

TEST REPORT

Report Number: 15496277-E27V2

Applicant : APPLE, INC
1 APPLE WAY
CUPERTINO, CA 95014, U.S.A.

Model : A3258

Brand : APPLE

FCC ID : BCG-E8947A

IC : 579C-E8947A

EUT Description : SMARTPHONE

Test Standard(s) : FCC 47 CFR PART 2, PART 27
ISED RSS-GEN ISSUE 5 + A1 + A2, RSS-139 ISSUE 4

Date Of Issue:
2025-08-19

Prepared by:
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Revision History

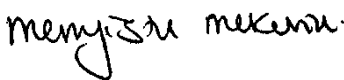
Rev.	Issue Date	Revisions	Revised By
V1	2025-08-01	Initial Review	--
V2	2025-08-19	TCB Feedback Updated Section 6.5	Mengistu Mekuria and Matthew Wu

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1. ATTESTATION OF TEST RESULTS

Applicant Name and Address	APPLE, INC 1 APPLE WAY CUPERTINO, CA 95014, U.S.A.	
Model	A3258	
Brand	APPLE	
FCC ID	BCG-E8947A	
IC	579C-E8947A	
EUT Description	SMARTPHONE	
Serial Number	RADIATED: DQMWH1905G, GQQ7TY7JLY, J46VHKX6H CONDUCTED: J6HHCW0001W0000WEZ, J6HHG2000FA0000WEZ, J6HHH50000V0000WEZ, J6HHCZ0000FP0000WEZ	
Sample Receipt Date	2024-11-21	
Date Tested	2024-11-21 to 2025-07-05	
Applicable Standards	FCC 47 CFR PART 2, PART 27 ISED RSS-GEN ISSUE 5 + A1 + A2, RSS-139 ISSUE 4	
Test Results	COMPLIES	
UL Verification Services Inc. tested the above equipment in accordance with the requirements set forth in the above standards. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report. The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. It is the manufacturer's responsibility to assure that additional production units of this model are manufactured with identical electrical and mechanical components. All samples tested were in good operating condition throughout the entire test program. Measurement Uncertainties are published for informational purposes only and were not taken into account unless noted otherwise. This document may not be altered or revised in any way unless done so by UL Verification Services Inc. and all revisions are duly noted in the revisions section. Any alteration of this document not carried out by UL Verification Services Inc. will constitute fraud and shall nullify the document.		
		
Mengistu Mekuria Staff Engineer UL Verification Services Inc.	Tewodros Woldemichael Laboratory Engineer UL Verification Services Inc.	Michael Vang Laboratory Engineer UL Verification Services Inc.

2. SUMMARY OF TEST RESULTS

This report contains data provided by the customer which can impact the validity of results. UL Verification Services Inc. is only responsible for correctly integrating customer-provided data with measurements performed by UL Verification Services Inc.

Below is a list of the data provided by the customer:

1. Antenna gain and type (see section 6.4)

Requirement Description	Requirement Clause Number (FCC)	Requirement Clause Number (ISED)	Result	Remarks
Equivalent Isotropic Radiated Power	27.50 (d) (4)	RSS139§5.5	Complies	
Occupied Bandwidth	2.1049	RSS-GEN§6.7, RSS139	Complies	
Band Edge and Emission Mask	2.1051, 27.53 (h)	RSS139§5.6	Complies	
Out of Band Emissions	2.1051, 27.53 (h)	RSS139§5.6	Complies	
Frequency Stability	2.1055, 27.54	RSS139§5.4	Complies	
Peak-to-Average Ratio	27.50 (d) (5)	RSS139§5.5	Complies	
Field Strength of Spurious Radiation	2.1051, 27.53 (h)	RSS139§5.6	Complies	

3. TEST METHODOLOGY

The tests documented in this report were performed in accordance with the following.

FCC published lists of [measurement procedures](#) for compliance testing.

ISED published lists of [normative test standards and acceptable alternatives procedures](#).

- ANSI C63.26:2015
- ANSI/TIA-603-E (2016)
- FCC 47 CFR Part 2, Part 27
- [FCC KDB 971168 D01](#): Power Meas License Digital Systems (ISED acceptable alternative procedure)
- [FCC KDB 971168 D02](#): Misc Rev Approv License Devices
- [FCC KDB 412172 D01](#): Determining ERP and EIRP
- ISED RSS-Gen Issue 5 + A1 + A2, RSS-139 Issue 4

4. FACILITIES AND ACCREDITATION

UL Verification Services Inc. is accredited by A2LA, certification #0751.05, for all testing performed within the scope of this report. Testing was performed at the locations noted below.

	Address	ISED CABID	ISED Company Number	FCC Registration
☒	Building 1: 47173 Benicia Street, Fremont, CA 94538, USA	US0104	2324A	550739
☒	Building 2: 47266 Benicia Street, Fremont, CA 94538, USA			
☐	Building 3: 843 Auburn Court, Fremont, CA 94538, USA			
☒	Building 4: 47658 Kato Rd, Fremont, CA 94538, USA			
☒	Building 5: 47670 Kato Rd, Fremont, CA 94538, USA			

5. DECISION RULES AND MEASUREMENT UNCERTAINTY

5.1. METROLOGICAL TRACEABILITY

All test and measuring equipment utilized to perform the tests documented in this report are calibrated on a regular basis, with a maximum time between calibrations of one year or the manufacturers' recommendation, whichever is less, and where applicable is traceable to recognized national standards.

5.2. DECISION RULES

The Decision Rule is based on Simple Acceptance in accordance with ISO Guide 98-4:2012 Clause 8.2. (Measurement uncertainty is not taken into account when stating conformity with a specified requirement.)

5.3. MEASUREMENT UNCERTAINTY

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

PARAMETER	U _{Lab}
Conducted Antenna Port Emission Measurement	1.940 dB
Power Spectral Density	2.466 dB
Time Domain Measurements Using SA	3.39 %
RF Power Measurement Direct Method Using Power Meter	0.450 dB Ave. 1.300 dB Peak
Radio Frequency (Spectrum Analyzer)	141.16 Hz
Occupied Bandwidth	1.22%
Worst Case Conducted Disturbance, 9KHz to 0.15 MHz	3.78 dB
Worst Case Conducted Disturbance, 0.15 to 30 MHz	3.40 dB
Worst Case Radiated Disturbance, 9KHz to 30 MHz	2.87 dB
Worst Case Radiated Disturbance, 30 to 1000 MHz	6.01 dB
Worst Case Radiated Disturbance, 1000 to 18000 MHz	4.73 dB
Worst Case Radiated Disturbance, 18000 to 26000 MHz	4.51 dB
Worst Case Radiated Disturbance, 26000 to 40000 MHz	5.29 dB

Uncertainty figures are valid to a confidence level of 95%.

5.4. SAMPLE CALCULATION

RADIATED EMISSIONS

Where relevant, the following sample calculation is provided:

Field Strength (dBuV/m) = Measured Voltage (dBuV) + Antenna Factor (dB/m) + Cable Loss (dB) – Preamp Gain (dB)
 $36.5 \text{ dBuV} + 18.7 \text{ dB/m} + 0.6 \text{ dB} - 26.9 \text{ dB} = 28.9 \text{ dBuV/m}$

6. EQUIPMENT UNDER TEST

6.1. DESCRIPTION OF EUT

The Apple iPhone is a smartphone with cellular GSM, GPRS, EGPRS, WCDMA, LTE, 5G NR1, 5G NR2, IEEE 802.11a/b/g/n/ac/ax/be, Bluetooth (BT), Ultra-Wideband (UWB), Global Positioning System (GPS), Near-Field Communication (NFC), Narrow-Band (NB) UNII, 802.15.4, 802.15.4ab-Narrow Band (NB), Wireless Power Transfer (WPT) and Mobile Satellite Service (MSS) technologies. The rechargeable battery is not user accessible. This device is not user-serviceable and requires special tools to disassemble.

6.2. MAXIMUM OUTPUT POWER

EIRP/ERP TEST PROCEDURE

ANSI C63.26:2015
KDB 971168 D01 Section 5.6

$$\text{ERP/EIRP} = \text{PMeas} + \text{GT} - \text{LC}$$

where: ERP/EIRP = effective or equivalent radiated power, respectively (expressed in the same units as PMeas, typically dBW or dBm);

PMeas = measured transmitter output power or PSD, in dBm or dBW;

GT = gain of the transmitting antenna, in dBd (ERP) or dBi (EIRP);

LC = signal attenuation in the connecting cable between the transmitter and antenna, in dB.

For devices utilizing multiple antennas, KDB 662911 provides guidance for determining the effective array transmit antenna gain term to be used in the above equation.

EUT includes different power levels for head use configuration and body use configuration and the below tables contain the highest of all configurations average conducted and ERP/EIRP output powers as follows:

LTE BAND 66

Part 27 / RSS 139									
EIRP Limit (W)		1.00							
Antenna Gain (dBi) (Ant 4)		-0.10							
Bandwidth (MHz)	Modulation	Low Frequency (MHz)	Upper Frequency (MHz)	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Average (W)	99% BW (MHz)	99% BW (kHz)	Emission Designator
1.4	QPSK	1710.7	1779.3	25.70	25.60	0.363	1.105	1105	1M11G7W
	16QAM			24.70	24.60	0.288	1.116	1116	1M12D7W
3.0	QPSK	1711.5	1778.5	25.70	25.60	0.363	2.707	2707	2M71G7W
	16QAM			24.70	24.60	0.288	2.714	2714	2M71D7W
5.0	QPSK	1712.5	1777.5	25.70	25.60	0.363	4.513	4513	4M51G7W
	16QAM			24.68	24.58	0.287	4.520	4520	4M52D7W
10.0	QPSK	1715.0	1775.0	25.70	25.60	0.363	8.999	8999	9M00G7W
	16QAM			24.67	24.57	0.286	9.015	9015	9M02D7W
15.0	QPSK	1717.5	1772.5	25.70	25.60	0.363	13.483	13483	13M5G7W
	16QAM			24.70	24.60	0.288	13.519	13519	13M5D7W
20.0	QPSK	1720.0	1770.0	25.70	25.60	0.363	17.959	17959	18M0G7W
	16QAM			24.70	24.60	0.288	17.991	17991	18M0D7W

5G NR n66

Part 27/ RSS 139									
EIRP Limit (W)		1.00							
Antenna Gain (dBi) (Ant 4)		-0.10							
Bandwidth (MHz)	Modulation	Low Frequency (MHz)	Upper Frequency (MHz)	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Average (W)	99% BW (MHz)	99% BW (kHz)	Emission Designator
5.0	BPSK	1712.5	1777.5	25.70	25.60	0.363	4.485	4485	4M49G7W
	QPSK			25.67	25.57	0.361	4.486	4486	4M49G7W
	16QAM			24.70	24.60	0.288	4.480	4480	4M48D7W
10.0	BPSK	1715.0	1775.0	25.70	25.60	0.363	8.954	8954	8M95G7W
	QPSK			25.69	25.59	0.362	8.952	8952	8M95G7W
	16QAM			24.68	24.58	0.287	8.963	8963	8M96D7W
15.0	BPSK	1717.5	1772.5	25.70	25.60	0.363	13.403	13403	13M4G7W
	QPSK			25.62	25.52	0.356	13.465	13465	13M5G7W
	16QAM			24.70	24.60	0.288	13.391	13391	13M4D7W
20.0	BPSK	1720.0	1770.0	25.68	25.58	0.361	17.877	17877	17M9G7W
	QPSK			25.67	25.57	0.361	17.910	17910	17M9G7W
	16QAM			24.70	24.60	0.288	17.905	17905	17M9D7W
25.0	BPSK	1722.5	1767.5	25.70	25.60	0.363	22.906	22906	22M9G7W
	QPSK			25.60	25.50	0.355	22.872	22872	22M9G7W
	16QAM			24.70	24.60	0.288	22.963	22963	23M0D7W
30.0	BPSK	1725.0	1765.0	25.70	25.60	0.363	28.609	28609	28M6G7W
	QPSK			25.70	25.60	0.363	28.557	28557	28M6G7W
	16QAM			24.70	24.60	0.288	28.642	28642	28M6D7W
35.0	BPSK	1727.5	1762.5	25.70	25.60	0.363	32.253	32253	32M3G7W
	QPSK			25.65	25.55	0.359	32.234	32234	32M2G7W
	16QAM			24.70	24.60	0.288	32.169	32169	32M2D7W
40.0	BPSK	1730.0	1760.0	25.70	25.60	0.363	38.669	38669	38M7G7W
	QPSK			25.51	25.41	0.348	38.590	38590	38M6G7W
	16QAM			24.69	24.59	0.288	38.547	38547	38M5D7W
45.0	BPSK	1732.5	1757.5	25.70	25.60	0.363	43.039	43039	43M0G7W
	QPSK			25.69	25.59	0.362	42.898	42898	42M9G7W
	16QAM			24.69	24.59	0.288	42.902	42902	42M9D7W

6.3. SOFTWARE AND FIRMWARE

The EUT firmware installed during testing was version 0.8.0.0.

6.4. MAXIMUM ANTENNA GAIN AND MAXIMUM ALLOWED OUTPUT POWER

The IFA antenna(s) gain/ allowed output power, as provided by the manufacturer' are as follows:

Bands	Frequency Range (MHz)	Antenna	Gain (dBi)	Max Allowed Conducted Output Power (dBm)	ERP/EIRP (dBm)
LTE Band 4	1710 - 1755	ANT1	-1.50	25.7	24.20
		ANT2	-2.60	25.7	23.10
		ANT3	-1.70	25.7	24.00
		ANT4	-0.10	25.7	25.60
LTE Band 66	1710 - 1780	ANT1	-1.50	25.7	24.20
		ANT2	-2.60	25.7	23.10
		ANT3	-1.70	25.7	24.00
		ANT4	-0.10	25.7	25.60
5G NR n66	1710 - 1780	ANT1	-1.50	25.7	24.20
		ANT2	-2.60	25.7	23.10
		ANT3	-1.70	25.7	24.00
		ANT4	-0.10	25.7	25.60

6.5. WORST-CASE CONFIGURATION AND MODE

This report covers the following technologies:

- LTE Band 4
- LTE Band 66, 5G NR n66

LTE Band 4 (1710-1755MHz, 5/10/15/20MHz bandwidth) is covered by LTE Band 66 because it is a subset of LTE band 66. Both LET B4 and B66 have the same output power.

For 5G NRs, conducted spurious emission tests were conducted on wider bandwidth with inner 1RB since this is the worst bandwidth and the highest output power.

BPSK modulation applied only for 5G NR frequencies and has the same tune up power as QPSK modulations.

The DFT-s-OFDM and CP-OFDM waveforms were investigated, and DFT-s-OFDM was found to be the worst case.

The worst-case scenario for all measurements is based on an engineering evaluation made on different modulations. Then, QPSK and BPSK were observed as the worst mode to LTE bands and 5G NR bands respectively and set for all conducted and radiated. Output power measurements were measured on BPSK, QPSK, 16QAM, 64QAM, and 256QAM modulations. For testing purposes emissions on section 9 were measured while QPSK/BPSK was set at or above target power for all bands. Conducted tests were performed on the worst-case antenna port because it has the highest conducted power. The worst-case antenna port is shown in the table below.

LTE and 5G NR Bands	Worst case Antenna Port
LTE Band 66 and 5G NR n66	Ant 1

The EUT was investigated in three orthogonal orientations X/Y/Z on all available antennas to determine the worst-case orientation. The following table exhibits the worst-case orientation. The full tests of the EUT have made upon the orientations that shown in the table below.

Frequency Range	ANT1	ANT2	ANT3	ANT4
1710 – 1915 MHz	X	X	Y	X

Radiated spurious emissions were investigated from 9kHz to 30MHz, 30MHz-1GHz and above 1GHz. There were no emissions found with less than 20dB of margin from 9kHz to 30MHz, 30MHz-1GHz.

For simultaneous transmission of multiple channels in the 2.4GHz/5GHz WLAN, UWB, and Cellular bands, tests were conducted for various configurations having the highest power, least separation in frequencies and widest operation bandwidths. No noticeable new emission was found.

6.6. DESCRIPTION OF TEST SETUP

Refer to Appendix A for description of test setup.

7. TEST AND MEASUREMENT EQUIPMENT

The following test and measurement equipment was utilized for the tests documented in this report:

TEST EQUIPMENT LIST				
Description	Manufacturer	Model	Asset	Cal Due
Wideband Communication Test Set, Call Box	R&S GmbH & Co.	CMW500	85723	2026-02-28
Wideband Communication Test Set, Call Box	R&S GmbH & Co.	CMW500	230297	2026-02-28
EMI TEST RECEIVER	Rohde & Schwarz	ESW44	169936	2026-02-28
Antenna, Horn 1-18GHz	ETS Lindgren	3117	200897	2026-04-30
RF Filter Box, 1-18GHz, 12 Port	UL-FR1	Frankenstein	217255	2026-01-31
EMI TEST RECEIVER	Rohde & Schwarz	ESW44	223460	2026-02-28
RF Filter Box, 1-18GHz, 17 Port	UL-FR1	RATS 2	236726	2025-10-31
Antenna, Horn 1-18GHz	ETS Lindgren	3117	80403	2026-08-31
Antenna, Broadband Hybrid, 30MHz to 3GHz	Sunol Sciences Corp.	JB3	171863	2026-11-30
Amplifier 9 KHz - 1 GHz	SONOMA INSTRUMENT	310N	224490	2026-05-06
Antenna, Passive Loop 30Hz - 1MHz	ELECTRO-METRICS	EM-6871	170013	2025-07-31
Antenna, Passive Loop 100KHz - 30MHz	ELECTRO-METRICS	EM-6872	170015	2025-07-31
PXA Signal Analyzer	Keysight Technologies Inc	N9030B	262735	2026-03-30
PXA Signal Analyzer	Keysight Technologies Inc	N9030B	231912	2026-04-30
PXA Signal Analyzer	Keysight Technologies Inc	N9030B	259079	2026-02-28
PXA Signal Analyzer	Agilent Technologies Inc	N9030A	87738	2026-01-16
*UXM 5G Wireless Test Platform	Keysight Technologies Inc	E7515B	AE0068201711 10001B019321	2025-04-15
Wideband Communication Test Set, Call Box	Rohde & Schwarz	CMW500	230298	2026-02-28
Wideband Communication Test Set, Call Box	Rohde & Schwarz	CMW500	222793	2026-02-28
Conducted Switch Box	N/A	CSB	227264	2026-03-31
Conducted Switch Box	N/A	CSB	262286	2026-04-30
Conducted Switch Box	N/A	CSB	262288	2026-04-30
Conducted Switch Box	N/A	CSB	263817	2026-05-31
Filter, BRF 3400-3800MHz, 18GHz max	Micro-Tronics	BRM50711	217364	2025-09-30
Filter, BRF 2305-2315	Micro-Tronics	BRC20553	224186	2026-06-29
Power Sensor, P - series, 50MHz to 18GHz, Wideband	Keysight Technologies Inc	N1921A	257704	2026-03-31
Chamber, Environmental	Cincinnati Sub Zero	ZPHS-8-3.5-SCT/WC	89097	2025-10-31
Chamber, Environmental	Cincinnati Sub Zero	ZPHS-8-3.5-SCT/WC	82472	2025-08-31
UL AUTOMATION SOFTWARE				
Conducted Software	UL	CLT	Ver.2023.11.21.0 & .2024.3.20.0 & 2022.7.6.0 & 2023.6.21	
Conducted Software	UL	Power Measurement	Ver.2023.8.14 & 2022.4.29 & 2023.6.8	
Conducted Software	UL	Antenna Port	Ver.2022.8.16 & 2021.5.13	
Conducted Software	UL	Station Tool	Ver. 5.0 & 5.3 & 6.0 & 6.1	
Radiated Software	UL	UL EMC	Ver 9.5, May 1, 2023	

8. RF OUTPUT POWER VERIFICATION

CONDUCTED OUTPUT POWER MEASUREMENT PROCEDURE

All bands conducted average power is obtained from the base station simulator.

The following tests were conducted according to the test requirements outlined in ANSI C63.26 Section 5.2.

RESULTS

The EUT has different power levels for head use configuration and body use configuration. All measurements are made with the device operating at the highest average conducted output powers.

