	–	–

7A-n78A High Band (100 ㎒ - DFT-S-OFDM QPSK)

Frequency (㎒)	Measured Level (dB㎶)	Ant. Pol.	AF (dB/m)	AMP+CL (dB)	E (dB㎶/m)	CF (dB)	E.I.R.P. (dB m)	Limit (dB m)	Margin (dB)
Middle Channel (3 750.00 ㎒)									
Below 1 000.00	Not detected	–	–	–	–	–	–	–	–
Above 1 000.00	Not detected	–	–	–	–	–	–	–	–

- Ant. 3

41A-n77A Low Band (100 ㎒ - DFT-S-OFDM QPSK)

Frequency (㎒)	Measured Level (dB㎶)	Ant. Pol.	AF (dB/m)	AMP+CL (dB)	E (dB㎶/m)	CF (dB)	E.I.R.P. (dB m)	Limit (dB m)	Margin (dB)
Middle Channel (3 500.01 ㎒)									
Below 1 000.00	Not detected	–	–	–	–	–	–	–	–
Above 1 000.00	Not detected	–	–	–	–	–	–	–	–

41A-n77A High Band (100 ㎒ - DFT-S-OFDM QPSK)

Frequency (㎒)	Measured Level (dB㎶)	Ant. Pol.	AF (dB/m)	AMP+CL (dB)	E (dB㎶/m)	CF (dB)	E.I.R.P. (dB m)	Limit (dB m)	Margin (dB)
Low Channel (3 750.00 ㎒)									
Below 1 000.00	Not detected	–	–	–	–	–	–	–	–
Above 1 000.00	Not detected	–	–	–	–	–	–	–	–
Middle Channel (3 840.00 ㎒)									
Below 1 000.00	Not detected	–	–	–	–	–	–	–	–
Above 1 000.00	Not detected	–	–	–	–	–	–	–	–
High Channel (3 930.00 ㎒)									
Below 1 000.00	Not detected	–	–	–	–	–	–	–	–
Above 1 000.00	Not detected	–	–	–	–	–	–	–	–

7A-n78A Low Band (100 ㎒ - DFT-S-OFDM QPSK)

Frequency (㎒)	Measured Level (dB㎶)	Ant. Pol.	AF (dB/m)	AMP+CL (dB)	E (dB㎶/m)	CF (dB)	E.I.R.P. (dB m)	Limit (dB m)	Margin (dB)
Middle Channel (3 500.01 ㎒)									
Below 1 000.00	Not detected	–	–	–	–	–	–	–	–
Above 1 000.00	Not detected	–	–	–	–	–	–	–	–

7A-n78A High Band (100 ㎒ - DFT-S-OFDM QPSK)

Frequency (㎒)	Measured Level (dB㎶)	Ant. Pol.	AF (dB/m)	AMP+CL (dB)	E (dB㎶/m)	CF (dB)	E.I.R.P. (dB m)	Limit (dB m)	Margin (dB)
Middle Channel (3 750.00 ㎒)									
Below 1 000.00	Not detected	–	–	–	–	–	–	–	–
Above 1 000.00	Not detected	–	–	–	–	–	–	–	–

Remark;

1. AF = Antenna Factor, CL = Cable Loss, CF = Conversion Factor.
2. E (dB㎶/m) = Measured Level (dB㎶) + Antenna Factor (dB/m) + AMP (dB) + Cable Loss (dB).
3. E.I.R.P. (dB m) = E (dB㎶/m) + CF (dB).
4. E.R.P. (dB m) = E (dB㎶/m) + CF (dB) - 2.15 (dB); where E.R.P. and E.I.R.P. are expressed in consistent units.
5. CF (dB) = 20 log D - 104.8; where D is the measurement distance in meters, According to KDB 971168 D01 v03r01 5.8.4.
6. The frequency spectrum is examined from 9 ㎑ to the 10th harmonic of the fundamental frequency of the transmitter. No other spurious and harmonic emissions were reported greater than listed emissions above table.

3. Conducted Output Power

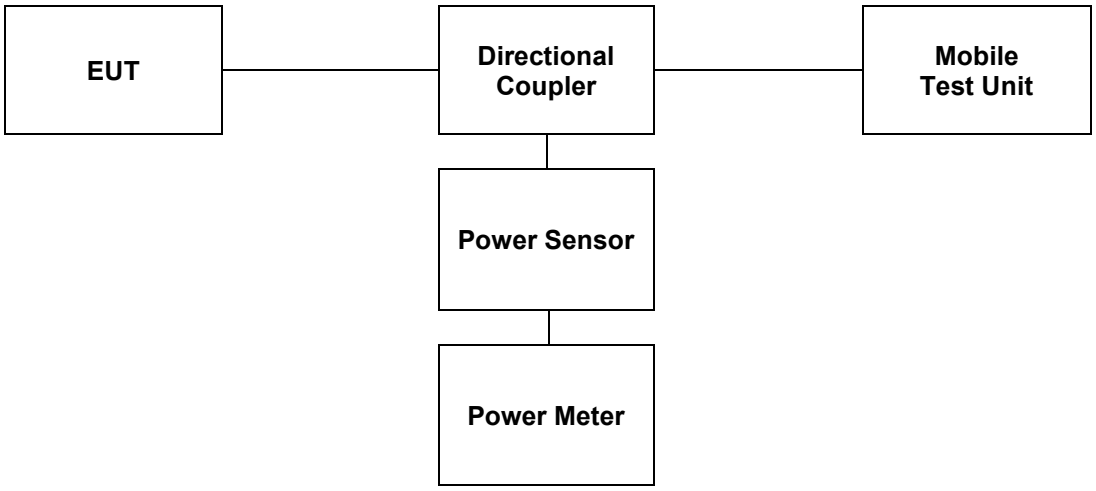
3.1. Limit

CFR 47, Section FCC §2.1046.

3.2. Test Procedure

Output power shall be measured at the RF output terminals for all configurations.

1. The RF output of the transmitter was connected to the input of the mobile test unit in order to establish communication with the EUT.
2. The EUT was set up for the max. output power with pseudo random data modulation by using mobile test unit parameters.
3. The measurement performed using a wideband RF power meter.
4. This EUT was tested under all configurations and the highest power was investigated and reported.



3.3. Test Result

Ambient temperature : (23 ± 1) ℃

Relative humidity : 47 % R.H.

NR Band 7												
BW (㎒)	SCS (㎑)	Modulation		RB allocation	RB Size	RB Offset	Conducted Output Power					
							500500 (2 502.5 ㎒)		507000 (2 535.0 ㎒)		513500 (2 567.5 ㎒)	
							(dB m)	(W)	(dB m)	(W)	(dB m)	(W)
5	15	DFT-S OFDM	BPSK	Inner_1RB Left	1	1	23.05	0.202	22.78	0.190	22.71	0.187
			QPSK		1	1	**23.15**	**0.207**	22.95	0.197	22.79	0.190
			16QAM		1	1	**22.07**	**0.161**	21.72	0.149	21.55	0.143
			64QAM		1	1	20.76	0.119	20.49	0.112	20.33	0.108
			256QAM		1	1	18.09	0.064	17.89	0.062	17.78	0.060
			BPSK	Inner_1RB Right	1	23	23.07	0.203	22.71	0.187	22.73	0.187
			QPSK		1	23	23.14	0.206	22.80	0.191	22.85	0.193
			BPSK	Inner_Full	12	6	**23.12**	**0.205**	22.85	0.193	22.77	0.189
			QPSK		12	6	23.13	0.206	22.83	0.192	22.76	0.189
			BPSK	Outer_Full	25	0	22.19	0.166	21.84	0.153	21.77	0.150
			QPSK		25	0	22.18	0.165	21.85	0.153	21.87	0.154
			BPSK	Edge_1RB Left	1	0	22.09	0.162	21.80	0.151	21.67	0.147
			QPSK		1	0	22.14	0.164	21.89	0.155	21.82	0.152
			BPSK	Edge_Full Left	2	0	22.21	0.166	21.92	0.156	21.80	0.151
			QPSK		2	0	22.16	0.164	21.90	0.155	21.86	0.153
			BPSK	Edge_1RB Right	1	24	22.01	0.159	21.69	0.148	21.72	0.149
			QPSK		1	24	22.14	0.164	21.86	0.153	21.85	0.153
			BPSK	Edge_Full Right	2	23	22.16	0.164	21.84	0.153	21.84	0.153
			QPSK		2	23	22.12	0.163	21.87	0.154	21.90	0.155
		CP OFDM	QPSK	Inner_1RB Left	1	1	**21.77**	**0.150**	21.53	0.142	21.44	0.139
			16QAM		1	1	**21.27**	**0.134**	20.96	0.125	20.84	0.121

NR Band 7												
BW (㎒)	SCS (㎑)	Modulation		RB allocation	RB Size	RB Offset	Conducted Output Power					
							501000 (2 505.0 ㎒)		507000 (2 535.0 ㎒)		513000 (2 565.0 ㎒)	
							(dB m)	(W)	(dB m)	(W)	(dB m)	(W)
10	15	DFT-S OFDM	BPSK	Inner_1RB Left	1	1	23.07	0.203	22.95	0.197	22.70	0.186
			QPSK		1	1	23.11	0.205	23.04	0.201	22.76	0.189
			16QAM		1	1	**22.05**	**0.160**	21.91	0.155	21.65	0.146
			64QAM		1	1	20.74	0.119	20.61	0.115	20.38	0.109
			256QAM		1	1	18.22	0.066	18.08	0.064	17.86	0.061
			BPSK	Inner_1RB Right	1	50	23.02	0.200	22.83	0.192	22.78	0.190
			QPSK		1	50	**23.16**	**0.207**	22.86	0.193	22.84	0.192
			BPSK	Inner_Full	25	12	**23.08**	**0.203**	22.96	0.198	22.78	0.190
			QPSK		25	12	23.12	0.205	22.94	0.197	22.80	0.191
			BPSK	Outer_Full	50	0	22.14	0.164	22.01	0.159	21.84	0.153
			QPSK		50	0	22.17	0.165	21.98	0.158	21.81	0.152
			BPSK	Edge_1RB Left	1	0	22.00	0.158	21.92	0.156	21.60	0.145
			QPSK		1	0	22.10	0.162	22.00	0.158	21.76	0.150
			BPSK	Edge_Full Left	2	0	22.08	0.161	22.01	0.159	21.70	0.148
			QPSK		2	0	22.10	0.162	22.01	0.159	21.77	0.150
			BPSK	Edge_1RB Right	1	51	21.94	0.156	21.73	0.149	21.69	0.148
			QPSK		1	51	22.13	0.163	21.82	0.152	21.84	0.153
			BPSK	Edge_Full Right	2	50	22.03	0.160	21.82	0.152	21.77	0.150
			QPSK		2	50	22.13	0.163	21.85	0.153	21.87	0.154
		CP OFDM	QPSK	Inner_1RB Left	1	1	**21.80**	**0.151**	21.72	0.149	21.47	0.140
			16QAM		1	1	**21.23**	**0.133**	21.12	0.129	20.88	0.122

NR Band 7												
BW (MHz)	SCS (kHz)	Modulation		RB allocation	RB Size	RB Offset	Conducted Output Power					
							501500 (2 507.5 MHz)		507000 (2 535.0 MHz)		512500 (2 562.5 MHz)	
							(dB m)	(W)	(dB m)	(W)	(dB m)	(W)
15	15	DFT-S OFDM	BPSK	Inner_1RB Left	1	1	23.08	0.203	23.12	0.205	22.93	0.196
			QPSK		1	1	23.18	0.208	23.15	0.207	23.02	0.200
			16QAM		1	1	22.01	0.159	**22.04**	**0.160**	21.90	0.155
			64QAM		1	1	20.77	0.119	20.80	0.120	20.66	0.116
			256QAM		1	1	18.26	0.067	18.29	0.067	18.11	0.065
			BPSK	Inner_1RB Right	1	77	**23.25**	**0.211**	22.86	0.193	22.97	0.198
			QPSK		1	77	**23.29**	**0.213**	22.96	0.198	23.06	0.202
			BPSK	Inner_Full	36	18	23.19	0.208	23.01	0.200	22.98	0.199
			QPSK		36	18	23.28	0.213	23.02	0.200	23.01	0.200
			BPSK	Outer_Full	75	0	22.26	0.168	22.02	0.159	22.00	0.158
			QPSK		75	0	22.23	0.167	22.10	0.162	22.07	0.161
			BPSK	Edge_1RB Left	1	0	21.98	0.158	22.04	0.160	22.02	0.159
			QPSK		1	0	22.13	0.163	22.18	0.165	22.02	0.159
			BPSK	Edge_Full Left	2	0	22.08	0.161	22.12	0.163	22.02	0.159
			QPSK		2	0	22.16	0.164	22.17	0.165	22.02	0.159
			BPSK	Edge_1RB Right	1	78	22.20	0.166	21.80	0.151	22.01	0.159
			QPSK		1	78	22.29	0.169	21.93	0.156	22.09	0.162
			BPSK	Edge_Full Right	2	77	22.19	0.166	21.87	0.154	22.08	0.161
			QPSK		2	77	22.30	0.170	21.95	0.157	22.01	0.159
		CP OFDM	QPSK	Inner_1RB Left	1	1	**21.85**	**0.153**	21.82	0.152	21.68	0.147
			16QAM		1	1	**21.20**	**0.132**	21.18	0.131	21.06	0.128

