

RF Test Report

Applicant : D-Link Corporation

Product Name : 5G Sub-6 GHz LGA Module

Trade Name : D-Link

Model Number : RG520N-NA

Applicable Standard : FCC 47 CFR PART 22H
FCC 47 CFR PART 24E
FCC 47 CFR PART 27
FCC 47 CFR PART 90
ANSI C63.26 2015

Received Date : May 23, 2024

Test Period : Jun. 11, 2024 ~ Jun. 17, 2024

Issued Date : Jul. 15, 2024

Issued by

Eurofins E&E Wireless Taiwan Co., Ltd.
No. 140-1, Changan Street, Bade District,
Taoyuan City 334025, Taiwan (R.O.C.)
Tel : +886-3-2710188 / Fax : +886-3-2710190



Taiwan Accreditation Foundation accreditation number: 1330
Frequency Range: 9 kHz to 40 GHz
Bade test site :
Test Firm Registration Number: 226252
Test Firm Designation Number: TW0010
Wugu test site :
Test Firm Registration Number: 191812
Test Firm Designation Number: TW0034

Note:

1. The test results are valid only for samples provided by customers and under the test conditions described in this report.
2. This report shall not be reproduced except in full, without the written approval of Eurofins E&E Wireless Taiwan Co., Ltd.
3. The relevant information is provided by customers in this test report. According to the correctness, appropriateness or completeness of the information provided by the customer, if there is any doubt or error in the information which affects the validity of the test results, the laboratory does not take the responsibility.

Revision History

Rev.	Issued Date	Description	Revised by
00	Jul. 15, 2024	Initial Issue	Snow Wang

Verification of Compliance

Applicant : D-Link Corporation

Product Name : 5G Sub-6 GHz LGA Module

Trade Name : D-Link

Model Number : RG520N-NA

FCC ID : KA2RG520NA1

Applicable Standard : FCC 47 CFR PART 22H
FCC 47 CFR PART 24E
FCC 47 CFR PART 27
FCC 47 CFR PART 90
ANSI C63.26 2015

Test Result : Complied

Performing Lab. : Eurofins E&E Wireless Taiwan Co., Ltd.
No. 140-1, Changan Street, Bade District,
Taoyuan City 334025, Taiwan (R.O.C.)
Tel : +886-3-2710188 / Fax : +886-3-2710190
Taiwan Accreditation Foundation accreditation number: 1330



Eurofins E&E Wireless Taiwan Co., Ltd. tested the above equipment in accordance with the requirements set forth in the above standards. All indications of Pass/Fail in this report are opinions expressed by Eurofins E&E Wireless Taiwan Co., Ltd. based on interpretations and/or observations of test results. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

Approved By : _____

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Appendix A. Test Setup Photographs

1 General Information

1.1. Summary of Test Result

FCC Rule	Description	Result
§2.1046	Conducted Output Average Power	N/A (Note 1)
§22.913 §24.232 §27.50 §90.542 (Part 90R) §90.635 (Part 90S)	Equivalent Isotropic Radiated Power / Equivalent Radiated Power	N/A (Note 1)
§2.1055 §22.355 §24.235 §27.54	Frequency Stability	N/A (Note 1)
§2.1049	Emission Bandwidth & Occupied Bandwidth	N/A (Note 1)
§24.232 §27.50	Peak to average power ratio	N/A (Note 1)
§2.1051 §22.917 §24.238 §27.53 §90.543 (Part 90R) §90.691 (Part 90S)	Band Edge	N/A (Note 1)
§2.1051 §22.917 §24.238 §27.53 §90.543 (Part 90R) §90.691 (Part 90S)	Conducted Spurious Emissions	N/A (Note 1)
§2.1053 §22.917 §24.238 §27.53 §90.543 (Part 90R) §90.691 (Part 90S)	Radiated Spurious Emissions	Pass (Note 2)

Note 1: No need for verification.

Note 2: Only verify the Simultaneous Transmission.

Decision Rule

- ☒ Uncertainty is not included.
- ☐ Uncertainty is included.

1.2. Testing Location

Lab Name:

Eurofins E&E Wireless Taiwan Co., Ltd.

Site Address:

☐ No. 140-1, Changan Street, Bade District, Taoyuan City 334025, Taiwan (R.O.C.)

Site Address:

☒ No. 2, Wuquan 5th Rd. Wugu Dist., New Taipei City, Taiwan (R.O.C.)

1.3. Measurement Uncertainty

Parameter	Uncertainty			
	96601-BD	96603-BD	96602-WG	96603-WG
Radiated Emission	6.3 dB	6.3 dB	6.3 dB	6.3 dB

1.4. Test Site Environment

Items	Required (IEC 68-1)	Interval(*)
Temperature (°C)	15-35	20-30
Humidity (%RH)	25-75	45-75

(*)The measurement ambient temperature is within this range.

2 EUT Description

The product specifications of the EUT presented in the report are declared by the manufacturer who shall take full responsibility for the authenticity.

Applicant	D-Link Corporation 14420 Myford Road Suite 100 Irvine California United States 92606
Product Name	5G Sub-6 GHz LGA Module
Trade Name	D-Link
Model Number	RG520N-NA
FCC ID	KA2RG520NA1
Host Information	Product Name: 5G NR AX3000 Wi-Fi 6 Router Trade Name: D-Link Model Name: G530
IMEI No.	863109050333500
Operate Temp. Range	0 ~ 40 °C
EUT Power Rating	12 Vdc

5G NR				
Operation Band (NR):	☒ n2	☒ n5	☒ n7	☒ n12
	☒ n13	☒ n14	☒ n25	☒ n26
	☒ n38	☐ n40	☒ n41	☐ n48
	☒ n66	☒ n70	☒ n71	☒ n77
	☒ n78	☐ n79		
Support type:	☒ Standalone	☒ EN-DC		
	☒ CA-UL	☒ CA-DL	☒ MIMO-UL	
Modulation type:	☒ DFT-s-OFDM	PI/2-BPSK, QPSK, 16QAM, 64QAM, 256QAM		
	☒ CP-OFDM	QPSK, 16QAM, 64QAM, 256QAM		
Power Class:	☒ Class 3	☒ Class 2 (n38 , n41, n77, n78)	☒ Class 1.5 (n38 , n41, n77, n78)	

EUT Modify Description :

Modify Description:
(1) This is to request a Class 2 Permissive Change for FCC ID: KA2RG520NA1, originally granted on 2024/7/4.
Modification:
Change #1: Additional chassis added, D-Link model name: G530.
Change #2: Add new WWAN antennas that meet FCC WWAN certification standard.

After replacing the antenna, the Gain is smaller than the original antenna.
After Our evaluation, the retest of Radiated Emissions Worst Case by each band required.
The other test data refer to the original report

2.1. Product Specification of Equipment Under Test

Band	Antenna Type	Antenna name	Gain (dBi)	Note
n2	PCB antenna	ANT-0	2.1	---
n5	PCB antenna	ANT-0	1.7	---
n7	PCB antenna	ANT-0	0.1	---
n12	PCB antenna	ANT-0	1.5	---
n13	PCB antenna	ANT-0	1.9	---
n14	PCB antenna	ANT-0	1.9	---
n25	PCB antenna	ANT-0	2.1	---
n26	PCB antenna	ANT-0	1.7	---
n38	PCB antenna	ANT-0	0.1	---
n41	PCB antenna	ANT-0	0.1	---
n66	PCB antenna	ANT-0	2.0	---
n77	PCB antenna	ANT-0	0.9	---
n78	PCB antenna	ANT-0	0.9	---

Band	Antenna Type	Antenna name	Gain (dBi)	Note
n2	PCB antenna	ANT-2	2.2	---
n5	PCB antenna	ANT-2	2.3	---
n7	PCB antenna	ANT-2	0.1	---
n12	PCB antenna	ANT-2	2.6	---
n13	PCB antenna	ANT-2	2.7	---
n14	PCB antenna	ANT-2	2.7	---
n25	PCB antenna	ANT-2	2.2	---
n26	PCB antenna	ANT-2	2.3	---
n38	PCB antenna	ANT-2	0.2	---
n41	PCB antenna	ANT-2	0.2	---
n66	PCB antenna	ANT-2	2.8	---
n71	PCB antenna	ANT-2	2.2	---
n77	PCB antenna	ANT-2	0.0	---
n78	PCB antenna	ANT-2	0.0	---

Band	Antenna Type	Antenna name	Gain (dBi)	Note
n2	PCB antenna	ANT-4	2.6	---
n7	PCB antenna	ANT-4	0.1	---
n25	PCB antenna	ANT-4	2.6	---
n38	PCB antenna	ANT-4	0.2	---
n41	PCB antenna	ANT-4	0.2	---
n66	PCB antenna	ANT-4	3.7	---
n77	PCB antenna	ANT-4	0.4	---
n78	PCB antenna	ANT-4	0.4	---

Band	Antenna Type	Antenna name	Gain (dBi)	Note
n2	PCB antenna	ANT-5	2.1	---
n7	PCB antenna	ANT-5	0.1	---
n25	PCB antenna	ANT-5	2.1	---
n38	PCB antenna	ANT-5	3.9	---
n41	PCB antenna	ANT-5	0.1	---
n66	PCB antenna	ANT-5	2.0	---
n77	PCB antenna	ANT-5	0.9	---
n78	PCB antenna	ANT-5	0.9	---

Channel Bandwidth:

5G FR1 Bands																	
Bands	Support Power Class	Support Mode	Support / Non supportive	SCS (kHz)	Channel bandwidth (MHz)												
					5	10	15	20	25	30	40	50	60	70	80	90	100
n2	3	SA&NSA	Support	15	V	V	V	V	X	X	X	X	X	X	X	X	X
			N/A	30	X	X	X	X	X	X	X	X	X	X	X	X	X
			N/A	60	X	X	X	X	X	X	X	X	X	X	X	X	X
n5	3	SA&NSA	Support	15	V	V	V	V	X	X	X	X	X	X	X	X	X
			N/A	30	X	X	X	X	X	X	X	X	X	X	X	X	X
			N/A	60	X	X	X	X	X	X	X	X	X	X	X	X	X
n7	3	SA&NSA	Support	15	V	V	V	V	V	V	V	X	X	X	X	X	X
			N/A	30	X	X	X	X	X	X	X	X	X	X	X	X	X
			N/A	60	X	X	X	X	X	X	X	X	X	X	X	X	X
n12	3	SA&NSA	Support	15	V	V	V	X	X	X	X	X	X	X	X	X	X
			N/A	30	X	X	X	X	X	X	X	X	X	X	X	X	X
			N/A	60	X	X	X	X	X	X	X	X	X	X	X	X	X
n13	3	SA	Support	15	V	V	X	X	X	X	X	X	X	X	X	X	X
			N/A	30	X	X	X	X	X	X	X	X	X	X	X	X	X
			N/A	60	X	X	X	X	X	X	X	X	X	X	X	X	X
n14	3	SA&NSA	Support	15	V	V	X	X	X	X	X	X	X	X	X	X	X
			N/A	30	X	X	X	X	X	X	X	X	X	X	X	X	X
			N/A	60	X	X	X	X	X	X	X	X	X	X	X	X	X
n25	3	SA&NSA	Support	15	V	V	V	V	V	V	V	X	X	X	X	X	X
			N/A	30	X	X	X	X	X	X	X	X	X	X	X	X	X
			N/A	60	X	X	X	X	X	X	X	X	X	X	X	X	X
n26	3	SA	Support	15	V	V	V	V	X	X	X	X	X	X	X	X	X
			N/A	30	X	X	X	X	X	X	X	X	X	X	X	X	X
			N/A	60	X	X	X	X	X	X	X	X	X	X	X	X	X
N30	3	SA&NSA	Support	15	V	V	X	X	X	X	X	X	X	X	X	X	X
			N/A	30	X	X	X	X	X	X	X	X	X	X	X	X	X
			N/A	60	X	X	X	X	X	X	X	X	X	X	X	X	X
n38	3	SA&NSA	N/A	15	X	X	X	X	X	X	X	X	X	X	X	X	X
			Support	30	X	V	V	V	X	V	V	X	X	X	X	X	X
			N/A	60	X	X	X	X	X	X	X	X	X	X	X	X	X
n41	3	SA&NSA	N/A	15	X	X	X	X	X	X	X	X	X	X	X	X	X
			Support	30	X	V	V	V	X	V	V	V	V	V	V	V	V

Channel Bandwidth:

5G FR1 Bands																	
FCC																	
Bands	Support Power Class	Support Mode	Support / Non supportive	SCS (kHz)	Channel bandwidth (MHz)												
					5	10	15	20	25	30	40	50	60	70	80	90	100
n66	3	SA&NSA	Support	15	V	V	V	V	X	X	X	X	X	X	X	X	X
			N/A	30	X	X	X	X	X	X	X	X	X	X	X	X	X
			N/A	60	X	X	X	X	X	X	X	X	X	X	X	X	X
N70	3	SA&NSA	Support	15	V	V	V	X	X	X	X	X	X	X	X	X	X
			N/A	30	X	X	X	X	X	X	X	X	X	X	X	X	X
			N/A	60	X	X	X	X	X	X	X	X	X	X	X	X	X
n71	3	SA&NSA	N/A	15	X	X	X	X	X	X	X	X	X	X	X	X	X
			Support	30	V	V	V	V	X	X	X	X	X	X	X	X	X
			N/A	60	X	X	X	X	X	X	X	X	X	X	X	X	X
n77 (3900 ~ 3980)	3	SA&NSA	N/A	15	X	X	X	X	X	X	X	X	X	X	X	X	X
			Support	30	X	V	V	V	X	V	V	V	V	V	V	X	X
			N/A	60	X	X	X	X	X	X	X	X	X	X	X	X	X
n77/ n78	3	SA&NSA	N/A	15	X	X	X	X	X	X	X	X	X	X	X	X	X
			Support	30	X	V	V	V	X	V	V	V	V	V	V	V	V
			N/A	60	X	X	X	X	X	X	X	X	X	X	X	X	X

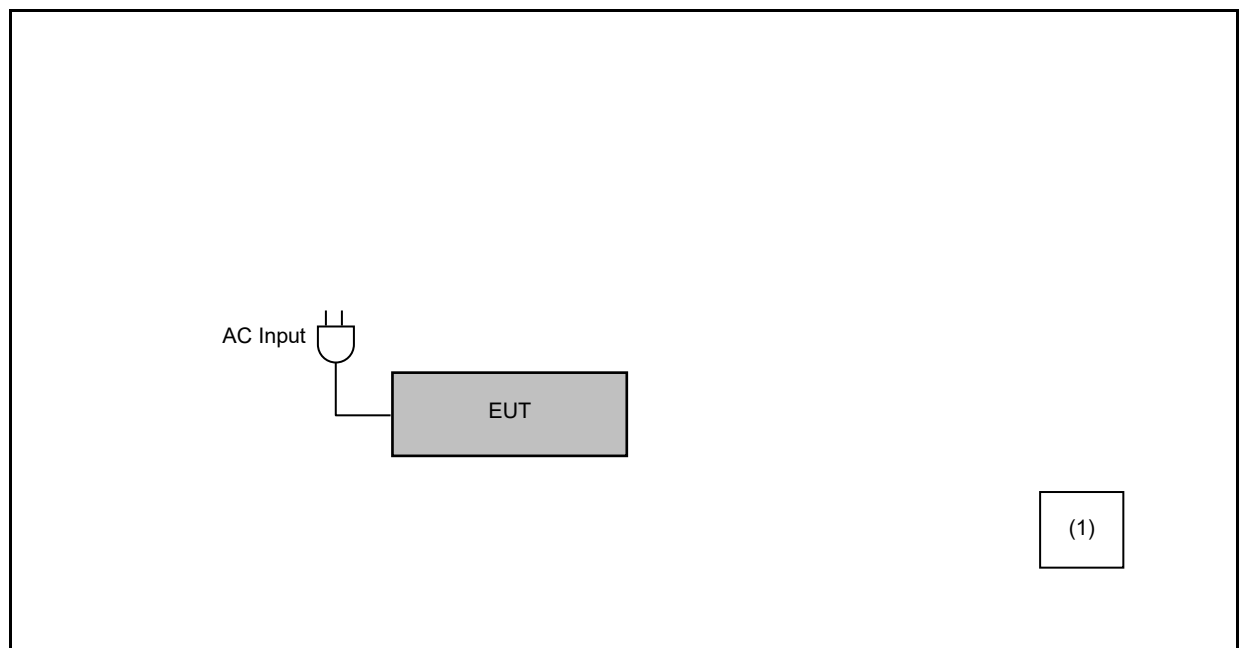
2.2. Mode of Operation

Pre-Test Mode	Final-Test Mode
5G NR	V

2.3. EUT Test Step

1	Setup the EUT shown on "Configuration of Test System Details".
2	Turn on the power of all equipment.
3	EUT run test program test.

2.4. Configuration of Test System Details



	Product	Manufacturer	Model Number	Serial Number	Power Cord
(3)	Wireless Test Platform	Keysight	UXM 5G	MY59020225	---

2.5. Test Instruments

For Radiated Emissions

Test Period: Jun. 11 ~ Jun. 17, 2024

Testing Engineer: Jason Yeh

Radiation test sites		Semi Anechoic Room 96603-WG				
Use	Equipment	Manufacturer	Model Number	Serial Number	Cal. Date	Cal. Period
☒	LOOP Antenna (9 kHz~30 MHz)	Schwarzbeck Mess-Elektronik	FMZB 1513-60	00031	Feb. 23, 2024	1 year
☒	Trilog Broadband Antenna (30 kHz~1 GHz)	Schwarzbeck Mess-Elektronik	VULB9168	1276	Feb. 02, 2024	1 year
☒	Broadband Horn Antenna (1 GHz~18 GHz)	RF SPIN	DRH18-E	210307A18ES	Dec. 15, 2023	1 year
☒	Broadband Horn Antenna (15 GHz~40 GHz)	Schwarzbeck Mess-Elektronik	BBHA9170	1133	Jan. 18, 2024	1 year
☒	Spectrum Analyzer (2 Hz~50 GHz)	KEYSIGHT	N9030B	MY57153537	Apr. 21, 2024	1 year
☒	Pre-Amplifier	EMCI	EMC001330	980859	Nov. 29, 2023	1 year
☒	Pre-Amplifier	EMCI	EMC118A45SE	980818	Dec. 15, 2023	1 year
☒	Pre-Amplifier	EMCI	EMC184045SE	980861	Dec. 21, 2023	1 year
☒	Coaxial Cable (10 kHz~3000 MHz)	EMCI	EMCCFD400-NM- NM-2000	211009	Dec. 28, 2023	1 year
☒	Coaxial Cable (10 kHz~3000 MHz)	EMCI	EMCCFD400-NM- NM-2000	211010	Dec. 28, 2023	1 year
☒	Coaxial Cable (10 kHz~3000 MHz)	EMCI	EMCCFD400-NM- NM-6000	211018	Dec. 28, 2023	1 year
☒	Coaxial Cable (1 GHz~18 GHz)	EMCI	EMC104-SM-SM- 1000	211029	Dec. 28, 2023	1 year
☒	Coaxial Cable (1 GHz~18 GHz)	EMCI	EMC104-SM-SM- 2000	211033	Dec. 28, 2023	1 year
☒	Coaxial Cable (1 GHz~18 GHz)	EMCI	EMC104-SM-SM- 8000	211038	Dec. 28, 2023	1 year

Note: N.C.R. = No Calibration Request

For Radiated Emissions
 Test Period: Jun. 11 ~ Jun. 17, 2024
 Testing Engineer: Jason Yeh

Radiation test sites		Semi Anechoic Room 96603-WG				
Use	Equipment	Manufacturer	Model Number	Serial Number	Cal. Date	Cal. Period
☒	Coaxial Cable (18 GHz~40 GHz)	EMCI	EMC101G-KM-KM-600	211211	Dec. 28, 2023	1 year
☒	Coaxial Cable (18 GHz~40 GHz)	EMCI	EMC101G-KM-KM-2000	211210	Dec. 28, 2023	1 year
☒	Coaxial Cable (18 GHz~40 GHz)	EMCI	EMC101G-KM-KM-6000	211209	Dec. 28, 2023	1 year
☒	Highpass Filter	Warison	STI15-9796	001	Nov. 13, 2023	1 year
☒	Highpass Filter	Warison	WFIL-H3000-20000F	WR4BBFWC2B1	Nov. 13, 2023	1 year
☒	Highpass Filter	Warison	WFIL-H6000-26500F	WR4BBFWC4B1	Nov. 13, 2023	1 year
☒	Wireless Test Platform	Keysight	UXM 5G	MY59020225	Mar. 06, 2024	1 year
☒	Software	R_RAM	V1.3	N/A	N.C.R.	---

