

TEST REPORT

Reference No..... : WTD24X01019435W008
FCC ID : 2AQRM-Q5
Applicant : Foxx Development Inc.
Address : 3480 Preston Ridge Road, Suite500, Alpharetta, GA 30005, USA
Manufacturer : The same as Applicant
Address : The same as Applicant
Product Name : 5G MiFi
Model No..... : Q5
Standards : FCC Part 22, FCC Part 24E, FCC Part 27
Date of Receipt sample : 2024-01-24
Date of Test..... : 2024-05-08 to 2024-05-30
Date of Issue : 2024-05-30
Test Report Form No. : WTX_Part 22_Part 27W
Test Result..... : Pass

Remarks:

The results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full, without prior written permission of the company. The report would be invalid without specific stamp of test institute and the signatures of approver.

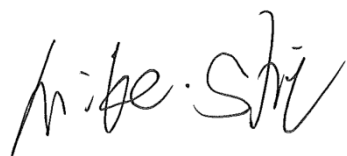
Prepared By:

Waltek Testing Group (Shenzhen) Co., Ltd.

Address: 1/F., Room 101, Building 1, Hongwei Industrial Park, Liuxian 2nd Road,
Block 70 Bao'an District, Shenzhen, Guangdong, China

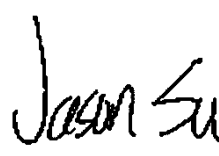
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Report version

Version No.	Date of issue	Description
Rev.00	2024-05-30	Original
/	/	/

1. GENERAL INFORMATION

1.1 Product Description for Equipment Under Test (EUT)

General Description of EUT:	
Product Name:	5G MiFi
Trade Name:	/
Model No.:	Q5
Adding Model(s):	/
Rated Voltage:	Adapter DC5V; Battery DC3.85V
Battery:	/
Adapter Model:	GQ15-050300-ZU Input: AC100-240v~50/60Hz 0.5A Output:DC5V3.0A
<i>Note: The test data is gathered from a production sample, provided by the manufacturer.</i>	

Technical Characteristics of EUT:	
5G	
Support Networks:	5G NR
Support Band:	n2; n5; n7, n12; n13; n25; n26(824-849MHz) ; n30; n38, n41; n66; n71; n77; n78
NSA Band:	n2A, n5A, n7A, n12A, n14A, n25, n30A, n38, n41A, n48, n66, n71, n77, n78
Uplink Frequency:	5G NR n2: 1850-1910MHz, 5G NR n5: 824-849MHz, 5G NR n7: 2500-2570MHz, 5G NR n12: 699-716MHz, 5G NR n13: 777-787MHz 5G NR n25: 1850-1915MHz, 5G NR n26: 824-849 MHz 5G NR n30: 2305-2315MHz 5G NR n38: 2570-2620MHz, 5G NR n41: 2496-2690MHz, 5G NR n66: 1710-1780MHz, 5G NR n71: 663-698MHz 5G NR n77: 3450-3550MHz 5G NR n77: 3700-3980MHz 5G NR n78: 3300-3800MHz
Downlink Frequency:	5G NR n2: 1930-1990MHz, 5G NR n5: 869-894MHz,

	5G NR n7: 2620-2690MHz, 5G NR n12: 729-746MHz, 5G NR n13: 746-756MHz 5G NR n25: 1930-1995MHz, 5G NR n26: 869-894MHz 5G NR n30: 2350-2360MHz 5G NR n38: 2570-2620MHz, 5G NR n41: 2496-2690MHz, 5G NR n66: 2110-2200MHz, 5G NR n71: 617-652MHz 5G NR n77: 3450-3550MHz 5G NR n77: 3700-3980MHz 5G NR n78: 3300-3800MHz
RF Output Power:	5G NR n2: 24.03dBm, 5G NR n5: 23.91dBm, 5G NR n7: 24.78dBm, 5G NR n12: 23.54dBm, 5G NR n13: 22.76dBm, 5G NR n25: 23.26dBm, 5G NR n26(824-849MHz): 23.91dBm, 5G NR n30: 23.73dBm, 5G NR n38: 24.76dBm, 5G NR n41: 25.32dBm, 5G NR n66: 24.23dBm, 5G NR n71: 23.60dBm 5G NR n77_3450-3550MHz: 24.33dBm 5G NR n78_3450-3550MHz: 24.33dBm 5G NR n77_3700-3980MHz: 27.32dBm 5G NR n78_3700-3980MHz: 27.32dBm
Max. RF Output Power(UL MIMO):	5G NR n38_UL MIMO: 22.85dBm, 5G NR n41_UL MIMO: 23.93dBm, 5G NR n48_UL MIMO: 21.58dBm, 5G NR n77_3450-3550MHz_UL MIMO: 24.13dBm 5G NR n78_3450-3550MHz_UL MIMO: 24.13dBm 5G NR n77_3700-3980MHz_UL MIMO: 24.22dBm 5G NR n78_3700-3980MHz_UL MIMO: 24.22dBm
Max. RF Output Power(HPUE):	n38_HPUE: 26.37dBm, n41_HPUE: 27.83dBm, n77_3450-3550MHz_HPUE: 27.23dBm, n78_3450-3550MHz_HPUE: 27.23dBm, n38_UL MIMO_HPUE: 22.73dBm, n41_UL MIMO_HPUE_HPUE: 25.29dBm, n77_UL MIMO_3450-3550MHz_HPUE: 25.56dBm,

	n78_UL MIMO_3450-3550MHz_HPUE: 25.56dBm, n77_UL MIMO_3700-3980MHz_HPUE: 25.62dBm, n78_UL MIMO_3700-3980MHz_HPUE: 25.62dBm,
Type of Emission:	5G NR n2: 17M9G7D, 17M9W7D 5G NR n5: 17M8G7D, 17M8W7D 5G NR n7: 38M5G7D, 38M6W7D 5G NR n12:13M4G7D, 13M4W7D 5G NR n13:8M91G7D, 8M94W7D 5G NR n25:38M5G7D, 38M5W7D 5G NR n26:18M9G7D, 18M9W7D 5G NR n30:8M92G7D, 9M00W7D 5G NR n38:35M7G7D, 35M8W7D 5G NR n41: 96M2G7D, 96M4W7D 5G NR n66: 38M4G7D, 38M5W7D 5G NR n71: 17M8G7D, 17M8W7D 5G NR n77(3450-3550MHz): 96M4G7D, 96M4W7D 5G NR n77(3700-3980MHz): 96M3G7D, 96M3W7D 5G NR n78(3450-3550MHz): 96M4G7D, 96M4W7D 5G NR n78(3700-3980MHz): 96M3G7D, 96M3W7D
Type of Modulation:	DFT-s-OFDM: PI/2 BPSK QPSK / 16QAM / 64QAM / 256QAM CP-OFDM: QPSK / 16QAM / 64QAM / 256QAM
Antenna Type:	FPC Antenna
Antenna Gain:	n2.8dBi n5: 2.1dBi n7: 3.7dBi n12: 0.8dBi n13: 0.8dBi n25: 2.8dBi n26(824-849MHz): 2.1dBi n30: 4.1dBi n38: 3.7dBi n41: 3.7dBi n66: 2.8dBi n71: 0.8dBi n77: 6.9dBi n78: 3.2dBi
Note The Antenna Gain is provided by the customer and can affect the validity of results.	

1.2 Test Standards

The tests were performed according to following standards:

FCC Rules Part 2: Frequency Allocations and Radio Treaty Matters; General Rules and Regulations.

FCC Rules Part 22: Private Land Mobile Radio Services.

FCC Rules Part 24: Public Mobile Services.

FCC Rules Part 27: Miscellaneous Wireless Communications Services.

TIA/EIA 603 E March 2016: Land Mobile FM or PM Communications Equipment Measurement and Performance Standards.

ANSI C63.26-2015: American National Standard for Compliance Testing of Transmitters Used in Licensed Radio Services.

KDB 971168 D01 Power Measurement License Digital Systems v03r01: Measurement Guidance for Certification of Licensed Digital Transmitters.

Maintenance of compliance is the responsibility of the manufacturer. Any modification of the product, which result in lowering the emission, should be checked to ensure compliance has been maintained.

1.3 Test Methodology

All measurements contained in this report were conducted with TIA/EIA 603 E/ KDB 971168/ ANSI C63.26. The equipment under test (EUT) was configured to measure its highest possible emission level. The test modes were adapted accordingly in reference to the Operating Instructions.

1.4 Test Facility

Address of the test laboratory

Laboratory: Waltek Testing Group (Shenzhen) Co., Ltd.

Address: 1/F., Room 101, Building 1, Hongwei Industrial Park, Liuxian 2nd Road, Block 70 Bao'an District, Shenzhen, Guangdong, China

FCC – Registration No.: 125990

Waltek Testing Group (Shenzhen) Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the FCC (Federal Communications Commission). The acceptance letter from the FCC is maintained in our files. The Designation Number is CN5010, and Test Firm Registration Number is 125990.

Industry Canada (IC) Registration No.: 11464A

The 3m Semi-anechoic chamber of Waltek Testing Group (Shenzhen) Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 11464A and the CAB identifier is CN0057.

1.5 EUT Setup and Test Mode

The EUT was operated in the engineering mode to fix the Tx frequency that was for the purpose of the measurements. All testing shall be performed under maximum output power condition, and to measure its highest possible emissions level, more detailed description as follows:

Test Mode List		
Test Mode	Description	Remark
TM1	5G NR n2	Low, Middle, High Channels
TM2	5G NR n5	Low, Middle, High Channels
TM3	5G NR n7	Low, Middle, High Channels
TM4	5G NR n12	Low, Middle, High Channels
TM5	5G NR n13	Low, Middle, High Channels
TM6	5G NR n25	Low, Middle, High Channels
TM7	5G NR n26	Low, Middle, High Channels
TM8	5G NR n30	Low, Middle, High Channels
TM9	5G NR n38	Low, Middle, High Channels
TM10	5G NR n41	Low, Middle, High Channels
TM11	5G NR n66	Low, Middle, High Channels
TM12	5G NR n71	Low, Middle, High Channels
TM13	5G NR n77(3450-3550MHz)	Low, Middle, High Channels
TM14	5G NR n77(3700-3980MHz)	Low, Middle, High Channels
TM15	5G NR n78(3450-3550MHz)	Low, Middle, High Channels

Test Conditions	
Temperature:	22~25 °C
Relative Humidity:	50~55 %.
ATM Pressure:	1019 mbar

EUT Cable List and Details			
Cable Description	Length (m)	Shielded/Unshielded	With / Without Ferrite
Type-C Cable	1.0	Shielded	Without Ferrite

Special Cable List and Details			
Cable Description	Length (m)	Shielded/Unshielded	With / Without Ferrite
/	/	/	/

Auxiliary Equipment List and Details			
Description	Manufacturer	Model	Serial Number
/	/	/	/

1.6 Measurement Uncertainty

Measurement uncertainty		
Parameter	Conditions	Uncertainty
RF Output Power	Conducted	$\pm 0.42\text{dB}$
Occupied Bandwidth	Conducted	$\pm 1.5\%$
Frequency Stability	Conducted	2.3%
Transmitter Spurious Emissions	Conducted	$\pm 0.42\text{dB}$
Transmitter Spurious Emissions	Radiated	30-200MHz $\pm 4.52\text{dB}$
		0.2-1GHz $\pm 5.56\text{dB}$
		1-6GHz $\pm 3.84\text{dB}$
		6-18GHz $\pm 3.92\text{dB}$

1.7 Test Equipment List and Details

Fixed asset Number	Description	Manufacturer	Model	Serial No.	Cal Date	Due. Date
WTXE1041A 1001	Communication Tester	Rohde & Schwarz	CMW500	148650	2024-02-24	2025-02-23
WTXE1022A 1002	GSM Tester	Rohde & Schwarz	CMU200	114403	2024-02-27	2025-02-26
WTXE1091A 1001	UXM 5G Wireless Test Platform	KEYSIGHT	E7515B	MY574505 25	2024-02-27	2025-02-26
WTXE1005A 1005	Spectrum Analyzer	Agilent	N9020A	US471401 02	2024-03-19	2025-03-18
WTXE1084A 1001	Spectrum Analyzer	Agilent	N9020A	MY543205 48	2024-02-24	2025-02-23
WTXE1044A 1001	Signal Generator	Agilent	83752A	3610A014 53	2024-02-24	2025-02-23
WTXE1045A 1001	Vector Signal Generator	Agilent	N5182A	MY470702 02	2024-02-24	2025-02-23
WTXE1018A 1001	Power Divider	Weinschel	1506A	PM204	2024-02-29	2025-02-28
WTXE1088A 1001-2	EXA Signal Analyzer	KEYSIGHT	N9010B	MY590704 94	2024-02-24	2025-02-23
WTXE1092A 1001-2	Band Reject Filter Group	Tonscend	JS0806-F	20180603 19	2024-02-24	2025-02-23
☐ Chamber A: Below 1GHz						
WTXE1005A 1003	Spectrum Analyzer	Rohde & Schwarz	FSP30	836079/03 5	2024-02-24	2025-02-23
WTXE1001A 1001	EMI Test Receiver	Rohde & Schwarz	ESPI	101611	2024-03-19	2025-03-18
WTXE1007A 1001	Amplifier	HP	8447F	2805A034 75	2024-02-24	2025-02-23
WTXE1010A 1007	Loop Antenna	Schwarz beck	FMZB 1516	9773	2024-02-26	2025-02-25
WTXE1010A 1006	Broadband Antenna	Schwarz beck	VULB9163	9163-333	2024-02-24	2025-02-23
☐ Chamber A: Above 1GHz						
WTXE1005A 1003	Spectrum Analyzer	Rohde & Schwarz	FSP30	836079/03 5	2024-02-24	2025-02-23
WTXE1001A 1001	EMI Test Receiver	Rohde & Schwarz	ESPI	101611	2024-03-19	2025-03-18
WTXE1065A	Amplifier	C&D	PAP-1G18	2002	2024-02-27	2025-02-26

1001						
WTXE1010A 1005	Horn Antenna	ETS	3117	00086197	2024-02-26	2025-02-25
WTXE1010A 1010	DRG Horn Antenna	A.H. SYSTEMS	SAS-574	571	2024-03-17	2025-03-16
WTXE1003A 1001	Pre-amplifier	Schwarzbeck	BBV 9721	9721-031	2024-02-29	2025-02-28
WTXE1004A 1-001	Spectrum Analyzer	Rohde & Schwarz	FSP40	100612	2024-02-27	2025-02-26
☐ Chamber B:Below 1GHz						
WTXE1010A 1006	Trilog Broadband Antenna	Schwarz beck	VULB9163(B)	9163-635	2024-02-24	2025-02-23
WTXE1038A 1001	Amplifier	Agilent	8447D	2944A104 57	2024-02-24	2025-02-23
WTXE1001A 1002	EMI Test Receiver	Rohde & Schwarz	ESPI	101391	2024-02-24	2025-02-23
☒ Chamber C:Below 1GHz						
WTXE1093A 1001	EMI Test Receiver	Rohde & Schwarz	ESIB 26	100401	2024-02-27	2025-02-26
WTXE1010A 1013-1	Trilog Broadband Antenna	Schwarz beck	VULB 9168	1194	2024-04-18	2027-04-17
WTXE1007A 1002	Amplifier	HP	8447F	2944A038 69	2024-02-24	2025-02-23
WTXE1010A 1007	Loop Antenna	Schwarz beck	FMZB 1516	9773	2024-02-26	2025-02-25
☒ Chamber C: Above 1GHz						
WTXE1093A 1001	EMI Test Receiver	Rohde & Schwarz	ESIB 26	100401	2024-02-27	2025-02-26
WTXE1103A 1005	Horn Antenna	POAM	RTF-118A	1820	2023-03-10	2026-03-09
WTXE1103A 1006	Amplifier	Tonscend	TAP01018050	AP22E806 235	2024-02-27	2025-02-26
WTXE1010A 1010	DRG Horn Antenna	A.H. SYSTEMS	SAS-574	571	2024-03-17	2025-03-16
WTXE1003A 1001	Pre-amplifier	Schwarzbeck	BBV 9721	9721-031	2024-02-29	2025-02-28

Software List			
Description	Manufacturer	Model	Version
EMI Test Software (Radiated Emission A)*	Farad	EZ-EMC	RA-03A1
EMI Test Software (Radiated Emission B)*	Farad	EZ-EMC	RA-03A1
EMI Test Software (Radiated Emission C)*	Farad	EZ-EMC	RA-03A1-2
5G NR Test Ssystem	Tonscend	TS-1120	V2.4.0

*Remark: indicates software version used in the compliance certification testing.

2. SUMMARY OF TEST RESULTS

FCC Rules	Description of Test Item	Result
§2.1046, §22.913(a)(2), §24.232(c), §27.50(b)(10), §27.50(c)(10), §27.50(d)(4), §27.50(h)(2)	RF Output Power	Compliant
§24.232(d), §27.50(d)(5)	Peak-to-average Ratio (PAR) of Transmitter*	N/A
§2.1049	Emission Bandwidth*	N/A
§2.1053, §22.917(a), §24.238(a), §27.53(c)(2), §27.53(g), §27.53(h), §27.53(m)(4)	Spurious Emissions at Antenna Terminal*	N/A
§2.1053, §22.917(a), §24.238(a), §27.53(c)(2), §27.53(g), §27.53(h), §27.53(m)(4)	Spurious Radiation Emissions	Compliant
§2.1051, §22.917(a), §24.238(a), §27.53(c)(2), §27.53(g), §27.53(h), §27.53(m)(4)	Out of Band Emissions*	N/A
§2.1055, §22.355, §24.235, §27.54	Frequency Stability*	N/A

**Remark: Due to updated antennas of NR, Updated test data include radiated Power, Spurious Radiation Emissions, the RF conducted test data refer to the module (FCC ID: XMR2022RG520NNA), the granted date: 08/24/2022.*

N/A: Not applicable.

3. RF Output Power

3.1 Standard Applicable

According to §22.913(a)(2), the ERP of mobile and portable stations transmitters and auxiliary test transmitters must not exceed 7 Watts.

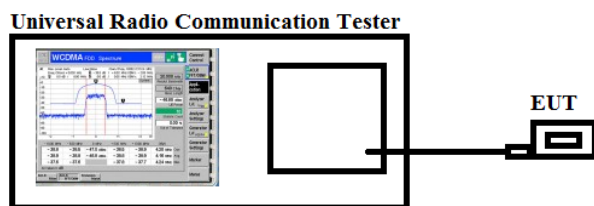
According to §24.232(c), mobile and portable stations are limited to 2 watts EIRP and the equipment must employ a means for limiting power to the minimum necessary for successful communications.

According to §27.50(d)(4), fixed, mobile, and portable (hand-held) stations operating in the 1710-1755MHz band and mobile and portable stations operating in the 1695-1710MHz and 1755-1780MHz bands are limited to 1 watt EIRP.

According to §27.50(c)(10), portable stations (hand-held devices) in the 698-746 MHz band are limited to 3 watts ERP.

3.2 Test Procedure

- Conducted output power test method:



- Radiated power test method:

1. The setup of EUT is according with per ANSI/TIA Standard 603E and ANSI C63.26 measurement procedure.
2. The measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the antenna height and polarization as well as EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. The test was performed by placing the EUT on 3-orthogonal axis.
3. The frequency range up to tenth harmonic of the fundamental frequency was investigated.
4. Remove the EUT and replace it with substitution antenna. A signal generator was connected to the substitution antenna by a non-radiating cable. The absolute levels of the spurious emissions were measured by the substitution.