8.1. LTE BAND 66

Test Engineer ID:	12482	Test Date:	2025-03-17
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OUTPUT POWER FOR LTE BAND 66 (1.4 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 1			ANT 2			ANT 3			ANT 4		
				131979	132322	132665	131979	132322	132665	131979	132322	132665	131979	132322	132665
1.4	QPSK	1	0	25.61	25.55	25.63	25.64	25.70	25.62	25.69	25.69	25.70	25.69	25.33	25.48
		1	2	25.63	25.54	25.63	25.37	25.54	25.56	25.67	25.64	25.62	25.70	25.34	25.58
		1	5	25.63	25.57	25.70	25.35	25.67	25.58	25.66	25.65	25.65	25.63	25.32	25.45
		3	0	25.63	25.54	25.59	25.68	25.53	25.55	25.66	25.64	25.62	25.61	25.32	25.43
		3	1	25.62	25.56	25.56	25.68	25.56	25.53	25.66	25.63	25.62	25.62	25.66	25.44
		3	2	25.60	25.59	25.70	25.69	25.54	25.47	25.69	25.66	25.63	25.62	25.66	25.51
	16QAM	6	0	24.65	24.70	24.66	24.65	24.70	24.66	24.66	24.65	24.70	24.70	24.67	24.69
		1	0	24.68	24.69	24.62	24.67	24.69	24.66	24.61	24.61	24.65	24.60	24.60	24.67
		1	2	24.70	24.62	24.61	24.69	24.66	24.65	24.65	24.67	24.68	24.67	24.63	24.62
		1	5	24.65	24.66	24.70	24.65	24.67	24.67	24.65	24.61	24.61	24.62	24.60	24.64
		3	0	24.64	24.66	24.63	24.61	24.70	24.65	24.63	24.67	24.70	24.70	24.69	24.64
		3	1	24.66	24.63	24.61	24.61	24.62	24.62	24.68	24.68	24.66	24.70	24.68	24.65
	64QAM	3	2	24.67	24.66	24.61	24.70	24.62	24.70	24.67	24.68	24.65	24.63	24.67	24.61
		6	0	23.63	23.68	23.64	23.69	23.70	23.70	23.61	23.42	23.61	23.67	23.62	23.62
		1	0	23.65	23.70	23.66	23.63	23.62	23.65	23.68	23.61	23.61	23.67	23.70	23.64
		1	2	23.68	23.69	23.64	23.66	23.64	23.65	23.39	23.64	23.68	23.69	23.70	23.61
		1	5	23.63	23.67	23.64	23.61	23.62	23.66	23.34	23.60	23.64	23.69	23.62	23.64
		3	0	23.70	23.68	23.62	23.70	23.63	23.67	23.63	23.60	23.65	23.62	23.62	23.69
	256QAM	3	1	23.66	23.65	23.67	23.68	23.61	23.62	23.69	23.54	23.69	23.68	23.66	23.67
		3	2	23.69	23.67	23.62	23.65	23.62	23.66	23.69	23.60	23.66	23.65	23.64	23.63
		6	0	22.65	22.68	22.69	22.66	22.62	22.69	22.67	22.70	22.69	22.68	22.69	22.64
		1	0	20.69	20.67	20.66	20.70	20.64	20.69	20.65	20.62	20.63	20.66	20.65	20.69
		1	2	20.67	20.70	20.69	20.62	20.69	20.63	20.61	20.64	20.70	20.69	20.63	20.65
		1	5	20.61	20.68	20.63	20.65	20.64	20.63	20.68	20.70	20.69	20.69	20.70	20.64
	256QAM	3	0	20.62	20.70	20.63	20.62	20.66	20.68	20.69	20.61	20.65	20.67	20.65	20.63
		3	1	20.66	20.66	20.68	20.63	20.69	20.62	20.62	20.69	20.69	20.61	20.62	20.64
		3	2	20.66	20.63	20.62	20.61	20.68	20.61	20.69	20.65	20.70	20.62	20.68	20.62
		6	0	20.69	20.70	20.64	20.67	20.68	20.70	20.67	20.66	20.63	20.68	20.69	20.68

OUTPUT POWER FOR LTE BAND 66 (3.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 1			ANT 2			ANT 3			ANT 4		
				131987	132322	132657	131987	132322	132657	131987	132322	132657	131987	132322	132657
3.0	QPSK	1	0	25.70	25.63	25.46	25.30	25.56	25.60	25.58	25.49	25.64	25.61	25.36	25.43
		1	7	25.66	25.68	25.70	25.40	25.66	25.70	25.70	25.70	25.35	25.70	25.42	25.69
		1	14	25.63	25.63	25.60	25.64	25.58	25.45	25.52	25.55	25.69	25.60	25.68	25.51
		8	0	24.61	24.63	24.65	24.67	24.61	24.69	24.65	24.63	24.64	24.66	24.67	24.61
		8	4	24.68	24.68	24.62	24.65	24.64	24.68	24.69	24.63	24.70	24.60	24.64	24.62
		8	7	24.66	24.70	24.70	24.61	24.63	24.69	24.64	24.63	24.65	24.68	24.60	24.69
	16QAM	15	0	24.63	24.70	24.65	24.66	24.70	24.66	24.64	24.63	24.66	24.68	24.68	24.70
		1	0	24.63	24.68	24.70	24.63	24.67	24.68	24.68	24.65	24.62	24.63	24.63	24.62
		1	7	24.69	24.63	24.70	24.69	24.67	24.67	24.69	24.69	24.66	24.62	24.69	24.66
		1	14	24.66	24.65	24.66	24.67	24.66	24.62	24.61	24.70	24.65	24.67	24.61	24.68
		8	0	24.64	24.63	24.61	24.68	24.70	24.66	24.68	24.64	24.64	24.70	24.65	24.62
		8	4	24.68	24.69	24.64	24.68	24.63	24.70	24.69	24.64	24.61	24.70	24.62	24.69
	64QAM	8	7	24.70	24.61	24.66	24.63	24.69	24.63	24.67	24.64	24.66	24.63	24.70	24.64
		15	0	24.61	24.61	24.70	24.62	24.66	24.68	24.67	24.64	24.65	24.67	24.68	24.69
		1	0	23.68	23.61	23.68	23.68	23.68	23.66	23.62	23.68	23.69	23.69	23.65	23.66
		1	7	23.64	23.70	23.61	23.64	23.70	23.64	23.68	23.64	23.62	23.70	23.66	23.63
		1	14	23.68	23.68	23.65	23.69	23.66	23.64	23.63	23.62	23.69	23.62	23.63	23.64
		8	0	22.63	22.69	22.70	22.70	22.66	22.67	22.69	22.63	22.64	22.66	22.65	22.62
	256QAM	8	4	22.70	22.69	22.62	22.67	22.67	22.62	22.64	22.68	22.70	22.68	22.64	22.65
		8	7	22.69	22.64	22.63	22.64	22.63	22.68	22.70	22.62	22.61	22.63	22.61	22.66
		15	0	22.64	22.69	22.61	22.63	22.70	22.68	22.70	22.63	22.65	22.62	22.70	22.63
		1	0	20.51	20.64	20.61	20.63	20.70	20.67	20.61	20.64	20.62	20.66	20.70	20.68
		1	7	20.69	20.64	20.62	20.66	20.69	20.70	20.60	20.70	20.69	20.67	20.69	20.69
		1	14	20.66	20.67	20.70	20.57	20.65	20.66	20.68	20.62	20.67	20.69	20.66	20.67
	256QAM	8	0	20.62	20.65	20.65	20.64	20.61	20.66	20.67	20.63	20.63	20.67	20.65	20.61
		8	4	20.68	20.63	20.64	20.70	20.67	20.65	20.61	20.65	20.64	20.60	20.62	20.70
		8	7	20.67	20.69	20.61	20.63	20.64	20.69	20.60	20.65	20.61	20.66	20.60	20.69
		15	0	20.60	20.67	20.65	20.65	20.62	20.69	20.68	20.63	20.61	20.65	20.63	20.65

OUTPUT POWER FOR LTE BAND 66 (5.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 1			ANT 2			ANT 3			ANT 4		
				131997	132322	132647	131997	132322	132647	131997	132322	132647	131997	132322	132647
5.0	QPSK	1	0	25.55	25.60	25.61	25.70	25.46	25.59	25.66	25.56	25.65	25.70	25.42	25.45
		1	12	25.66	25.66	25.67	25.59	25.50	25.62	25.70	25.62	25.63	25.67	25.37	25.51
		1	24	25.62	25.55	25.70	25.54	25.43	25.51	25.60	25.65	25.67	25.59	25.32	25.48
		12	0	24.62	24.66	24.70	24.68	24.64	24.63	24.65	24.70	24.61	24.61	24.69	24.65
		12	6	24.64	24.70	24.61	24.70	24.65	24.65	24.69	24.65	24.64	24.67	24.67	24.61
		12	11	24.61	24.63	24.66	24.63	24.62	24.69	24.70	24.65	24.63	24.68	24.68	24.70
		25	0	24.69	24.69	24.65	24.68	24.62	24.66	24.62	24.63	24.69	24.70	24.62	24.66
	16QAM	1	0	24.65	24.63	24.62	24.69	24.70	24.69	24.64	24.61	24.69	24.68	24.66	24.68
		1	12	24.64	24.68	24.66	24.66	24.66	24.67	24.65	24.66	24.70	24.68	24.68	24.67
		1	24	24.69	24.66	24.65	24.62	24.69	24.68	24.68	24.61	24.64	24.62	24.67	24.67
		12	0	23.66	23.63	23.69	23.65	23.62	23.62	23.63	23.67	23.69	23.65	23.67	23.66
		12	6	23.61	23.68	23.62	23.61	23.67	23.67	23.65	23.63	23.69	23.62	23.70	23.61
		12	11	23.61	23.62	23.68	23.69	23.62	23.61	23.61	23.68	23.63	23.64	23.63	23.62
		25	0	23.70	23.61	23.62	23.61	23.63	23.65	23.66	23.62	23.61	23.62	23.61	23.67
	64QAM	1	0	23.69	23.67	23.68	23.68	23.69	23.68	23.63	23.63	23.62	23.68	23.65	23.64
		1	12	23.62	23.70	23.65	23.70	23.70	23.62	23.70	23.62	23.69	23.66	23.64	23.61
		1	24	23.65	23.69	23.62	23.62	23.67	23.68	23.64	23.68	23.70	23.69	23.69	23.69
		12	0	22.67	22.62	22.66	22.68	22.63	22.70	22.60	22.64	22.65	22.66	22.70	22.65
		12	6	22.70	22.64	22.67	22.66	22.68	22.70	22.63	22.70	22.68	22.61	22.61	22.63
		12	11	22.66	22.69	22.70	22.61	22.63	22.63	22.62	22.68	22.62	22.63	22.64	22.68
		25	0	22.62	22.66	22.65	22.66	22.68	22.63	22.65	22.64	22.69	22.63	22.64	22.67
	256QAM	1	0	20.68	20.65	20.68	20.66	20.66	20.65	20.63	20.64	20.65	20.66	20.65	20.68
		1	12	20.67	20.70	20.65	20.63	20.64	20.62	20.61	20.68	20.66	20.64	20.66	20.69
		1	24	20.64	20.68	20.63	20.66	20.67	20.70	20.63	20.67	20.63	20.63	20.68	20.60
		12	0	20.66	20.65	20.64	20.64	20.67	20.66	20.67	20.63	20.70	20.70	20.68	20.61
		12	6	20.70	20.69	20.64	20.70	20.70	20.66	20.63	20.65	20.64	20.63	20.69	20.67
		12	11	20.66	20.64	20.69	20.64	20.65	20.70	20.65	20.65	20.70	20.62	20.65	20.62
		25	0	20.68	20.62	20.70	20.64	20.64	20.66	20.66	20.60	20.67	20.69	20.61	20.65

OUTPUT POWER FOR LTE BAND 66 (10.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 1			ANT 2			ANT 3			ANT 4		
				132022	132322	132622	132022	132322	132622	132022	132322	132622	132022	132322	132622
10.0	QPSK	1	0	25.67	25.67	25.45	25.67	25.61	25.55	25.67	25.44	25.63	25.70	25.41	25.33
		1	24	25.69	25.70	25.58	25.70	25.55	25.57	25.70	25.62	25.63	25.65	25.35	25.42
		1	49	25.59	25.62	25.50	25.62	25.46	25.50	25.50	25.63	25.67	25.38	25.67	25.45
		25	0	24.67	24.65	24.63	24.62	24.68	24.69	24.70	24.63	24.66	24.61	24.63	24.65
		25	12	24.67	24.64	24.63	24.69	24.64	24.70	24.69	24.67	24.63	24.68	24.66	24.70
		25	24	24.66	24.70	24.62	24.70	24.63	24.68	24.61	24.62	24.64	24.61	24.61	24.63
		50	0	24.62	24.63	24.70	24.67	24.62	24.68	24.64	24.60	24.67	24.67	24.64	24.62
	16QAM	1	0	24.63	24.67	24.68	24.68	24.70	24.62	24.70	24.68	24.61	24.67	24.67	24.67
		1	24	24.67	24.69	24.63	24.69	24.67	24.70	24.65	24.61	24.68	24.63	24.66	24.66
		1	49	24.70	24.63	24.67	24.64	24.68	24.65	24.65	24.70	24.62	24.63	24.66	24.65
		25	0	23.65	23.69	23.66	23.61	23.70	23.68	23.61	23.63	23.68	23.69	23.68	23.68
		25	12	23.64	23.68	23.67	23.62	23.65	23.62	23.62	23.70	23.69	23.69	23.69	23.62
		25	24	23.65	23.63	23.66	23.70	23.67	23.69	23.62	23.62	23.62	23.67	23.62	23.70
		50	0	23.70	23.70	23.65	23.67	23.64	23.68	23.66	23.70	23.64	23.64	23.68	23.62
	64QAM	1	0	23.65	23.66	23.65	23.68	23.65	23.63	23.68	23.64	23.65	23.63	23.60	23.67
		1	24	23.66	23.62	23.69	23.67	23.62	23.68	23.65	23.68	23.66	23.62	23.68	23.64
		1	49	23.63	23.69	23.62	23.63	23.64	23.69	23.66	23.66	23.65	23.69	23.62	23.61
		25	0	22.68	22.70	22.70	22.64	22.70	22.70	22.68	22.65	22.68	22.67	22.63	22.67
		25	12	22.66	22.66	22.63	22.62	22.62	22.68	22.63	22.70	22.69	22.65	22.69	22.65
		25	24	22.66	22.62	22.70	22.70	22.68	22.69	22.67	22.63	22.69	22.70	22.61	22.66
		50	0	22.67	22.64	22.68	22.70	22.68	22.67	22.68	22.70	22.68	22.64	22.64	22.70
	256QAM	1	0	20.70	20.69	20.62	20.62	20.67	20.62	20.61	20.65	20.62	20.67	20.70	20.69
		1	24	20.63	20.70	20.65	20.69	20.65	20.64	20.64	20.67	20.62	20.65	20.69	20.62
		1	49	20.62	20.67	20.64	20.66	20.66	20.62	20.63	20.62	20.63	20.64	20.70	20.68
		25	0	20.65	20.70	20.68	20.69	20.62	20.69	20.64	20.60	20.64	20.70	20.68	20.65
		25	12	20.62	20.64	20.68	20.64	20.63	20.62	20.70	20.70	20.65	20.68	20.68	20.68
		25	24	20.62	20.69	20.64	20.70	20.62	20.68	20.65	20.69	20.63	20.62	20.63	20.67
		50	0	20.63	20.69	20.63	20.64	20.70	20.70	20.68	20.65	20.66	20.67	20.66	20.69

OUTPUT POWER FOR LTE BAND 66 (15.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 1			ANT 2			ANT 3			ANT 4		
				132047	132322	132597	132047	132322	132597	132047	132322	132597	132047	132322	132597
15.0	QPSK	1	0	25.62	25.70	25.59	25.70	25.57	25.50	25.68	25.45	25.36	25.70	25.52	25.57
		1	37	25.58	25.66	25.64	25.67	25.47	25.51	25.60	25.61	25.70	25.51	25.30	25.40
		1	74	25.55	25.51	25.62	25.53	25.42	25.45	25.36	25.70	25.69	25.63	25.62	25.48
		36	0	24.67	24.61	24.70	24.65	24.64	24.62	24.67	24.64	24.69	24.68	24.67	24.61
		36	16	24.67	24.69	24.66	24.64	24.70	24.63	24.70	24.61	24.62	24.70	24.70	24.62
		36	35	24.64	24.63	24.61	24.67	24.65	24.69	24.70	24.65	24.67	24.65	24.62	24.69
		75	0	24.70	24.70	24.68	24.67	24.64	24.68	24.70	24.68	24.69	24.60	24.62	24.69
	16QAM	1	0	24.68	24.61	24.65	24.63	24.65	24.67	24.61	24.69	24.63	24.69	24.62	24.65
		1	37	24.69	24.69	24.65	24.61	24.66	24.65	24.64	24.67	24.67	24.68	24.68	24.68
		1	74	24.62	24.70	24.63	24.64	24.70	24.70	24.66	24.66	24.69	24.62	24.66	24.70
		36	0	23.70	23.61	23.70	23.65	23.64	23.64	23.66	23.61	23.69	23.62	23.65	23.70
		36	16	23.67	23.68	23.67	23.61	23.70	23.66	23.70	23.69	23.70	23.69	23.68	23.65
		36	35	23.65	23.63	23.64	23.61	23.69	23.61	23.61	23.67	23.64	23.64	23.65	23.63
		75	0	23.64	23.64	23.62	23.61	23.66	23.63	23.67	23.68	23.68	23.66	23.66	23.64
	64QAM	1	0	23.62	23.69	23.63	23.65	23.65	23.69	23.65	23.61	23.62	23.65	23.65	23.61
		1	37	23.63	23.63	23.68	23.65	23.66	23.69	23.63	23.65	23.65	23.65	23.65	23.70
		1	74	23.70	23.63	23.70	23.70	23.65	23.67	23.69	23.69	23.70	23.60	23.68	23.62
		36	0	22.69	22.62	22.61	22.66	22.63	22.70	22.67	22.62	22.70	22.61	22.62	22.62
		36	16	22.67	22.61	22.69	22.66	22.70	22.69	22.65	22.63	22.63	22.66	22.63	22.69
		36	35	22.67	22.68	22.67	22.62	22.61	22.65	22.62	22.66	22.67	22.68	22.62	22.63
		75	0	22.67	22.67	22.66	22.62	22.69	22.67	22.67	22.70	22.62	22.61	22.61	22.66
	256QAM	1	0	20.70	20.61	20.66	20.68	20.70	20.62	20.65	20.63	20.63	20.62	20.69	20.70
		1	37	20.67	20.64	20.61	20.65	20.69	20.65	20.66	20.68	20.68	20.66	20.70	20.64
		1	74	20.69	20.62	20.66	20.67	20.70	20.62	20.66	20.63	20.69	20.69	20.67	20.69
		36	0	20.68	20.69	20.68	20.66	20.65	20.63	20.63	20.61	20.70	20.66	20.65	20.67
		36	16	20.68	20.68	20.67	20.64	20.61	20.64	20.64	20.63	20.63	20.69	20.65	20.63
		36	35	20.65	20.61	20.64	20.63	20.67	20.68	20.63	20.65	20.65	20.66	20.65	20.68
		75	0	20.64	20.63	20.64	20.62	20.68	20.62	20.70	20.62	20.69	20.65	20.65	20.66

OUTPUT POWER FOR LTE BAND 66 (20.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 1			ANT 2			ANT 3			ANT 4		
				132072	132322	132572	132072	132322	132572	132072	132322	132572	132072	132322	132572
20.0	QPSK	1	0	25.65	25.62	25.53	25.68	25.60	25.62	25.70	25.34	25.53	25.68	25.49	25.70
		1	49	25.70	25.63	25.61	25.70	25.62	25.56	25.53	25.68	25.62	25.52	25.39	25.36
		1	99	25.57	25.49	25.55	25.55	25.46	25.60	25.62	25.61	25.65	25.68	25.37	25.49
		50	0	24.68	24.65	24.70	24.69	24.70	24.66	24.61	24.67	24.61	24.70	24.70	24.69
		50	24	24.67	24.69	24.66	24.67	24.66	24.66	24.66	24.70	24.67	24.69	24.69	24.61
		50	49	24.69	24.64	24.69	24.70	24.68	24.69	24.60	24.62	24.69	24.62	24.67	24.65
		100	0	24.62	24.65	24.62	24.69	24.70	24.66	24.61	24.65	24.69	24.65	24.70	24.63
	16QAM	1	0	24.64	24.63	24.70	24.62	24.66	24.64	24.62	24.68	24.70	24.66	24.67	24.64
		1	49	24.66	24.64	24.68	24.69	24.69	24.68	24.67	24.67	24.66	24.66	24.70	24.66
		1	99	24.70	24.70	24.69	24.70	24.69	24.70	24.65	24.69	24.61	24.70	24.62	24.67
		50	0	23.70	23.64	23.68	23.65	23.66	23.64	23.70	23.65	23.63	23.66	23.62	23.64
		50	24	23.66	23.69	23.66	23.66	23.65	23.63	23.68	23.70	23.69	23.63	23.69	23.69
		50	49	23.69	23.62	23.70	23.70	23.69	23.69	23.62	23.65	23.69	23.66	23.61	23.63
		100	0	23.61	23.67	23.63	23.70	23.62	23.70	23.60	23.64	23.68	23.61	23.70	23.64
	64QAM	1	0	23.70	23.67	23.63	23.69	23.66	23.70	23.64	23.65	23.62	23.70	23.66	23.61
		1	49	23.63	23.70	23.67	23.70	23.66	23.63	23.61	23.67	23.70	23.65	23.64	23.67
		1	99	23.66	23.65	23.66	23.65	23.65	23.64	23.70	23.61	23.62	23.61	23.62	23.65
		50	0	22.68	22.66	22.67	22.66	22.70	22.69	22.62	22.68	22.66	22.67	22.70	22.62
		50	24	22.65	22.70	22.68	22.66	22.65	22.69	22.67	22.70	22.61	22.61	22.64	22.67
		50	49	22.67	22.65	22.69	22.68	22.70	22.62	22.60	22.62	22.61	22.66	22.68	22.70
		100	0	22.70	22.66	22.65	22.66	22.63	22.65	22.64	22.66	22.61	22.69	22.68	22.62
	256QAM	1	0	20.64	20.66	20.69	20.66	20.68	20.70	20.69	20.66	20.64	20.69	20.67	20.69
		1	49	20.69	20.65	20.64	20.67	20.63	20.66	20.69	20.62	20.63	20.63	20.65	20.64
		1	99	20.63	20.63	20.69	20.62	20.69	20.68	20.62	20.67	20.70	20.70	20.62	20.64
		50	0	20.66	20.63	20.67	20.68	20.69	20.70	20.64	20.67	20.67	20.62	20.62	20.65
		50	24	20.64	20.68	20.67	20.66	20.66	20.62	20.70	20.68	20.68	20.66	20.66	20.69
		50	49	20.69	20.63	20.67	20.70	20.66	20.68	20.61	20.70	20.68	20.69	20.69	20.62
		100	0	20.70	20.65	20.70	20.65	20.62	20.64	20.61	20.64	20.69	20.66	20.69	20.63