NR Band 7												
BW (MHz)	SCS (kHz)	Modulation		RB allocation	RB Size	RB Offset	Conducted Output Power					
							502000 (2 510.0 MHz)		507000 (2 535.0 MHz)		512000 (2 560.0 MHz)	
							(dB m)	(W)	(dB m)	(W)	(dB m)	(W)
20	15	DFT-S OFDM	BPSK	Inner_1RB Left	1	1	23.13	0.206	23.18	0.208	22.91	0.195
			QPSK		1	1	**23.36**	**0.217**	23.24	0.211	23.07	0.203
			16QAM		1	1	**22.12**	**0.163**	22.09	0.162	21.78	0.151
			64QAM		1	1	20.84	0.121	20.85	0.122	20.56	0.114
			256QAM		1	1	18.34	0.068	18.30	0.068	18.03	0.064
			BPSK	Inner_1RB Right	1	104	23.27	0.212	22.80	0.191	22.99	0.199
			QPSK		1	104	23.32	0.215	22.87	0.194	23.06	0.202
			BPSK	Inner_Full	50	25	**23.29**	**0.213**	23.03	0.201	22.99	0.199
			QPSK		50	25	23.35	0.216	23.05	0.202	23.06	0.202
			BPSK	Outer_Full	100	0	22.33	0.171	22.10	0.162	21.97	0.157
			QPSK		100	0	22.31	0.170	22.08	0.161	21.99	0.158
			BPSK	Edge_1RB Left	1	0	22.09	0.162	22.11	0.163	21.83	0.152
			QPSK		1	0	22.25	0.168	22.15	0.164	21.88	0.154
			BPSK	Edge_Full Left	2	0	22.19	0.166	22.20	0.166	21.92	0.156
			QPSK		2	0	22.18	0.165	22.16	0.164	21.88	0.154
			BPSK	Edge_1RB Right	1	105	22.23	0.167	21.74	0.149	21.92	0.156
			QPSK		1	105	22.32	0.171	21.86	0.153	22.01	0.159
			BPSK	Edge_Full Right	2	104	22.30	0.170	21.82	0.152	22.08	0.161
			QPSK		2	104	22.35	0.172	21.88	0.154	22.03	0.160
		CP OFDM	QPSK	Inner_1RB Left	1	1	**21.91**	**0.155**	21.91	0.155	21.64	0.146
			16QAM		1	1	**21.27**	**0.134**	21.23	0.133	21.00	0.126

NR Band 41												
BW (㎒)	SCS (㎑)	Modulation		RB allocation	RB Size	RB Offset	Conducted Output Power					
							501204 (2 506.02 ㎒)		518598 (2 592.99 ㎒)		535998 (2 679.99 ㎒)	
							(dB m)	(W)	(dB m)	(W)	(dB m)	(W)
20	30	DFT-S OFDM	BPSK	Inner_1RB Left	1	1	22.54	0.179	22.73	0.187	22.53	0.179
			QPSK		1	1	22.37	0.173	**22.75**	**0.188**	22.51	0.178
			16QAM		1	1	21.15	0.130	**21.34**	**0.136**	21.17	0.131
			64QAM		1	1	19.95	0.099	20.19	0.104	19.98	0.100
			256QAM		1	1	17.69	0.059	17.89	0.062	17.68	0.059
			BPSK	Inner_1RB Right	1	49	22.32	0.171	22.58	0.181	22.36	0.172
			QPSK		1	49	22.32	0.171	22.48	0.177	22.28	0.169
			BPSK	Inner_Full	25	12	22.61	0.182	**22.88**	**0.194**	22.65	0.184
			QPSK		25	12	22.54	0.179	22.75	0.188	22.53	0.179
			BPSK	Outer_Full	50	0	22.02	0.159	22.25	0.168	22.04	0.160
			QPSK		50	0	21.52	0.142	21.70	0.148	21.49	0.141
			BPSK	Edge_1RB Left	1	0	21.89	0.155	22.11	0.163	21.87	0.154
			QPSK		1	0	21.45	0.140	21.62	0.145	21.42	0.139
			BPSK	Edge_Full Left	2	0	21.89	0.155	22.20	0.166	21.96	0.157
			QPSK		2	0	21.41	0.138	21.70	0.148	21.52	0.142
			BPSK	Edge_1RB Right	1	50	21.69	0.148	21.94	0.156	21.70	0.148
			QPSK		1	50	21.22	0.132	21.38	0.137	21.26	0.134
			BPSK	Edge_Full Right	2	49	21.80	0.151	22.04	0.160	21.81	0.152
			QPSK		2	49	21.31	0.135	21.46	0.140	21.33	0.136
		CP OFDM	QPSK	Inner_1RB Left	1	1	21.00	0.126	**21.29**	**0.135**	21.04	0.127
			16QAM		1	1	20.30	0.107	**20.54**	**0.113**	20.39	0.109

NR Band 41												
BW (㎒)	SCS (㎑)	Modulation		RB allocation	RB Size	RB Offset	Conducted Output Power					
							502200 (2 511.00 ㎒)		518598 (2 592.99 ㎒)		534996 (2 674.98 ㎒)	
							(dB m)	(W)	(dB m)	(W)	(dB m)	(W)
30	30	DFT-S OFDM	BPSK	Inner_1RB Left	1	1	22.83	0.192	22.86	0.193	22.78	0.190
			QPSK		1	1	22.79	0.190	**22.83**	**0.192**	22.74	0.188
			16QAM		1	1	21.45	0.140	**21.47**	**0.140**	21.37	0.137
			64QAM		1	1	20.31	0.107	20.32	0.108	20.18	0.104
			256QAM		1	1	17.97	0.063	18.07	0.064	17.94	0.062
			BPSK	Inner_1RB Right	1	76	22.47	0.177	22.53	0.179	22.52	0.179
			QPSK		1	76	22.41	0.174	22.50	0.178	22.52	0.179
			BPSK	Inner_Full	36	18	22.54	0.179	**22.93**	**0.196**	22.68	0.185
			QPSK		36	18	22.59	0.182	22.83	0.192	22.70	0.186
			BPSK	Outer_Full	75	0	22.27	0.169	22.25	0.168	22.25	0.168
			QPSK		75	0	21.81	0.152	21.76	0.150	21.69	0.148
			BPSK	Edge_1RB Left	1	0	22.27	0.169	22.24	0.167	22.12	0.163
			QPSK		1	0	21.78	0.151	21.78	0.151	21.64	0.146
			BPSK	Edge_Full Left	2	0	22.27	0.169	22.33	0.171	22.22	0.167
			QPSK		2	0	21.80	0.151	21.85	0.153	21.71	0.148
			BPSK	Edge_1RB Right	1	77	21.87	0.154	21.89	0.155	21.92	0.156
			QPSK		1	77	21.37	0.137	21.37	0.137	21.37	0.137
			BPSK	Edge_Full Right	2	76	21.92	0.156	22.00	0.158	22.01	0.159
			QPSK		2	76	21.46	0.140	21.46	0.140	21.51	0.142
		CP OFDM	QPSK	Inner_1RB Left	1	1	21.39	0.138	**21.48**	**0.141**	21.33	0.136
			16QAM		1	1	**20.68**	**0.117**	20.60	0.115	20.50	0.112

NR Band 41												
BW (㎒)	SCS (㎑)	Modulation		RB allocation	RB Size	RB Offset	Conducted Output Power					
							503202 (2 516.01 ㎒)		518598 (2 592.99 ㎒)		534000 (2 670.00 ㎒)	
							(dB m)	(W)	(dB m)	(W)	(dB m)	(W)
40	30	DFT-S OFDM	BPSK	Inner_1RB Left	1	1	**22.75**	**0.188**	22.73	0.187	22.52	0.179
			QPSK		1	1	**22.70**	**0.186**	22.67	0.185	22.45	0.176
			16QAM		1	1	21.31	0.135	**21.76**	**0.150**	21.19	0.132
			64QAM		1	1	20.25	0.106	20.11	0.103	19.96	0.099
			256QAM		1	1	18.04	0.064	17.90	0.062	17.72	0.059
			BPSK	Inner_1RB Right	1	104	22.16	0.164	22.13	0.163	22.35	0.172
			QPSK		1	104	22.12	0.163	22.11	0.163	22.29	0.169
			BPSK	Inner_Full	50	25	22.53	0.179	22.63	0.183	22.74	0.188
			QPSK		50	25	22.56	0.180	22.61	0.182	22.65	0.184
			BPSK	Outer_Full	100	0	22.21	0.166	21.55	0.143	22.11	0.163
			QPSK		100	0	21.66	0.147	21.61	0.145	21.60	0.145
			BPSK	Edge_1RB Left	1	0	22.17	0.165	21.56	0.143	21.92	0.156
			QPSK		1	0	21.64	0.146	21.62	0.145	21.45	0.140
			BPSK	Edge_Full Left	2	0	22.20	0.166	21.65	0.146	22.01	0.159
			QPSK		2	0	21.73	0.149	21.58	0.144	21.52	0.142
			BPSK	Edge_1RB Right	1	105	21.51	0.142	21.05	0.127	21.71	0.148
			QPSK		1	105	21.03	0.127	20.99	0.126	21.20	0.132
			BPSK	Edge_Full Right	2	104	21.60	0.145	21.09	0.129	21.76	0.150
			QPSK		2	104	21.06	0.128	21.08	0.128	21.29	0.135
		CP OFDM	QPSK	Inner_1RB Left	1	1	**21.34**	**0.136**	21.25	0.133	20.98	0.125
			16QAM		1	1	20.58	0.114	**20.86**	**0.122**	20.59	0.115

NR Band 41												
BW (㎒)	SCS (㎑)	Modulation		RB allocation	RB Size	RB Offset	Conducted Output Power					
							504204 (2 521.02 ㎒)		518598 (2 592.99 ㎒)		532998 (2 664.99 ㎒)	
							(dB m)	(W)	(dB m)	(W)	(dB m)	(W)
50	30	DFT-S OFDM	BPSK	Inner_1RB Left	1	1	**23.05**	**0.202**	22.93	0.196	22.83	0.192
			QPSK		1	1	**23.00**	**0.200**	22.91	0.195	22.73	0.187
			16QAM		1	1	**21.73**	**0.149**	21.48	0.141	21.46	0.140
			64QAM		1	1	20.58	0.114	20.37	0.109	20.29	0.107
			256QAM		1	1	18.32	0.068	18.21	0.066	17.97	0.063
			BPSK	Inner_1RB Right	1	131	22.29	0.169	22.48	0.177	22.47	0.177
			QPSK		1	131	22.14	0.164	22.36	0.172	22.39	0.173
			BPSK	Inner_Full	64	32	22.55	0.180	22.91	0.195	22.59	0.182
			QPSK		64	32	22.60	0.182	22.93	0.196	22.61	0.182
			BPSK	Outer_Full	128	0	22.40	0.174	22.50	0.178	22.27	0.169
			QPSK		128	0	21.87	0.154	22.00	0.158	21.81	0.152
			BPSK	Edge_1RB Left	1	0	22.48	0.177	22.31	0.170	22.21	0.166
			QPSK		1	0	22.02	0.159	21.81	0.152	21.72	0.149
			BPSK	Edge_Full Left	2	0	22.60	0.182	22.41	0.174	22.31	0.170
			QPSK		2	0	22.07	0.161	21.91	0.155	21.80	0.151
			BPSK	Edge_1RB Right	1	132	21.52	0.142	21.80	0.151	21.84	0.153
			QPSK		1	132	21.10	0.129	21.30	0.135	21.34	0.136
			BPSK	Edge_Full Right	2	131	21.66	0.147	21.91	0.155	21.93	0.156
			QPSK		2	131	21.21	0.132	21.38	0.137	21.41	0.138
		CP OFDM	QPSK	Inner_1RB Left	1	1	**21.67**	**0.147**	21.52	0.142	21.47	0.140
			16QAM		1	1	**20.86**	**0.122**	20.85	0.122	20.61	0.115