Note: N.C.R. = No Calibration Request

3 Measurement Procedure

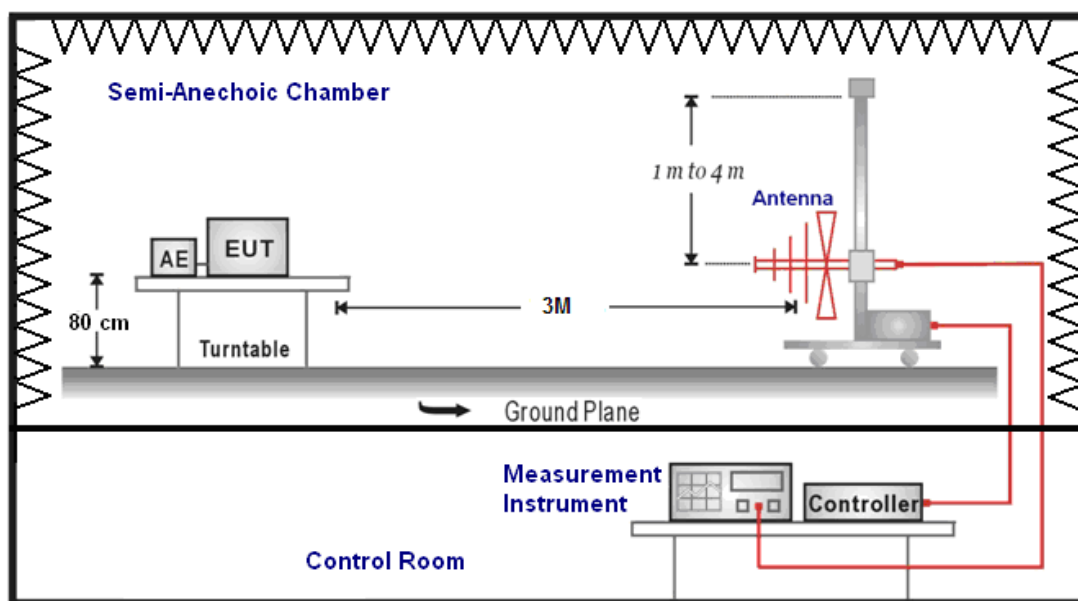
3.1. Radiated Emission Test

■ Limit

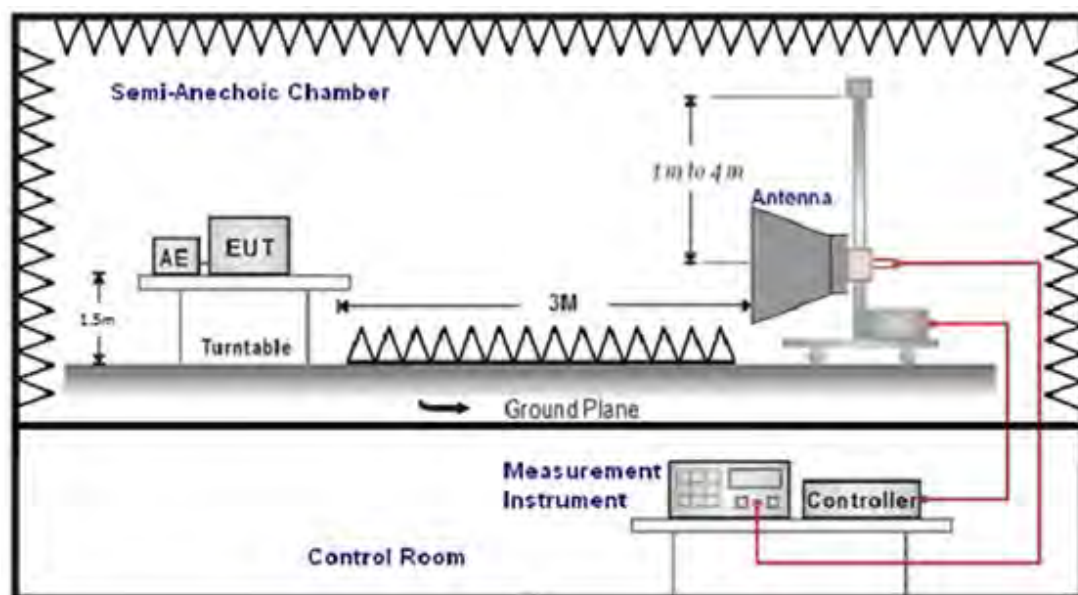
The power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) by at least $43 + 10 \log_{10}(P)$ dB. The limit of emission equal to -13 dBm.

■ Setup

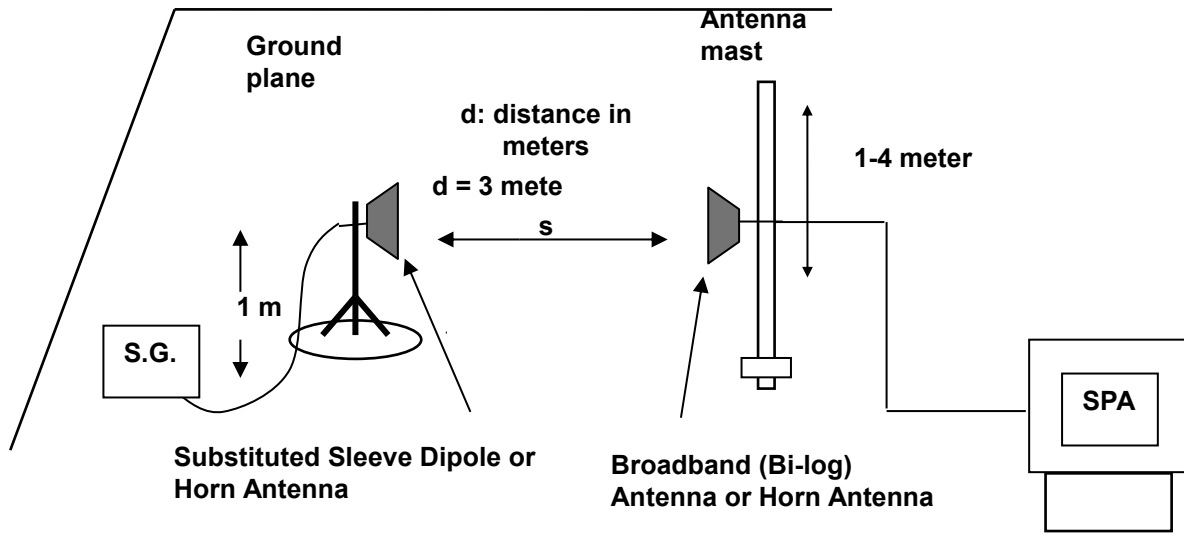
Below 1 GHz



Above 1 GHz



For Substituted Method Test Set-UP



■ Test Procedure

- The EUT was set up for the maximum power with WWAN link data modulation. The power was measured with Spectrum Analyzer. All measurements were done at 3 channels (low, middle and high operational frequency range).
- Radiation Emission measurement. In the semi-anechoic chamber, EUT placed on the 0.8 m (1.5 m for above 1 GHz) height of Turn Table, rotated the table around 360 degrees to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1 m to 4 m to find the maximum polar radiated power. The "Read Value" is the spectrum reading the maximum power value.
- The substitution antenna (Note:1 & 2) is substituted for EUT at the same position and signals generator export the CW signal to the substitution antenna via a TX cable. Rotated the Turn Table and moved receiving antenna to find the maximum radiation power. Adjust output power level of S.G to get a Value of spectrum reading equal to "Read Value" of step a. Record the power level of S.G.
- $E.I.R.P. = \text{Output power level of S.G} - \text{TX cable loss} + \text{Antenna gain of substitution horn}$
- $E.R.P. = E.I.R.P. - 2.15 \text{ dB}$
- Measurement range 9 kHz - 10 th Harmonic

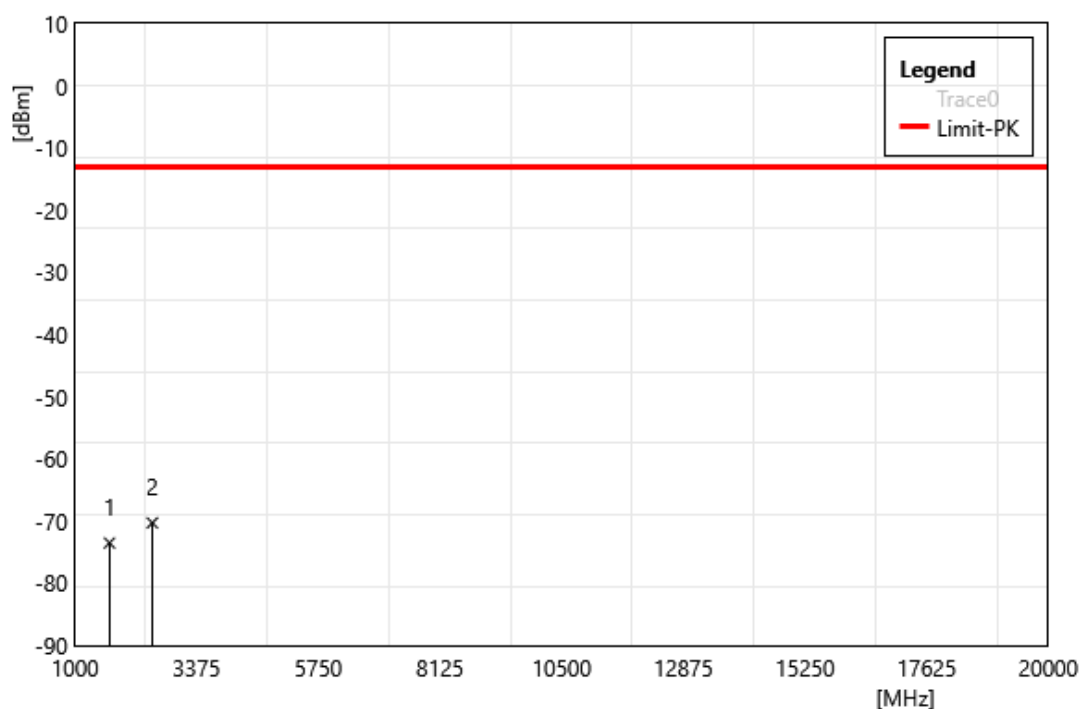
Note: 1. Below 1 GHz Substituted Method Test : Sleeve dipole antenna to Bi-Log Antenna

2. Above 1 GHz Substituted Method Test : Horn antenna to Horn Antenna

4 Test Results

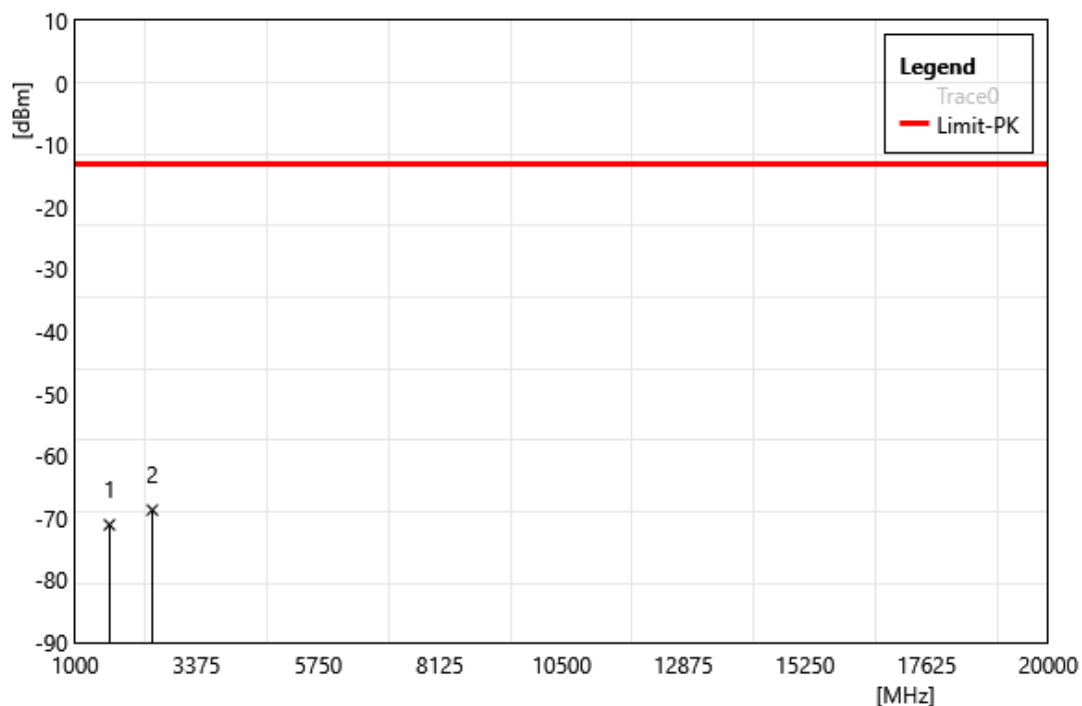
4.1. Radiated Emission

Test Site:	96603-WG	Standard:	Part 22
Test Mode:	n5 SA 15k QPSK BW:15M		
	836.5 MHz		
Polarization:	Horizontal		
Remark:			



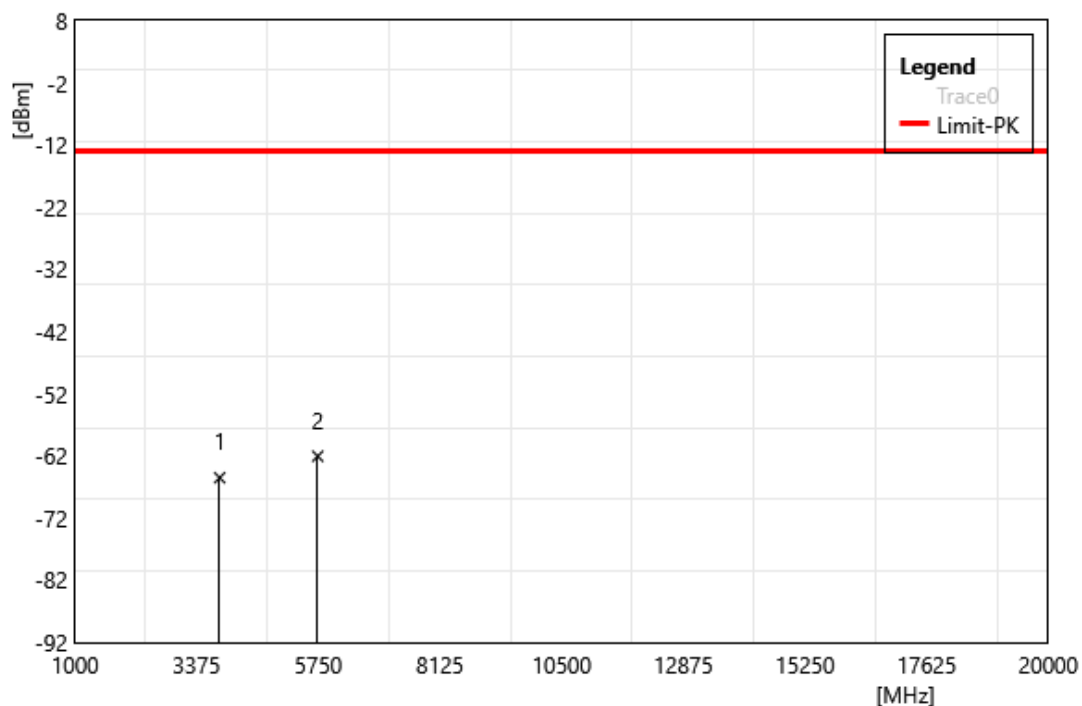
ID	Frequency MHz	Reading dBm	Correct Factor dB/m	Result dBm	Limit dBm	Margin dB	Remark
1	1673.00	-66.15	-7.38	-73.53	-13.00	-60.53	PEAK
2	2509.50	-65.36	-4.93	-70.29	-13.00	-57.29	PEAK

Test Site:	96603-WG	Standard:	Part 22
Test Mode:	n5 SA 15k QPSK BW:15M		
	836.5 MHz		
Polarization:	Vertical		
Remark:			



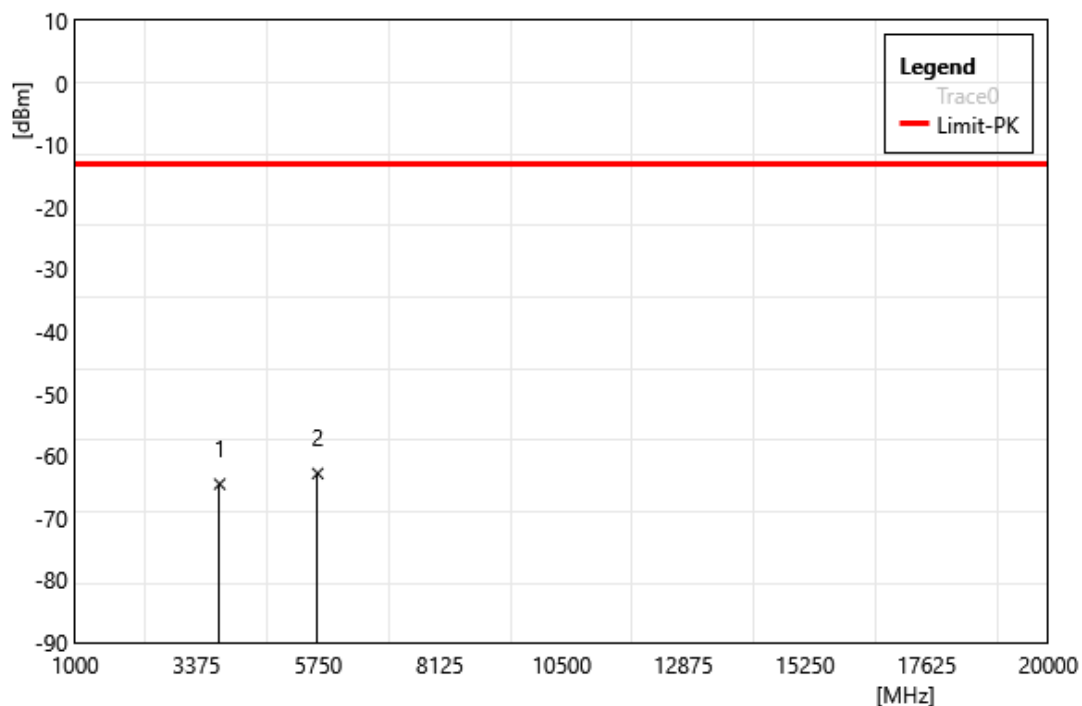
ID	Frequency MHz	Reading dBm	Correct Factor dB/m	Result dBm	Limit dBm	Margin dB	Remark
1	1673.00	-63.70	-7.38	-71.08	-13.00	-58.08	PEAK
2	2509.50	-63.78	-4.93	-68.71	-13.00	-55.71	PEAK

Test Site:	96603-WG	Standard:	Part 24
Test Mode:	n2 SA 15k QPSK BW:5M		
	1912.5 MHz		
Polarization:	Horizontal		
Remark:			



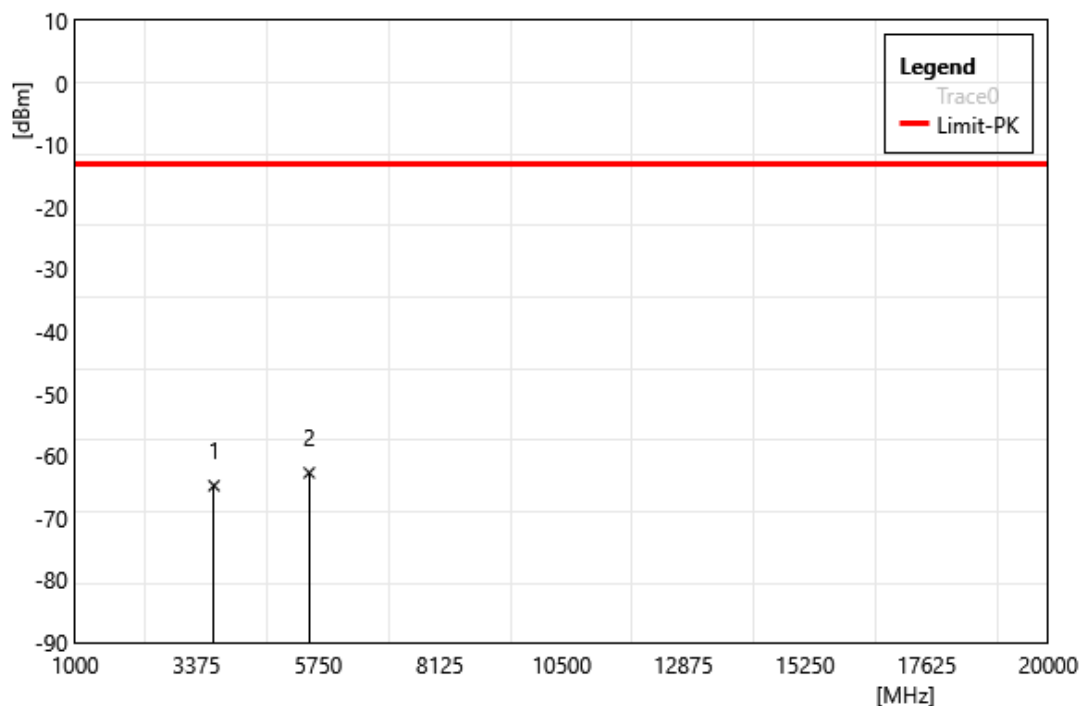
ID	Frequency MHz	Reading dBm	Correct Factor dB/m	Result dBm	Limit dBm	Margin dB	Remark
1	3825.00	-65.11	-0.41	-65.52	-13.00	-52.52	PEAK
2	5737.50	-65.11	3.05	-62.06	-13.00	-49.06	PEAK

Test Site:	96603-WG	Standard:	Part 24
Test Mode:	n2 SA 15k QPSK BW:5M		
	1912.5 MHz		
Polarization:	Vertical		
Remark:			