8.2. 5G NR n66

Test Engineer ID:	32546/32061	Test Date:	2025-07-01
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OUTPUT POWER FOR 5G NR n66 (5.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 1			ANT 2			ANT 3			ANT 4		
				342500	349000	355500	342500	349000	355500	342500	349000	355500	342500	349000	355500
5.0	BPSK	1	0	1712.5	1745.0	1777.5	1712.5	1745.0	1777.5	1712.5	1745.0	1777.5	1712.5	1745.0	1777.5
		1	0	25.17	25.17	25.19	25.19	25.11	25.10	25.18	25.18	25.12	25.17	25.16	25.16
		1	1	25.31	25.41	25.56	25.50	25.35	25.42	25.41	25.53	25.60	25.47	25.63	25.55
		1	23	25.33	25.45	25.53	25.47	25.33	25.50	25.46	25.52	25.55	25.49	25.55	25.53
		1	24	25.12	25.15	25.14	25.12	25.19	25.16	25.19	25.20	25.19	25.18	25.15	25.20
		12	6	25.41	25.59	25.70	25.70	25.42	25.49	25.60	25.69	25.70	25.56	25.67	25.70
	QPSK	25	0	25.14	25.16	25.20	25.20	25.14	25.18	25.14	25.18	25.16	25.16	25.19	25.18
		1	0	24.65	24.63	24.69	24.63	24.63	24.63	24.70	24.42	24.61	24.69	24.66	24.69
		1	1	25.63	25.44	25.48	25.60	25.34	25.41	25.50	25.61	25.59	25.49	25.65	25.47
		1	23	25.31	25.40	25.63	25.54	25.35	25.41	25.53	25.58	25.60	25.51	25.54	25.54
		1	24	24.69	24.64	24.65	24.63	24.62	24.69	24.65	24.66	24.31	24.70	24.61	24.69
		12	6	25.37	25.49	25.69	25.66	25.41	25.50	25.60	25.61	25.68	25.59	25.63	25.67
	16QAM	25	0	24.69	24.70	24.63	24.68	24.64	24.70	24.69	24.70	24.69	24.65	24.69	24.67
		1	0	23.61	23.61	23.69	23.66	23.64	23.62	23.60	23.66	23.65	23.63	23.68	23.61
		1	1	24.67	24.66	24.62	24.70	24.70	24.64	24.60	24.66	24.58	24.64	24.69	24.65
		1	23	24.65	24.65	24.70	24.69	24.62	24.62	24.65	24.68	24.60	24.63	24.70	24.66
		1	24	23.62	23.69	23.69	23.66	23.60	23.61	23.60	23.70	23.50	23.69	23.69	23.65
		12	6	24.66	24.65	24.66	24.62	24.62	24.66	24.67	24.70	24.57	24.61	24.64	24.69
	64QAM	25	0	23.63	23.66	23.64	23.68	23.62	23.64	23.68	23.70	23.57	23.62	23.61	23.69
		1	0	23.15	23.18	23.15	23.13	23.20	23.16	23.15	23.13	23.01	23.20	23.18	23.20
		1	1	23.11	23.16	23.15	23.16	23.15	23.20	23.16	23.13	23.09	23.10	23.11	23.18
		1	23	23.18	23.19	23.17	23.14	23.13	23.15	23.20	23.16	23.00	23.17	23.12	23.18
		1	24	23.13	23.14	23.14	23.17	23.20	23.19	23.16	23.16	23.00	23.13	23.16	23.15
		12	6	23.20	23.14	23.16	23.19	23.11	23.13	23.20	23.13	23.05	23.18	23.16	23.18
	256QAM	25	0	23.17	23.12	23.11	23.18	23.19	23.20	23.11	23.19	22.98	23.20	23.11	23.18
		1	0	21.16	21.19	21.18	21.10	21.11	21.20	21.13	21.19	20.99	21.18	21.14	21.18
		1	1	21.17	21.12	21.12	21.16	21.14	21.17	21.16	21.15	20.99	21.13	21.16	21.14
		1	23	21.11	21.16	21.12	21.15	21.18	21.11	21.16	20.88	21.13	21.12	21.18	21.15
		1	24	21.19	21.14	21.13	21.11	21.12	21.20	20.81	21.20	20.97	21.10	21.16	21.20
		12	6	21.18	21.16	21.11	21.17	21.11	21.10	21.12	21.16	21.02	21.18	21.18	21.13
		25	0	21.19	21.15	21.20	21.20	21.15	21.17	21.15	21.16	21.13	21.17	21.11	21.18

OUTPUT POWER FOR 5G NR n66 (10.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 1			ANT 2			ANT 3			ANT 4		
				343000	349000	355000	343000	349000	355000	343000	349000	355000	343000	349000	355000
10.0	BPSK	1	0	1715.0	1745.0	1775.0	1715.0	1745.0	1775.0	1715.0	1745.0	1775.0	1715.0	1745.0	1775.0
		1	0	25.19	25.17	25.20	25.19	25.20	25.19	24.92	24.92	25.10	25.20	25.13	25.12
		1	1	25.46	25.65	25.69	25.70	25.46	25.51	25.34	25.63	25.40	25.60	25.65	25.66
		1	50	25.63	25.65	25.70	25.53	25.43	25.58	25.44	25.70	25.39	25.65	25.62	25.58
		1	51	25.17	25.18	25.20	25.13	25.17	25.19	25.08	25.19	25.10	25.13	25.11	25.17
		25	12	25.59	25.66	25.64	25.55	25.32	25.50	25.40	25.67	25.43	25.62	25.70	25.52
	QPSK	50	0	25.16	25.14	25.14	25.11	25.11	25.18	25.19	25.20	24.81	25.13	25.15	25.19
		1	0	24.68	24.63	24.63	24.68	24.69	24.66	24.57	24.69	24.66	24.67	24.69	24.64
		1	1	25.56	25.69	25.65	25.61	25.46	25.54	25.36	25.61	25.46	25.63	25.65	25.66
		1	50	25.64	25.62	25.70	25.54	25.44	25.56	25.37	25.48	25.47	25.64	25.66	25.64
		1	51	24.67	24.65	24.69	24.70	24.64	24.70	24.37	24.60	24.61	24.68	24.70	24.64
		25	12	25.58	25.62	25.62	25.68	25.39	25.51	25.60	25.65	25.44	25.69	25.69	25.58
	16QAM	50	0	24.63	24.68	24.66	24.66	24.68	24.67	24.60	24.70	24.68	24.68	24.64	24.68
		1	0	23.68	23.62	23.64	23.62	23.66	23.69	23.48	23.53	23.55	23.70	23.67	23.65
		1	1	24.68	24.69	24.65	24.64	24.62	24.62	24.53	24.50	24.53	24.64	24.61	24.61
		1	50	24.69	24.63	24.62	24.69	24.68	24.66	24.43	24.52	24.51	24.66	24.68	24.64
		1	51	23.68	23.64	23.66	23.65	23.67	23.61	23.58	23.49	23.49	23.69	23.70	23.67
		25	12	24.65	24.69	24.66	24.70	24.69	24.70	24.31	24.46	24.56	24.66	24.63	24.64
	64QAM	50	0	23.70	23.66	23.61	23.62	23.69	23.64	23.70	23.39	23.62	23.66	23.63	23.62
		1	0	23.17	23.16	23.19	23.17	23.14	23.14	23.12	23.20	23.18	23.13	23.18	23.20
		1	1	23.13	23.12	23.13	23.17	23.17	23.15	23.00	23.10	23.05	23.16	23.11	23.17
		1	50	23.20	23.12	23.10	23.18	23.11	23.16	22.99	22.95	23.06	23.18	23.16	23.12
		1	51	23.20	23.17	23.15	23.16	23.20	23.19	22.98	22.98	23.16	23.16	23.11	23.13
		25	12	23.11	23.16	23.10	23.19	23.18	23.18	23.05	23.06	22.94	23.15	23.12	23.18
	256QAM	50	0	23.20	23.14	23.11	23.13	23.16	23.15	23.05	23.04	23.04	23.13	23.11	23.18
		1	0	21.13	21.11	21.20	21.18	21.13	21.12	20.93	21.08	20.98	21.16	21.13	21.15
		1	1	21.19	21.12	21.19	21.18	21.12	21.13	20.90	21.04	21.17	21.15	21.15	21.19
		1	50	21.13	21.18	21.17	21.15	21.18	21.19	21.16	21.03	20.93	21.20	21.14	21.16
		1	51	21.12	21.20	21.11	21.15	21.17	21.19	20.89	21.09	21.00	21.20	21.14	21.17
		25	12	21.18	21.12	21.20	21.11	21.20	21.18	21.03	21.06	21.05	21.15	21.16	21.20
		50	0	21.14	21.11	21.11	21.19	21.12	21.20	20.82	20.96	21.00	21.12	21.19	21.11

OUTPUT POWER FOR 5G NR n66 (15.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 1			ANT 2			ANT 3			ANT 4		
				343500	349000	354500	343500	349000	354500	343500	349000	354500	343500	349000	354500
15.0	BPSK	1	0	25.17	25.19	25.17	25.18	25.16	25.20	25.20	25.10	25.09	25.20	25.15	25.18
		1	1	25.48	25.55	25.70	25.70	25.54	25.48	25.53	25.61	25.51	25.57	25.70	25.57
		1	77	25.49	25.57	25.70	25.55	25.42	25.50	25.44	25.36	25.33	25.55	25.50	25.46
		1	78	25.13	25.15	25.16	25.16	25.17	25.16	25.20	25.14	25.03	25.18	25.14	25.18
		36	18	25.38	25.52	25.63	25.51	25.42	25.55	25.52	25.37	25.31	25.52	25.48	25.37
		75	0	25.15	25.20	25.15	25.16	25.13	25.20	25.16	25.01	25.20	25.11	25.16	25.18
		1	0	24.63	24.70	24.64	24.63	24.65	24.69	24.69	24.60	24.70	24.70	24.64	24.70
	QPSK	1	1	25.50	25.59	25.69	25.64	25.49	25.61	25.64	25.50	25.61	25.59	25.61	25.58
		1	77	25.61	25.58	25.64	25.48	25.37	25.49	25.54	25.38	25.62	25.62	25.44	25.49
		1	78	24.64	24.69	24.61	24.68	24.64	24.66	24.64	24.66	24.66	24.64	24.62	24.70
		36	18	25.48	25.57	25.60	25.54	25.42	25.59	25.56	25.57	25.65	25.55	25.59	25.53
		75	0	24.68	24.67	24.69	24.68	24.70	24.63	24.62	24.67	24.67	24.61	24.64	24.69
		1	0	23.61	23.61	23.60	23.67	23.69	23.63	23.63	23.58	23.65	23.61	23.64	23.66
		1	1	24.70	24.65	24.64	24.64	24.69	24.70	24.68	24.69	24.65	24.65	24.70	24.60
	16QAM	1	77	24.66	24.66	24.61	24.63	24.66	24.68	24.55	24.69	24.61	24.61	24.67	24.68
		1	78	23.62	23.65	23.65	23.70	23.68	23.69	23.61	23.47	23.70	23.66	23.65	23.64
		36	18	24.67	24.60	24.67	24.67	24.70	24.62	24.45	24.64	24.66	24.69	24.65	24.60
		75	0	23.67	23.66	23.67	23.62	23.63	23.65	23.62	23.66	23.69	23.66	23.61	23.68
		1	0	23.14	23.19	23.16	23.20	23.12	23.13	22.96	23.18	23.17	23.18	23.11	23.13
		1	1	23.18	23.11	23.13	23.13	23.18	23.17	23.16	23.16	23.12	23.18	23.15	23.12
		1	77	23.15	23.13	23.20	23.20	23.19	23.19	23.02	23.17	23.16	23.11	23.13	23.14
	64QAM	1	78	23.17	23.18	23.14	23.14	23.13	23.16	23.12	23.11	23.16	23.20	23.20	23.15
		36	18	23.15	23.13	23.11	23.13	23.12	23.18	23.12	23.14	23.18	23.20	23.17	23.14
		75	0	23.20	23.18	23.11	23.17	23.15	23.17	22.99	23.12	23.20	23.13	23.14	23.19
	256QAM	1	0	21.15	21.16	21.17	21.13	21.14	21.19	21.15	21.16	21.18	21.15	21.18	21.18
		1	1	21.16	21.17	21.19	21.16	21.14	21.17	21.20	21.06	21.20	21.16	21.12	21.12
		1	77	21.12	21.20	21.15	21.15	21.14	21.18	20.95	21.13	21.16	21.17	21.13	21.17
		1	78	21.15	21.17	21.12	21.17	21.15	21.19	21.13	21.15	21.15	21.11	21.18	21.14
		36	18	21.19	21.18	21.16	21.20	21.12	21.19	21.14	21.13	21.13	21.20	21.11	21.17
		75	0	21.20	21.12	21.13	21.17	21.17	21.20	20.97	21.16	21.18	21.13	21.18	21.15

OUTPUT POWER FOR 5G NR n66 (20.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 1			ANT 2			ANT 3			ANT 4		
				344000	349000	354000	344000	349000	354000	344000	349000	354000	344000	349000	354000
20.0	BPSK	1	0	25.13	25.20	24.97	25.16	25.13	25.13	25.17	25.12	25.14	25.16	25.20	25.12
		1	1	25.44	25.53	25.70	25.69	25.63	25.62	25.59	25.48	25.50	25.59	25.68	25.57
		1	104	25.70	25.56	25.68	25.57	25.57	25.61	25.52	25.48	25.70	25.65	25.65	25.53
		1	105	25.15	25.14	25.05	25.14	25.13	25.18	25.14	25.18	25.18	25.15	25.13	25.13
		50	25	25.57	25.61	25.68	25.61	25.51	25.70	25.44	25.49	25.56	25.63	25.64	25.52
		100	0	25.15	25.19	25.17	25.20	25.20	25.17	25.20	25.15	25.20	25.20	25.16	25.17
		1	0	24.70	24.61	24.64	24.67	24.69	24.64	24.69	24.69	24.66	24.69	24.68	24.70
	QPSK	1	1	25.51	25.67	25.62	25.64	25.57	25.64	25.49	25.55	25.64	25.59	25.67	25.53
		1	104	25.61	25.70	25.61	25.56	25.56	25.70	25.48	25.59	25.69	25.64	25.61	25.58
		1	105	24.68	24.69	24.69	24.63	24.70	24.69	24.63	24.63	24.70	24.69	24.64	24.67
		50	25	25.56	25.63	25.60	25.65	25.50	25.54	25.53	25.52	25.57	25.66	25.63	25.55
		100	0	24.62	24.65	24.69	24.62	24.62	24.66	24.69	24.63	24.63	24.69	24.67	24.68
		1	0	23.70	23.61	23.65	23.65	23.64	23.70	23.65	23.70	23.68	23.64	23.69	23.62
		1	1	24.61	24.56	24.59	24.64	24.60	24.62	24.65	24.60	24.65	24.70	24.66	24.65
	16QAM	1	104	24.68	24.70	24.65	24.65	24.67	24.61	24.54	24.65	24.67	24.61	24.70	24.65
		1	105	23.61	23.67	23.62	23.61	23.60	23.65	23.51	23.70	23.64	23.69	23.66	23.69
		50	25	24.63	24.65	24.70	24.66	24.64	24.61	24.67	24.64	24.66	24.63	24.65	24.65
		100	0	23.69	23.61	23.65	23.60	23.67	23.67	23.64	23.69	23.68	23.68	23.63	23.62
	64QAM	1	0	23.13	23.02	23.14	23.16	23.12	23.20	23.19	23.09	23.18	23.18	23.19	23.20
		1	1	23.13	22.92	23.07	23.19	23.15	23.15	23.20	23.20	23.13	23.20	23.19	23.15
		1	104	23.16	23.19	23.13	23.15	23.15	23.12	23.18	23.05	23.15	23.17	23.15	23.18
		1	105	23.20	23.17	23.13	23.19	23.15	23.12	23.20	23.04	23.15	23.11	23.13	23.16
		50	25	23.20	23.15	23.18	23.17	23.15	23.17	23.12	23.17	23.18	23.20	23.17	23.12
		100	0	23.14	23.13	23.18	23.14	23.16	23.14	23.12	23.15	23.17	23.17	23.19	23.18
		1	0	21.13	21.06	21.19	21.14	21.12	21.17	21.17	21.13	21.20	21.16	21.20	21.10
	256QAM	1	1	21.20	20.90	21.17	21.19	21.20	21.11	21.08	21.04	21.16	21.15	21.12	21.13
		1	104	21.17	21.13	21.16	21.16	21.11	21.15	21.16	21.13	21.11	21.13	21.14	21.15
		1	105	21.18	20.99	21.17	21.12	21.16	21.19	21.11	21.12	21.18	21.17	21.12	21.10
		50	25	21.18	21.07	21.13	21.17	21.20	21.11	21.11	21.13	21.20	21.19	21.12	21.12
		100	0	21.13	21.12	21.19	21.19	21.17	21.16	21.15	21.07	21.20	21.16	21.10	21.14

OUTPUT POWER FOR 5G NR n66 (25.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 1			ANT 2			ANT 3			ANT 4		
				344500	349000	353500	344500	349000	353500	344500	349000	353500	344500	349000	353500
25.0	BPSK	1	0	25.14	25.12	25.20	25.17	25.20	25.14	25.14	25.11	25.13	25.16	25.15	25.18
		1	1	25.52	25.58	25.54	25.70	25.65	25.55	25.44	25.46	25.70	25.42	25.70	25.66
		1	131	25.52	25.64	25.67	25.48	25.53	25.57	25.43	25.52	25.70	25.44	25.59	25.53
		1	132	25.14	25.19	25.17	25.14	25.18	25.16	25.03	25.04	25.19	25.20	25.15	25.18
		64	32	25.53	25.56	25.64	25.47	25.41	25.43	25.68	25.39	25.59	25.43	25.49	25.46
		128	0	25.20	25.12	25.16	25.13	25.18	25.14	25.00	25.10	25.20	25.19	25.13	25.15
		1	0	24.65	24.68	24.70	24.62	24.70	24.62	24.66	24.63	24.65	24.67	24.70	24.66
		1	1	25.56	25.69	25.63	25.70	25.55	25.48	25.40	25.53	25.66	25.53	25.60	25.54
	QPSK	1	131	25.70	25.69	25.70	25.51	25.54	25.58	25.44	25.69	25.66	25.58	25.57	25.52
		1	132	24.70	24.64	24.67	24.67	24.68	24.63	24.57	24.54	24.70	24.68	24.67	24.61
		64	32	25.51	25.51	25.63	25.54	25.32	25.43	25.30	25.31	25.56	25.49	25.42	25.50
		128	0	24.63	24.61	24.67	24.62	24.68	24.65	24.52	24.64	24.67	24.70	24.64	24.62
		1	0	23.68	23.63	23.61	23.69	23.62	23.67	23.60	23.62	23.70	23.64	23.63	23.67
		1	1	24.64	24.63	24.63	24.61	24.66	24.70	24.64	24.53	24.66	24.70	24.61	24.65
		1	131	24.64	24.63	24.66	24.67	24.66	24.65	24.48	24.54	24.66	24.62	24.66	24.62
		1	132	23.64	23.67	23.70	23.67	23.67	23.62	23.64	23.46	23.66	23.61	23.66	23.62
	16QAM	64	32	24.70	24.67	24.70	24.62	24.61	24.62	24.55	24.47	24.64	24.68	24.70	24.70
		128	0	23.63	23.65	23.69	23.63	23.62	23.66	23.57	23.46	23.62	23.63	23.67	23.63
		1	0	23.20	23.14	23.14	23.15	23.20	23.18	22.96	23.13	23.17	23.20	23.12	23.17
		1	1	23.18	23.13	23.11	23.15	23.18	23.18	23.13	23.15	23.14	23.18	23.17	23.17
		1	131	23.18	23.17	23.17	23.15	23.16	23.12	22.80	23.16	23.02	23.20	23.15	23.18
		1	132	23.20	23.20	23.20	23.12	23.20	23.19	23.08	23.16	23.20	23.11	23.13	23.19
		64	32	23.12	23.20	23.17	23.13	23.11	23.20	23.03	23.14	23.17	23.18	23.16	23.19
		128	0	23.17	23.13	23.18	23.12	23.19	23.17	23.03	23.18	23.20	23.11	23.16	23.16
	64QAM	1	0	21.15	21.15	21.13	21.20	21.18	21.11	21.13	21.16	21.20	21.14	21.18	21.11
		1	1	21.12	21.14	21.15	21.17	21.20	21.13	20.93	21.15	21.14	21.12	21.18	21.13
		1	131	21.18	21.17	21.11	21.19	21.12	21.19	21.04	21.18	21.09	21.18	21.16	21.13
		1	132	21.15	21.13	21.17	21.13	21.18	21.16	21.13	21.11	21.13	21.16	21.19	21.15
		64	32	21.10	21.16	21.14	21.13	21.11	21.13	20.99	21.12	21.13	21.16	21.17	21.20
		128	0	21.18	21.20	21.16	21.20	21.15	21.18	20.99	21.14	21.13	21.15	21.13	21.19
	256QAM	1	0	21.15	21.15	21.13	21.20	21.18	21.11	21.13	21.16	21.20	21.14	21.18	21.11
		1	1	21.12	21.14	21.15	21.17	21.20	21.13	20.93	21.15	21.14	21.12	21.18	21.13
		1	131	21.18	21.17	21.11	21.19	21.12	21.19	21.04	21.18	21.09	21.18	21.16	21.13
		1	132	21.15	21.13	21.17	21.13	21.18	21.16	21.13	21.11	21.13	21.16	21.19	21.15
		64	32	21.10	21.16	21.14	21.13	21.11	21.13	20.99	21.12	21.13	21.16	21.17	21.20
		128	0	21.18	21.20	21.16	21.20	21.15	21.18	20.99	21.14	21.13	21.15	21.13	21.19