3.3 Summary of Test Results/Plots

Max. Radiated Power:

5G NR n2

Channel Bandwidth: 5 MHz			
Modulation	Channel	E.i.r.p [dBm]	Verdict
DFT-QPSK	LCH	24.21	PASS
	MCH	24.16	PASS
	HCH	24.15	PASS
CP-QPSK	LCH	24.27	PASS
	MCH	24.24	PASS
	HCH	24.22	PASS
Channel Bandwidth: 10 MHz			
Modulation	Channel	E.i.r.p [dBm]	Verdict
DFT-QPSK	LCH	24.15	PASS
	MCH	24.13	PASS
	HCH	24.25	PASS
CP-QPSK	LCH	24.14	PASS
	MCH	24.07	PASS
	HCH	24.18	PASS
Channel Bandwidth: 15 MHz			
Modulation	Channel	E.i.r.p [dBm]	Verdict
DFT-QPSK	LCH	24.15	PASS
	MCH	24.03	PASS
	HCH	24.25	PASS
CP-QPSK	LCH	24.24	PASS
	MCH	24.15	PASS
	HCH	24.47	PASS
Channel Bandwidth: 20 MHz			
Modulation	Channel	E.i.r.p [dBm]	Verdict
DFT-QPSK	LCH	24.22	PASS
	MCH	24.16	PASS
	HCH	24.15	PASS
CP-QPSK	LCH	24.14	PASS
	MCH	24.18	PASS
	HCH	24.17	PASS

5G NR n5

Channel Bandwidth: 5MHz			
Modulation	Channel	E.r.p [dBm]	Verdict
DFT-QPSK	LCH	22.12	PASS
	MCH	22.54	PASS
	HCH	22.25	PASS
CP-QPSK	LCH	22.12	PASS
	MCH	22.36	PASS
	HCH	22.54	PASS
Channel Bandwidth: 10MHz			
Modulation	Channel	E.r.p [dBm]	Verdict
DFT-QPSK	LCH	22.32	PASS
	MCH	22.28	PASS
	HCH	22.15	PASS
CP-QPSK	LCH	22.23	PASS
	MCH	22.21	PASS
	HCH	22.14	PASS
Channel Bandwidth: 15MHz			
Modulation	Channel	E.r.p [dBm]	Verdict
DFT-QPSK	LCH	22.12	PASS
	MCH	22.23	PASS
	HCH	22.15	PASS
CP-QPSK	LCH	22.22	PASS
	MCH	22.21	PASS
	HCH	22.22	PASS
Channel Bandwidth: 20MHz			
Modulation	Channel	E.r.p [dBm]	Verdict
DFT-QPSK	LCH	22.12	PASS
	MCH	22.23	PASS
	HCH	22.11	PASS
CP-QPSK	LCH	22.12	PASS
	MCH	22.25	PASS
	HCH	22.32	PASS

5G NR n7

Channel Bandwidth: 5MHz			
Modulation	Channel	E.r.p [dBm]	Verdict
DFT-QPSK	LCH	25.12	PASS
	MCH	25.23	PASS
	HCH	25.11	PASS
CP-QPSK	LCH	25.22	PASS
	MCH	25.33	PASS
	HCH	25.55	PASS
Channel Bandwidth: 10MHz			
Modulation	Channel	E.r.p [dBm]	Verdict
DFT-QPSK	LCH	25.12	PASS
	MCH	25.23	PASS
	HCH	25.32	PASS
CP-QPSK	LCH	25.51	PASS
	MCH	25.22	PASS
	HCH	25.13	PASS
Channel Bandwidth: 15MHz			
Modulation	Channel	E.r.p [dBm]	Verdict
DFT-QPSK	LCH	25.12	PASS
	MCH	25.23	PASS
	HCH	25.14	PASS
CP-QPSK	LCH	25.22	PASS
	MCH	25.33	PASS
	HCH	25.55	PASS
Channel Bandwidth: 20MHz			
Modulation	Channel	E.r.p [dBm]	Verdict
DFT-QPSK	LCH	25.12	PASS
	MCH	25.23	PASS
	HCH	25.24	PASS
CP-QPSK	LCH	25.32	PASS
	MCH	25.12	PASS
	HCH	25.43	PASS

5G NR n12

Channel Bandwidth: 5MHz			
Modulation	Channel	E.i.r.p [dBm]	Verdict
DFT-QPSK	LCH	22.05	PASS
	MCH	22.10	PASS
	HCH	22.12	PASS
CP-QPSK	LCH	22.13	PASS
	MCH	22.01	PASS
	HCH	22.02	PASS
Channel Bandwidth: 10MHz			
Modulation	Channel	E.i.r.p [dBm]	Verdict
DFT-QPSK	LCH	22.11	PASS
	MCH	22.02	PASS
	HCH	22.13	PASS
CP-QPSK	LCH	22.05	PASS
	MCH	22.15	PASS
	HCH	22.03	PASS
Channel Bandwidth: 15MHz			
Modulation	Channel	E.i.r.p [dBm]	Verdict
DFT-QPSK	LCH	22.04	PASS
	MCH	22.12	PASS
	HCH	22.13	PASS
CP-QPSK	LCH	22.15	PASS
	MCH	22.16	PASS
	HCH	22.04	PASS

5G NR n13

Channel Bandwidth: 5MHz			
Modulation	Channel	E.i.r.p [dBm]	Verdict
DFT-QPSK	LCH	21.01	PASS
	MCH	21.12	PASS
	HCH	21.23	PASS
CP-QPSK	LCH	21.15	PASS
	MCH	21.44	PASS
	HCH	21.32	PASS
Channel Bandwidth: 10MHz			
Modulation	Channel	E.i.r.p [dBm]	Verdict
DFT-QPSK	MCH	21.22	PASS
CP-QPSK	MCH	21.03	PASS

5G NR n25

Channel Bandwidth: 5MHz			
Modulation	Channel	E.i.r.p [dBm]	Verdict
DFT-QPSK	LCH	24.12	PASS
	MCH	24.23	PASS
	HCH	24.11	PASS
CP-QPSK	LCH	24.22	PASS
	MCH	24.13	PASS
	HCH	24.25	PASS
Channel Bandwidth: 10MHz			
Modulation	Channel	E.i.r.p [dBm]	Verdict
DFT-QPSK	LCH	24.12	PASS
	MCH	24.22	PASS
	HCH	24.13	PASS
CP-QPSK	LCH	24.25	PASS
	MCH	24.22	PASS
	HCH	24.23	PASS
Channel Bandwidth: 15MHz			
Modulation	Channel	E.i.r.p [dBm]	Verdict
DFT-QPSK	LCH	24.21	PASS
	MCH	24.22	PASS
	HCH	24.23	PASS
CP-QPSK	LCH	24.25	PASS
	MCH	24.24	PASS
	HCH	24.22	PASS
Channel Bandwidth: 20MHz			
Modulation	Channel	E.i.r.p [dBm]	Verdict
DFT-QPSK	LCH	24.21	PASS
	MCH	24.22	PASS
	HCH	24.23	PASS
CP-QPSK	LCH	24.26	PASS
	MCH	24.25	PASS
	HCH	24.24	PASS

Channel Bandwidth: 25MHz			
Modulation	Channel	E.i.r.p [dBm]	Verdict
DFT-QPSK	LCH	24.12	PASS
	MCH	24.23	PASS
	HCH	24.25	PASS
CP-QPSK	LCH	24.24	PASS
	MCH	24.25	PASS
	HCH	24.24	PASS
Channel Bandwidth: 30MHz			
Modulation	Channel	E.i.r.p [dBm]	Verdict
DFT-QPSK	LCH	24.32	PASS
	MCH	24.22	PASS
	HCH	24.25	PASS
CP-QPSK	LCH	24.27	PASS
	MCH	24.28	PASS
	HCH	24.36	PASS
Channel Bandwidth: 40MHz			
Modulation	Channel	E.i.r.p [dBm]	Verdict
DFT-QPSK	LCH	24.31	PASS
	MCH	24.22	PASS
	HCH	24.13	PASS
CP-QPSK	LCH	24.25	PASS
	MCH	24.24	PASS
	HCH	24.12	PASS

5G NR n26(824-849MHz)

Channel Bandwidth: 5MHz			
Modulation	Channel	E.i.r.p [dBm]	Verdict
DFT-QPSK	LCH	21.41	PASS
	MCH	21.32	PASS
	HCH	21.53	PASS
CP-QPSK	LCH	21.42	PASS
	MCH	21.25	PASS
	HCH	21.35	PASS
Channel Bandwidth: 10MHz			
Modulation	Channel	E.i.r.p [dBm]	Verdict
DFT-QPSK	LCH	21.72	PASS
	MCH	21.22	PASS
	HCH	21.33	PASS
CP-QPSK	LCH	21.14	PASS
	MCH	21.22	PASS
	HCH	21.32	PASS
Channel Bandwidth: 15MHz			
Modulation	Channel	E.i.r.p [dBm]	Verdict
DFT-QPSK	LCH	21.41	PASS
	MCH	21.32	PASS
	HCH	21.53	PASS
CP-QPSK	LCH	21.21	PASS
	MCH	21.22	PASS
	HCH	21.33	PASS
Channel Bandwidth: 20MHz			
Modulation	Channel	E.i.r.p [dBm]	Verdict
DFT-QPSK	LCH	21.12	PASS
	MCH	21.22	PASS
	HCH	21.13	PASS
CP-QPSK	LCH	21.16	PASS
	MCH	21.25	PASS
	HCH	21.32	PASS

5G NR n30

Channel Bandwidth: 5MHz			
Modulation	Channel	E.i.r.p [dBm/5MHz]	Verdict
DFT-QPSK	LCH	23.12	PASS
	MCH	23.23	PASS
	HCH	23.44	PASS
CP-QPSK	LCH	23.32	PASS
	MCH	23.52	PASS
	HCH	23.13	PASS
Channel Bandwidth: 10MHz			
Modulation	Channel	E.i.r.p [dBm/5MHz]	Verdict
DFT-QPSK	MCH	23.01	PASS
CP-QPSK	MCH	23.42	PASS

5G NR n38

Channel Bandwidth: 10MHz			
Modulation	Channel	E.i.r.p [dBm]	Verdict
DFT-QPSK	LCH	25.12	PASS
	MCH	25.33	PASS
	HCH	25.15	PASS
CP-QPSK	LCH	25.24	PASS
	MCH	25.32	PASS
	HCH	25.52	PASS
Channel Bandwidth: 15MHz			
Modulation	Channel	E.i.r.p [dBm]	Verdict
DFT-QPSK	LCH	25.12	PASS
	MCH	25.23	PASS
	HCH	25.15	PASS
CP-QPSK	LCH	25.24	PASS
	MCH	25.32	PASS
	HCH	25.12	PASS
Channel Bandwidth: 20MHz			
Modulation	Channel	E.i.r.p [dBm]	Verdict
DFT-QPSK	LCH	25.31	PASS
	MCH	25.42	PASS
	HCH	25.23	PASS
CP-QPSK	LCH	25.35	PASS
	MCH	25.24	PASS
	HCH	25.25	PASS
Channel Bandwidth: 30MHz			
Modulation	Channel	E.i.r.p [dBm]	Verdict
DFT-QPSK	LCH	25.11	PASS
	MCH	25.22	PASS
	HCH	25.33	PASS
CP-QPSK	LCH	25.45	PASS
	MCH	25.24	PASS
	HCH	25.35	PASS

Channel Bandwidth: 40MHz			
Modulation	Channel	E.i.r.p [dBm]	Verdict
DFT-QPSK	LCH	25.42	PASS
	MCH	25.23	PASS
	HCH	25.31	PASS
CP-QPSK	LCH	25.22	PASS
	MCH	25.12	PASS
	HCH	25.32	PASS

5G NR n41

Channel Bandwidth: 20MHz			
Modulation	Channel	E.i.r.p [dBm]	Verdict
DFT-QPSK	LCH	25.12	PASS
	MCH	25.23	PASS
	HCH	25.21	PASS
CP-QPSK	LCH	25.22	PASS
	MCH	25.12	PASS
	HCH	25.63	PASS
Channel Bandwidth: 30MHz			
Modulation	Channel	E.i.r.p [dBm]	Verdict
DFT-QPSK	LCH	25.13	PASS
	MCH	25.21	PASS
	HCH	25.25	PASS
CP-QPSK	LCH	25.33	PASS
	MCH	25.44	PASS
	HCH	25.25	PASS
Channel Bandwidth: 40MHz			
Modulation	Channel	E.i.r.p [dBm]	Verdict
DFT-QPSK	LCH	25.42	PASS
	MCH	25.23	PASS
	HCH	25.24	PASS
CP-QPSK	LCH	25.62	PASS
	MCH	25.12	PASS
	HCH	25.23	PASS
Channel Bandwidth: 50MHz			
Modulation	Channel	E.i.r.p [dBm]	Verdict
DFT-QPSK	LCH	25.31	PASS
	MCH	25.22	PASS
	HCH	25.33	PASS
CP-QPSK	LCH	25.52	PASS
	MCH	25.23	PASS
	HCH	25.34	PASS

Channel Bandwidth: 60MHz			
Modulation	Channel	E.i.r.p [dBm]	Verdict
DFT-QPSK	LCH	25.31	PASS
	MCH	25.52	PASS
	HCH	25.23	PASS
CP-QPSK	LCH	25.42	PASS
	MCH	25.61	PASS
	HCH	25.25	PASS
Channel Bandwidth: 70MHz			
Modulation	Channel	E.i.r.p [dBm]	Verdict
DFT-QPSK	LCH	25.26	PASS
	MCH	25.25	PASS
	HCH	25.43	PASS
CP-QPSK	LCH	25.24	PASS
	MCH	25.62	PASS
	HCH	25.43	PASS
Channel Bandwidth: 80MHz			
Modulation	Channel	E.i.r.p [dBm]	Verdict
DFT-QPSK	LCH	25.42	PASS
	MCH	25.23	PASS
	HCH	25.25	PASS
CP-QPSK	LCH	25.11	PASS
	MCH	25.65	PASS
	HCH	25.45	PASS
Channel Bandwidth: 90MHz			
Modulation	Channel	E.i.r.p [dBm]	Verdict
DFT-QPSK	LCH	25.62	PASS
	MCH	25.46	PASS
	HCH	25.35	PASS
CP-QPSK	LCH	25.44	PASS
	MCH	25.25	PASS
	HCH	25.37	PASS

Channel Bandwidth: 100MHz			
Modulation	Channel	E.i.r.p [dBm]	Verdict
DFT-QPSK	LCH	25.41	PASS
	MCH	25.52	PASS
	HCH	25.43	PASS
CP-QPSK	LCH	25.25	PASS
	MCH	25.14	PASS
	HCH	25.65	PASS

5G NR n66

Channel Bandwidth: 5MHz			
Modulation	Channel	E.i.r.p [dBm]	Verdict
DFT-QPSK	LCH	24.15	PASS
	MCH	24.22	PASS
	HCH	24.53	PASS
CP-QPSK	LCH	24.62	PASS
	MCH	24.41	PASS
	HCH	24.22	PASS
Channel Bandwidth: 10MHz			
Modulation	Channel	E.i.r.p [dBm]	Verdict
DFT-QPSK	LCH	24.32	PASS
	MCH	24.43	PASS
	HCH	24.25	PASS
CP-QPSK	LCH	24.62	PASS
	MCH	24.43	PASS
	HCH	24.32	PASS
Channel Bandwidth: 15MHz			
Modulation	Channel	E.i.r.p [dBm]	Verdict
DFT-QPSK	LCH	24.41	PASS
	MCH	24.32	PASS
	HCH	24.23	PASS
CP-QPSK	LCH	24.12	PASS
	MCH	24.23	PASS
	HCH	24.52	PASS
Channel Bandwidth: 20MHz			
Modulation	Channel	E.i.r.p [dBm]	Verdict
DFT-QPSK	LCH	24.32	PASS
	MCH	24.56	PASS
	HCH	24.22	PASS
CP-QPSK	LCH	24.36	PASS
	MCH	24.44	PASS
	HCH	24.22	PASS

5G NR n71

Channel Bandwidth: 5MHz			
Modulation	Channel	E.r.p [dBm]	Verdict
DFT-QPSK	LCH	21.62	PASS
	MCH	21.73	PASS
	HCH	21.54	PASS
CP-QPSK	LCH	21.25	PASS
	MCH	21.26	PASS
	HCH	21.65	PASS
Channel Bandwidth: 10MHz			
Modulation	Channel	E.r.p [dBm]	Verdict
DFT-QPSK	LCH	21.12	PASS
	MCH	21.23	PASS
	HCH	21.64	PASS
CP-QPSK	LCH	21.55	PASS
	MCH	21.68	PASS
	HCH	21.47	PASS
Channel Bandwidth: 15MHz			
Modulation	Channel	E.r.p [dBm]	Verdict
DFT-QPSK	LCH	21.35	PASS
	MCH	21.76	PASS
	HCH	21.27	PASS
CP-QPSK	LCH	21.38	PASS
	MCH	21.19	PASS
	HCH	21.48	PASS
Channel Bandwidth: 20MHz			
Modulation	Channel	E.r.p [dBm]	Verdict
DFT-QPSK	LCH	21.44	PASS
	MCH	21.32	PASS
	HCH	21.53	PASS
CP-QPSK	LCH	21.22	PASS
	MCH	21.44	PASS
	HCH	21.35	PASS

5G NR n77(3450-3550MHz)

Channel Bandwidth: 10MHz			
Modulation	Channel	E.i.r.p [dBm]	Verdict
DFT-QPSK	LCH	24.13	PASS
	MCH	24.24	PASS
	HCH	24.15	PASS
CP-QPSK	LCH	24.26	PASS
	MCH	24.28	PASS
	HCH	24.17	PASS
Channel Bandwidth: 15MHz			
Modulation	Channel	E.i.r.p [dBm]	Verdict
DFT-QPSK	LCH	24.22	PASS
	MCH	24.23	PASS
	HCH	24.15	PASS
CP-QPSK	LCH	24.24	PASS
	MCH	24.25	PASS
	HCH	24.16	PASS
Channel Bandwidth: 20MHz			
Modulation	Channel	E.i.r.p [dBm]	Verdict
DFT-QPSK	LCH	24.40	PASS
	MCH	24.12	PASS
	HCH	24.25	PASS
CP-QPSK	LCH	24.03	PASS
	MCH	24.06	PASS
	HCH	24.28	PASS
Channel Bandwidth: 30MHz			
Modulation	Channel	E.i.r.p [dBm]	Verdict
DFT-QPSK	LCH	24.25	PASS
	MCH	24.26	PASS
	HCH	24.17	PASS
CP-QPSK	LCH	24.05	PASS
	MCH	24.12	PASS
	HCH	24.23	PASS

Channel Bandwidth: 40MHz			
Modulation	Channel	E.i.r.p [dBm]	Verdict
DFT-QPSK	LCH	24.32	PASS
	MCH	24.20	PASS
	HCH	24.11	PASS
CP-QPSK	LCH	24.12	PASS
	MCH	24.33	PASS
	HCH	24.15	PASS
Channel Bandwidth: 50MHz			
Modulation	Channel	E.i.r.p [dBm]	Verdict
DFT-QPSK	LCH	24.12	PASS
	MCH	24.26	PASS
	HCH	24.15	PASS
CP-QPSK	LCH	24.17	PASS
	MCH	24.15	PASS
	HCH	24.29	PASS
Channel Bandwidth: 60MHz			
Modulation	Channel	E.i.r.p [dBm]	Verdict
DFT-QPSK	LCH	24.16	PASS
	MCH	24.25	PASS
	HCH	24.24	PASS
CP-QPSK	LCH	24.32	PASS
	MCH	24.23	PASS
	HCH	24.35	PASS
Channel Bandwidth: 70MHz			
Modulation	Channel	E.i.r.p [dBm]	Verdict
DFT-QPSK	LCH	24.15	PASS
	MCH	24.22	PASS
	HCH	24.13	PASS
CP-QPSK	LCH	24.25	PASS
	MCH	24.24	PASS
	HCH	24.32	PASS

Channel Bandwidth: 80MHz			
Modulation	Channel	E.i.r.p [dBm]	Verdict
DFT-QPSK	LCH	24.31	PASS
	MCH	24.12	PASS
	HCH	24.23	PASS
CP-QPSK	LCH	24.35	PASS
	MCH	24.14	PASS
	HCH	24.12	PASS
Channel Bandwidth: 90MHz			
Modulation	Channel	E.i.r.p [dBm]	Verdict
DFT-QPSK	LCH	24.42	PASS
	MCH	24.30	PASS
	HCH	24.22	PASS
CP-QPSK	LCH	24.24	PASS
	MCH	24.22	PASS
	HCH	24.63	PASS
Channel Bandwidth: 100MHz			
Modulation	Channel	E.i.r.p [dBm]	Verdict
DFT-QPSK	MCH	23.21	PASS
CP-QPSK	MCH	23.32	PASS

5G NR n77(3700-3980MHz)