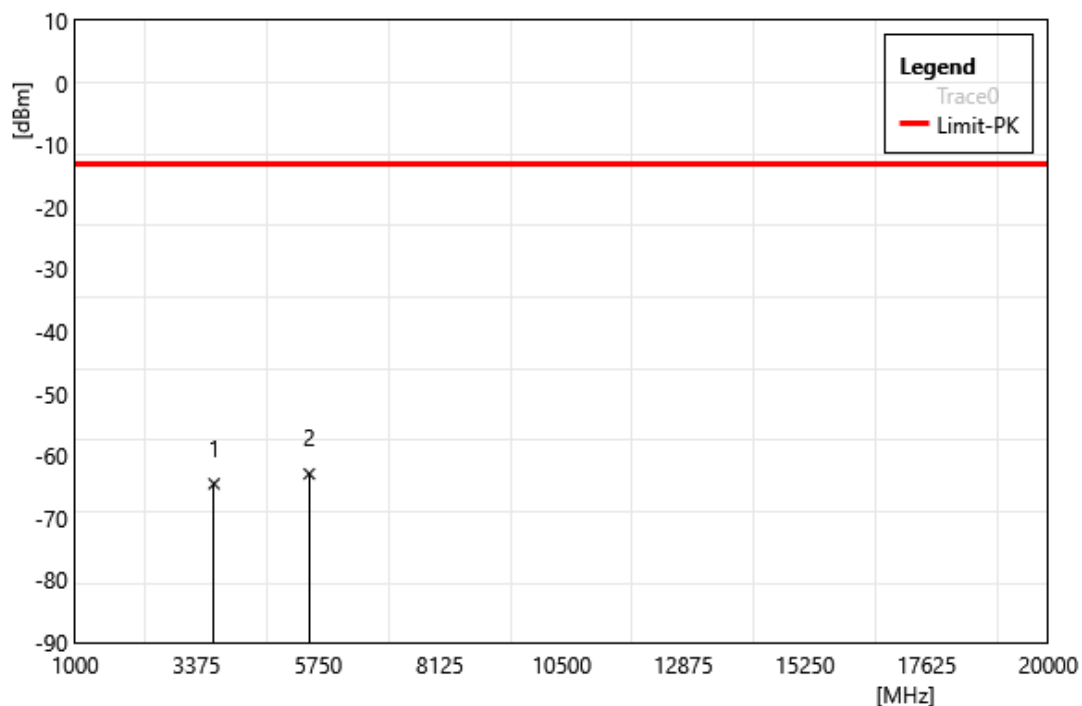
ID	Frequency MHz	Reading dBm	Correct Factor dB/m	Result dBm	Limit dBm	Margin dB	Remark
1	3825.00	-64.13	-0.41	-64.54	-13.00	-51.54	PEAK
2	5737.50	-65.89	3.05	-62.84	-13.00	-49.84	PEAK

Test Site:	96603-WG	Standard:	Part 24
Test Mode:	n25 SA 15k QPSK BW:15M		
	1857.5 MHz		
Polarization:	Horizontal		
Remark:			



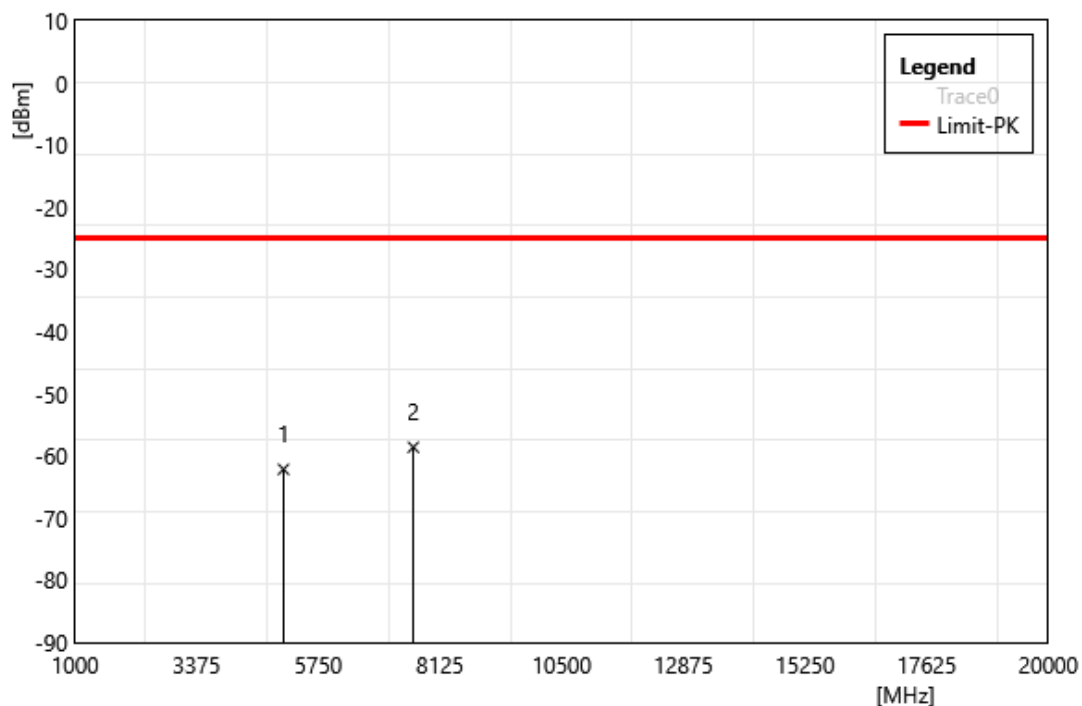
ID	Frequency MHz	Reading dBm	Correct Factor dB/m	Result dBm	Limit dBm	Margin dB	Remark
1	3715.00	-63.80	-1.00	-64.80	-13.00	-51.80	PEAK
2	5572.50	-65.13	2.41	-62.72	-13.00	-49.72	PEAK

Test Site:	96603-WG	Standard:	Part 24
Test Mode:	n25 SA 15k QPSK BW:15M		
	1857.5 MHz		
Polarization:	Vertical		
Remark:			



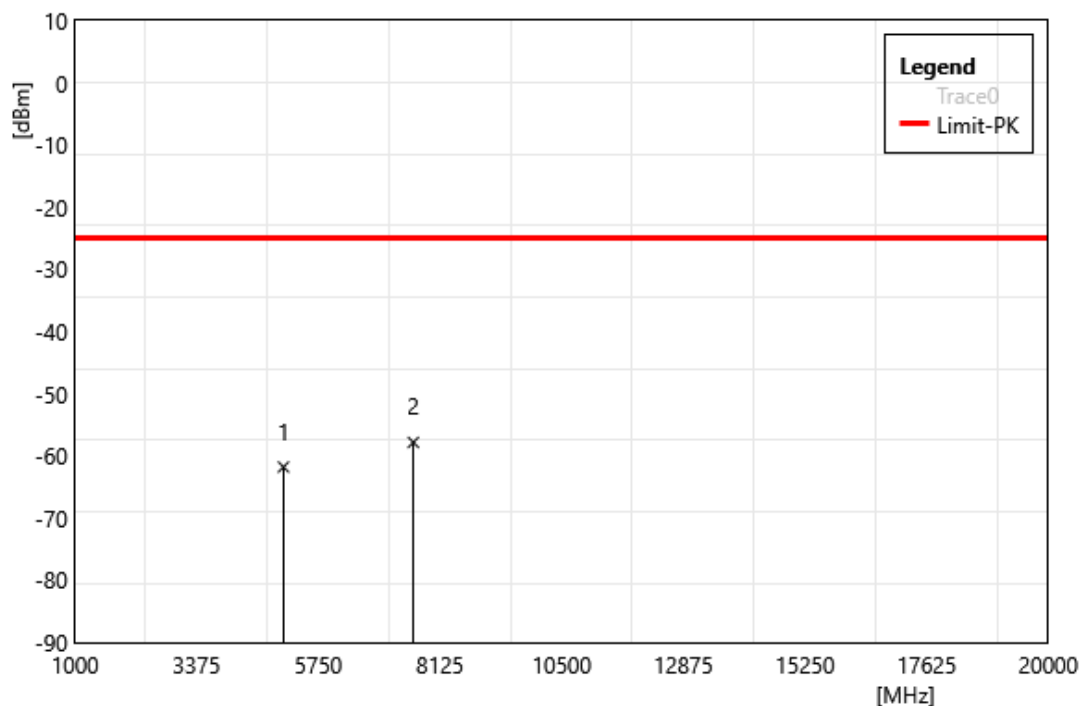
ID	Frequency MHz	Reading dBm	Correct Factor dB/m	Result dBm	Limit dBm	Margin dB	Remark
1	3715.00	-63.50	-1.00	-64.50	-13.00	-51.50	PEAK
2	5572.50	-65.30	2.41	-62.89	-13.00	-49.89	PEAK

Test Site:	96603-WG	Standard:	Part 27
Test Mode:	n7 SA 15k QPSK BW:25M		
	2535 MHz		
Polarization:	Horizontal		
Remark:			



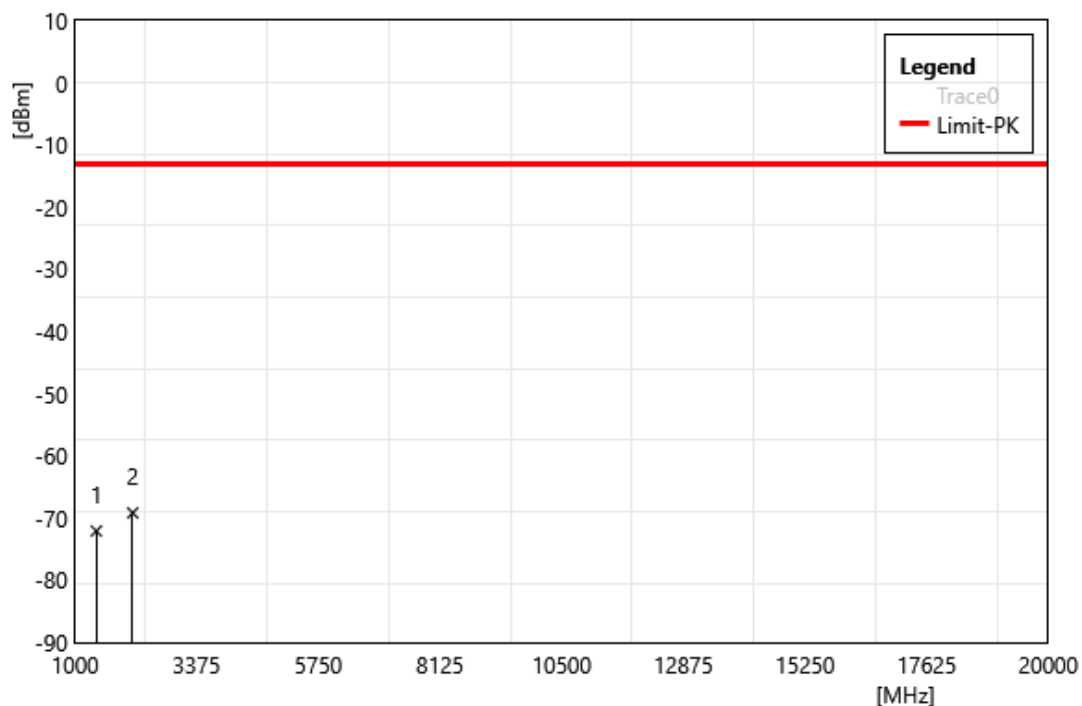
ID	Frequency MHz	Reading dBm	Correct Factor dB/m	Result dBm	Limit dBm	Margin dB	Remark
1	5070.00	-63.92	1.75	-62.17	-25.00	-37.17	PEAK
2	7605.00	-65.45	6.84	-58.61	-25.00	-33.61	PEAK

Test Site:	96603-WG	Standard:	Part 27
Test Mode:	n7 SA 15k QPSK BW:25M		
	2535 MHz		
Polarization:	Vertical		
Remark:			



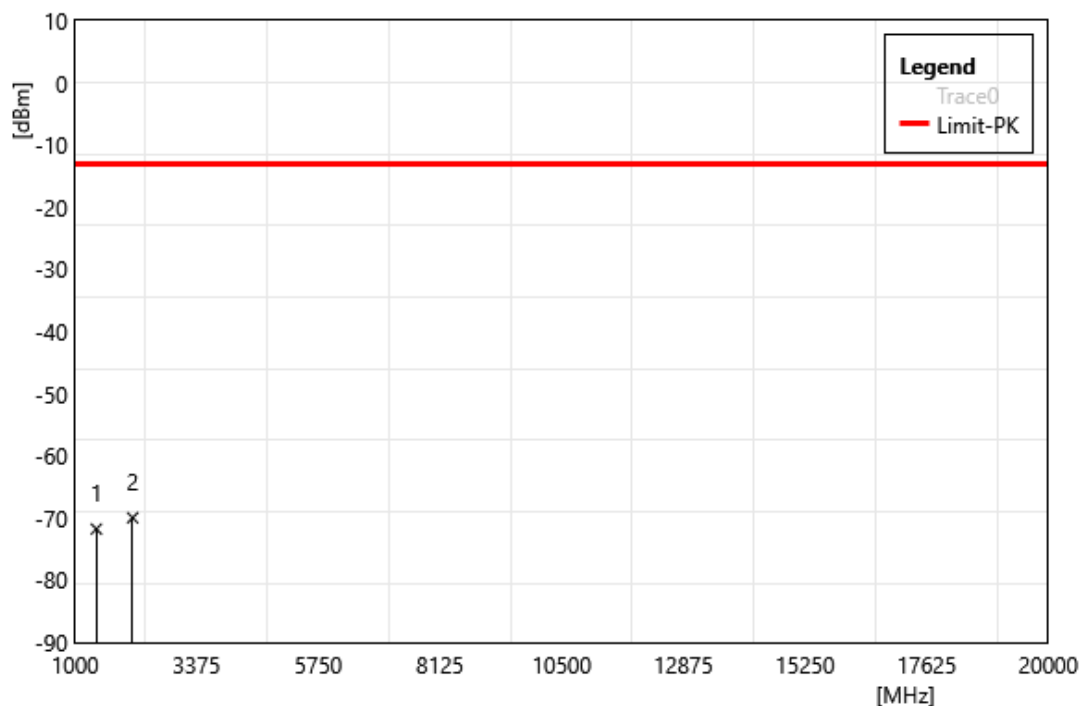
ID	Frequency MHz	Reading dBm	Correct Factor dB/m	Result dBm	Limit dBm	Margin dB	Remark
1	5070.00	-63.54	1.75	-61.79	-25.00	-36.79	PEAK
2	7605.00	-64.67	6.84	-57.83	-25.00	-32.83	PEAK

Test Site:	96603-WG	Standard:	Part 27
Test Mode:	n12 SA 15k QPSK BW:15M		
	708.5 MHz		
Polarization:	Horizontal		
Remark:			



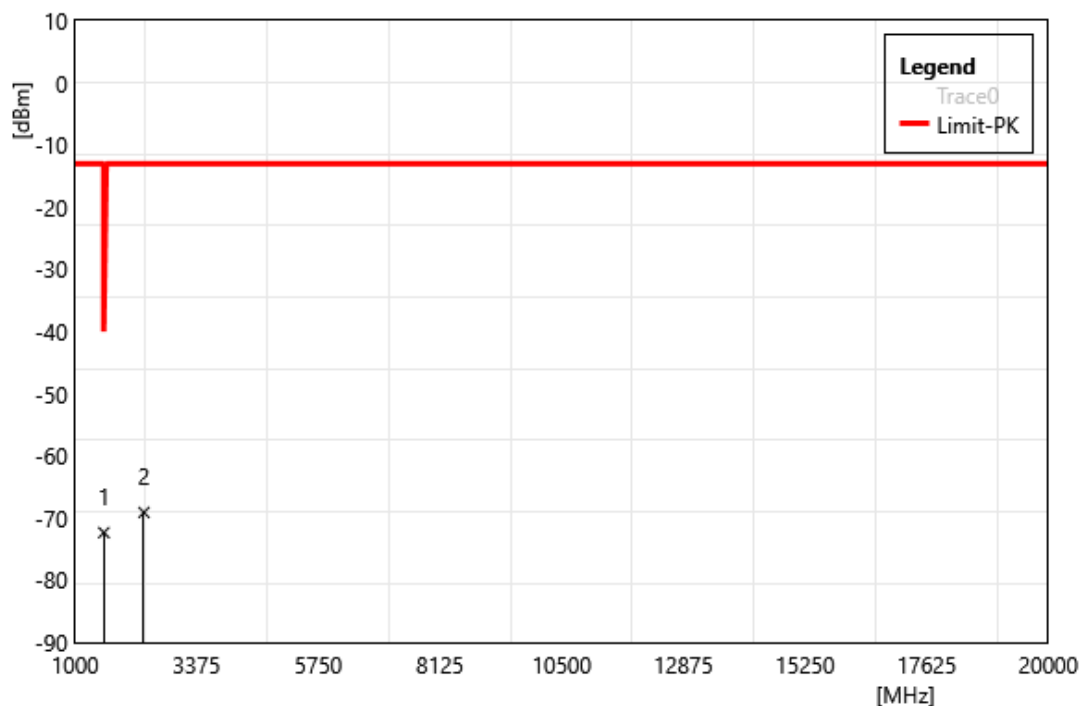
ID	Frequency MHz	Reading dBm	Correct Factor dB/m	Result dBm	Limit dBm	Margin dB	Remark
1	1417.00	-65.13	-6.95	-72.08	-13.00	-59.08	PEAK
2	2125.50	-63.80	-5.37	-69.17	-13.00	-56.17	PEAK

Test Site:	96603-WG	Standard:	Part 27
Test Mode:	n12 SA 15k QPSK BW:15M		
	708.5 MHz		
Polarization:	Vertical		
Remark:			



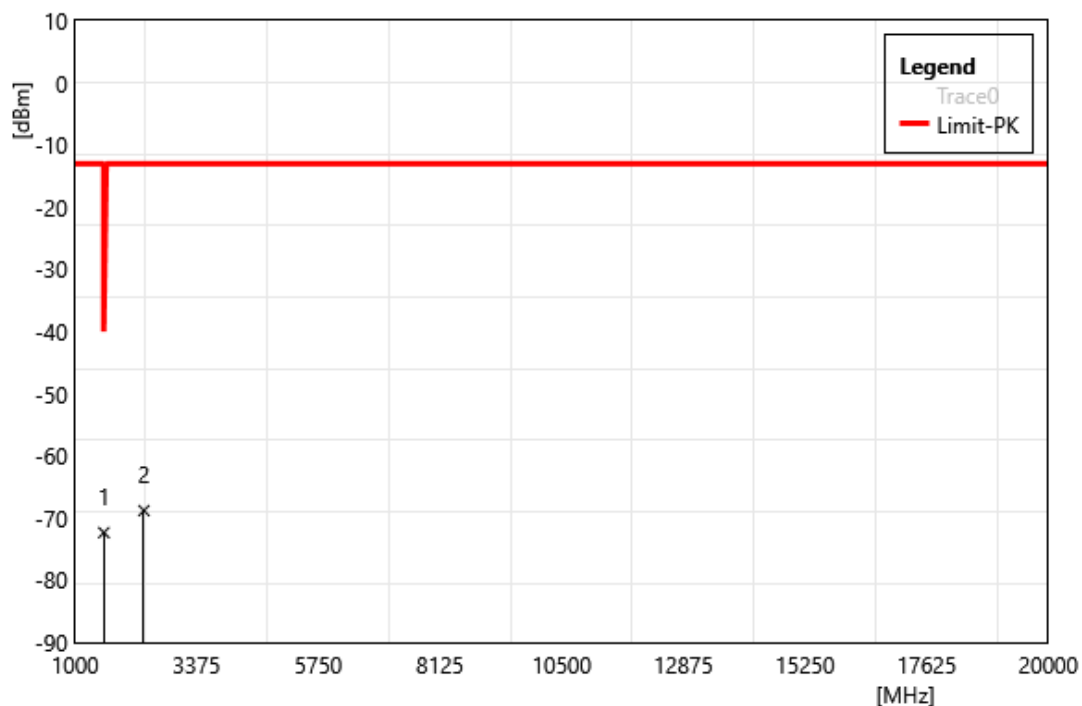
ID	Frequency MHz	Reading dBm	Correct Factor dB/m	Result dBm	Limit dBm	Margin dB	Remark
1	1417.00	-64.81	-6.95	-71.76	-13.00	-58.76	PEAK
2	2125.50	-64.59	-5.37	-69.96	-13.00	-56.96	PEAK

Test Site:	96603-WG	Standard:	Part 27
Test Mode:	n13 SA 15k QPSK BW:10M		
	782 MHz		
Polarization:	Horizontal		
Remark:			