OUTPUT POWER FOR 5G NR n66 (30.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 1			ANT 2			ANT 3			ANT 4		
				345000	349000	353000	345000	349000	353000	345000	349000	353000	345000	349000	353000
30.0	BPSK	1	0	25.12	25.18	25.18	25.19	25.20	25.17	25.20	25.11	25.12	25.11	25.16	25.16
		1	1	25.49	25.46	25.57	25.70	25.51	25.41	25.69	25.58	25.62	25.64	25.65	25.64
		1	158	25.54	25.59	25.60	25.53	25.54	25.51	25.61	25.70	25.62	25.69	25.66	25.70
		1	159	25.12	25.13	25.20	25.17	25.20	25.18	25.17	25.15	25.12	25.18	25.20	25.17
		80	40	25.36	25.50	25.51	25.48	25.39	25.47	25.48	25.44	25.55	25.59	25.63	25.49
		160	0	25.18	25.15	25.20	25.20	25.15	25.18	25.13	25.13	25.11	25.14	25.17	25.15
		1	0	24.68	24.68	24.70	24.70	24.64	24.70	24.70	24.65	24.69	24.62	24.67	24.63
		1	1	25.53	25.62	25.68	25.67	25.54	25.42	25.64	25.66	25.49	25.67	25.62	25.69
	QPSK	1	158	25.58	25.66	25.66	25.52	25.61	25.58	25.62	25.51	25.63	25.70	25.63	25.66
		1	159	24.66	24.62	24.61	24.66	24.68	24.69	24.70	24.69	24.65	24.70	24.66	
		80	40	25.35	25.54	25.54	25.53	25.31	25.47	25.58	25.54	25.58	25.66	25.65	25.51
		160	0	24.62	24.63	24.70	24.63	24.68	24.63	24.64	24.65	24.69	24.65	24.62	24.66
		1	0	23.67	23.68	23.66	23.67	23.62	23.69	23.69	23.70	23.63	23.64	23.66	23.63
		1	1	24.67	24.63	24.62	24.66	24.60	24.69	24.62	24.64	24.67	24.68	24.70	24.61
		1	158	24.62	24.66	24.63	24.70	24.64	24.65	24.60	24.67	24.46	24.69	24.60	24.66
		1	159	23.63	23.67	23.70	23.68	23.65	23.68	23.50	23.68	23.66	23.64	23.63	23.68
	16QAM	80	40	24.64	24.61	24.63	24.69	24.64	24.63	24.69	24.64	24.70	24.61	24.61	24.64
		160	0	23.64	23.62	23.65	23.62	23.67	23.66	23.67	23.66	23.69	23.64	23.65	23.68
		1	0	23.19	23.19	23.19	23.13	23.19	23.18	23.12	23.14	23.12	23.20	23.12	23.18
		1	1	23.16	23.17	23.14	23.18	23.17	23.17	22.97	23.16	23.00	23.16	23.10	23.20
		1	158	23.16	23.15	23.16	23.18	23.15	23.15	23.14	23.14	23.13	23.17	23.19	23.14
		1	159	23.20	23.15	23.16	23.20	23.11	23.13	23.15	23.20	23.15	23.12	23.14	23.15
		80	40	23.15	23.18	23.15	23.11	23.19	23.16	23.18	23.10	23.17	23.13	23.16	23.13
		160	0	23.19	23.14	23.15	23.15	23.17	23.19	23.16	23.11	23.18	23.13	23.18	23.15
	64QAM	1	0	21.14	21.16	21.15	21.19	21.15	21.12	21.19	21.12	21.13	21.13	21.14	21.14
		1	1	21.13	21.14	21.17	21.13	21.19	21.19	21.16	21.11	21.20	21.17	21.11	21.13
		1	158	21.19	21.15	21.14	21.17	21.12	21.16	21.18	21.17	21.16	21.18	21.18	21.11
		1	159	21.18	21.15	21.18	21.20	21.15	21.16	21.14	21.18	21.15	21.19	21.15	21.19
		80	40	21.17	21.20	21.16	21.11	21.15	21.19	21.17	21.08	21.13	21.11	21.18	21.20
		160	0	21.17	21.14	21.19	21.20	21.13	21.15	21.14	21.16	21.13	21.14	21.13	21.15

OUTPUT POWER FOR 5G NR n66 (35.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 1			ANT 2			ANT 3			ANT 4		
				345500	349000	352500	345500	349000	352500	345500	349000	352500	345500	349000	352500
35.0	BPSK	1	0	25.15	25.14	25.16	25.20	25.18	25.19	25.20	25.11	25.14	25.13	25.16	
		1	1	25.66	25.51	25.48	25.60	25.63	25.49	25.55	25.64	25.54	25.49	25.61	25.57
		1	186	25.37	25.62	25.70	25.56	25.68	25.62	25.60	25.54	25.65	25.70	25.49	25.52
		1	187	25.12	25.16	25.16	25.15	25.13	25.17	25.13	25.15	25.13	25.16	25.14	25.14
		90	45	25.51	25.48	25.51	25.59	25.44	25.55	25.70	25.62	25.69	25.56	25.62	25.51
		180	0	25.20	25.18	25.19	25.20	25.20	25.12	25.12	25.15	25.17	25.13	25.12	25.20
	QPSK	1	0	24.66	24.67	24.64	24.64	24.61	24.61	24.65	24.63	24.65	24.61	24.68	24.67
		1	1	25.64	25.49	25.52	25.70	25.60	25.56	25.53	25.57	25.62	25.59	25.51	25.65
		1	186	25.35	25.55	25.56	25.57	25.67	25.60	25.62	25.61	25.63	25.58	25.52	25.53
		1	187	24.68	24.63	24.65	24.63	24.69	24.63	24.67	24.61	24.69	24.64	24.62	24.62
		90	45	25.40	25.52	25.69	25.62	25.53	25.50	25.63	25.63	25.65	25.61	25.63	25.56
		180	0	24.63	24.70	24.65	24.63	24.65	24.67	24.64	24.67	24.70	24.64	24.70	24.65
	16QAM	1	0	23.65	23.62	23.70	23.67	23.64	23.62	23.59	23.68	23.69	23.64	23.69	23.63
		1	1	24.61	24.62	24.66	24.61	24.67	24.66	24.67	24.61	24.61	24.70	24.68	24.62
		1	186	24.62	24.65	24.62	24.68	24.62	24.67	24.68	24.62	24.70	24.70	24.62	24.66
		1	187	23.62	23.68	23.66	23.68	23.67	23.64	23.69	23.70	23.65	23.70	23.64	23.64
		90	45	24.67	24.66	24.35	24.62	24.70	24.69	24.66	24.67	24.68	24.64	24.67	24.67
		180	0	23.66	23.64	23.69	23.62	23.60	23.68	23.60	23.63	23.65	23.64	23.62	23.63
	64QAM	1	0	23.13	23.19	23.11	23.19	23.13	23.11	23.18	23.14	23.15	23.17	23.13	23.13
		1	1	23.11	23.12	23.10	23.12	23.11	23.13	23.19	23.13	23.12	23.12	23.16	23.12
		1	186	23.17	23.17	23.19	23.17	23.11	23.20	23.18	23.20	23.14	23.13	23.12	23.20
		1	187	23.15	23.14	23.15	23.13	23.15	23.18	23.14	23.12	23.16	23.19	23.12	23.19
		90	45	23.20	23.18	23.15	23.12	23.12	23.12	23.20	23.19	23.15	23.13	23.11	23.19
		180	0	23.11	23.15	23.19	23.13	23.19	23.14	23.11	23.20	23.18	23.15	23.16	23.20
	256QAM	1	0	21.20	21.14	21.13	21.18	21.12	21.14	21.18	21.19	21.06	21.20	21.15	21.18
		1	1	21.20	21.16	21.15	21.15	21.11	21.14	21.13	21.13	21.20	21.20	21.18	21.13
		1	186	21.17	21.13	21.12	21.12	21.13	21.17	21.15	21.20	21.16	21.18	21.15	21.17
		1	187	21.20	21.14	21.17	21.16	21.17	21.11	21.19	21.12	21.13	21.18	21.14	21.12
		90	45	21.18	21.12	21.20	21.15	21.18	21.19	21.17	21.16	21.14	21.19	21.14	21.12
		180	0	21.14	21.19	21.18	21.19	21.20	21.11	21.18	21.15	21.12	21.11	21.13	21.13

OUTPUT POWER FOR 5G NR n66 (40.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 1			ANT 2			ANT 3			ANT 4		
				346000	349000	352000	346000	349000	352000	346000	349000	352000	346000	349000	352000
40.0	BPSK	1	0	1730.0	1745.0	1760.0	1730.0	1745.0	1760.0	1730.0	1745.0	1760.0	1730.0	1745.0	1760.0
		1	1	25.16	25.14	25.19	25.11	25.13	25.15	25.19	25.18	25.15	25.13	25.20	25.14
		1	214	25.65	25.70	25.63	25.66	25.70	25.59	25.49	25.66	25.59	25.31	25.32	25.70
		1	215	25.15	25.13	25.15	25.20	25.12	25.16	25.20	25.16	25.13	25.11	25.16	25.20
		108	54	25.42	25.51	25.44	25.48	25.35	25.50	25.53	25.41	25.40	25.65	25.32	25.69
		216	0	25.16	25.20	25.17	25.12	25.20	25.13	25.13	25.17	25.13	25.15	25.12	25.14
	QPSK	1	0	24.61	24.64	24.63	24.70	24.69	24.65	24.70	24.66	24.65	24.61	24.61	24.62
		1	1	25.39	25.49	25.39	25.65	25.63	25.43	25.52	25.69	25.59	25.32	25.38	25.51
		1	214	25.52	25.59	25.54	25.59	25.63	25.54	25.57	25.54	25.59	25.46	25.49	25.31
		1	215	24.62	24.67	24.64	24.70	24.69	24.65	24.65	24.65	24.70	24.64	24.68	24.63
		108	54	25.46	25.50	25.51	25.44	25.34	25.51	25.44	25.53	25.59	25.32	25.32	25.35
		216	0	24.70	24.63	24.68	24.69	24.62	24.61	24.66	24.64	24.62	24.70	24.65	24.66
	16QAM	1	0	23.67	23.70	23.66	23.67	23.69	23.64	23.65	23.65	23.59	23.67	23.63	23.65
		1	1	24.69	24.64	24.64	24.63	24.70	24.66	24.65	24.64	24.49	24.67	24.63	24.66
		1	214	24.66	24.67	24.66	24.66	24.66	24.66	24.70	24.65	24.69	24.68	24.69	24.69
		1	215	23.67	23.67	23.62	23.69	23.70	23.69	23.52	23.60	23.70	23.64	23.62	23.67
		108	54	24.62	24.65	24.65	24.66	24.69	24.67	24.67	24.57	24.65	24.62	24.63	24.67
		216	0	23.66	23.66	23.61	23.64	23.65	23.63	23.67	23.55	23.62	23.65	23.69	23.70
	64QAM	1	0	23.18	23.20	23.16	23.11	23.14	23.14	23.12	23.18	23.01	23.14	23.18	23.12
		1	1	23.12	23.18	23.15	23.11	23.19	23.14	23.10	23.08	23.18	23.12	23.14	23.20
		1	214	23.12	23.11	23.12	23.12	23.18	23.20	23.02	23.16	23.14	23.17	23.11	23.20
		1	215	23.12	23.11	23.15	23.15	23.11	23.18	23.20	23.11	23.12	23.11	23.18	23.14
		108	54	23.18	23.17	23.19	23.19	23.19	23.11	23.15	23.08	23.08	23.11	23.11	23.13
		216	0	23.11	23.16	23.11	23.15	23.19	23.17	23.18	23.06	23.11	23.15	23.18	23.13
	256QAM	1	0	21.20	21.15	21.19	21.20	21.19	21.16	21.11	21.20	21.07	21.12	21.13	21.18
		1	1	21.18	21.20	21.14	21.16	21.17	21.19	21.12	21.18	21.01	21.19	21.11	21.13
		1	214	21.14	21.14	21.18	21.14	21.14	21.14	20.96	21.06	20.88	21.19	21.13	21.19
		1	215	21.18	21.19	21.16	21.18	21.11	21.17	20.99	20.92	21.13	21.13	21.15	21.20
		108	54	21.15	21.19	21.14	21.18	21.15	21.20	21.12	21.06	21.07	21.19	21.17	21.17
		216	0	21.12	21.14	21.18	21.18	21.16	21.19	21.12	21.06	21.10	21.12	21.14	21.12

OUTPUT POWER FOR 5G NR n66 (45.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 1			ANT 2			ANT 3			ANT 4		
				346500	349000	351500	346500	349000	351500	346500	349000	351500	346500	349000	351500
45.0	BPSK	1	0	25.07	25.18	25.14	25.19	25.00	25.20	25.18	25.20	25.19	25.20	25.20	25.19
		1	1	25.40	25.64	25.35	25.66	25.70	25.63	25.54	25.64	25.65	25.44	25.39	25.70
		1	240	25.42	25.70	25.52	25.68	25.61	25.70	25.45	25.65	25.70	25.59	25.43	25.44
		1	241	25.14	25.20	25.14	25.01	25.14	25.18	25.12	25.19	25.16	25.14	25.02	24.89
		120	60	25.47	25.34	25.66	25.61	25.65	25.45	25.37	25.35	25.41	25.66	25.66	25.63
		240	0	25.17	25.14	25.12	25.12	25.19	25.19	25.13	25.15	25.18	24.97	24.95	25.00
	QPSK	1	0	24.68	24.66	24.70	24.69	24.66	24.70	24.68	24.63	24.64	24.67	24.65	24.61
		1	1	25.61	25.47	25.39	25.63	25.54	25.64	25.62	25.44	25.62	25.42	25.40	25.48
		1	240	25.42	25.64	25.63	25.66	25.52	25.68	25.60	25.60	25.60	25.69	25.59	25.40
		1	241	24.66	24.64	24.68	24.69	24.70	24.62	24.65	24.65	24.70	24.70	24.66	24.63
		120	60	25.32	25.66	25.67	25.66	25.32	25.41	25.40	25.41	25.39	25.33	25.38	25.38
		240	0	24.66	24.65	24.65	24.64	24.69	24.67	24.63	24.70	24.66	24.64	24.66	24.65
	16QAM	1	0	23.63	23.64	23.70	23.64	23.70	23.64	23.70	23.70	23.70	23.70	23.67	23.69
		1	1	24.61	24.65	24.65	24.70	24.69	24.63	24.60	24.64	24.62	24.64	24.66	24.68
		1	240	24.68	24.66	24.68	24.65	24.69	24.61	24.66	24.67	24.67	24.64	24.65	
		1	241	23.70	23.66	23.63	23.54	23.64	23.64	23.65	23.70	23.69	23.68	23.60	23.67
		120	60	24.64	24.66	24.61	24.65	24.64	24.62	24.62	24.66	24.57	24.65	24.69	24.69
		240	0	23.65	23.66	23.64	23.64	23.69	23.62	23.63	23.65	23.59	23.60	23.63	23.65
	64QAM	1	0	23.13	23.14	23.17	23.16	23.13	23.16	23.19	23.02	23.16	23.12	23.19	23.20
		1	1	23.15	23.20	23.14	23.13	23.13	23.12	23.19	23.12	23.19	23.19	23.17	23.15
		1	240	23.18	23.11	23.13	22.95	23.15	23.16	23.12	23.16	23.20	23.13	23.14	23.15
		1	241	23.19	23.16	23.17	23.14	23.11	23.11	23.01	23.12	23.19	23.20	23.17	23.20
		120	60	23.18	23.17	23.17	23.18	23.18	23.19	23.19	23.14	23.10	23.15	23.20	23.13
		240	0	23.14	23.11	23.15	23.14	23.17	23.20	23.13	23.13	23.09	23.13	23.12	23.11
	256QAM	1	0	21.12	21.12	21.13	21.18	21.20	21.19	21.17	21.13	21.16	21.20	21.15	21.17
		1	1	21.12	21.16	21.15	21.15	21.13	21.13	21.16	21.13	21.20	21.18	21.18	21.19
		1	240	21.20	21.18	21.18	20.90	21.19	21.12	21.17	21.20	21.13	21.13	21.20	21.13
		1	241	21.18	21.18	21.19	21.12	21.11	21.18	21.12	21.17	21.19	21.11	21.18	21.14
		120	60	21.12	21.17	21.11	21.11	21.19	21.16	21.14	21.06	21.13	21.13	21.19	21.15
		240	0	21.12	21.18	21.19	21.11	21.13	21.15	21.18	21.10	21.16	21.19	21.13	21.14

9. CONDUCTED TEST RESULTS

9.1. OCCUPIED BANDWIDTH

RULE PART(S)

FCC: §2.1049
ISED: RSS139

LIMITS

For reporting purposes only.

TEST PROCEDURE

The transmitter output was connected to a calibrated coaxial cable and coupler, the other end of which was connected to a spectrum analyzer. The occupied bandwidth was measured with the spectrum analyzer at the middle channel in each band. The 99% and -26dB bandwidths was also measured and recorded.

RESULTS

There is no limit required and power is the same for low, middle and high channel; therefore, only middle channel was tested.

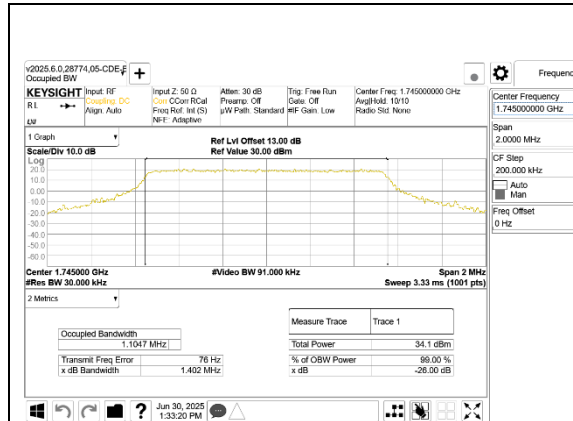
LTE BAND 66

Band	Mode	RB Allocation/RB Offset	f(MHz)	99% BW (MHz)	-26dB BW (MHz)
LTE BAND 66	1.4MHz, QPSK	6/0	1745.0	1.105	1.40
	1.4MHz, 16QAM			1.116	1.44
	3MHz, QPSK	15/0		2.707	3.08
	3MHz, 16QAM			2.714	3.05
	5MHz, QPSK	25/0		4.513	5.15
	5MHz, 16QAM			4.520	5.12
	10MHz, QPSK	50/0		8.999	10.11
	10MHz, 16QAM			9.015	10.01
	15MHz, QPSK	75/0		13.483	14.95
	15MHz, 16QAM			13.519	14.84
	20MHz, QPSK	100/0		17.959	19.87
	20MHz, 16QAM			17.991	19.68
	20MHz, QPSK	1/0		0.271	0.46

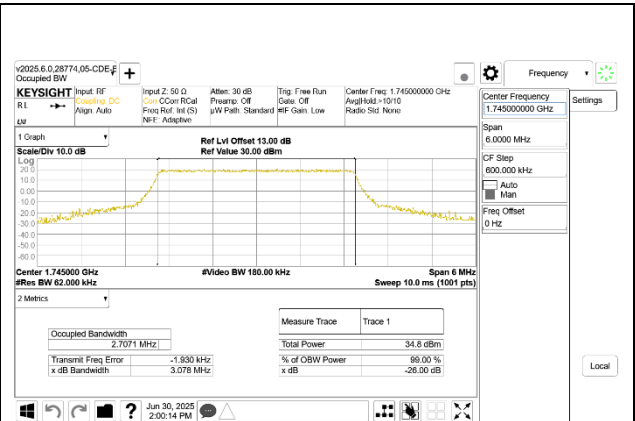
5G NR n66

Band	Mode	RB Allocation/RB Offset	f(MHz)	99% BW (MHz)	-26dB BW (MHz)
5G NR n66	5MHz, BPSK	25/0	1745.0	4.485	5.11
	5MHz, QPSK			4.486	5.12
	5MHz, 16QAM			4.480	5.13
	10MHz, BPSK	50/0		8.954	9.80
	10MHz, QPSK			8.952	9.74
	10MHz, 16QAM			8.963	9.69
	15MHz, BPSK	75/0		13.403	14.30
	15MHz, QPSK			13.465	14.36
	15MHz, 16QAM			13.391	14.33
	20MHz, BPSK	100/0		17.877	18.98
	20MHz, QPSK			17.910	18.95
	20MHz, 16QAM			17.905	18.99
	25MHz, BPSK	128/0		22.906	24.11
	25MHz, QPSK			22.872	24.15
	25MHz, 16QAM			22.963	24.16
	30MHz, BPSK	160/0		28.609	29.97
	30MHz, QPSK			28.557	30.00
	30MHz, 16QAM			28.642	29.95
	35MHz, BPSK	180/0		32.253	33.90
	35MHz, QPSK			32.234	33.90
	35MHz, 16QAM			32.169	33.85
	40MHz, BPSK	216/0		38.669	40.42
	40MHz, QPSK			38.590	40.42
	40MHz, 16QAM			38.547	40.44
	45MHz, BPSK	240/0		43.039	45.25
	45MHz, QPSK			42.898	45.19
	45MHz, 16QAM			42.902	45.13
		45MHz, BPSK		1/0	

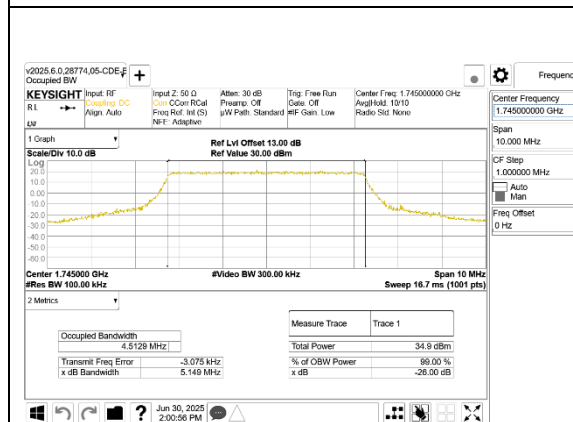
9.1.1. LTE BAND 66



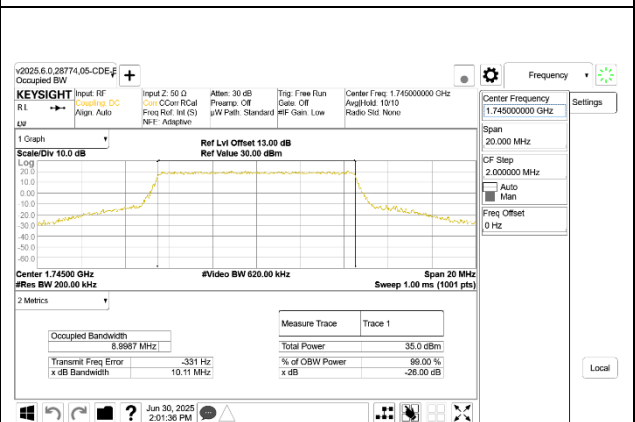
LTE B66 1.4MHz QPSK Middle Channel RB6-0