Channel Bandwidth: 10MHz			
Modulation	Channel	E.i.r.p [dBm]	Verdict
DFT-QPSK	LCH	23.22	PASS
	MCH	23.32	PASS
	HCH	23.53	PASS
CP-QPSK	LCH	23.21	PASS
	MCH	23.31	PASS
	HCH	23.52	PASS
Channel Bandwidth: 15MHz			
Modulation	Channel	E.i.r.p [dBm]	Verdict
DFT-QPSK	LCH	23.42	PASS
	MCH	23.23	PASS
	HCH	23.62	PASS
CP-QPSK	LCH	23.41	PASS
	MCH	23.22	PASS
	HCH	23.61	PASS
Channel Bandwidth: 20MHz			
Modulation	Channel	E.i.r.p [dBm]	Verdict
DFT-QPSK	LCH	23.12	PASS
	MCH	23.32	PASS
	HCH	23.23	PASS
CP-QPSK	LCH	23.12	PASS
	MCH	23.14	PASS
	HCH	23.25	PASS
Channel Bandwidth: 30MHz			
Modulation	Channel	E.i.r.p [dBm]	Verdict
DFT-QPSK	LCH	23.12	PASS
	MCH	23.23	PASS
	HCH	23.35	PASS
CP-QPSK	LCH	23.24	PASS
	MCH	23.22	PASS
	HCH	23.36	PASS

Channel Bandwidth: 40MHz			
Modulation	Channel	E.i.r.p [dBm]	Verdict
DFT-QPSK	LCH	23.22	PASS
	MCH	23.22	PASS
	HCH	23.33	PASS
CP-QPSK	LCH	23.21	PASS
	MCH	23.22	PASS
	HCH	23.37	PASS
Channel Bandwidth: 50MHz			
Modulation	Channel	E.i.r.p [dBm]	Verdict
DFT-QPSK	LCH	23.20	PASS
	MCH	23.22	PASS
	HCH	23.23	PASS
CP-QPSK	LCH	23.65	PASS
	MCH	23.44	PASS
	HCH	23.34	PASS
Channel Bandwidth: 60MHz			
Modulation	Channel	E.i.r.p [dBm]	Verdict
DFT-QPSK	LCH	23.45	PASS
	MCH	23.66	PASS
	HCH	23.27	PASS
CP-QPSK	LCH	23.38	PASS
	MCH	23.59	PASS
	HCH	23.48	PASS
Channel Bandwidth: 70MHz			
Modulation	Channel	E.i.r.p [dBm]	Verdict
DFT-QPSK	LCH	23.26	PASS
	MCH	23.32	PASS
	HCH	23.51	PASS
CP-QPSK	LCH	23.42	PASS
	MCH	23.23	PASS
	HCH	23.64	PASS

Channel Bandwidth: 80MHz			
Modulation	Channel	E.i.r.p [dBm]	Verdict
DFT-QPSK	LCH	23.61	PASS
	MCH	23.22	PASS
	HCH	23.32	PASS
CP-QPSK	LCH	23.53	PASS
	MCH	23.45	PASS
	HCH	23.54	PASS
Channel Bandwidth: 90MHz			
Modulation	Channel	E.i.r.p [dBm]	Verdict
DFT-QPSK	LCH	23.42	PASS
	MCH	23.22	PASS
	HCH	23.26	PASS
CP-QPSK	LCH	23.65	PASS
	MCH	23.44	PASS
	HCH	23.37	PASS
Channel Bandwidth: 100MHz			
Modulation	Channel	E.i.r.p [dBm]	Verdict
DFT-QPSK	LCH	22.12	PASS
	MCH	22.25	PASS
	HCH	22.26	PASS
CP-QPSK	LCH	22.51	PASS
	MCH	22.12	PASS
	HCH	22.25	PASS

5G NR n78(3450-3550MHz)

Channel Bandwidth: 20MHz			
Modulation	Channel	E.i.r.p [dBm]	Verdict
DFT-QPSK	LCH	24.12	PASS
	MCH	24.35	PASS
	HCH	24.25	PASS
CP-QPSK	LCH	24.25	PASS
	MCH	24.45	PASS
	HCH	24.68	PASS
Channel Bandwidth: 30MHz			
Modulation	Channel	E.i.r.p [dBm]	Verdict
DFT-QPSK	LCH	24.15	PASS
	MCH	24.25	PASS
	HCH	24.36	PASS
CP-QPSK	LCH	24.25	PASS
	MCH	24.12	PASS
	HCH	24.25	PASS
Channel Bandwidth: 40MHz			
Modulation	Channel	E.i.r.p [dBm]	Verdict
DFT-QPSK	LCH	24.15	PASS
	MCH	24.35	PASS
	HCH	24.65	PASS
CP-QPSK	LCH	24.25	PASS
	MCH	24.12	PASS
	HCH	24.15	PASS
Channel Bandwidth: 50MHz			
Modulation	Channel	E.i.r.p [dBm]	Verdict
DFT-QPSK	LCH	24.32	PASS
	MCH	24.24	PASS
	HCH	24.15	PASS
CP-QPSK	LCH	24.25	PASS
	MCH	24.39	PASS
	HCH	24.57	PASS

Channel Bandwidth: 60MHz			
Modulation	Channel	E.i.r.p [dBm]	Verdict
DFT-QPSK	LCH	24.45	PASS
	MCH	24.26	PASS
	HCH	24.24	PASS
CP-QPSK	LCH	24.12	PASS
	MCH	24.36	PASS
	HCH	24.25	PASS
Channel Bandwidth: 70MHz			
Modulation	Channel	E.i.r.p [dBm]	Verdict
DFT-QPSK	LCH	24.45	PASS
	MCH	24.23	PASS
	HCH	24.25	PASS
CP-QPSK	LCH	24.12	PASS
	MCH	24.36	PASS
	HCH	24.25	PASS
Channel Bandwidth: 80MHz			
Modulation	Channel	E.i.r.p [dBm]	Verdict
DFT-QPSK	LCH	24.12	PASS
	MCH	24.16	PASS
	HCH	24.71	PASS
CP-QPSK	LCH	24.21	PASS
	MCH	24.25	PASS
	HCH	24.26	PASS
Channel Bandwidth: 90MHz			
Modulation	Channel	E.i.r.p [dBm]	Verdict
DFT-QPSK	LCH	24.12	PASS
	MCH	24.36	PASS
	HCH	24.54	PASS
CP-QPSK	LCH	24.21	PASS
	MCH	24.21	PASS
	HCH	24.23	PASS

Channel Bandwidth: 100MHz			
Modulation	Channel	E.i.r.p [dBm]	Verdict
DFT-QPSK	MCH	24.45	PASS
CP-QPSK	MCH	24.27	PASS

Max. Conducted Output Power

The test data refer to the module (FCC ID: XMR2022RG520NNA), the granted date: 08/24/2022.

Test result: Pass

4. Spurious Radiated Emissions

4.1 Standard Applicable

According to §22.917(a), the power of any emissions 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.

According to §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.

According to §27.53(h), 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.

According to §27.53(g) the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, by at least $43 + 10 \log(P)$ dB.

4.2 Test Procedure

1. The setup of EUT is according with per ANSI/TIA-603-E and ANSI C63.4-2014 measurement procedure.
2. The measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the antenna height and polarization as well as EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. The test was performed by placing the EUT on 3-orthogonal axis.
3. The frequency range up to tenth harmonic of the fundamental frequency was investigated.
4. Remove the EUT and replace it with substitution antenna. A signal generator was connected to the substitution antenna by a non-radiating cable. The absolute levels of the spurious emissions were measured by the substitution.

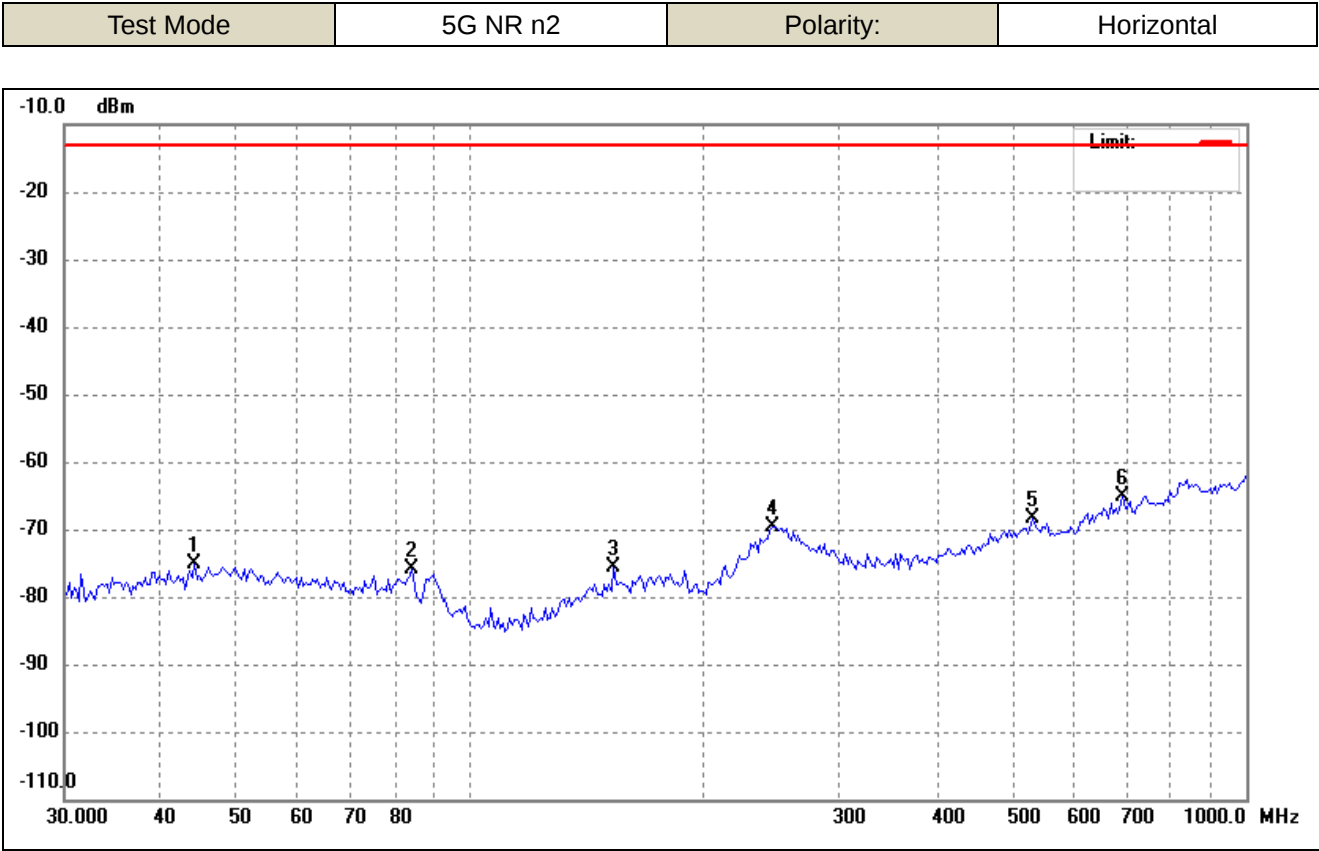
Spurious attenuation limit in dB = $43 + 10 \log_{10}(\text{power out in Watts})$

4.3 Summary of Test Results/Plots

Note: 1. this EUT was tested in 3 orthogonal positions and the worst case position data was reported.

- 2. All test modes (different bandwidth and different modulation) are performed, but only the worst case is recorded in this report.*

➤ Spurious Emissions Below 1GHz



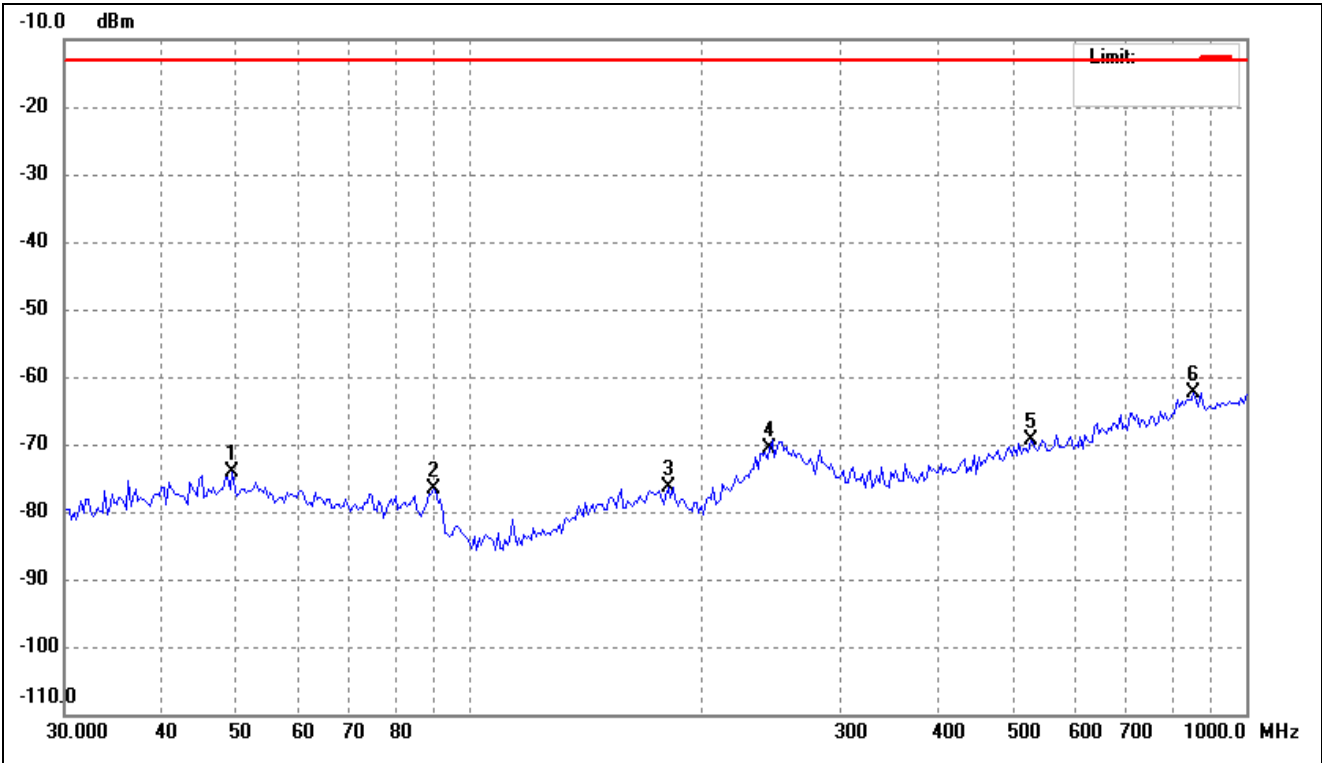
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBm)	dB	(dBm)	(dBm)	(dB)	
1	44.1544	-77.94	2.94	-75.00	-13.00	-62.00	ERP
2	84.2839	-74.52	-1.44	-75.96	-13.00	-62.96	ERP
3	153.1627	-76.64	0.91	-75.73	-13.00	-62.73	ERP
4	245.2606	-77.28	7.74	-69.54	-13.00	-56.54	ERP
5	531.2910	-75.94	7.57	-68.37	-13.00	-55.37	ERP
6	693.9101	-75.94	10.82	-65.12	-13.00	-52.12	ERP

Test Mode	5G NR n2	Polarity:	Vertical
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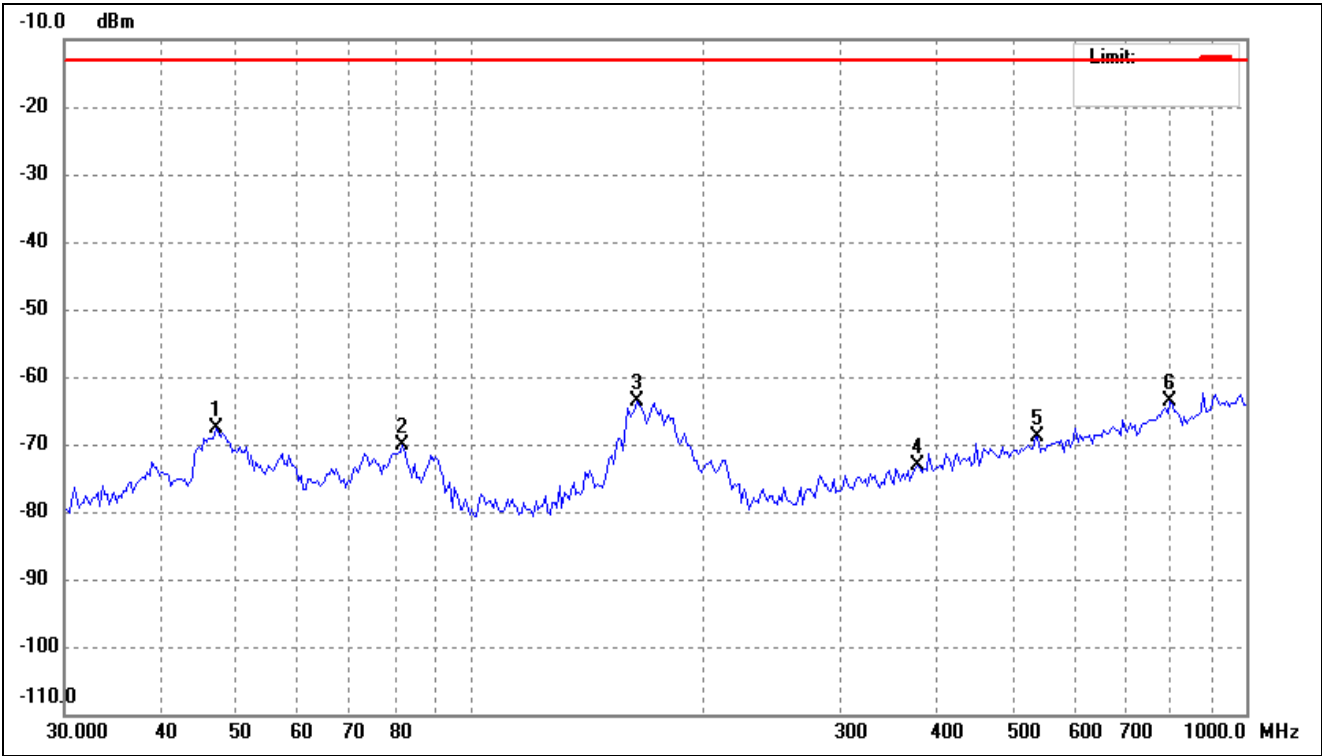
No.	Frequency (MHz)	Reading (dBm)	Correct dB	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	45.7333	-70.55	3.09	-67.46	-13.00	-54.46	ERP
2	81.9478	-70.40	-0.12	-70.52	-13.00	-57.52	ERP
3	163.1623	-71.05	7.37	-63.68	-13.00	-50.68	ERP
4	353.4472	-78.91	4.41	-74.50	-13.00	-61.50	ERP
5	502.2473	-75.29	7.21	-68.08	-13.00	-55.08	ERP
6	906.3041	-75.30	12.29	-63.01	-13.00	-50.01	ERP

