

TEST REPORT

of

FCC Part 2 Subpart J, Part 24 Subpart E
and Part 27 Subpart C

FCC ID: BEJTFGMEIBBCD1

Equipment Under Test : Telematics
Model Name : TFGMEIBBCD1
Variant Model Name(s) : Refer to page 3
Applicant : LG Electronics USA, Inc.
Manufacturer : LG Electronics Inc.
Date of Receipt : 2025.04.30
Date of Test(s) : 2025.06.17 ~ 2025.07.30
Date of Issue : 2025.08.04

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

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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 : Cho, Hee-jae

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	
Model Name	TFGMEIBBCD1	
Variant Model Name	TFGMEIBBCD2, TFGMEIBBCD3, TFGMEIBBCD1_MY27, TFGMEIBBCD2_MY27, TFGMEIBBCD3_MY27	
Serial Number	Conducted: 356715660000004 Radiated: 356715660000012	
Power Supply	DC 13.5 V	
Rated Power	NR Band 2, 7, 25 : 24 dB m NR Band 41 : 25 dB m NR Band 66 : 23.5 dB m	
Frequency Range	Port 1	Port 2
	NR Band 2: 1 850 MHz ~ 1 910 MHz NR Band 7: 2 500 MHz ~ 2 570 MHz NR Band 25: 1 850 MHz ~ 1 915 MHz NR Band 41: 2 496 MHz ~ 2 690 MHz NR Band 66: 1 710 MHz ~ 1 780 MHz	NR Band 41: 2 496 MHz ~ 2 690 MHz
Modulation Technique	BPSK, QPSK, 16QAM, 64QAM, 256QAM	
Antenna Type	Internal: Planar Inverted F Antenna External: Metal Antenna	
Antenna Gain*	Refer to the clause 1.13	
H/W Version	Rev.G	
S/W Version	SW180	

1.5. Test Equipment List

Equipment	Manufacturer	Model	S/N	Cal. Due	Cal. Interval
Spectrum Analyzer	R&S	FSV30	103454	10/29/2025	Annual
Spectrum Analyzer	R&S	FSW43	100637	08/21/2025	Annual
Spectrum Analyzer	Agilent	N9020A	MY53421758	09/10/2025	Annual
Spectrum Analyzer	Agilent	N9030A	US51350132	11/29/2025	Annual
Signal Generator	R&S	SMA100B	106887	10/11/2025	Annual
DC Power Supply	R&S	HMP2020	022802107	10/31/2025	Annual
Communication Analyzer	Anritsu	MT8821C	6262192291	02/19/2026	Annual
Communication Analyzer	Anritsu	MT8000A	6261867312	04/07/2026	Annual
Temperature Chamber	ESPEC CORP.	PL-2J	15004184	06/04/2026	Annual
Directional Coupler	KRYTAR	152613	140972	10/11/2025	Annual
BRIDGE Coupler	MARK MICROWAVE INC	CBR16-0012	1542	05/15/2026	Annual
High Pass Filter	Wainwright Instrument GmbH	WHNX10-900-1000-18000-40-SS	7	02/24/2026	Annual
High Pass Filter	Wainwright Instrument GmbH	WHKX3.0/18G-10SS	21	06/17/2026	Annual
High Pass Filter	Wainwright Instrument GmbH	WLKX10-3555-4500-26500-40CD	1	10/29/2025	Annual
High Pass Filter	Wainwright Instrument GmbH	WHNX7.5/26.5G-6SS	11	10/16/2025	Annual
Preamplifier	H.P.	8447F	2944A03909	08/09/2025	Annual
Preamplifier	R&S	SCU 18F	101058	02/27/2026	Annual
Test Receiver	R&S	ESU26	100109	01/13/2026	Annual
Loop Antenna	Schwarzbeck Mess-Elektronik	FMZB 1519	1519-039	03/25/2027	Biennial
Bilog Antenna	Schwarzbeck Mess-Elektronik	VULB9163	01126	03/05/2027	Annual
Horn Antenna	R&S	HF906	100326	02/24/2026	Annual
Antenna Master	Innco systems GmbH	MA4640-XP-ET	MA4640/536/38330516/L	N.C.R.	N/A
Turn Table	Innco systems GmbH	DS 1200S	N/A	N.C.R.	N/A
Controller	Innco systems GmbH	CONTROLLER CO3000-4P	CO3000/963/38330516/L	N.C.R.	N/A
Anechoic Chamber	SY Corporation	L × W × H (9.6 m × 6.4 m × 6.6 m)	N/A	N.C.R.	N/A
Coaxial Cable	RADIALL	TESTPRO 3	182287	10/11/2025	Semi-Annual
Coaxial Cable	RADIALL	TESTPRO 3	182284	10/11/2025	Semi-Annual
Coaxial Cable	RADIALL	TESTPRO 3	182288	10/11/2025	Semi-Annual
Coaxial Cable	SENSORVIEW	NMST-13A26-NMST-5m	TPC2402190004	10/08/2025	Semi-Annual
Coaxial Cable	SENSORVIEW	NMST-13A26-NMST-10m	TPC2402190001	10/08/2025	Semi-Annual

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, Part 24 and Part 27		
Section	Test Item	Result
§24.232(c) §27.50(d)(4) §27.50(h)(2)	E.R.P. / E.I.R.P.	Pass ¹⁾
§24.238(a) §27.53(h)(1) §27.53(m)(4)	Radiated Spurious Emissions	Pass ²⁾³⁾
§2.1046	Conducted Output Power	Pass ¹⁾
§2.1049	Occupied Bandwidth	Pass ¹⁾
§24.232(d) §27.50(d)(5)	Peak-Average Ratio	Pass ¹⁾
§24.238(a) §27.53(m)(4)	Spurious Emission at Antenna Terminal	Pass ¹⁾
§24.238(a) §27.53(m)(4)	Band Edge and Emission Mask	Pass ¹⁾
§2.1055 §24.235 §27.54	Frequency Stability	Pass ¹⁾

Note;

- 1) The EUT has two antenna types (external, internal) and all antennas operated by one module.
- 2) The EUT uses same module with TM05FNNAGM0, so only spot check was performed for radiated spurious emissions and the rule was satisfied.
- 3) The EUT has various external antennas and radiated spurious emission test was performed with external antenna which has highest gain of each band
- 4) This product is classified as C2PC due to increased bandwidth in a specific NR band(n7, n25, n41) and the addition of LTE Band 71 to the ENDC combination.

1.7. Sample Calculation for Offset

Where relevant, the following sample calculation is provided:

1.7.1. Conducted Test

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

1.7.2. Radiation test

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

1.8. Difference

Model name	Description
TM05FNNAGM0	- Reference model - Single modular
TFGMEIBBCD1	- Host equipment - Same to reference model except below - With external case - Internal antenna

1.9. Spot Check Data

After confirming through preliminary radiated spurious emissions in the band that the performance of the FCC ID: BEJTM05FNNAGM0 remains representative of FCC ID: BEJTFGMEIBBCD1
The test data of FCC ID: BEJTM05FNNAGM0 is being submitted for this application to cover NR features.

Band	Test item	Frequency (MHz)	Limit	Original model	Spot check model	Deviation (dB)	Remark
				TM05FNNAGM0	TFGMEIBBCD1		
				FCC ID: BEJTM05FNNAGM0	FCC ID: BEJTFGMEIBBCD1		
n7	Radiated Spurious Emissions	2 500 ~ 2 570	-25 dBm	-40.63	-41.69	1.06	-
n25		1 850 ~ 1 915	-13 dBm	-42.08	-41.50	-0.58	-
n41		2 496 ~ 2 690	-25 dBm	Not detected	Not detected	-	-
71A-n2A		1 850 ~ 1 910	-13 dBm	-41.11	-41.45	0.34	-
71A-n7A		2 500 ~ 2 570	-25 dBm	-40.43	-39.63	-0.80	-
71A-n41A		2 496 ~ 2 690	-25 dBm	Not detected	Not detected	-	-
71A-n66A		1 710 ~ 1 780	-13 dBm	-42.20	-42.92	0.72	-

Note;

Comparison of two models, upper deviation is within 3 dB range and all test results are under FCC technical limits.

1.10. Reference Detail

Reference applicant that contains the reused reference data in the individual test reports:

Equipment class	Reference FCC Certification	Application type	Reference test report number	Exhibit type	Variant test report number	Data reuse
PCB	FCC ID: BEJTM05FNNAGM0	Original grant	F690501-RF-RTL006148 (LTE)	Test report	F690501-RF-RTL006227 (LTE)	All
			F690501-RF-RTL006149 (NR)		F690501-RF-RTL006228 (NR)	

1.11. Addition of ENDC Configuration

NR Band	SCS (kHz)	Bandwidth (MHz)	Waveform	Modulation	ENDC LTE Band
n2	15	5, 10, 15, 20	DFT-S OFDM, CP OFDM	BPSK, QPSK, 16QAM, 64QAM, 256QAM	71
n7	15	5, 10, 15, 20, 25, 30, 40			71
n66	15	5, 10, 15, 20, 40			71
n41	30	20, 30, 40, 50, 60, 70, 80, 90, 100			71

1.12. Manufacturer Declaration

The EUT supports two ports and LTE, WCDMA and 5G NR FDD bands support only port 1.
The 5G NR TDD band supports both port 1 and port 2

Port 1 supports 5G NR TDD bands only for MIMO mode with CP-OFDM Modulation only.

1.13. Antenna Information

Band	Operating Frequency (MHz)	Antenna Peak Gain (dB i)						
		Internal	External					
			84933920	87832572	85015365	85015378	86784729 85647584	85846852 85846853
NR 7	2 500 ~ 2 570	2.50	5.99	4.16	1.10	-1.14	6.13	-2.70
NR 25/2	1 850 ~ 1 915	2.23	5.12	5.18	0.08	1.27	4.39	0.80
NR 41	2 496 ~ 2 690	2.50	0.09	3.52	2.21	1.75	4.43	5.10
NR 66	1 710 ~ 1 780	3.15	5.54	2.50	0.23	0.40	4.05	1.20

Operating Frequency (MHz)				Antenna Peak Gain (dB i)		
				Ant. Gain		
				Port 1	Port 2	Port 1 + port 2 ¹⁾
NR 41	2 496 ~ 2 690	Internal		2.41	2.50	5.47
		External	84933920	5.99	0.09	6.54
			87832572	4.16	3.52	6.86
			85015365	3.15	2.21	5.70
			85015378	2.41	1.75	5.10
			86784729	5.84	-	<u>8.17</u>
			85647584	-	4.43	
			85846852 (85846853)	-3.00	5.10	4.97

Remark;

1) Port 1 means secondary cell and Port 2 means primary cell.

2) According to KDB 662911 D01 Multiple Transmitter Output v02r01 F2)d)(i),

Port 1 + Port 2 Antenna Gain = $10 * \log[(10^{G_1/10} + 10^{G_2/10})^2 / N_{ANT}]$

Where,

G_1 = antenna gain of port 1,

G_2 = antenna gain of port 2,

N_{ANT} = the number of antennas

1.14. Measurement Uncertainty

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

Parameter	Uncertainty	
Conducted Output Power	1.43 dB	
Occupied Bandwidth	0.03 MHz	
Conducted Spurious Emissions	0.86 dB	
Peak-Average Ratio	0.65 dB	
Frequency Stability	110 Hz	
Radiated Emission, 9 kHz to 30 MHz	H	3.40 dB
	V	3.40 dB
Radiated Emission, below 1 GHz	H	4.60 dB
	V	5.00 dB
Radiated Emission, above 1 GHz	H	3.60 dB
	V	3.60 dB

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

1.15. Measurement Configuration

Test Items	Band	Test Channel			Bandwidth (MHz)												Modulation DFTS-OFDM					Modulation CP-OFDM					RB #		
		Low	Mid	High	5	10	15	20	25	30	40	50	60	70	80	90	100	BPSK	QPSK	QAM			QPSK	QAM			1	Half	Full
																				16	64	256		16	64	256			
Conducted Output Power	n7	V	V	V	-	-	-	-	V	V	V							V	V	V	V	V	V	V	-	-	V	V	V
	n25	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
Frequency Stability	n7	-	V	-	-	-	-	-	V	-	-							-	V	-	-	-	-	-	-	-	-	-	V
	n25	-	V	-	-	-	-	-	V	-	-							-	V	-	-	-	-	-	-	-	-	-	V
	n41	-	V	-				-		-	-	-	-	V	-	-	-	-	V	-	-	-	-	-	-	-	-	-	V
Occupied Bandwidth	n7	V	V	V	-	-	-	-	V	V	V							V	V	V	-	-	V	V	-	-	-	-	V
	n25	V	V	V	-	-	-	-	V	V	V							V	V	V	-	-	V	V	-	-	-	-	V
	n41	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	V	V	V	V	V	-	-	V
	n25	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
Band edge	n7	V	-	V	-	-	-	-	V	V	V							V	-	V	-	-	V	V	-	-	V	-	V
	n25	V	-	V	-	-	-	-	V	V	V							V	-	V	-	-	V	V	-	-	V	-	V
	n41	V	-	V				-		-	-	-	-	V	-	-	-	V	-	V	-	-	V	V	-	-	V	-	V
Spurious at antenna terminal & Radiated Spurious Emissions	n7	V	V	V	Worst case																								
	n25	V	V	V	Worst case																								
	n41	V	V	V	Worst case																								

ENDC

Test Items	NR Band	Test Channel			Bandwidth (MHz)												Modulation DFTS-OFDM					Modulation CP-OFDM					RB #		
		Low	Mid	High	5	10	15	20	25	30	40	50	60	70	80	90	100	BPSK	QPSK	QAM			QPSK	QAM			1	Half	Full
																				16	64	256		16	64	256			
Conducted Output Power	n2	V	V	V	V	V	V	V										V	V	-	-	-	-	-	-	-	V	-	-
	n7	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	-	-
	n66	V	V	V	V	V	V	V			V							V	V	-	-	-	-	-	-	-	V	-	-
Spurious Radiated Emission	n2	V	V	V	Worst case																								
	n7	V	V	V	Worst case																								
	n41	V	V	V	Worst case																								
	n66	V	V	V	Worst case																								

Note;

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

Radiated Emission Test

SISO

NR Band	SCS (kHz)	Bandwidth (MHz)	Modulation	Resource Block Allocation
				RBs allocated
n7	15	25	DFT-S-OFDM - QPSK	1
n25	15	30	DFT-S-OFDM - BPSK	1
n41	30	70	DFT-S-OFDM - BPSK	1

MIMO

NR Band	SCS (kHz)	Bandwidth (MHz)	Modulation	Resource Block Allocation
				RBs allocated
n41	30	70	DFT-S-OFDM - QPSK	1

ENDC

NR Band	SCS (kHz)	Bandwidth (MHz)	Modulation	Resource Block Allocation
				RBs allocated
71A-n2A	15	20-15	DFT-S-OFDM - QPSK	1
71A-n7A	15	20-20	DFT-S-OFDM - BPSK	1
71A-n41A	30	20-40	DFT-S-OFDM - BPSK	1
71A-n66A	15	20-40	DFT-S-OFDM - BPSK	1

1.16. Information of Variant Model

Model Name		Description
Basic Model	TFGMEIBBCD1	- Dual GNSS is supported. - Ultra-super cruise service is supported.
Variant Models	TFGMEIBBCD2	- Same to RF module with basic model except following function. - Single GNSS is supported. - Ultra-super cruise service is not supported.
	TFGMEIBBCD3	- Same to RF module with basic model except following function. - Single GNSS is supported. - Ultra-super cruise service is not supported. - eUICC part is different with TFGMEIBBCD2.
	TFGMEIBBCD1_MY27	- Same as Basic model. - Only the model name differs for marketing purposes.
	TFGMEIBBCD2_MY27	- Same to RF module with basic model except following function. - Single GNSS is supported. - Ultra-super cruise service is not supported.
	TFGMEIBBCD3_MY27	- Same to RF module with basic model except following function. - Single GNSS is supported. - Ultra-super cruise service is not supported. - eUICC part is different with TFGMEIBBCD2.

Note;

The all test items performed with basic model.

1.17. Test Report Revision

Revision	Report Number	Date of Issue	Description
0	F690501-RF-RTL006228	2025.08.04	Initial

1.18. Emission Designator and Max Power

-Internal Antenna

SISO

NR Band	Band width (MHz)	Modulation		Low Freq. (MHz)	Upper Freq. (MHz)	Conducted Average (dB m)	Ant. Gain (dB i)	E.I.R.P. Average (dB m)	E.I.R.P. Average (W)	Emission Designator
n7	25	DFTS-OFDM	BPSK	2 512.5	2 557.5	24.03	2.50	26.53	0.450	22M9G7D
			QPSK			24.04		26.54	0.451	22M9G7D
			16QAM			23.12		25.62	0.365	22M9D7D
		CP-OFDM	QPSK			22.65		25.15	0.327	23M8G7D
			16QAM			22.12		24.62	0.290	23M8D7D
	30	DFTS-OFDM	BPSK	2 515.0	2 555.0	23.98		26.48	0.445	28M5G7D
			QPSK			23.99		26.49	0.446	28M6G7D
			16QAM			22.93		25.43	0.349	28M5D7D
		CP-OFDM	QPSK			22.26		24.76	0.299	28M5G7D
			16QAM			22.07		24.57	0.286	28M6D7D
	40	DFTS-OFDM	BPSK	2 520.0	2 550.0	23.95		26.45	0.442	38M5G7D
			QPSK			23.97		26.47	0.444	38M6G7D
			16QAM			23.02		25.52	0.356	38M6D7D
		CP-OFDM	QPSK			22.66		25.16	0.328	38M5G7D
			16QAM			22.21		24.71	0.296	38M4D7D
n25	25	DFTS-OFDM	BPSK	1 862.5	1 902.5	23.48	2.23	25.71	0.372	22M9G7D
			QPSK			23.52		25.75	0.376	22M9G7D
			16QAM			22.61		24.84	0.305	22M9D7D
		CP-OFDM	QPSK			21.93		24.16	0.261	23M7G7D
			16QAM			21.47		23.70	0.234	23M8D7D
	30	DFTS-OFDM	BPSK	1 865.0	1 900.0	23.66		25.89	0.388	28M5G7D
			QPSK			23.60		25.83	0.383	28M6G7D
			16QAM			22.50		24.73	0.297	28M5D7D
		CP-OFDM	QPSK			21.91		24.14	0.259	28M5G7D
			16QAM			21.68		23.91	0.246	28M6D7D
	40	DFTS-OFDM	BPSK	1 870.0	1 895.0	23.62		25.85	0.385	38M4G7D
			QPSK			23.63		25.86	0.385	38M5G7D
			16QAM			22.60		24.83	0.304	39M2D7D
		CP-OFDM	QPSK			22.19		24.42	0.277	38M4G7D
			16QAM			21.80		24.03	0.253	38M6D7D
n41	70	DFTS-OFDM	BPSK	2 531.01	2 655.00	24.77	2.50	27.27	0.533	64M3G7D
			QPSK			24.72		27.22	0.527	64M3G7D
			16QAM			23.63		26.13	0.410	64M2D7D
		CP-OFDM	QPSK			23.11		25.61	0.364	67M4G7D
			16QAM			22.66		25.16	0.328	67M6D7D

MIMO

NR Band	Band width (MHz)	Modulation		Low Freq. (MHz)	Upper Freq. (MHz)	Conducted Average (dB m)	Ant. Gain (dB i)	E.I.R.P. Average (dB m)	E.I.R.P. Average (W)	Emission Designator
n41	70	CP-OFDM	QPSK	2 531.01	2 655.00	24.39	5.47	29.86	0.968	67M4G7D
			16QAM			23.91		29.38	0.867	67M4D7D