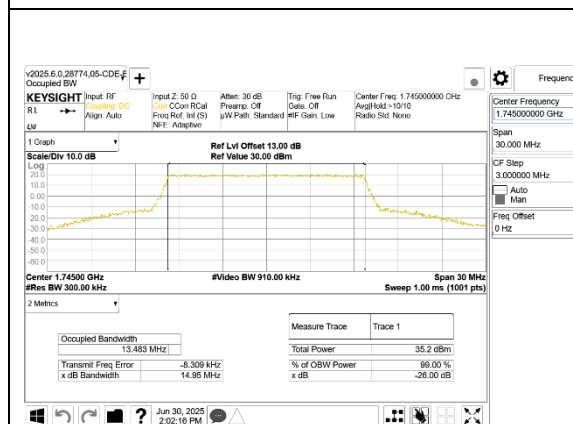
LTE B66 3MHz QPSK Middle Channel RB15-0



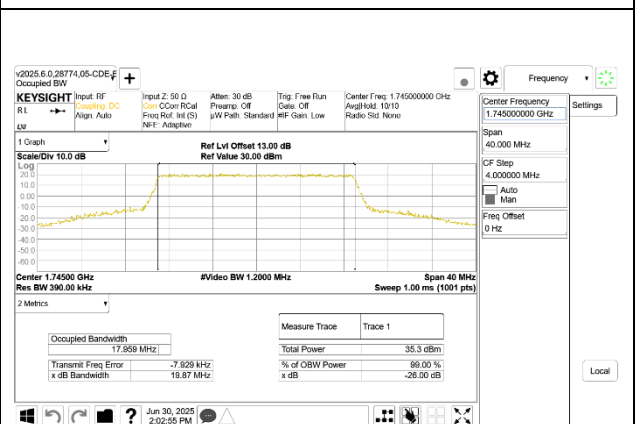
LTE B66 5MHz QPSK Middle Channel RB25-0



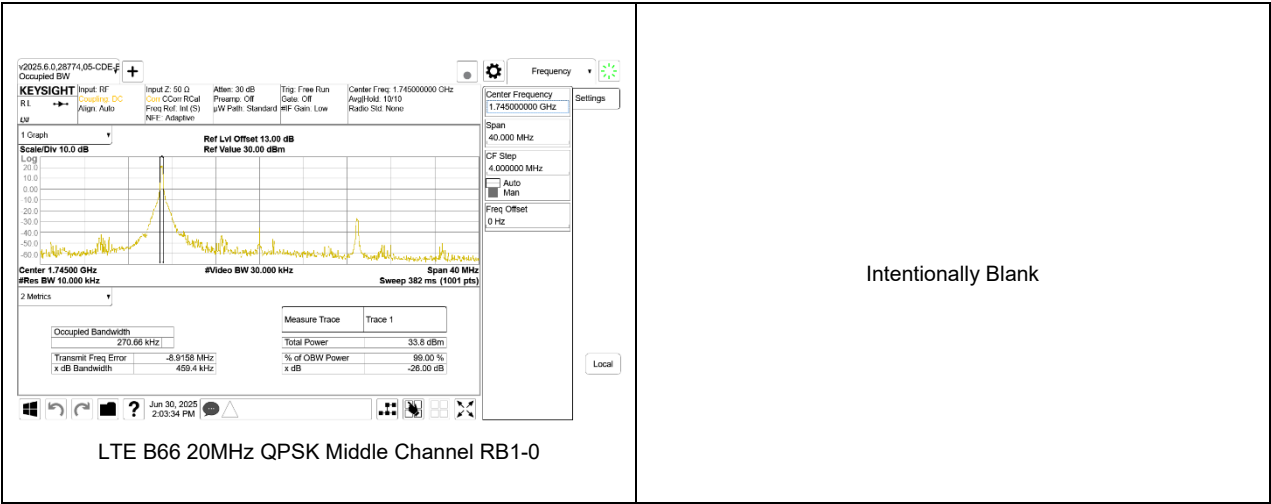
LTE B66 10MHz QPSK Middle Channel RB50-0



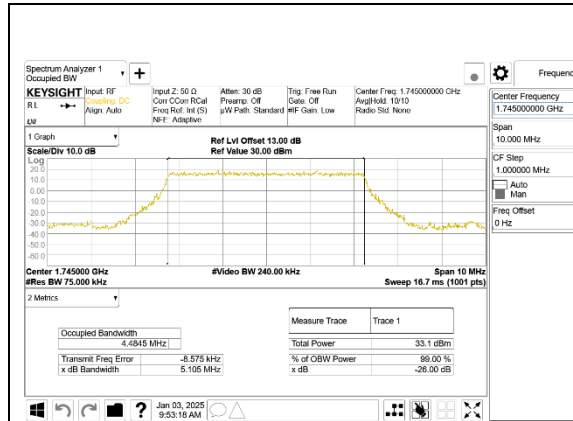
LTE B66 15MHz QPSK Middle Channel RB75-0



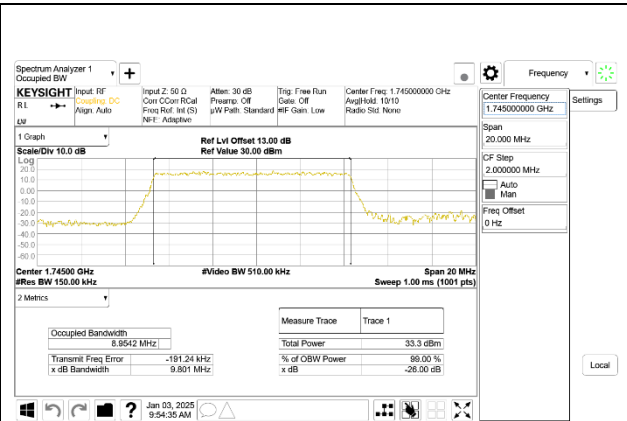
LTE B66 20MHz QPSK Middle Channel RB100-0



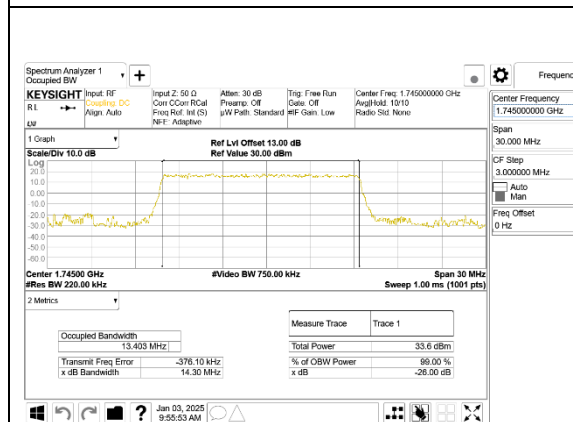
9.1.2. 5G NR n66



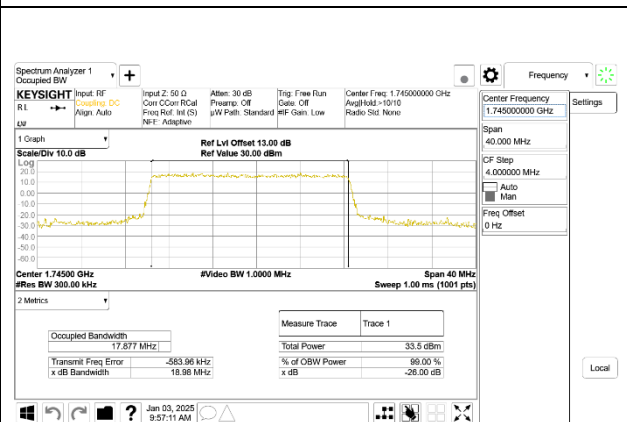
5G NR n66 5MHz BPSK Middle Channel RB25-0, ID:25780



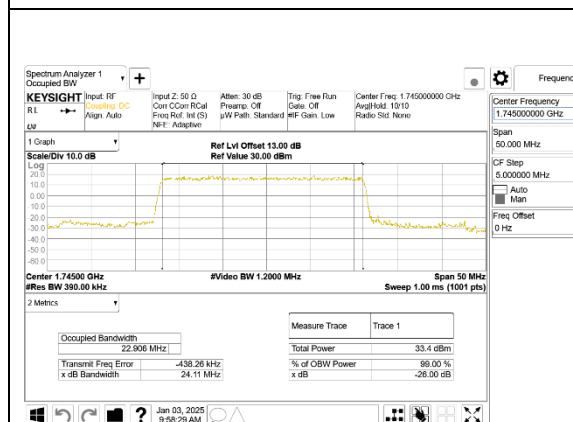
5G NR n66 10MHz BPSK Middle Channel RB50-0, ID:25780



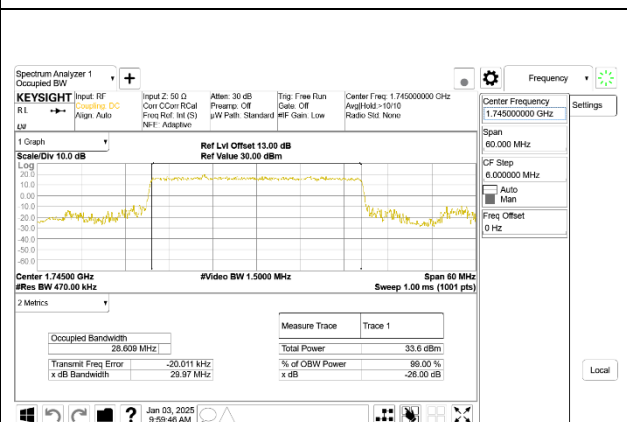
5G NR n66 15MHz BPSK Middle Channel RB75-0, ID:25780



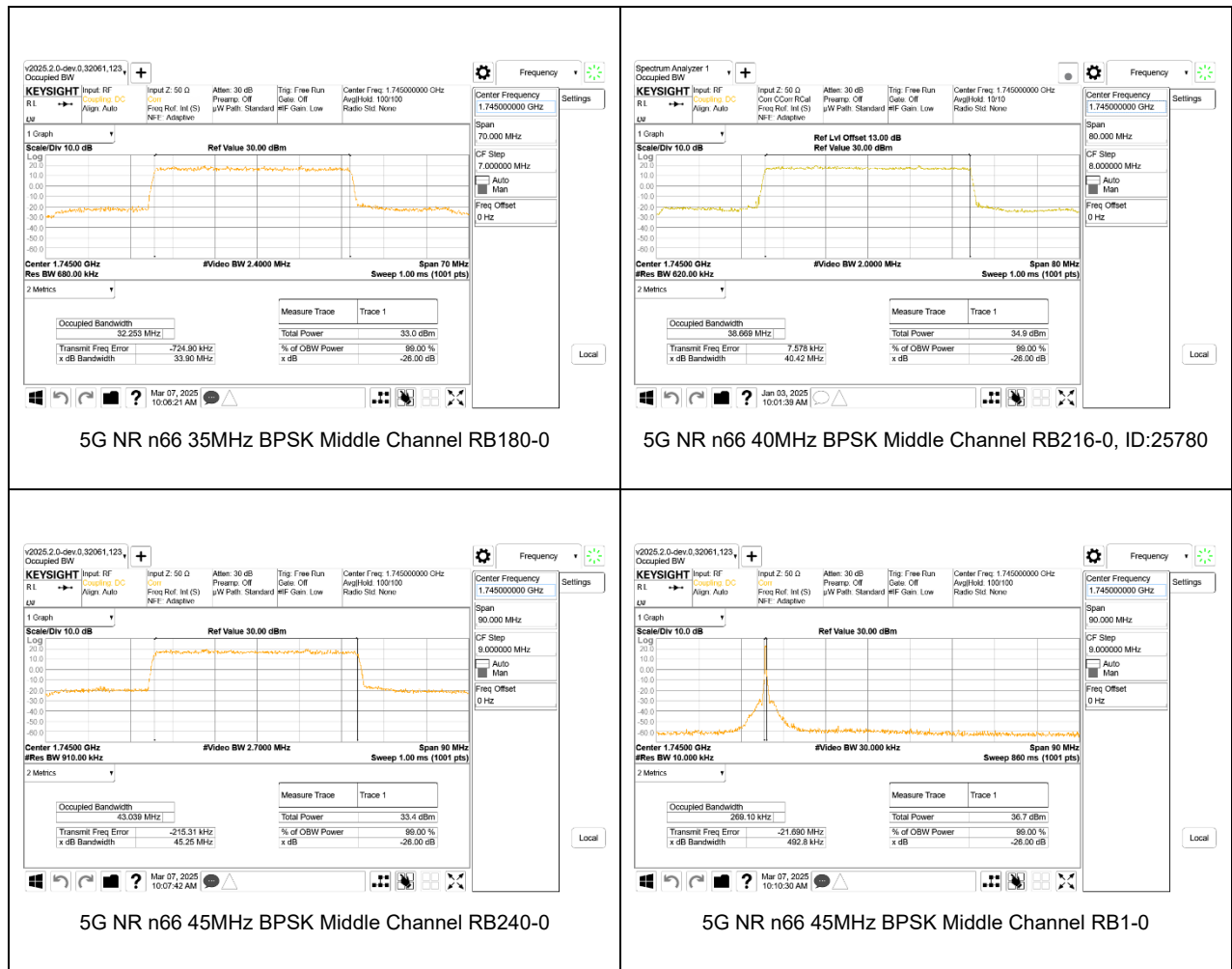
5G NR n66 20MHz BPSK Middle Channel RB100-0, ID:25780



5G NR n66 25MHz BPSK Middle Channel RB128-0, ID:25780



5G NR n66 30MHz BPSK Middle Channel RB160-0, ID:25780



9.2. EMISSION MASK AND ADJACENT CHANNEL POWER

LIMITS

FCC: §27.53(h)

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.

ISED: RSS139§5.6

Unwanted emissions shall be measured in terms of average values.

For all equipment, the TRP or total conducted power (sum of conducted power across all antenna connectors) of the unwanted emissions outside the frequency block or frequency block group shall not exceed the limits shown in table 6.

Table 6: Unwanted emission limits	
Offset from the edge of the frequency block or frequency block group	Unwanted emission limits
≤1 MHz	-13 dBm/(1% of B*)
>1 MHz	-13 dBm/MHz

*B is the frequency block or frequency block group.

TEST PROCEDURE

For Spectrum Emission Mask plots, the spectrum analyzer is configured to sweep with a moving integration window, the width of which can be adjusted to different sizes across the sweep. The window width is configured to be greater than or equal to the required reference bandwidth. The center frequencies of the integration window for the different integration windows was set such that the upper and lower edges of the windows are aligned with the transition points in the reference bandwidths. This is achieved by setting the start / stop frequencies of the window with an offset equal to the reference bandwidth / 2 from the transition point.

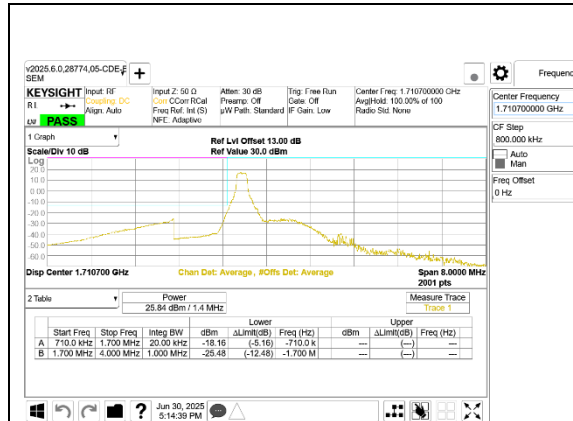
The transmitter output was connected to a base station simulator and configured to operate at maximum power. The band edge emissions were measured at the required operating frequencies in each band on the Spectrum Analyzer.

For each band edge measurement:

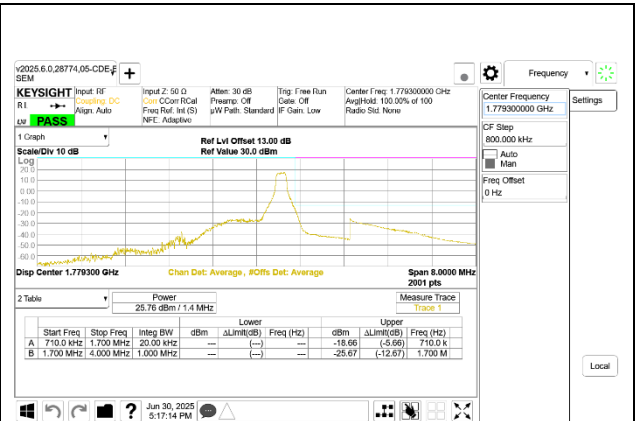
1. Set the spectrum analyzer span to include the block edge frequency.
2. Set a marker to point the corresponding band edge frequency in each test case.
3. Set display line at -13 dBm
4. Set resolution bandwidth to at least 1% of emission bandwidth.