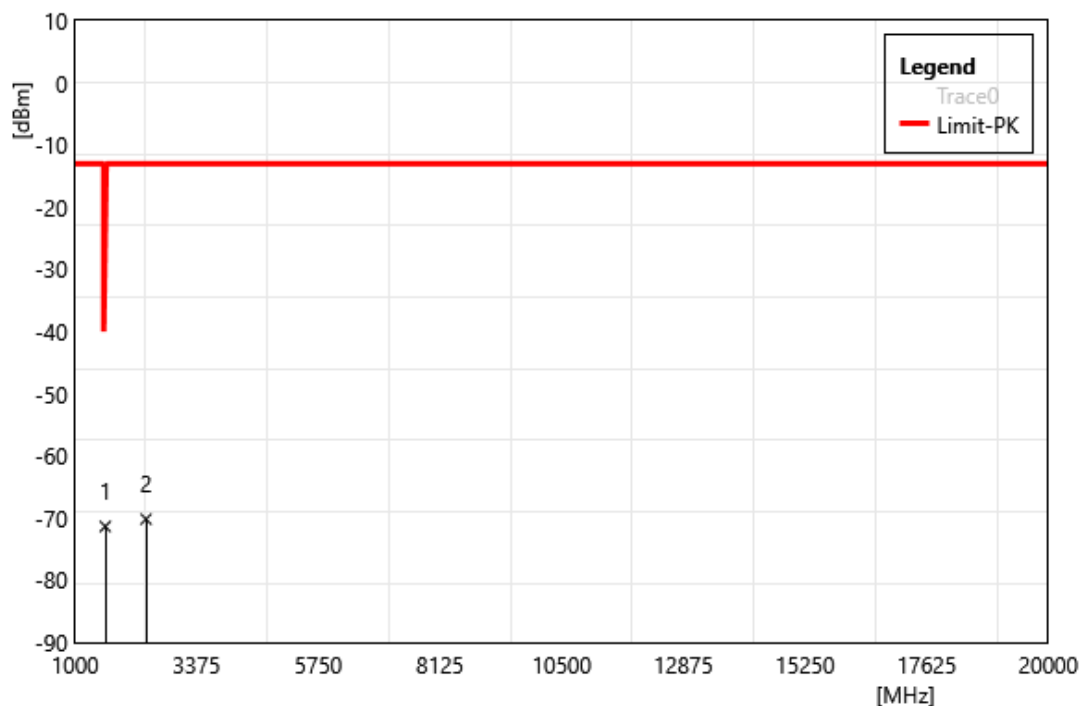
ID	Frequency MHz	Reading dBm	Correct Factor dB/m	Result dBm	Limit dBm	Margin dB	Remark
1	1564.00	-64.97	-7.36	-72.33	-40.00	-32.33	PEAK
2	2346.00	-64.76	-4.33	-69.09	-13.00	-56.09	PEAK

Test Site:	96603-WG	Standard:	Part 27
Test Mode:	n13 SA 15k QPSK BW:10M		
	782 MHz		
Polarization:	Vertical		
Remark:			



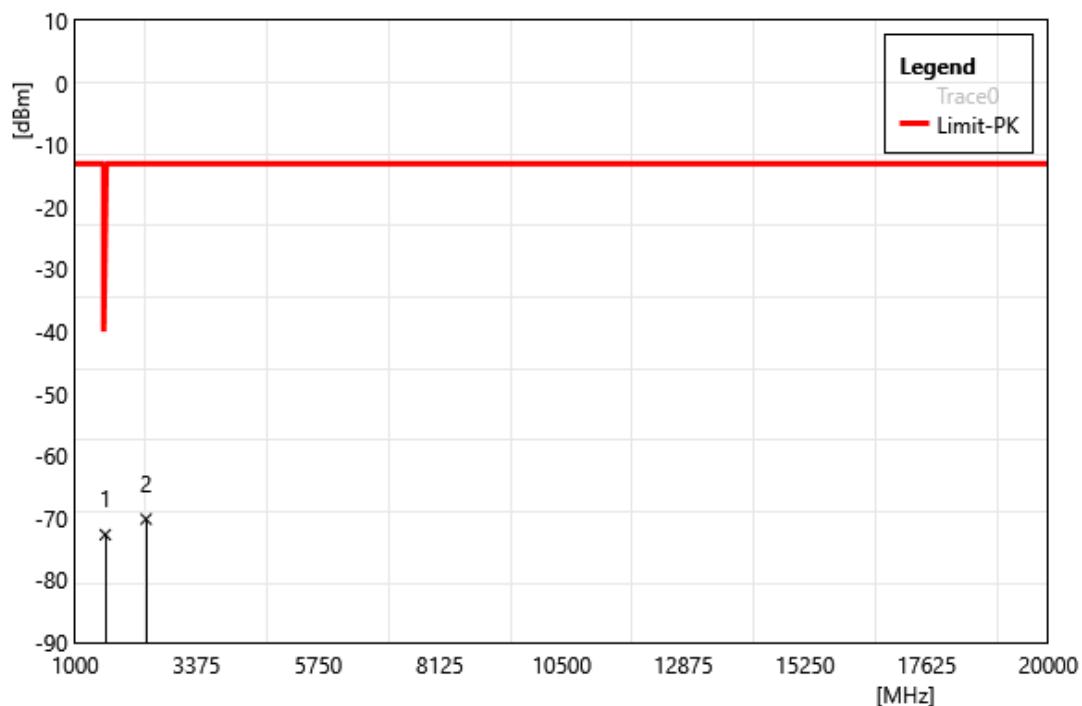
ID	Frequency MHz	Reading dBm	Correct Factor dB/m	Result dBm	Limit dBm	Margin dB	Remark
1	1564.00	-64.98	-7.36	-72.34	-40.00	-32.34	PEAK
2	2346.00	-64.48	-4.33	-68.81	-13.00	-55.81	PEAK

Test Site:	96603-WG	Standard:	Part 90
Test Mode:	n14 SA 15k QPSK BW:5M		
	795.5 MHz		
Polarization:	Horizontal		
Remark:			



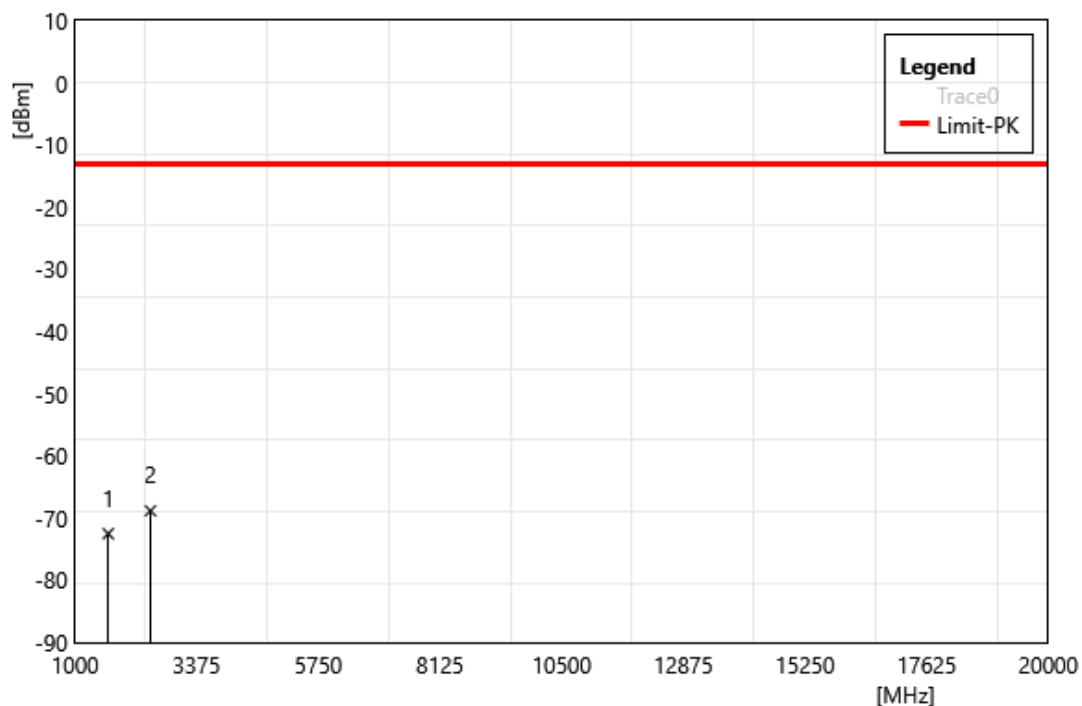
ID	Frequency MHz	Reading dBm	Correct Factor dB/m	Result dBm	Limit dBm	Margin dB	Remark
1	1591.00	-63.82	-7.53	-71.35	-40.00	-31.35	PEAK
2	2386.50	-65.36	-4.82	-70.18	-13.00	-57.18	PEAK

Test Site:	96603-WG	Standard:	Part 90
Test Mode:	n14 SA 15k QPSK BW:5M		
	795.5 MHz		
Polarization:	Vertical		
Remark:			



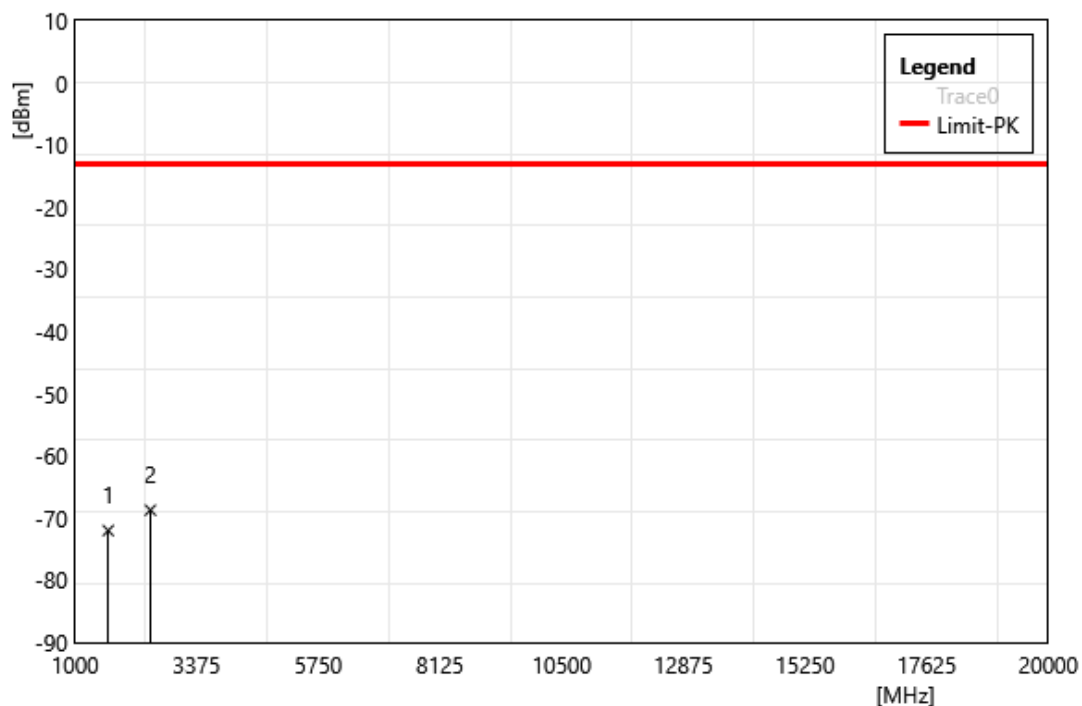
ID	Frequency MHz	Reading dBm	Correct Factor dB/m	Result dBm	Limit dBm	Margin dB	Remark
1	1591.00	-65.14	-7.53	-72.67	-40.00	-32.67	PEAK
2	2386.50	-65.35	-4.82	-70.17	-13.00	-57.17	PEAK

Test Site:	96603-WG	Standard:	Part 90
Test Mode:	n26 SA 15k QPSK BW:20M		
	824 MHz		
Polarization:	Horizontal		
Remark:			



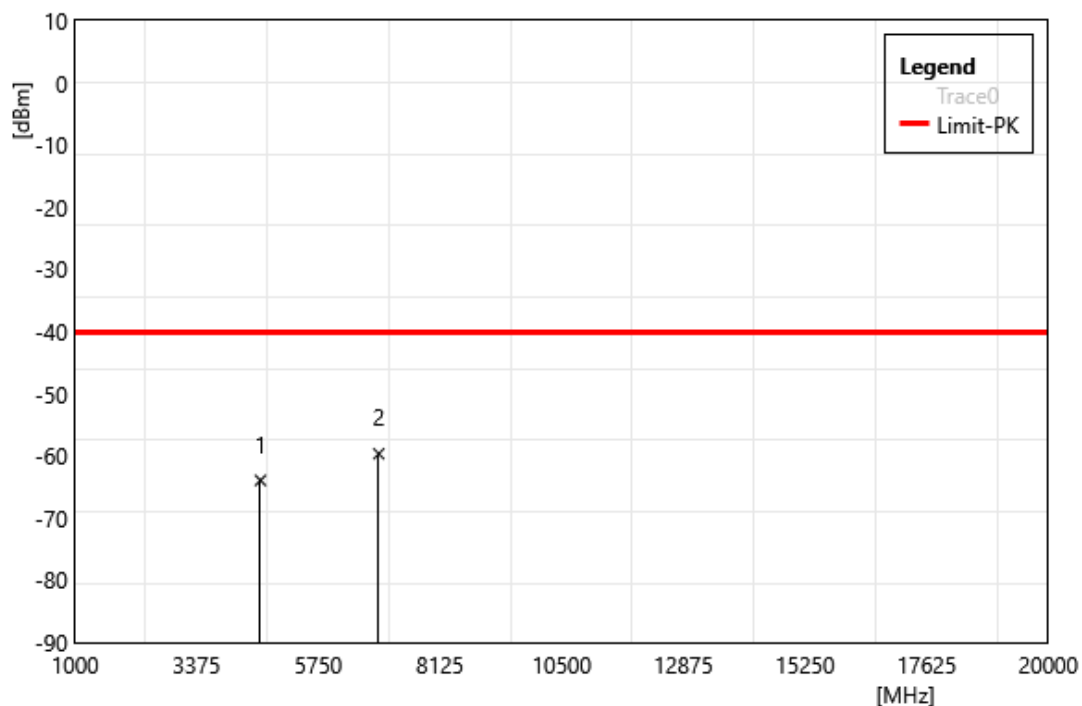
ID	Frequency MHz	Reading dBm	Correct Factor dB/m	Result dBm	Limit dBm	Margin dB	Remark
1	1648.00	-65.05	-7.47	-72.52	-13.00	-59.52	PEAK
2	2472.00	-64.01	-4.82	-68.83	-13.00	-55.83	PEAK

Test Site:	96603-WG	Standard:	Part 90
Test Mode:	n26 SA 15k QPSK BW:20M		
	824 MHz		
Polarization:	Vertical		
Remark:			



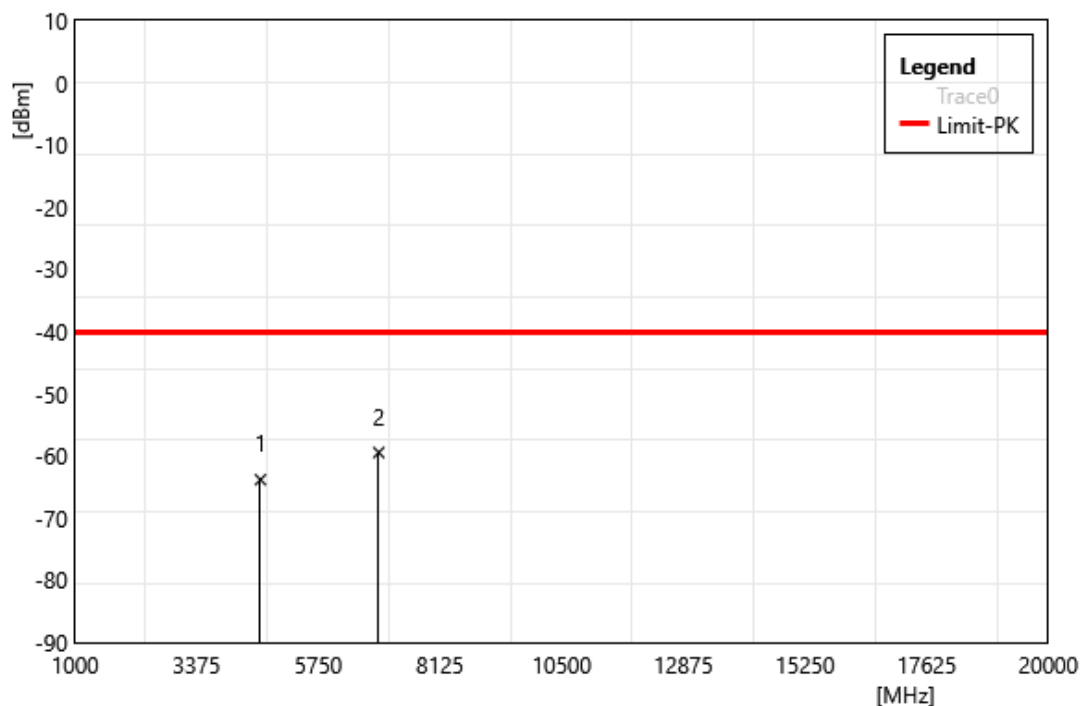
ID	Frequency MHz	Reading dBm	Correct Factor dB/m	Result dBm	Limit dBm	Margin dB	Remark
1	1648.00	-64.54	-7.47	-72.01	-13.00	-59.01	PEAK
2	2472.00	-63.92	-4.82	-68.74	-13.00	-55.74	PEAK

Test Site:	96603-WG	Standard:	Part 27
Test Mode:	n30 SA 15k QPSK BW:10M		
	2310 MHz		
Polarization:	Horizontal		
Remark:			



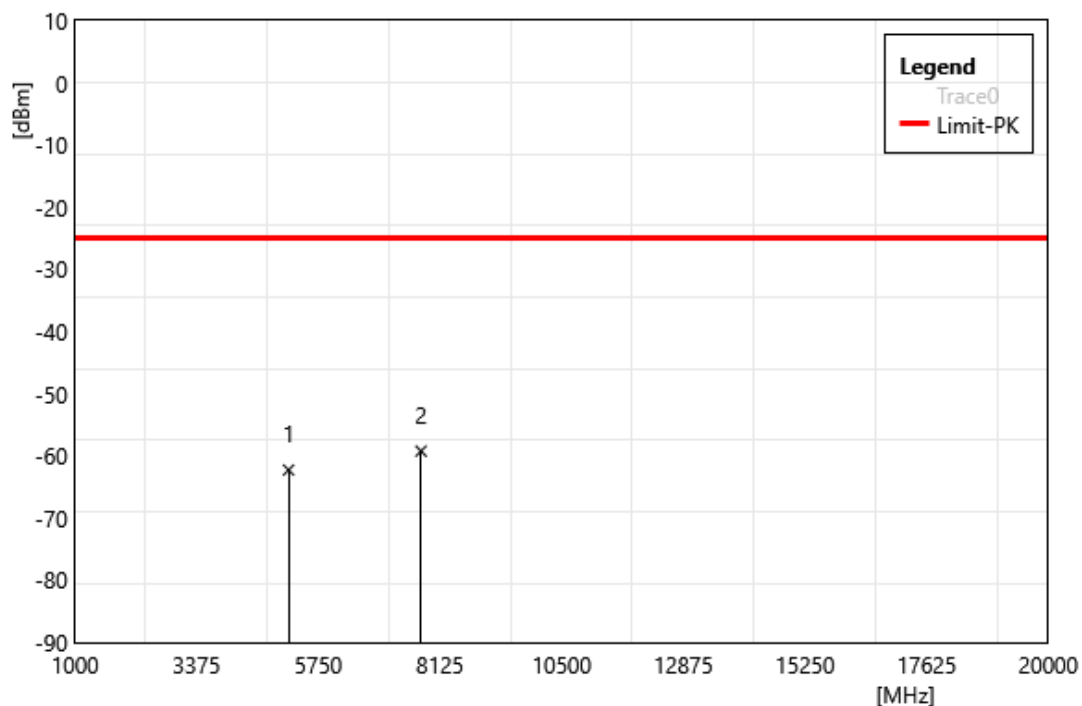
ID	Frequency MHz	Reading dBm	Correct Factor dB/m	Result dBm	Limit dBm	Margin dB	Remark
1	4620.00	-64.89	0.95	-63.94	-40.00	-23.94	PEAK
2	6930.00	-65.96	6.30	-59.66	-40.00	-19.66	PEAK

Test Site:	96603-WG	Standard:	Part 27
Test Mode:	n30 SA 15k QPSK BW:10M		
	2310 MHz		
Polarization:	Vertical		
Remark:			