NR Band 41												
BW (MHz)	SCS (kHz)	Modulation		RB allocation	RB Size	RB Offset	Conducted Output Power					
							505200 (2 526.00 MHz)		518598 (2 592.99 MHz)		531996 (2 659.98 MHz)	
							(dB m)	(W)	(dB m)	(W)	(dB m)	(W)
60	30	DFT-S OFDM	BPSK	Inner_1RB Left	1	1	**22.82**	**0.191**	22.71	0.187	22.52	0.179
			QPSK		1	1	**22.78**	**0.190**	22.72	0.187	22.50	0.178
			16QAM		1	1	**21.44**	**0.139**	21.32	0.136	21.13	0.130
			64QAM		1	1	20.27	0.106	20.19	0.104	19.99	0.100
			256QAM		1	1	17.95	0.062	17.98	0.063	17.84	0.061
			BPSK	Inner_1RB Right	1	160	22.00	0.158	22.14	0.164	22.24	0.167
			QPSK		1	160	21.96	0.157	22.11	0.163	22.13	0.163
			BPSK	Inner_Full	81	40	22.54	0.179	22.75	0.188	22.54	0.179
			QPSK		81	40	22.48	0.177	22.70	0.186	22.45	0.176
			BPSK	Outer_Full	162	0	22.26	0.168	22.23	0.167	22.04	0.160
			QPSK		162	0	21.52	0.142	21.66	0.147	21.50	0.141
			BPSK	Edge_1RB Left	1	0	22.21	0.166	22.09	0.162	21.93	0.156
			QPSK		1	0	21.73	0.149	21.61	0.145	21.44	0.139
			BPSK	Edge_Full Left	2	0	22.34	0.171	22.19	0.166	22.01	0.159
			QPSK		2	0	21.83	0.152	21.70	0.148	21.52	0.142
			BPSK	Edge_1RB Right	1	161	21.42	0.139	21.53	0.142	21.62	0.145
			QPSK		1	161	20.86	0.122	21.02	0.126	21.09	0.129
			BPSK	Edge_Full Right	2	160	21.51	0.142	21.62	0.145	21.70	0.148
			QPSK		2	160	20.95	0.124	21.13	0.130	21.16	0.131
		CP OFDM	QPSK	Inner_1RB Left	1	1	21.31	0.135	**21.34**	**0.136**	21.16	0.131
			16QAM		1	1	**20.68**	**0.117**	20.58	0.114	20.38	0.109

NR Band 41												
BW (MHz)	SCS (kHz)	Modulation		RB allocation	RB Size	RB Offset	Conducted Output Power					
							506202 (2 531.01 MHz)		518598 (2 592.99 MHz)		531000 (2 655.00 MHz)	
							(dB m)	(W)	(dB m)	(W)	(dB m)	(W)
70	30	DFT-S OFDM	BPSK	Inner_1RB Left	1	1	**23.02**	**0.200**	22.83	0.192	22.67	0.185
			QPSK		1	1	**23.05**	**0.202**	22.79	0.190	22.66	0.185
			16QAM		1	1	**21.67**	**0.147**	21.45	0.140	21.28	0.134
			64QAM		1	1	20.53	0.113	20.31	0.107	20.06	0.101
			256QAM		1	1	18.37	0.069	17.94	0.062	17.81	0.060
			BPSK	Inner_1RB Right	1	187	22.16	0.164	22.05	0.160	22.20	0.166
			QPSK		1	187	22.08	0.161	22.06	0.161	22.23	0.167
			BPSK	Inner_Full	90	45	22.56	0.180	22.90	0.195	22.66	0.185
			QPSK		90	45	22.59	0.182	22.97	0.198	22.62	0.183
			BPSK	Outer_Full	180	0	22.26	0.168	22.29	0.169	22.18	0.165
			QPSK		180	0	21.64	0.146	21.80	0.151	21.64	0.146
			BPSK	Edge_1RB Left	1	0	22.43	0.175	22.21	0.166	22.08	0.161
			QPSK		1	0	21.96	0.157	21.73	0.149	21.53	0.142
			BPSK	Edge_Full Left	2	0	22.54	0.179	22.31	0.170	22.18	0.165
			QPSK		2	0	22.07	0.161	21.80	0.151	21.62	0.145
			BPSK	Edge_1RB Right	1	188	21.55	0.143	21.48	0.141	21.60	0.145
			QPSK		1	188	21.02	0.126	20.92	0.124	21.11	0.129
			BPSK	Edge_Full Right	2	187	21.60	0.145	21.59	0.144	21.71	0.148
			QPSK		2	187	21.10	0.129	21.03	0.127	21.20	0.132
		CP OFDM	QPSK	Inner_1RB Left	1	1	**21.62**	**0.145**	21.40	0.138	21.16	0.131
			16QAM		1	1	**20.92**	**0.124**	20.60	0.115	20.40	0.110

NR Band 41													
BW (MHz)	SCS (kHz)	Modulation		RB allocation	RB Size	RB Offset	Conducted Output Power						
							507204 (2 536.02 MHz)		518598 (2 592.99 MHz)		529998 (2 649.99 MHz)	
							(dB m)	(W)	(dB m)	(W)	(dB m)	(W)
80	30	DFT-S OFDM	BPSK	Inner_1RB Left	1	1	**23.11**	**0.205**	22.96	0.198	22.95	0.197
			QPSK		1	1	23.06	0.202	**23.10**	**0.204**	22.94	0.197
			16QAM		1	1	**21.71**	**0.148**	21.55	0.143	21.62	0.145
			64QAM		1	1	20.45	0.111	20.34	0.108	20.41	0.110
			256QAM		1	1	18.28	0.067	18.50	0.071	18.31	0.068
			BPSK	Inner_1RB Right	1	215	22.24	0.167	22.54	0.179	22.16	0.164
			QPSK		1	215	22.22	0.167	22.65	0.184	22.13	0.163
			BPSK	Inner_Full	108	54	22.53	0.179	22.82	0.191	22.76	0.189
			QPSK		108	54	22.61	0.182	22.94	0.197	22.74	0.188
			BPSK	Outer_Full	216	0	22.17	0.165	22.11	0.163	22.18	0.165
			QPSK		216	0	21.72	0.149	21.79	0.151	21.68	0.147
			BPSK	Edge_1RB Left	1	0	22.48	0.177	22.30	0.170	22.36	0.172
			QPSK		1	0	21.99	0.158	21.67	0.147	21.84	0.153
			BPSK	Edge_Full Left	2	0	22.53	0.179	22.43	0.175	22.47	0.177
			QPSK		2	0	22.05	0.160	21.92	0.156	21.92	0.156
			BPSK	Edge_1RB Right	1	216	21.67	0.147	21.15	0.130	21.57	0.144
			QPSK		1	216	21.15	0.130	20.80	0.120	21.07	0.128
			BPSK	Edge_Full Right	2	215	21.73	0.149	21.20	0.132	21.67	0.147
			QPSK		2	215	21.19	0.132	20.68	0.117	21.18	0.131
		CP OFDM	QPSK	Inner_1RB Left	1	1	**21.62**	**0.145**	21.26	0.134	21.49	0.141
			16QAM		1	1	**20.78**	**0.120**	20.74	0.119	20.70	0.117

NR Band 41													
BW (MHz)	SCS (kHz)	Modulation		RB allocation	RB Size	RB Offset	Conducted Output Power						
							508200 (2 541.00 MHz)		518598 (2 592.99 MHz)		528996 (2 644.98 MHz)	
							(dB m)	(W)	(dB m)	(W)	(dB m)	(W)
90	30	DFT-S OFDM	BPSK	Inner_1RB Left	1	1	23.16	0.207	22.83	0.192	**23.19**	**0.208**
			QPSK		1	1	23.11	0.205	22.97	0.198	**23.16**	**0.207**
			16QAM		1	1	21.80	0.151	21.53	0.142	**21.81**	**0.152**
			64QAM		1	1	20.57	0.114	20.49	0.112	20.67	0.117
			256QAM		1	1	18.41	0.069	18.54	0.071	18.51	0.071
			BPSK	Inner_1RB Right	1	243	22.25	0.168	21.59	0.144	22.07	0.161
			QPSK		1	243	22.25	0.168	21.70	0.148	22.06	0.161
			BPSK	Inner_Full	120	60	22.50	0.178	22.90	0.195	22.67	0.185
			QPSK		120	60	22.51	0.178	22.93	0.196	22.75	0.188
			BPSK	Outer_Full	243	0	22.25	0.168	22.22	0.167	22.29	0.169
			QPSK		243	0	21.73	0.149	21.75	0.150	21.79	0.151
			BPSK	Edge_1RB Left	1	0	22.68	0.185	22.23	0.167	22.70	0.186
			QPSK		1	0	22.15	0.164	21.72	0.149	22.21	0.166
			BPSK	Edge_Full Left	2	0	22.78	0.190	22.49	0.177	22.77	0.189
			QPSK		2	0	22.26	0.168	21.81	0.152	22.27	0.169
			BPSK	Edge_1RB Right	1	244	21.78	0.151	21.20	0.132	21.56	0.143
			QPSK		1	244	21.27	0.134	20.79	0.120	21.10	0.129
			BPSK	Edge_Full Right	2	243	21.88	0.154	21.25	0.133	21.68	0.147
			QPSK		2	243	21.33	0.136	20.83	0.121	21.17	0.131
		CP OFDM	QPSK	Inner_1RB Left	1	1	21.73	0.149	21.23	0.133	**21.78**	**0.151**
			16QAM		1	1	21.05	0.127	20.72	0.118	**21.05**	**0.127**

NR Band 41												
BW (㎒)	SCS (㎑)	Modulation		RB allocation	RB Size	RB Offset	Conducted Output Power					
							509202 (2 546.01 ㎒)		518598 (2 592.99 ㎒)		528000 (2 640.00 ㎒)	
							(dB m)	(W)	(dB m)	(W)	(dB m)	(W)
100	30	DFT-S OFDM	BPSK	Inner_1RB Left	1	1	**23.22**	**0.210**	22.97	0.198	23.18	0.208
			QPSK		1	1	**23.33**	**0.215**	23.22	0.210	23.30	0.214
			16QAM		1	1	**21.78**	**0.151**	21.68	0.147	21.77	0.150
			64QAM		1	1	20.67	0.117	20.50	0.112	20.63	0.116
			256QAM		1	1	18.78	0.076	18.59	0.072	18.76	0.075
			BPSK	Inner_1RB Right	1	271	22.37	0.173	21.78	0.151	22.05	0.160
			QPSK		1	271	22.31	0.170	21.81	0.152	22.07	0.161
			BPSK	Inner_Full	135	67	22.57	0.181	22.93	0.196	22.58	0.181
			QPSK		135	67	22.82	0.191	23.08	0.203	22.97	0.198
			BPSK	Outer_Full	270	0	22.23	0.167	22.24	0.167	22.33	0.171
			QPSK		270	0	21.70	0.148	21.79	0.151	21.89	0.155
			BPSK	Edge_1RB Left	1	0	22.63	0.183	22.38	0.173	22.55	0.180
			QPSK		1	0	22.08	0.161	21.86	0.153	22.06	0.161
			BPSK	Edge_Full Left	2	0	22.72	0.187	22.52	0.179	22.69	0.186
			QPSK		2	0	22.18	0.165	21.94	0.156	22.17	0.165
			BPSK	Edge_1RB Right	1	272	21.61	0.145	21.33	0.136	21.45	0.140
			QPSK		1	272	21.22	0.132	20.80	0.120	20.94	0.124
			BPSK	Edge_Full Right	2	271	21.77	0.150	21.39	0.138	21.56	0.143
			QPSK		2	271	21.25	0.133	20.85	0.122	21.03	0.127
		CP OFDM	QPSK	Inner_1RB Left	1	1	**21.63**	**0.146**	21.42	0.139	21.62	0.145
			16QAM		1	1	20.89	0.123	20.89	0.123	**20.90**	**0.123**

NR Band 77/78-Low Band												
BW (MHz)	SCS (kHz)	Modulation		RB allocation	RB Size	RB Offset	Conducted Output Power					
							630668 (3 460.02 MHz)		633334 (3 500.01 MHz)		636000 (3 540.00 MHz)	
							(dBm)	(W)	(dBm)	(W)	(dBm)	(W)
20	30	DFT-S OFDM	BPSK	Inner_1RB Left	1	1	23.29	0.213	23.21	0.209	23.33	0.215
			QPSK		1	1	23.24	0.211	23.19	0.208	**23.36**	**0.217**
			16QAM		1	1	21.85	0.153	21.81	0.152	**22.06**	**0.161**
			64QAM		1	1	20.81	0.121	20.70	0.117	20.86	0.122
			256QAM		1	1	18.75	0.075	18.35	0.068	18.62	0.073
			BPSK	Inner_1RB Right	1	49	23.09	0.204	23.18	0.208	23.09	0.204
			QPSK		1	49	23.06	0.202	23.13	0.206	23.05	0.202
			BPSK	Inner_Full	25	12	23.35	0.216	23.37	0.217	**23.40**	**0.219**
			QPSK		25	12	23.25	0.211	23.23	0.210	23.21	0.209
			BPSK	Outer_Full	50	0	22.73	0.187	22.80	0.191	22.81	0.191
			QPSK		50	0	22.22	0.167	22.22	0.167	22.28	0.169
			BPSK	Edge_1RB Left	1	0	22.69	0.186	22.61	0.182	22.73	0.187
			QPSK		1	0	22.15	0.164	22.11	0.163	22.25	0.168
			BPSK	Edge_Full Left	2	0	22.78	0.190	22.71	0.187	22.87	0.194
			QPSK		2	0	22.26	0.168	22.19	0.166	22.31	0.170
			BPSK	Edge_1RB Right	1	50	22.51	0.178	22.55	0.180	22.43	0.175
			QPSK		1	50	21.99	0.158	22.05	0.160	21.96	0.157
			BPSK	Edge_Full Right	2	49	22.58	0.181	22.65	0.184	22.54	0.179
			QPSK		2	49	22.08	0.161	22.14	0.164	22.04	0.160
		CP OFDM	QPSK	Inner_1RB Left	1	1	21.86	0.153	**21.92**	**0.156**	21.88	0.154
			16QAM		1	1	21.12	0.129	20.93	0.124	**21.30**	**0.135**