RESULTS

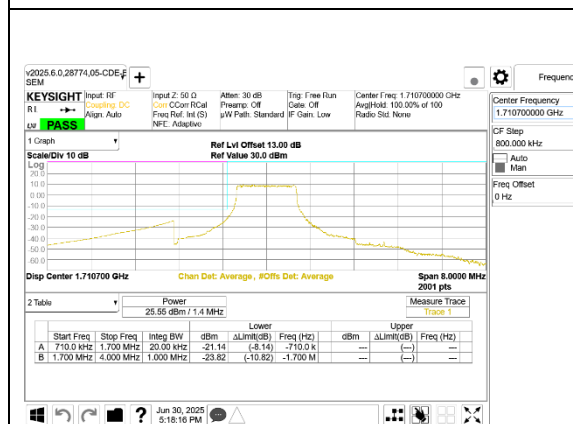
9.2.1. LTE BAND 66



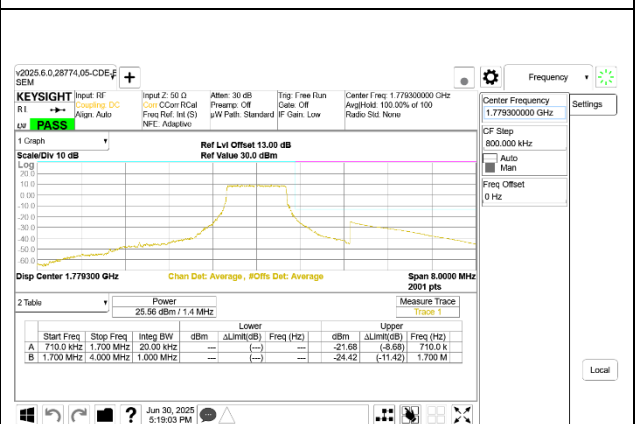
LTE B66 1.4MHz QPSK Low Channel RB1-0



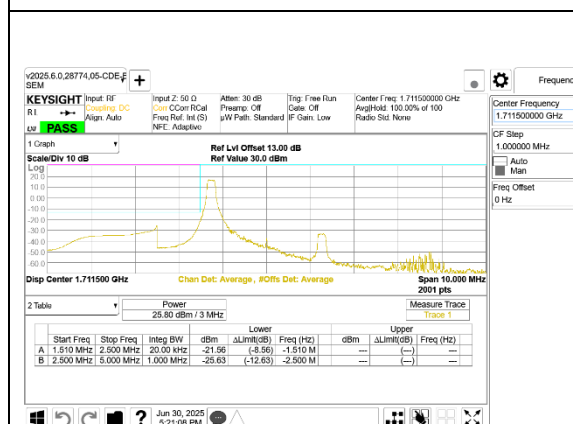
LTE B66 1.4MHz QPSK High Channel RB1-5



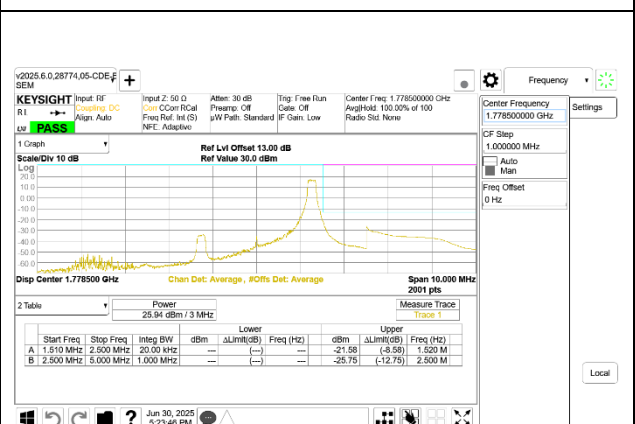
LTE B66 1.4MHz QPSK Low Channel RB6-0



LTE B66 1.4MHz QPSK High Channel RB6-0



LTE B66 3MHz QPSK Low Channel RB1-0



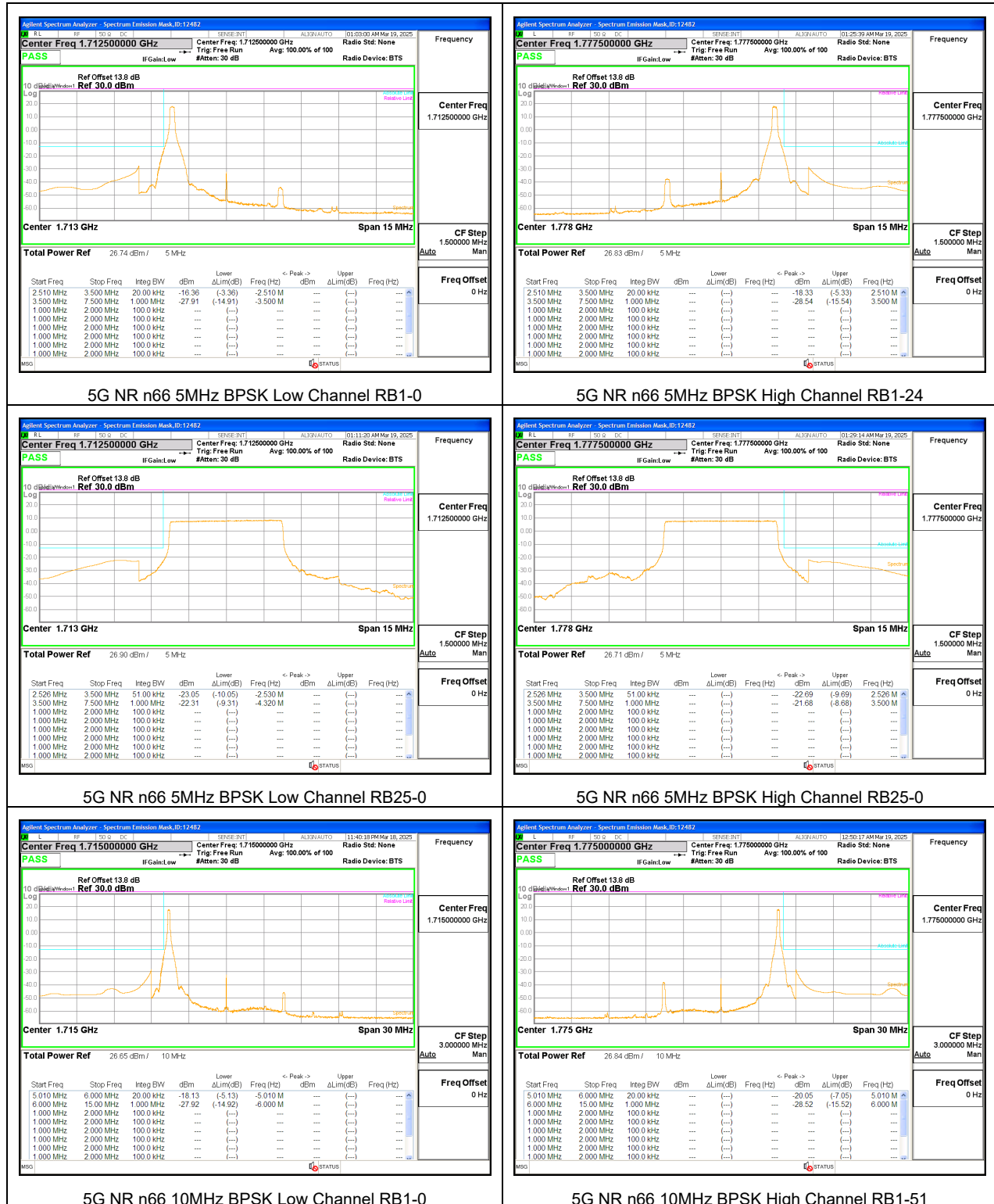
LTE B66 3MHz QPSK Low Channel RB1-14

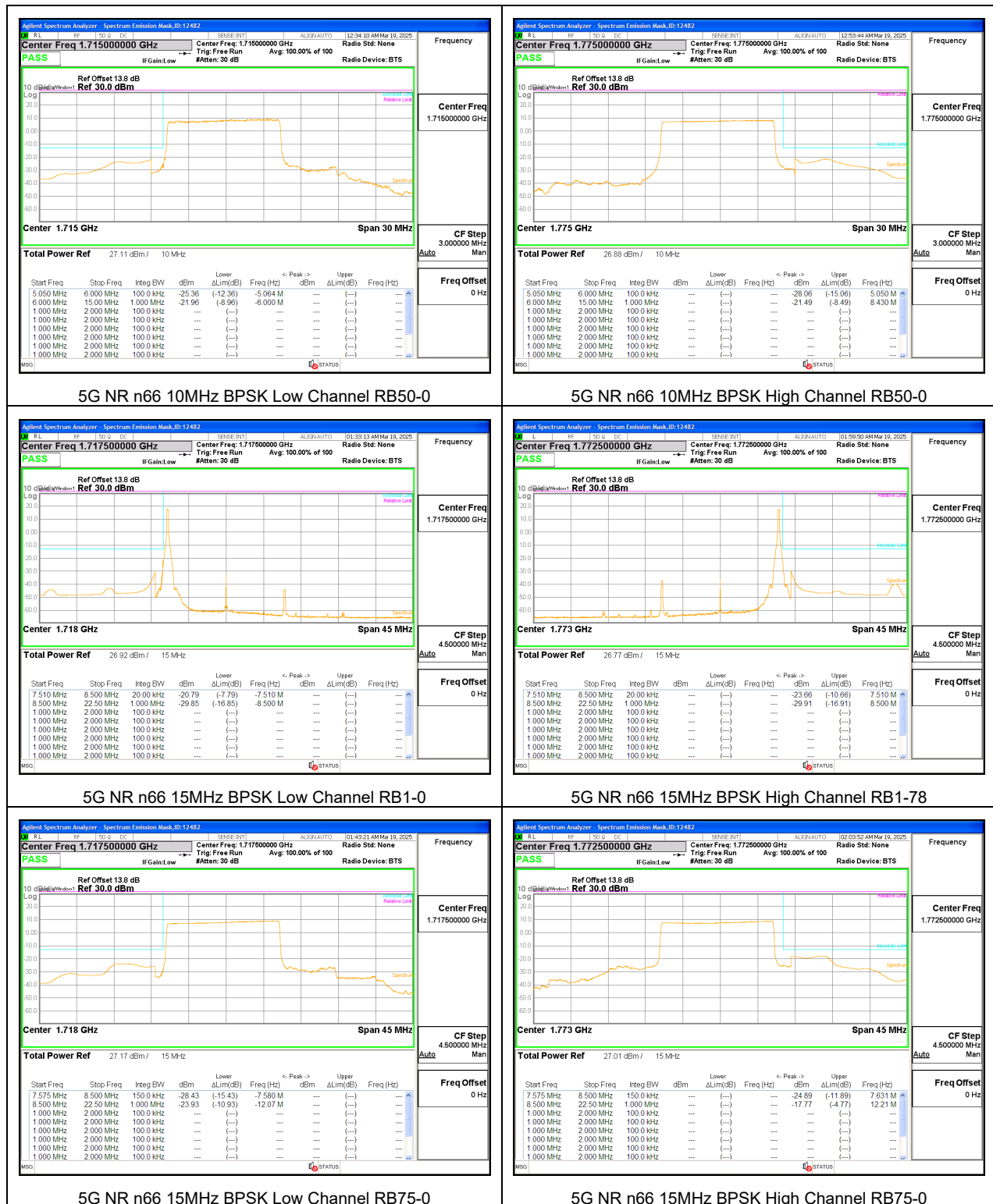


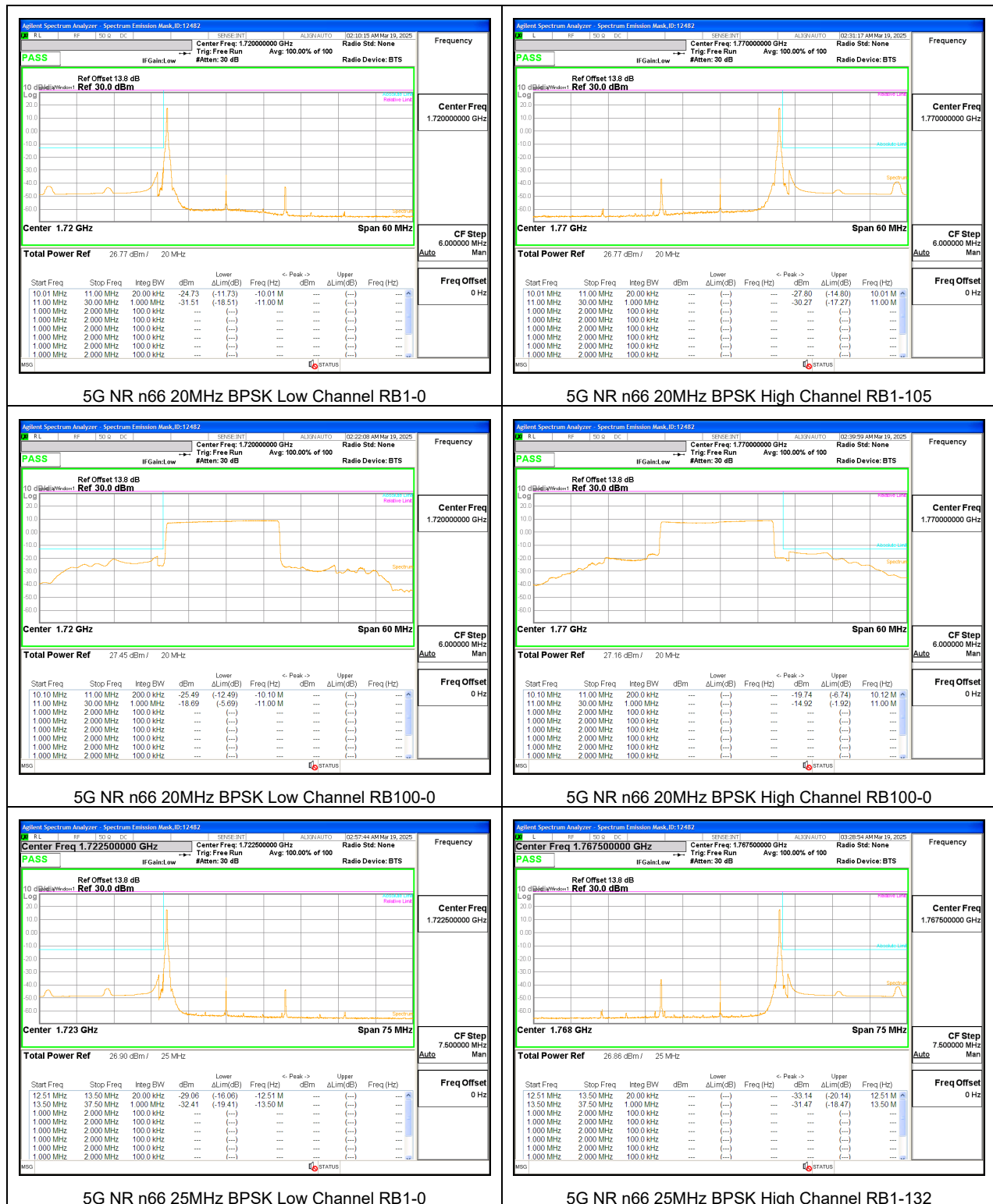


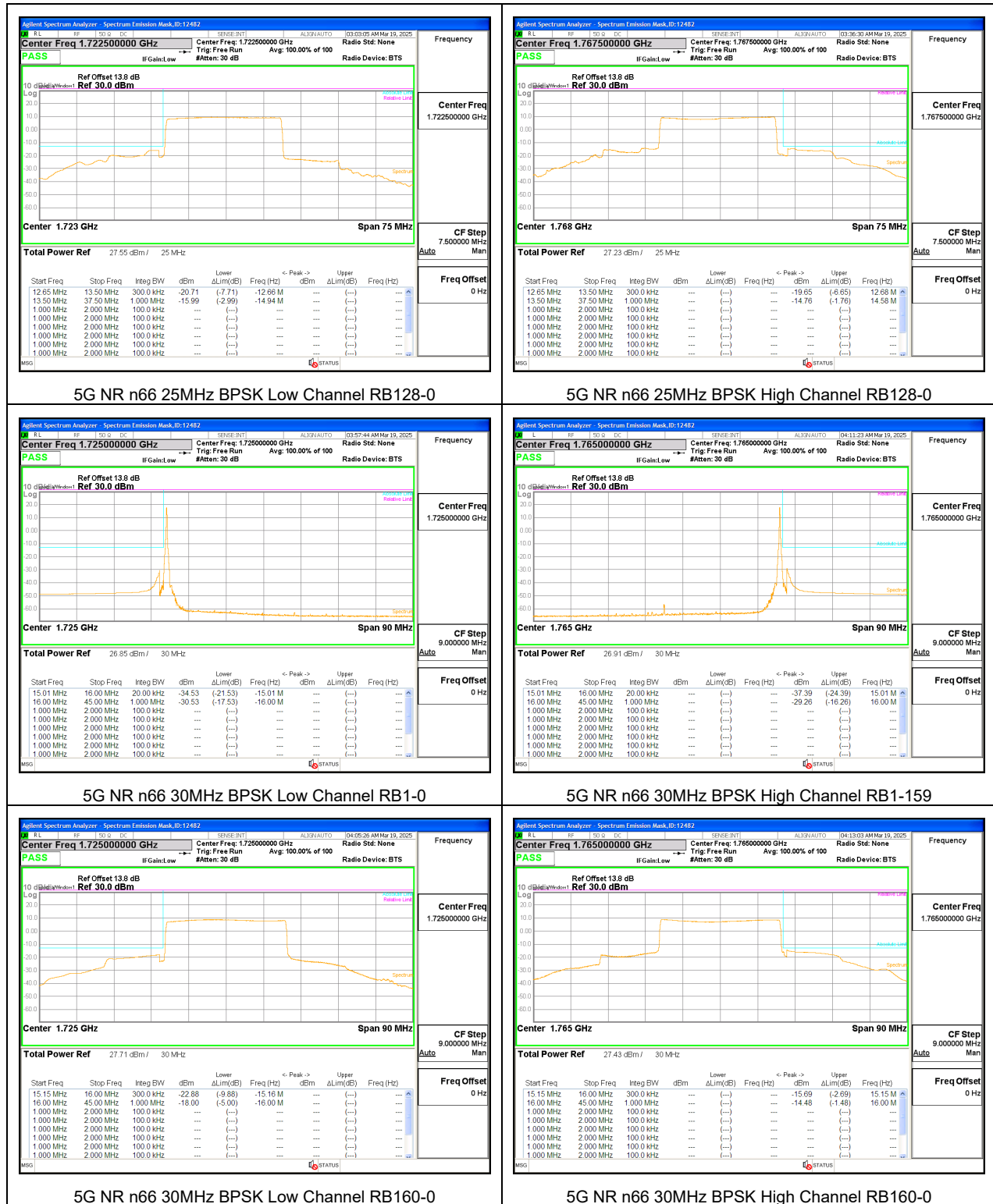


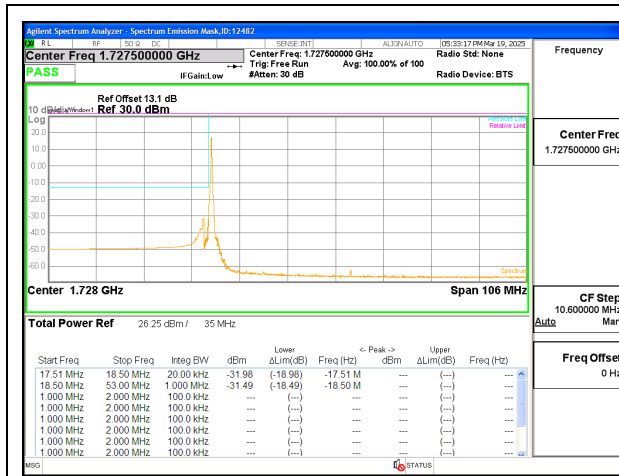
9.2.2. 5G NR n66







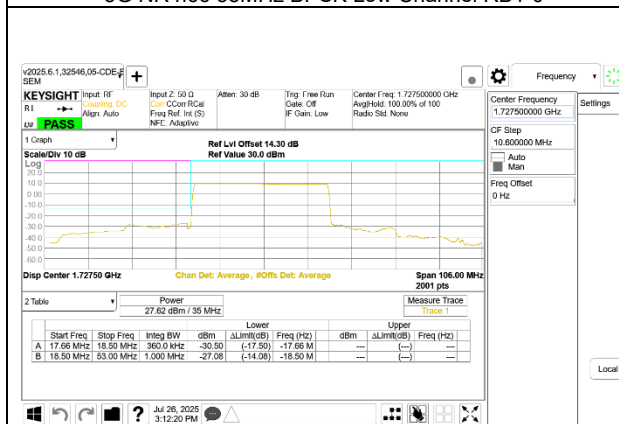




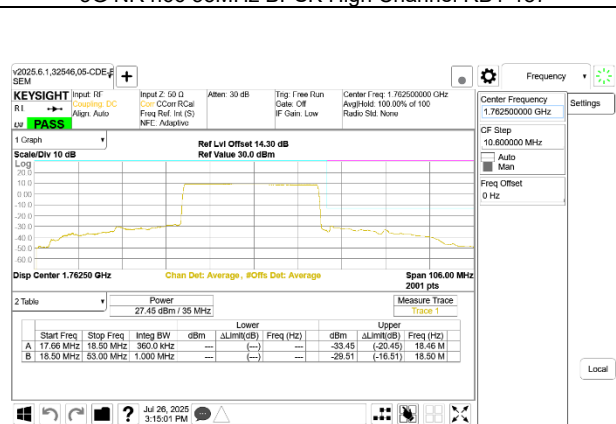
5G NR n66 35MHz BPSK Low Channel RB1-0



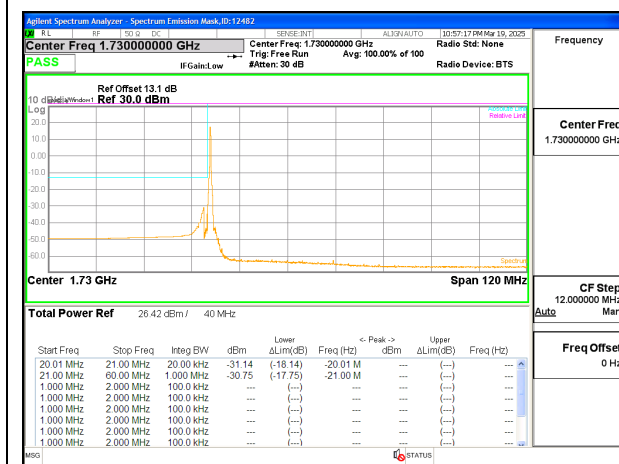
5G NR n66 35MHz BPSK High Channel RB1-187



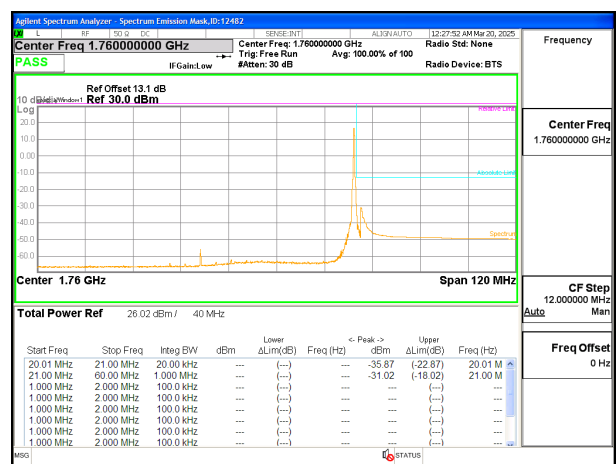
5G NR n66 35MHz BPSK Low Channel RB180-0



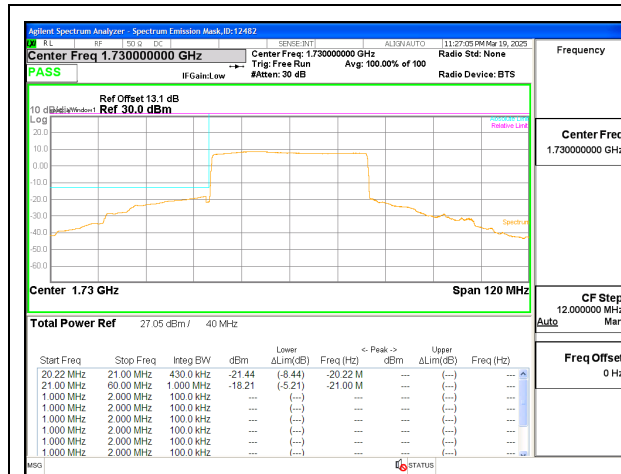
5G NR n66 35MHz BPSK High Channel RB180-0



5G NR n66 40MHz BPSK Low Channel RB1-0



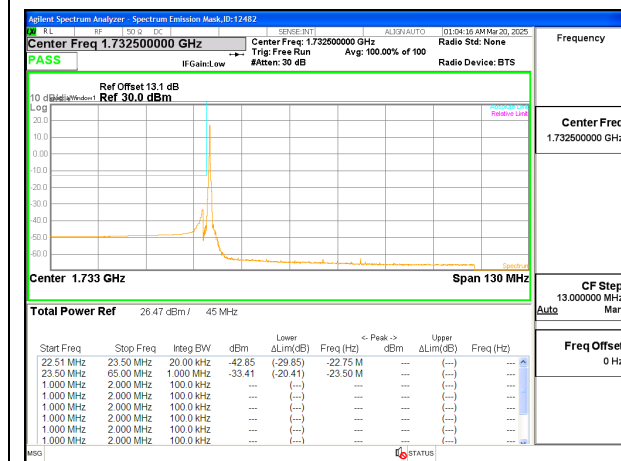
5G NR n66 40MHz BPSK High Channel RB1-215



5G NR n66 40MHz BPSK Low Channel RB216-0



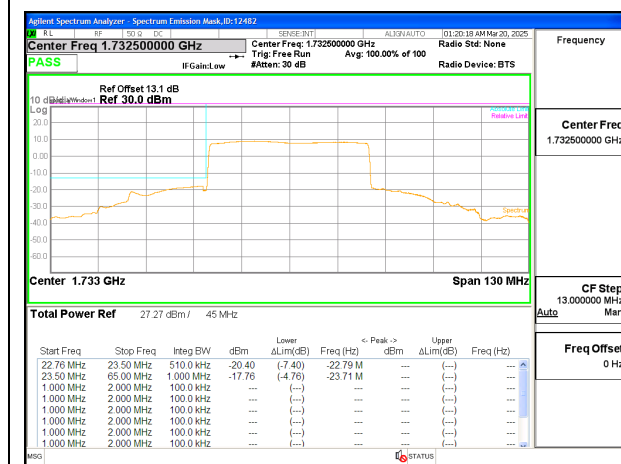
5G NR n66 40MHz BPSK High Channel RB216-0



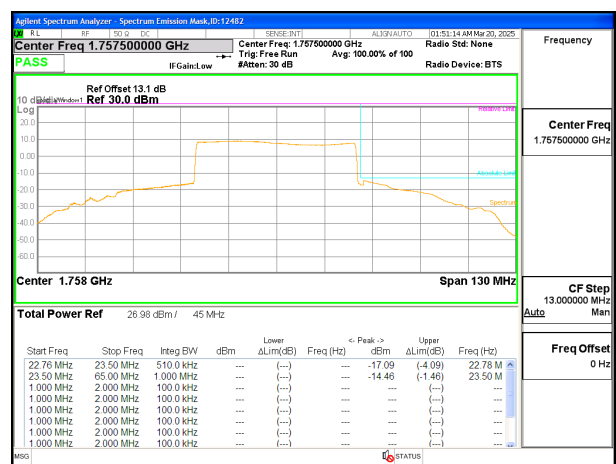
5G NR n66 45MHz BPSK Low Channel RB1-0



5G NR n66 45MHz BPSK High Channel RB1-241



5G NR n66 45MHz BPSK Low Channel RB240-0



5G NR n66 45MHz BPSK High Channel RB240-0

9.3. OUT OF BAND EMISSIONS

LIMITS

FCC: §27.53 (h)

The minimum permissible attenuation level of any spurious emissions is $43 + 10 \log (P)$ dB where transmitting power (P) in Watts.