Test Mode	5G NR n5	Polarity:	Horizontal
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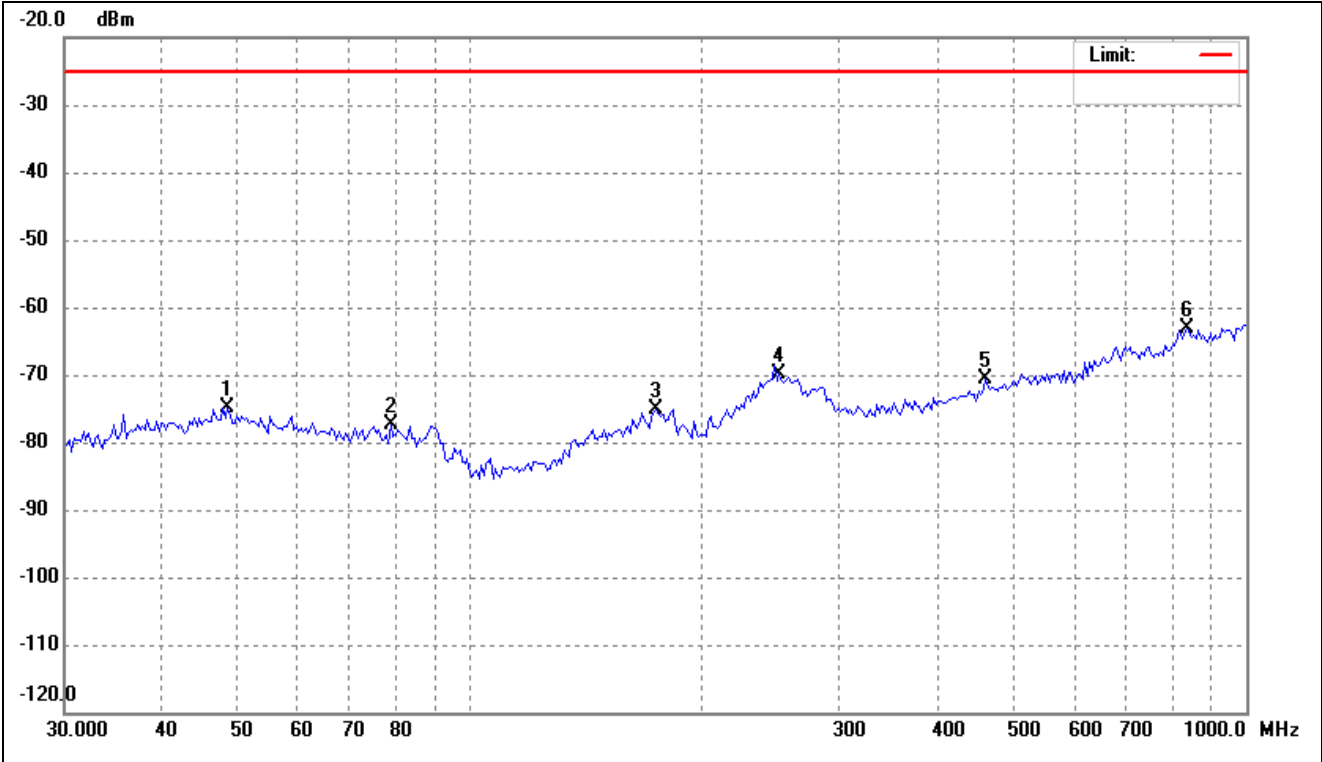
No.	Frequency (MHz)	Reading (dBm)	Correct dB	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	49.4087	-77.44	3.44	-74.00	-13.00	-61.00	ERP
2	89.7866	-74.31	-2.40	-76.71	-13.00	-63.71	ERP
3	180.0304	-77.25	0.98	-76.27	-13.00	-63.27	ERP
4	243.5431	-78.12	7.44	-70.68	-13.00	-57.68	ERP
5	527.5707	-76.91	7.54	-69.37	-13.00	-56.37	ERP
6	856.7597	-75.68	13.42	-62.26	-13.00	-49.26	ERP

Test Mode	5G NR n5	Polarity:	Vertical
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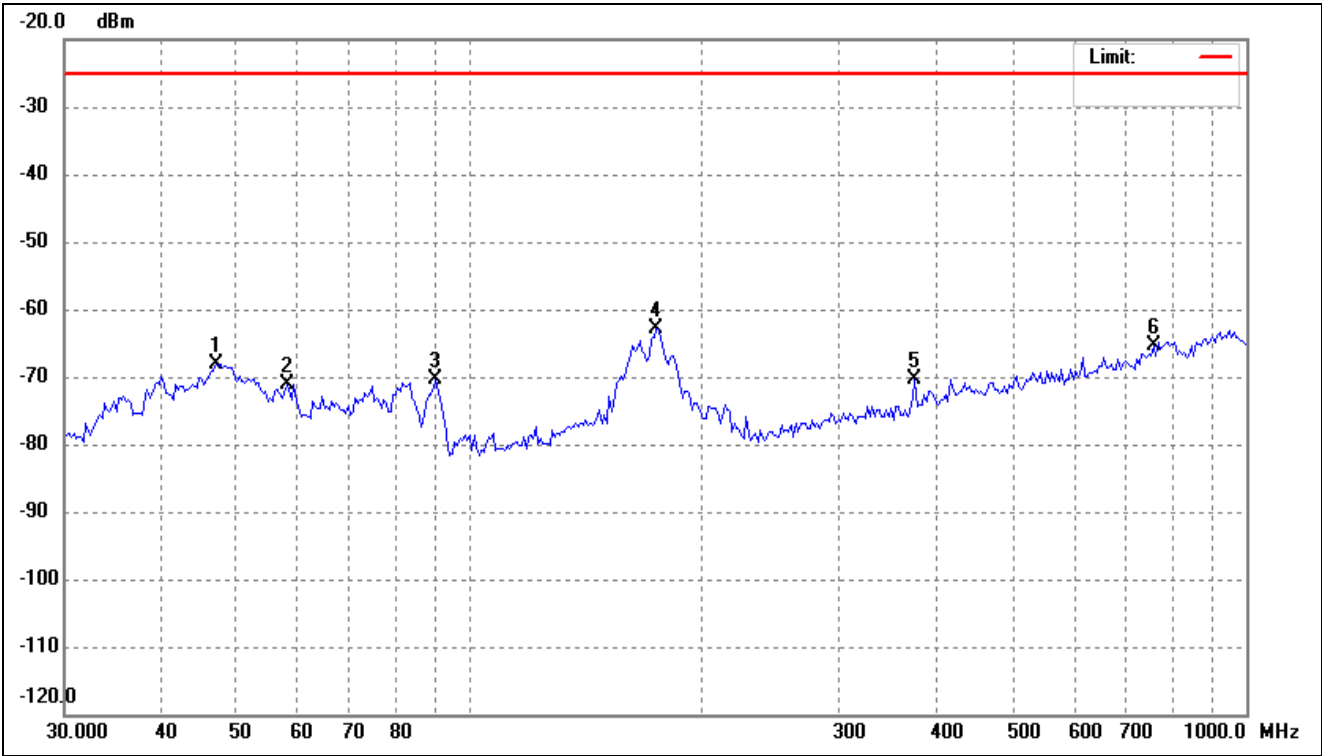
No.	Frequency (MHz)	Reading (dBm)	Correct dB	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	47.0371	-70.73	3.22	-67.51	-13.00	-54.51	ERP
2	81.9478	-70.01	-0.12	-70.13	-13.00	-57.13	ERP
3	164.3129	-70.89	7.17	-63.72	-13.00	-50.72	ERP
4	376.5228	-78.13	4.89	-73.24	-13.00	-60.24	ERP
5	538.8107	-76.61	7.81	-68.80	-13.00	-55.80	ERP
6	798.6205	-76.18	12.62	-63.56	-13.00	-50.56	ERP

Test Mode	5G NR n7	Polarity:	Horizontal
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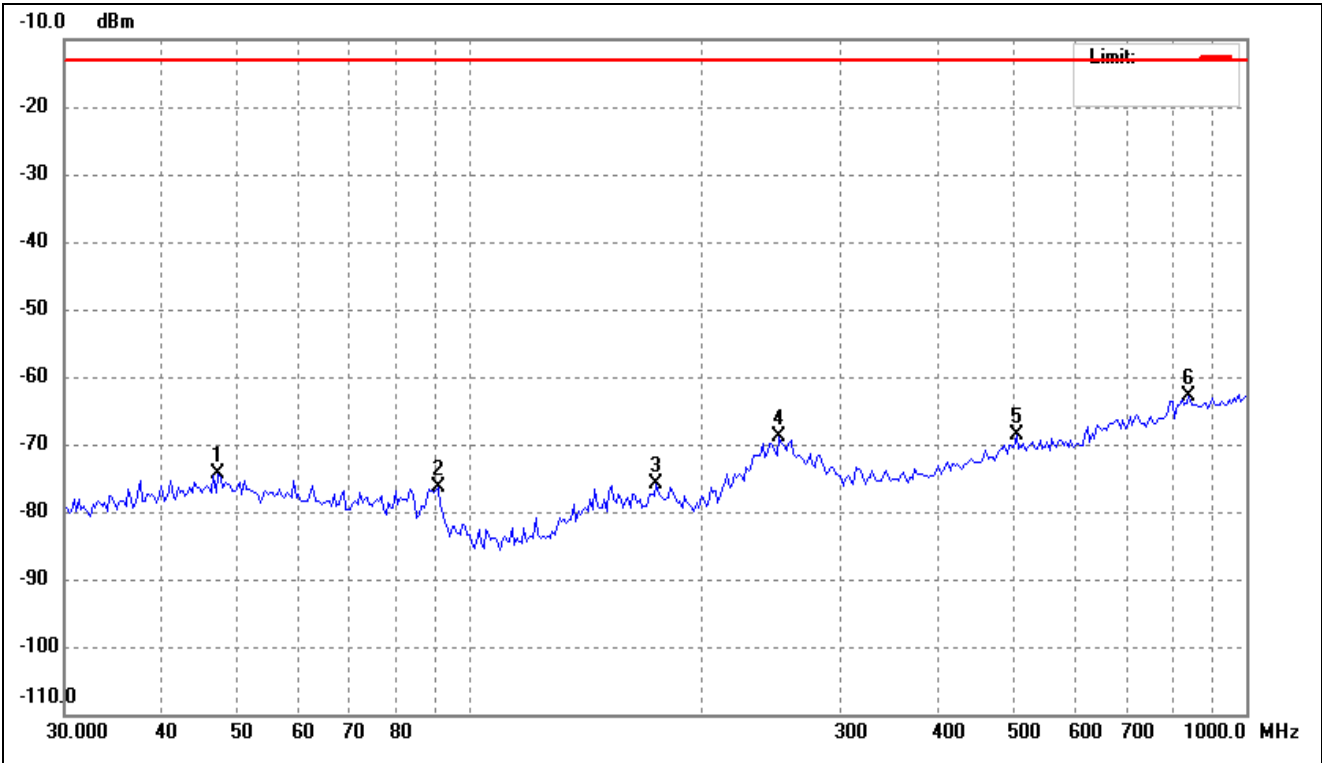
No.	Frequency (MHz)	Reading (dBm)	Correct dB	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	48.7191	-78.16	3.38	-74.78	-25.00	-49.78	ERP
2	79.1185	-76.95	-0.53	-77.48	-25.00	-52.48	ERP
3	173.8147	-76.07	0.98	-75.09	-25.00	-50.09	ERP
4	250.4859	-78.34	8.51	-69.83	-25.00	-44.83	ERP
5	461.6313	-76.99	6.27	-70.72	-25.00	-45.72	ERP
6	838.8870	-76.71	13.50	-63.21	-25.00	-38.21	ERP

Test Mode	5G NR n7	Polarity:	Vertical
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No.	Frequency (MHz)	Reading (dBm)	Correct dB	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	47.0371	-71.37	3.22	-68.15	-25.00	-43.15	ERP
2	58.0759	-74.39	3.33	-71.06	-25.00	-46.06	ERP
3	90.4198	-68.14	-2.26	-70.40	-25.00	-45.40	ERP
4	173.8147	-68.39	5.50	-62.89	-25.00	-37.89	ERP
5	373.8862	-75.26	4.83	-70.43	-25.00	-45.43	ERP
6	760.2867	-76.95	11.64	-65.31	-25.00	-40.31	ERP

Test Mode	5G NR n12	Polarity:	Horizontal
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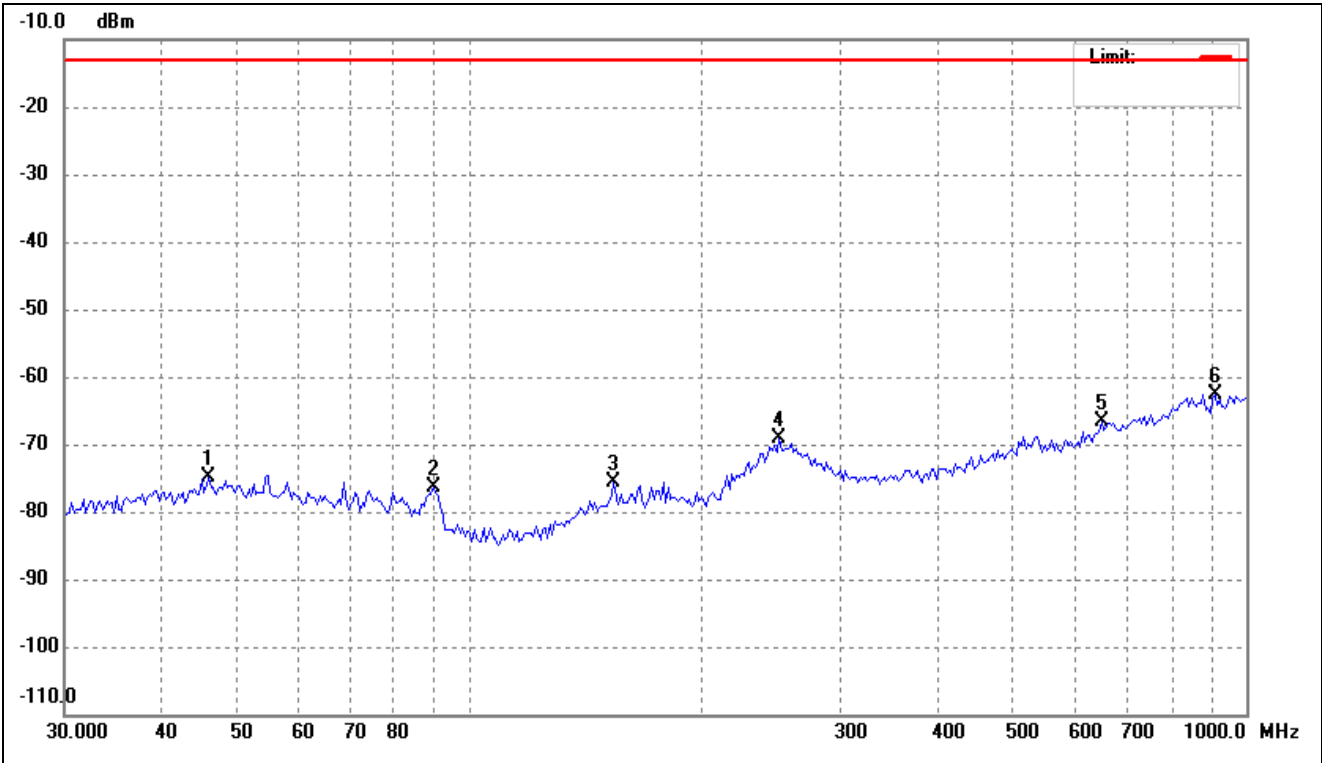
No.	Frequency (MHz)	Reading (dBm)	Correct dB	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	47.3688	-77.64	3.25	-74.39	-13.00	-61.39	ERP
2	91.0574	-73.77	-2.65	-76.42	-13.00	-63.42	ERP
3	173.8147	-76.92	0.98	-75.94	-13.00	-62.94	ERP
4	250.4859	-77.30	8.51	-68.79	-13.00	-55.79	ERP
5	505.7891	-75.95	7.34	-68.61	-13.00	-55.61	ERP
6	844.8028	-76.49	13.63	-62.86	-13.00	-49.86	ERP

Test Mode	5G NR n12	Polarity:	Vertical
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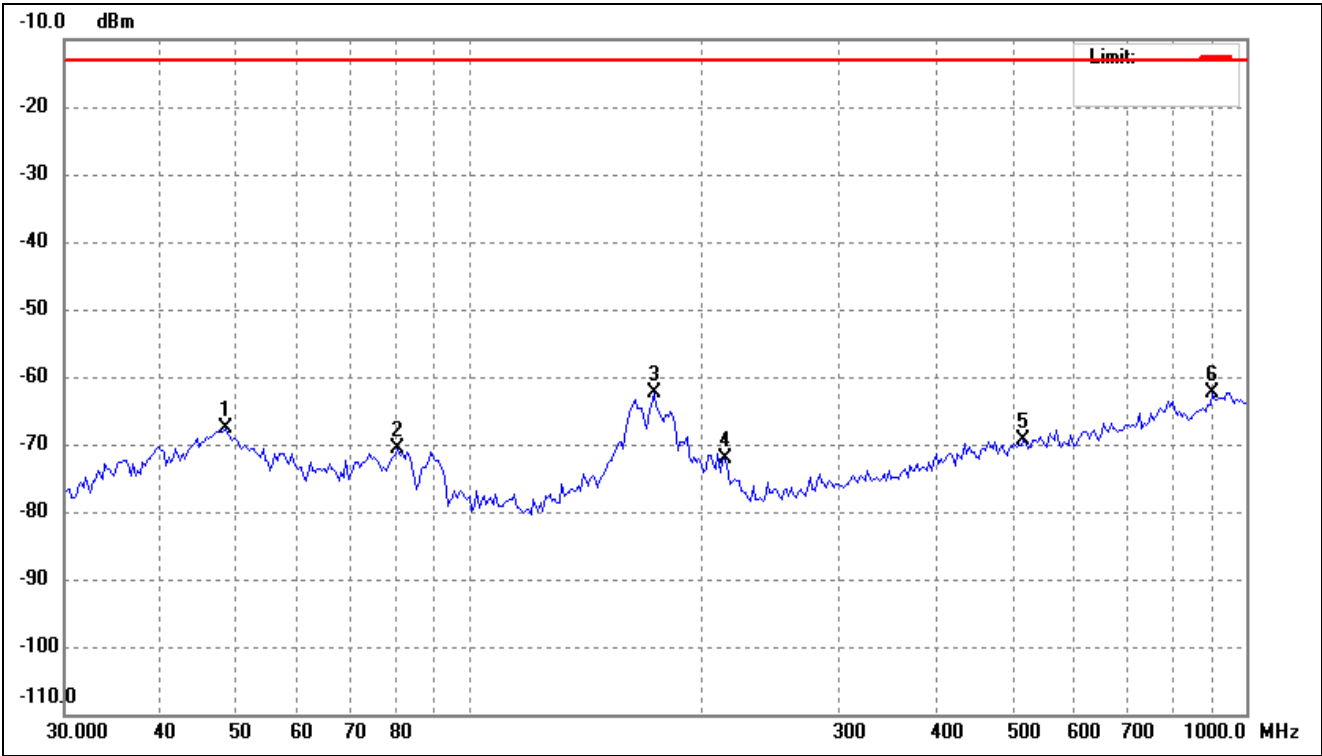
No.	Frequency (MHz)	Reading (dBm)	Correct dB	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	46.7077	-71.00	3.19	-67.81	-13.00	-54.81	ERP
2	79.1185	-71.30	0.64	-70.66	-13.00	-57.66	ERP
3	163.1623	-70.14	7.37	-62.77	-13.00	-49.77	ERP
4	322.5896	-77.43	3.78	-73.65	-13.00	-60.65	ERP
5	481.5112	-77.38	6.84	-70.54	-13.00	-57.54	ERP
6	809.9238	-75.95	12.13	-63.82	-13.00	-50.82	ERP