-External Antenna

SISO

NR Band	Band width (MHz)	Modulation		Low Freq. (MHz)	Upper Freq. (MHz)	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	25	DFTS-OFDM	BPSK	2 512.5	2 557.5	24.03	6.13	30.16	1.038	22M9G7D
			QPSK			24.04		30.17	1.040	22M9G7D
			16QAM			23.12		29.25	0.841	22M9D7D
		CP-OFDM	QPSK			22.65		28.78	0.755	23M8G7D
			16QAM			22.12		28.25	0.668	23M8D7D
			16QAM			22.12		28.25	0.668	23M8D7D
	30	DFTS-OFDM	BPSK	2 515.0	2 555.0	23.98		30.11	1.026	28M5G7D
			QPSK			23.99		30.12	1.028	28M6G7D
			16QAM			22.93		29.06	0.805	28M5D7D
		CP-OFDM	QPSK			22.26		28.39	0.690	28M5G7D
			16QAM			22.07		28.20	0.661	28M6D7D
			16QAM			22.07		28.20	0.661	28M6D7D
	40	DFTS-OFDM	BPSK	2 520.0	2 550.0	23.95		30.08	1.019	38M5G7D
			QPSK			23.97		30.10	1.023	38M6G7D
			16QAM			23.02		29.15	0.822	38M6D7D
		CP-OFDM	QPSK			22.66		28.79	0.757	38M5G7D
			16QAM			22.21		28.34	0.682	38M4D7D
			16QAM			22.21		28.34	0.682	38M4D7D
n25	25	DFTS-OFDM	BPSK	1 862.5	1 902.5	23.48	5.18	28.66	0.735	22M9G7D
			QPSK			23.52		28.70	0.741	22M9G7D
			16QAM			22.61		27.79	0.601	22M9D7D
		CP-OFDM	QPSK			21.93		27.11	0.514	23M7G7D
			16QAM			21.47		26.65	0.462	23M8D7D
			16QAM			21.47		26.65	0.462	23M8D7D
	30	DFTS-OFDM	BPSK	1 865.0	1 900.0	23.66		28.84	0.766	28M5G7D
			QPSK			23.60		28.78	0.755	28M6G7D
			16QAM			22.50		27.68	0.586	28M5D7D
		CP-OFDM	QPSK			21.91		27.09	0.512	28M5G7D
			16QAM			21.68		26.86	0.485	28M6D7D
			16QAM			21.68		26.86	0.485	28M6D7D
	40	DFTS-OFDM	BPSK	1 870.0	1 895.0	23.62		28.80	0.759	38M4G7D
			QPSK			23.63		28.81	0.760	38M5G7D
			16QAM			22.60		27.78	0.600	39M2D7D
		CP-OFDM	QPSK			22.19		27.37	0.546	38M4G7D
			16QAM			21.80		26.98	0.499	38M6D7D
			16QAM			21.80		26.98	0.499	38M6D7D
n41	70	DFTS-OFDM	BPSK	2 531.01	2 655.00	24.77	5.10	29.87	0.971	64M3G7D
			QPSK			24.72		29.82	0.959	64M3G7D
			16QAM			23.63		28.73	0.746	64M2D7D
			16QAM			23.63		28.73	0.746	64M2D7D
		CP-OFDM	QPSK			23.11		28.21	0.662	67M4G7D
			16QAM			22.66		27.76	0.597	67M6D7D
			16QAM			22.66		27.76	0.597	67M6D7D
			16QAM			22.66		27.76	0.597	67M6D7D

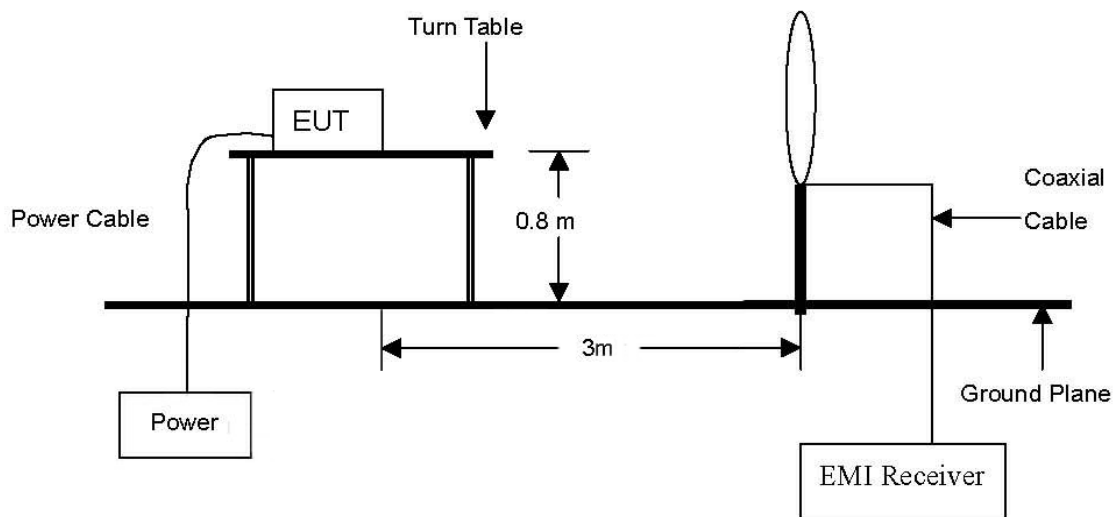
MIMO

NR Band	Band width (MHz)	Modulation		Low Freq. (MHz)	Upper Freq. (MHz)	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	70	CP-OFDM	QPSK	2 531.01	2 655.00	24.39	8.17	32.56	1.803	67M4G7D
			16QAM			23.91		32.08	1.614	67M4D7D

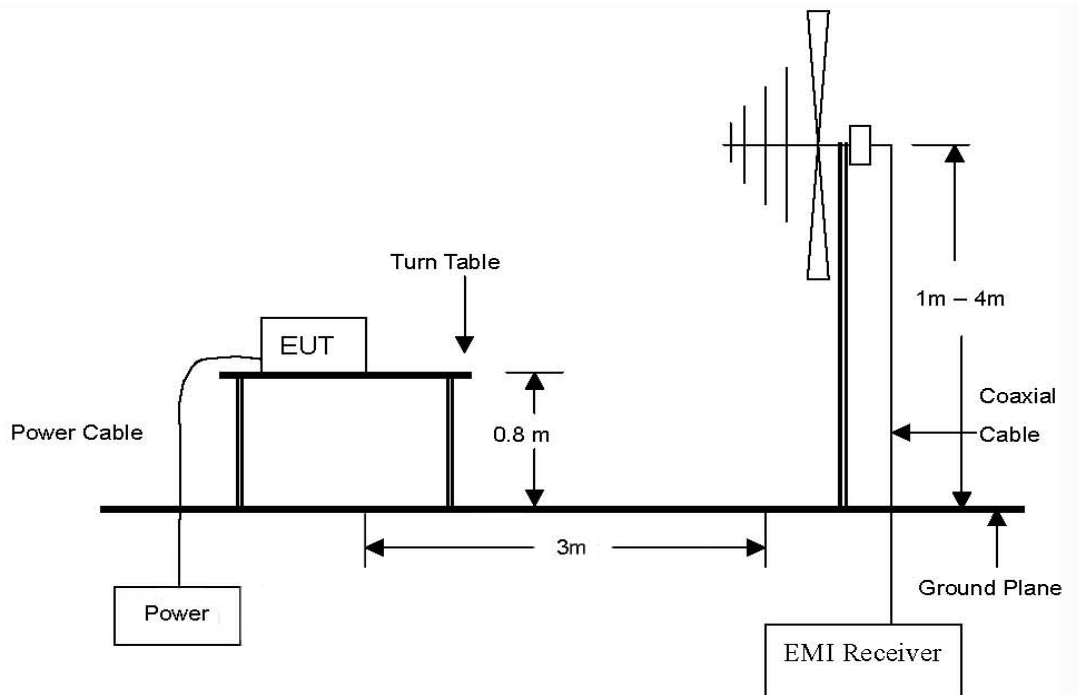
2. E.R.P. / E.I.R.P. & Radiated Spurious Emissions

2.1. Test setup

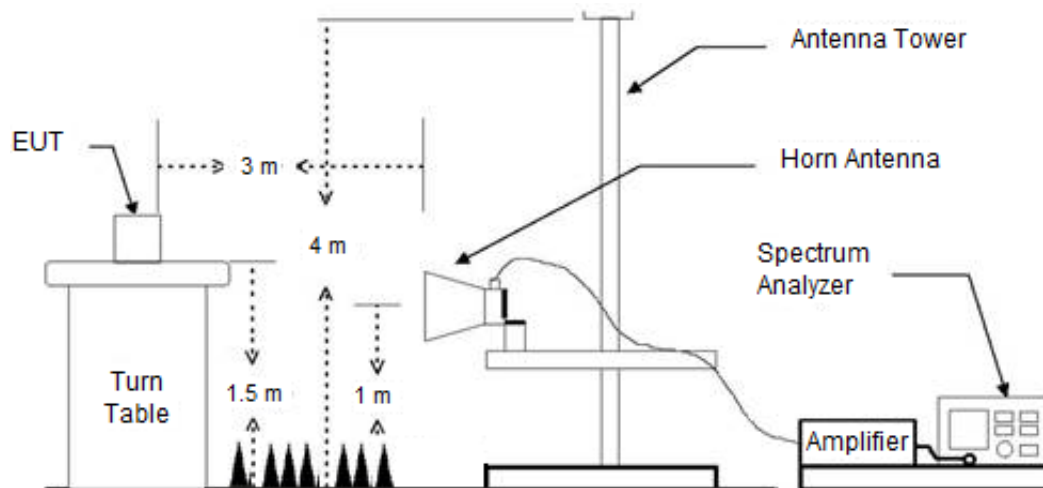
The diagram below shows the test setup that is utilized to make the measurements for emission from 9 kHz to 30 MHz.



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



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



2.2. Limit

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

- §24.232(c), mobile and portable stations are limited to 2 watts EIRP and the equipment must employ a means for limiting power to the minimum necessary for successful communications.

- §27.50(d)(4), fixed, mobile, and portable (hand-held) stations operating in the 1 710-1 755 MHz band and mobile and portable stations operating in the 1 695-1 710 MHz and 1 755-1 780 MHz bands are limited to 1 watt EIRP.

- §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.

2.2.2. Limit of Radiated Spurious Emissions

- §24.238(a), the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB.

- §27.53(h)(1), for operations in the 1 695-1 710 MHz, 1 710-1 755 MHz, 1 755-1 780 MHz, 1 915-1 920 MHz, 1 995-2 000 MHz, 2 000-2 020 MHz, 2 110-2 155 MHz, 2 155-2 180 MHz, and 2 180-2 200 bands, the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log_{10}(P)$ dB.

- §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 than $43 + 10 \log_{10}(P)$ 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.

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:

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

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 $\geq 3 \times$ 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) °C
Relative humidity : 47 % R.H.

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

-Internal Antenna

SISO

Band	Frequency (MHz)	Maximum Conducted Power (dB m)	Maximum Conducted Power (W)	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	24.04	0.254	2.50	26.54	0.451			2 W EIRP
n25	1 850 ~ 1 915	23.66	0.232	2.23	25.89	0.388			2 W EIRP
n41	2 496 ~ 2 690	24.77	0.300	2.50	27.27	0.533			2 W EIRP

MIMO

Band	Frequency (MHz)	Maximum Conducted Power (dB m)	Maximum Conducted Power (W)	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
n41	2 496 ~ 2 690	24.39	0.275	5.47	29.86	0.968			2 W EIRP

ENDC

Band	Frequency (MHz)	Maximum Conducted Power (dB m)	Maximum Conducted Power (W)	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
n2	1 850 ~ 1 910	23.66	0.232	2.23	25.89	0.388			2 W EIRP
n7	2 500 ~ 2 570	24.35	0.272	2.50	26.85	0.484			2 W EIRP
n41	2 496 ~ 2 690	23.83	0.242	2.50	26.33	0.430			2 W EIRP
n66	1 710 ~ 1 780	23.90	0.245	3.15	27.05	0.507			1 W EIRP

-External Antenna

SISO

Band	Frequency (MHz)	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	24.04	0.254	6.13	30.17	1.040			2 W EIRP
n25	1 850 ~ 1 915	23.66	0.232	5.18	28.84	0.766			2 W EIRP
n41	2 496 ~ 2 690	24.77	0.300	5.10	29.87	0.971			2 W EIRP

MIMO

Band	Frequency (MHz)	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
n41	2 496 ~ 2 690	24.39	0.275	8.17	32.56	1.803			2 W EIRP

ENDC

Band	Frequency (MHz)	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
n2	1 850 ~ 1 910	23.66	0.232	5.18	28.84	0.766			2 W EIRP
n7	2 500 ~ 2 570	24.35	0.272	6.13	30.48	1.117			2 W EIRP
n41	2 496 ~ 2 690	23.83	0.242	5.10	28.93	0.782			2 W EIRP
n66	1 710 ~ 1 780	23.90	0.245	5.54	29.44	0.879			1 W EIRP

Remark;

1. E.I.R.P. (dB m) = Maximum Conducted Power (dB m) + Antenna Gain (dB i)

2.4.2. Radiated Spurious Emissions

-Internal Antenna

SISO

NR Band 7 (25 MHz - DFT-S-OFDM QPSK)

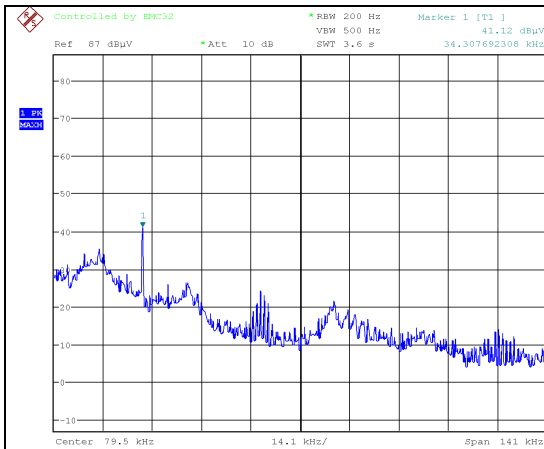
Frequency (MHz)	Measured Level (dBμV)	Ant. Pol.	AF (dB/m)	AMP+CL (dB)	E (dBμV/m)	CF (dB)	E.I.R.P. (dB m)	Limit (dB m)	Margin (dB)
Low Channel (2 512.5 MHz)									
5 048.65	39.67	H	33.50	-28.21	44.96	-95.26	-50.30	-25	25.30
5 048.53	44.90	V	33.50	-28.21	50.19	-95.26	-45.07	-25	20.07
Above 5 100.00	Not detected	-	-	-	-	-	-	-	-
Middle Channel (2 535.0 MHz)									
5 093.47	40.97	H	33.50	-28.76	45.71	-95.26	-49.55	-25	24.55
5 093.36	48.06	V	33.50	-28.76	52.80	-95.26	-42.46	-25	17.46
Above 5 100.00	Not detected	-	-	-	-	-	-	-	-
High Channel (2 557.5 MHz)									
5 138.26	42.07	H	33.58	-28.16	47.49	-95.26	-47.77	-25	22.77
5 138.43	49.53	V	33.58	-28.16	54.95	-95.26	<u>-40.31</u>	-25	15.31
Above 5 200.00	Not detected	-	-	-	-	-	-	-	-

NR Band 25 (30 MHz - DFT-S-OFDM BPSK)

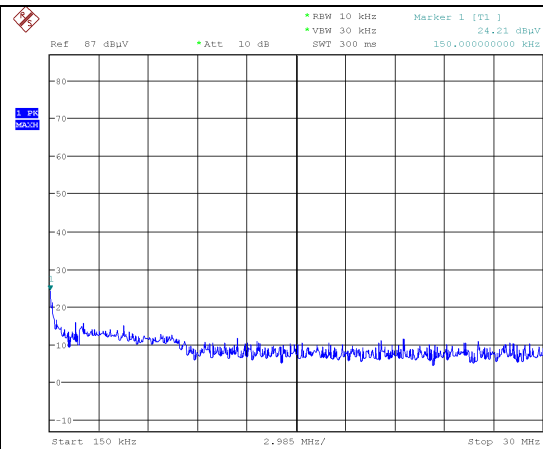
Frequency (MHz)	Measured Level (dBμV)	Ant. Pol.	AF (dB/m)	AMP+CL (dB)	E (dBμV/m)	CF (dB)	E.I.R.P. (dB m)	Limit (dB m)	Margin (dB)
Low Channel (1 865.0 MHz)									
3 758.18	45.14	H	32.22	-30.80	46.56	-95.26	-48.70	-13	35.70
3 758.19	50.26	V	32.22	-30.80	51.68	-95.26	-43.58	-13	30.58
5 637.07	39.53	H	34.10	-27.68	45.95	-95.26	-49.31	-13	36.31
5 637.29	42.95	V	34.10	-27.68	49.37	-95.26	-45.89	-13	32.89
Above 5 700.00	Not detected	—	—	—	—	—	—	—	—
Middle Channel (1 882.5 MHz)									
3 793.19	47.67	H	32.29	-30.48	49.48	-95.26	-45.78	-13	32.78
3 793.10	53.81	V	32.29	-30.48	55.62	-95.26	-39.64	-13	26.64
5 690.19	36.99	H	34.18	-27.27	43.90	-95.26	-51.36	-13	38.36
5 689.86	38.80	V	34.18	-27.27	45.71	-95.26	-49.55	-13	36.55
Above 5 700.00	Not detected	—	—	—	—	—	—	—	—
High Channel (1 900.0 MHz)									
3 828.35	49.20	H	32.30	-30.47	51.03	-95.26	-44.23	-13	31.23
3 828.19	56.97	V	32.30	-30.46	58.81	-95.26	-36.45	-13	23.45
5 742.59	33.82	H	34.20	-27.10	40.92	-95.26	-54.34	-13	41.34
5 742.21	39.11	V	34.20	-27.10	46.21	-95.26	-49.05	-13	36.05
Above 5 800.00	Not detected	—	—	—	—	—	—	—	—

NR Band 41 (70 MHz - DFT-S-OFDM BPSK)

Frequency (MHz)	Measured Level (dB μ V)	Ant. Pol.	AF (dB/m)	(AMP)+CL (dB)	E (dB μ V/m)	CF (dB)	E.I.R.P. (dB m)	Limit (dB m)	Margin (dB)
Low Channel (2 531.01 MHz)									
Below 1 000.00	Not detected	-	-	-	-	-	-	-	-
Above 1 000.00	Not detected	-	-	-	-	-	-	-	-
Middle Channel (2 592.99 MHz)									
**0.034	41.12	-	18.39	0.11	59.62	-95.26	-35.64	-25	10.64
**0.150	24.21	-	18.20	0.08	42.49	-95.26	-52.77	-25	27.77
**839.76	18.42	-	27.19	4.25	49.86	-95.26	-45.40	-25	20.40
**3 256.90	39.25	-	30.61	-31.40	38.46	-95.26	-56.80	-25	31.80
**26 649.70	49.38	-	39.85	-32.68	56.55	-95.26	-38.71	-25	13.71
High Channel (2 655.00 MHz)									
Below 1 000.00	Not detected	-	-	-	-	-	-	-	-
Above 1 000.00	Not detected	-	-	-	-	-	-	-	-



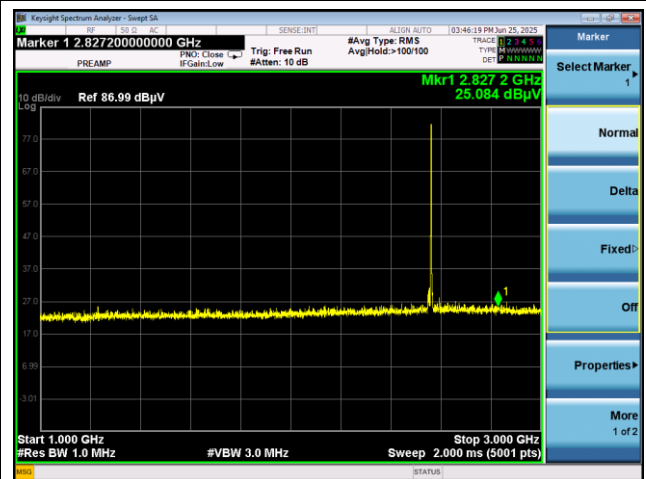
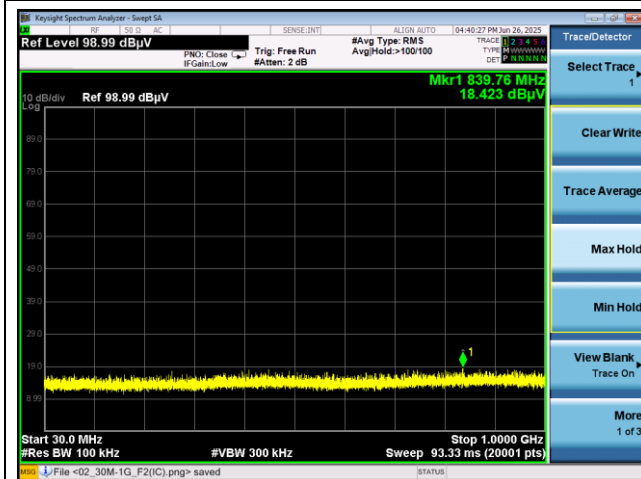
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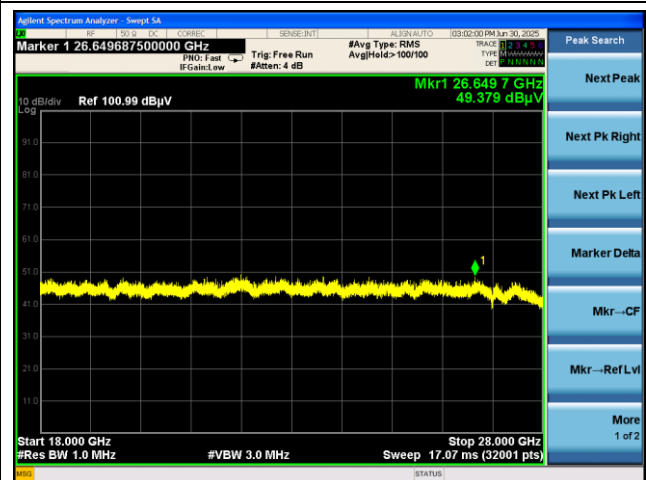
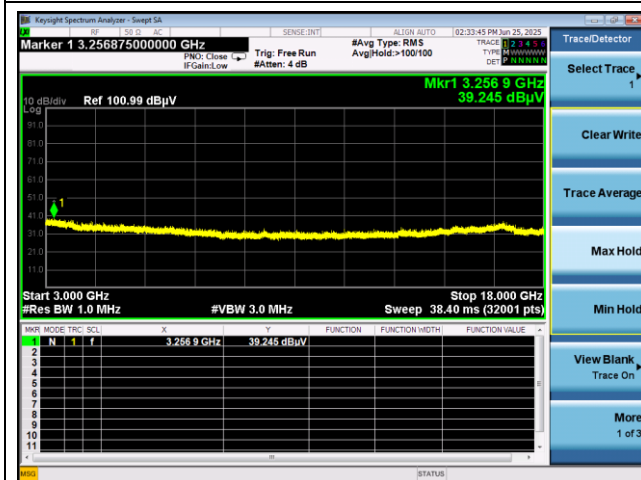
9 kHz – 150 kHz