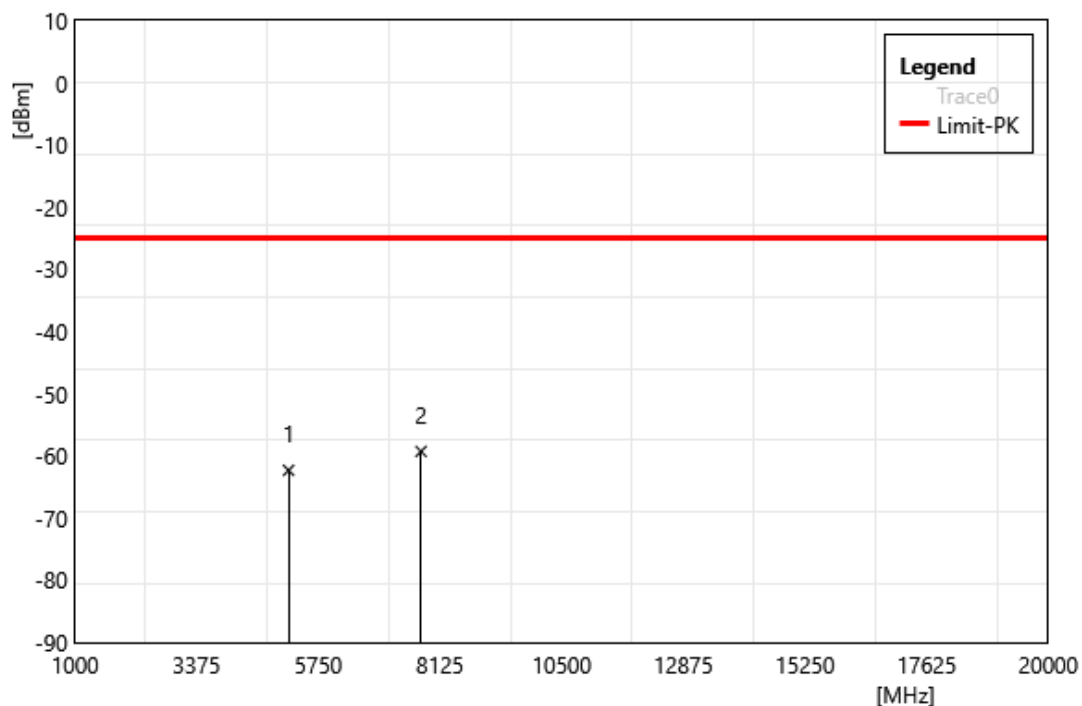
ID	Frequency MHz	Reading dBm	Correct Factor dB/m	Result dBm	Limit dBm	Margin dB	Remark
1	4620.00	-64.78	0.95	-63.83	-40.00	-23.83	PEAK
2	6930.00	-65.76	6.30	-59.46	-40.00	-19.46	PEAK

Test Site:	96603-WG	Standard:	Part 27
Test Mode:	n38 SA 30k QPSK BW:30M		
	2585 MHz		
Polarization:	Horizontal		
Remark:			



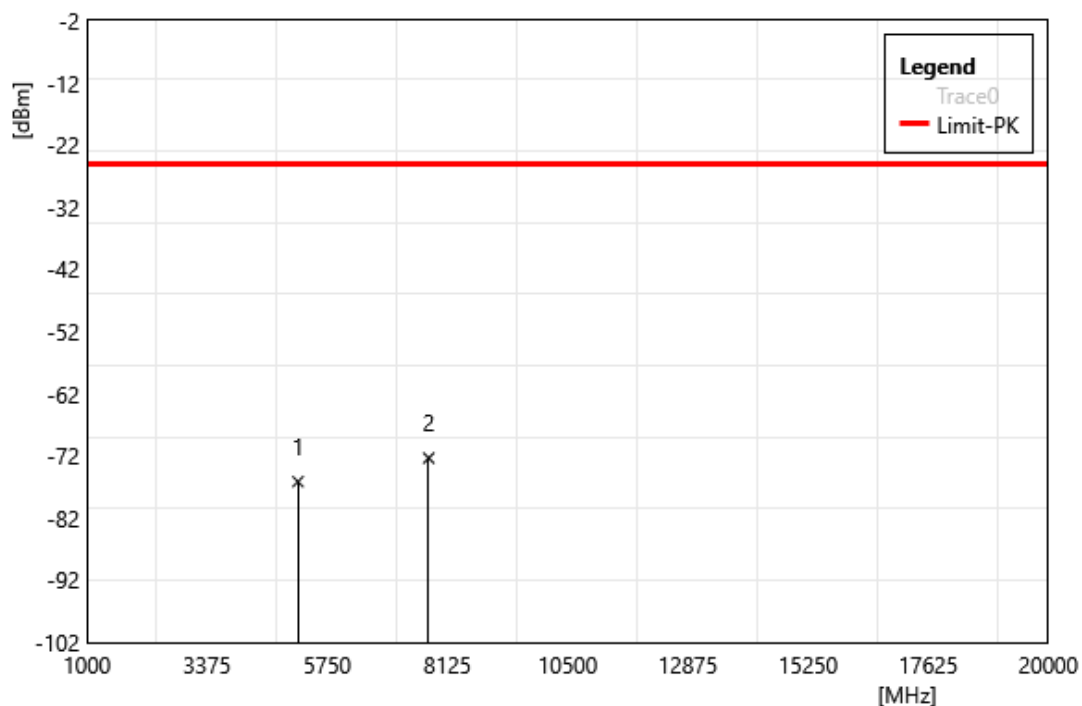
ID	Frequency MHz	Reading dBm	Correct Factor dB/m	Result dBm	Limit dBm	Margin dB	Remark
1	5170.00	-64.13	1.86	-62.27	-25.00	-37.27	PEAK
2	7755.00	-65.84	6.61	-59.23	-25.00	-34.23	PEAK

Test Site:	96603-WG	Standard:	Part 27
Test Mode:	n38 SA 30k QPSK BW:30M		
	2585 MHz		
Polarization:	Vertical		
Remark:			



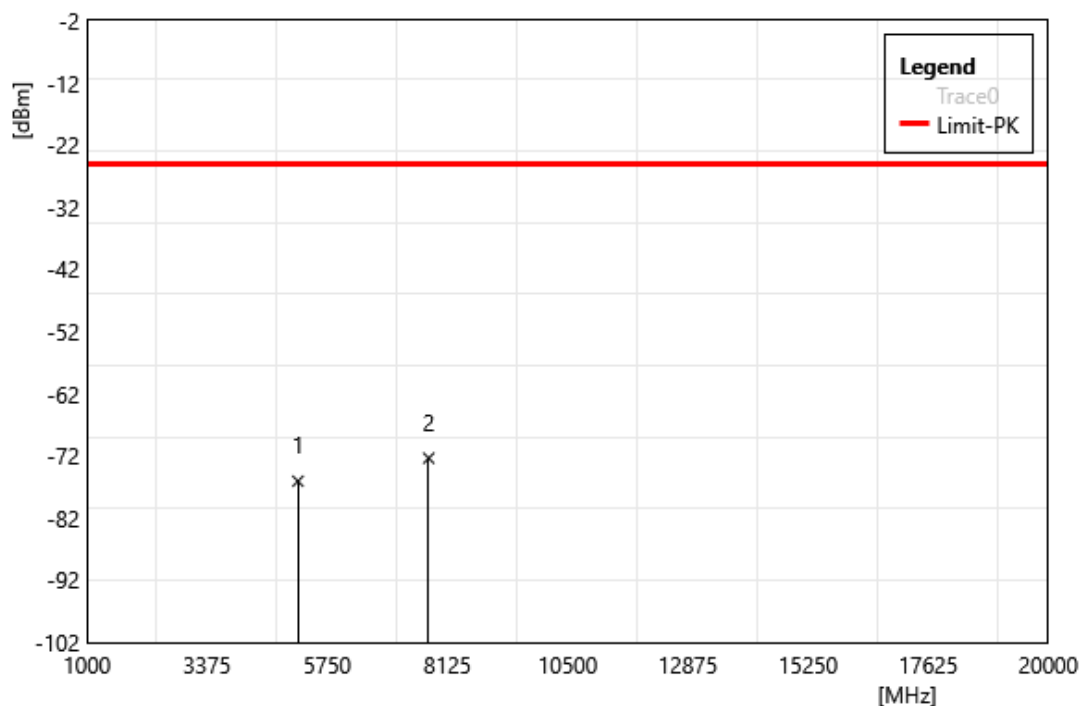
ID	Frequency MHz	Reading dBm	Correct Factor dB/m	Result dBm	Limit dBm	Margin dB	Remark
1	5170.00	-64.18	1.86	-62.32	-25.00	-37.32	PEAK
2	7755.00	-65.90	6.61	-59.29	-25.00	-34.29	PEAK

Test Site:	96603-WG	Standard:	Part 27
Test Mode:	n38 SA 30k QPSK BW:30M		
	2585 MHz		
Polarization:	Horizontal		
Remark:	High Power UE		



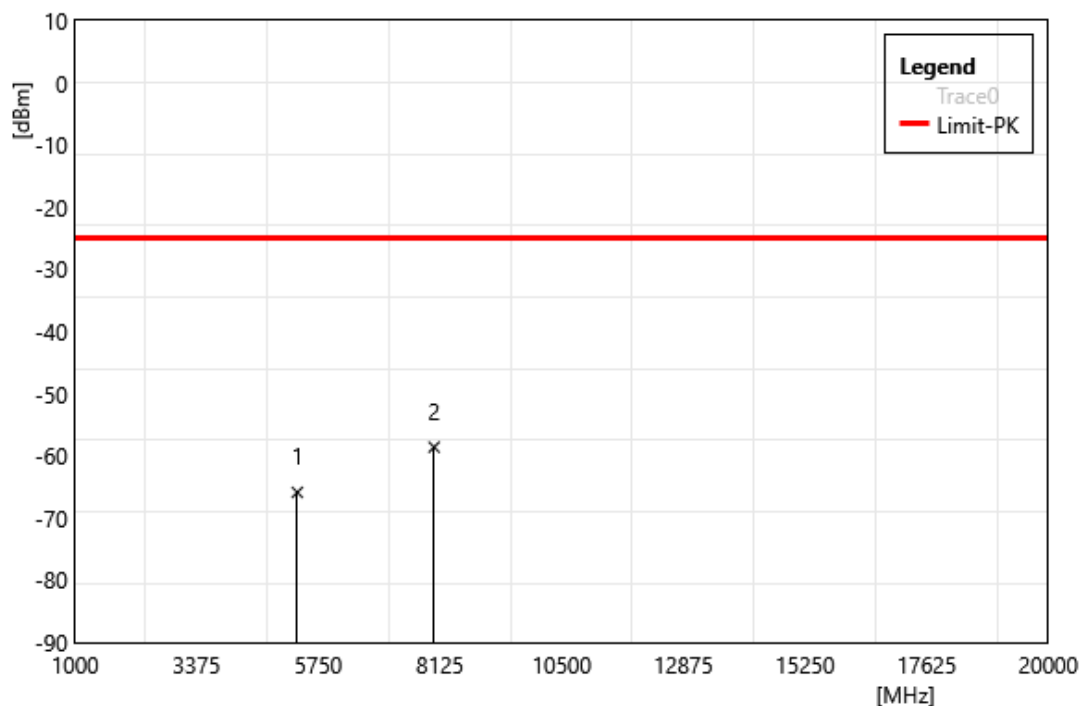
ID	Frequency MHz	Reading dBm	Correct Factor dB/m	Result dBm	Limit dBm	Margin dB	Remark
1	5170.00	-78.01	1.86	-76.15	-25.00	-51.15	PEAK
2	7755.00	-78.96	6.61	-72.35	-25.00	-47.35	PEAK

Test Site:	96603-WG	Standard:	Part 27
Test Mode:	n38 SA 30k QPSK BW:30M		
	2585 MHz		
Polarization:	Vertical		
Remark:	High Power UE		



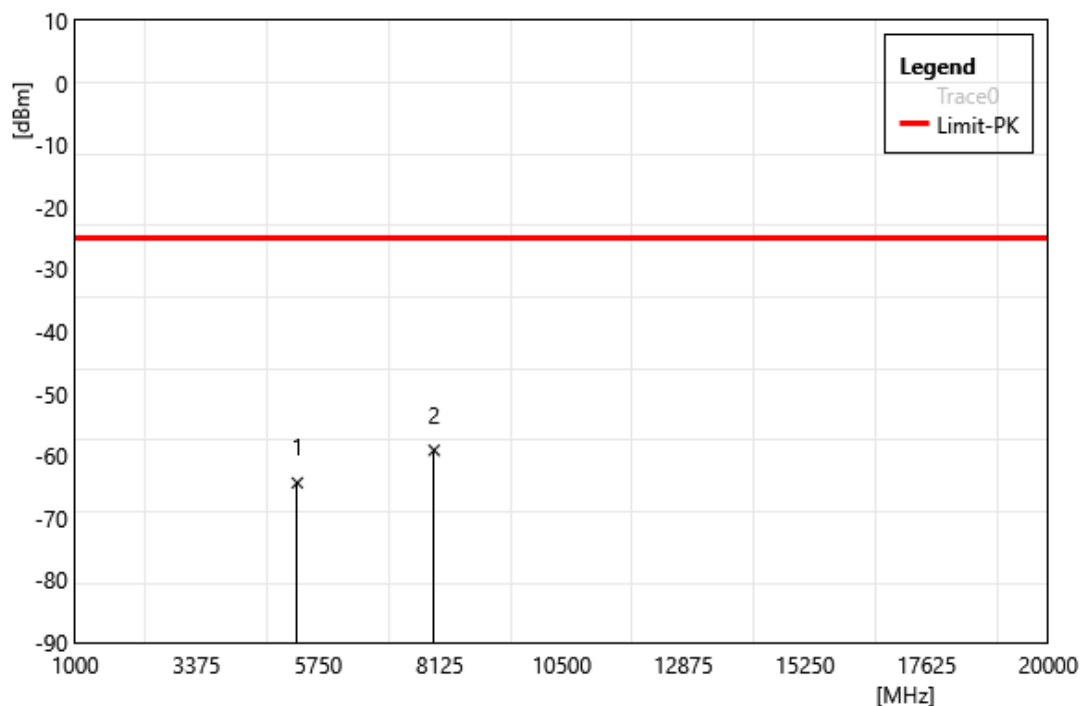
ID	Frequency MHz	Reading dBm	Correct Factor dB/m	Result dBm	Limit dBm	Margin dB	Remark
1	5170.00	-77.93	1.86	-76.07	-25.00	-51.07	PEAK
2	7755.00	-78.97	6.61	-72.36	-25.00	-47.36	PEAK

Test Site:	96603-WG	Standard:	Part 27
Test Mode:	n41 SA 30k QPSK BW:40M		
	2670 MHz		
Polarization:	Horizontal		
Remark:			



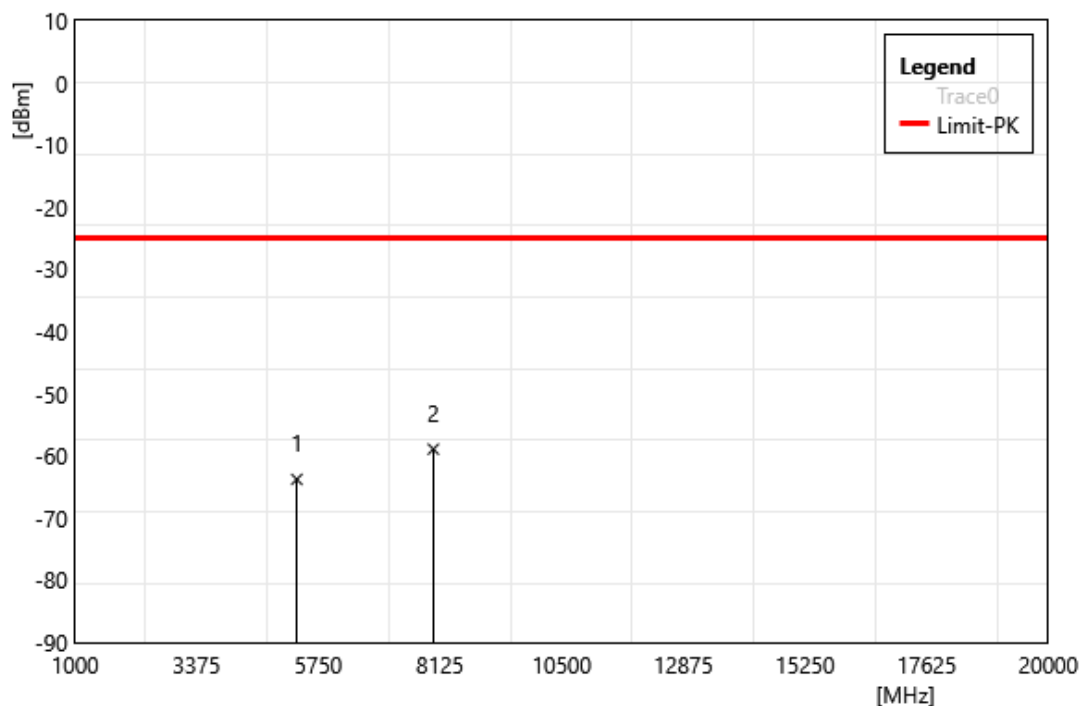
ID	Frequency MHz	Reading dBm	Correct Factor dB/m	Result dBm	Limit dBm	Margin dB	Remark
1	5340.00	-67.37	1.50	-65.87	-25.00	-40.87	PEAK
2	8010.00	-65.33	6.74	-58.59	-25.00	-33.59	PEAK

Test Site:	96603-WG	Standard:	Part 27
Test Mode:	n41 SA 30k QPSK BW:40M		
	2670 MHz		
Polarization:	Vertical		
Remark:			



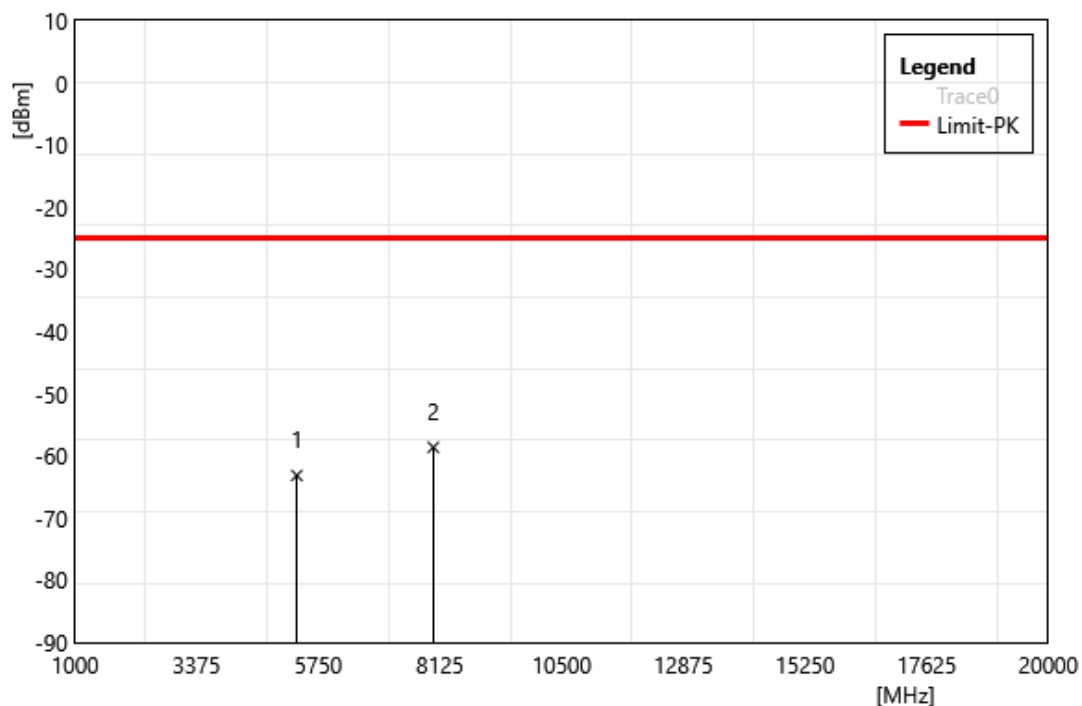
ID	Frequency MHz	Reading dBm	Correct Factor dB/m	Result dBm	Limit dBm	Margin dB	Remark
1	5340.00	-65.84	1.50	-64.34	-25.00	-39.34	PEAK
2	8010.00	-65.84	6.74	-59.10	-25.00	-34.10	PEAK

Test Site:	96603-WG	Standard:	Part 27
Test Mode:	n41 SA 30k QPSK BW:50M		
	2664.99 MHz		
Polarization:	Horizontal		
Remark:	High Power UE		



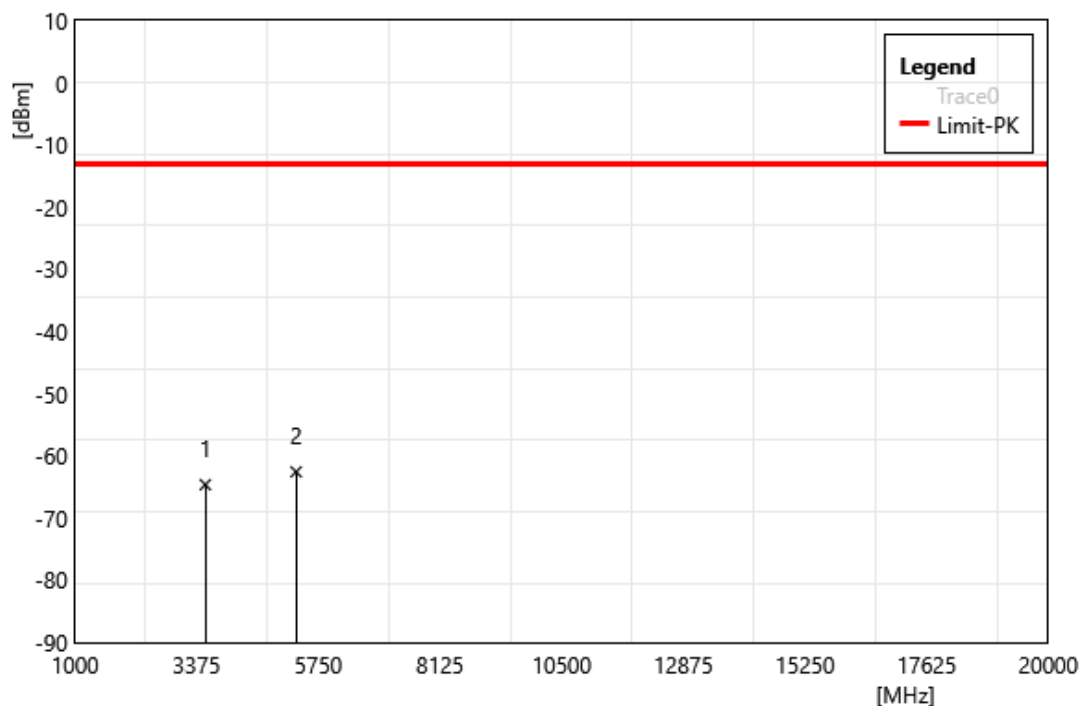
ID	Frequency MHz	Reading dBm	Correct Factor dB/m	Result dBm	Limit dBm	Margin dB	Remark
1	5329.98	-65.30	1.52	-63.78	-25.00	-38.78	PEAK
2	7994.97	-65.69	6.78	-58.91	-25.00	-33.91	PEAK