Test Mode	5G NR n13	Polarity:	Horizontal
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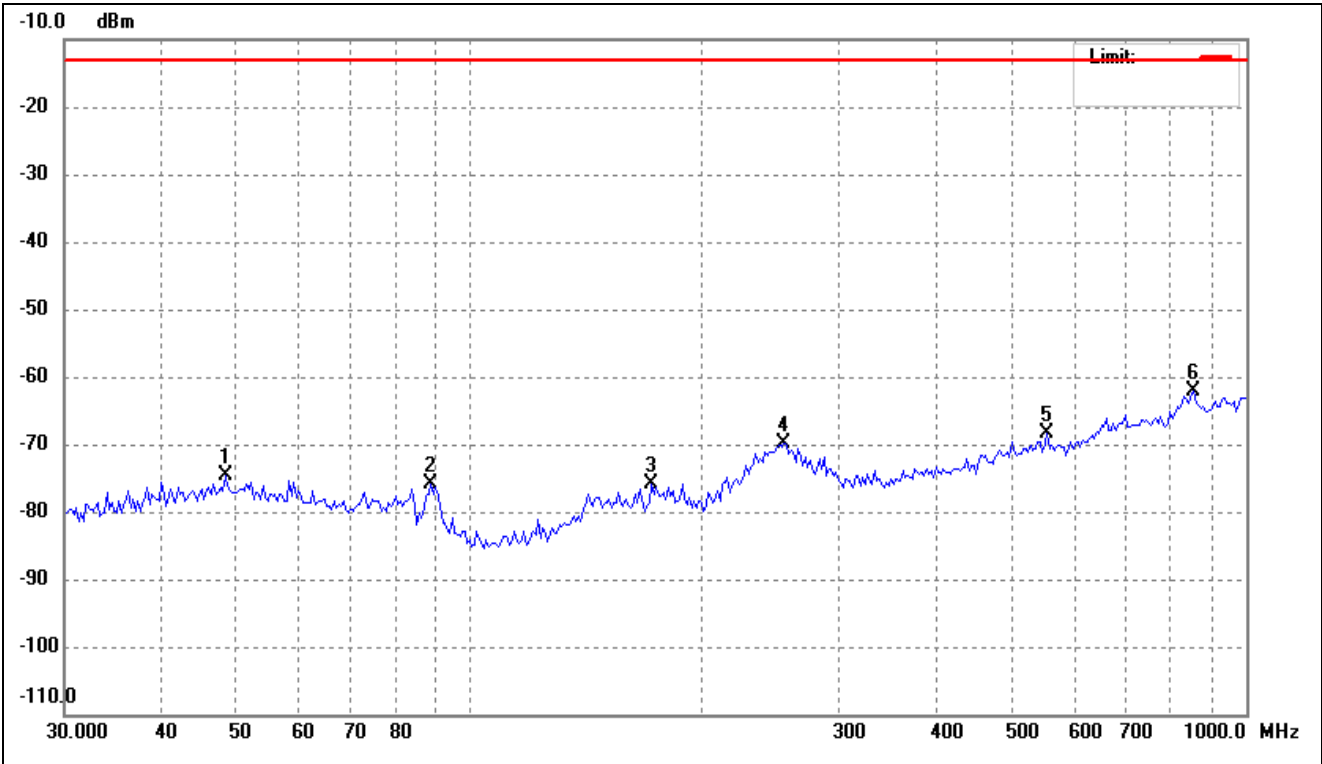
No.	Frequency (MHz)	Reading (dBm)	Correct dB	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	46.0558	-77.95	3.13	-74.82	-13.00	-61.82	ERP
2	89.7866	-73.87	-2.40	-76.27	-13.00	-63.27	ERP
3	153.1627	-76.50	0.91	-75.59	-13.00	-62.59	ERP
4	250.4859	-77.71	8.51	-69.20	-13.00	-56.20	ERP
5	651.3831	-76.34	9.63	-66.71	-13.00	-53.71	ERP
6	912.6953	-76.02	13.38	-62.64	-13.00	-49.64	ERP

Test Mode	5G NR n13	Polarity:	Vertical
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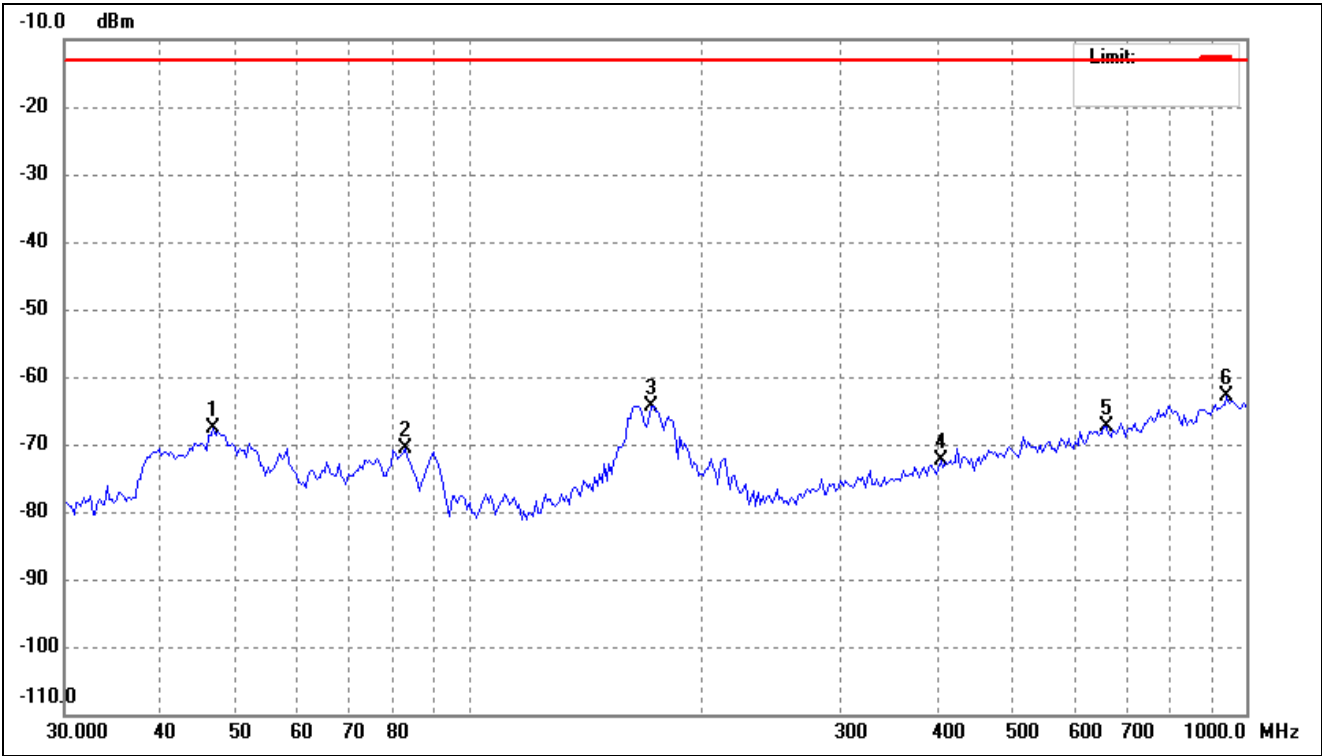
No.	Frequency (MHz)	Reading (dBm)	Correct dB	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	48.3780	-71.01	3.35	-67.66	-13.00	-54.66	ERP
2	80.8042	-70.84	0.19	-70.65	-13.00	-57.65	ERP
3	172.5976	-67.98	5.72	-62.26	-13.00	-49.26	ERP
4	213.1035	-73.21	1.14	-72.07	-13.00	-59.07	ERP
5	516.5651	-76.75	7.44	-69.31	-13.00	-56.31	ERP
6	906.3041	-74.61	12.29	-62.32	-13.00	-49.32	ERP

Test Mode	5G NR n25	Polarity:	Horizontal
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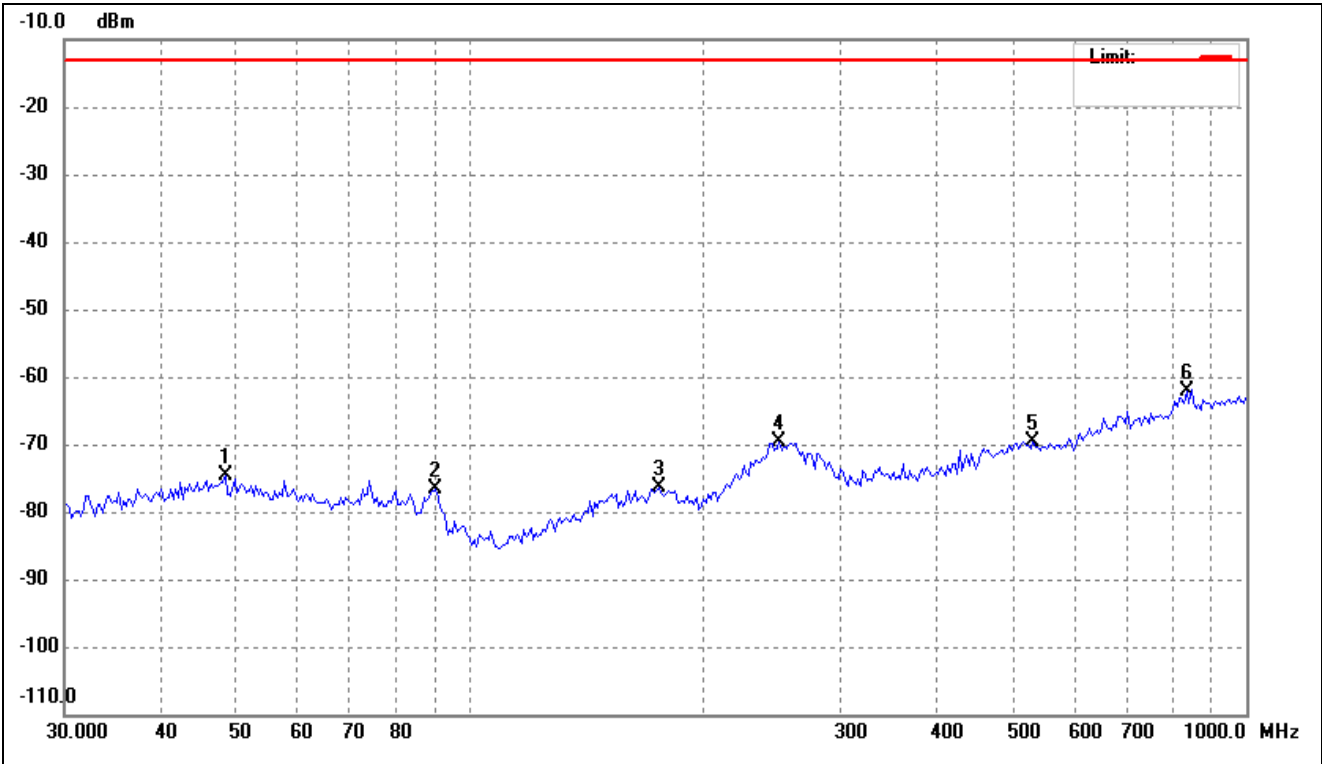
No.	Frequency (MHz)	Reading (dBm)	Correct dB	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	48.3780	-78.04	3.35	-74.69	-13.00	-61.69	ERP
2	89.1579	-73.54	-2.29	-75.83	-13.00	-62.83	ERP
3	171.3890	-76.78	0.98	-75.80	-13.00	-62.80	ERP
4	254.0312	-77.99	8.21	-69.78	-13.00	-56.78	ERP
5	554.1708	-76.23	7.78	-68.45	-13.00	-55.45	ERP
6	856.7597	-75.56	13.42	-62.14	-13.00	-49.14	ERP

Test Mode	5G NR n25	Polarity:	Vertical
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No.	Frequency (MHz)	Reading (dBm)	Correct dB	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	46.7077	-70.88	3.19	-67.69	-13.00	-54.69	ERP
2	82.5257	-70.43	-0.27	-70.70	-13.00	-57.70	ERP
3	171.3890	-70.26	5.93	-64.33	-13.00	-51.33	ERP
4	403.9335	-77.73	5.44	-72.29	-13.00	-59.29	ERP
5	660.6025	-77.05	9.59	-67.46	-13.00	-54.46	ERP
6	945.3336	-75.47	12.59	-62.88	-13.00	-49.88	ERP

Test Mode	5G NR n26	Polarity:	Horizontal
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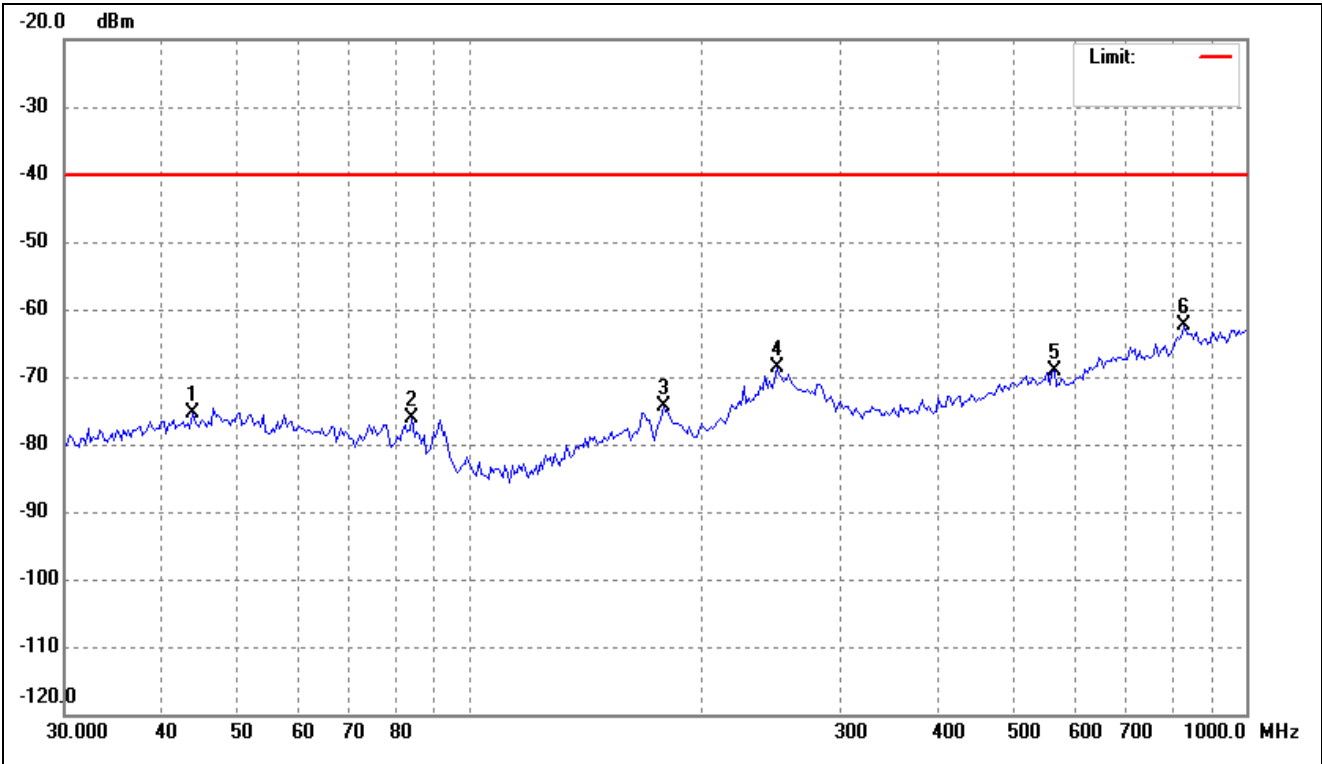
No.	Frequency (MHz)	Reading (dBm)	Correct (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	48.3780	-78.03	3.35	-74.68	-13.00	-61.68	ERP
2	90.4198	-74.14	-2.52	-76.66	-13.00	-63.66	ERP
3	175.0404	-77.36	0.98	-76.38	-13.00	-63.38	ERP
4	250.4859	-78.18	8.51	-69.67	-13.00	-56.67	ERP
5	531.2910	-77.17	7.57	-69.60	-13.00	-56.60	ERP
6	838.8870	-75.69	13.50	-62.19	-13.00	-49.19	ERP

Test Mode	5G NR n26	Polarity:	Vertical
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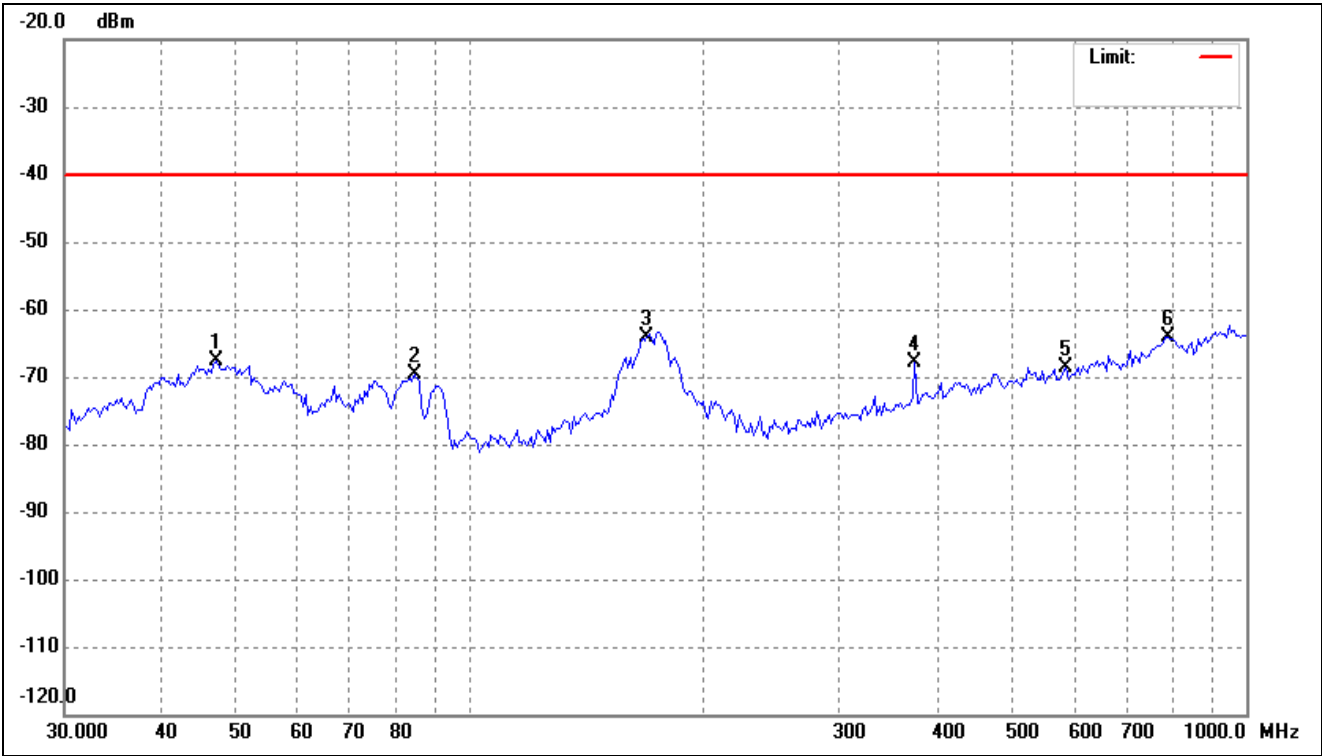
No.	Frequency (MHz)	Reading (dBm)	Correct dB	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	46.7077	-70.78	3.19	-67.59	-13.00	-54.59	ERP
2	81.3740	-70.64	0.04	-70.60	-13.00	-57.60	ERP
3	162.0197	-71.48	7.57	-63.91	-13.00	-50.91	ERP
4	194.4985	-73.41	2.11	-71.30	-13.00	-58.30	ERP
5	381.8520	-77.13	5.00	-72.13	-13.00	-59.13	ERP
6	793.0281	-76.06	12.48	-63.58	-13.00	-50.58	ERP

Test Mode	5G NR n30	Polarity:	Horizontal
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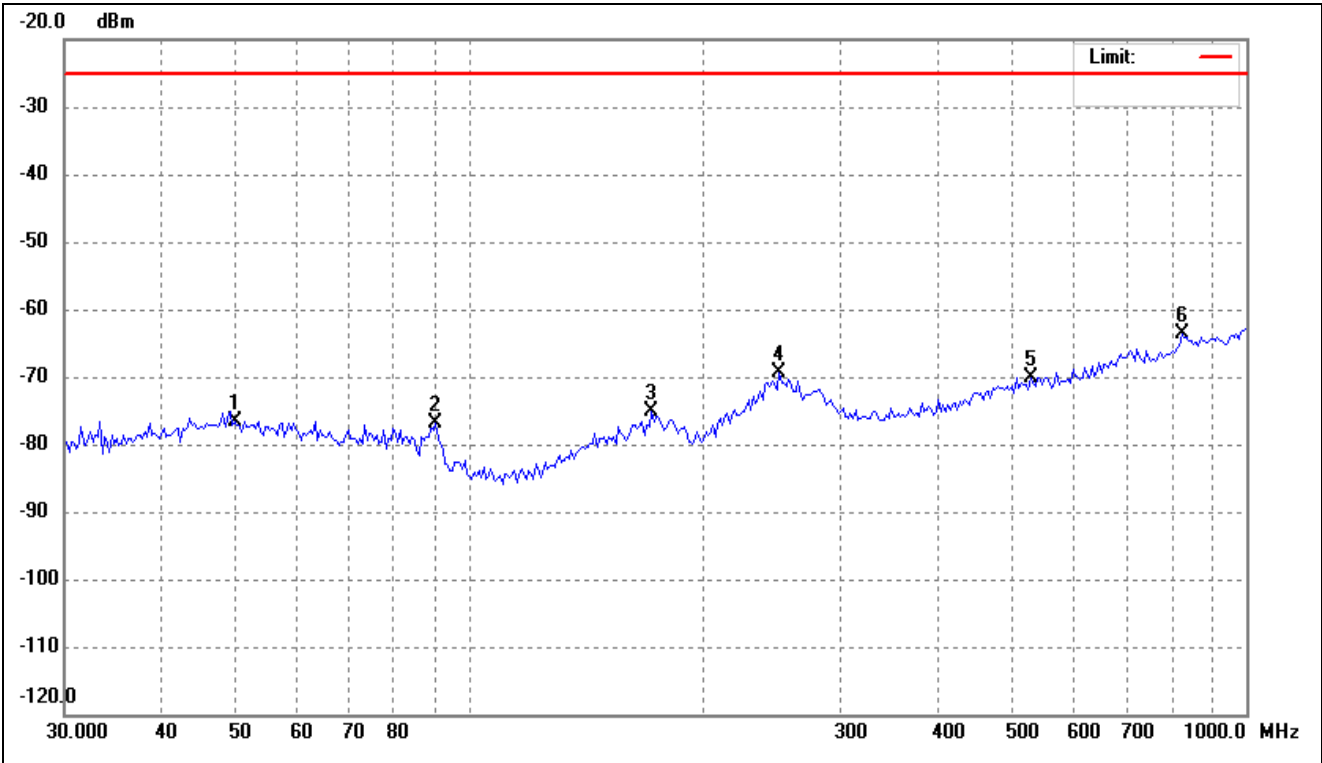
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBm)	dB	(dBm)	(dBm)	(dB)	
1	43.8452	-78.24	2.92	-75.32	-40.00	-35.32	ERP
2	84.2839	-74.76	-1.44	-76.20	-40.00	-36.20	ERP
3	177.5179	-75.38	0.98	-74.40	-40.00	-34.40	ERP
4	248.7319	-76.97	8.33	-68.64	-40.00	-28.64	ERP
5	565.9776	-76.97	7.88	-69.09	-40.00	-29.09	ERP
6	833.0127	-75.64	13.37	-62.27	-40.00	-22.27	ERP