150 kHz – 30 MHz



30 MHz – 1 GHz

1 GHz – 3 GHz



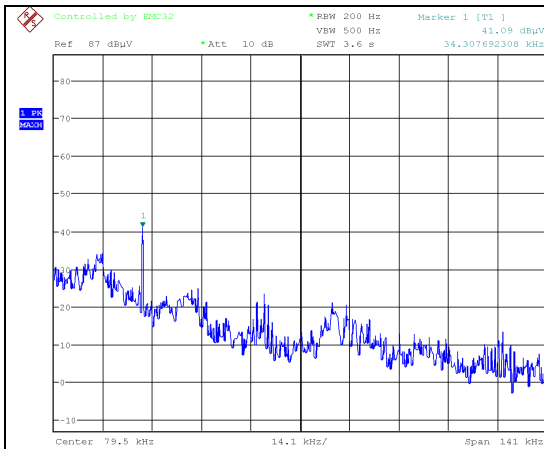
3 MHz – 18 GHz

18 MHz – 28 GHz

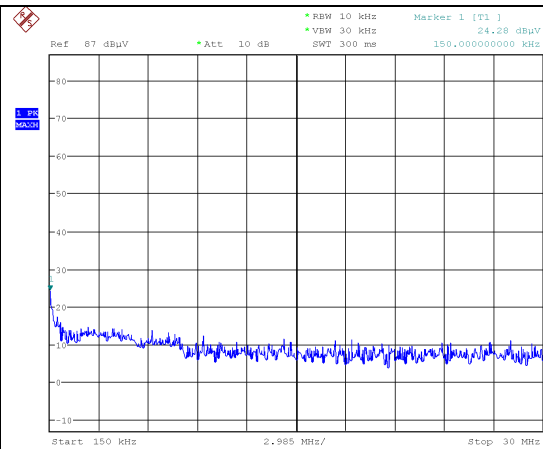
MIMO

NR Band 41 (70 MHz - DFT-S-OFDM QPSK)

Frequency (MHz)	Measured Level (dBμV)	Ant. Pol.	AF (dB/m)	AMP+CL (dB)	E (dBμV/m)	CF (dB)	E.I.R.P. (dB m)	Limit (dB m)	Margin (dB)
Low Channel (2 531.01 MHz)									
Below 1 000.00	Not detected	-	-	-	-	-	-	-	-
Above 1 000.00	Not detected	-	-	-	-	-	-	-	-
Middle Channel (2 592.99 MHz)									
**0.034	41.09	-	18.39	0.11	59.59	-95.26	-35.67	-25	10.67
**0.150	24.28	-	18.20	0.08	42.56	-95.26	-52.70	-25	27.70
**675.34	18.84	-	25.50	3.81	48.15	-95.26	-47.11	-25	22.11
**3 038.40	39.91	-	29.98	-31.86	38.03	-95.26	-57.23	-25	32.23
**22 029.40	50.31	-	38.57	-36.80	52.08	-95.26	-43.18	-25	18.18
High Channel (2 655.00 MHz)									
Below 1 000.00	Not detected	-	-	-	-	-	-	-	-
Above 1 000.00	Not detected	-	-	-	-	-	-	-	-



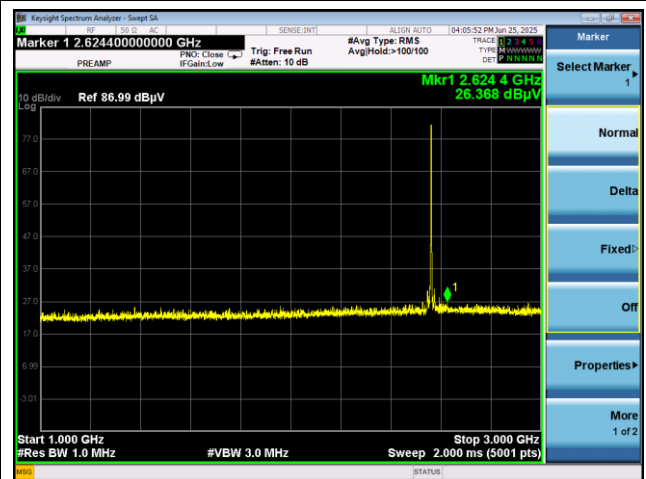
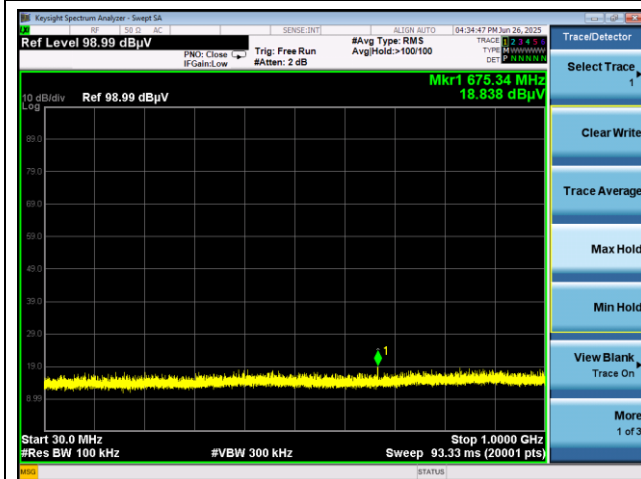
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Date: 30.JUN.2025 13:27:38

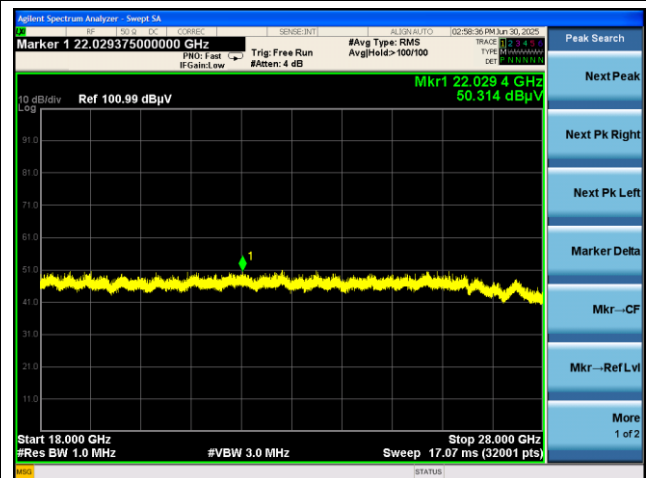
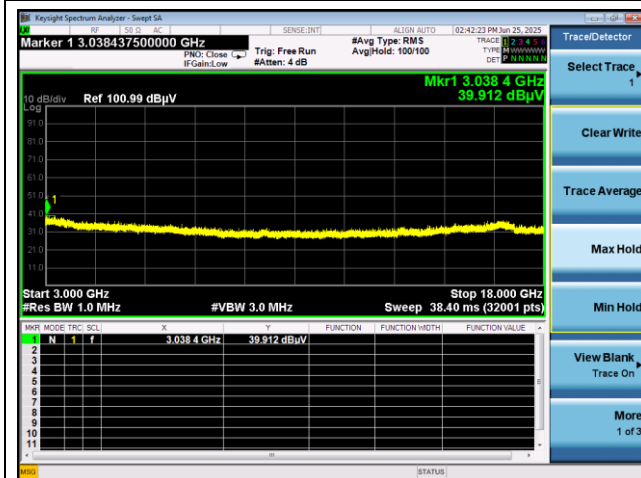
9 kHz – 150 kHz

150 kHz – 30 MHz



30 MHz – 1 GHz

1 GHz – 3 GHz



3 MHz – 18 GHz

18 MHz – 28 GHz

ENDC

71A-n2A (15 MHz - DFTS-OFDM QPSK)

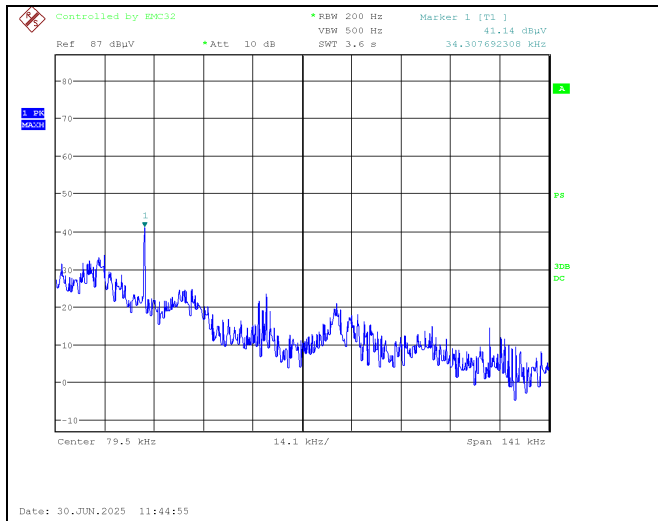
Frequency (MHz)	Measured Level (dBμV)	Ant. Pol.	AF (dB/m)	AMP+CL (dB)	E (dBμV/m)	CF (dB)	E.I.R.P. (dB m)	Limit (dB m)	Margin (dB)
Low Channel (1 857.5 MHz)									
3 728.80	45.38	H	32.12	-30.85	46.65	-95.26	-48.61	-13	35.61
3 728.68	51.42	V	32.11	-30.85	52.68	-95.26	-42.58	-13	29.58
5 593.01	41.58	H	34.10	-27.68	48.00	-95.26	-47.26	-13	34.26
5 592.96	44.05	V	34.10	-27.68	50.47	-95.26	-44.79	-13	31.79
Above 5 600.00	Not detected	—	—	—	—	—	—	—	—
Middle Channel (1 880.0 MHz)									
3 773.62	52.63	H	32.25	-30.71	54.17	-95.26	-41.09	-13	28.09
3 773.80	57.47	V	32.25	-30.71	59.01	-95.26	-36.25	-13	23.25
5 660.64	41.13	H	34.12	-27.51	47.74	-95.26	-47.52	-13	34.52
5 660.54	45.88	V	34.12	-27.51	52.49	-95.26	-42.77	-13	29.77
Above 5 700.00	Not detected	—	—	—	—	—	—	—	—
High Channel (1 902.5 MHz)									
3 818.55	53.38	H	32.30	-30.43	55.25	-95.26	-40.01	-13	27.01
3 818.63	58.84	V	32.30	-30.43	60.71	-95.26	<u>-34.55</u>	-13	21.55
5 727.79	39.44	H	34.20	-27.23	46.41	-95.26	-48.85	-13	35.85
5 727.87	44.47	V	34.20	-27.23	51.44	-95.26	-43.82	-13	30.82
Above 5 800.00	Not detected	—	—	—	—	—	—	—	—

71A-n7A (20 MHz - DFTS-OFDM BPSK)

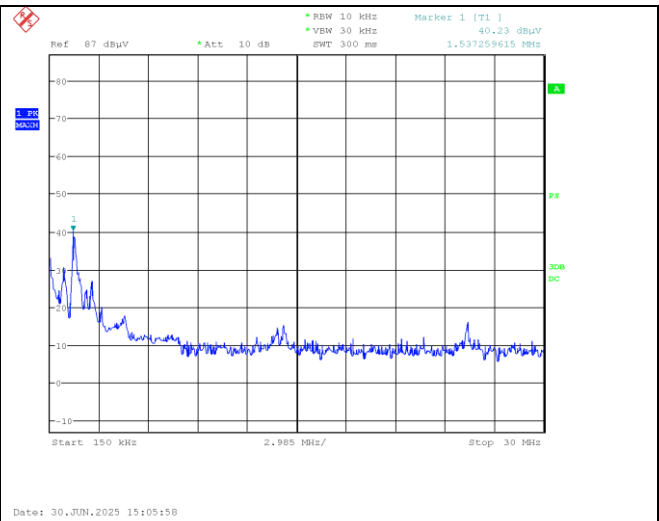
Frequency (MHz)	Measured Level (dBμV)	Ant. Pol.	AF (dB/m)	AMP+CL (dB)	E (dBμV/m)	CF (dB)	E.I.R.P. (dB m)	Limit (dB m)	Margin (dB)
Low Channel (2 510.0 MHz)									
5 038.31	37.82	H	33.50	-28.23	43.09	-95.26	-52.17	-25	27.17
5 038.48	44.02	V	33.50	-28.23	49.29	-95.26	-45.97	-25	20.97
Above 5 100.00	Not detected	-	-	-	-	-	-	-	-
Middle Channel (2 535.0 MHz)									
5 088.63	42.44	H	33.50	-28.72	47.22	-95.26	-48.04	-25	23.04
5 088.49	50.76	V	33.50	-28.72	55.54	-95.26	-39.72	-25	14.72
Above 5 100.00	Not detected	-	-	-	-	-	-	-	-
High Channel (2 560.0 MHz)									
5 138.54	43.36	H	33.58	-28.16	48.78	-95.26	-46.48	-25	21.48
5 138.52	51.77	V	33.58	-28.16	57.19	-95.26	-38.07	-25	13.07
Above 5 200.00	Not detected	-	-	-	-	-	-	-	-

71A-n41A (40 MHz - DFTS-OFDM BPSK)

Frequency (MHz)	Measured Level (dB μ V)	Ant. Pol.	AF (dB/m)	AMP+CL (dB)	E (dB μ V/m)	CF (dB)	E.I.R.P. (dB m)	Limit (dB m)	Margin (dB)
Low Channel (2 516.01 MHz)									
Below 1 000.00	Not detected	-	-	-	-	-	-	-	-
Above 1 000.00	Not detected	-	-	-	-	-	-	-	-
Middle Channel (2 592.99 MHz)									
**0.034	41.14	-	18.39	0.11	59.64	-95.26	-35.62	-25	10.62
**1.537	40.23	-	18.51	0.14	58.88	-95.26	-36.38	-25	11.38
**781.51	18.89	-	26.70	4.09	49.68	-95.26	-45.58	-25	20.58
**3 212.80	39.67	-	30.45	-31.69	38.43	-95.26	-56.83	-25	31.83
**24 890.90	49.10	-	39.33	-32.64	55.79	-95.26	-39.47	-25	14.47
High Channel (2 670.00 MHz)									
Below 1 000.00	Not detected	-	-	-	-	-	-	-	-
Above 1 000.00	Not detected	-	-	-	-	-	-	-	-



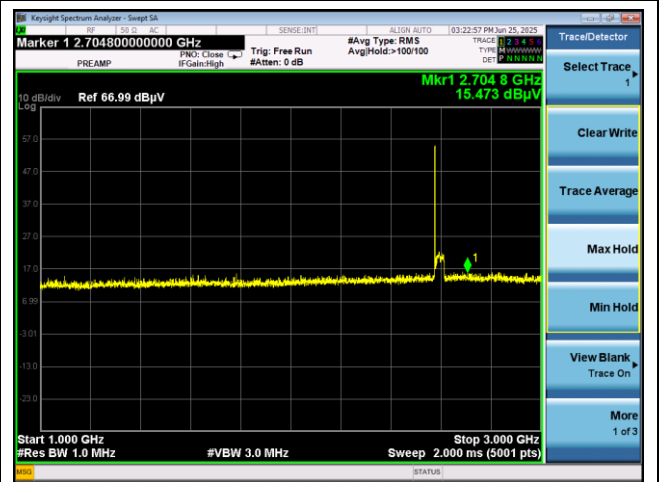
9 kHz – 150 kHz



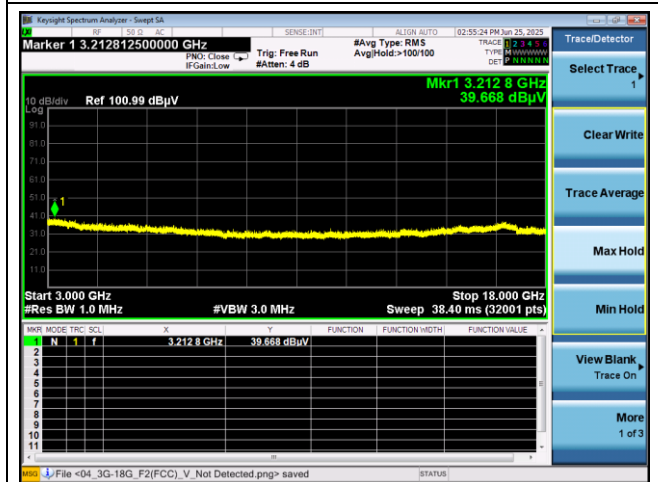
150 kHz – 30 MHz



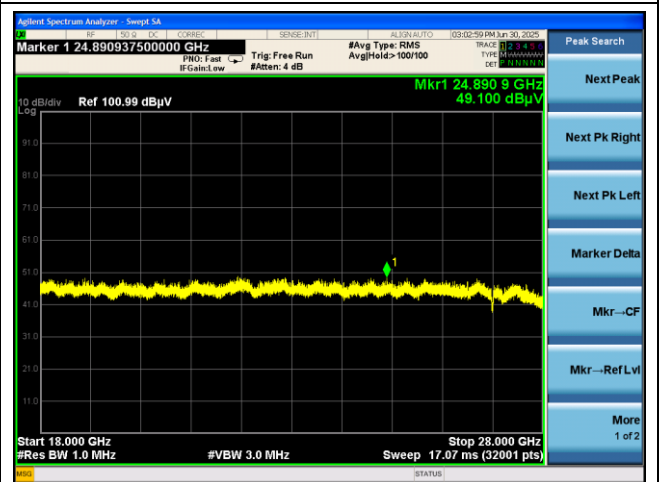
30 MHz – 1 GHz



1 GHz – 3 GHz



3 MHz – 18 GHz



18 MHz – 28 GHz

71A-n66A (40 MHz - DFTS-OFDM BPSK)

Frequency (MHz)	Measured Level (dBμV)	Ant. Pol.	AF (dB/m)	AMP+CL (dB)	E (dBμV/m)	CF (dB)	E.I.R.P. (dB m)	Limit (dB m)	Margin (dB)
Low Channel (1 730.0 MHz)									
3 498.44	42.93	H	31.10	-31.00	43.03	-95.26	-52.23	-13	39.23
3 498.41	41.36	V	31.10	-31.00	41.46	-95.26	-53.80	-13	40.80
Above 3 500.00	Not detected	-	-	-	-	-	-	-	-
Middle Channel (1 745.0 MHz)									
3 528.27	41.30	H	31.16	-31.19	41.27	-95.26	-53.99	-13	40.99
3 528.33	41.80	V	31.16	-31.19	41.77	-95.26	-53.49	-13	40.49
5 292.51	37.33	H	33.89	-28.30	42.92	-95.26	-52.34	-13	39.34
5 292.51	42.21	V	33.89	-28.30	47.80	-95.26	-47.46	-13	34.46
Above 5 300.00	Not detected	-	-	-	-	-	-	-	-
High Channel (1 760.0 MHz)									
5 337.39	41.79	H	33.97	-28.21	47.55	-95.26	-47.71	-13	34.71
5 337.35	47.19	V	33.97	-28.21	52.95	-95.26	-42.31	-13	29.31
Above 5 400.00	Not detected	-	-	-	-	-	-	-	-

Remark;

1. AF = Antenna Factor, CL = Cable Loss, CF = Conversion Factor.
2. E (dBμV/m) = Measured Level (dBμV) + Antenna Factor (dB/m) + AMP (dB) + Cable Loss (dB).
3. E.I.R.P. (dB m) = E (dBμV/m) + CF (dB).
4. E.R.P. (dB m) = E (dBμV/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 kHz 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.
7. '**' means the noise level.
8. To verify compliance with the limit in cases where no spurious emissions were detected, the noise level was reported for only one channel.