Test Site:	96603-WG	Standard:	Part 27
Test Mode:	n41 SA 30k QPSK BW:50M		
	2664.99 MHz		
Polarization:	Vertical		
Remark:	High Power UE		



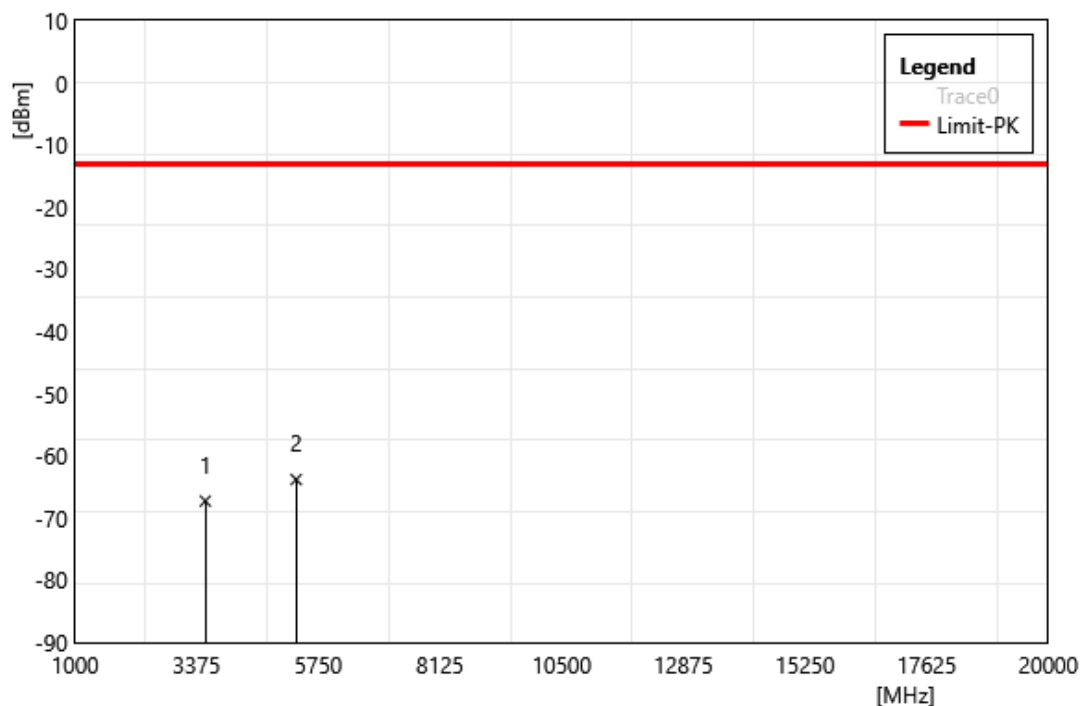
ID	Frequency MHz	Reading dBm	Correct Factor dB/m	Result dBm	Limit dBm	Margin dB	Remark
1	5329.98	-64.67	1.52	-63.15	-25.00	-38.15	PEAK
2	7994.97	-65.40	6.78	-58.62	-25.00	-33.62	PEAK

Test Site:	96603-WG	Standard:	Part 27
Test Mode:	n66 SA 15k QPSK BW:15M		
	1772.5 MHz		
Polarization:	Horizontal		
Remark:			



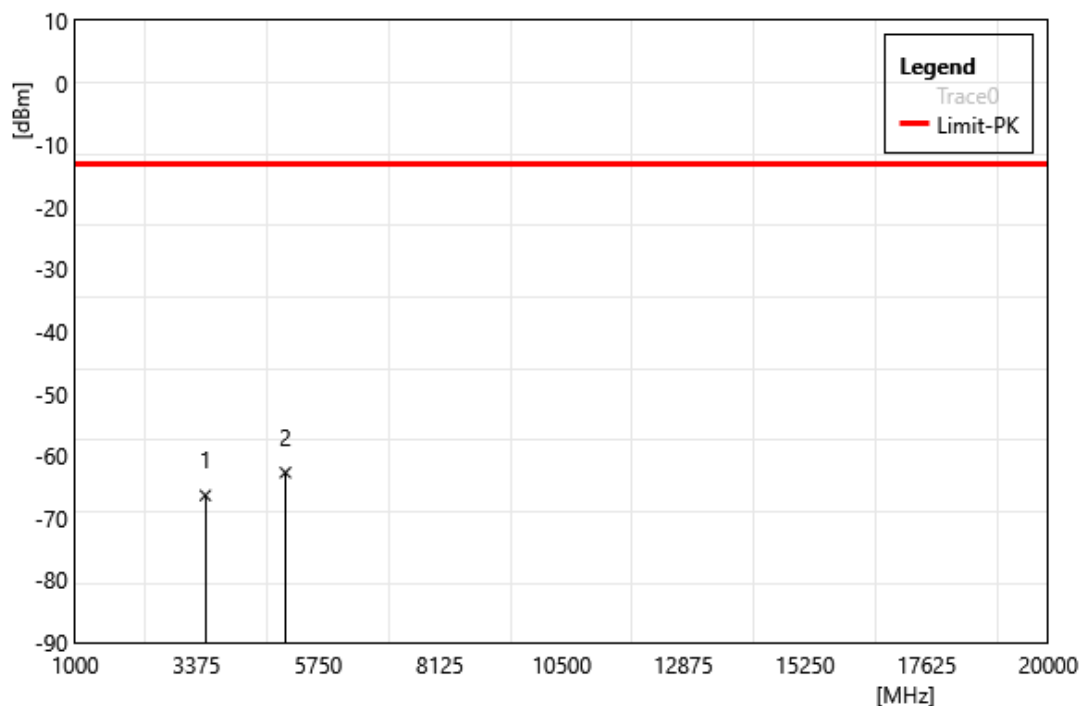
ID	Frequency MHz	Reading dBm	Correct Factor dB/m	Result dBm	Limit dBm	Margin dB	Remark
1	3545.00	-63.16	-1.47	-64.63	-13.00	-51.63	PEAK
2	5317.50	-64.10	1.53	-62.57	-13.00	-49.57	PEAK

Test Site:	96603-WG	Standard:	Part 27
Test Mode:	n66 SA 15k QPSK BW:15M		
	1772.5 MHz		
Polarization:	Vertical		
Remark:			



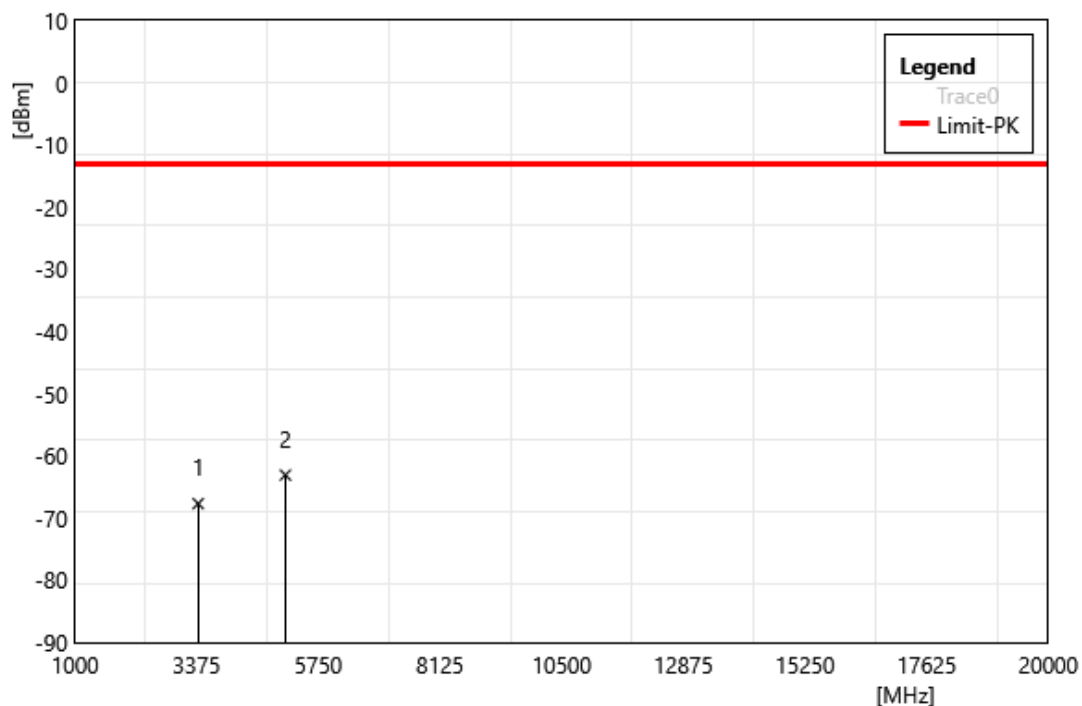
ID	Frequency MHz	Reading dBm	Correct Factor dB/m	Result dBm	Limit dBm	Margin dB	Remark
1	3545.00	-65.79	-1.47	-67.26	-13.00	-54.26	PEAK
2	5317.50	-65.33	1.53	-63.80	-13.00	-50.80	PEAK

Test Site:	96603-WG	Standard:	Part 27
Test Mode:	n70 SA 15k QPSK BW:15M		
	1702.5 MHz		
Polarization:	Horizontal		
Remark:			



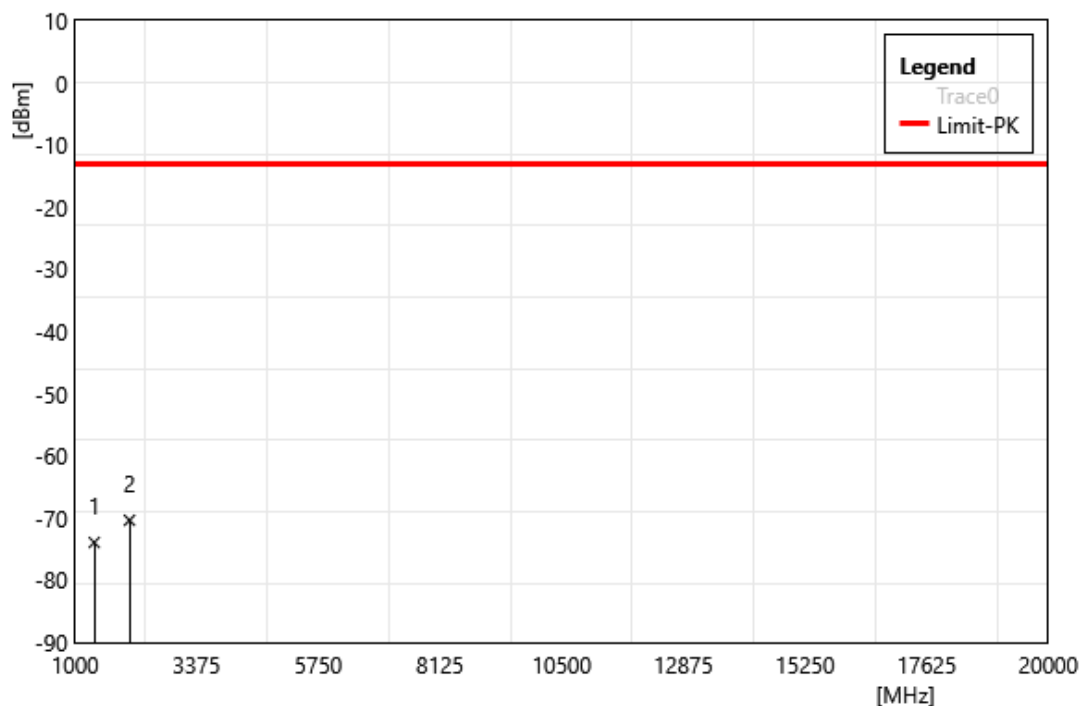
ID	Frequency MHz	Reading dBm	Correct Factor dB/m	Result dBm	Limit dBm	Margin dB	Remark
1	3545.00	-64.89	-1.47	-66.36	-13.00	-53.36	PEAK
2	5107.50	-64.50	1.81	-62.69	-13.00	-49.69	PEAK

Test Site:	96603-WG	Standard:	Part 27
Test Mode:	n70 SA 15k QPSK BW:15M		
	1702.5 MHz		
Polarization:	Vertical		
Remark:			



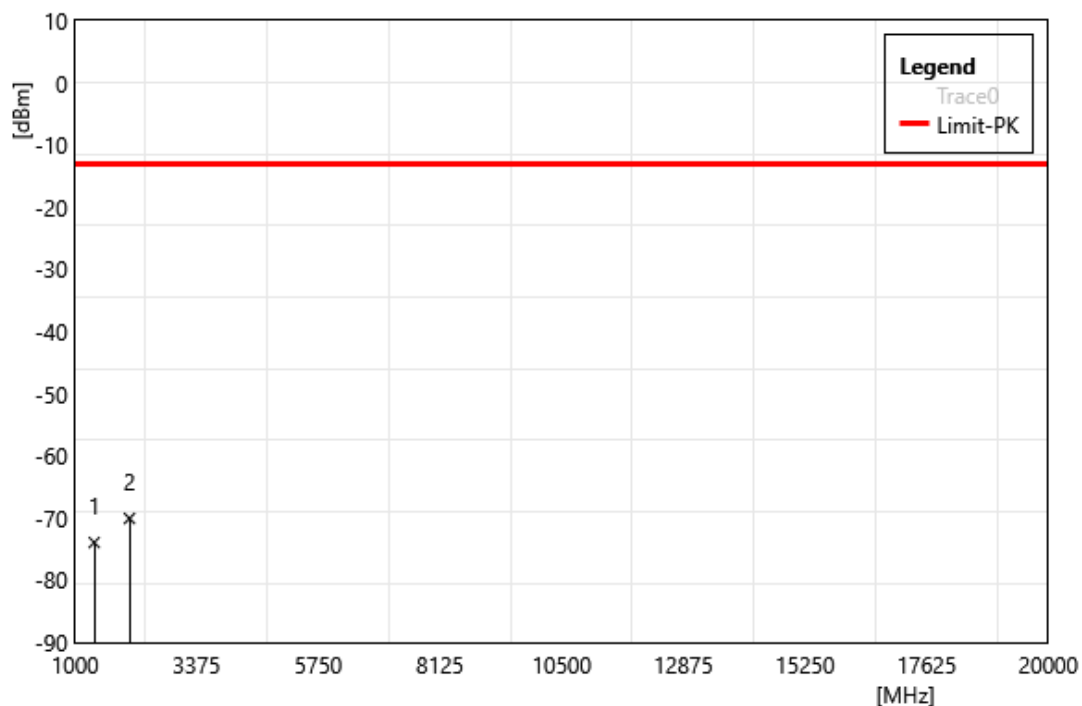
ID	Frequency MHz	Reading dBm	Correct Factor dB/m	Result dBm	Limit dBm	Margin dB	Remark
1	3405.00	-65.34	-2.34	-67.68	-13.00	-54.68	PEAK
2	5107.50	-64.89	1.81	-63.08	-13.00	-50.08	PEAK

Test Site:	96603-WG	Standard:	Part 27
Test Mode:	n71 SA 15k QPSK BW:20M		
	688 MHz		
Polarization:	Horizontal		
Remark:			



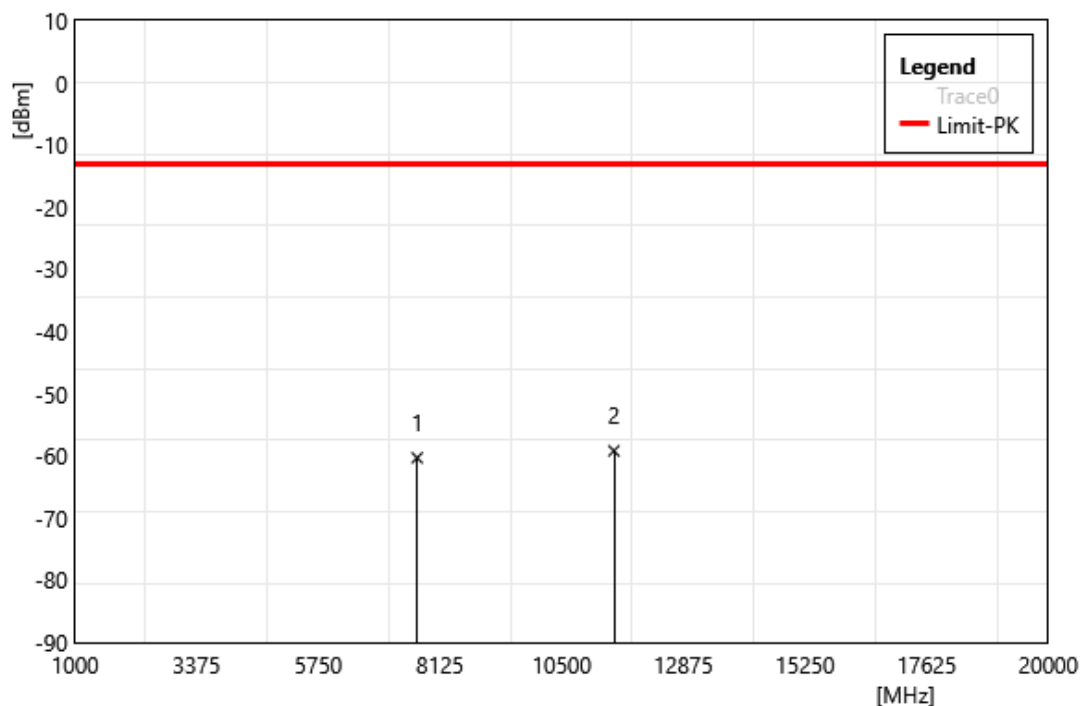
ID	Frequency MHz	Reading dBm	Correct Factor dB/m	Result dBm	Limit dBm	Margin dB	Remark
1	1376.00	-66.57	-7.36	-73.93	-13.00	-60.93	PEAK
2	2064.00	-64.86	-5.50	-70.36	-13.00	-57.36	PEAK

Test Site:	96603-WG	Standard:	Part 27
Test Mode:	n71 SA 15k QPSK BW:20M		
	688 MHz		
Polarization:	Vertical		
Remark:			



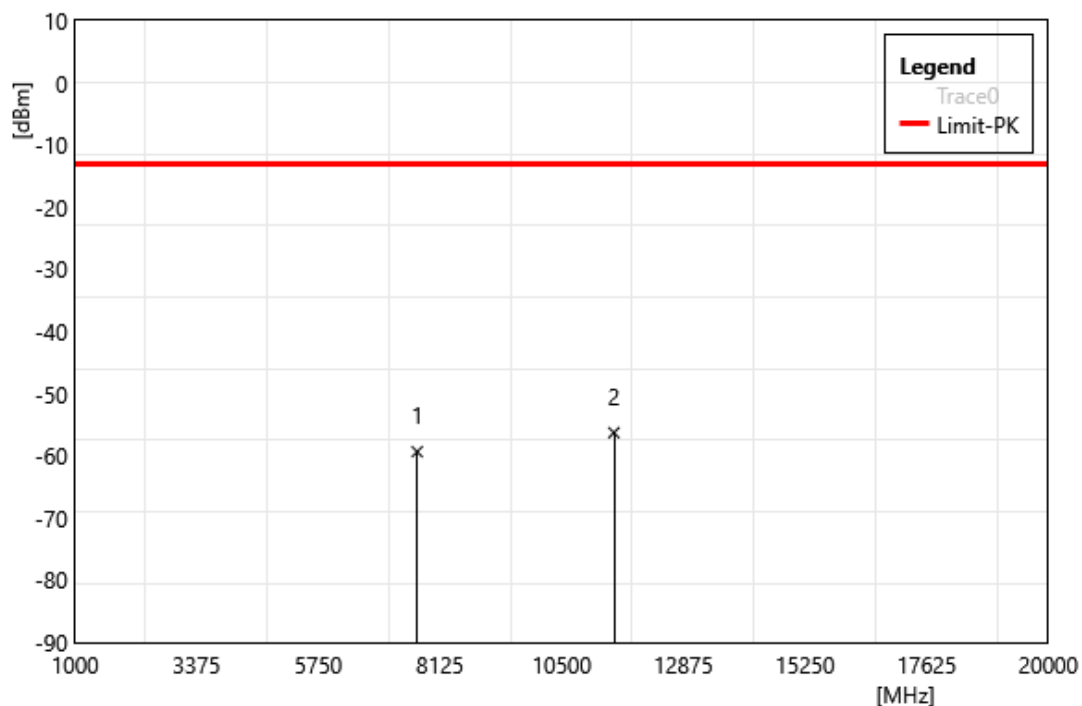
ID	Frequency MHz	Reading dBm	Correct Factor dB/m	Result dBm	Limit dBm	Margin dB	Remark
1	1376.00	-66.57	-7.36	-73.93	-13.00	-60.93	PEAK
2	2064.00	-64.56	-5.50	-70.06	-13.00	-57.06	PEAK