ISED: RSS139§5.6

The minimum permissible attenuation level of any spurious emissions is $43 + 10 \log (P)$ dB where transmitting power (P) in Watts.

TEST PROCEDURE

The RF output of the transmitter was connected to a spectrum analyzer through a calibrated coaxial cable. Sufficient scans were taken to show the out-of-band Emissions, if any, up to 10th harmonic. Multiple sweeps were recorded in maximum hold mode using a peak detector to ensure that the worst-case emissions were caught.

For each out of band emissions measurement:

- Set display line at -13 dBm
- Set RBW & VBW to 100 kHz for the measurement below 1 GHz, and 1 MHz for the measurement above 1 GHz.
(NOTE: Worst case set RBW/VBW to 1MHz/3MHz)

RESULTS

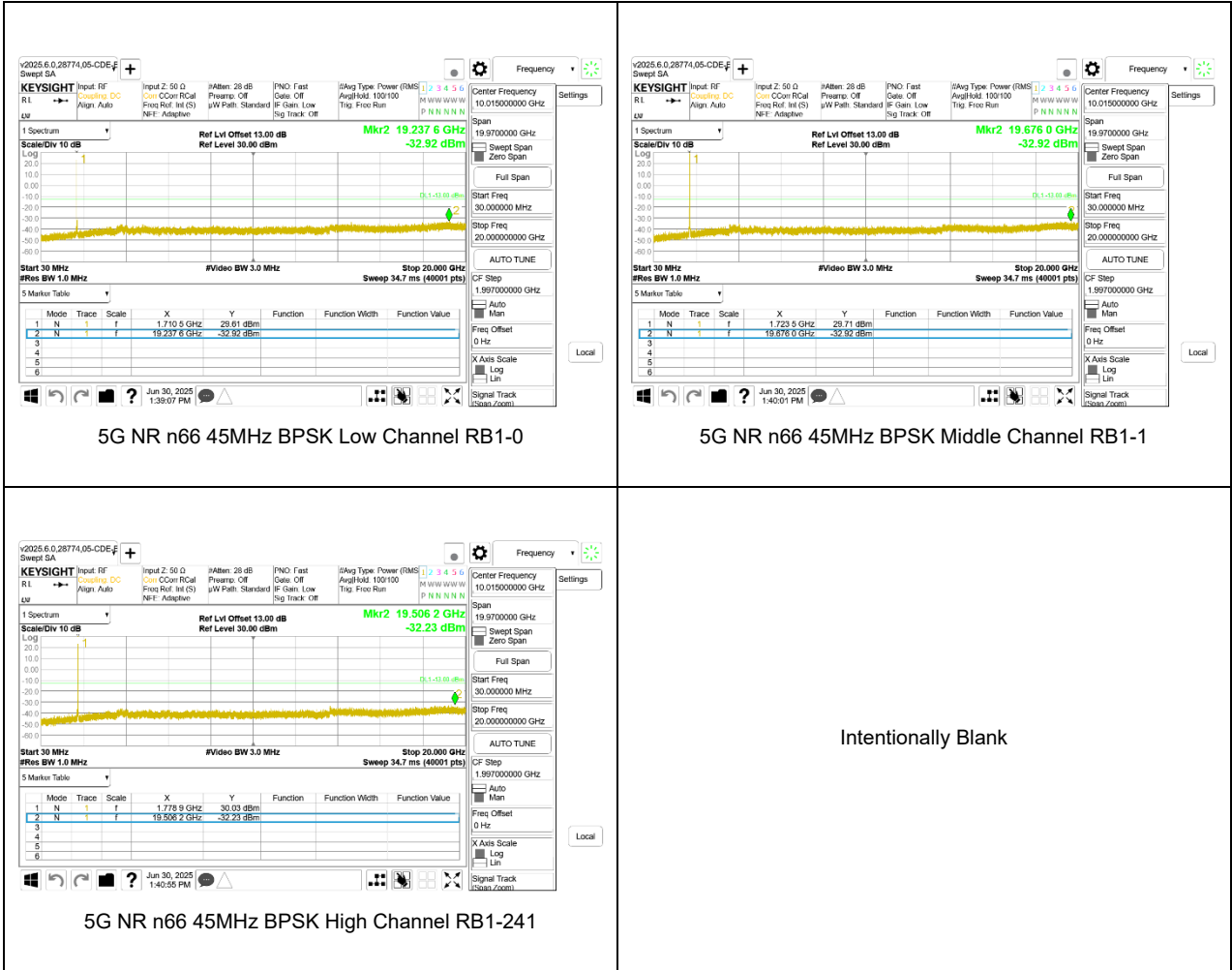
QPSK with 1RB is the highest power to all bandwidth. 1RB has the same frequency and power to all bandwidth. Therefore, QPSK with 1RB and wider bandwidths results are reported as worst case for LTE bands.

BPSK with 1RB is the highest power to all bandwidth. 1RB has the same frequency and power to all bandwidth. Therefore, BPSK with 1RB and wider bandwidths results are reported as worst case for 5G NRs.

9.3.1. LTE BAND 66



9.3.2. 5G NR n66



9.4. FREQUENCY STABILITY

LIMITS

FCC: §27.54

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

ISED: RSS139§5.4

The frequency stability shall be sufficient to ensure that the occupied bandwidth stays within the operating frequency block or frequency block group when tested to the temperature and supply voltage variations specified in RSS-Gen.

TEST PROCEDURE

Use base station simulator with Frequency Error measurement capability.

- Temp. = -30°C to +50°C
- Voltage = (85% - 115%)
Low voltage, 3.23VDC, Normal, 3.8VDC and High voltage, 4.37VDC.
End Voltage, 3.2VDC.

Frequency Stability vs Temperature:

The EUT is placed inside a temperature chamber. The temperature is set to 20°C and allowed to stabilize. After sufficient soak time, the transmitting frequency error is measured. The temperature is increased by 10 degrees, allowed to stabilize and soak, and then the measurement is repeated. This is repeated until +50°C is reached.

Frequency Stability vs Voltage:

The peak frequency error is recorded (worst-case).

RESULTS

See the following pages.

9.4.1. LTE BAND 66 (QPSK 20MHz BANDWIDTH)

Test Engineer ID:	32546	Test Date:	2025-03-04
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Band	66	Frequency Range		Frequency Error Reading (Hz)	Limit	
Condition		1710	1780			
		Freq Reading @ Low End (MHz)	Freq Reading @ High End (MHz)		Frequency Stability (ppm)	Within Authorized Frequency Block (Hz)
Temperature	Voltage					
Normal (20°C)	Normal	1711.0595	1778.9372			
Extreme (50°C)		1711.0595	1778.9372	-4.8	-0.003	Yes
Extreme (40°C)		1711.0595	1778.9372	-5.1	-0.003	Yes
Extreme (30°C)		1711.0596	1778.9372	4.7	0.003	Yes
Extreme (10°C)		1711.0596	1778.9372	5.0	0.003	Yes
Extreme (0°C)		1711.0595	1778.9372	-4.7	-0.003	Yes
Extreme (-10°C)		1711.0596	1778.9372	4.7	0.003	Yes
Extreme (-20°C)		1711.0596	1778.9372	5.1	0.003	Yes
Extreme (-30°C)		1711.0596	1778.9372	6.1	0.004	Yes
20°C	15%	1711.0596	1778.9372	5.3	0.003	Yes
	-15%	1711.0595	1778.9372	-5.1	-0.003	Yes
	End Point Voltage	1711.0596	1778.9372	4.8	0.003	Yes

9.4.2. 5G NR n66 (BPSK 45MHz BANDWIDTH)

Test Engineer ID:	32546	Test Date:	2025-03-26
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Band	66	Frequency Range		Frequency Error Reading (Hz)	Limit	
Condition		1710	1780			
		Freq Reading @ Low End (MHz)	Freq Reading @ High End (MHz)		Frequency Stability (ppm)	Within Authorized Frequency Block (Hz)
Temperature	Voltage					
Normal (20°C)	Normal	1710.8419	1778.7641			
Extreme (50°C)		1710.8419	1778.7641	-6.3	-0.004	Yes
Extreme (40°C)		1710.8419	1778.7641	-6.7	-0.004	Yes
Extreme (30°C)		1710.8419	1778.7641	-6.2	-0.004	Yes
Extreme (10°C)		1710.8419	1778.7641	-6.5	-0.004	Yes
Extreme (0°C)		1710.8419	1778.7641	-8.5	-0.005	Yes
Extreme (-10°C)		1710.8419	1778.7641	-7.4	-0.004	Yes
Extreme (-20°C)		1710.8419	1778.7641	-7.0	-0.004	Yes
Extreme (-30°C)		1710.8419	1778.7641	-7.8	-0.004	Yes
20°C	15%	1710.8419	1778.7641	-8.2	-0.005	Yes
	-15%	1710.8419	1778.7641	-6.7	-0.004	Yes
	End Point Voltage	1710.8419	1778.7641	-7.2	-0.004	Yes

9.5. PEAK-TO-AVERAGE POWER RATIO

LIMIT

FCC: §27.50 (d) (5)

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.

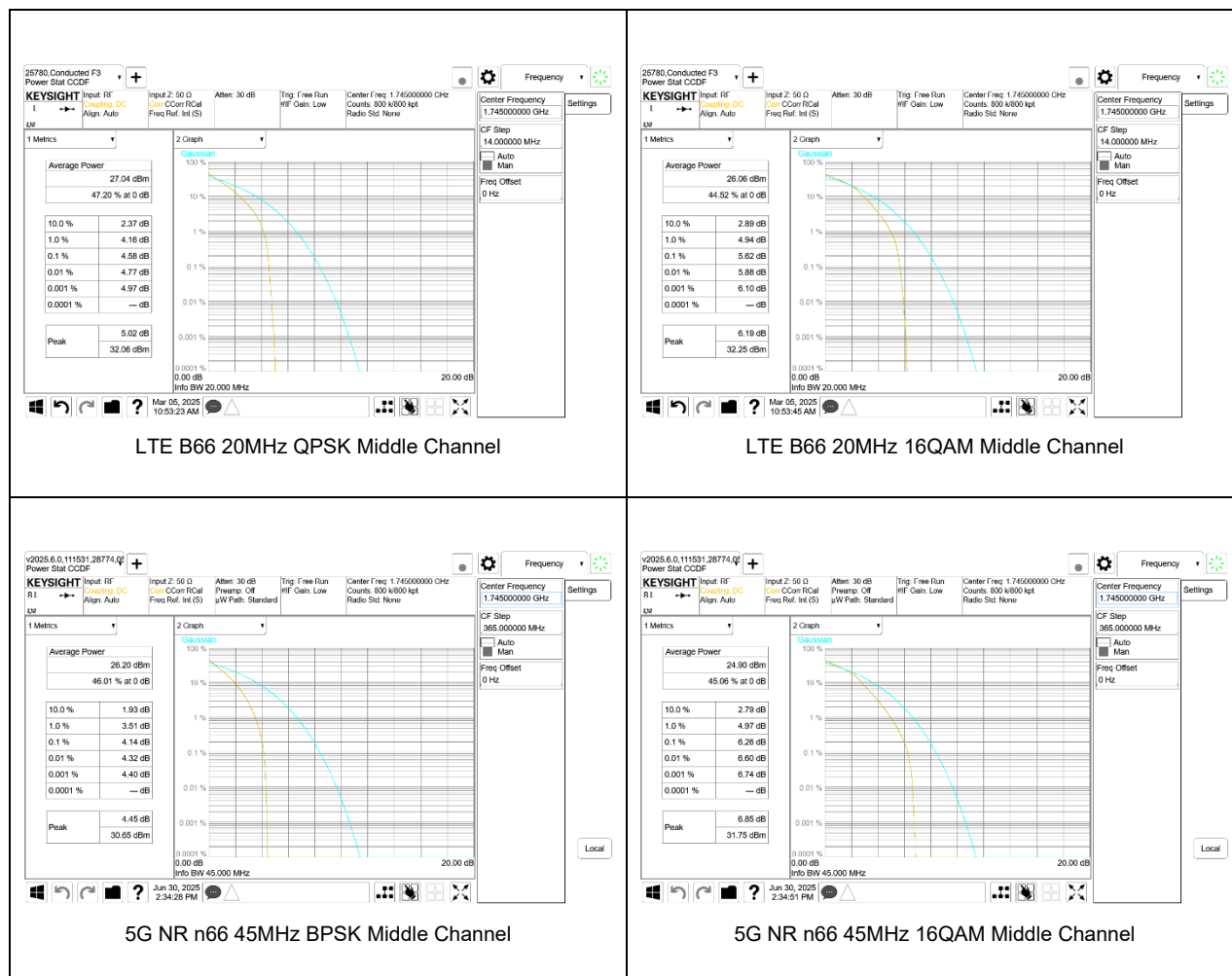
ISED: RSS139§5.5

In addition, the peak to average power ratio (PAPR) of the equipment shall not exceed 13 dB for more than 0.1% of the time, using a signal that corresponds to the highest PAPR during periods of continuous transmission.

RESULT

Antenna 1 was used to measure as the worst case; full resource block (FRB) for each bandwidth was used to measure as the worst case. The results from all CCDF measurements are passed with 13dB peak-to-average power ratio criteria.

Example Plots: FULL RB



9.5.1. LTE BAND 66

Test Engineer ID:	25780	Test Date:	2025-03-04
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Band	Bandwidth (MHz)	Frequency (MHz)	RB Allocation	RB OffSet	Modulation	Conducted Power (dBm)		Peak-to-Average Power Ratio (dB)
						Peak	Average	
LTE Band 66	1.4MHz	1745.0	6	0	QPSK	31.63	26.95	4.68
					16QAM	31.99	26.11	5.88
	3MHz		15	0	QPSK	31.83	27.00	4.83
					16QAM	31.89	26.03	5.86
	5MHz		25	0	QPSK	31.92	27.00	4.92
					16QAM	32.05	26.02	6.03
	10MHz		50	0	QPSK	31.96	26.97	4.99
					16QAM	32.26	26.00	6.26
	15MHz		75	0	QPSK	32.09	27.01	5.08
					16QAM	32.13	26.04	6.09
	20MHz		100	0	QPSK	32.06	27.04	5.02
					16QAM	32.25	26.06	6.19
Duty Cycle Correction Factor (dB) =			0.00					
Peak-to-Average Power Ratio= Peak Reading - Average Reading - Duty Cycle Correction Factor								

9.5.2. 5G NR n66

Test Engineer ID:	111531	Test Date:	2025-06-29
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Band	Bandwidth (MHz)	Frequency (MHz)	RB Allocation	RB OffSet	Modulation	Conducted Power (dBm)		Peak-to-Average Power Ratio (dB)
						Peak	Average	
5G NR n66	5MHz	1745.0	25	0	BPSK	30.49	26.23	4.26
					16QAM	31.69	24.98	6.71
	10MHz		50	0	BPSK	30.56	26.30	4.26
					16QAM	31.67	24.99	6.68
	15MHz		75	0	BPSK	30.36	25.99	4.37
					16QAM	31.91	25.03	6.88
	20MHz		100	0	BPSK	30.73	26.36	4.37
					16QAM	31.93	25.02	6.91
	25MHz		128	0	BPSK	30.68	26.21	4.47
					16QAM	31.94	24.94	7.00
	30MHz		160	0	BPSK	30.43	26.05	4.38
					16QAM	31.65	24.81	6.84
	35MHz		180	0	BPSK	30.45	26.04	4.41
					16QAM	31.77	24.82	6.95
	40MHz		216	0	BPSK	30.71	26.13	4.58
					16QAM	31.52	24.78	6.74
	45MHz		240	0	BPSK	30.65	26.20	4.45
					16QAM	31.75	24.90	6.85
Duty Cycle Correction Factor (dB) =			0.00					
Peak-to-Average Power Ratio= Peak Reading - Average Reading - Duty Cycle Correction Factor								

10. RADIATED TEST RESULTS

LIMITS

FCC: §27.53 (h)

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.

ISED: RSS139§5.6

Unwanted emissions shall be measured in terms of average values.

For all equipment, the TRP or total conducted power (sum of conducted power across all antenna connectors) of the unwanted emissions outside the frequency block or frequency block group shall not exceed the limits shown in table 4.

Table 6: Unwanted emission limits	
Offset from the edge of the frequency block or frequency block group	Unwanted emission limits
≤1 MHz	-13 dBm/(1% of B*)
>1 MHz	-13 dBm/MHz

*B is the frequency block or frequency block group.

Radiated measurement using the Field Strength Method

Using the test configuration shown in Figure 6 below, the radiated emissions is measured directly from the EUT and convert the measured field strength or received power to ERP or EIRP, as required, for comparison to the applicable limits. As stated in 5.5.1 of ANSI C63.26-2015, the field strength measurement method using a test site validated to the requirements of ANSI C63.4 is an alternative to the substitution measurement.

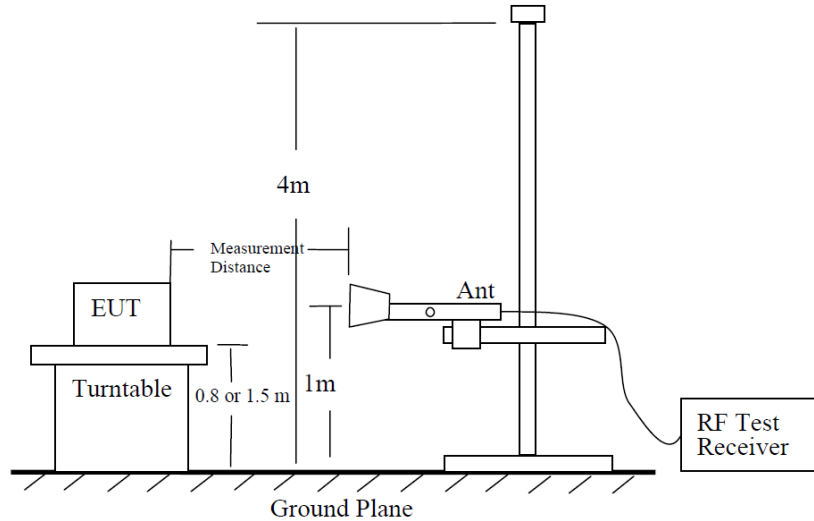


Figure 6 —Test site-up for radiated ERP and/or EIRP measurements

Radiated Power Measurement Calculation According to ANSI C63.26-2015

- a) $E \text{ (dB}\mu\text{V/m)} = \text{Measured amplitude level (dB}\mu\text{V)} + \text{Cable Loss (dB)} + \text{Antenna Factor (dB/m)}.$
- b) $E \text{ (dB}\mu\text{V/m)} = \text{Measured amplitude level (dBm)} + 107 + \text{Cable Loss (dB)} + \text{Antenna Factor (dB/m)}.$
- c) $E \text{ (dB}\mu\text{V/m)} = \text{EIRP (dBm)} - 20\log(D) + 104.8;$ where D is the measurement distance (in the far field region) in m.
- d) $\text{EIRP (dBm)} = E \text{ (dB}\mu\text{V/m)} + 20\log(D) - 104.8;$ where D is the measurement distance (in the far field region) in m.

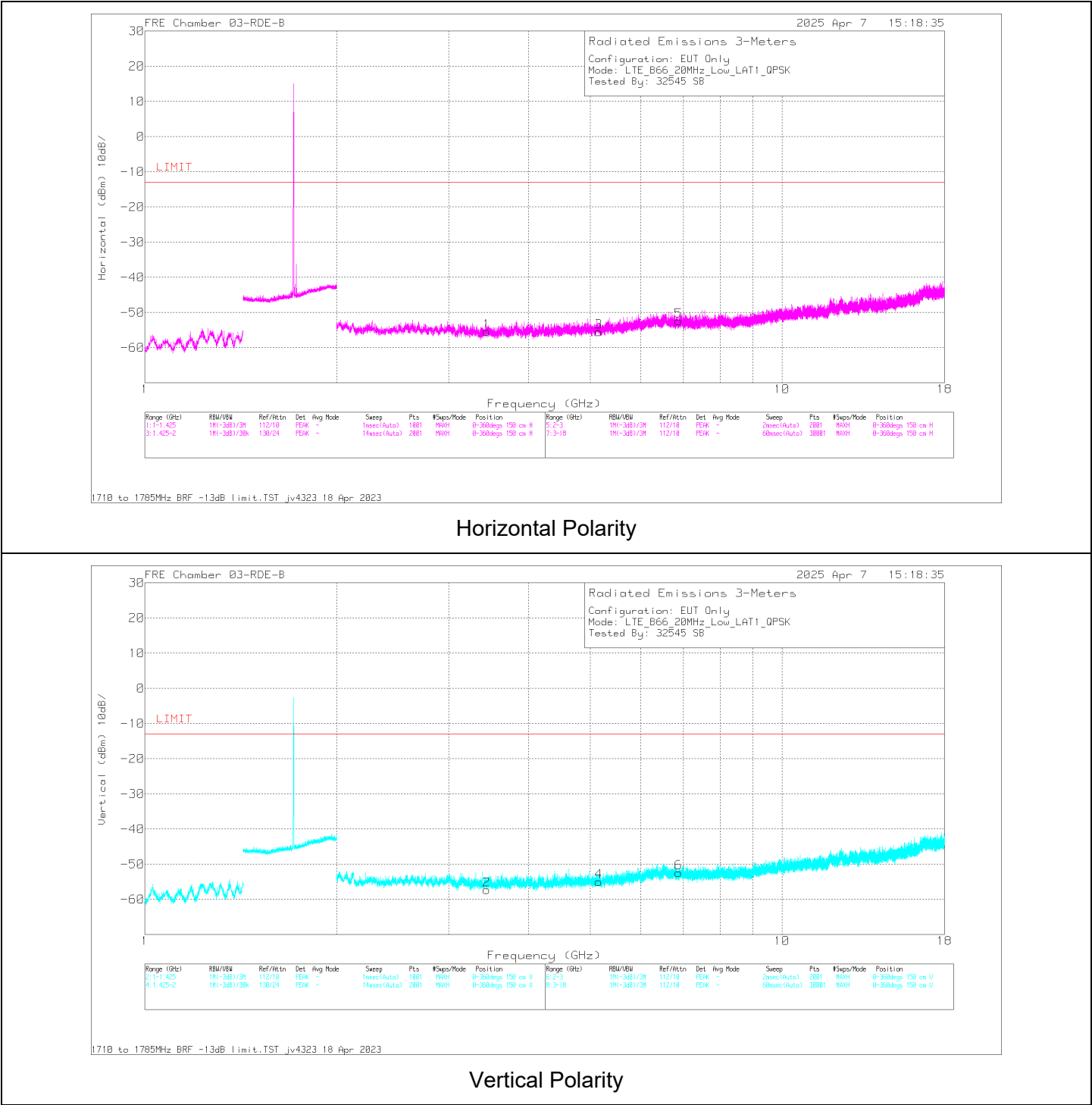
So, from d)

The measuring distance is usually at 3m, then $20 \cdot \log(3) = 9.5424$

Then, $\text{EIRP (dBm)} = E \text{ (dB}\mu\text{V/m)} + 9.5424 - 104.8 = E \text{ (dB}\mu\text{V/m)} - 95.2576$

Note: Confidence check of each chamber is performed daily to see if any degradation from expected/normal reading reference data. Ambient check of each chamber is performed monthly.