-External Antenna

SISO

NR Band 7 (25 MHz - DFT-S-OFDM QPSK)

Frequency (MHz)	Measured Level (dBμV)	Ant. Pol.	AF (dB/m)	AMP+CL (dB)	E (dBμV/m)	CF (dB)	E.I.R.P. (dB m)	Limit (dB m)	Margin (dB)
Low Channel (2 512.5 MHz)									
5 048.39	43.31	H	33.50	-28.21	48.60	-95.26	-46.66	-25	21.66
5 048.52	48.72	V	33.50	-28.21	54.01	-95.26	-41.25	-25	16.25
7 572.49	36.70	H	36.00	-24.81	47.89	-95.26	-47.37	-25	22.37
7 572.58	38.09	V	36.00	-24.81	49.28	-95.26	-45.98	-25	20.98
Above 7 600.00	Not detected	-	-	-	-	-	-	-	-
Middle Channel (2 535.0 MHz)									
5 093.67	39.22	H	33.50	-28.76	43.96	-95.26	-51.30	-25	26.30
5 093.54	47.31	V	33.50	-28.76	52.05	-95.26	-43.21	-25	18.21
7 639.86	37.01	H	35.92	-24.39	48.54	-95.26	-46.72	-25	21.72
7 640.00	39.66	V	35.92	-24.39	51.19	-95.26	-44.07	-25	19.07
Above 7 700.00	Not detected	-	-	-	-	-	-	-	-
High Channel (2 557.5 MHz)									
5 138.23	45.47	H	33.58	-28.16	50.89	-95.26	-44.37	-25	19.37
5 138.39	50.44	V	33.58	-28.16	55.86	-95.26	-39.40	-25	14.40
7 707.31	36.87	H	35.90	-24.59	48.18	-95.26	-47.08	-25	22.08
7 707.46	38.77	V	35.90	-24.59	50.08	-95.26	-45.18	-25	20.18
Above 7 800.00	Not detected	-	-	-	-	-	-	-	-

NR Band 25 (30 MHz - DFT-S-OFDM BPSK)

Frequency (MHz)	Measured Level (dBμV)	Ant. Pol.	AF (dB/m)	AMP+CL (dB)	E (dBμV/m)	CF (dB)	E.I.R.P. (dB m)	Limit (dB m)	Margin (dB)
Low Channel (1 865.0 MHz)									
3 758.41	43.06	H	32.22	-30.80	44.48	-95.26	-50.78	-13	37.78
3 758.08	47.30	V	32.22	-30.80	48.72	-95.26	-46.54	-13	33.54
5 637.67	40.42	V	34.10	-27.68	46.84	-95.26	-48.42	-13	35.42
Above 5 700.00	Not detected	–	–	–	–	–	–	–	–
Middle Channel (1 882.5 MHz)									
3 793.18	44.12	H	32.29	-30.48	45.93	-95.26	-49.33	-13	36.33
3 793.11	48.91	V	32.29	-30.48	50.72	-95.26	-44.54	-13	31.54
5 689.63	39.44	V	34.18	-27.28	46.34	-95.26	-48.92	-13	35.92
Above 5 700.00	Not detected	–	–	–	–	–	–	–	–
High Channel (1 900.0 MHz)									
3 827.99	45.22	H	32.30	-30.46	47.06	-95.26	-48.20	-13	35.20
3 828.12	52.37	V	32.30	-30.46	54.21	-95.26	<u>-41.05</u>	-13	28.05
5 742.14	41.11	V	34.20	-27.10	48.21	-95.26	-47.05	-13	34.05
Above 5 800.00	Not detected	–	–	–	–	–	–	–	–

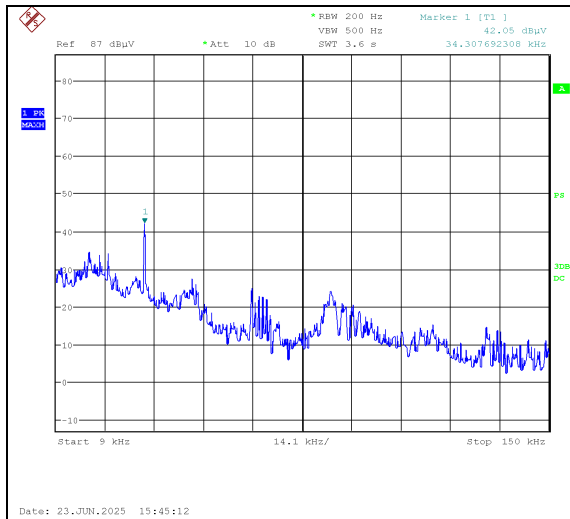
NR Band 41 (70 MHz - DFT-S-OFDM BPSK)

Frequency (MHz)	Measured Level (dBμV)	Ant. Pol.	AF (dB/m)	(AMP)+CL (dB)	E (dBμV/m)	CF (dB)	E.I.R.P. (dB m)	Limit (dB m)	Margin (dB)
Low Channel (2 531.01 MHz)									
5 128.75	63.33	H	33.56	-28.32	68.57	-95.26	-26.69	-25	1.69
5 129.17	63.14	V	33.56	-28.31	68.39	-95.26	-26.87	-25	1.87
7 693.20	52.73	H	35.90	-24.53	64.10	-95.26	-31.16	-25	6.16
7 693.43	49.31	V	35.90	-24.53	60.68	-95.26	-34.58	-25	9.58
Above 7 700.00	Not detected	-	-	-	-	-	-	-	-
Middle Channel (2 592.99 MHz)									
5 252.72	57.13	H	33.81	-28.12	62.82	-95.26	-32.44	-25	7.44
5 252.89	61.38	V	33.81	-28.13	67.06	-95.26	-28.20	-25	3.20
7 879.07	52.67	H	36.00	-24.66	64.01	-95.26	-31.25	-25	6.25
7 879.66	49.39	V	36.00	-24.66	60.73	-95.26	-34.53	-25	9.53
Above 7 900.00	Not detected	-	-	-	-	-	-	-	-
High Channel (2 655.00 MHz)									
5 376.98	48.83	H	34.05	-27.91	54.97	-95.26	-40.29	-25	15.29
5 377.17	46.99	V	34.05	-27.91	53.13	-95.26	-42.13	-25	17.13
8 065.40	35.33	H	36.23	-23.76	47.80	-95.26	-47.46	-25	22.46
8 065.35	35.22	V	36.23	-23.76	47.69	-95.26	-47.57	-25	22.57
Above 8 100.00	Not detected	-	-	-	-	-	-	-	-

MIMO

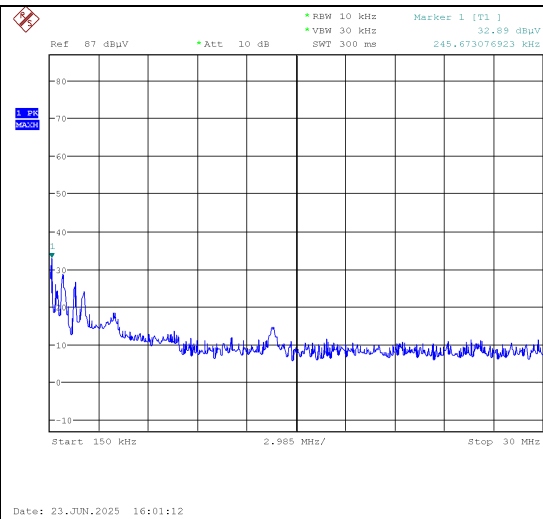
NR Band 41 (70 MHz - DFT-S-OFDM QPSK)

Frequency (MHz)	Measured Level (dBμV)	Ant. Pol.	AF (dB/m)	AMP+CL (dB)	E (dBμV/m)	CF (dB)	E.I.R.P. (dB m)	Limit (dB m)	Margin (dB)
Low Channel (2 531.01 MHz)									
Below 1 000.00	Not detected	–	–	–	–	–	–	–	–
Above 1 000.00	Not detected	–	–	–	–	–	–	–	–
Middle Channel (2 592.99 MHz)									
**0.034	42.05	–	18.39	0.11	60.55	-95.26	-34.71	-25	9.71
**0.246	32.89	–	18.20	0.20	51.29	-95.26	-43.97	-25	18.97
**934.82	18.92	–	28.26	4.52	51.70	-95.26	-43.56	-25	18.56
**3 058.10	40.18	–	30.03	-31.77	38.44	-95.26	-56.82	-25	31.82
**24 426.75	51.39	–	39.03	-32.88	57.54	-95.26	-37.72	-25	12.72
High Channel (2 655.00 MHz)									
Below 1 000.00	Not detected	–	–	–	–	–	–	–	–
Above 1 000.00	Not detected	–	–	–	–	–	–	–	–



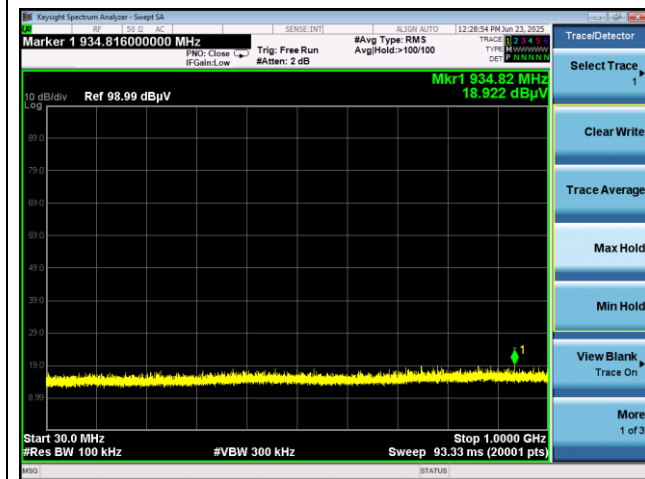
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9 kHz – 150 kHz

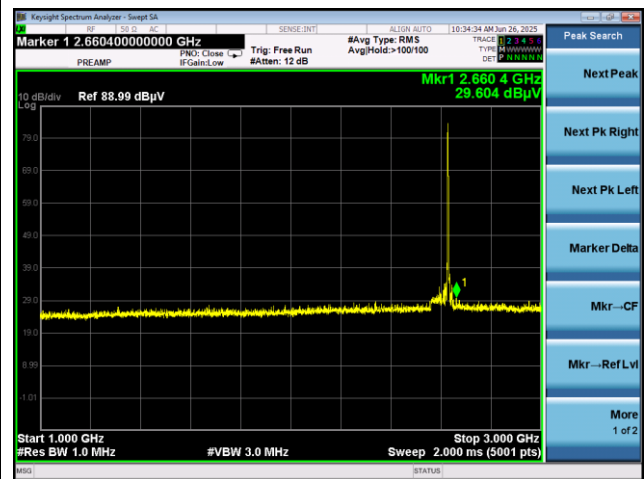


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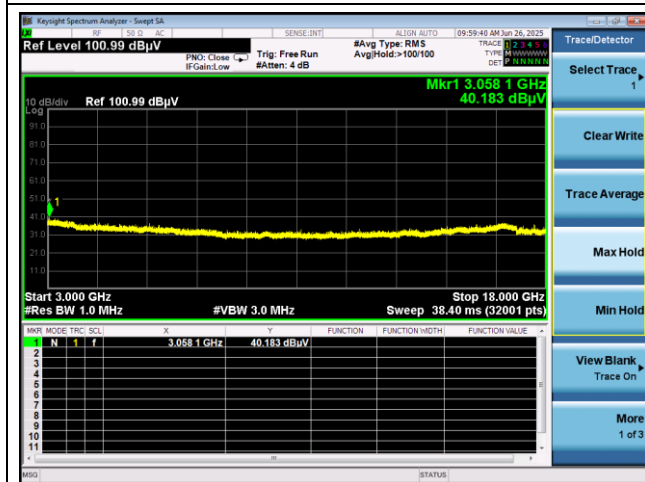
150 kHz – 30 MHz



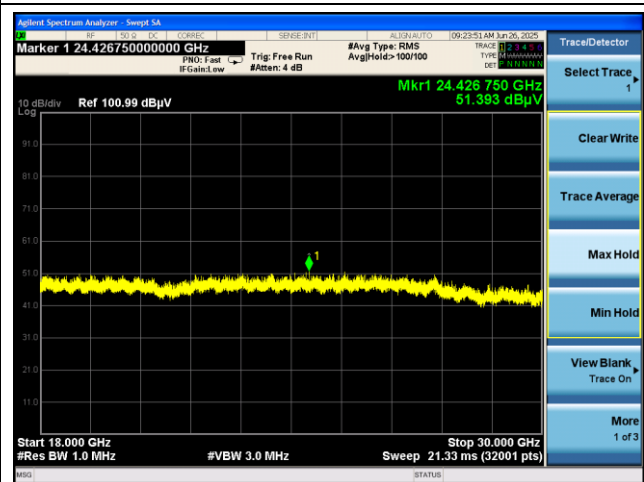
30 MHz – 1 GHz



1 GHz – 3 GHz



3 MHz – 18 GHz



18 MHz – 30 GHz

ENDC

71A-n2A (15 MHz - DFTS-OFDM QPSK)

Frequency (MHz)	Measured Level (dBμV)	Ant. Pol.	AF (dB/m)	AMP+CL (dB)	E (dBμV/m)	CF (dB)	E.I.R.P. (dB m)	Limit (dB m)	Margin (dB)
Low Channel (1 857.5 MHz)									
3 728.77	44.43	H	32.12	-30.85	45.70	-95.26	-49.56	-13	36.56
3 728.75	46.81	V	32.12	-30.85	48.08	-95.26	-47.18	-13	34.18
5 593.18	40.90	H	34.10	-27.69	47.31	-95.26	-47.95	-13	34.95
5 593.02	45.17	V	34.10	-27.68	51.59	-95.26	-43.67	-13	30.67
Above 5 600.00	Not detected	—	—	—	—	—	—	—	—
Middle Channel (1 880.0 MHz)									
3 778.81	48.97	H	32.26	-30.65	50.58	-95.26	-44.68	-13	31.68
3 778.58	51.85	V	32.26	-30.66	53.45	-95.26	-41.81	-13	28.81
5 667.99	41.51	H	34.14	-27.49	48.16	-95.26	-47.10	-13	34.10
5 667.92	44.85	V	34.14	-27.49	51.50	-95.26	-43.76	-13	30.76
Above 5 700.00	Not detected	—	—	—	—	—	—	—	—
High Channel (1 902.5 MHz)									
3 818.70	53.27	H	32.30	-30.43	55.14	-95.26	-40.12	-13	27.12
3 818.79	52.18	V	32.30	-30.43	54.05	-95.26	-41.21	-13	28.21
5 728.00	42.04	H	34.20	-27.23	49.01	-95.26	-46.25	-13	33.25
5 728.03	41.32	V	34.20	-27.23	48.29	-95.26	-46.97	-13	33.97
Above 5 800.00	Not detected	—	—	—	—	—	—	—	—

71A-n7A (20 MHz - DFTS-OFDM BPSK)

Frequency (MHz)	Measured Level (dBμV)	Ant. Pol.	AF (dB/m)	AMP+CL (dB)	E (dBμV/m)	CF (dB)	E.I.R.P. (dB m)	Limit (dB m)	Margin (dB)
Low Channel (2 510.0 MHz)									
5 038.55	42.20	H	33.50	-28.23	47.47	-95.26	-47.79	-25	22.79
5 038.53	47.72	V	33.50	-28.23	52.99	-95.26	-42.27	-25	17.27
Above 5 100.00	Not detected	-	-	-	-	-	-	-	-
Middle Channel (2 535.0 MHz)									
5 088.35	45.94	H	33.50	-28.72	50.72	-95.26	-44.54	-25	19.54
5 088.48	48.52	V	33.50	-28.72	53.30	-95.26	-41.96	-25	16.96
Above 5 100.00	Not detected	-	-	-	-	-	-	-	-
High Channel (2 560.0 MHz)									
5 138.43	45.08	H	33.58	-28.16	50.50	-95.26	-44.76	-25	19.76
5 138.65	49.71	V	33.58	-28.16	55.13	-95.26	-40.13	-25	15.13
Above 5 200.00	Not detected	-	-	-	-	-	-	-	-

71A-n41A (40 MHz - DFTS-OFDM BPSK)

Frequency (MHz)	Measured Level (dB μ V)	Ant. Pol.	AF (dB/m)	(AMP)+CL (dB)	E (dB μ V/m)	CF (dB)	E.I.R.P. (dB m)	Limit (dB m)	Margin (dB)
Low Channel (2 516.01 MHz)									
4 994.50	64.03	H	33.49	-28.85	68.67	-95.26	-26.59	-25	1.59
4 994.75	56.61	V	33.49	-28.86	61.24	-95.26	-34.02	-25	9.02
7 492.23	47.80	H	36.10	-24.65	59.25	-95.26	-36.01	-25	11.01
7 492.21	45.82	V	36.10	-24.64	57.28	-95.26	-37.98	-25	12.98
Above 7 500.00	Not detected	-	-	-	-	-	-	-	-
Middle Channel (2 592.99 MHz)									
5 149.32	62.97	H	33.60	-27.97	68.60	-95.26	-26.66	-25	1.66
5 149.32	62.12	V	33.60	-27.97	67.75	-95.26	-27.51	-25	2.51
7 722.75	56.92	H	35.90	-24.74	68.08	-95.26	-27.18	-25	2.18
7 723.07	49.84	V	35.90	-24.74	61.00	-95.26	-34.26	-25	9.26
Above 7 800.00	Not detected	-	-	-	-	-	-	-	-
High Channel (2 670.00 MHz)									
5 302.72	42.49	H	33.91	-28.25	48.15	-95.26	-47.11	-25	22.11
5 302.88	48.72	V	33.91	-28.25	54.38	-95.26	-40.88	-25	15.88
Above 5 400.00	Not detected	-	-	-	-	-	-	-	-

71A-n66A (40 MHz - DFTS-OFDM BPSK)

Frequency (MHz)	Measured Level (dBμV)	Ant. Pol.	AF (dB/m)	AMP+CL (dB)	E (dBμV/m)	CF (dB)	E.I.R.P. (dB m)	Limit (dB m)	Margin (dB)
Low Channel (1 730.0 MHz)									
3 498.16	39.77	H	31.10	-31.00	39.87	-95.26	-55.39	-13	42.39
3 472.42	40.97	V	31.04	-31.00	41.01	-95.26	-54.25	-13	41.25
Above 3 500.00	Not detected	-	-	-	-	-	-	-	-
Middle Channel (1 745.0 MHz)									
3 528.20	45.38	H	31.16	-31.20	45.34	-95.26	-49.92	-13	36.92
3 528.31	46.37	V	31.16	-31.19	46.34	-95.26	-48.92	-13	35.92
Above 3 600.00	Not detected	-	-	-	-	-	-	-	-
High Channel (1 760.0 MHz)									
3 558.36	51.90	H	31.23	-30.97	52.16	-95.26	-43.10	-13	30.10
3 558.34	52.08	V	31.23	-30.97	52.34	-95.26	-42.92	-13	29.92
Above 3 600.00	Not detected	-	-	-	-	-	-	-	-

Remark;

1. AF = Antenna Factor, CL = Cable Loss, CF = Conversion Factor.
2. E (dBμV/m) = Measured Level (dBμV) + Antenna Factor (dB/m) + AMP (dB) + Cable Loss (dB).
3. E.I.R.P. (dB m) = E (dBμV/m) + CF (dB).
4. E.R.P. (dB m) = E (dBμV/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 kHz 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.
7. '**' means the noise level.
8. To verify compliance with the limit in cases where no spurious emissions were detected, the noise level was reported for only one channel.

3. Conducted Output Power

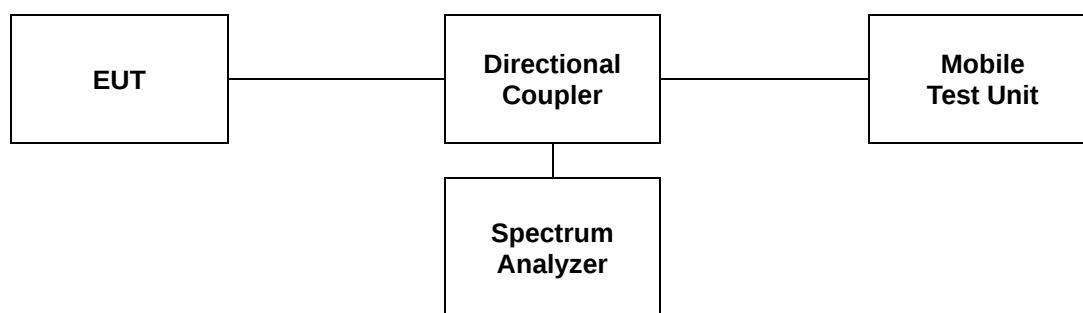
3.1. Limit

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. This EUT was tested under all configurations and the highest power was investigated and reported.