NR Band 77/78-Low Band												
BW (MHz)	SCS (kHz)	Modulation		RB allocation	RB Size	RB Offset	Conducted Output Power					
							631000 (3 465.00 MHz)		633334 (3 500.01 MHz)		635666 (3 534.99 MHz)	
							(dBm)	(W)	(dBm)	(W)	(dBm)	(W)
30	30	DFT-S OFDM	BPSK	Inner_1RB Left	1	1	23.28	0.213	23.47	0.222	**23.66**	**0.232**
			QPSK		1	1	23.29	0.213	23.39	0.218	23.58	0.228
			16QAM		1	1	21.94	0.156	22.13	0.163	**22.29**	**0.169**
			64QAM		1	1	20.72	0.118	20.94	0.124	21.12	0.129
			256QAM		1	1	18.82	0.076	18.61	0.073	18.54	0.071
			BPSK	Inner_1RB Right	1	76	23.26	0.212	23.37	0.217	23.29	0.213
			QPSK		1	76	23.18	0.208	23.34	0.216	23.18	0.208
			BPSK	Inner_Full	36	18	23.42	0.220	23.57	0.228	23.49	0.223
			QPSK		36	18	23.35	0.216	23.55	0.226	**23.61**	**0.230**
			BPSK	Outer_Full	75	0	22.83	0.192	22.95	0.197	23.08	0.203
			QPSK		75	0	22.32	0.171	22.45	0.176	22.49	0.177
			BPSK	Edge_1RB Left	1	0	22.78	0.190	22.88	0.194	23.09	0.204
			QPSK		1	0	22.19	0.166	22.37	0.173	22.55	0.180
			BPSK	Edge_Full Left	2	0	22.90	0.195	22.88	0.194	23.16	0.207
			QPSK		2	0	22.32	0.171	22.45	0.176	22.64	0.184
			BPSK	Edge_1RB Right	1	77	22.59	0.182	22.74	0.188	22.71	0.187
			QPSK		1	77	22.11	0.163	22.22	0.167	22.10	0.162
			BPSK	Edge_Full Right	2	76	22.68	0.185	22.85	0.193	22.83	0.192
			QPSK		2	76	22.21	0.166	22.36	0.172	22.25	0.168
		CP OFDM	QPSK	Inner_1RB Left	1	1	21.79	0.151	22.09	0.162	**22.15**	**0.164**
			16QAM		1	1	21.14	0.130	21.32	0.136	**21.43**	**0.139**

NR Band 77/78-Low Band												
BW (MHz)	SCS (kHz)	Modulation		RB allocation	RB Size	RB Offset	Conducted Output Power					
							631334 (3 470.01 MHz)		633334 (3 500.01 MHz)		635332 (3 529.98 MHz)	
							(dB m)	(W)	(dB m)	(W)	(dB m)	(W)
40	30	DFT-S OFDM	BPSK	Inner_1RB Left	1	1	23.16	0.207	23.35	0.216	23.46	0.222
			QPSK		1	1	23.26	0.212	23.33	0.215	23.43	0.220
			16QAM		1	1	21.80	0.151	22.09	0.162	**22.13**	**0.163**
			64QAM		1	1	20.65	0.116	20.84	0.121	20.89	0.123
			256QAM		1	1	18.72	0.074	18.63	0.073	18.63	0.073
			BPSK	Inner_1RB Right	1	104	23.13	0.206	23.28	0.213	23.07	0.203
			QPSK		1	104	23.08	0.203	23.21	0.209	23.00	0.200
			BPSK	Inner_Full	50	25	23.34	0.216	**23.52**	**0.225**	23.46	0.222
			QPSK		50	25	23.23	0.210	23.43	0.220	**23.47**	**0.222**
			BPSK	Outer_Full	100	0	22.67	0.185	22.94	0.197	22.97	0.198
			QPSK		100	0	22.17	0.165	22.44	0.175	22.44	0.175
			BPSK	Edge_1RB Left	1	0	22.71	0.187	22.78	0.190	22.86	0.193
			QPSK		1	0	22.03	0.160	22.27	0.169	22.40	0.174
			BPSK	Edge_Full Left	2	0	22.73	0.187	22.88	0.194	22.98	0.199
			QPSK		2	0	22.22	0.167	22.33	0.171	22.47	0.177
			BPSK	Edge_1RB Right	1	105	22.47	0.177	22.65	0.184	22.45	0.176
			QPSK		1	105	22.00	0.158	22.17	0.165	21.93	0.156
			BPSK	Edge_Full Right	2	104	22.54	0.179	22.75	0.188	22.55	0.180
			QPSK		2	104	22.21	0.166	22.27	0.169	22.02	0.159
		CP OFDM	QPSK	Inner_1RB Left	1	1	21.71	0.148	**22.07**	**0.161**	21.97	0.157
			16QAM		1	1	21.01	0.126	**21.27**	**0.134**	21.18	0.131

NR Band 77/78-Low Band												
BW (MHz)	SCS (kHz)	Modulation		RB allocation	RB Size	RB Offset	Conducted Output Power					
							631668 (3 475.02 MHz)		633334 (3 500.01 MHz)		635000 (3 525.00 MHz)	
							(dB m)	(W)	(dB m)	(W)	(dB m)	(W)
50	30	DFT-S OFDM	BPSK	Inner_1RB Left	1	1	23.47	0.222	23.51	0.224	23.51	0.224
			QPSK		1	1	23.51	0.224	23.46	0.222	**23.53**	**0.225**
			16QAM		1	1	22.16	0.164	22.05	0.160	**22.17**	**0.165**
			64QAM		1	1	21.02	0.126	20.99	0.126	21.07	0.128
			256QAM		1	1	19.08	0.081	18.68	0.074	19.06	0.081
			BPSK	Inner_1RB Right	1	131	23.27	0.212	23.33	0.215	23.12	0.205
			QPSK		1	131	23.22	0.210	23.29	0.213	23.08	0.203
			BPSK	Inner_Full	64	32	23.50	0.224	23.40	0.219	**23.55**	**0.226**
			QPSK		64	32	23.48	0.223	23.43	0.220	23.49	0.223
			BPSK	Outer_Full	128	0	22.94	0.197	23.04	0.201	22.93	0.196
			QPSK		128	0	22.45	0.176	22.57	0.181	22.50	0.178
			BPSK	Edge_1RB Left	1	0	22.92	0.196	22.95	0.197	22.89	0.195
			QPSK		1	0	22.38	0.173	22.40	0.174	22.44	0.175
			BPSK	Edge_Full Left	2	0	23.00	0.200	23.06	0.202	23.00	0.200
			QPSK		2	0	22.50	0.178	22.54	0.179	22.53	0.179
			BPSK	Edge_1RB Right	1	132	22.68	0.185	22.76	0.189	22.59	0.182
			QPSK		1	132	22.15	0.164	22.23	0.167	22.08	0.161
			BPSK	Edge_Full Right	2	131	22.78	0.190	22.89	0.195	22.68	0.185
			QPSK		2	131	22.24	0.167	22.32	0.171	22.10	0.162
		CP OFDM	QPSK	Inner_1RB Left	1	1	**22.28**	**0.169**	22.09	0.162	22.12	0.163
			16QAM		1	1	21.35	0.136	**21.43**	**0.139**	21.23	0.133

NR Band 77/78-Low Band												
BW (MHz)	SCS (kHz)	Modulation		RB allocation	RB Size	RB Offset	Conducted Output Power					
							632000 (3 480.00 MHz)		633334 (3 500.01 MHz)		634666 (3 519.99 MHz)	
							(dB m)	(W)	(dB m)	(W)	(dB m)	(W)
60	30	DFT-S OFDM	BPSK	Inner_1RB Left	1	1	23.26	0.212	23.35	0.216	23.31	0.214
			QPSK		1	1	**23.35**	**0.216**	23.30	0.214	23.29	0.213
			16QAM		1	1	21.99	0.158	**22.02**	**0.159**	21.87	0.154
			64QAM		1	1	20.92	0.124	20.81	0.121	20.78	0.120
			256QAM		1	1	18.89	0.077	18.57	0.072	18.16	0.065
			BPSK	Inner_1RB Right	1	160	23.10	0.204	23.10	0.204	23.01	0.200
			QPSK		1	160	23.08	0.203	23.10	0.204	22.91	0.195
			BPSK	Inner_Full	81	40	23.33	0.215	23.31	0.214	**23.38**	**0.218**
			QPSK		81	40	23.23	0.210	23.29	0.213	23.28	0.213
			BPSK	Outer_Full	162	0	22.79	0.190	22.82	0.191	22.89	0.195
			QPSK		162	0	22.28	0.169	22.35	0.172	22.30	0.170
			BPSK	Edge_1RB Left	1	0	22.80	0.191	22.74	0.188	22.75	0.188
			QPSK		1	0	22.13	0.163	22.24	0.167	22.20	0.166
			BPSK	Edge_Full Left	2	0	22.85	0.193	22.82	0.191	22.85	0.193
			QPSK		2	0	22.22	0.167	22.28	0.169	22.33	0.171
			BPSK	Edge_1RB Right	1	161	22.50	0.178	22.48	0.177	22.33	0.171
			QPSK		1	161	21.96	0.157	22.00	0.158	21.80	0.151
			BPSK	Edge_Full Right	2	160	22.57	0.181	22.56	0.180	22.42	0.175
			QPSK		2	160	22.05	0.160	22.09	0.162	21.90	0.155
		CP OFDM	QPSK	Inner_1RB Left	1	1	**21.96**	**0.157**	21.73	0.149	21.76	0.150
			16QAM		1	1	**21.38**	**0.137**	21.30	0.135	21.30	0.135

NR Band 77/78-Low Band												
BW (MHz)	SCS (kHz)	Modulation		RB allocation	RB Size	RB Offset	Conducted Output Power					
							632334 (3 485.01 MHz)		633334 (3 500.01 MHz)		634332 (3 514.98 MHz)	
							(dB m)	(W)	(dB m)	(W)	(dB m)	(W)
70	30	DFT-S OFDM	BPSK	Inner_1RB Left	1	1	23.30	0.214	23.36	0.217	23.50	0.224
			QPSK		1	1	23.26	0.212	23.33	0.215	23.38	0.218
			16QAM		1	1	21.84	0.153	**22.07**	**0.161**	21.91	0.155
			64QAM		1	1	20.85	0.122	20.86	0.122	20.93	0.124
			256QAM		1	1	18.39	0.069	18.64	0.073	18.66	0.073
			BPSK	Inner_1RB Right	1	187	23.17	0.207	23.08	0.203	22.95	0.197
			QPSK		1	187	23.13	0.206	23.08	0.203	22.88	0.194
			BPSK	Inner_Full	90	45	23.41	0.219	23.51	0.224	**23.53**	**0.225**
			QPSK		90	45	23.31	0.214	**23.49**	**0.223**	23.44	0.221
			BPSK	Outer_Full	180	0	22.81	0.191	22.98	0.199	23.05	0.202
			QPSK		180	0	22.27	0.169	22.44	0.175	22.58	0.181
			BPSK	Edge_1RB Left	1	0	22.70	0.186	22.78	0.190	22.91	0.195
			QPSK		1	0	22.21	0.166	22.24	0.167	22.39	0.173
			BPSK	Edge_Full Left	2	0	22.80	0.191	22.87	0.194	23.05	0.202
			QPSK		2	0	22.32	0.171	22.32	0.171	22.47	0.177
			BPSK	Edge_1RB Right	1	188	22.58	0.181	22.48	0.177	22.28	0.169
			QPSK		1	188	22.03	0.160	21.96	0.157	21.80	0.151
			BPSK	Edge_Full Right	2	187	22.68	0.185	22.59	0.182	22.42	0.175
			QPSK		2	187	22.19	0.166	22.08	0.161	21.93	0.156
		CP OFDM	QPSK	Inner_1RB Left	1	1	22.08	0.161	21.75	0.150	**22.23**	**0.167**
			16QAM		1	1	21.10	0.129	21.21	0.132	**21.24**	**0.133**