Test Site:	96603-WG	Standard:	Part 27
Test Mode:	n77/78 SA 30k QPSK		
	BW:40M 3840 MHz		
Polarization:	Horizontal		
Remark:			



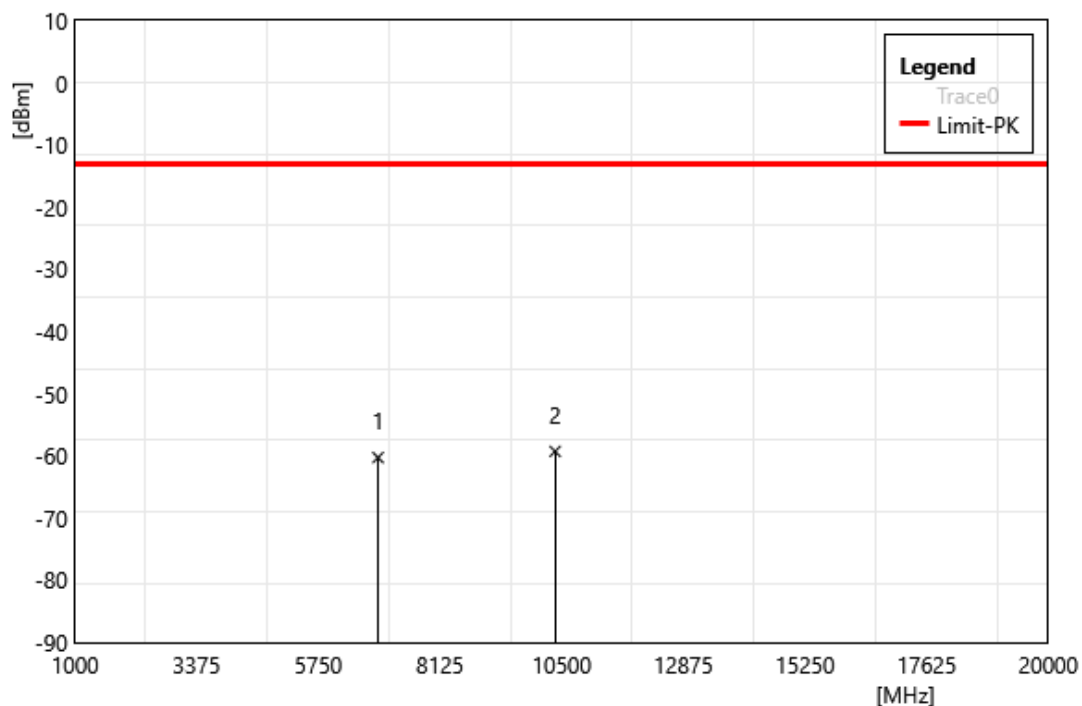
ID	Frequency MHz	Reading dBm	Correct Factor dB/m	Result dBm	Limit dBm	Margin dB	Remark
1	7680.00	-67.13	6.81	-60.32	-13.00	-47.32	PEAK
2	11520.00	-66.77	7.58	-59.19	-13.00	-46.19	PEAK

Test Site:	96603-WG	Standard:	Part 27
Test Mode:	n77/78 SA 30k QPSK		
	BW:40M 3840 MHz		
Polarization:	Vertical		
Remark:			



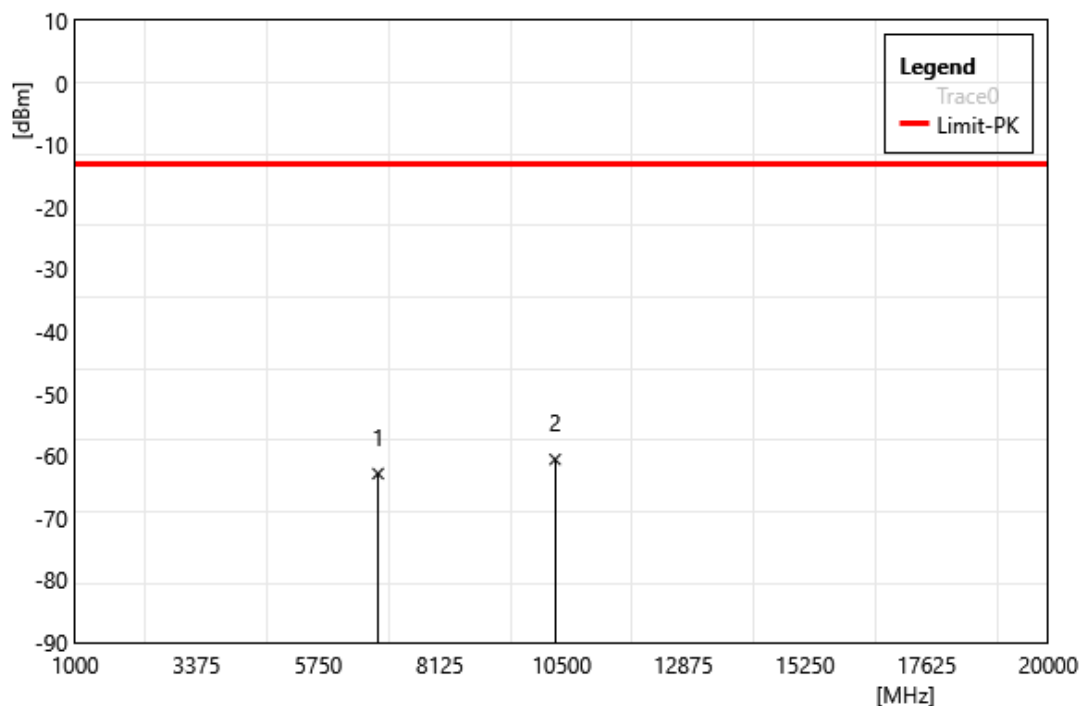
ID	Frequency MHz	Reading dBm	Correct Factor dB/m	Result dBm	Limit dBm	Margin dB	Remark
1	7680.00	-66.13	6.81	-59.32	-13.00	-46.32	PEAK
2	11520.00	-63.85	7.58	-56.27	-13.00	-43.27	PEAK

Test Site:	96603-WG	Standard:	Part 27
Test Mode:	n77/78 SA 30k QPSK		
	BW:15M 3457.5 MHz		
Polarization:	Horizontal		
Remark:	High Power UE		



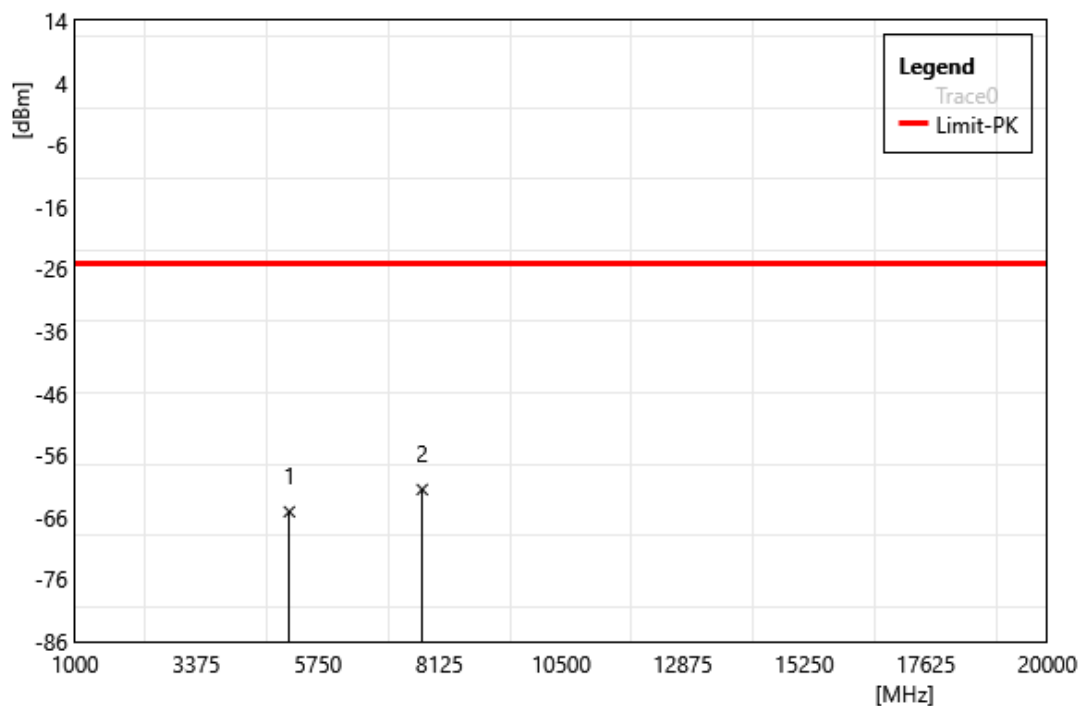
ID	Frequency MHz	Reading dBm	Correct Factor dB/m	Result dBm	Limit dBm	Margin dB	Remark
1	6915.00	-66.54	6.27	-60.27	-13.00	-47.27	PEAK
2	10372.50	-66.01	6.74	-59.27	-13.00	-46.27	PEAK

Test Site:	96603-WG	Standard:	Part 27
Test Mode:	n77/78 SA 30k QPSK		
	BW:15M 3457.5 MHz		
Polarization:	Vertical		
Remark:	High Power UE		



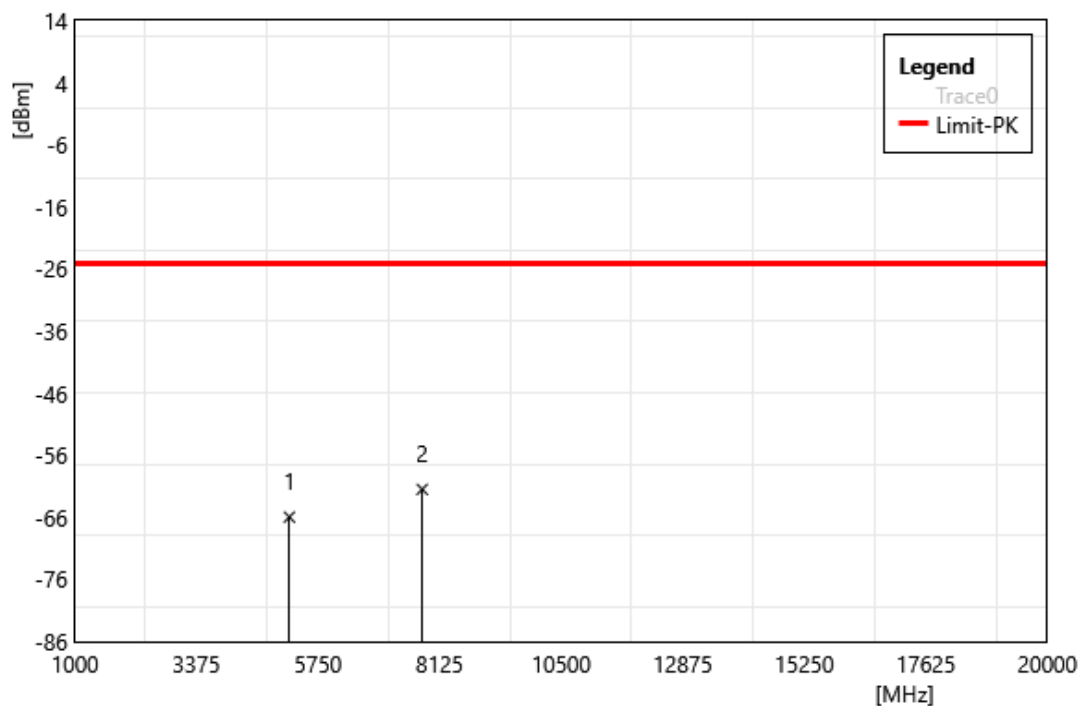
ID	Frequency MHz	Reading dBm	Correct Factor dB/m	Result dBm	Limit dBm	Margin dB	Remark
1	6915.00	-69.13	6.27	-62.86	-13.00	-49.86	PEAK
2	10372.50	-67.31	6.74	-60.57	-13.00	-47.57	PEAK

Test Site:	96603-WG	Standard:	Part 27
Test Mode:	n38_MIMO SA 30k QPSK		
	BW:30M 2595 MHz		
Polarization:	Horizontal		
Remark:			



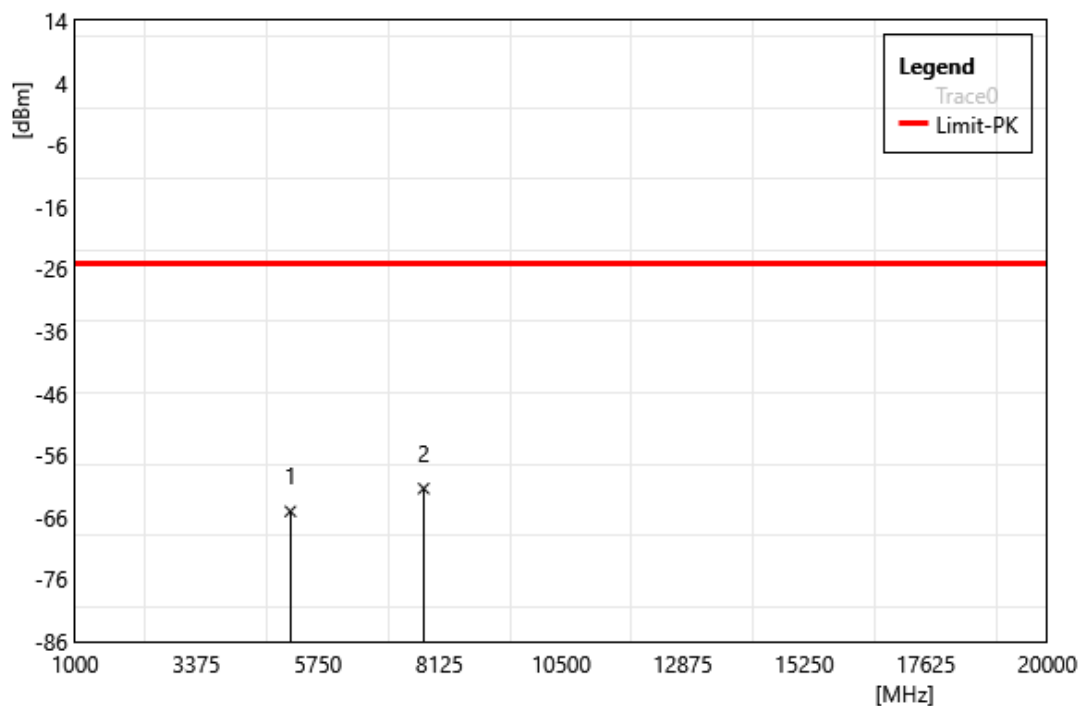
ID	Frequency MHz	Reading dBm	Correct Factor dB/m	Result dBm	Limit dBm	Margin dB	Remark
1	5190.00	-66.88	1.78	-65.10	-25.00	-40.10	PEAK
2	7785.00	-67.97	6.45	-61.52	-25.00	-36.52	PEAK

Test Site:	96603-WG	Standard:	Part 27
Test Mode:	n38_MIMO SA 30k QPSK		
	BW:30M 2595 MHz		
Polarization:	Vertical		
Remark:			



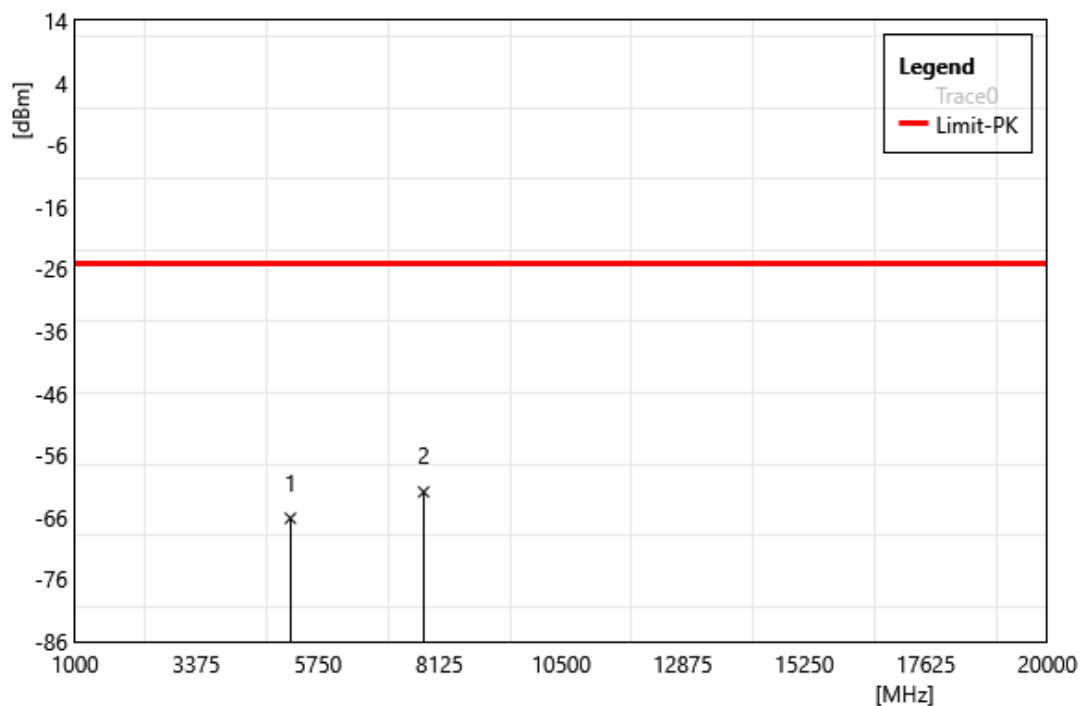
ID	Frequency MHz	Reading dBm	Correct Factor dB/m	Result dBm	Limit dBm	Margin dB	Remark
1	5190.00	-67.74	1.78	-65.96	-25.00	-40.96	PEAK
2	7785.00	-67.94	6.45	-61.49	-25.00	-36.49	PEAK

Test Site:	96603-WG	Standard:	Part 27
Test Mode:	n38_MIMO_HPUE SA 30k QPSK BW:30M 2605 MHz		
Polarization:	Horizontal		
Remark:			



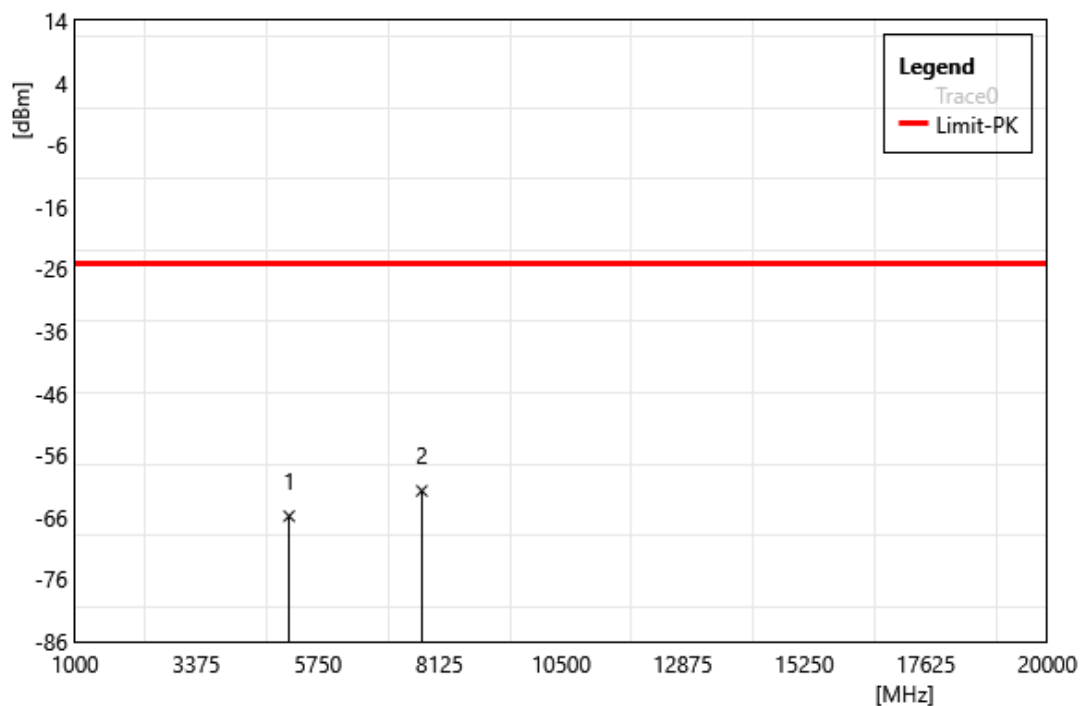
ID	Frequency MHz	Reading dBm	Correct Factor dB/m	Result dBm	Limit dBm	Margin dB	Remark
1	5210.00	-66.75	1.71	-65.04	-25.00	-40.04	PEAK
2	7815.00	-67.65	6.29	-61.36	-25.00	-36.36	PEAK