3.3. Test Result

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

SISO

NR Band 7														
Worst Ant. Gain							6.13 dB i							
Limit: 2W EIRP														
SCS (kHz)	BW (MHz)	Modulation		RB allocation	RB Size	RB Offset	502500 (2 512.5 MHz)		507000 (2 535.0 MHz)		511500 (2 557.5 MHz)		E.I.R.P.	
							(dB m)	(W)	(dB m)	(W)	(dB m)	(W)	(dB m)	(W)
15	25	DFT-S OFDM	BPSK	Inner_1RB Left	1	1	23.66	0.232	23.60	0.229	23.96	0.249	30.17	1.040
			QPSK		1	1	23.56	0.227	23.49	0.223	23.84	0.242		
			16QAM		1	1	23.04	0.201	22.97	0.198	<u>23.12</u>	0.205		
			64QAM		1	1	21.91	0.155	21.85	0.153	21.76	0.150		
			256QAM		1	1	19.53	0.090	19.73	0.094	19.64	0.092		
			BPSK	Inner_1RB Right	1	131	<u>24.03</u>	0.253	23.99	0.251	23.58	0.228		
			QPSK		1	131	<u>24.04</u>	0.254	23.88	0.244	23.48	0.223		
			BPSK	Inner_Full	64	32	23.68	0.233	23.86	0.243	24.03	0.253		
			QPSK		64	32	23.57	0.228	23.76	0.238	23.89	0.245		
			BPSK	Outer_Full	128	0	23.56	0.227	23.50	0.224	23.58	0.228		
			QPSK		128	0	23.32	0.215	23.20	0.209	23.13	0.206		
			BPSK	Edge_1RB Left	1	0	23.38	0.218	23.36	0.217	23.58	0.228		
			QPSK		1	0	23.12	0.205	23.04	0.201	23.12	0.205		
			BPSK	Edge_Full Left	2	0	23.42	0.220	23.40	0.219	23.67	0.233		
			QPSK		2	0	23.27	0.212	23.23	0.210	23.22	0.210		
			BPSK	Edge_1RB Right	1	132	23.57	0.228	23.57	0.228	22.99	0.199		
			QPSK		1	132	23.01	0.200	23.08	0.203	22.95	0.197		
			BPSK	Edge_Full Right	2	131	23.68	0.233	23.51	0.224	23.03	0.201		
			QPSK		2	131	23.16	0.207	23.21	0.209	23.12	0.205		
			CP- OFDM	QPSK	Inner_1RB Left	1	1	22.14	0.164	22.34	0.171	<u>22.65</u>		
		16QAM		1		1	21.98	0.158	22.08	0.161	<u>22.12</u>	0.163		

NR Band 7														
Worst Ant. Gain							6.13 dB i							
Limit: 2W EIRP														
SCS (kHz)	BW (MHz)	Modulation		RB allocation	RB Size	RB Offset	503000 (2 515.0 MHz)		507000 (2 535.0 MHz)		511000 (2 555.0 MHz)		E.I.R.P.	
							(dB m)	(W)	(dB m)	(W)	(dB m)	(W)	(dB m)	(W)
15	30	DFT-S OFDM	BPSK	Inner_1RB Left	1	1	23.12	0.205	23.43	0.220	23.65	0.232	30.12	1.028
			QPSK		1	1	23.05	0.202	23.34	0.216	23.57	0.228		
			16QAM		1	1	22.47	0.177	22.87	0.194	<u>22.93</u>	0.196		
			64QAM		1	1	21.58	0.144	21.66	0.147	21.61	0.145		
			256QAM		1	1	19.66	0.092	19.98	0.100	19.72	0.094		
			BPSK	Inner_1RB Right	1	158	23.10	0.204	23.43	0.220	23.26	0.212		
			QPSK		1	158	23.02	0.200	23.33	0.215	23.16	0.207		
			BPSK	Inner_Full	80	40	<u>23.98</u>	0.250	23.52	0.225	23.97	0.249		
			QPSK		80	40	<u>23.99</u>	0.251	23.54	0.226	23.90	0.245		
			BPSK	Outer_Full	160	0	23.67	0.233	23.56	0.227	23.63	0.231		
			QPSK		160	0	23.21	0.209	23.24	0.211	23.15	0.207		
			BPSK	Edge_1RB Left	1	0	23.02	0.200	23.34	0.216	23.46	0.222		
			QPSK		1	0	23.00	0.200	23.06	0.202	22.94	0.197		
			BPSK	Edge_Full Left	2	0	23.10	0.204	23.40	0.219	23.53	0.225		
			QPSK		2	0	23.11	0.205	23.17	0.207	23.11	0.205		
			BPSK	Edge_1RB Right	1	159	23.05	0.202	23.57	0.228	22.71	0.187		
			QPSK		1	159	22.98	0.199	23.05	0.202	22.79	0.190		
			BPSK	Edge_Full Right	2	158	23.11	0.205	23.65	0.232	22.77	0.189		
			QPSK		2	158	23.23	0.210	23.14	0.206	23.11	0.205		
			CP- OFDM	QPSK	Inner_1RB Left	1	1	21.96	0.157	22.01	0.159	<u>22.26</u>		
		16QAM		1		1	21.74	0.149	21.88	0.154	<u>22.07</u>	0.161		

NR Band 7														
Worst Ant. Gain							6.13 dB i							
Limit: 2W EIRP														
SCS (kHz)	BW (MHz)	Modulation		RB allocation	RB Size	RB Offset	504000 (2 520.0 MHz)		507000 (2 535.0 MHz)		5110000 (2 550.0 MHz)		E.I.R.P.	
							(dB m)	(W)	(dB m)	(W)	(dB m)	(W)	(dB m)	(W)
15	40	DFT-S OFDM	BPSK	Inner_1RB Left	1	1	23.68	0.233	23.79	0.239	23.66	0.232	30.10	1.023
			QPSK		1	1	23.62	0.230	23.69	0.234	23.59	0.229		
			16QAM		1	1	22.92	0.196	22.90	0.195	<u>23.02</u>	0.200		
			64QAM		1	1	21.73	0.149	21.61	0.145	21.57	0.144		
			256QAM		1	1	19.74	0.094	19.76	0.095	19.77	0.095		
			BPSK	Inner_1RB Right	1	214	23.80	0.240	23.88	0.244	22.87	0.194		
			QPSK		1	214	23.72	0.236	23.95	0.248	22.75	0.188		
			BPSK	Inner_Full	108	54	23.94	0.248	23.63	0.231	<u>23.95</u>	0.248		
			QPSK		108	54	23.83	0.242	23.49	0.223	<u>23.97</u>	0.249		
			BPSK	Outer_Full	216	0	23.63	0.231	23.57	0.228	23.59	0.229		
			QPSK		216	0	23.26	0.212	23.23	0.210	23.16	0.207		
			BPSK	Edge_1RB Left	1	0	23.21	0.209	23.52	0.225	23.41	0.219		
			QPSK		1	0	23.04	0.201	22.98	0.199	23.05	0.202		
			BPSK	Edge_Full Left	2	0	23.28	0.213	23.49	0.223	23.47	0.222		
			QPSK		2	0	23.19	0.208	23.17	0.207	23.18	0.208		
			BPSK	Edge_1RB Right	1	215	23.35	0.216	23.51	0.224	22.72	0.187		
			QPSK		1	215	23.04	0.201	23.04	0.201	22.62	0.183		
			BPSK	Edge_Full Right	2	214	23.42	0.220	23.52	0.225	22.78	0.190		
			QPSK		2	214	23.21	0.209	23.13	0.206	22.68	0.185		
			CP- OFDM	QPSK	Inner_1RB Left	1	1	22.57	0.181	22.35	0.172	<u>22.66</u>		
		16QAM		1		1	22.15	0.164	22.00	0.158	<u>22.21</u>	0.166		

NR Band 25														
Worst Ant. Gain							5.18 dBi							
Limit: 2W EIRP														
SCS (kHz)	BW (MHz)	Modulation		RB allocation	RB Size	RB Offset	372500 (1 862.5 MHz)		376500 (1 882.5 MHz)		380500 (1 902.5 MHz)		E.I.R.P.	
							(dB m)	(W)	(dB m)	(W)	(dB m)	(W)	(dB m)	(W)
15	25	DFT-S OFDM	BPSK	Inner_1RB Left	1	1	<u>23.48</u>	<u>0.223</u>	23.39	0.218	22.57	0.181	28.70	0.741
			QPSK		1	1	<u>23.52</u>	<u>0.225</u>	23.26	0.212	22.38	0.173		
			16QAM		1	1	<u>22.61</u>	<u>0.182</u>	22.45	0.176	21.82	0.152		
			64QAM		1	1	21.15	0.130	21.03	0.127	21.01	0.126		
			256QAM		1	1	19.24	0.084	19.12	0.082	19.16	0.082		
			BPSK	Inner_1RB Right	1	131	22.79	0.190	23.00	0.200	21.97	0.157		
			QPSK		1	131	22.64	0.184	22.79	0.190	21.86	0.153		
			BPSK	Inner_Full	64	32	23.42	0.220	23.46	0.222	22.60	0.182		
			QPSK		64	32	23.48	0.223	23.45	0.221	22.52	0.179		
			BPSK	Outer_Full	128	0	22.91	0.195	22.94	0.197	22.53	0.179		
			QPSK		128	0	22.53	0.179	22.48	0.177	22.30	0.170		
			BPSK	Edge_1RB Left	1	0	22.97	0.198	22.97	0.198	22.59	0.182		
			QPSK		1	0	22.47	0.177	22.42	0.175	22.41	0.174		
			BPSK	Edge_Full Left	2	0	23.01	0.200	23.03	0.201	22.66	0.185		
			QPSK		2	0	22.70	0.186	22.53	0.179	22.55	0.180		
			BPSK	Edge_1RB Right	1	132	22.86	0.193	22.75	0.188	22.06	0.161		
			QPSK		1	132	22.41	0.174	22.52	0.179	21.56	0.143		
			BPSK	Edge_Full Right	2	131	22.94	0.197	22.88	0.194	22.15	0.164		
			QPSK		2	131	22.52	0.179	22.60	0.182	22.08	0.161		
			CP- OFDM	QPSK	Inner_1RB Left	1	1	21.78	0.151	<u>21.93</u>	<u>0.156</u>	21.29		
		16QAM		1		1	21.42	0.139	<u>21.47</u>	<u>0.140</u>	21.23	0.133		

NR Band 25														
Worst Ant. Gain							5.18 dB i							
Limit: 2W EIRP														
SCS (kHz)	BW (MHz)	Modulation		RB allocation	RB Size	RB Offset	373000 (1 865.0 MHz)		376500 (1 882.5 MHz)		380000 (1 900.0 MHz)		E.I.R.P.	
							(dB m)	(W)	(dB m)	(W)	(dB m)	(W)	(dB m)	(W)
15	30	DFT-S OFDM	BPSK	Inner_1RB Left	1	1	23.52	0.225	22.97	0.198	23.15	0.207	28.84	0.766
			QPSK		1	1	23.39	0.218	22.76	0.189	22.90	0.195		
			16QAM		1	1	<u>22.50</u>	<u>0.178</u>	22.10	0.162	22.31	0.170		
			64QAM		1	1	21.13	0.130	21.23	0.133	21.19	0.132		
			256QAM		1	1	19.24	0.084	19.15	0.082	19.19	0.083		
			BPSK	Inner_1RB Right	1	158	<u>23.66</u>	<u>0.232</u>	23.03	0.201	21.67	0.147		
			QPSK		1	158	<u>23.60</u>	<u>0.229</u>	22.85	0.193	21.52	0.142		
			BPSK	Inner_Full	80	40	22.85	0.193	23.56	0.227	23.20	0.209		
			QPSK		80	40	22.27	0.169	23.59	0.229	23.13	0.206		
			BPSK	Outer_Full	160	0	22.99	0.199	23.12	0.205	22.88	0.194		
			QPSK		160	0	22.53	0.179	22.65	0.184	22.58	0.181		
			BPSK	Edge_1RB Left	1	0	23.01	0.200	23.04	0.201	22.87	0.194		
			QPSK		1	0	22.53	0.179	22.54	0.179	22.55	0.180		
			BPSK	Edge_Full Left	2	0	23.12	0.205	23.08	0.203	22.98	0.199		
			QPSK		2	0	22.69	0.186	22.70	0.186	22.71	0.187		
			BPSK	Edge_1RB Right	1	159	22.83	0.192	22.74	0.188	21.51	0.142		
			QPSK		1	159	22.57	0.181	22.66	0.185	21.49	0.141		
			BPSK	Edge_Full Right	2	158	22.90	0.195	22.77	0.189	21.61	0.145		
			QPSK		2	158	22.60	0.182	22.75	0.188	21.60	0.145		
			CP- OFDM	QPSK	Inner_1RB Left	1	1	21.74	0.149	<u>21.91</u>	<u>0.155</u>	21.16		
		16QAM		1		1	21.57	0.144	<u>21.68</u>	<u>0.147</u>	21.07	0.128		

NR Band 25														
Worst Ant. Gain							5.18 dBi							
Limit: 2W EIRP														
SCS (kHz)	BW (MHz)	Modulation		RB allocation	RB Size	RB Offset	374000 (1 870.0 MHz)		376500 (1 882.5 MHz)		379000 (1 895.0 MHz)		E.I.R.P.	
							(dB m)	(W)	(dB m)	(W)	(dB m)	(W)	(dB m)	(W)
15	40	DFT-S OFDM	BPSK	Inner_1RB Left	1	1	23.47	0.222	23.50	0.224	23.59	0.229	28.81	0.760
			QPSK		1	1	23.57	0.228	23.51	0.224	23.61	0.230		
			16QAM		1	1	22.59	0.182	<u>22.60</u>	<u>0.182</u>	22.56	0.180		
			64QAM		1	1	21.28	0.134	21.12	0.129	21.24	0.133		
			256QAM		1	1	19.36	0.086	19.10	0.081	19.31	0.085		
			BPSK	Inner_1RB Right	1	214	<u>23.62</u>	<u>0.230</u>	22.29	0.169	21.77	0.150		
			QPSK		1	214	<u>23.63</u>	<u>0.231</u>	22.23	0.167	21.63	0.146		
			BPSK	Inner_Full	108	54	23.58	0.228	23.52	0.225	23.31	0.214		
			QPSK		108	54	23.42	0.220	23.36	0.217	23.07	0.203		
			BPSK	Outer_Full	216	0	23.19	0.208	23.07	0.203	22.85	0.193		
			QPSK		216	0	22.52	0.179	22.58	0.181	22.56	0.180		
			BPSK	Edge_1RB Left	1	0	23.15	0.207	23.00	0.200	23.08	0.203		
			QPSK		1	0	22.66	0.185	22.57	0.181	22.67	0.185		
			BPSK	Edge_Full Left	2	0	23.26	0.212	22.92	0.196	23.19	0.208		
			QPSK		2	0	22.74	0.188	22.75	0.188	22.74	0.188		
			BPSK	Edge_1RB Right	1	215	23.08	0.203	22.27	0.169	21.48	0.141		
			QPSK		1	215	22.61	0.182	22.18	0.165	21.38	0.137		
			BPSK	Edge_Full Right	2	214	23.21	0.209	22.30	0.170	21.65	0.146		
			QPSK		2	214	22.81	0.191	22.19	0.166	21.46	0.140		
		CP- OFDM	QPSK	Inner_1RB Left	1	1	22.06	0.161	21.95	0.157	<u>22.19</u>	<u>0.166</u>	27.37	0.546
			16QAM		1	1	21.71	0.148	<u>21.80</u>	<u>0.151</u>	21.59	0.144		

NR Band 41														
Worst Ant. Gain							5.10 dB i							
Limit: 2 W EIRP														
SCS (kHz)	BW (MHz)	Modulation		RB allocation	RB Size	RB Offset	506202 (2 535.01 MHz)		518598 (2 592.99 MHz)		531000 (2 655.00 MHz)		E.I.R.P.	
							(dB m)	(W)	(dB m)	(W)	(dB m)	(W)	(dB m)	(W)
30	70	DFT-S OFDM	BPSK	Inner_1RB Left	1	1	24.61	0.289	24.61	0.289	24.62	0.290	29.87	0.971
			QPSK		1	1	24.58	0.287	24.60	0.288	24.61	0.289		
			16QAM		1	1	23.49	0.223	23.61	0.230	23.63	0.231		
			64QAM		1	1	22.54	0.179	22.63	0.183	22.62	0.183		
			256QAM		1	1	20.68	0.117	20.96	0.125	20.96	0.125		
			BPSK	Inner_1RB Right	1	187	24.59	0.288	24.42	0.277	24.40	0.275		
			QPSK		1	187	24.58	0.287	24.40	0.275	24.39	0.275		
			BPSK	Inner_Full	90	45	24.77	0.300	24.44	0.278	24.31	0.270		
			QPSK		90	45	24.72	0.296	24.38	0.274	24.12	0.258		
			BPSK	Outer_Full	180	0	23.45	0.221	23.62	0.230	23.62	0.230		
			QPSK		180	0	23.22	0.210	23.71	0.235	23.66	0.232		
			BPSK	Edge_1RB Left	1	0	21.96	0.157	21.92	0.156	23.01	0.200		
			QPSK		1	0	21.97	0.157	21.93	0.156	23.03	0.201		
			BPSK	Edge_Full Left	2	0	22.02	0.159	22.00	0.158	23.08	0.203		
			QPSK		2	0	22.02	0.159	21.99	0.158	23.07	0.203		
			BPSK	Edge_1RB Right	1	188	21.57	0.144	21.91	0.155	23.01	0.200		
			QPSK		1	188	21.57	0.144	21.91	0.155	22.71	0.187		
			BPSK	Edge_Full Right	2	187	21.64	0.146	21.98	0.158	23.12	0.205		
			QPSK		2	187	21.58	0.144	21.98	0.158	22.77	0.189		
			CP- OFDM	QPSK	Inner_1RB Left	1	1	22.77	0.189	23.11	0.205	23.06		
		16QAM		1		1	22.35	0.172	22.66	0.185	22.63	0.183		

MIMO

NR Band 41														
Worst Ant. Gain						Port 1 : 5.84 dB i		Port 2 : 4.43 dB i		Port 1+2 : 8.17 dB i				
Limit: 2 W EIRP														
SCS (kHz)	BW (MHz)	Modulation		RB allocation	RB Size	RB Offset	506202 (2 535.01 MHz)		518598 (2 592.99 MHz)		531000 (2 655.00 MHz)		E.I.R.P.	
							(dB m)	(W)	(dB m)	(W)	(dB m)	(W)	(dB m)	(W)
30	70	CP-OFDM	QPSK	Inner_1RB Left	1	1	<u>24.39</u>	0.275	24.27	0.267	24.02	0.252	32.56	1.803
			16QAM		1	1	<u>23.91</u>	0.246	23.80	0.240	23.51	0.224		
			64QAM		1	1	22.42	0.175	22.33	0.171	22.07	0.161		
			256QAM		1	1	19.42	0.087	19.34	0.086	19.06	0.081		
			QPSK	Inner_1RB Right	1	187	24.05	0.254	23.73	0.236	24.34	0.272		
			QPSK	Outer_Full	189	0	22.74	0.188	22.74	0.188	22.53	0.179		

ENDC

71A-n2A														
Worst Ant. Gain							5.18 dB i							
Limit: 2W EIRP														
SCS (kHz)	BW (MHz)	Modulation		RB allocation	RB Size	RB Offset	370500 (1 852.5 MHz)		376000 (1 880.0 MHz)		381500 (1 907.5 MHz)		E.I.R.P.	
							(dB m)	(W)	(dB m)	(W)	(dB m)	(W)	(dB m)	(W)
15	5	DFT-S OFDM	BPSK	Inner_1RB Left	1	1	23.45	0.221	23.3	0.214	22.26	0.168	28.85	0.767
			QPSK		1	1	23.53	0.225	23.25	0.211	22.28	0.169		
			BPSK	Inner_1RB Right	1	23	<u>23.57</u>	<u>0.228</u>	23.45	0.221	22.20	0.166		
			QPSK		1	23	23.56	0.227	23.38	0.218	22.14	0.164		
SCS (kHz)	BW (MHz)	Modulation		RB allocation	RB Size	RB Offset	371000 (1 855.0 MHz)		376000 (1 880.0 MHz)		381000 (1 905.0 MHz)		E.I.R.P.	
							(dB m)	(W)	(dB m)	(W)	(dB m)	(W)	(dB m)	(W)
15	10	DFT-S OFDM	BPSK	Inner_1RB Left	1	1	23.64	0.231	22.78	0.19	22.66	0.185	28.83	0.764
			QPSK		1	1	23.64	0.231	22.82	0.191	22.59	0.182		
			BPSK	Inner_1RB Right	1	50	23.60	0.229	23.13	0.206	22.23	0.167		
			QPSK		1	50	<u>23.65</u>	<u>0.232</u>	23.09	0.204	22.25	0.168		
SCS (kHz)	BW (MHz)	Modulation		RB allocation	RB Size	RB Offset	371500 (1 857.5 MHz)		376000 (1 880.0 MHz)		380500 (1 902.5 MHz)		E.I.R.P.	
							(dB m)	(W)	(dB m)	(W)	(dB m)	(W)	(dB m)	(W)
15	15	DFT-S OFDM	BPSK	Inner_1RB Left	1	1	23.31	0.214	23.63	0.231	23.59	0.229	28.84	0.766
			QPSK		1	1	23.28	0.213	23.61	0.230	23.60	0.229		
			BPSK	Inner_1RB Right	1	77	23.21	0.209	23.65	0.232	22.73	0.187		
			QPSK		1	77	23.15	0.207	<u>23.66</u>	<u>0.232</u>	22.68	0.185		
SCS (kHz)	BW (MHz)	Modulation		RB allocation	RB Size	RB Offset	372000 (1 860.0 MHz)		376000 (1 880.0 MHz)		380000 (1 900.0 MHz)		E.I.R.P.	
							(dB m)	(W)	(dB m)	(W)	(dB m)	(W)	(dB m)	(W)
15	20	DFT-S OFDM	BPSK	Inner_1RB Left	1	1	23.21	0.209	23.62	0.23	23.51	0.224	28.81	0.760
			QPSK		1	1	23.25	0.211	<u>23.63</u>	<u>0.231</u>	23.46	0.222		
			BPSK	Inner_1RB Right	1	104	23.01	0.200	23.60	0.229	22.43	0.175		
			QPSK		1	104	23.04	0.201	23.62	0.230	22.37	0.173		