NR Band 77/78-Low Band												
BW (MHz)	SCS (kHz)	Modulation		RB allocation	RB Size	RB Offset	Conducted Output Power					
							632668 (3 490.02 MHz)		633334 (3 500.01 MHz)		634000 (3 510.00 MHz)	
							(dB m)	(W)	(dB m)	(W)	(dB m)	(W)
80	30	DFT-S OFDM	BPSK	Inner_1RB Left	1	1	23.43	0.220	23.40	0.219	23.40	0.219
			QPSK		1	1	23.41	0.219	23.41	0.219	23.38	0.218
			16QAM		1	1	21.95	0.157	**22.08**	**0.161**	22.02	0.159
			64QAM		1	1	20.92	0.124	20.90	0.123	20.85	0.122
			256QAM		1	1	18.94	0.078	18.58	0.072	18.27	0.067
			BPSK	Inner_1RB Right	1	215	23.10	0.204	23.05	0.202	22.92	0.196
			QPSK		1	215	23.10	0.204	23.03	0.201	22.88	0.194
			BPSK	Inner_Full	108	54	23.49	0.223	**23.54**	**0.226**	23.52	0.225
			QPSK		108	54	23.40	0.219	23.43	0.220	**23.54**	**0.226**
			BPSK	Outer_Full	216	0	22.82	0.191	22.85	0.193	22.98	0.199
			QPSK		216	0	22.38	0.173	22.38	0.173	22.46	0.176
			BPSK	Edge_1RB Left	1	0	22.85	0.193	22.81	0.191	22.79	0.190
			QPSK		1	0	22.34	0.171	22.33	0.171	22.31	0.170
			BPSK	Edge_Full Left	2	0	22.98	0.199	22.92	0.196	22.87	0.194
			QPSK		2	0	22.46	0.176	22.42	0.175	22.38	0.173
			BPSK	Edge_1RB Right	1	216	22.54	0.179	22.41	0.174	22.36	0.172
			QPSK		1	216	22.03	0.160	21.93	0.156	21.84	0.153
			BPSK	Edge_Full Right	2	215	22.66	0.185	22.53	0.179	22.42	0.175
			QPSK		2	215	22.16	0.164	22.02	0.159	21.96	0.157
		CP OFDM	QPSK	Inner_1RB Left	1	1	**22.22**	**0.167**	22.13	0.163	21.80	0.151
			16QAM		1	1	21.30	0.135	21.32	0.136	**21.36**	**0.137**

NR Band 77/78-Low Band												
BW (MHz)	SCS (kHz)	Modulation		RB allocation	RB Size	RB Offset	Conducted Output Power					
							633000 (3 495.00 MHz)		633334 (3 500.01 MHz)		633666 (3 504.99 MHz)	
							(dB m)	(W)	(dB m)	(W)	(dB m)	(W)
90	30	DFT-S OFDM	BPSK	Inner_1RB Left	1	1	23.42	0.220	23.39	0.218	23.41	0.219
			QPSK		1	1	23.39	0.218	23.39	0.218	**23.42**	**0.220**
			16QAM		1	1	21.88	0.154	**22.05**	**0.160**	22.01	0.159
			64QAM		1	1	20.88	0.122	20.91	0.123	20.99	0.126
			256QAM		1	1	18.95	0.079	18.44	0.070	18.64	0.073
			BPSK	Inner_1RB Right	1	243	23.09	0.204	22.89	0.195	22.87	0.194
			QPSK		1	243	23.01	0.200	22.89	0.195	22.76	0.189
			BPSK	Inner_Full	120	60	23.34	0.216	**23.53**	**0.225**	23.47	0.222
			QPSK		120	60	23.30	0.214	23.26	0.212	23.42	0.220
			BPSK	Outer_Full	243	0	22.82	0.191	22.91	0.195	22.97	0.198
			QPSK		243	0	22.28	0.169	22.43	0.175	22.50	0.178
			BPSK	Edge_1RB Left	1	0	22.92	0.196	22.89	0.195	22.95	0.197
			QPSK		1	0	22.42	0.175	22.39	0.173	22.47	0.177
			BPSK	Edge_Full Left	2	0	23.01	0.200	23.01	0.200	23.01	0.200
			QPSK		2	0	22.47	0.177	22.48	0.177	22.52	0.179
			BPSK	Edge_1RB Right	1	244	22.58	0.181	22.47	0.177	22.30	0.170
			QPSK		1	244	22.15	0.164	21.99	0.158	21.80	0.151
			BPSK	Edge_Full Right	2	243	22.69	0.186	22.58	0.181	22.39	0.173
			QPSK		2	243	22.19	0.166	22.06	0.161	21.89	0.155
		CP OFDM	QPSK	Inner_1RB Left	1	1	**22.04**	**0.160**	21.84	0.153	22.00	0.158
			16QAM		1	1	**21.44**	**0.139**	21.36	0.137	21.36	0.137

NR Band 77/78-Low Band													
BW (MHz)	SCS (kHz)	Modulation		RB allocation	RB Size	RB Offset	Conducted Output Power						
									633334 (3 500.01 MHz)				
									(dBm)	(W)			
100	30	DFT-S OFDM	BPSK	Inner_1RB Left	1	1	-	-	**23.66**	**0.232**	-	-	
			QPSK		1	1	-	-	**23.74**	**0.237**	-	-	
			16QAM		1	1	-	-	**22.07**	**0.161**	-	-	
			64QAM		1	1	-	-	21.12	0.129	-	-	
			256QAM		1	1	-	-	18.16	0.065	-	-	
			BPSK	Inner_1RB Right	1	271	-	-	22.84	0.192	-	-	
			QPSK		1	271	-	-	22.82	0.191	-	-	
			BPSK	Inner_Full	135	67	-	-	23.46	0.222	-	-	
			QPSK		135	67	-	-	23.56	0.227	-	-	
			BPSK	Outer_Full	270	0	-	-	22.91	0.195	-	-	
			QPSK		270	0	-	-	22.41	0.174	-	-	
			BPSK	Edge_1RB Left	1	0	-	-	22.87	0.194	-	-	
			QPSK		1	0	-	-	22.16	0.164	-	-	
			BPSK	Edge_Full Left	2	0	-	-	22.91	0.195	-	-	
			QPSK		2	0	-	-	22.38	0.173	-	-	
			BPSK	Edge_1RB Right	1	272	-	-	22.21	0.166	-	-	
			QPSK		1	272	-	-	21.75	0.150	-	-	
			BPSK	Edge_Full Right	2	271	-	-	22.38	0.173	-	-	
			QPSK		2	271	-	-	21.79	0.151	-	-	
		CP OFDM	QPSK	Inner_1RB Left	1	1	-	-	**21.87**	**0.154**	-	-	
			16QAM		1	1	-	-	**20.86**	**0.122**	-	-	

NR Band 77/78-High Band												
BW (MHz)	SCS (kHz)	Modulation		RB allocation	RB Size	RB Offset	Conducted Output Power					
							647334 (3 710.01 MHz)		656000 (3 840.00 MHz)		664666 (3 969.99 MHz)	
							(dB m)	(W)	(dB m)	(W)	(dB m)	(W)
20	30	DFT-S OFDM	BPSK	Inner_1RB Left	1	1	23.34	0.216	23.73	0.236	23.11	0.205
			QPSK		1	1	23.30	0.214	23.75	0.237	23.15	0.207
			16QAM		1	1	21.92	0.156	**22.45**	**0.176**	21.77	0.150
			64QAM		1	1	20.82	0.121	21.27	0.134	20.58	0.114
			256QAM		1	1	18.63	0.073	18.86	0.077	17.95	0.062
			BPSK	Inner_1RB Right	1	49	23.19	0.208	23.58	0.228	23.03	0.201
			QPSK		1	49	23.12	0.205	23.60	0.229	22.97	0.198
			BPSK	Inner_Full	25	12	23.25	0.211	**23.79**	**0.239**	23.12	0.205
			QPSK		25	12	23.27	0.212	**23.76**	**0.238**	23.08	0.203
			BPSK	Outer_Full	50	0	22.87	0.194	23.27	0.212	22.54	0.179
			QPSK		50	0	22.36	0.172	22.71	0.187	22.07	0.161
			BPSK	Edge_1RB Left	1	0	22.70	0.186	23.14	0.206	22.55	0.180
			QPSK		1	0	22.20	0.166	22.66	0.185	21.98	0.158
			BPSK	Edge_Full Left	2	0	22.82	0.191	23.24	0.211	22.65	0.184
			QPSK		2	0	22.29	0.169	22.70	0.186	22.07	0.161
			BPSK	Edge_1RB Right	1	50	22.52	0.179	23.00	0.200	22.40	0.174
			QPSK		1	50	22.00	0.158	22.48	0.177	21.84	0.153
			BPSK	Edge_Full Right	2	49	22.64	0.184	23.09	0.204	22.42	0.175
			QPSK		2	49	22.11	0.163	22.55	0.180	21.93	0.156
		CP OFDM	QPSK	Inner_1RB Left	1	1	21.74	0.149	**22.42**	**0.175**	21.86	0.153
			16QAM		1	1	21.16	0.131	**21.56**	**0.143**	20.82	0.121

NR Band 77/78-High Band												
BW (MHz)	SCS (kHz)	Modulation		RB allocation	RB Size	RB Offset	Conducted Output Power					
							647668 (3 715.02 MHz)		656000 (3 840.00 MHz)		664332 (3 964.98 MHz)	
							(dB m)	(W)	(dB m)	(W)	(dB m)	(W)
30	30	DFT-S OFDM	BPSK	Inner_1RB Left	1	1	23.56	0.227	**23.92**	**0.247**	23.40	0.219
			QPSK		1	1	23.48	0.223	23.83	0.242	23.40	0.219
			16QAM		1	1	22.24	0.167	**22.48**	**0.177**	21.92	0.156
			64QAM		1	1	21.09	0.129	21.32	0.136	20.79	0.120
			256QAM		1	1	18.82	0.076	19.41	0.087	18.73	0.075
			BPSK	Inner_1RB Right	1	76	23.20	0.209	23.87	0.244	23.11	0.205
			QPSK		1	76	23.16	0.207	23.74	0.237	22.97	0.198
			BPSK	Inner_Full	36	18	23.24	0.211	23.92	0.247	23.33	0.215
			QPSK		36	18	23.21	0.209	**23.90**	**0.245**	23.32	0.215
			BPSK	Outer_Full	75	0	22.89	0.195	23.39	0.218	22.80	0.191
			QPSK		75	0	22.41	0.174	22.85	0.193	22.22	0.167
			BPSK	Edge_1RB Left	1	0	22.90	0.195	23.30	0.214	22.80	0.191
			QPSK		1	0	22.47	0.177	22.81	0.191	22.31	0.170
			BPSK	Edge_Full Left	2	0	23.02	0.200	23.38	0.218	22.47	0.177
			QPSK		2	0	22.53	0.179	22.89	0.195	22.39	0.173
			BPSK	Edge_1RB Right	1	77	22.54	0.179	23.24	0.211	22.47	0.177
			QPSK		1	77	22.05	0.160	22.69	0.186	21.91	0.155
			BPSK	Edge_Full Right	2	76	22.65	0.184	23.28	0.213	22.58	0.181
			QPSK		2	76	22.17	0.165	22.76	0.189	22.00	0.158
		CP OFDM	QPSK	Inner_1RB Left	1	1	22.16	0.164	**22.27**	**0.169**	21.90	0.155
			16QAM		1	1	21.31	0.135	**21.77**	**0.150**	21.12	0.129

NR Band 77/78-High Band												
BW (MHz)	SCS (kHz)	Modulation		RB allocation	RB Size	RB Offset	Conducted Output Power					
							648000 (3 720.00 MHz)		656000 (3 840.00 MHz)		664000 (3 960.00 MHz)	
							(dB m)	(W)	(dB m)	(W)	(dB m)	(W)
40	30	DFT-S OFDM	BPSK	Inner_1RB Left	1	1	23.57	0.228	23.81	0.240	23.32	0.215
			QPSK		1	1	23.51	0.224	23.74	0.237	23.28	0.213
			16QAM		1	1	22.11	0.163	**22.46**	**0.176**	21.96	0.157
			64QAM		1	1	20.94	0.124	21.32	0.136	20.81	0.121
			256QAM		1	1	18.41	0.069	18.73	0.075	18.66	0.073
			BPSK	Inner_1RB Right	1	104	22.90	0.195	23.59	0.229	22.96	0.198
			QPSK		1	104	22.90	0.195	23.61	0.230	22.92	0.196
			BPSK	Inner_Full	50	25	23.31	0.214	**23.89**	**0.245**	23.37	0.217
			QPSK		50	25	23.28	0.213	**23.86**	**0.243**	23.30	0.214
			BPSK	Outer_Full	100	0	22.92	0.196	23.38	0.218	22.84	0.192
			QPSK		100	0	22.39	0.173	22.86	0.193	22.28	0.169
			BPSK	Edge_1RB Left	1	0	22.94	0.197	23.20	0.209	22.80	0.191
			QPSK		1	0	22.46	0.176	22.76	0.189	22.27	0.169
			BPSK	Edge_Full Left	2	0	23.05	0.202	23.28	0.213	22.80	0.191
			QPSK		2	0	22.53	0.179	22.84	0.192	22.36	0.172
			BPSK	Edge_1RB Right	1	105	22.32	0.171	23.02	0.200	22.31	0.170
			QPSK		1	105	21.84	0.153	22.52	0.179	21.79	0.151
			BPSK	Edge_Full Right	2	104	22.42	0.175	23.13	0.206	22.42	0.175
			QPSK		2	104	21.93	0.156	22.60	0.182	21.90	0.155
		CP OFDM	QPSK	Inner_1RB Left	1	1	21.98	0.158	**22.51**	**0.178**	22.07	0.161
			16QAM		1	1	21.39	0.138	**21.50**	**0.141**	21.09	0.129