Example Plot



Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	223084 ACF (dB/m)	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	LIMIT	Margin (dB)	Polarity
1	3.440000	54.48	Pk	32.8	-95.2	-47.50	-55.42	-13	-42.42	H
2	3.440000	52.59	Pk	32.8	-95.2	-47.50	-57.31	-13	-44.31	V
3	5.161000	54.70	Pk	34.1	-95.2	-49.10	-55.50	-13	-42.50	H
4	5.161000	55.24	Pk	34.1	-95.2	-49.10	-54.96	-13	-41.96	V
5	6.880000	54.20	Pk	35.6	-95.2	-47.00	-52.40	-13	-39.40	H
6	6.880000	54.20	Pk	35.6	-95.2	-47.00	-52.40	-13	-39.40	V

10.1. FIELD STRENGTH OF SPURIOUS RADIATION, ABOVE 1GHz

TEST PROCEDURE

KDB 971168 D01 /D02

All tests above 1GHz were done with a Resolution Bandwidth of 1MHz, and a Video Bandwidth of 3MHz

RESULTS

10.1.1. LTE BAND 66

LTE BAND 66 (QPSK 20.0MHZ BANDWIDTH, ANT 1)

Project #:	15496277
Date:	2025-04-07
Test Engineer:	32545
Configuration:	EUT Only
Mode	LTE B66 20MHz QPSK
Chamber #:	03-RDE-B

Frequency (GHz)	Meter Reading (dBuV)	Det	223084 ACF (dB/m)	EIRP CF	Amp/Cbl (dB)	Corrected Reading (dBm)	LIMIT	Margin (dB)	Polarity
Low Channel, 1720MHz									
3.440000	54.48	Pk	32.8	-95.2	-47.50	-55.42	-13	-42.42	H
3.440000	52.59	Pk	32.8	-95.2	-47.50	-57.31	-13	-44.31	V
5.161000	54.70	Pk	34.1	-95.2	-49.10	-55.50	-13	-42.50	H
5.161000	55.24	Pk	34.1	-95.2	-49.10	-54.96	-13	-41.96	V
6.880000	54.20	Pk	35.6	-95.2	-47.00	-52.40	-13	-39.40	H
6.880000	54.20	Pk	35.6	-95.2	-47.00	-52.40	-13	-39.40	V
Mid Channel, 1745MHz									
3.490500	54.85	Pk	32.7	-95.2	-46.75	-54.40	-13	-41.40	H
3.490500	54.83	Pk	32.7	-95.2	-46.75	-54.42	-13	-41.42	V
5.235500	53.98	Pk	34.2	-95.2	-48.65	-55.67	-13	-42.67	H
5.235500	54.24	Pk	34.2	-95.2	-48.65	-55.41	-13	-42.41	V
6.980500	55.40	Pk	35.6	-95.2	-46.55	-50.75	-13	-37.75	H
6.980500	52.97	Pk	35.6	-95.2	-46.55	-53.18	-13	-40.18	V
High Channel, 1770MHz									
3.541000	53.80	Pk	32.8	-95.2	-46.80	-55.40	-13	-42.40	H
3.541000	53.36	Pk	32.8	-95.2	-46.80	-55.84	-13	-42.84	V
5.310000	55.68	Pk	34.2	-95.2	-48.70	-54.02	-13	-41.02	H
5.310000	55.85	Pk	34.2	-95.2	-48.70	-53.85	-13	-40.85	V
7.081000	53.74	Pk	35.7	-95.2	-47.50	-53.26	-13	-40.26	H
7.081000	54.34	Pk	35.7	-95.2	-47.50	-52.66	-13	-39.66	V

LTE BAND 66 (QPSK 20.0MHZ BANDWIDTH, ANT 2)

Project #:	15496277
Date:	2025-07-23
Test Engineer:	32934
Configuration:	EUT Only
Mode	LTE B66 20MHz QPSK
Chamber #:	03-RDE-B

Frequency (GHz)	Meter Reading (dBUV)	Det	223084 ACF (dB/m)	EIRP CF	Amp/Cbl (dB)	Corrected Reading (dBm)	LIMIT	Margin (dB)	Polarity
Low Channel, 1720MHz									
3.435000	56.28	Pk	32.8	-95.2	-47.60	-53.72	-13	-40.72	V
3.442000	55.05	Pk	32.8	-95.2	-47.40	-54.75	-13	-41.75	H
5.174500	57.52	Pk	34.1	-95.2	-49.05	-52.63	-13	-39.63	H
5.174500	56.76	Pk	34.1	-95.2	-49.05	-53.39	-13	-40.39	V
6.856000	55.28	Pk	35.6	-95.2	-47.10	-51.42	-13	-38.42	V
6.882000	55.11	Pk	35.6	-95.2	-46.90	-51.39	-13	-38.39	H
Mid Channel, 1745MHz									
3.481500	55.75	Pk	32.7	-95.2	-47.05	-53.80	-13	-40.80	V
3.488500	55.33	Pk	32.7	-95.2	-46.80	-53.97	-13	-40.97	H
5.222000	55.89	Pk	34.1	-95.2	-48.80	-54.01	-13	-41.01	V
5.228500	56.55	Pk	34.1	-95.2	-48.70	-53.25	-13	-40.25	H
6.984000	55.49	Pk	35.6	-95.2	-46.60	-50.71	-13	-37.71	H
7.003000	55.81	Pk	35.6	-95.2	-46.80	-50.59	-13	-37.59	V
High Channel, 1770MHz									
3.542000	54.73	Pk	32.8	-95.2	-46.80	-54.47	-13	-41.47	H
3.538000	55.08	Pk	32.8	-95.2	-46.90	-54.22	-13	-41.22	V
5.284500	57.70	Pk	34.2	-95.2	-48.65	-51.95	-13	-38.95	V
5.299000	56.50	Pk	34.2	-95.2	-48.60	-53.10	-13	-40.10	H
7.076500	57.55	Pk	35.7	-95.2	-47.50	-49.45	-13	-36.45	H
7.084500	56.35	Pk	35.7	-95.2	-47.40	-50.55	-13	-37.55	V

LTE BAND 66 (QPSK 20.0MHZ BANDWIDTH, ANT 3)

Project #:	15496277
Date:	2025-07-23
Test Engineer:	32934
Configuration:	EUT Only
Mode	LTE B66 20MHz QPSK
Chamber #:	03-RDE-B

Frequency (GHz)	Meter Reading (dBuV)	Det	223084 ACF (dB/m)	EIRP CF	Amp/Cbl (dB)	Corrected Reading (dBm)	LIMIT	Margin (dB)	Polarity
Low Channel, 1720MHz									
3.456000	57.34	Pk	32.8	-95.2	-47.40	-52.46	-13	-39.46	H
3.458500	55.79	Pk	32.8	-95.2	-47.30	-53.91	-13	-40.91	V
5.215000	56.77	Pk	34.1	-95.2	-48.70	-53.03	-13	-40.03	V
5.239500	56.21	Pk	34.2	-95.2	-48.65	-53.44	-13	-40.44	H
6.931000	54.44	Pk	35.6	-95.2	-46.40	-51.56	-13	-38.56	V
6.967500	54.59	Pk	35.6	-95.2	-46.50	-51.51	-13	-38.51	H
Mid Channel, 1745MHz									
3.470500	56.32	Pk	32.7	-95.2	-47.25	-53.43	-13	-40.43	V
3.484000	56.71	Pk	32.7	-95.2	-46.90	-52.69	-13	-39.69	H
5.229000	56.18	Pk	34.1	-95.2	-48.70	-53.62	-13	-40.62	V
5.238000	57.21	Pk	34.2	-95.2	-48.60	-52.39	-13	-39.39	H
6.953000	54.72	Pk	35.6	-95.2	-46.50	-51.38	-13	-38.38	V
6.982000	54.52	Pk	35.6	-95.2	-46.50	-51.58	-13	-38.58	H
High Channel, 1770MHz									
3.551500	55.40	Pk	32.8	-95.2	-46.85	-53.85	-13	-40.85	H
3.539500	54.61	Pk	32.8	-95.2	-46.90	-54.69	-13	-41.69	V
5.284500	56.03	Pk	34.2	-95.2	-48.65	-53.62	-13	-40.62	V
5.312500	56.89	Pk	34.2	-95.2	-48.60	-52.71	-13	-39.71	H
7.066500	55.74	Pk	35.7	-95.2	-47.45	-51.21	-13	-38.21	V
7.070500	55.48	Pk	35.7	-95.2	-47.40	-51.42	-13	-38.42	H

LTE BAND 66 (QPSK 20.0MHZ BANDWIDTH, ANT 4)

Project #:	15496277
Date:	2025-06-14
Test Engineer:	32934
Configuration:	EUT Only
Mode	LTE B66 20MHz QPSK
Chamber #:	03-RDE-B

Frequency (GHz)	Meter Reading (dBuV)	Det	223084 ACF (dB/m)	EIRP CF	Amp/Cbl (dB)	Corrected Reading (dBm)	LIMIT	Margin (dB)	Polarity
Low Channel, 1720MHz									
3.450500	55.42	Pk	32.8	-95.2	-47.40	-54.38	-13	-41.38	V
3.453000	55.54	Pk	32.8	-95.2	-47.40	-54.26	-13	-41.26	H
5.162500	57.56	Pk	34.1	-95.2	-49.15	-52.69	-13	-39.69	H
5.165000	57.41	Pk	34.1	-95.2	-49.00	-52.69	-13	-39.69	V
6.889000	54.70	Pk	35.6	-95.2	-46.80	-51.70	-13	-38.70	H
6.897000	55.71	Pk	35.6	-95.2	-46.60	-50.49	-13	-37.49	V
Mid Channel, 1745MHz									
3.465500	56.88	Pk	32.7	-95.2	-47.25	-52.87	-13	-39.87	V
3.483500	56.17	Pk	32.7	-95.2	-46.95	-53.28	-13	-40.28	H
5.220500	57.01	Pk	34.1	-95.2	-48.80	-52.89	-13	-39.89	V
5.243000	57.11	Pk	34.2	-95.2	-48.60	-52.49	-13	-39.49	H
6.986500	55.37	Pk	35.6	-95.2	-46.60	-50.83	-13	-37.83	H
6.990000	54.40	Pk	35.6	-95.2	-46.60	-51.80	-13	-38.80	V
High Channel, 1770MHz									
3.536500	55.69	Pk	32.8	-95.2	-46.80	-53.51	-13	-40.51	H
3.521000	55.69	Pk	32.8	-95.2	-47.00	-53.71	-13	-40.71	V
5.297000	57.65	Pk	34.2	-95.2	-48.70	-52.05	-13	-39.05	V
5.301500	56.36	Pk	34.2	-95.2	-48.55	-53.19	-13	-40.19	H
7.029500	54.70	Pk	35.6	-95.2	-47.00	-51.90	-13	-38.90	V
7.068000	55.38	Pk	35.7	-95.2	-47.50	-51.62	-13	-38.62	H

10.1.2. 5G NR n66

5G NR n66 (BPSK 45.0MHZ BANDWIDTH, ANT 1)

Project #:	15496277
Date:	2025-07-10
Test Engineer:	32934
Configuration:	EUT Only
Mode	5G NR n66 45MHz BPSK
Chamber #:	03-RDE-B

Frequency (GHz)	Meter Reading (dBuV)	Det	223084 ACF (dB/m)	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	LIMIT	Margin (dB)	Polarity
Low Channel, 1732.5MHz									
3.441500	56.12	Pk	32.8	-95.2	-47.45	-53.73	-13	-40.73	V
3.472500	55.66	Pk	32.7	-95.2	-47.05	-53.89	-13	-40.89	H
5.165000	57.68	Pk	34.1	-95.2	-49.00	-52.42	-13	-39.42	V
5.180000	56.54	Pk	34.1	-95.2	-49.00	-53.56	-13	-40.56	H
6.921000	56.03	Pk	35.6	-95.2	-46.40	-49.97	-13	-36.97	H
6.947000	55.63	Pk	35.6	-95.2	-46.50	-50.47	-13	-37.47	V
Mid Channel, 1745MHz									
3.478500	55.94	Pk	32.7	-95.2	-47.05	-53.61	-13	-40.61	H
3.481000	56.69	Pk	32.7	-95.2	-47.10	-52.91	-13	-39.91	V
5.225000	57.56	Pk	34.1	-95.2	-48.60	-52.14	-13	-39.14	V
5.242500	56.71	Pk	34.2	-95.2	-48.55	-52.84	-13	-39.84	H
6.965000	56.36	Pk	35.6	-95.2	-46.40	-49.64	-13	-36.64	V
6.972000	54.37	Pk	35.6	-95.2	-46.50	-51.73	-13	-38.73	H
High Channel, 1757.5MHz									
3.531000	55.35	Pk	32.8	-95.2	-46.90	-53.95	-13	-40.95	H
3.528000	55.93	Pk	32.8	-95.2	-46.90	-53.37	-13	-40.37	V
5.275000	56.26	Pk	34.2	-95.2	-48.80	-53.54	-13	-40.54	V
5.280000	56.28	Pk	34.2	-95.2	-48.80	-53.52	-13	-40.52	H
7.028500	56.73	Pk	35.6	-95.2	-47.00	-49.87	-13	-36.87	H
7.056000	55.96	Pk	35.6	-95.2	-47.30	-50.94	-13	-37.94	V

5G NR n66 (BPSK 45.0MHZ BANDWIDTH, ANT 2)

Project #:	15496277
Date:	2025-04-04
Test Engineer:	32934
Configuration:	EUT Only
Mode	5G NR n66 45MHz BPSK
Chamber #:	03-RDE-B

Frequency (GHz)	Meter Reading (dBuV)	Det	223084 ACF (dB/m)	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	LIMIT	Margin (dB)	Polarity
Low Channel, 1732.5MHz									
3.412500	55.25	Pk	32.8	-95.2	-47.55	-54.70	-13	-41.70	V
3.448500	56.00	Pk	32.8	-95.2	-47.45	-53.85	-13	-40.85	H
5.161500	57.98	Pk	34.1	-95.2	-49.10	-52.22	-13	-39.22	H
5.186000	57.31	Pk	34	-95.2	-49.00	-52.89	-13	-39.89	V
6.918500	54.64	Pk	35.6	-95.2	-46.40	-51.36	-13	-38.36	V
6.924000	55.09	Pk	35.6	-95.2	-46.40	-50.91	-13	-37.91	H
Mid Channel, 1745MHz									
3.438500	57.66	Pk	32.8	-95.2	-47.45	-52.19	-13	-39.19	V
3.499000	55.36	Pk	32.7	-95.2	-46.90	-54.04	-13	-41.04	H
5.224000	56.80	Pk	34.1	-95.2	-48.70	-53.00	-13	-40.00	V
5.229500	56.21	Pk	34.1	-95.2	-48.65	-53.54	-13	-40.54	H
6.988500	55.18	Pk	35.6	-95.2	-46.60	-51.02	-13	-38.02	H
7.010000	55.72	Pk	35.6	-95.2	-46.90	-50.78	-13	-37.78	V
High Channel, 1757.5MHz									
3.522500	55.96	Pk	32.8	-95.2	-46.90	-53.34	-13	-40.34	H
3.499500	55.50	Pk	32.7	-95.2	-46.85	-53.85	-13	-40.85	V
5.271500	56.09	Pk	34.2	-95.2	-48.65	-53.56	-13	-40.56	V
5.278500	56.59	Pk	34.2	-95.2	-48.75	-53.16	-13	-40.16	H
7.004500	55.08	Pk	35.6	-95.2	-46.85	-51.37	-13	-38.37	V
7.033500	55.35	Pk	35.6	-95.2	-47.10	-51.35	-13	-38.35	H

5G NR n66 (BPSK 45.0MHZ BANDWIDTH, ANT 3)

Project #:	15496277
Date:	2025-07-13
Test Engineer:	32934
Configuration:	EUT Only
Mode	5G NR n66 45MHz BPSK
Chamber #:	03-RDE-B

Frequency (GHz)	Meter Reading (dBuV)	Det	223084 ACF (dB/m)	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	LIMIT	Margin (dB)	Polarity
Low Channel, 1732.5MHz									
3.453000	55.29	Pk	32.8	-95.2	-47.40	-54.51	-13	-41.51	V
3.456500	56.72	Pk	32.8	-95.2	-47.40	-53.08	-13	-40.08	H
5.184000	57.46	Pk	34.0	-95.2	-48.90	-52.64	-13	-39.64	V
5.197000	57.36	Pk	34.1	-95.2	-49.00	-52.74	-13	-39.74	H
6.925000	55.33	Pk	35.6	-95.2	-46.40	-50.67	-13	-37.67	H
6.926500	55.48	Pk	35.6	-95.2	-46.40	-50.52	-13	-37.52	V
Mid Channel, 1745MHz									
3.485500	55.40	Pk	32.7	-95.2	-46.90	-54.00	-13	-41.00	V
3.497000	55.05	Pk	32.7	-95.2	-46.90	-54.35	-13	-41.35	H
5.224000	56.60	Pk	34.1	-95.2	-48.70	-53.20	-13	-40.20	V
5.244500	56.54	Pk	34.2	-95.2	-48.65	-53.11	-13	-40.11	H
6.983000	56.15	Pk	35.6	-95.2	-46.60	-50.05	-13	-37.05	V
6.984000	55.59	Pk	35.6	-95.2	-46.60	-50.61	-13	-37.61	H
High Channel, 1757.5MHz									
3.530500	54.61	Pk	32.8	-95.2	-46.85	-54.64	-13	-41.64	H
3.525000	55.45	Pk	32.8	-95.2	-46.90	-53.85	-13	-40.85	V
5.261500	57.70	Pk	34.2	-95.2	-48.80	-52.10	-13	-39.10	V
5.278500	56.67	Pk	34.2	-95.2	-48.75	-53.08	-13	-40.08	H
7.033000	55.64	Pk	35.6	-95.2	-47.10	-51.06	-13	-38.06	H
7.041000	56.15	Pk	35.6	-95.2	-47.30	-50.75	-13	-37.75	V

5G NR n66 (BPSK 45.0MHZ BANDWIDTH, ANT 4)

Project #:	15496277
Date:	2025-07-13
Test Engineer:	32934
Configuration:	EUT Only
Mode	5G NR n66 45MHz BPSK
Chamber #:	03-RDE-B

Frequency (GHz)	Meter Reading (dBuV)	Det	223084 ACF (dB/m)	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	LIMIT	Margin (dB)	Polarity
Low Channel, 1732.5MHz									
3.463500	56.73	Pk	32.7	-95.2	-47.35	-53.12	-13	-40.12	V
3.469000	56.01	Pk	32.7	-95.2	-47.30	-53.79	-13	-40.79	H
5.173000	56.54	Pk	34.1	-95.2	-48.80	-53.36	-13	-40.36	V
5.181500	57.92	Pk	34.0	-95.2	-48.95	-52.23	-13	-39.23	H
6.913000	54.76	Pk	35.6	-95.2	-46.40	-51.24	-13	-38.24	V
6.919000	55.94	Pk	35.6	-95.2	-46.40	-50.06	-13	-37.06	H
Mid Channel, 1745MHz									
3.476500	56.14	Pk	32.7	-95.2	-47.10	-53.46	-13	-40.46	V
3.487500	56.17	Pk	32.7	-95.2	-46.90	-53.23	-13	-40.23	H
5.234500	57.50	Pk	34.2	-95.2	-48.70	-52.20	-13	-39.20	V
5.245000	55.86	Pk	34.2	-95.2	-48.70	-53.84	-13	-40.84	H
6.961000	54.40	Pk	35.6	-95.2	-46.40	-51.60	-13	-38.60	V
6.980500	55.01	Pk	35.6	-95.2	-46.55	-51.14	-13	-38.14	H
High Channel, 1757.5MHz									
3.522000	55.21	Pk	32.8	-95.2	-46.90	-54.09	-13	-41.09	H
3.499500	55.50	Pk	32.7	-95.2	-46.85	-53.85	-13	-40.85	V
5.280500	56.84	Pk	34.2	-95.2	-48.75	-52.91	-13	-39.91	V
5.293000	56.12	Pk	34.2	-95.2	-48.70	-53.58	-13	-40.58	H
7.026000	55.02	Pk	35.6	-95.2	-47.00	-51.58	-13	-38.58	V
7.030000	56.31	Pk	35.6	-95.2	-47.00	-50.29	-13	-37.29	H

11. SETUP PHOTOS

Refer to 15496277-EP1V1 for setup photos.

END OF REPORT