Test Mode	5G NR n30	Polarity:	Vertical
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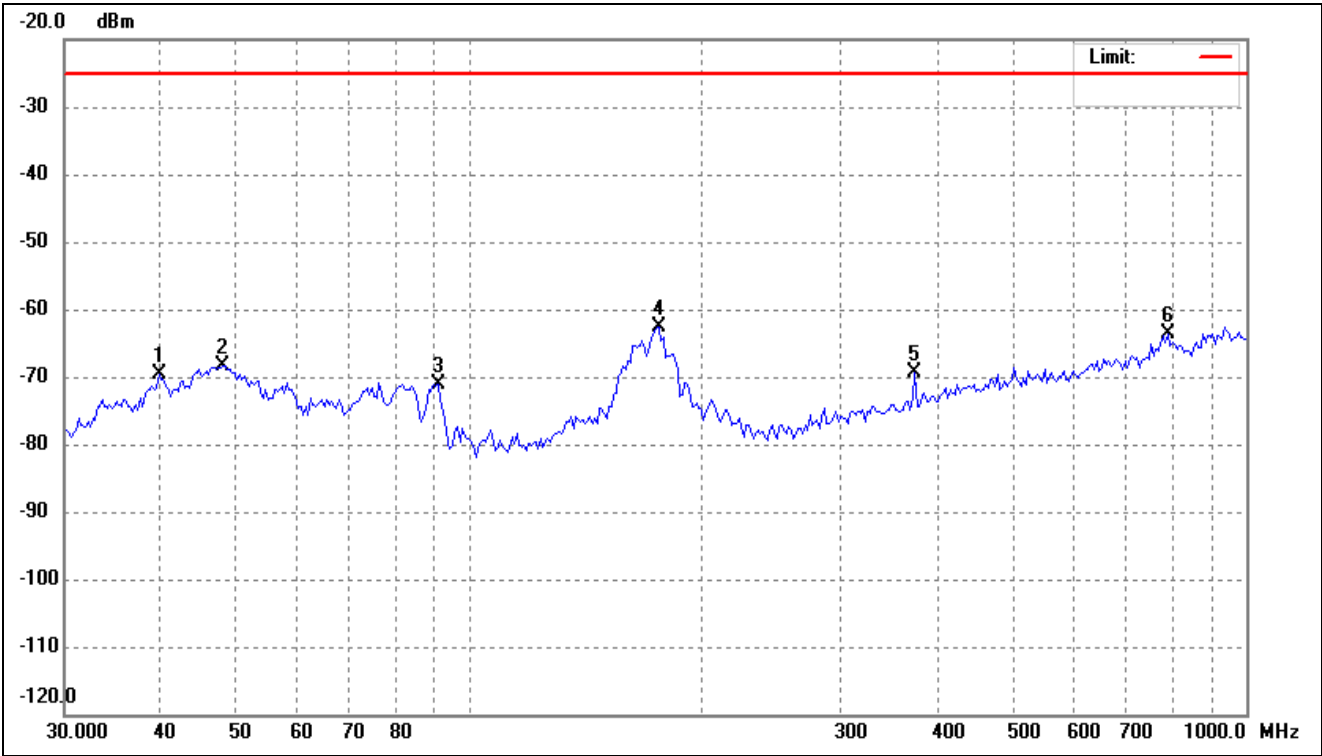
No.	Frequency (MHz)	Reading (dBm)	Correct dB	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	47.0371	-70.91	3.22	-67.69	-40.00	-27.69	ERP
2	84.8783	-68.79	-0.90	-69.69	-40.00	-29.69	ERP
3	168.9970	-70.55	6.35	-64.20	-40.00	-24.20	ERP
4	373.8862	-72.81	4.83	-67.98	-40.00	-27.98	ERP
5	586.2172	-77.11	8.60	-68.51	-40.00	-28.51	ERP
6	793.0281	-76.57	12.48	-64.09	-40.00	-24.09	ERP

Test Mode	5G NR n38	Polarity:	Horizontal
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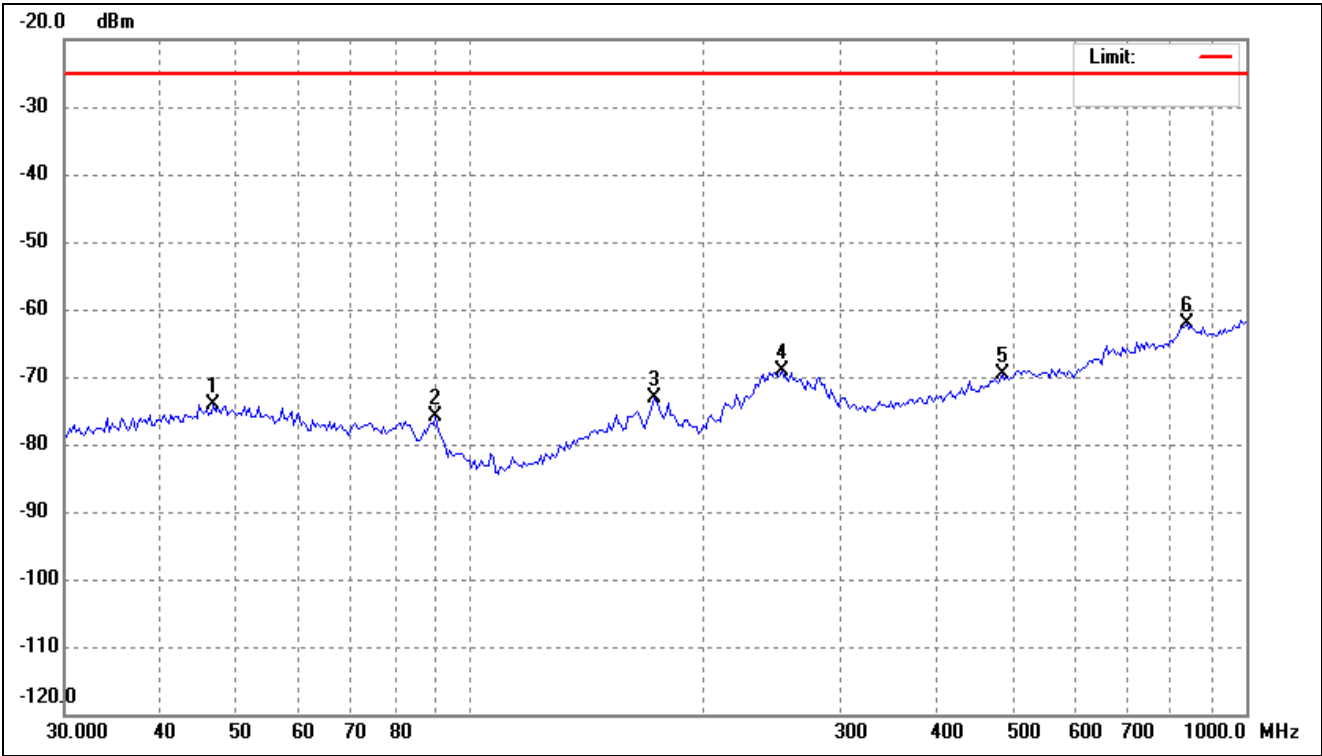
No.	Frequency (MHz)	Reading (dBm)	Correct dB	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	49.7571	-80.01	3.48	-76.53	-25.00	-51.53	ERP
2	90.4198	-74.46	-2.52	-76.98	-25.00	-51.98	ERP
3	171.3890	-75.98	0.98	-75.00	-25.00	-50.00	ERP
4	250.4859	-77.76	8.51	-69.25	-25.00	-44.25	ERP
5	527.5707	-77.56	7.54	-70.02	-25.00	-45.02	ERP
6	827.1795	-76.92	13.24	-63.68	-25.00	-38.68	ERP

Test Mode	5G NR n38	Polarity:	Vertical
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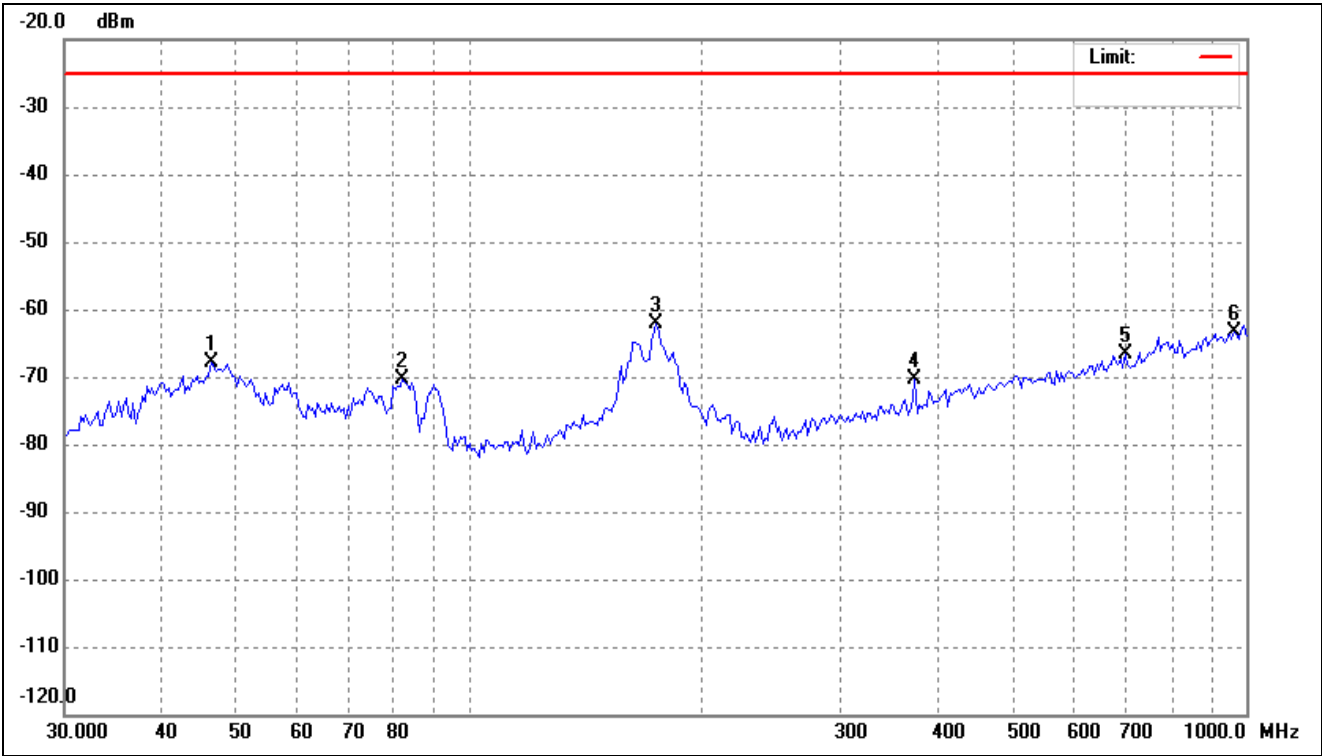
No.	Frequency (MHz)	Reading (dBm)	Correct dB	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	39.7371	-72.08	2.53	-69.55	-25.00	-44.55	ERP
2	48.0392	-71.69	3.31	-68.38	-25.00	-43.38	ERP
3	91.0574	-68.83	-2.22	-71.05	-25.00	-46.05	ERP
4	175.0404	-67.95	5.29	-62.66	-25.00	-37.66	ERP
5	373.8862	-74.30	4.83	-69.47	-25.00	-44.47	ERP
6	793.0281	-76.22	12.48	-63.74	-25.00	-38.74	ERP

Test Mode	5G NR n41	Polarity:	Horizontal
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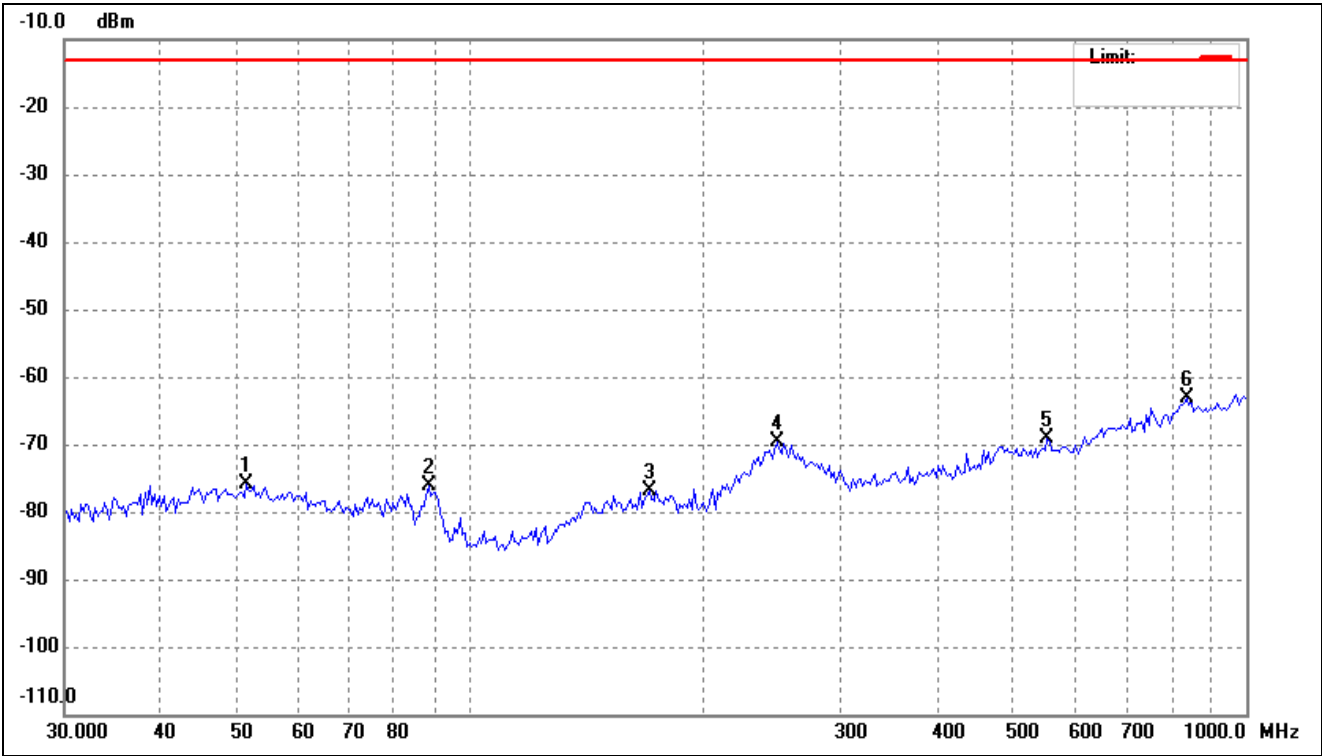
No.	Frequency (MHz)	Reading (dBm)	Correct dB	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	46.7077	-77.31	3.19	-74.12	-25.00	-49.12	ERP
2	90.4198	-73.23	-2.52	-75.75	-25.00	-50.75	ERP
3	172.5976	-74.05	0.98	-73.07	-25.00	-48.07	ERP
4	252.2523	-77.59	8.36	-69.23	-25.00	-44.23	ERP
5	484.9068	-76.58	6.89	-69.69	-25.00	-44.69	ERP
6	838.8870	-75.65	13.50	-62.15	-25.00	-37.15	ERP

Test Mode	5G NR n41	Polarity:	Vertical
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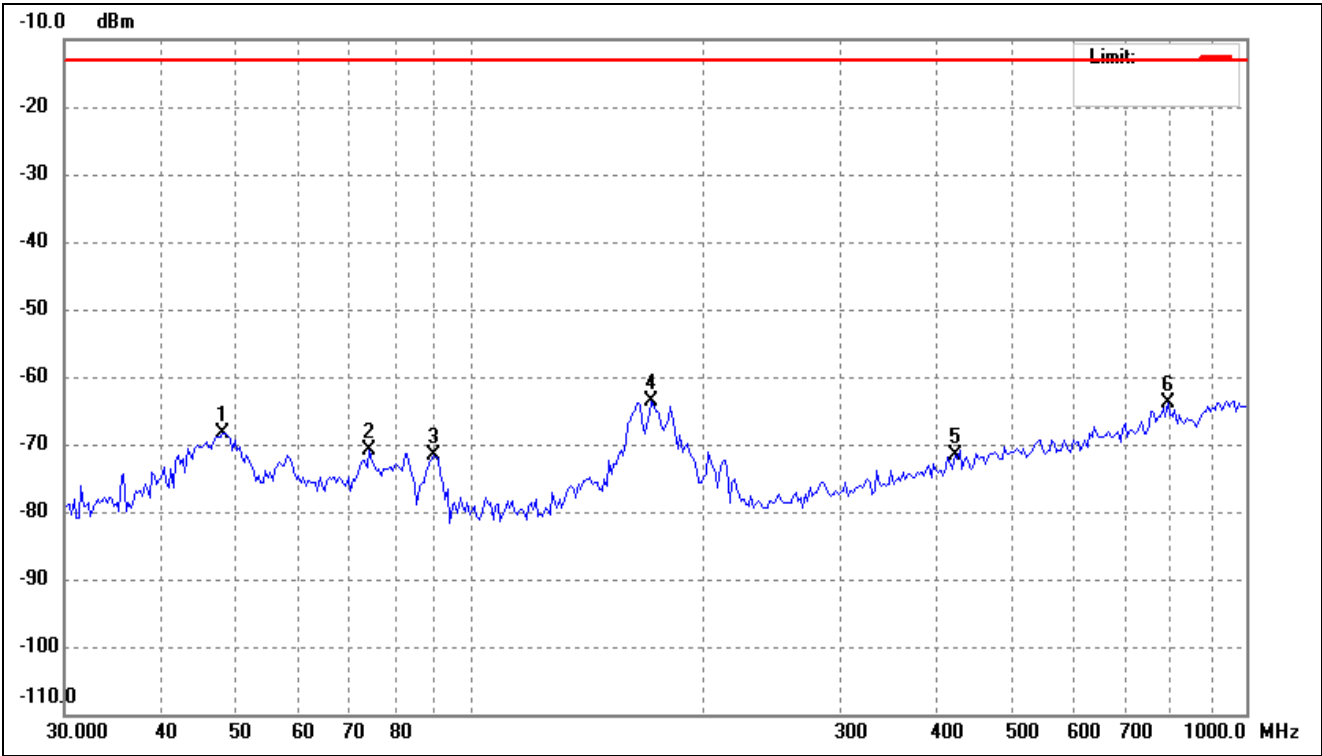
No.	Frequency (MHz)	Reading (dBm)	Correct dB	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	46.3806	-71.03	3.16	-67.87	-25.00	-42.87	ERP
2	81.9478	-70.37	-0.12	-70.49	-25.00	-45.49	ERP
3	173.8147	-67.50	5.50	-62.00	-25.00	-37.00	ERP
4	373.8862	-75.11	4.83	-70.28	-25.00	-45.28	ERP
5	698.8035	-76.59	10.07	-66.52	-25.00	-41.52	ERP
6	965.4742	-76.06	12.75	-63.31	-25.00	-38.31	ERP