NR Band 77/78-High Band												
BW (MHz)	SCS (kHz)	Modulation		RB allocation	RB Size	RB Offset	Conducted Output Power					
							648334 (3 725.01 MHz)		656000 (3 840.00 MHz)		663666 (3 954.99 MHz)	
							(dB m)	(W)	(dB m)	(W)	(dB m)	(W)
50	30	DFT-S OFDM	BPSK	Inner_1RB Left	1	1	23.66	0.232	**23.96**	**0.249**	23.63	0.231
			QPSK		1	1	23.54	0.226	23.88	0.244	23.63	0.231
			16QAM		1	1	22.47	0.177	**22.55**	**0.180**	22.27	0.169
			64QAM		1	1	21.16	0.131	21.30	0.135	21.18	0.131
			256QAM		1	1	18.81	0.076	19.49	0.089	18.74	0.075
			BPSK	Inner_1RB Right	1	131	23.08	0.203	23.72	0.236	22.99	0.199
			QPSK		1	131	23.03	0.201	23.71	0.235	22.88	0.194
			BPSK	Inner_Full	64	32	23.25	0.211	23.91	0.246	23.53	0.225
			QPSK		64	32	23.26	0.212	**23.92**	**0.247**	23.41	0.219
			BPSK	Outer_Full	128	0	22.92	0.196	23.52	0.225	22.89	0.195
			QPSK		128	0	22.41	0.174	22.96	0.198	22.37	0.173
			BPSK	Edge_1RB Left	1	0	23.06	0.202	23.34	0.216	23.09	0.204
			QPSK		1	0	22.56	0.180	22.81	0.191	22.49	0.177
			BPSK	Edge_Full Left	2	0	23.12	0.205	23.43	0.220	23.22	0.210
			QPSK		2	0	22.61	0.182	22.88	0.194	22.67	0.185
			BPSK	Edge_1RB Right	1	132	22.44	0.175	23.16	0.207	22.41	0.174
			QPSK		1	132	21.93	0.156	22.63	0.183	21.84	0.153
			BPSK	Edge_Full Right	2	131	22.50	0.178	23.25	0.211	22.52	0.179
			QPSK		2	131	22.00	0.158	22.72	0.187	22.03	0.160
		CP OFDM	QPSK	Inner_1RB Left	1	1	22.18	0.165	**22.71**	**0.187**	22.28	0.169
			16QAM		1	1	21.48	0.141	**21.82**	**0.152**	21.62	0.145

NR Band 77/78-High Band												
BW (MHz)	SCS (kHz)	Modulation		RB allocation	RB Size	RB Offset	Conducted Output Power					
							648668 (3 730.02 MHz)		656000 (3 840.00 MHz)		663332 (3 949.98 MHz)	
							(dB m)	(W)	(dB m)	(W)	(dB m)	(W)
60	30	DFT-S OFDM	BPSK	Inner_1RB Left	1	1	23.53	0.225	**23.80**	**0.240**	23.55	0.226
			QPSK		1	1	23.51	0.224	**23.76**	**0.238**	23.57	0.228
			16QAM		1	1	22.14	0.164	**22.32**	**0.171**	22.18	0.165
			64QAM		1	1	21.05	0.127	21.21	0.132	20.99	0.126
			256QAM		1	1	18.68	0.074	19.32	0.086	18.78	0.076
			BPSK	Inner_1RB Right	1	160	22.85	0.193	23.47	0.222	22.97	0.198
			QPSK		1	160	22.79	0.190	23.40	0.219	22.93	0.196
			BPSK	Inner_Full	81	40	23.30	0.214	23.77	0.238	23.33	0.215
			QPSK		81	40	23.19	0.208	23.66	0.232	23.22	0.210
			BPSK	Outer_Full	162	0	22.82	0.191	23.26	0.212	22.84	0.192
			QPSK		162	0	22.26	0.168	22.75	0.188	22.32	0.171
			BPSK	Edge_1RB Left	1	0	22.92	0.196	23.20	0.209	23.02	0.200
			QPSK		1	0	22.45	0.176	22.69	0.186	22.41	0.174
			BPSK	Edge_Full Left	2	0	23.01	0.200	23.28	0.213	23.10	0.204
			QPSK		2	0	22.56	0.180	22.73	0.187	22.51	0.178
			BPSK	Edge_1RB Right	1	161	22.26	0.168	22.85	0.193	22.34	0.171
			QPSK		1	161	21.71	0.148	22.33	0.171	21.87	0.154
			BPSK	Edge_Full Right	2	160	22.34	0.171	22.97	0.198	22.46	0.176
			QPSK		2	160	21.82	0.152	22.44	0.175	22.02	0.159
		CP OFDM	QPSK	Inner_1RB Left	1	1	21.87	0.154	22.14	0.164	**22.32**	**0.171**
			16QAM		1	1	21.26	0.134	**21.55**	**0.143**	21.46	0.140

NR Band 77/78-High Band												
BW (MHz)	SCS (kHz)	Modulation		RB allocation	RB Size	RB Offset	Conducted Output Power					
							649000 (3 735.00 MHz)		656000 (3 840.00 MHz)		663000 (3 945.00 MHz)	
							(dB m)	(W)	(dB m)	(W)	(dB m)	(W)
70	30	DFT-S OFDM	BPSK	Inner_1RB Left	1	1	23.41	0.219	23.84	0.242	23.65	0.232
			QPSK		1	1	23.39	0.218	23.81	0.240	23.54	0.226
			16QAM		1	1	22.00	0.158	**22.41**	**0.174**	22.31	0.170
			64QAM		1	1	20.96	0.125	21.26	0.134	21.09	0.129
			256QAM		1	1	18.33	0.068	18.76	0.075	18.53	0.071
			BPSK	Inner_1RB Right	1	187	23.05	0.202	23.50	0.224	22.97	0.198
			QPSK		1	187	22.97	0.198	23.46	0.222	23.01	0.200
			BPSK	Inner_Full	90	45	23.32	0.215	**23.85**	**0.243**	23.60	0.229
			QPSK		90	45	23.26	0.212	**23.87**	**0.244**	23.54	0.226
			BPSK	Outer_Full	180	0	22.87	0.194	23.33	0.215	22.96	0.198
			QPSK		180	0	22.24	0.167	22.79	0.190	22.46	0.176
			BPSK	Edge_1RB Left	1	0	22.93	0.196	23.20	0.209	23.01	0.200
			QPSK		1	0	22.33	0.171	22.69	0.186	22.50	0.178
			BPSK	Edge_Full Left	2	0	22.99	0.199	23.27	0.212	23.08	0.203
			QPSK		2	0	22.44	0.175	22.77	0.189	22.57	0.181
			BPSK	Edge_1RB Right	1	188	22.52	0.179	22.87	0.194	22.37	0.173
			QPSK		1	188	22.06	0.161	22.38	0.173	21.93	0.156
			BPSK	Edge_Full Right	2	187	22.53	0.179	22.98	0.199	22.47	0.177
			QPSK		2	187	22.03	0.160	22.47	0.177	22.00	0.158
		CP OFDM	QPSK	Inner_1RB Left	1	1	21.83	0.152	22.22	0.167	**22.24**	**0.167**
			16QAM		1	1	21.18	0.131	**21.68**	**0.147**	21.40	0.138

NR Band 77/78-High Band												
BW (MHz)	SCS (kHz)	Modulation		RB allocation	RB Size	RB Offset	Conducted Output Power					
							649334 (3 740.01 MHz)		656000 (3 840.00 MHz)		662666 (3 939.99 MHz)	
							(dBm)	(W)	(dBm)	(W)	(dBm)	(W)
80	30	DFT-S OFDM	BPSK	Inner_1RB Left	1	1	23.57	0.228	**23.93**	**0.247**	23.71	0.235
			QPSK		1	1	23.55	0.226	23.84	0.242	23.66	0.232
			16QAM		1	1	22.10	0.162	**22.63**	**0.183**	22.26	0.168
			64QAM		1	1	21.11	0.129	21.40	0.138	21.15	0.130
			256QAM		1	1	18.79	0.076	19.11	0.081	18.66	0.073
			BPSK	Inner_1RB Right	1	215	23.14	0.206	23.45	0.221	22.92	0.196
			QPSK		1	215	23.08	0.203	23.42	0.220	22.87	0.194
			BPSK	Inner_Full	108	54	23.32	0.215	23.72	0.236	23.65	0.232
			QPSK		108	54	23.30	0.214	**23.89**	**0.245**	23.62	0.230
			BPSK	Outer_Full	216	0	22.86	0.193	23.33	0.215	23.05	0.202
			QPSK		216	0	22.27	0.169	22.80	0.191	22.51	0.178
			BPSK	Edge_1RB Left	1	0	22.96	0.198	23.33	0.215	23.09	0.204
			QPSK		1	0	22.48	0.177	22.86	0.193	22.59	0.182
			BPSK	Edge_Full Left	2	0	23.09	0.204	23.43	0.220	23.20	0.209
			QPSK		2	0	22.56	0.180	22.93	0.196	22.70	0.186
			BPSK	Edge_1RB Right	1	216	22.51	0.178	22.81	0.191	22.28	0.169
			QPSK		1	216	21.99	0.158	22.39	0.173	21.74	0.149
			BPSK	Edge_Full Right	2	215	22.59	0.182	22.93	0.196	22.38	0.173
			QPSK		2	215	22.08	0.161	22.46	0.176	21.83	0.152
		CP OFDM	QPSK	Inner_1RB Left	1	1	22.17	0.165	**22.47**	**0.177**	22.45	0.176
			16QAM		1	1	21.32	0.136	**21.85**	**0.153**	21.58	0.144

NR Band 77/78-High Band												
BW (MHz)	SCS (kHz)	Modulation		RB allocation	RB Size	RB Offset	Conducted Output Power					
							649668 (3 745.02 MHz)		656000 (3 840.00 MHz)		662332 (3 934.98 MHz)	
							(dBm)	(W)	(dBm)	(W)	(dBm)	(W)
90	30	DFT-S OFDM	BPSK	Inner_1RB Left	1	1	23.53	0.225	**23.91**	**0.246**	23.80	0.240
			QPSK		1	1	23.48	0.223	**23.86**	**0.243**	23.81	0.240
			16QAM		1	1	22.17	0.165	**22.44**	**0.175**	22.36	0.172
			64QAM		1	1	20.99	0.126	21.26	0.134	21.26	0.134
			256QAM		1	1	18.39	0.069	19.45	0.088	19.22	0.084
			BPSK	Inner_1RB Right	1	243	23.18	0.208	23.41	0.219	22.74	0.188
			QPSK		1	243	23.19	0.208	23.31	0.214	22.72	0.187
			BPSK	Inner_Full	120	60	23.24	0.211	23.29	0.213	23.27	0.212
			QPSK		120	60	23.23	0.210	23.18	0.208	23.15	0.207
			BPSK	Outer_Full	243	0	22.84	0.192	23.29	0.213	23.10	0.204
			QPSK		243	0	22.34	0.171	22.76	0.189	22.53	0.179
			BPSK	Edge_1RB Left	1	0	23.05	0.202	23.36	0.217	23.31	0.214
			QPSK		1	0	22.85	0.193	22.96	0.198	22.92	0.196
			BPSK	Edge_Full Left	2	0	23.15	0.207	23.44	0.221	23.40	0.219
			QPSK		2	0	22.63	0.183	22.93	0.196	22.96	0.198
			BPSK	Edge_1RB Right	1	244	22.67	0.185	22.91	0.195	22.22	0.167
			QPSK		1	244	22.20	0.166	22.37	0.173	21.77	0.150
			BPSK	Edge_Full Right	2	243	22.76	0.189	22.99	0.199	22.32	0.171
			QPSK		2	243	22.25	0.168	22.45	0.176	21.85	0.153
		CP OFDM	QPSK	Inner_1RB Left	1	1	21.91	0.155	**22.46**	**0.176**	22.27	0.169
			16QAM		1	1	21.38	0.137	21.85	0.153	**21.93**	**0.156**