71A-n7A														
Worst Ant. Gain							6.13 dB i							
Limit: 2W EIRP														
SCS (kHz)	BW (MHz)	Modulation		RB allocation	RB Size	RB Offset	500500 (2 502.5 MHz)		507000 (2 535.0 MHz)		513500 (2 567.5 MHz)		E.I.R.P.	
							(dB m)	(W)	(dB m)	(W)	(dB m)	(W)	(dB m)	(W)
15	5	DFT-S OFDM	BPSK	Inner_1RB Left	1	1	24.06	0.255	24.05	0.254	23.50	0.224	30.31	1.074
			QPSK		1	1	24.16	0.261	24.13	0.259	23.45	0.221		
			BPSK	Inner_1RB Right	1	23	24.11	0.258	24.03	0.253	23.43	0.220		
			QPSK		1	23	<u>24.18</u>	<u>0.262</u>	24.08	0.256	23.39	0.218		
SCS (kHz)	BW (MHz)	Modulation		RB allocation	RB Size	RB Offset	501000 (2 505.0 MHz)		507000 (2 535.0 MHz)		513000 (2 565.0 MHz)		E.I.R.P.	
							(dB m)	(W)	(dB m)	(W)	(dB m)	(W)	(dB m)	(W)
15	10	DFT-S OFDM	BPSK	Inner_1RB Left	1	1	23.98	0.250	<u>24.12</u>	<u>0.258</u>	23.34	0.216	30.25	1.059
			QPSK		1	1	24.03	0.253	24.11	0.258	23.30	0.214		
			BPSK	Inner_1RB Right	1	50	24.06	0.255	24.00	0.251	23.41	0.219		
			QPSK		1	50	24.08	0.256	24.03	0.253	23.38	0.218		
SCS (kHz)	BW (MHz)	Modulation		RB allocation	RB Size	RB Offset	501500 (2 507.5 MHz)		507000 (2 535.0 MHz)		512500 (2 562.5 MHz)		E.I.R.P.	
							(dB m)	(W)	(dB m)	(W)	(dB m)	(W)	(dB m)	(W)
15	15	DFT-S OFDM	BPSK	Inner_1RB Left	1	1	24.09	0.256	24.20	0.263	23.92	0.247	30.42	1.102
			QPSK		1	1	24.16	0.261	24.16	0.261	23.98	0.250		
			BPSK	Inner_1RB Right	1	77	24.27	0.267	24.00	0.251	23.88	0.244		
			QPSK		1	77	<u>24.29</u>	<u>0.269</u>	24.10	0.257	23.85	0.243		
SCS (kHz)	BW (MHz)	Modulation		RB allocation	RB Size	RB Offset	502000 (2 510.0 MHz)		507000 (2 535.0 MHz)		512000 (2 560.0 MHz)		E.I.R.P.	
							(dB m)	(W)	(dB m)	(W)	(dB m)	(W)	(dB m)	(W)
15	20	DFT-S OFDM	BPSK	Inner_1RB Left	1	1	24.12	0.258	24.21	0.264	23.90	0.245	30.48	1.117
			QPSK		1	1	24.19	0.262	24.17	0.261	23.91	0.246		
			BPSK	Inner_1RB Right	1	104	<u>24.35</u>	<u>0.272</u>	23.95	0.248	23.86	0.243		
			QPSK		1	104	24.30	0.269	23.99	0.251	23.83	0.242		

71A-n7A														
Worst Ant. Gain							6.13 dB i							
Limit: 2W EIRP														
SCS (kHz)	BW (MHz)	Modulation		RB allocation	RB Size	RB Offset	502500 (2 512.5 MHz)		507000 (2 535.0 MHz)		511500 (2 557.5 MHz)		E.I.R.P.	
							(dB m)	(W)	(dB m)	(W)	(dB m)	(W)	(dB m)	(W)
15	25	DFT-S OFDM	BPSK	Inner_1RB Left	1	1	23.42	0.220	23.57	0.228	23.57	0.228	30.00	1.000
			QPSK		1	1	23.37	0.217	23.49	0.223	23.48	0.223		
			BPSK	Inner_1RB Right	1	131	<u>23.87</u>	<u>0.244</u>	23.31	0.214	23.46	0.222		
			QPSK		1	131	23.79	0.239	23.29	0.213	23.44	0.221		
SCS (kHz)	BW (MHz)	Modulation		RB allocation	RB Size	RB Offset	503000 (2 515.0 MHz)		507000 (2 535.0 MHz)		511000 (2 555.0 MHz)		E.I.R.P.	
							(dB m)	(W)	(dB m)	(W)	(dB m)	(W)	(dB m)	(W)
15	30	DFT-S OFDM	BPSK	Inner_1RB Left	1	1	23.19	0.208	<u>23.26</u>	<u>0.212</u>	23.15	0.207	29.39	0.869
			QPSK		1	1	23.15	0.207	23.19	0.208	23.25	0.211		
			BPSK	Inner_1RB Right	1	158	23.07	0.203	23.19	0.208	23.03	0.201		
			QPSK		1	158	23.00	0.200	23.11	0.205	23.02	0.200		
SCS (kHz)	BW (MHz)	Modulation		RB allocation	RB Size	RB Offset	504000 (2 520.0 MHz)		507000 (2 535.0 MHz)		5110000 (2 550.0 MHz)		E.I.R.P.	
							(dB m)	(W)	(dB m)	(W)	(dB m)	(W)	(dB m)	(W)
15	40	DFT-S OFDM	BPSK	Inner_1RB Left	1	1	<u>23.76</u>	<u>0.238</u>	23.40	0.219	23.55	0.226	29.89	0.975
			QPSK		1	1	23.74	0.237	23.32	0.215	23.53	0.225		
			BPSK	Inner_1RB Right	1	214	23.71	0.235	23.65	0.232	23.51	0.224		
			QPSK		1	214	23.67	0.233	23.61	0.230	22.11	0.163		

71A-n41A														
Worst Ant. Gain							5.10 dB i							
Limit: 2W EIRP														
SCS (kHz)	BW (MHz)	Modulation		RB allocation	RB Size	RB Offset	501204 (2 506.02 MHz)		518598 (2 592.99 MHz)		535998 (2 679.99 MHz)		E.I.R.P.	
							(dB m)	(W)	(dB m)	(W)	(dB m)	(W)	(dB m)	(W)
30	20	DFT-S OFDM	BPSK	Inner_1RB Left	1	1	23.36	0.217	<u>23.66</u>	<u>0.232</u>	23.52	0.225	28.76	0.752
			QPSK		1	1	23.30	0.214	23.59	0.229	23.47	0.222		
			BPSK	Inner_1RB Right	1	49	23.50	0.224	23.61	0.230	23.18	0.208		
			QPSK		1	49	23.43	0.220	23.56	0.227	23.11	0.205		
SCS (kHz)	BW (MHz)	Modulation		RB allocation	RB Size	RB Offset	502200 (2 511.00 MHz)		518598 (2 592.99 MHz)		534996 (2 674.98 MHz)		E.I.R.P.	
							(dB m)	(W)	(dB m)	(W)	(dB m)	(W)	(dB m)	(W)
30	30	DFT-S OFDM	BPSK	Inner_1RB Left	1	1	23.54	0.226	23.70	0.234	<u>23.80</u>	<u>0.240</u>	28.90	0.776
			QPSK		1	1	23.56	0.227	23.62	0.230	23.73	0.236		
			BPSK	Inner_1RB Right	1	76	23.61	0.230	23.77	0.238	23.18	0.208		
			QPSK		1	76	23.54	0.226	23.74	0.237	23.10	0.204		
SCS (kHz)	BW (MHz)	Modulation		RB allocation	RB Size	RB Offset	503202 (2 516.01 MHz)		518598 (2 592.99 MHz)		534000 (2 670.00 MHz)		E.I.R.P.	
							(dB m)	(W)	(dB m)	(W)	(dB m)	(W)	(dB m)	(W)
30	40	DFT-S OFDM	BPSK	Inner_1RB Left	1	1	23.45	0.221	23.74	0.237	<u>23.83</u>	<u>0.242</u>	28.93	0.782
			QPSK		1	1	23.39	0.218	23.68	0.233	23.76	0.238		
			BPSK	Inner_1RB Right	1	104	23.44	0.221	23.72	0.236	22.91	0.195		
			QPSK		1	104	23.40	0.219	23.67	0.233	22.84	0.192		
SCS (kHz)	BW (MHz)	Modulation		RB allocation	RB Size	RB Offset	504204 (2 521.02 MHz)		518598 (2 592.99 MHz)		532998 (2 664.99 MHz)		E.I.R.P.	
							(dB m)	(W)	(dB m)	(W)	(dB m)	(W)	(dB m)	(W)
30	50	DFT-S OFDM	BPSK	Inner_1RB Left	1	1	23.41	0.219	23.60	0.229	<u>23.71</u>	<u>0.235</u>	28.81	0.760
			QPSK		1	1	23.39	0.218	23.56	0.227	23.64	0.231		
			BPSK	Inner_1RB Right	1	131	23.38	0.218	23.65	0.232	23.37	0.217		
			QPSK		1	131	23.31	0.214	23.61	0.230	23.30	0.214		
SCS (kHz)	BW (MHz)	Modulation		RB allocation	RB Size	RB Offset	505200 (2 526.00 MHz)		518598 (2 592.99 MHz)		531996 (2 659.98 MHz)		E.I.R.P.	
							(dB m)	(W)	(dB m)	(W)	(dB m)	(W)	(dB m)	(W)
30	60	DFT-S OFDM	BPSK	Inner_1RB Left	1	1	23.33	0.215	23.63	0.231	23.59	0.229	28.74	0.748
			QPSK		1	1	23.27	0.212	23.57	0.228	23.56	0.227		
			BPSK	Inner_1RB Right	1	160	23.31	0.214	<u>23.64</u>	<u>0.231</u>	23.36	0.217		
			QPSK		1	160	23.26	0.212	23.59	0.229	23.30	0.214		

71A-n41A														
Worst Ant. Gain							5.10 dB i							
Limit: 2W EIRP														
SCS (kHz)	BW (MHz)	Modulation		RB allocation	RB Size	RB Offset	506202 (2 531.01 MHz)		518598 (2 592.99 MHz)		535998 (2 679.99 MHz)		E.I.R.P.	
							(dB m)	(W)	(dB m)	(W)	(dB m)	(W)	(dB m)	(W)
30	70	DFT-S OFDM	BPSK	Inner_1RB Left	1	1	23.44	0.221	23.62	0.230	23.55	0.226	28.83	0.764
			QPSK		1	1	23.39	0.218	23.56	0.227	23.50	0.224		
			BPSK	Inner_1RB Right	1	187	23.18	0.208	23.73	0.236	23.48	0.223		
			QPSK		1	187	23.11	0.205	23.68	0.233	23.41	0.219		
SCS (kHz)	BW (MHz)	Modulation		RB allocation	RB Size	RB Offset	507204 (2 536.02 MHz)		518598 (2 592.99 MHz)		534996 (2 674.98 MHz)		E.I.R.P.	
							(dB m)	(W)	(dB m)	(W)	(dB m)	(W)	(dB m)	(W)
30	80	DFT-S OFDM	BPSK	Inner_1RB Left	1	1	23.41	0.219	23.67	0.233	23.66	0.232	28.79	0.757
			QPSK		1	1	23.35	0.216	23.63	0.231	23.59	0.229		
			BPSK	Inner_1RB Right	1	215	23.11	0.205	23.69	0.234	23.41	0.219		
			QPSK		1	215	23.06	0.202	23.62	0.230	23.33	0.215		
SCS (kHz)	BW (MHz)	Modulation		RB allocation	RB Size	RB Offset	508200 (2 541.00 MHz)		518598 (2 592.99 MHz)		534000 (2 670.00 MHz)		E.I.R.P.	
							(dB m)	(W)	(dB m)	(W)	(dB m)	(W)	(dB m)	(W)
30	90	DFT-S OFDM	BPSK	Inner_1RB Left	1	1	23.47	0.222	23.71	0.235	23.64	0.231	28.81	
			QPSK		1	1	23.45	0.221	23.63	0.231	23.62	0.230		
			BPSK	Inner_1RB Right	1	243	23.05	0.202	23.68	0.233	23.21	0.209		
			QPSK		1	243	22.97	0.198	23.62	0.230	23.14	0.206		
SCS (kHz)	BW (MHz)	Modulation		RB allocation	RB Size	RB Offset	509202 (2 546.01 MHz)		518598 (2 592.99 MHz)		532998 (2 664.99 MHz)		E.I.R.P.	
							(dB m)	(W)	(dB m)	(W)	(dB m)	(W)	(dB m)	(W)
30	100	DFT-S OFDM	BPSK	Inner_1RB Left	1	1	23.45	0.221	23.66	0.232	23.53	0.225	28.80	0.759
			QPSK		1	1	23.38	0.218	23.59	0.229	23.49	0.223		
			BPSK	Inner_1RB Right	1	271	23.03	0.201	23.70	0.234	23.25	0.211		
			QPSK		1	271	22.97	0.198	23.65	0.232	23.18	0.208		

71A-n66A														
Worst Ant. Gain						5.54 dB i								
Limit: 1W EIRP														
SCS (kHz)	BW (MHz)	Modulation		RB allocation	RB Size	RB Offset	342500 (1 712.5 MHz)		349000 (1 745.0 MHz)		355500 (1 777.5 MHz)		E.I.R.P.	
							(dB m)	(W)	(dB m)	(W)	(dB m)	(W)	(dB m)	(W)
30	5	DFT-S OFDM	BPSK	Inner_1RB Left	1	1	23.51	0.224	23.47	0.222	23.75	0.237	29.36	0.863
			QPSK	Inner_1RB Right	1	1	23.60	0.229	23.47	0.222	<u>23.82</u>	<u>0.241</u>		
			BPSK	Inner_1RB Left	1	23	23.52	0.225	23.48	0.223	23.73	0.236		
			QPSK	Inner_1RB Right	1	23	23.57	0.228	23.54	0.226	23.80	0.240		
SCS (kHz)	BW (MHz)	Modulation		RB allocation	RB Size	RB Offset	343000 (1 715.0 MHz)		349000 (1 745.0 MHz)		355000 (1 775.0 MHz)		E.I.R.P.	
							(dB m)	(W)	(dB m)	(W)	(dB m)	(W)	(dB m)	(W)
30	10	DFT-S OFDM	BPSK	Inner_1RB Left	1	1	23.57	0.228	23.38	0.218	<u>23.86</u>	<u>0.243</u>	29.40	0.871
			QPSK	Inner_1RB Right	1	1	23.62	0.230	23.35	0.216	23.84	0.242		
			BPSK	Inner_1RB Left	1	50	23.50	0.224	23.67	0.233	23.80	0.240		
			QPSK	Inner_1RB Right	1	50	23.54	0.226	23.65	0.232	23.81	0.240		
SCS (kHz)	BW (MHz)	Modulation		RB allocation	RB Size	RB Offset	343500 (1 717.5 MHz)		349000 (1 745.0 MHz)		354500 (1 772.5 MHz)		E.I.R.P.	
							(dB m)	(W)	(dB m)	(W)	(dB m)	(W)	(dB m)	(W)
30	15	DFT-S OFDM	BPSK	Inner_1RB Left	1	1	23.43	0.220	23.21	0.209	23.80	0.240	29.38	0.867
			QPSK	Inner_1RB Right	1	1	23.42	0.220	23.17	0.207	23.82	0.241		
			BPSK	Inner_1RB Left	1	77	23.52	0.225	23.20	0.209	23.76	0.238		
			QPSK	Inner_1RB Right	1	77	23.50	0.224	23.17	0.207	<u>23.84</u>	<u>0.242</u>		
SCS (kHz)	BW (MHz)	Modulation		RB allocation	RB Size	RB Offset	344000 (1 720.0 MHz)		349000 (1 745.0 MHz)		354000 (1 770.0 MHz)		E.I.R.P.	
							(dB m)	(W)	(dB m)	(W)	(dB m)	(W)	(dB m)	(W)
30	20	DFT-S OFDM	BPSK	Inner_1RB Left	1	1	23.65	0.232	23.63	0.231	23.44	0.221	29.35	0.861
			QPSK	Inner_1RB Right	1	1	23.69	0.234	23.65	0.232	23.41	0.219		
			BPSK	Inner_1RB Left	1	104	23.53	0.225	23.69	0.234	<u>23.81</u>	<u>0.240</u>		
			QPSK	Inner_1RB Right	1	104	23.60	0.229	23.71	0.235	23.77	0.238		
SCS (kHz)	BW (MHz)	Modulation		RB allocation	RB Size	RB Offset	346000 (1 730.0 MHz)		349000 (1 745.0 MHz)		352000 (1 760.0 MHz)		E.I.R.P.	
							(dB m)	(W)	(dB m)	(W)	(dB m)	(W)	(dB m)	(W)
30	40	DFT-S OFDM	BPSK	Inner_1RB Left	1	1	23.60	0.229	23.54	0.226	23.68	0.233	29.44	0.879
			QPSK	Inner_1RB Right	1	1	23.63	0.231	23.53	0.225	23.69	0.234		
			BPSK	Inner_1RB Left	1	214	23.54	0.226	23.80	0.240	<u>23.90</u>	<u>0.245</u>		
			QPSK	Inner_1RB Right	1	214	23.56	0.227	23.79	0.239	23.89	0.245		

4. Occupied Bandwidth

4.1. Limit

CFR 47, Section FCC §2.1049

4.2. Test Procedure

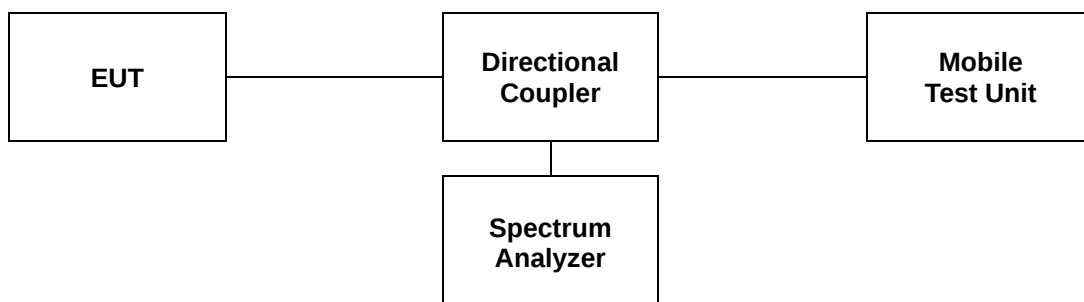
The test follows section 6.7 of RSS-Gen Issue 5.

The following conditions shall be observed for measuring the occupied bandwidth and x dB bandwidth:

- The transmitter shall be operated at its maximum carrier power measured under normal test conditions.
- The span of the spectrum analyzer shall be set large enough to capture all products of the modulation process, including the emission skirts, around the carrier frequency, but small enough to avoid having other emissions (e.g. on adjacent channels) within the span.
- The detector of the spectrum analyzer shall be set to "Sample". However, a peak, or peak hold, may be used in place of the sampling detector since this usually produces a wider bandwidth than the actual bandwidth (worst-case measurement). Use of a peak hold (or "Max Hold") may be necessary to determine the occupied / x dB bandwidth if the device is not transmitting continuously.
- The resolution bandwidth (RBW) shall be in the range of 1 % to 5 % of the actual occupied / x dB bandwidth and the video bandwidth (VBW) shall not be smaller than three times the RBW value. Video averaging is not permitted.

Note: It may be necessary to repeat the measurement a few times until the RBW and VBW are in compliance with the above requirement.

For the 99 % emission bandwidth, the trace data points are recovered and directly summed in linear power level terms. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5 % of the total is reached, and that frequency recorded. The process is repeated for the highest frequency data points (starting at the highest frequency, at the right side of the span, and going down in frequency). This frequency is then recorded. The difference between the two recorded frequencies is the occupied bandwidth (or the 99 % emission bandwidth).