Test Mode	5G NR n66	Polarity:	Horizontal
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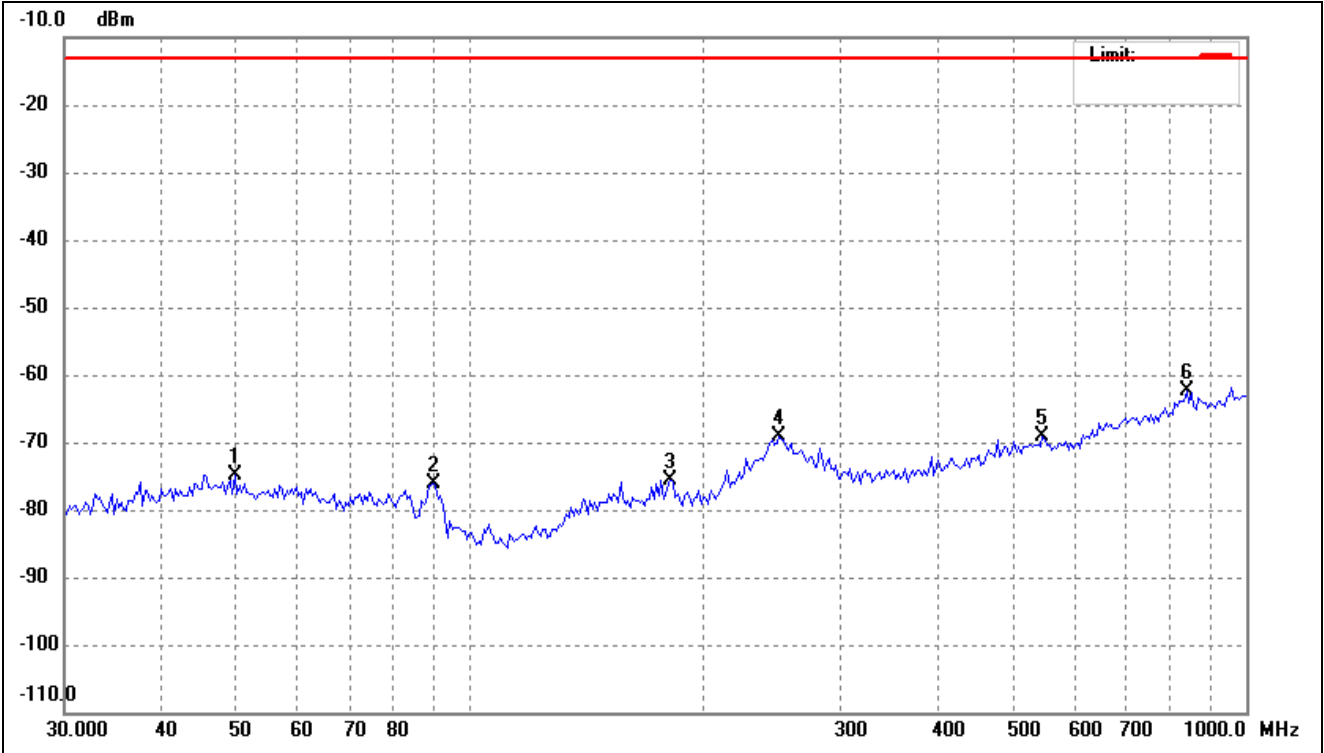
No.	Frequency (MHz)	Reading (dBm)	Correct (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	51.5365	-79.10	3.31	-75.79	-13.00	-62.79	ERP
2	88.5336	-73.97	-2.18	-76.15	-13.00	-63.15	ERP
3	170.1888	-77.84	0.98	-76.86	-13.00	-63.86	ERP
4	248.7319	-78.06	8.33	-69.73	-13.00	-56.73	ERP
5	554.1708	-76.84	7.78	-69.06	-13.00	-56.06	ERP
6	838.8870	-76.70	13.50	-63.20	-13.00	-50.20	ERP

Test Mode	5G NR n66	Polarity:	Vertical
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No.	Frequency (MHz)	Reading (dBm)	Correct dB	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	48.0392	-71.71	3.31	-68.40	-13.00	-55.40	ERP
2	74.2696	-72.84	1.94	-70.90	-13.00	-57.90	ERP
3	89.7866	-69.35	-2.22	-71.57	-13.00	-58.57	ERP
4	171.3890	-69.49	5.93	-63.56	-13.00	-50.56	ERP
5	421.3287	-77.31	5.75	-71.56	-13.00	-58.56	ERP
6	793.0281	-76.39	12.48	-63.91	-13.00	-50.91	ERP

Test Mode	5G NR n71	Polarity:	Horizontal
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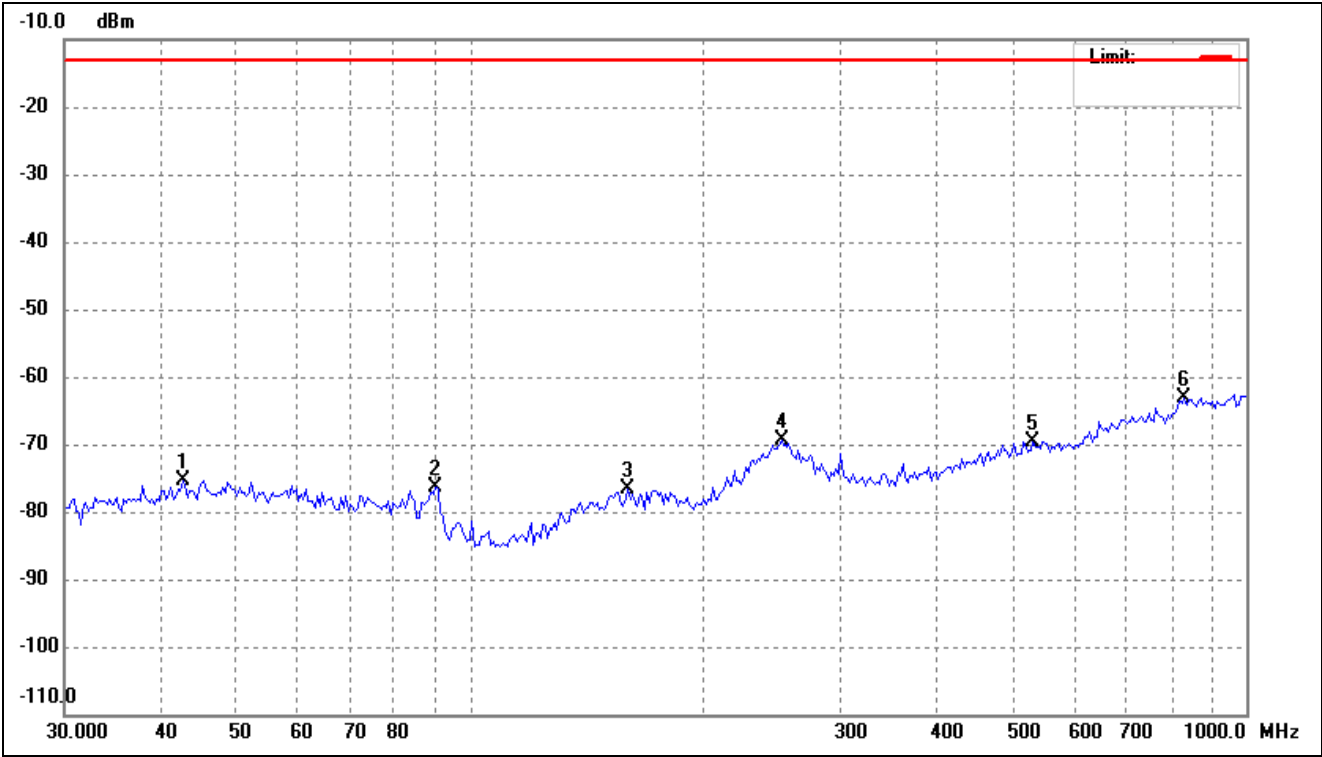
No.	Frequency (MHz)	Reading (dBm)	Correct dB	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	49.7571	-78.23	3.48	-74.75	-13.00	-61.75	ERP
2	89.7866	-73.79	-2.40	-76.19	-13.00	-63.19	ERP
3	181.3000	-76.48	0.91	-75.57	-13.00	-62.57	ERP
4	250.4859	-77.67	8.51	-69.16	-13.00	-56.16	ERP
5	546.4368	-76.92	7.71	-69.21	-13.00	-56.21	ERP
6	838.8870	-75.96	13.50	-62.46	-13.00	-49.46	ERP

Test Mode	5G NR n71	Polarity:	Vertical
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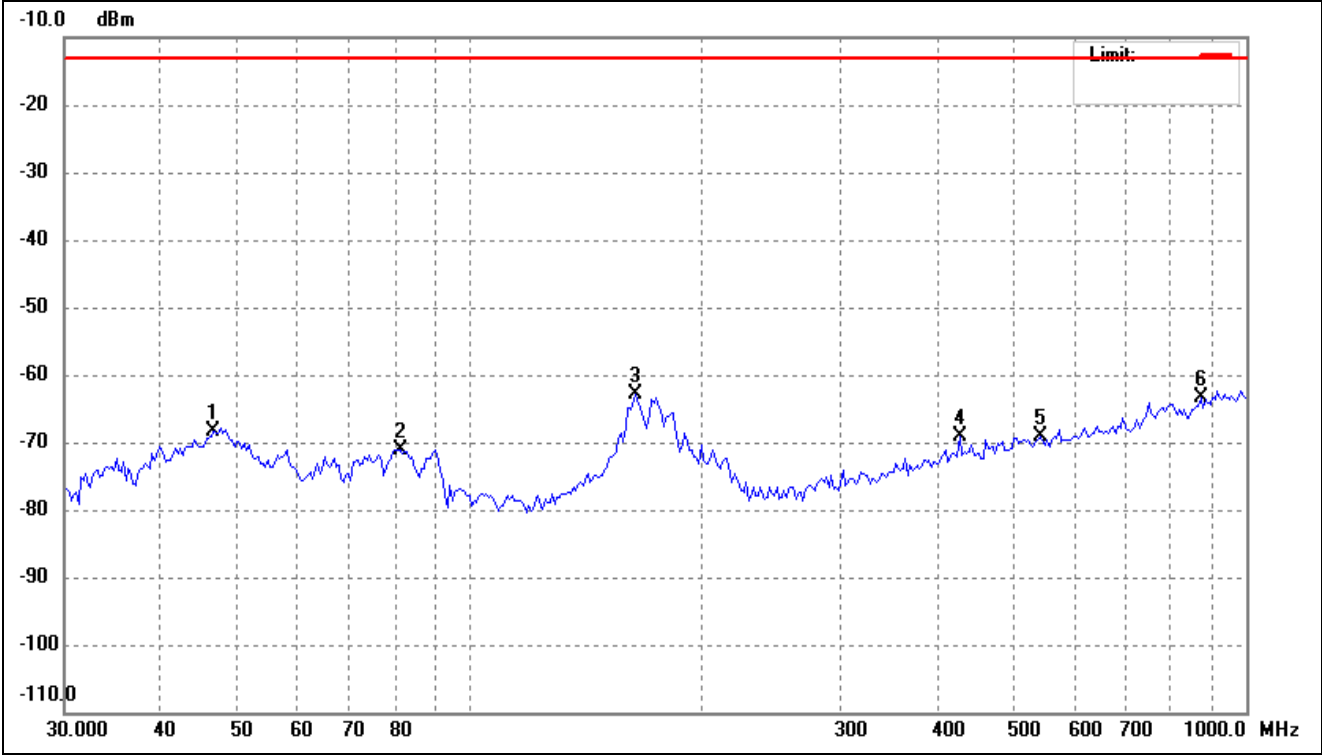
No.	Frequency (MHz)	Reading (dBm)	Correct dB	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	47.7028	-71.07	3.28	-67.79	-13.00	-54.79	ERP
2	79.6764	-71.03	0.49	-70.54	-13.00	-57.54	ERP
3	165.4716	-70.86	6.96	-63.90	-13.00	-50.90	ERP
4	284.2607	-77.12	2.54	-74.58	-13.00	-61.58	ERP
5	409.6506	-77.00	5.54	-71.46	-13.00	-58.46	ERP
6	793.0281	-75.84	12.48	-63.36	-13.00	-50.36	ERP

Test Mode	5G NR n77(3450-3550MHz)	Polarity:	Horizontal
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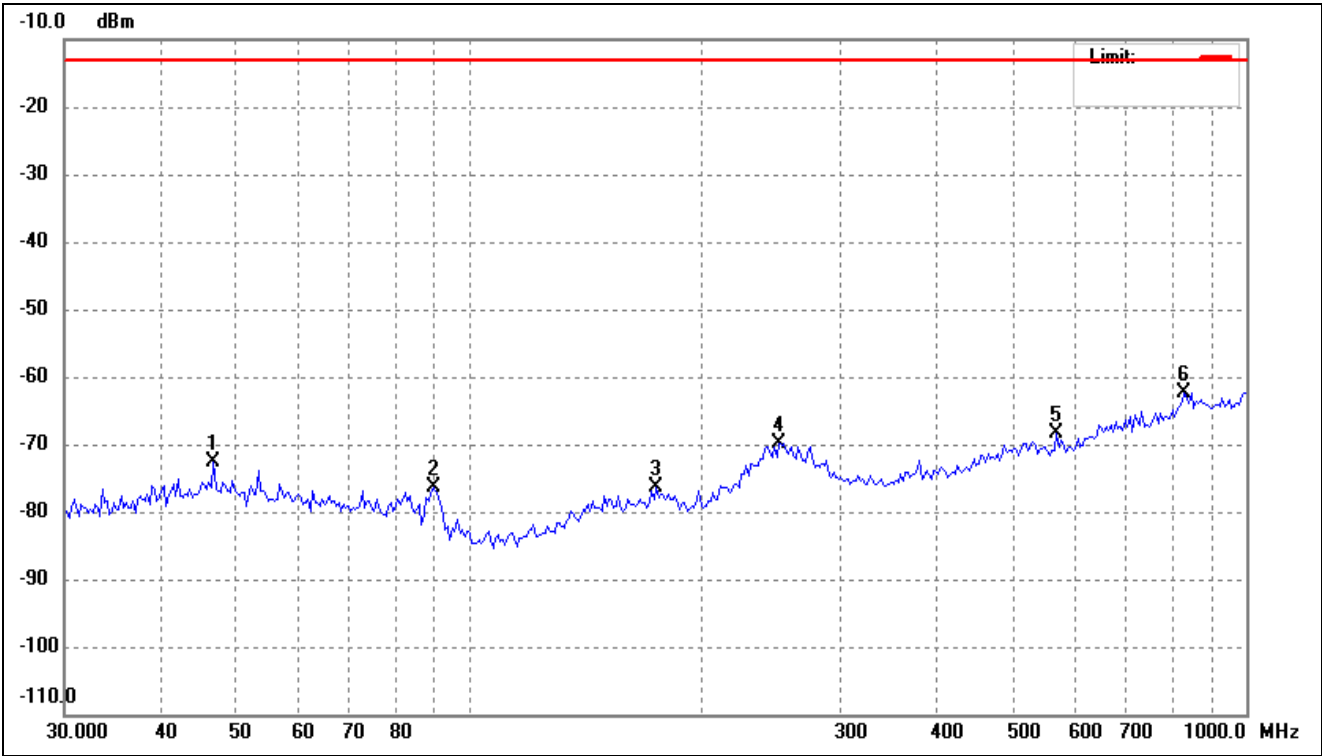
No.	Frequency (MHz)	Reading (dBm)	Correct dB	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	42.6299	-78.14	2.80	-75.34	-13.00	-62.34	ERP
2	90.4198	-73.82	-2.52	-76.34	-13.00	-63.34	ERP
3	159.7586	-77.69	0.98	-76.71	-13.00	-63.71	ERP
4	252.2523	-77.82	8.36	-69.46	-13.00	-56.46	ERP
5	531.2910	-77.17	7.57	-69.60	-13.00	-56.60	ERP
6	833.0127	-76.44	13.37	-63.07	-13.00	-50.07	ERP

Test Mode	5G NR n77(3450-3550MHz)	Polarity:	Vertical
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No.	Frequency (MHz)	Reading (dBm)	Correct dB	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	46.7077	-71.46	3.19	-68.27	-13.00	-55.27	ERP
2	81.3740	-71.05	0.04	-71.01	-13.00	-58.01	ERP
3	163.1623	-70.35	7.37	-62.98	-13.00	-49.98	ERP
4	427.2920	-75.10	5.86	-69.24	-13.00	-56.24	ERP
5	542.6104	-77.06	7.88	-69.18	-13.00	-56.18	ERP
6	875.0133	-75.35	12.05	-63.30	-13.00	-50.30	ERP

Test Mode	5G NR n77(3700-3980MHz)	Polarity:	Horizontal
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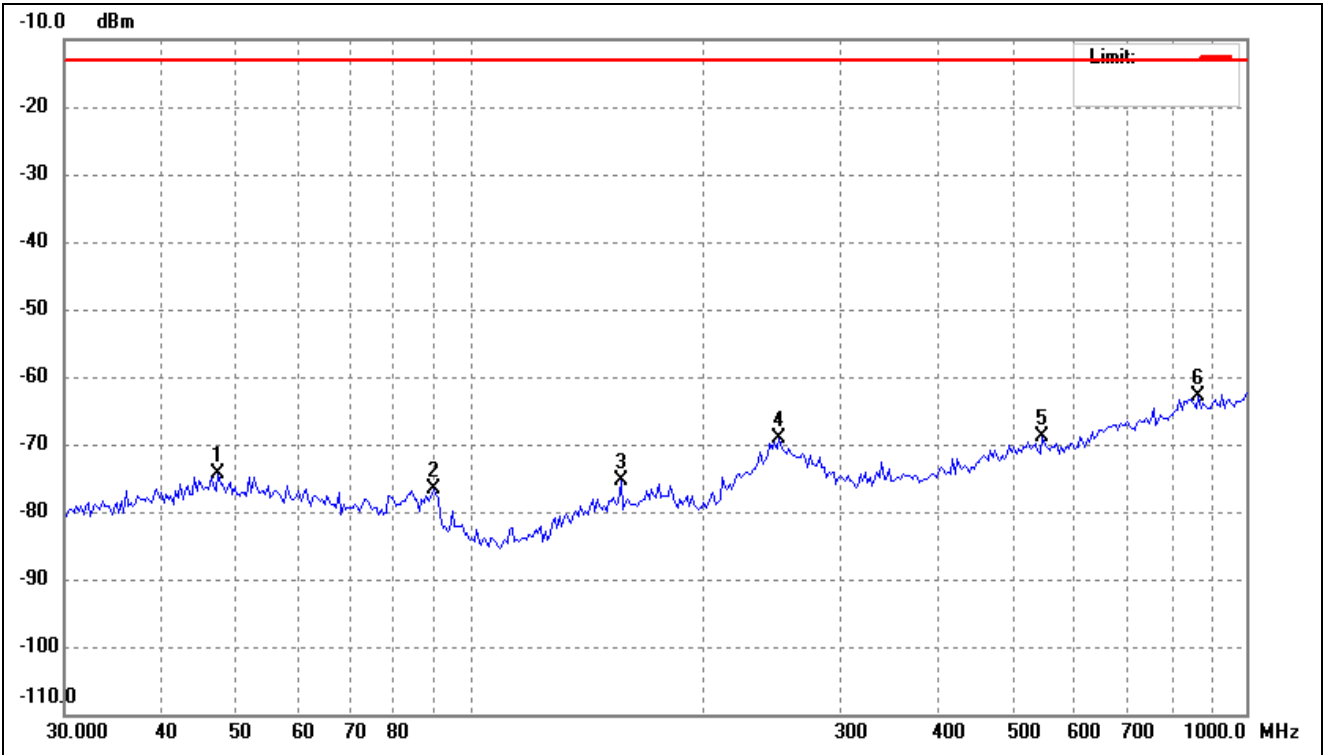
No.	Frequency (MHz)	Reading (dBm)	Correct dB	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	46.7077	-75.76	3.19	-72.57	-13.00	-59.57	ERP
2	89.7866	-74.02	-2.40	-76.42	-13.00	-63.42	ERP
3	173.8147	-77.35	0.98	-76.37	-13.00	-63.37	ERP
4	250.4859	-78.30	8.51	-69.79	-13.00	-56.79	ERP
5	569.9688	-76.35	7.92	-68.43	-13.00	-55.43	ERP
6	833.0127	-75.72	13.37	-62.35	-13.00	-49.35	ERP