NR Band 77/78-High Band												
BW (MHz)	SCS (kHz)	Modulation		RB allocation	RB Size	RB Offset	Conducted Output Power					
							650000 (3 750.00 MHz)		656000 (3 840.00 MHz)		662000 (3 930.00 MHz)	
							(dB m)	(W)	(dB m)	(W)	(dB m)	(W)
100	30	DFT-S OFDM	BPSK	Inner_1RB Left	1	1	23.59	0.229	**23.92**	**0.247**	23.83	0.242
			QPSK		1	1	23.71	0.235	**24.12**	**0.258**	23.90	0.245
			16QAM		1	1	22.26	0.168	**22.61**	**0.182**	22.31	0.170
			64QAM		1	1	21.02	0.126	21.42	0.139	21.31	0.135
			256QAM		1	1	18.49	0.071	19.49	0.089	18.76	0.075
			BPSK	Inner_1RB Right	1	271	22.97	0.198	23.28	0.213	22.84	0.192
			QPSK		1	271	22.96	0.198	23.26	0.212	22.86	0.193
			BPSK	Inner_Full	135	67	23.24	0.211	23.82	0.241	23.58	0.228
			QPSK		135	67	23.33	0.215	23.95	0.248	23.69	0.234
			BPSK	Outer_Full	270	0	22.87	0.194	23.31	0.214	23.10	0.204
			QPSK		270	0	22.37	0.173	22.82	0.191	22.60	0.182
			BPSK	Edge_1RB Left	1	0	22.97	0.198	23.33	0.215	23.19	0.208
			QPSK		1	0	22.51	0.178	22.82	0.191	22.73	0.187
			BPSK	Edge_Full Left	2	0	23.07	0.203	23.42	0.220	23.28	0.213
			QPSK		2	0	22.63	0.183	22.88	0.194	22.81	0.191
			BPSK	Edge_1RB Right	1	272	22.40	0.174	22.73	0.187	22.28	0.169
			QPSK		1	272	21.88	0.154	22.14	0.164	21.73	0.149
			BPSK	Edge_Full Right	2	271	22.44	0.175	22.79	0.190	22.34	0.171
			QPSK		2	271	21.95	0.157	22.28	0.169	21.83	0.152
		CP OFDM	QPSK	Inner_1RB Left	1	1	22.00	0.158	22.42	0.175	**22.55**	**0.180**
			16QAM		1	1	21.49	0.141	21.65	0.146	**21.77**	**0.150**

ENDC

41A-n77A-Low Band												
BW (MHz)	SCS (kHz)	Modulation		RB allocation	RB Size	RB Offset	Conducted Output Power					
									633334 (3 500.01 MHz)			
									(dBm)	(W)		
100	30	DFT-S OFDM	BPSK	Inner_1RB	1	1	-	-	23.57	0.228	-	-
			QPSK	Left	1	1	-	-	**23.60**	**0.229**	-	-
			BPSK	Inner_1RB	1	271	-	-	22.75	0.188	-	-
			QPSK	Right	1	271	-	-	22.69	0.186	-	-

5A-n78A-Low Band												
BW (MHz)	SCS (kHz)	Modulation		RB allocation	RB Size	RB Offset	Conducted Output Power					
									633334 (3 500.01 MHz)			
									(dBm)	(W)		
100	30	DFT-S OFDM	BPSK	Inner_1RB	1	1	-	-	23.49	0.223	-	-
			QPSK	Left	1	1	-	-	**23.57**	**0.228**	-	-
			BPSK	Inner_1RB	1	271	-	-	22.68	0.185	-	-
			QPSK	Right	1	271	-	-	22.62	0.183	-	-

7A-n78A-Low Band												
BW (MHz)	SCS (kHz)	Modulation		RB allocation	RB Size	RB Offset	Conducted Output Power					
									633334 (3 500.01 MHz)			
									(dBm)	(W)		
100	30	DFT-S OFDM	BPSK	Inner_1RB	1	1	-	-	23.52	0.225	-	-
			QPSK	Left	1	1	-	-	**23.48**	**0.223**	-	-
			BPSK	Inner_1RB	1	271	-	-	22.70	0.186	-	-
			QPSK	Right	1	271	-	-	22.73	0.187	-	-

38A-n78A-Low Band												
BW (MHz)	SCS (kHz)	Modulation		RB allocation	RB Size	RB Offset	Conducted Output Power					
									633334 (3 500.01 MHz)			
									(dBm)	(W)		
100	30	DFT-S OFDM	BPSK	Inner_1RB	1	1	-	-	23.60	0.230	-	-
			QPSK	Left	1	1	-	-	**23.62**	**0.229**	-	-
			BPSK	Inner_1RB	1	271	-	-	22.72	0.187	-	-
			QPSK	Right	1	271	-	-	22.67	0.185	-	-

41A-n78A-Low Band												
BW (MHz)	SCS (kHz)	Modulation		RB allocation	RB Size	RB Offset	Conducted Output Power					
									633334 (3 500.01 MHz)			
									(dBm)	(W)		
100	30	DFT-S OFDM	BPSK	Inner_1RB	1	1	-	-	23.48	0.223	-	-
			QPSK	Left	1	1	-	-	**23.53**	**0.225**	-	-
			BPSK	Inner_1RB	1	271	-	-	22.67	0.185	-	-
			QPSK	Right	1	271	-	-	22.65	0.184	-	-

41A-n77A-High Band												
BW (MHz)	SCS (kHz)	Modulation		RB allocation	RB Size	RB Offset	Conducted Output Power					
							650000 (3 750.00 MHz)		656000 (3 840.00 MHz)		662000 (3 930.00 MHz)	
							(dB m)	(W)	(dB m)	(W)	(dB m)	(W)
100	30	DFT-S OFDM	BPSK	Inner_1RB Left	1	1	23.41	0.219	23.81	0.240	23.80	0.240
			QPSK		1	1	23.37	0.217	23.74	0.237	**23.81**	**0.240**
			BPSK	Inner_1RB Right	1	271	22.96	0.198	23.32	0.215	22.86	0.193
			QPSK		1	271	22.86	0.193	23.26	0.212	22.80	0.191
5A-n78A-High Band												
BW (MHz)	SCS (kHz)	Modulation		RB allocation	RB Size	RB Offset	Conducted Output Power					
									650000 (3 750.00 MHz)			
									(dB m)	(W)		
100	30	DFT-S OFDM	BPSK	Inner_1RB Left	1	1	-	-	23.70	0.234	-	-
			QPSK		1	1	-	-	**23.75**	**0.237**	-	-
			BPSK	Inner_1RB Right	1	271	-	-	23.39	0.218	-	-
			QPSK		1	271	-	-	23.34	0.216	-	-
7A-n78A-High Band												
BW (MHz)	SCS (kHz)	Modulation		RB allocation	RB Size	RB Offset	Conducted Output Power					
									650000 (3 750.00 MHz)			
									(dB m)	(W)		
100	30	DFT-S OFDM	BPSK	Inner_1RB Left	1	1	-	-	23.68	0.232	-	-
			QPSK		1	1	-	-	**23.66**	**0.233**	-	-
			BPSK	Inner_1RB Right	1	271	-	-	23.34	0.216	-	-
			QPSK		1	271	-	-	23.28	0.213	-	-
38A-n78A-High Band												
BW (MHz)	SCS (kHz)	Modulation		RB allocation	RB Size	RB Offset	Conducted Output Power					
									650000 (3 750.00 MHz)			
									(dB m)	(W)		
100	30	DFT-S OFDM	BPSK	Inner_1RB Left	1	1	-	-	23.63	0.231	-	-
			QPSK		1	1	-	-	**23.63**	**0.231**	-	-
			BPSK	Inner_1RB Right	1	271	-	-	23.33	0.215	-	-
			QPSK		1	271	-	-	23.17	0.207	-	-
41A-n78A-High Band												
BW (MHz)	SCS (kHz)	Modulation		RB allocation	RB Size	RB Offset	Conducted Output Power					
									650000 (3 750.00 MHz)			
									(dB m)	(W)		
100	30	DFT-S OFDM	BPSK	Inner_1RB Left	1	1	-	-	23.57	0.228	-	-
			QPSK		1	1	-	-	**23.67**	**0.233**	-	-
			BPSK	Inner_1RB Right	1	271	-	-	23.33	0.215	-	-
			QPSK		1	271	-	-	23.05	0.202	-	-

Note ;

The ENDC combination were compared at the bandwidth of the worst output of the SA mode.

4. Occupied Bandwidth

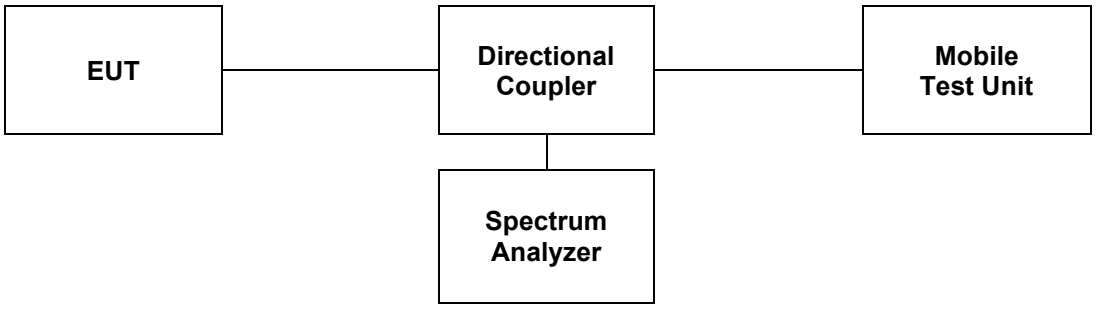
4.1. Limit

CFR 47, Section FCC §2.1049.

4.2. Test Procedure

The test follows section 5.4.4 of ANSI C63.26-2015.

a. The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The frequency span for the spectrum analyzer shall be set wide enough to capture all modulation. products including the emission skirts (typically a span of 1.5 × OBW is sufficient).
b. The nominal IF filter 3 dB bandwidth (RBW) shall be in the range of 1 % to 5 % of the anticipated OBW, and the VBW shall be set ≥ 3 × RBW.
c. Set the reference level of the instrument as required to prevent the signal amplitude from exceeding the maximum spectrum analyzer input mixer level for linear operation. See guidance provided in 4.2.3.
d. Set the detection mode to peak, and the trace mode to max-hold.
e. If the instrument does not have a 99 % OBW function, recover the trace data points and sum directly in linear power terms. Place the recovered amplitude data points, beginning at the lowest frequency, in a running sum until 0.5 % of the total is reached. Record that frequency as the lower OBW frequency. Repeat the process until 99.5 % of the total is reached and record that frequency as the upper OBW frequency. The 99 % power OBW can be determined by computing the difference these two frequencies.
f. The OBW shall be reported and plot(s) of the measuring instrument display shall be provided with the test report. The frequency and amplitude axis and scale shall be clearly labeled. Tabular data can be reported in addition to the plot(s).



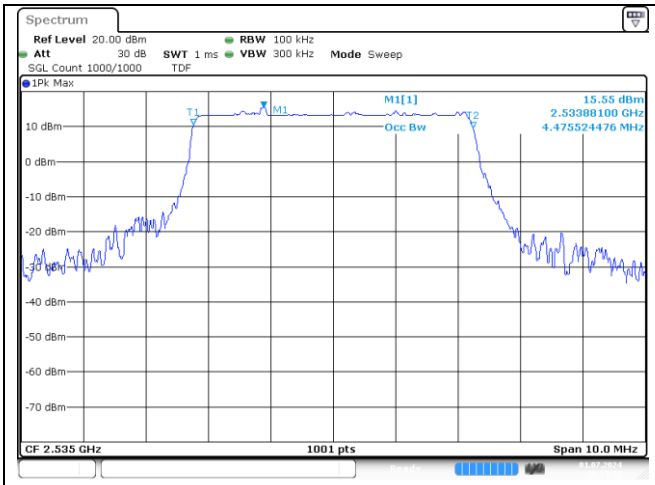
4.3 Test Results

Ambient temperature : (23 ± 1) ℃
Relative humidity : 47 % R.H.