4.3 Test Results

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

SISO

Band	SCS (kHz)	BW (MHz)	Frequency (MHz)	Occupied Bandwidth (MHz)				
				DFT-S-OFDM BPSK	DFT-S-OFDM QPSK	DFT-S-OFDM 16QAM	CP-OFDM QPSK	CP-OFDM 16QAM
7	15	25	2 512.5	22.827	22.827	22.827	23.726	23.676
			2 535.0	22.777	22.827	22.877	23.776	23.776
			2 557.5	22.877	22.877	22.877	23.726	23.726
		30	2 515.0	28.412	28.472	28.531	28.472	28.531
			2 535.0	28.531	28.591	28.531	28.531	28.591
			2 555.0	28.531	28.472	28.531	28.531	28.531
		40	2 520.0	38.442	38.601	38.362	38.362	38.442
			2 535.0	38.521	38.521	38.601	38.442	38.442
			2 550.0	38.442	38.442	38.521	38.521	38.442
Band	SCS (kHz)	BW (MHz)	Frequency (MHz)	Occupied Bandwidth (MHz)				
				DFT-S-OFDM BPSK	DFT-S-OFDM QPSK	DFT-S-OFDM 16QAM	CP-OFDM QPSK	CP-OFDM 16QAM
25	15	25	1 862.5	22.827	22.827	22.877	23.726	23.726
			1 882.5	22.827	22.877	22.827	23.726	23.776
			1 902.5	22.877	22.827	22.877	23.726	23.726
		30	1 865.0	28.531	28.472	28.472	28.531	28.591
			1 882.5	28.531	28.591	28.531	28.531	28.531
			1 900.0	28.472	28.472	28.531	28.472	28.531
		40	1 870.0	38.442	38.442	38.442	38.442	38.601
			1 882.5	38.442	38.521	39.241	38.442	38.442
			1 895.0	38.362	38.442	38.442	38.442	38.442
Band	SCS (kHz)	BW (MHz)	Frequency (MHz)	Occupied Bandwidth (MHz)				
				DFT-S-OFDM BPSK	DFT-S-OFDM QPSK	DFT-S-OFDM 16QAM	CP-OFDM QPSK	CP-OFDM 16QAM
41	30	70	2 531.01	64.196	64.196	64.056	67.413	67.552
			2 592.99	64.336	64.336	64.196	67.413	67.413
			2 655.00	64.336	63.916	64.196	67.273	67.273

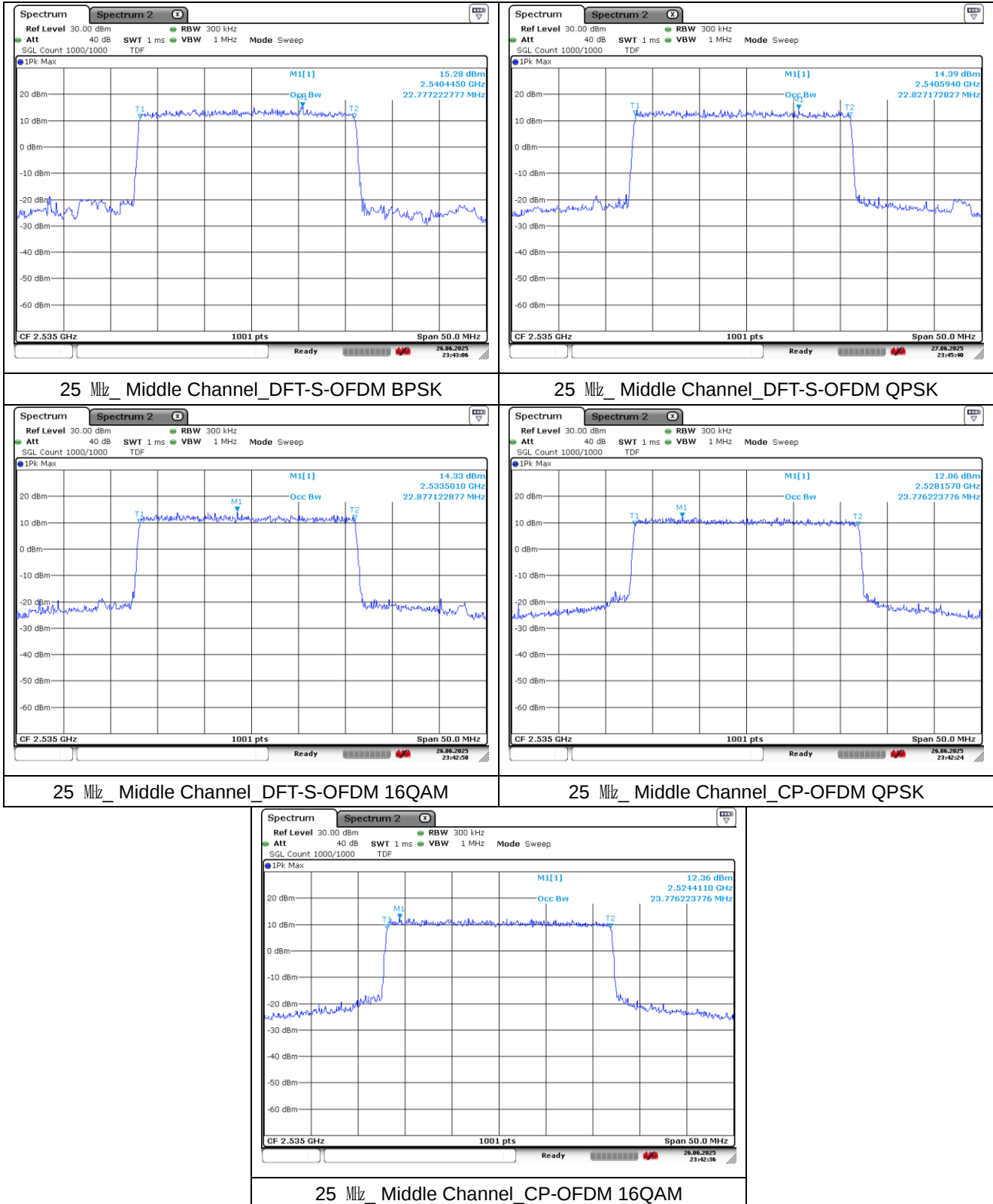
MIMO

Band	SCS (kHz)	BW (MHz)	Frequency (MHz)	Occupied Bandwidth (MHz)			
				Port 1		Port 2	
				CP-OFDM QPSK	CP-OFDM 16QAM	CP-OFDM QPSK	CP-OFDM 16QAM
41	30	70	2 531.01	67.273	67.133	67.273	67.413
			2 592.99	67.413	67.273	67.413	67.413
			2 655.00	67.413	67.413	67.273	67.273