Test Mode	5G NR n77(3700-3980MHz)	Polarity:	Vertical
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No.	Frequency (MHz)	Reading (dBm)	Correct dB	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	46.0558	-70.35	3.13	-67.22	-13.00	-54.22	ERP
2	80.8042	-71.00	0.19	-70.81	-13.00	-57.81	ERP
3	171.3890	-69.66	5.93	-63.73	-13.00	-50.73	ERP
4	324.8645	-78.57	3.82	-74.75	-13.00	-61.75	ERP
5	448.8361	-75.09	6.25	-68.84	-13.00	-55.84	ERP
6	906.3041	-75.04	12.29	-62.75	-13.00	-49.75	ERP

Test Mode	5G NR n78(3450-3500MHz)	Polarity:	Horizontal
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No.	Frequency (MHz)	Reading (dBm)	Correct dB	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	47.3688	-77.74	3.25	-74.49	-13.00	-61.49	ERP
2	89.7866	-74.34	-2.40	-76.74	-13.00	-63.74	ERP
3	156.4259	-76.37	0.94	-75.43	-13.00	-62.43	ERP
4	250.4859	-77.54	8.51	-69.03	-13.00	-56.03	ERP
5	546.4368	-76.57	7.71	-68.86	-13.00	-55.86	ERP
6	868.8860	-76.00	13.07	-62.93	-13.00	-49.93	ERP

Test Mode	5G NR n78(3450-3500MHz)	Polarity:	Vertical
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No.	Frequency (MHz)	Reading (dBm)	Correct dB	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	46.7077	-70.25	3.19	-67.06	-13.00	-54.06	ERP
2	81.3740	-70.17	0.04	-70.13	-13.00	-57.13	ERP
3	164.3129	-69.78	7.17	-62.61	-13.00	-49.61	ERP
4	211.6112	-70.88	1.15	-69.73	-13.00	-56.73	ERP
5	461.6313	-76.19	6.48	-69.71	-13.00	-56.71	ERP
6	798.6205	-75.85	12.62	-63.23	-13.00	-50.23	ERP

Note: Margin= (Reading+ Correct)- Limit

➤ Spurious Emissions Above 1GHz

For FDD_n2 Mode

Frequency	Reading	Correct	Result	Limit	Margin	Polar
(MHz)	(dBm)	dB	(dBm)	(dBm)	(dB)	H/V
Low Channel (1852.5MHz)						
3705.00	-53.52	10.54	-42.98	-13	-29.98	H
5557.50	-53.7	13.37	-40.33	-13	-27.33	H
3705.00	-53.97	10.54	-43.43	-13	-30.43	V
5557.50	-52.91	13.37	-39.54	-13	-26.54	V
Middle Channel (1880.0MHz)						
3760.00	-53.62	10.64	-42.98	-13	-29.98	H
5640.00	-52.85	13.54	-39.31	-13	-26.31	H
3760.00	-52.34	10.64	-41.7	-13	-28.70	V
5640.00	-52.50	13.54	-38.96	-13	-25.96	V
High Channel (1907.5MHz)						
3815.00	-53.29	10.74	-42.55	-13	-29.55	H
5722.50	-53.60	13.71	-39.89	-13	-26.89	H
3815.00	-53.99	10.74	-43.25	-13	-30.25	V
5722.50	-52.96	13.71	-39.25	-13	-26.25	V

For FDD_n5 Mode

Frequency	Reading	Correct	Result	Limit	Margin	Polar
(MHz)	(dBm)	dB	(dBm)	(dBm)	(dB)	H/V
Low Channel (826.5MHz)						
1653.00	-53.82	5.78	-48.04	-13	-35.04	H
2479.50	-52.42	8.91	-43.51	-13	-30.51	H
1653.00	-52.28	5.78	-46.5	-13	-33.50	V
2479.50	-52.37	8.91	-43.46	-13	-30.46	V
Middle Channel (836.5MHz)						
1673.00	-53.02	5.11	-47.91	-13	-34.91	H
2509.50	-52.18	8.54	-43.64	-13	-30.64	H
1673.00	-52.56	5.11	-47.45	-13	-34.45	V
2509.50	-53.95	8.54	-45.41	-13	-32.41	V
High Channel (846.5MHz)						
1693.00	-53.08	5.25	-47.83	-13	-34.83	H
2539.50	-52.73	8.57	-44.16	-13	-31.16	H
1693.00	-53.09	5.25	-47.84	-13	-34.84	V
2539.50	-52.37	8.57	-43.8	-13	-30.8	V

For FDD_n7 Mode

Frequency	Reading	Correct	Result	Limit	Margin	Polar
(MHz)	(dBm)	dB	(dBm)	(dBm)	(dB)	H/V
Low Channel (2502.5MHz)						
5005.0	-48.15	15.09	-33.06	-25	-8.06	H
7507.5	-48.96	11.66	-37.3	-25	-12.3	H
5005.0	-48.44	15.09	-33.35	-25	-8.35	V
7507.5	-49.53	15.09	-34.44	-25	-9.44	V
Middle Channel (2535MHz)						
5070.0	-48.58	11.78	-36.8	-25	-11.8	H
7605.0	-49.9	15.21	-34.69	-25	-9.69	H
5070.0	-48.63	11.78	-36.85	-25	-11.85	V
7605.0	-49.82	15.21	-34.61	-25	-9.61	V
High Channel (2567.5MHz)						
5135.0	-49.57	11.89	-37.68	-25	-12.68	H
7702.5	-49.48	15.32	-34.16	-25	-9.16	H
5135.0	-48.54	11.89	-36.65	-25	-11.65	V
7702.5	-49.32	15.32	-34.00	-25	-9.00	V

For FDD_n12 Mode

Frequency	Reading	Correct	Result	Limit	Margin	Polar
(MHz)	(dBm)	dB	(dBm)	(dBm)	(dB)	H/V
Low Channel (701.5MHz)						
1403.00	-49.44	4.28	-45.16	-13	-32.16	H
2404.50	-49.53	7.46	-42.07	-13	-29.07	H
1403.00	-48.22	4.28	-43.94	-13	-30.94	V
2404.50	-49.18	7.46	-41.72	-13	-28.72	V
Middle Channel (707.5MHz)						
1415.00	-49.01	4.11	-44.9	-13	-31.9	H
2122.50	-49.18	7.54	-41.64	-13	-28.64	H
1415.00	-49.04	4.11	-44.93	-13	-31.93	V
2122.50	-49.03	7.54	-41.49	-13	-28.49	V
High Channel (713.5MHz)						
1427.0	-48.51	4.4	-44.11	-13	-31.11	H
2140.5	-49.38	7.82	-41.56	-13	-28.56	H
1427.0	-48.18	4.4	-43.78	-13	-30.78	V
2140.5	-49.68	7.82	-41.86	-13	-28.86	V

For FDD_n13 Mode

Frequency	Reading	Correct	Result	Limit	Margin	Polar
(MHz)	(dBm)	dB	(dBm)	(dBm)	(dB)	H/V
Low Channel (779.5MHz)						
1559.00	-49.97	4.52	-45.45	-13	-32.45	H
2338.50	-49.64	7.96	-41.68	-13	-28.68	H
1559.00	-48.51	4.52	-43.99	-13	-30.99	V
2338.5	-49.43	7.96	-41.47	-13	-28.47	V
Middle Channel (782.0MHz)						
1564.00	-48.55	4.68	-43.87	-13	-30.87	H
2346.00	-49.46	8.02	-41.44	-13	-28.44	H
1564.00	-48.68	4.68	-44	-13	-31.00	V
2346.00	-48.02	8.05	-39.97	-13	-26.97	V
High Channel (784.5MHz)						
1569.00	-48.79	4.68	-44.11	-13	-31.11	H
2353.5	-48.29	4.85	-43.44	-13	-30.44	H
1569.00	-49.8	8.26	-41.54	-13	-28.54	V
2353.5	-49.71	4.85	-44.86	-13	-31.86	V

For FDD_n25 Mode

Frequency	Reading	Correct	Result	Limit	Margin	Polar
(MHz)	(dBm)	dB	(dBm)	(dBm)	(dB)	H/V
Low Channel (1852.5MHz)						
3705.00	-49.67	10.56	-39.11	-13	-26.11	H
5557.50	-48.38	13.38	-35.00	-13	-22.00	H
3705.00	-49.12	10.56	-38.56	-13	-25.56	V
5557.50	-48.33	13.38	-34.95	-13	-21.95	V
Middle Channel (1882.5MHz)						
3765.00	-49.22	10.64	-38.58	-13	-25.58	H
5647.50	-49.10	13.54	-35.56	-13	-22.56	H
3765.00	-49.98	10.64	-39.34	-13	-26.34	V
5647.50	-49.23	13.54	-35.69	-13	-22.69	V
High Channel (1912.5MHz)						
3825.00	-48.27	10.77	-37.5	-13	-24.50	H
5737.50	-49.59	13.75	-35.84	-13	-22.84	H
3825.00	-48.29	10.77	-37.52	-13	-24.52	V
5737.50	-48.12	13.75	-34.37	-13	-21.37	V

For FDD_n26 Mode

Frequency	Reading	Correct	Result	Limit	Margin	Polar
(MHz)	(dBm)	dB	(dBm)	(dBm)	(dB)	H/V
Low Channel (826.5MHz)						
1653.00	-49.95	5.08	-44.87	-13	-31.87	H
2479.50	-48.79	8.62	-40.17	-13	-27.17	H
1653.00	-49.36	5.08	-44.28	-13	-31.28	V
2479.50	-49.45	8.62	-40.83	-13	-27.83	V
Middle Channel (836.5MHz)						
1673.00	-49.82	5.11	-44.71	-13	-31.71	H
2509.50	-48.57	8.54	-40.03	-13	-27.03	H
1673.00	-48.75	5.11	-43.64	-13	-30.64	V
2509.50	-49.28	8.54	-40.74	-13	-27.74	V
High Channel (846.5MHz)						
1693.00	-49.86	5.22	-44.64	-13	-31.64	H
2539.50	-48.13	8.43	-39.70	-13	-26.70	H
1693.00	-49.08	5.22	-43.86	-13	-30.86	V
2539.50	-48.64	8.43	-40.21	-13	-27.21	V

For FDD_n30 Mode

Frequency	Reading	Correct	Result	Limit	Margin	Polar
(MHz)	(dBm)	dB	(dBm)	(dBm)	(dB)	H/V
Low Channel (2307.5MHz)						
4615.0	-52.77	9.18	-43.59	-40	-3.59	H
6922.5	-54.89	12.51	-42.38	-40	-2.38	H
4615.0	-52.37	9.18	-43.19	-40	-3.19	V
6922.5	-53.84	12.51	-41.33	-40	-1.33	V
Middle Channel (2310.0MHz)						
4620.0	-53.30	9.21	-44.09	-40	-4.09	H
6930.0	-54.89	12.79	-42.10	-40	-2.10	H
4620.0	-53.85	9.21	-44.64	-40	-4.64	V
6930.0	-54.00	12.79	-41.21	-40	-1.21	V
High Channel (2312.5MHz)						
4625.0	-52.23	9.32	-42.91	-40	-2.91	H
6937.5	-54.23	13.05	-41.18	-40	-1.18	H
4625.0	-52.62	9.32	-43.3	-40	-3.3	V
6937.5	-54.09	13.05	-41.04	-40	-1.04	V

For TDD_ n38 Mode

Frequency	Reading	Correct	Result	Limit	Margin	Polar
(MHz)	(dBm)	dB	(dBm)	(dBm)	(dB)	H/V
Low Channel (2580MHz)						
5160.00	-52.68	12.53	-40.15	-25	-15.15	H
7740.00	-53.08	15.76	-37.32	-25	-12.32	H
5160.00	-53.82	12.53	-41.29	-25	-16.29	V
7740.00	-54.97	15.76	-39.21	-25	-14.21	V
Middle Channel (2595.0MHz)						
5190.00	-53.4	12.32	-41.08	-25	-16.08	H
7785.00	-54.96	15.98	-38.98	-25	-13.98	H
5190.00	-52.38	12.62	-39.76	-25	-14.76	V
7785.00	-53.57	15.98	-37.59	-25	-12.59	V
High Channel (2610.0MHz)						
5220.00	-53.75	13.24	-40.51	-25	-15.51	H
7830.00	-55.35	16.87	-38.48	-25	-13.48	H
5220.00	-53.96	13.24	-40.72	-25	-15.72	V
7830.00	-54.98	16.87	-38.11	-25	-13.11	V

For TDD_ n41 Mode

Frequency	Reading	Correct	Result	Limit	Margin	Polar
(MHz)	(dBm)	dB	(dBm)	(dBm)	(dB)	H/V
Low Channel (2506.0MHz)						
5012.0	-53.63	10.54	-43.09	-25	-18.09	H
7518.0	-53.38	14.21	-39.17	-25	-14.17	H
5012.0	-53.39	10.54	-42.85	-25	-17.85	V
7518.0	-54.83	14.21	-40.62	-25	-15.62	V
Middle Channel (2593.0MHz)						
5186.0	-52.58	11.65	-40.93	-25	-15.93	H
7779.0	-53.03	16.78	-36.25	-25	-11.25	H
5186.0	-53.47	11.65	-41.82	-25	-16.82	V
7779.0	-54.06	16.79	-37.27	-25	-12.27	V
High Channel (2680.0MHz)						
5360.0	-52.96	13.72	-39.24	-25	-14.24	H
8040.0	-54.89	17.35	-37.54	-25	-12.54	H
5360.0	-53.13	13.72	-39.41	-25	-14.41	V
8040.0	-55.63	18.35	-37.28	-25	-12.28	V

For FDD_n66 Mode

Frequency	Reading	Correct	Result	Limit	Margin	Polar
(MHz)	(dBm)	dB	(dBm)	(dBm)	(dB)	H/V
Low Channel (1712.50MHz)						
3425.00	-52.77	8.65	-44.12	-13	-31.12	H
5137.50	-54.44	12.03	-42.41	-13	-29.41	H
3425.00	-52.45	8.65	-43.8	-13	-30.8	V
5137.50	-53.27	12.03	-41.24	-13	-28.24	V
Middle Channel (1745.00MHz)						
3490	-53.76	9.53	-44.23	-13	-31.23	H
5235	-54.20	11.98	-42.22	-13	-29.22	H
3490	-52.74	9.53	-43.21	-13	-30.21	V
5235	-53.80	11.98	-41.82	-13	-28.82	V
High Channel (1777.50MHz)						
3555.00	-52.72	9.15	-43.57	-13	-30.57	H
5332.50	-55.76	11.65	-44.11	-13	-31.11	H
3555.00	-52.70	9.15	-43.55	-13	-30.55	V
5332.50	-54.54	11.65	-42.89	-13	-29.89	V

For FDD_n71 Mode

Frequency	Reading	Correct	Result	Limit	Margin	Polar
(MHz)	(dBm)	dB	(dBm)	(dBm)	(dB)	H/V
Low Channel (665.5MHz)						
1331.00	-52.84	4.01	-48.83	-13	-35.83	H
1996.50	-54.06	7.42	-46.64	-13	-33.64	H
1331.00	-52.11	4.01	-48.1	-13	-35.1	V
1996.50	-53.92	7.42	-46.5	-13	-33.5	V
Middle Channel (680.5MHz)						
1361.00	-53.51	4.48	-49.03	-13	-36.03	H
2041.50	-54.81	7.93	-46.88	-13	-33.88	H
1361.00	-52.06	4.48	-47.58	-13	-34.58	V
2041.50	-53.05	7.93	-45.12	-13	-32.12	V
High Channel (695.5MHz)						
1391.00	-53.19	9.15	-44.04	-13	-31.04	H
2086.50	-55.18	5.05	-50.13	-13	-37.13	H
1391.00	-53.66	8.69	-44.97	-13	-31.97	V
2086.50	-54.93	5.05	-49.88	-13	-36.88	V

For TDD_n77(3450-3550MHz) Mode

Frequency	Reading	Correct	Result	Limit	Margin	Polar
(MHz)	(dBm)	dB	(dBm)	(dBm)	(dB)	H/V
Low Channel (3460.0MHz)						
6910.00	-52.65	15.42	-37.23	-13	-24.23	H
10365.00	-54.44	19.78	-34.66	-13	-21.66	H
6910.00	-52.1	15.42	-36.68	-13	-23.68	V
10365.00	-53.43	19.78	-33.65	-13	-20.65	V
Middle Channel (3500.0MHz)						
7000.00	-52.18	16.53	-35.65	-13	-22.65	H
10500.00	-53.15	20.15	-33.00	-13	-20.00	H
7000.00	-53.02	16.53	-36.49	-13	-23.49	V
10500.00	-54.44	20.15	-34.29	-13	-21.29	V
High Channel (3540MHz)						
7080.00	-52.50	17.15	-35.35	-13	-22.35	H
10620.00	-55.53	21.62	-33.91	-13	-20.91	H
7080.00	-53.77	17.15	-36.62	-13	-23.62	V
10620.00	-55.26	21.62	-33.64	-13	-20.64	V

For TDD_n77(3700-3980MHz) Mode

Frequency	Reading	Correct	Result	Limit	Margin	Polar
(MHz)	(dBm)	dB	(dBm)	(dBm)	(dB)	H/V
Low Channel (3710.01MHz)						
7420.00	-53.09	21.59	-31.5	-13	-18.5	H
11130.00	-53.33	24.93	-28.4	-13	-15.4	H
7420.00	-52.6	21.59	-31.01	-13	-18.01	V
11130.00	-54.44	24.93	-29.51	-13	-16.51	V
Middle Channel (3840MHz)						
7680.00	-53.92	22.64	-31.28	-13	-18.28	H
11520.00	-54.44	25.98	-28.46	-13	-15.46	H
7680.00	-52.69	22.64	-30.05	-13	-17.05	V
11520.00	-53.66	25.98	-27.68	-13	-14.68	V
High Channel (3970MHz)						
7940.00	-53.23	23.05	-30.18	-13	-17.18	H
11910.00	-54.48	26.84	-27.64	-13	-14.64	H
7940.00	-52.01	23.05	-28.96	-13	-15.96	V
11910.00	-54.46	26.84	-27.62	-13	-14.62	V

For TDD_n78(3450-3550MHz) Mode

Frequency	Reading	Correct	Result	Limit	Margin	Polar
(MHz)	(dBm)	dB	(dBm)	(dBm)	(dB)	H/V
Low Channel (3460MHz)						
7420.00	-53.74	19.24	-34.50	-13	-21.50	H
11130.00	-53.59	21.47	-32.12	-13	-19.12	H
7420.00	-53.51	19.24	-34.27	-13	-21.27	V
11130.00	-53.38	21.47	-31.91	-13	-18.91	V
Middle Channel (3500MHz)						
7680.00	-53.31	19.51	-33.80	-13	-20.80	H
11520.00	-53.75	21.78	-31.97	-13	-18.97	H
7680.00	-53.47	19.51	-33.96	-13	-20.96	V
11520.00	-53.98	21.78	-32.2	-13	-19.20	V
High Channel (3540MHz)						
7940.00	-53.86	19.75	-34.11	-13	-21.11	H
11910.00	-55.49	22.24	-33.25	-13	-20.25	H
7940.00	-52.46	19.75	-32.71	-13	-19.71	V
11910.00	-55.20	22.24	-32.96	-13	-19.96	V

Note: Result=Reading+ Correct, Margin= Result- Limit

Note: Testing is carried out with frequency rang 9kHz to the tenth harmonics, other than listed in the table above are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

APPENDIX PHOTOGRAPHS

Please refer to “ANNEX”

***** END OF REPORT *****