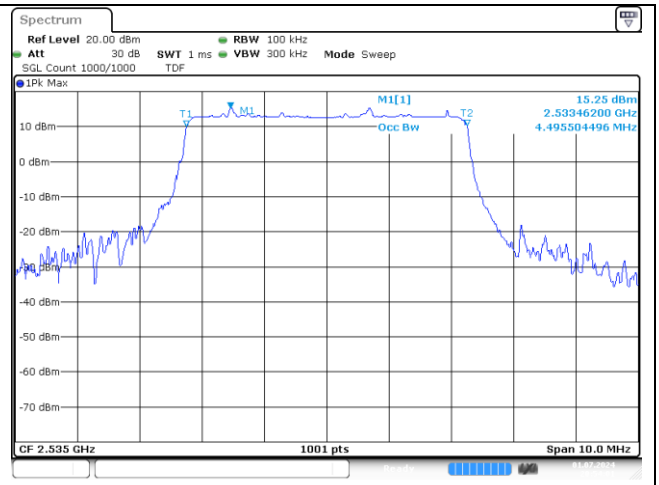
Band	SCS (㎑)	BW (㎒)	Frequency (㎒)	Occupied Bandwidth (㎒)				
				DFT-S-OFDM BPSK	DFT-S-OFDM QPSK	DFT-S-OFDM 16QAM	CP-OFDM QPSK	CP-OFDM 16QAM
7	15	5	2 535.0	4.476	4.496	4.496	4.515	4.525
		10		8.911	8.951	8.971	9.291	9.291
		15		13.457	13.516	13.516	14.146	14.146
		20		17.942	17.902	17.902	18.901	18.981
Band	**SCS (㎑)**	**BW (㎒)**	**Frequency (㎒)**	**Occupied Bandwidth (㎒)**				
				DFT-S-OFDM BPSK	**DFT-S-OFDM QPSK**	**DFT-S-OFDM 16QAM**	**CP-OFDM QPSK**	**CP-OFDM 16QAM**
41	30	20	2 592.99	17.902	17.902	17.902	18.262	18.302
		30		26.853	26.853	26.853	27.512	27.512
		40		35.804	35.724	35.804	37.882	37.962
		50		45.754	45.754	45.754	47.453	47.552
		60		57.662	57.782	58.022	57.782	58.022
		70		64.056	64.196	64.336	67.413	67.273
		80		77.043	77.203	77.043	77.522	77.522
		90		86.673	86.494	86.853	87.393	87.213
		100		96.503	96.304	96.304	97.502	97.502
Band	**SCS (㎑)**	**BW (㎒)**	**Frequency (㎒)**	**Occupied Bandwidth (㎒)**				
				DFT-S-OFDM BPSK	**DFT-S-OFDM QPSK**	**DFT-S-OFDM 16QAM**	**CP-OFDM QPSK**	**CP-OFDM 16QAM**
77/78 Low-Band	30	20	3 500.01	17.902	17.862	17.942	18.302	18.262
		30		26.793	26.853	26.853	27.512	27.512
		40		35.884	35.724	35.884	37.962	37.962
		50		45.754	45.854	45.754	47.552	47.552
		60		57.782	58.022	58.142	58.142	58.142
		70		64.196	64.196	64.336	67.552	67.692
		80		77.363	77.363	77.363	77.682	77.682
		90		86.853	86.853	87.033	87.572	87.393
		100		96.703	96.104	96.503	97.702	97.502
Band	**SCS (㎑)**	**BW (㎒)**	**Frequency (㎒)**	**Occupied Bandwidth (㎒)**				
				DFT-S-OFDM BPSK	**DFT-S-OFDM QPSK**	**DFT-S-OFDM 16QAM**	**CP-OFDM QPSK**	**CP-OFDM 16QAM**
77/78 High-Band	30	20	3 840.00	17.902	17.862	17.942	18.262	18.262
		30		26.793	26.853	26.853	27.512	27.512
		40		35.884	35.884	35.804	37.962	37.962
		50		45.754	45.854	45.954	47.552	47.552
		60		58.142	58.022	58.262	58.142	58.022
		70		64.476	64.476	64.476	67.552	67.692
		80		77.203	77.363	77.363	77.682	77.682
		90		87.033	86.673	87.213	87.752	87.752
		100		98.102	96.503	96.503	97.702	97.702

- Test plots

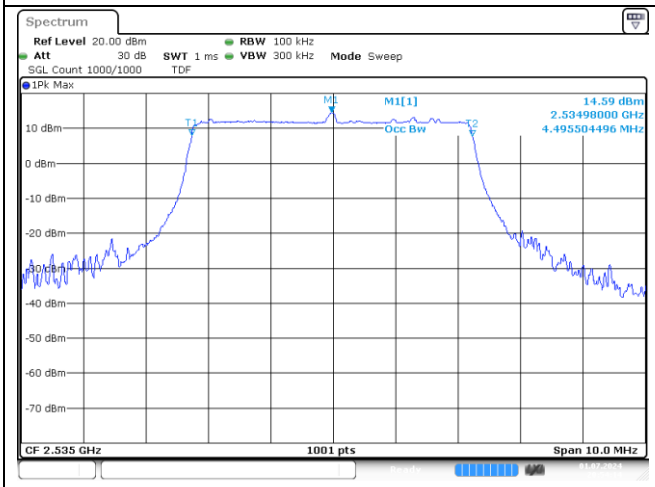
NR band 7



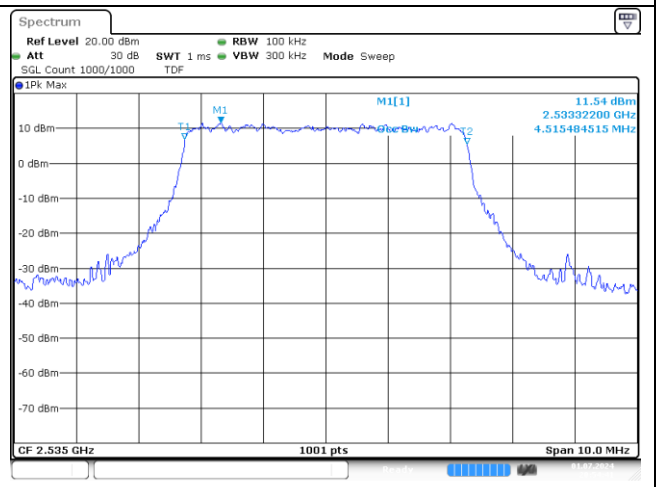
5 ㎒ Middle Channel - DFT-S-OFDM BPSK



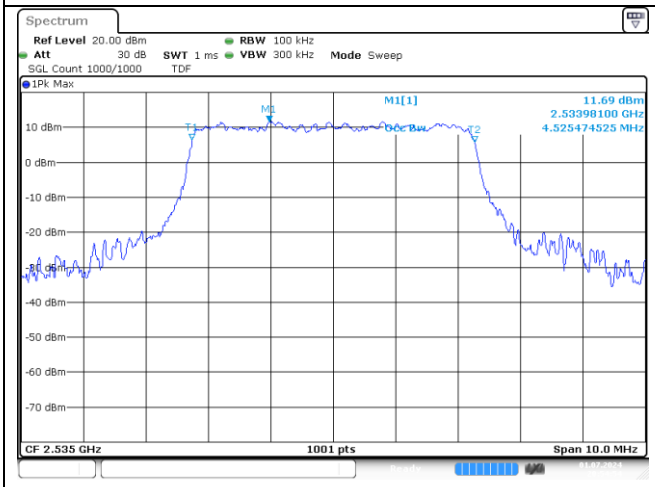
5 ㎒ Middle Channel - DFT-S-OFDM QPSK



5 ㎒ Middle Channel - DFT-S-OFDM 16QAM

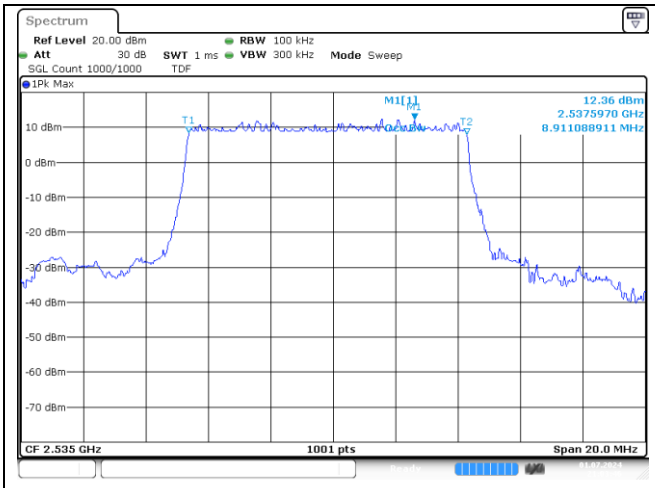


5 ㎒ Middle Channel - CP-OFDM QPSK

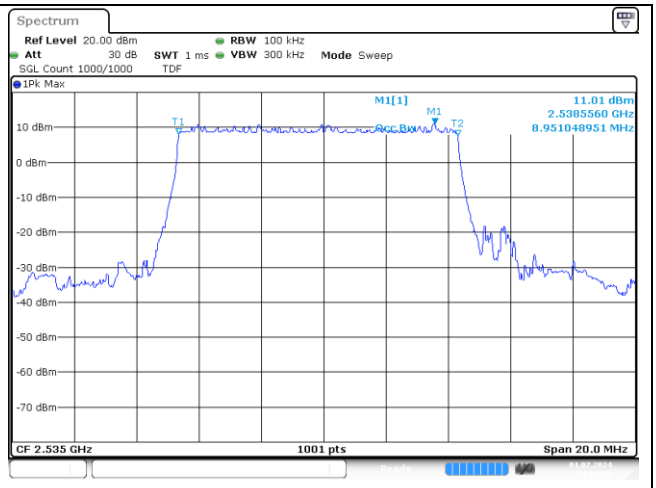


5 ㎒ Middle Channel - CP-OFDM 16QAM

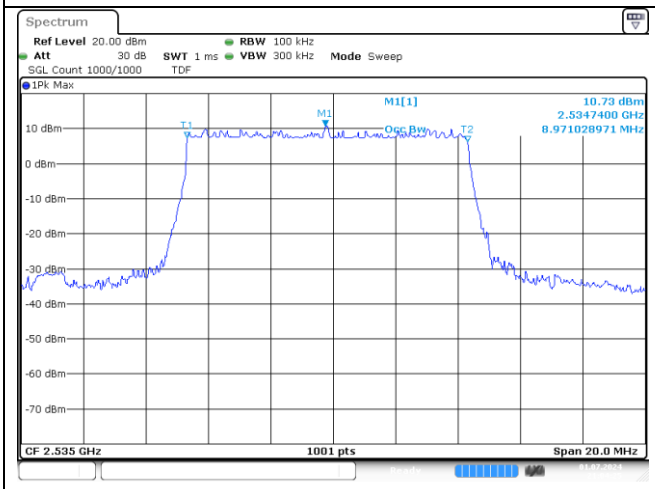
NR band 7



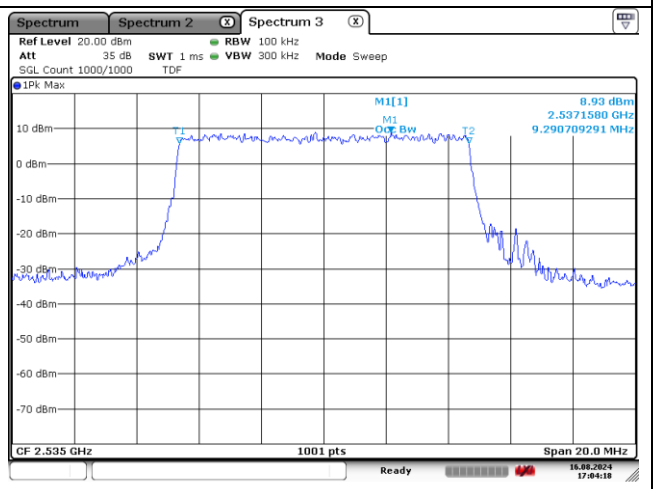
10 ㎒ Middle Channel - DFT-S-OFDM BPSK



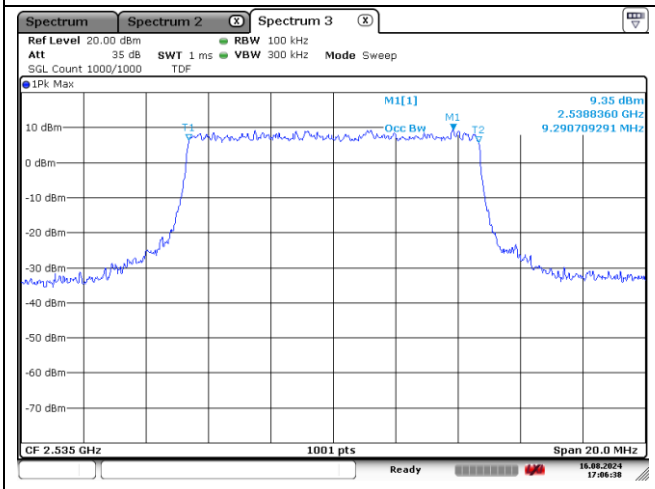
10 ㎒ Middle Channel - DFT-S-OFDM QPSK



10 ㎒ Middle Channel - DFT-S-OFDM 16QAM



10 ㎒ Middle Channel - CP-OFDM QPSK



10 ㎒ Middle Channel - CP-OFDM 16QAM