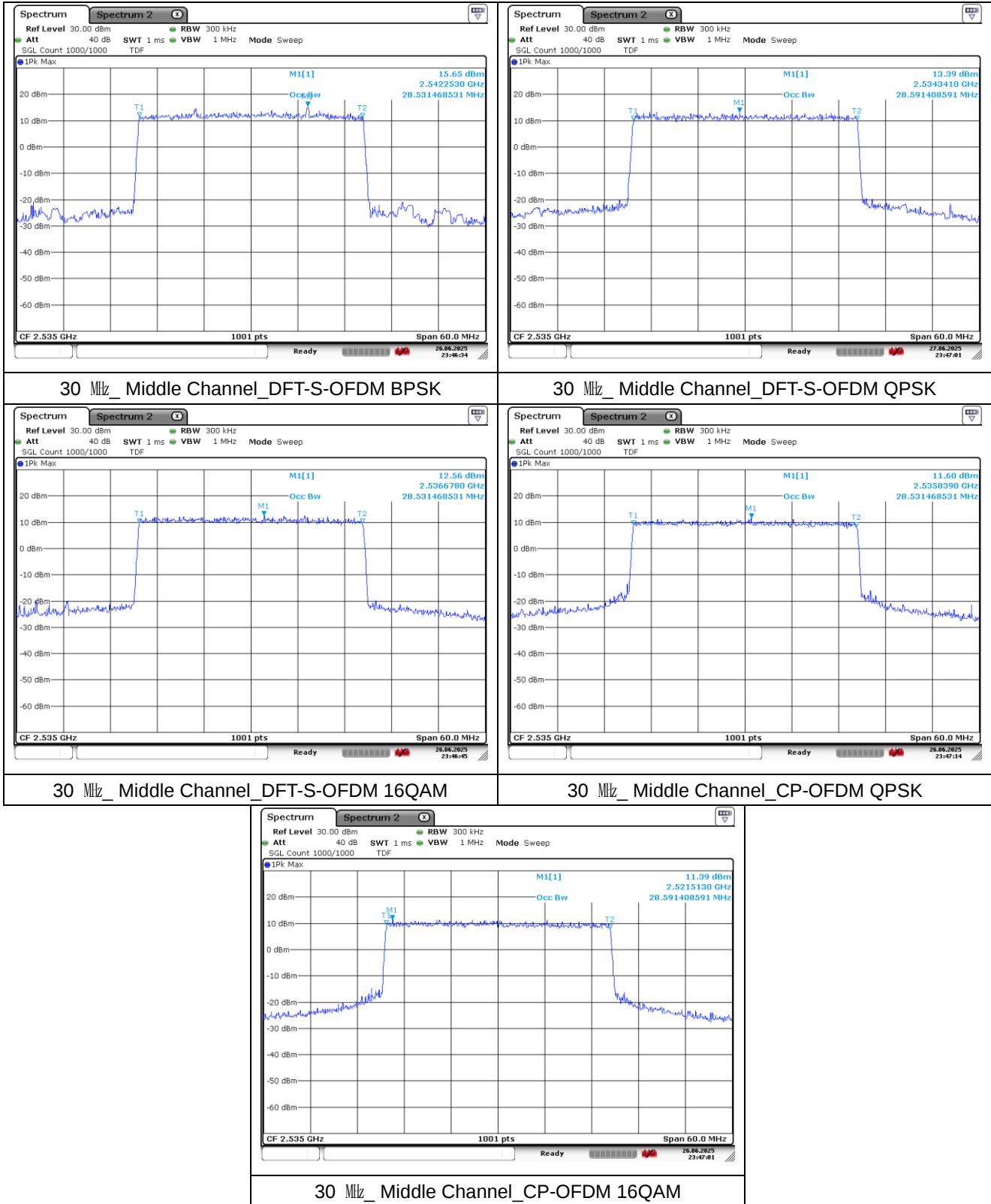
- Test plots

SISO

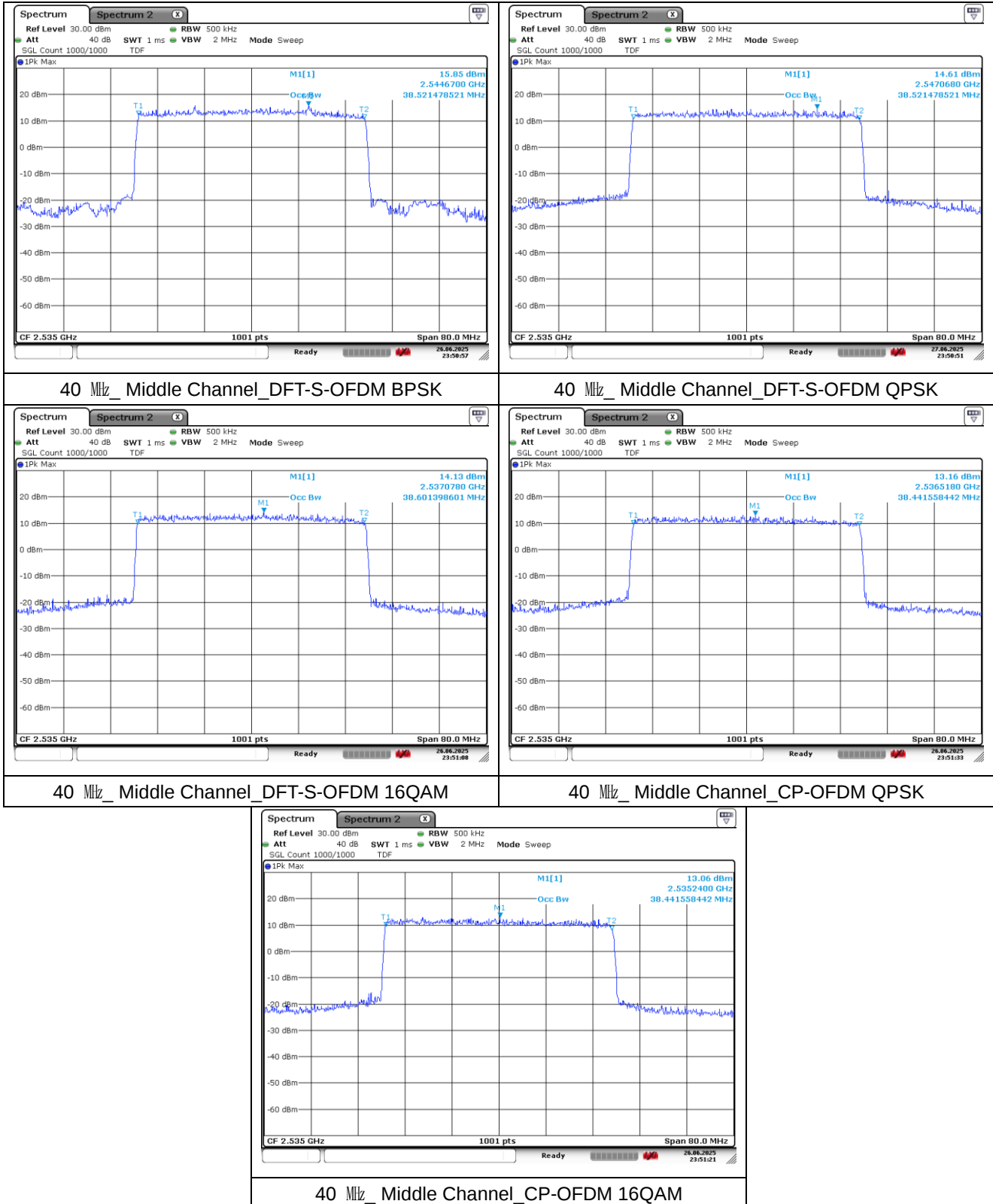
NR band 7



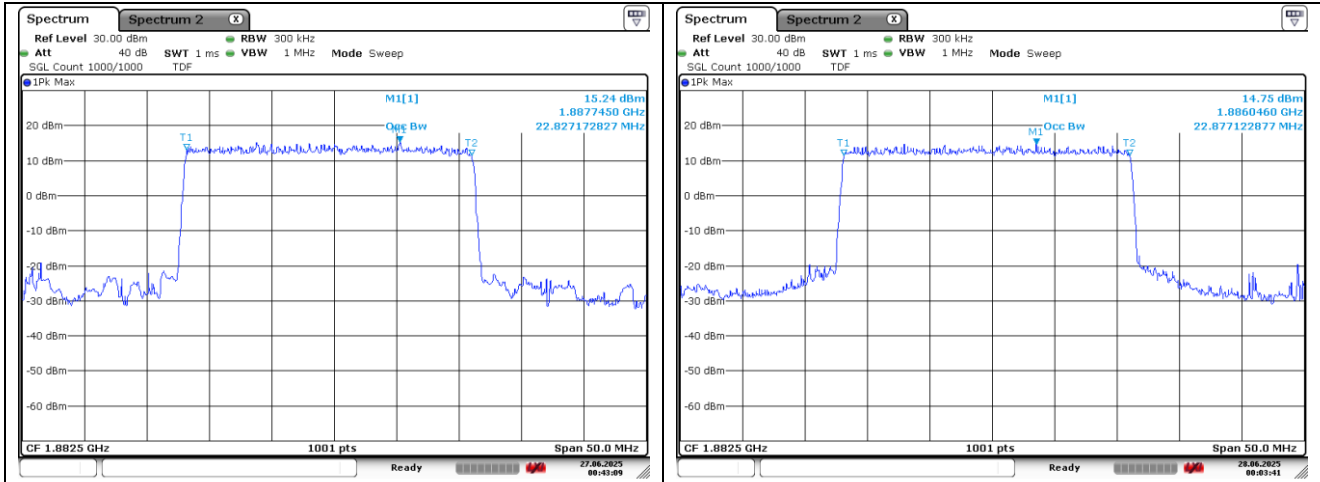
NR band 7



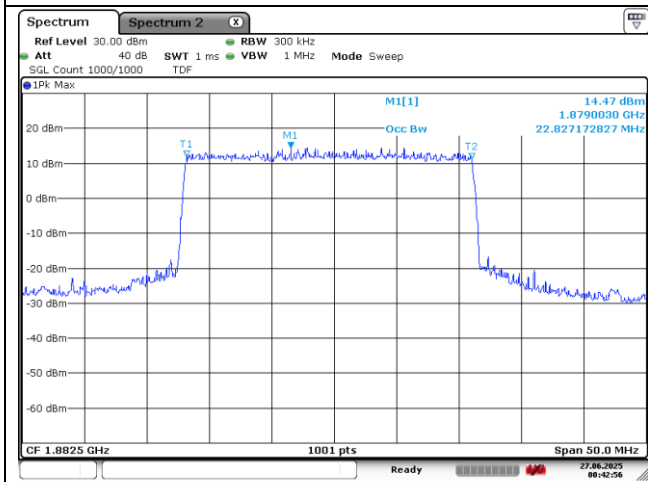
NR band 7



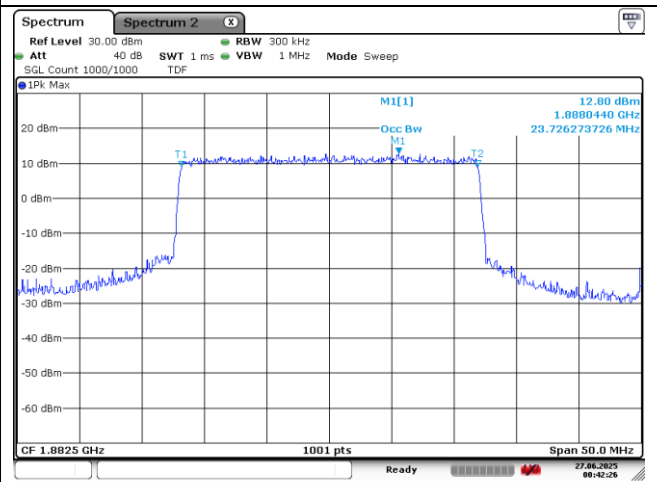
NR band 25



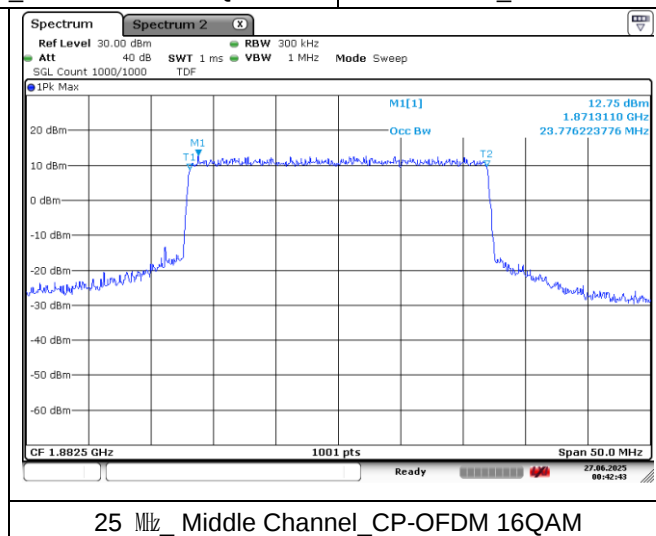
25 MHz_Middle Channel_DFT-S-OFDM BPSK



25 MHz_Middle Channel_DFT-S-OFDM QPSK



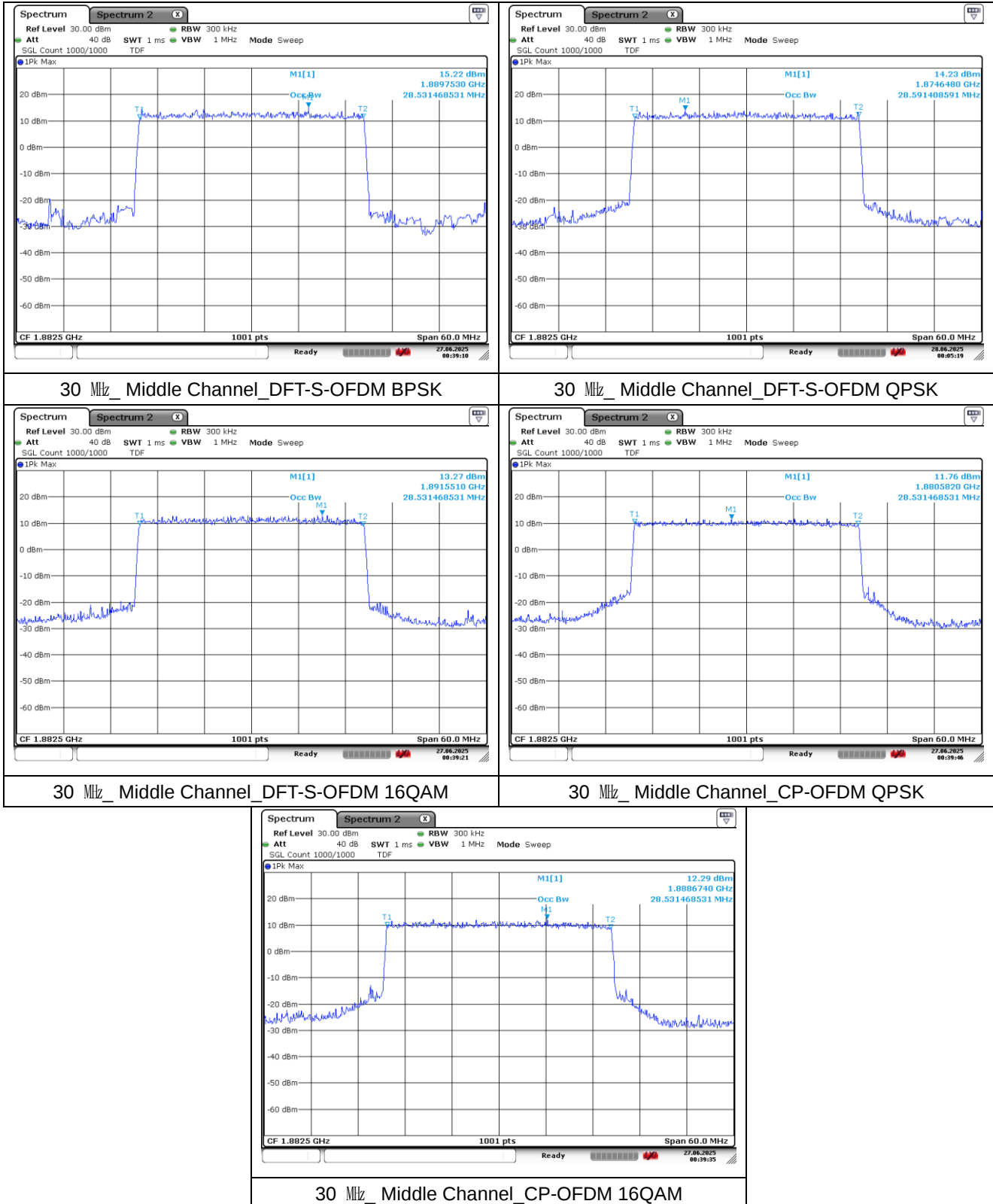
25 MHz_Middle Channel_DFT-S-OFDM 16QAM



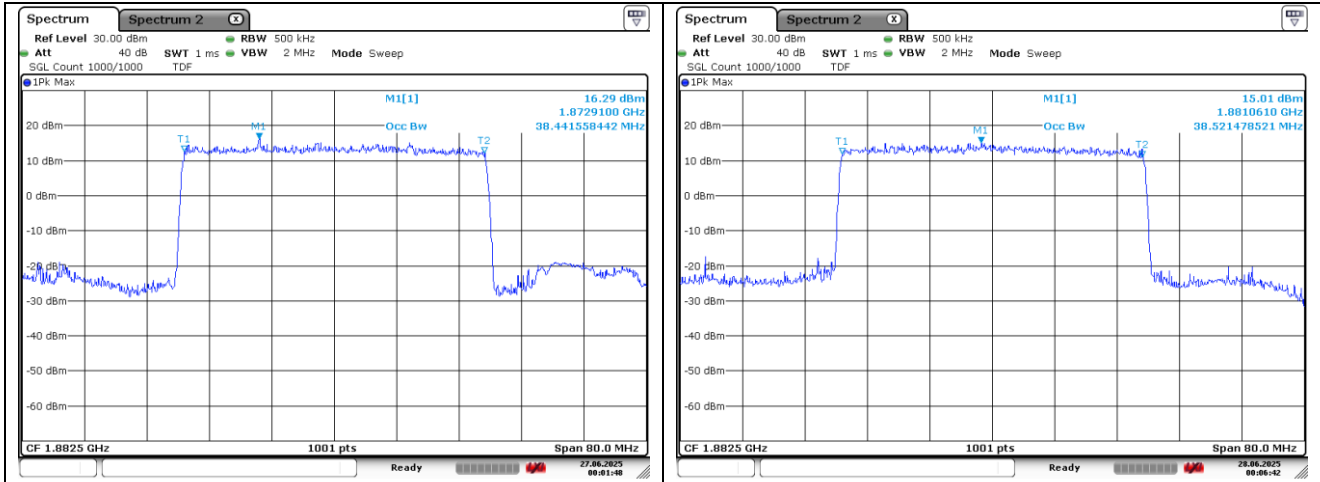
25 MHz_Middle Channel_CP-OFDM QPSK

25 MHz_Middle Channel_CP-OFDM 16QAM

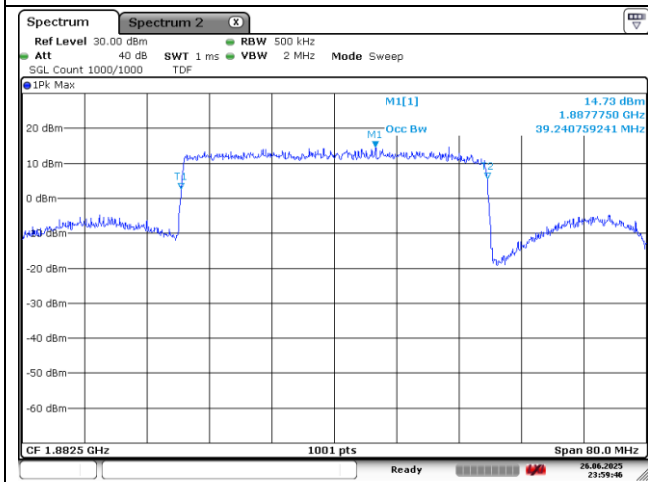
NR band 25



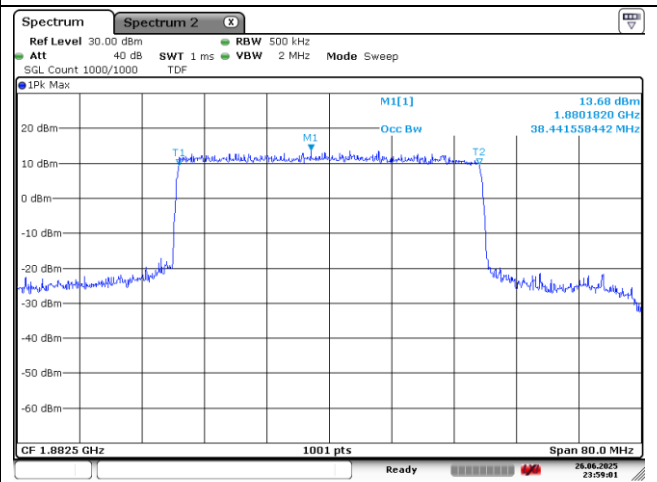
NR band 25



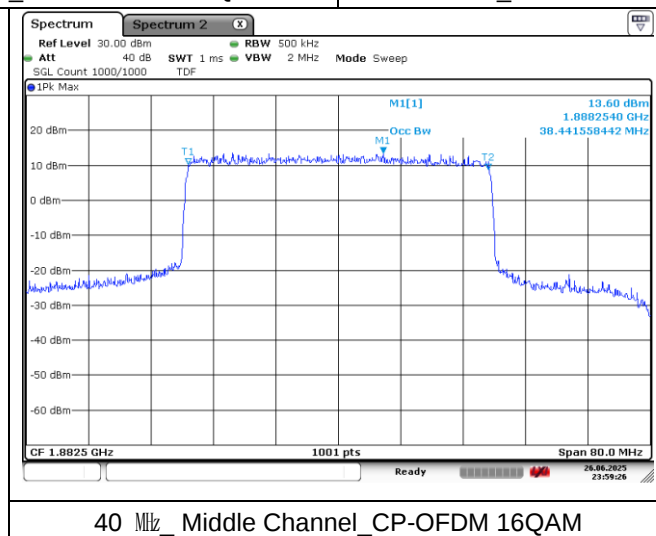
40 MHz_Middle Channel_DFT-S-OFDM BPSK



40 MHz_Middle Channel_DFT-S-OFDM QPSK



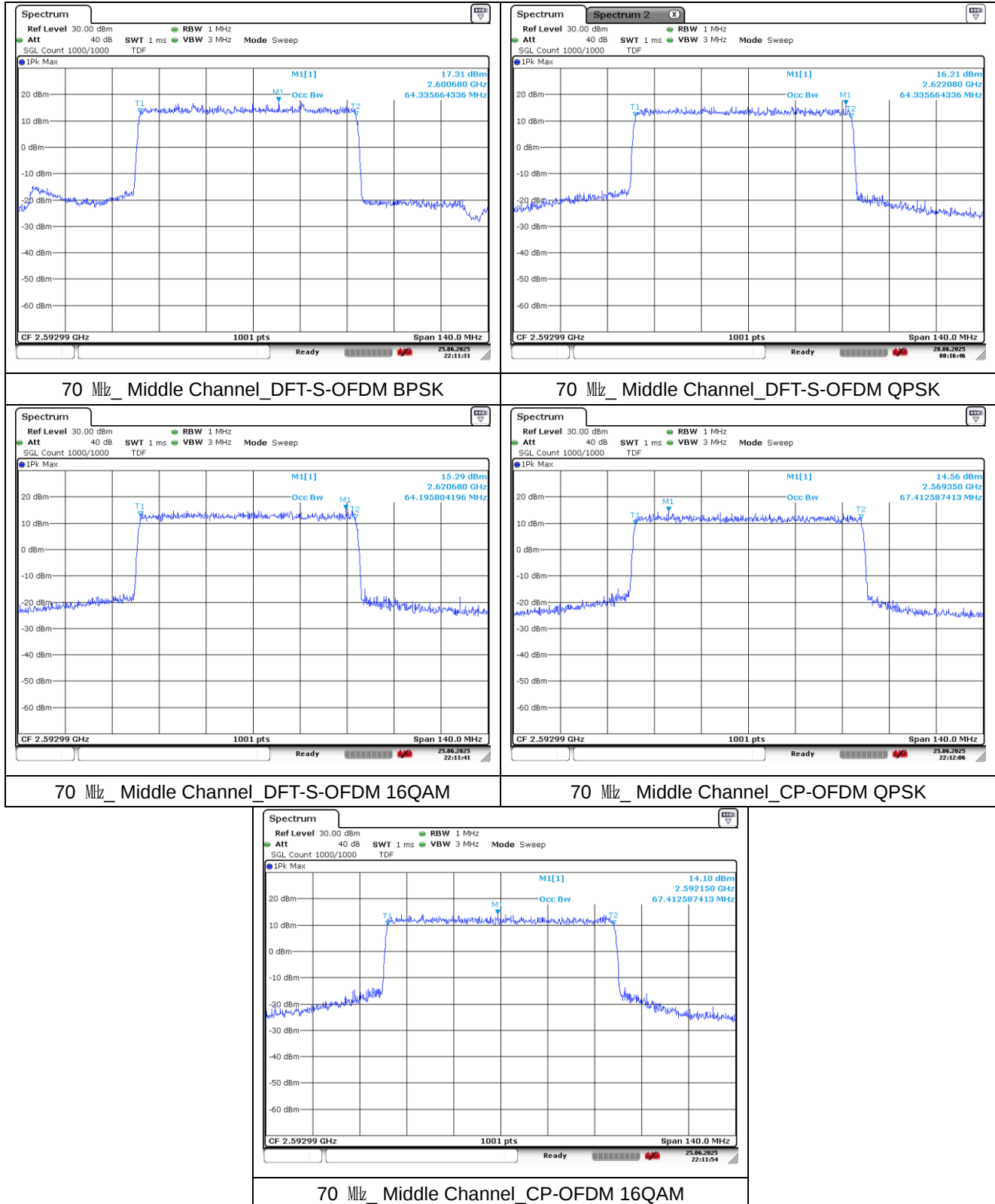
40 MHz_Middle Channel_DFT-S-OFDM 16QAM



40 MHz_Middle Channel_CP-OFDM QPSK

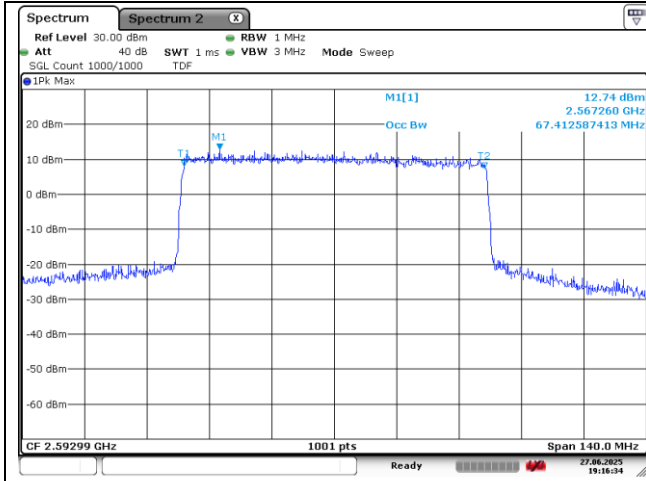
40 MHz_Middle Channel_CP-OFDM 16QAM

NR band 41

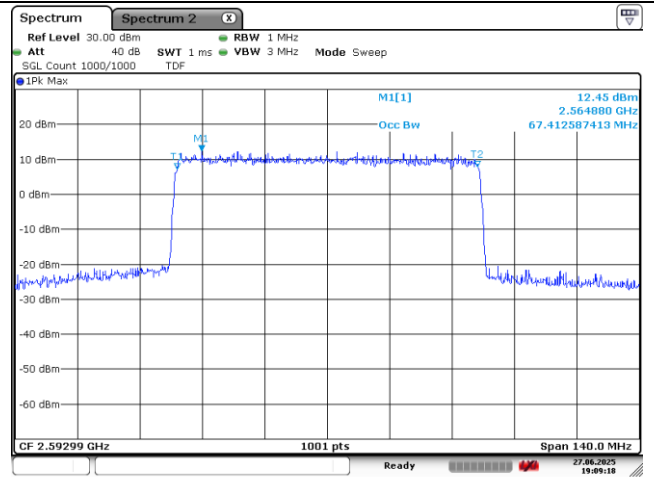


MIMO

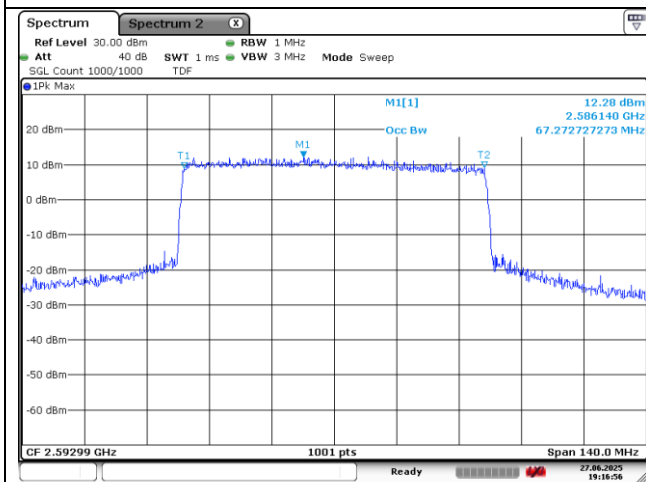
NR band 41



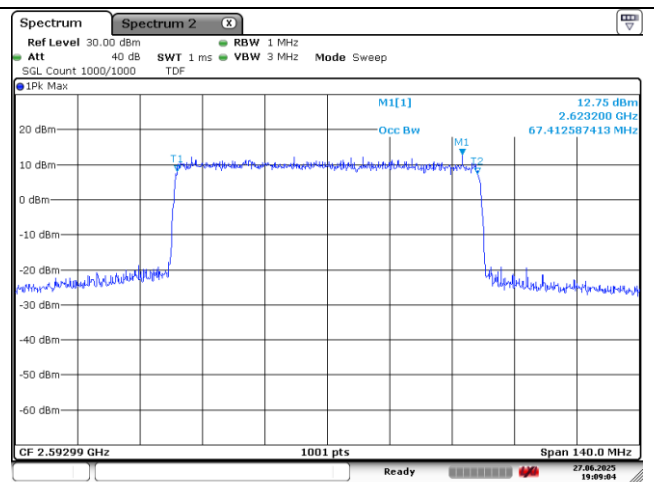
70 MHz_ Middle Channel_CP-OFDM QPSK_Port 1



70 MHz_ Middle Channel_CP-OFDM QPSK_Port 2



70 MHz_ Middle Channel_CP-OFDM 16QAM_Port 1



70 MHz_ Middle Channel_CP-OFDM 16QAM_Port 2

5. Peak-Average Ratio

5.1. Limit

- §24.232(d), power measurements for transmissions by stations authorized under this section may be made either in accordance with a Commission-approved average power technique or in compliance with paragraph (e) of this section. In both instances, equipment employed must be authorized in accordance with the provisions of §24.51. In measuring transmissions in this band using an average power technique, the peak-to-average ratio (PAR) of the transmission may not exceed 13 dB.

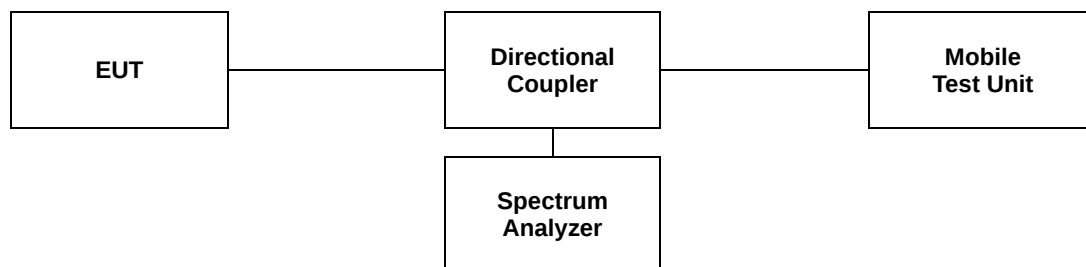
- §27.50(d)(5), power measurements for transmissions by stations authorized under this section may be made either in accordance with a Commission-approved average power technique or in compliance with paragraph (d)(6) of this section. In measuring transmissions in this band using an average power technique, the peak-to-average ratio (PAR) of the transmission may not exceed 13 dB.

5.2. Test Procedure

The test follows section 5.2.3.4 of ANSI C63.26-2015.

See instrumentation-specific application literature for further guidance regarding use of the CCDF capability. The following guidelines are offered for performing a CCDF measurement.

- a. Set resolution/measurement bandwidth $\geq$ OBW or specified reference bandwidth.
- b. Set the number of counts to a value that stabilizes the measured CCDF curve.
- c. Set the measurement interval as follows:
 - 1) For continuous transmissions, set to greater of $[10 \times (\text{number of points in sweep}) \times (\text{transmission symbol period})]$ or 1 ms.
 - 2) For burst transmissions, employ an external trigger that is synchronized with the EUT burst timing sequence, or use the internal burst trigger with a trigger level that allows the burst to stabilize. Set the measurement interval to a time that is less than or equal to the burst duration.
 - 3) If there are several carriers in a single antenna port, the peak power shall be determined for each individual carrier (by disabling the other carriers while measuring the required carrier) and the total peak power calculated from the sum of the individual carrier peak powers.
- d. Record the maximum PAPR level associated with a probability of 0.1 %.
- e. The peak power level is calculated from the sum of the PAPR value from step d) to the measured average power.



5.3 Test Results

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

SISO

Band	SCS (kHz)	BW (MHz)	Frequency (MHz)	PAR (dB)								
				DFT-S-OFDM					CP-OFDM			
				BPSK	QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
7	15	25	2 512.5	4.12	4.64	5.52	6.10	6.86	6.82	6.84	7.16	8.80
			2 535.0	4.12	4.70	5.56	6.08	6.88	6.66	6.84	7.20	8.44
			2 557.5	4.18	4.70	5.64	6.10	6.66	6.74	6.90	7.32	8.56
		30	2 515.0	3.68	4.54	5.56	5.98	6.66	6.92	6.94	7.18	8.68
			2 535.0	3.90	4.66	5.66	6.10	6.82	6.70	6.98	7.34	8.66
			2 555.0	4.06	4.72	5.70	6.18	6.94	6.94	7.06	7.32	8.60
		40	2 520.0	4.06	4.66	5.62	6.04	6.80	6.82	7.02	7.42	8.52
			2 535.0	4.10	4.68	5.64	6.06	6.88	6.74	6.92	7.32	8.62
			2 550.0	4.10	4.66	5.62	6.08	6.54	6.88	6.96	7.48	8.58
Band	SCS (kHz)	BW (MHz)	Frequency (MHz)	PAR (dB)								
				DFT-S-OFDM					CP-OFDM			
				BPSK	QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
25	15	25	1 862.5	3.98	4.52	5.28	5.74	6.58	6.42	6.70	7.00	8.66
			1 882.5	4.00	4.54	5.40	5.92	6.40	6.46	6.58	6.96	8.46
			1 902.5	4.14	4.72	5.60	5.98	6.54	6.66	6.82	7.12	8.34
		30	1 865.0	3.72	4.44	5.36	5.60	5.76	6.26	6.30	6.96	8.64
			1 882.5	3.76	4.48	5.46	5.72	6.56	6.58	6.60	6.94	8.30
			1 900.0	3.94	4.80	5.58	6.02	6.58	6.82	6.84	7.14	8.40
		40	1 870.0	3.94	4.52	5.54	5.94	6.92	6.44	6.66	6.86	8.56
			1 882.5	4.16	4.62	5.36	5.86	6.46	6.52	6.66	7.08	8.70
			1 895.0	4.28	4.92	5.76	6.08	6.40	6.90	6.92	7.24	8.44
Band	SCS (kHz)	BW (MHz)	Frequency (MHz)	PAR (dB)								
				DFT-S-OFDM					CP-OFDM			
				BPSK	QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
41	30	70	2 531.01	4.70	5.18	6.02	6.44	6.82	7.12	7.26	7.62	8.70
			2 592.99	4.58	5.12	6.08	6.64	7.04	7.08	7.24	7.72	8.70
			2 655.00	4.32	4.86	5.84	6.32	6.70	6.94	7.10	7.54	8.80

MIMO

Band	SCS (kHz)	BW (MHz)	Frequency (MHz)	Occupied Bandwidth (MHz)							
				Port 1				Port 2			
				QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
41	30	70	2 531.01	8.26	8.38	8.50	8.70	8.66	8.60	8.70	8.64
			2 592.99	7.16	7.40	8.04	8.72	8.52	8.50	8.54	8.66
			2 655.00	7.38	7.64	7.96	8.90	8.44	8.44	8.40	8.66

- Test plots

SISO

NR band 7



25 MHz Middle Channel - DFT-S-OFDM BPSK



25 MHz Middle Channel - DFT-S-OFDM QPSK



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



25 MHz Middle Channel - DFT-S-OFDM 64QAM



25 MHz Middle Channel - DFT-S-OFDM 256QAM