Test Site:	96603-WG	Standard:	Part 27
Test Mode:	n38_MIMO_HPUE SA 30k QPSK BW:30M 2605 MHz		
Polarization:	Vertical		
Remark:			



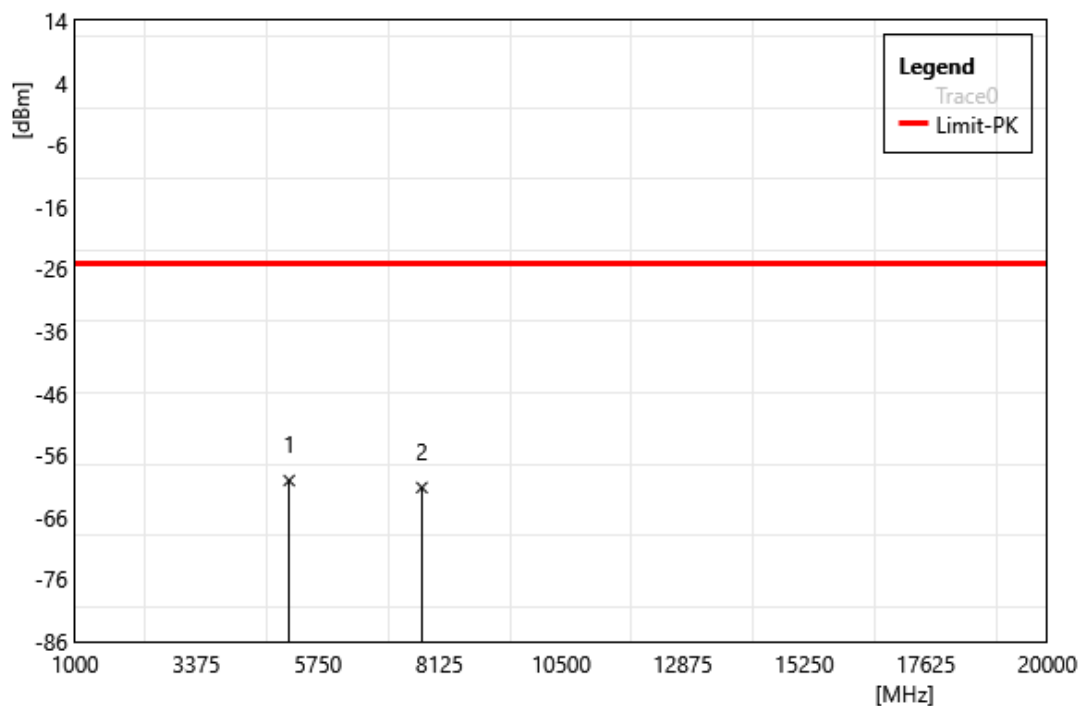
ID	Frequency MHz	Reading dBm	Correct Factor dB/m	Result dBm	Limit dBm	Margin dB	Remark
1	5210.00	-67.85	1.71	-66.14	-25.00	-41.14	PEAK
2	7815.00	-68.19	6.29	-61.90	-25.00	-36.90	PEAK

Test Site:	96603-WG	Standard:	Part 27
Test Mode:	n41_MIMO SA 30k BPSK		
	BW:100M 2592.99 MHz		
Polarization:	Horizontal		
Remark:			



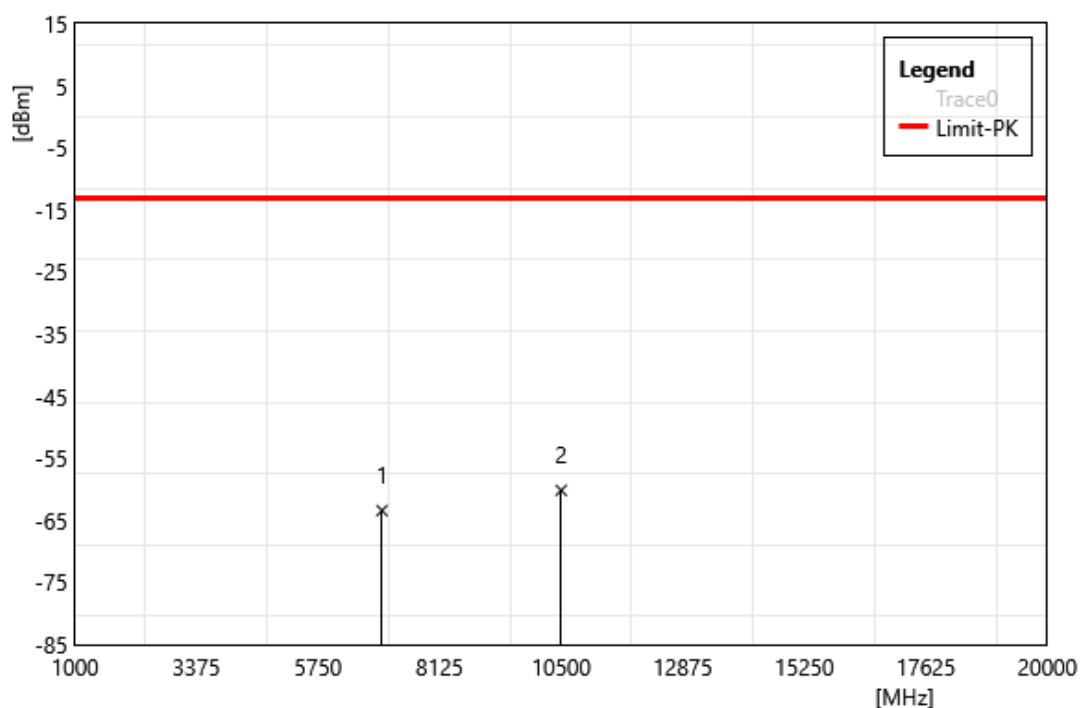
ID	Frequency MHz	Reading dBm	Correct Factor dB/m	Result dBm	Limit dBm	Margin dB	Remark
1	5185.98	-67.62	1.80	-65.82	-25.00	-40.82	PEAK
2	7778.97	-68.22	6.49	-61.73	-25.00	-36.73	PEAK

Test Site:	96603-WG	Standard:	Part 27
Test Mode:	n41_MIMO SA 30k BPSK		
	BW:100M 2592.99 MHz		
Polarization:	Vertical		
Remark:			



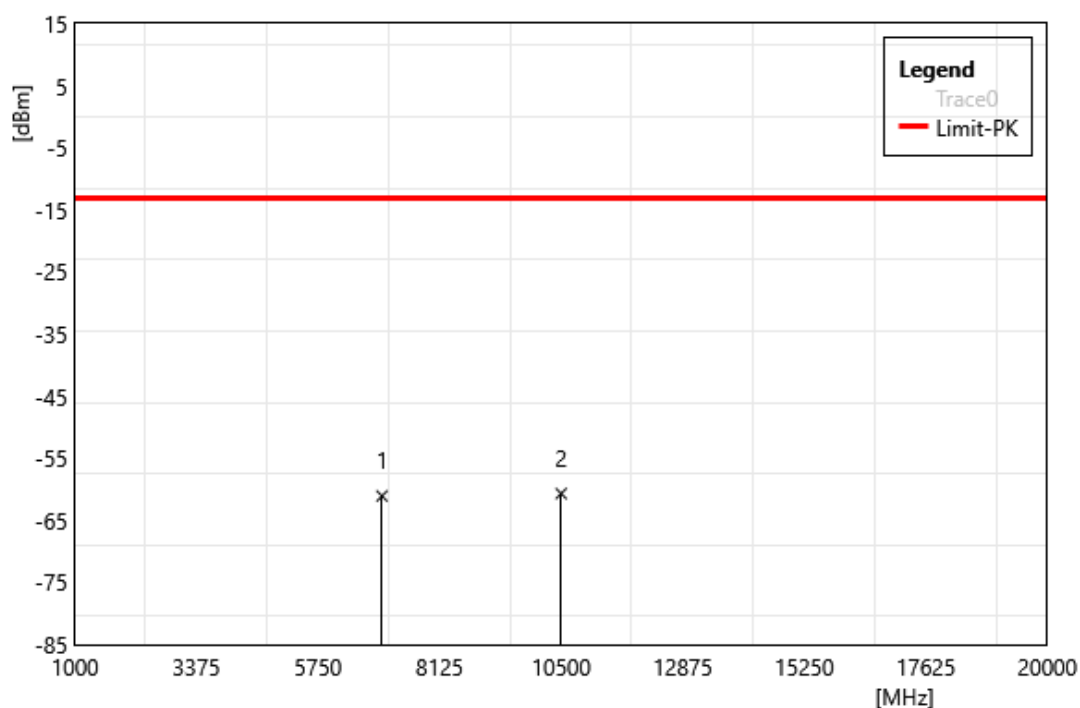
ID	Frequency MHz	Reading dBm	Correct Factor dB/m	Result dBm	Limit dBm	Margin dB	Remark
1	5185.98	-61.87	1.80	-60.07	-25.00	-35.07	PEAK
2	7778.97	-67.70	6.49	-61.21	-25.00	-36.21	PEAK

Test Site:	96603-WG	Standard:	Part 27
Test Mode:	n77/n78_MIMO SA 30k		
	QPSK BW:40M 3500.01		
	MHz		
Polarization:	Horizontal		
Remark:			



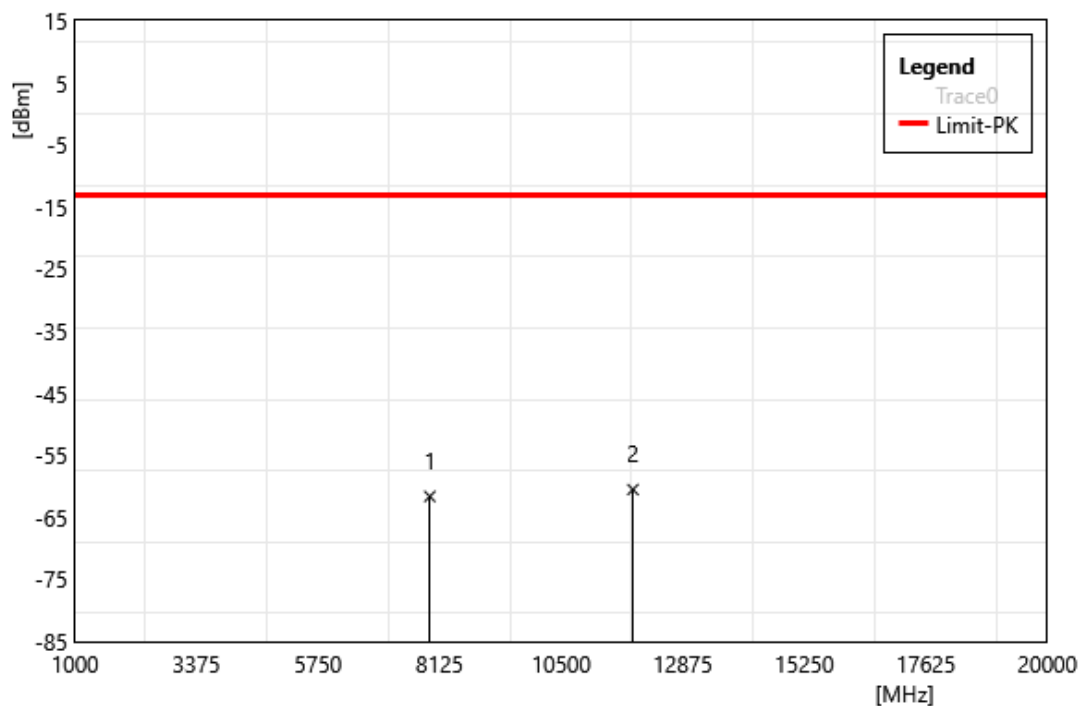
ID	Frequency MHz	Reading dBm	Correct Factor dB/m	Result dBm	Limit dBm	Margin dB	Remark
1	7000.02	-69.95	6.51	-63.44	-13.00	-50.44	PEAK
2	10500.03	-67.04	6.87	-60.17	-13.00	-47.17	PEAK

Test Site:	96603-WG	Standard:	Part 27
Test Mode:	n77/n78_MIMO SA 30k		
	QPSK BW:40M 3500.01		
	MHz		
Polarization:	Vertical		
Remark:			



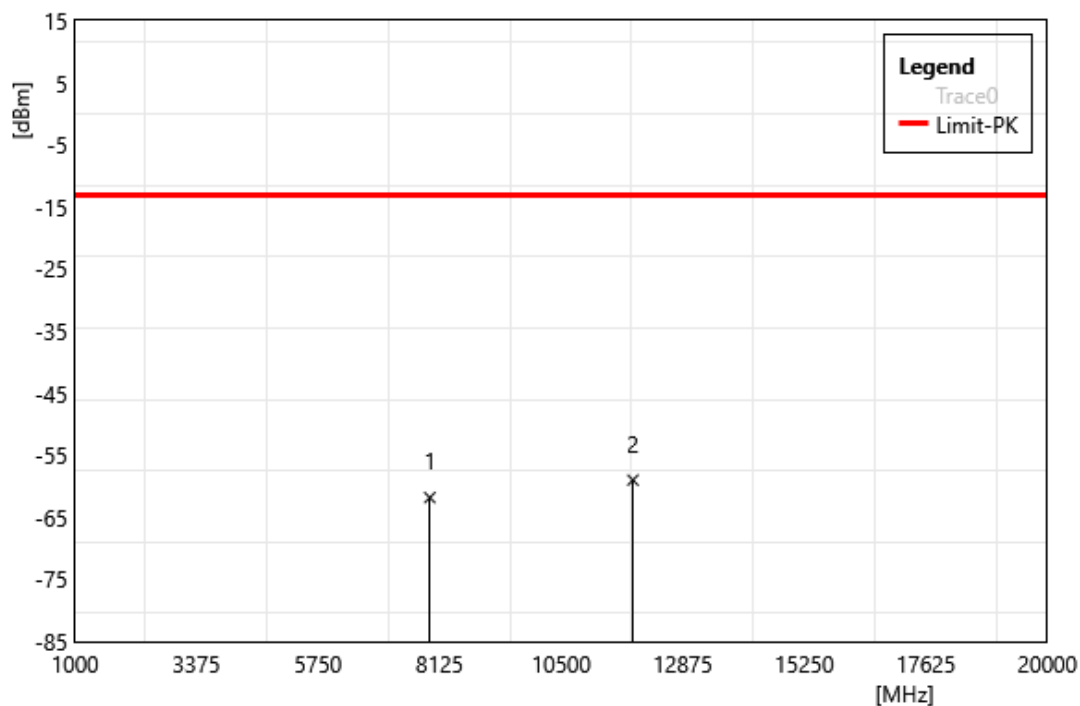
ID	Frequency MHz	Reading dBm	Correct Factor dB/m	Result dBm	Limit dBm	Margin dB	Remark
1	7000.02	-67.58	6.51	-61.07	-13.00	-48.07	PEAK
2	10500.03	-67.56	6.87	-60.69	-13.00	-47.69	PEAK

Test Site:	96603-WG	Standard:	Part 27
Test Mode:	n77/n78_MIMO SA 30k QPSK BW:25M 3967.5 MHz		
Polarization:	Horizontal		
Remark:			



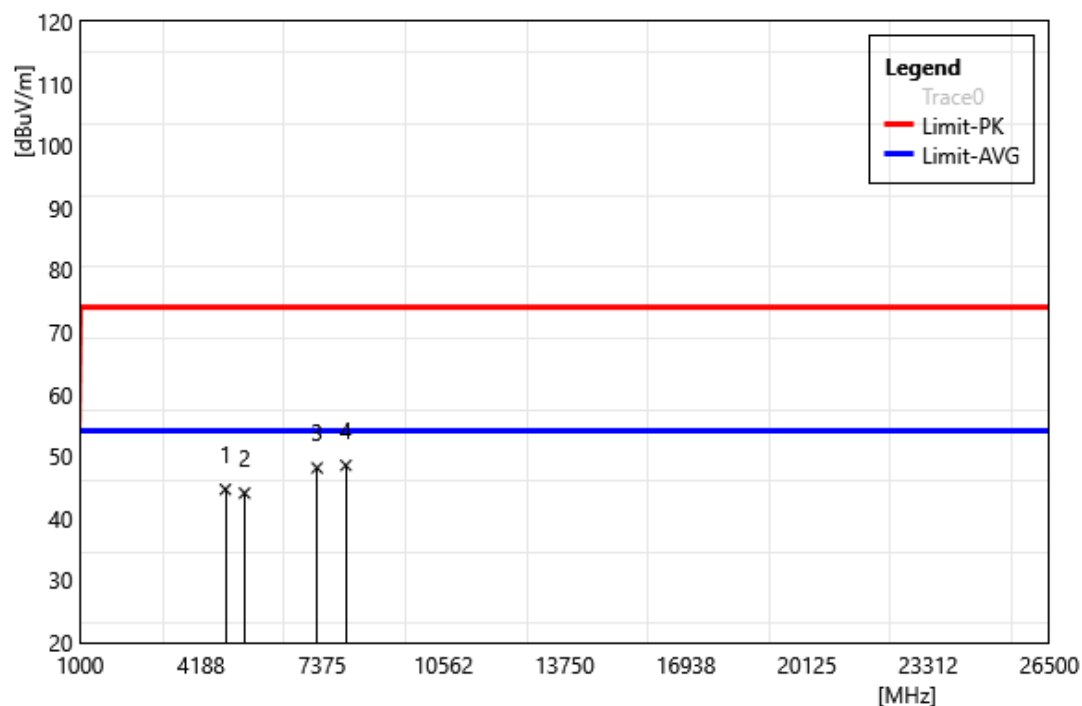
ID	Frequency MHz	Reading dBm	Correct Factor dB/m	Result dBm	Limit dBm	Margin dB	Remark
1	7935.00	-67.86	6.23	-61.63	-13.00	-48.63	PEAK
2	11902.50	-68.10	7.58	-60.52	-13.00	-47.52	PEAK

Test Site:	96603-WG	Standard:	Part 27
Test Mode:	n77/n78_MIMO SA 30k QPSK BW:25M 3967.5 MHz		
Polarization:	Vertical		
Remark:			



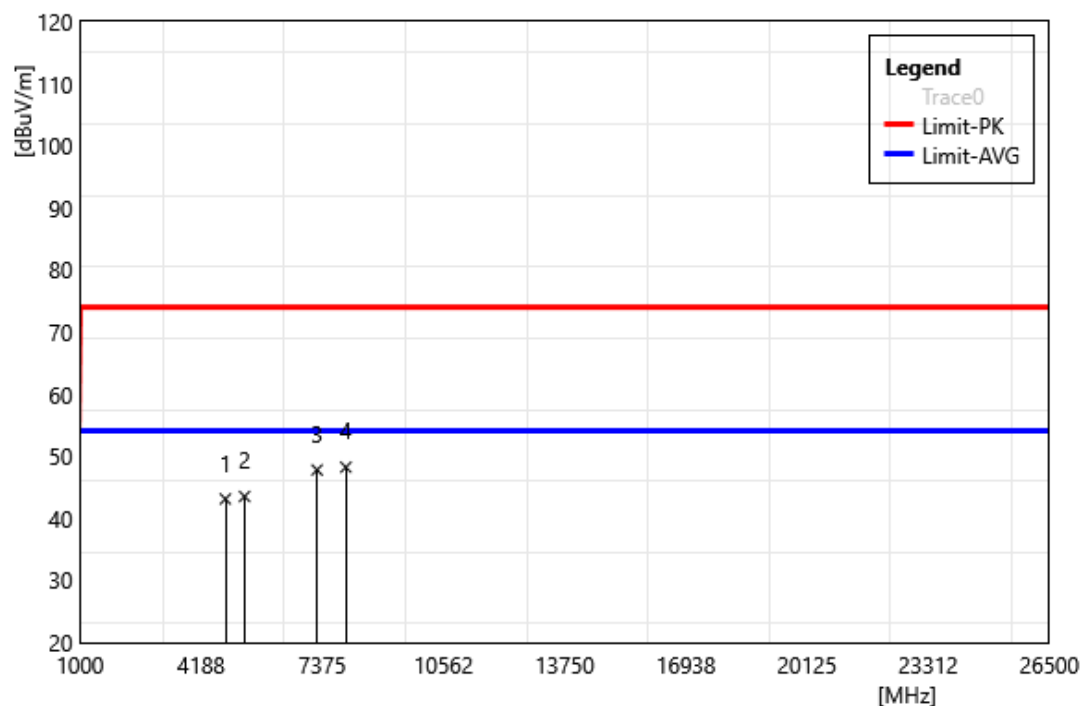
ID	Frequency MHz	Reading dBm	Correct Factor dB/m	Result dBm	Limit dBm	Margin dB	Remark
1	7935.00	-68.04	6.23	-61.81	-13.00	-48.81	PEAK
2	11902.50	-66.58	7.58	-59.00	-13.00	-46.00	PEAK

Test Site:	96603-WG	Standard:	Part 22/24/27/90S/90R
Test Mode:	Co-location		
Polarization:	Horizontal		
Remark:	2.4G b mode 2412 + NR n41_HPUE 2664.99 MHz		



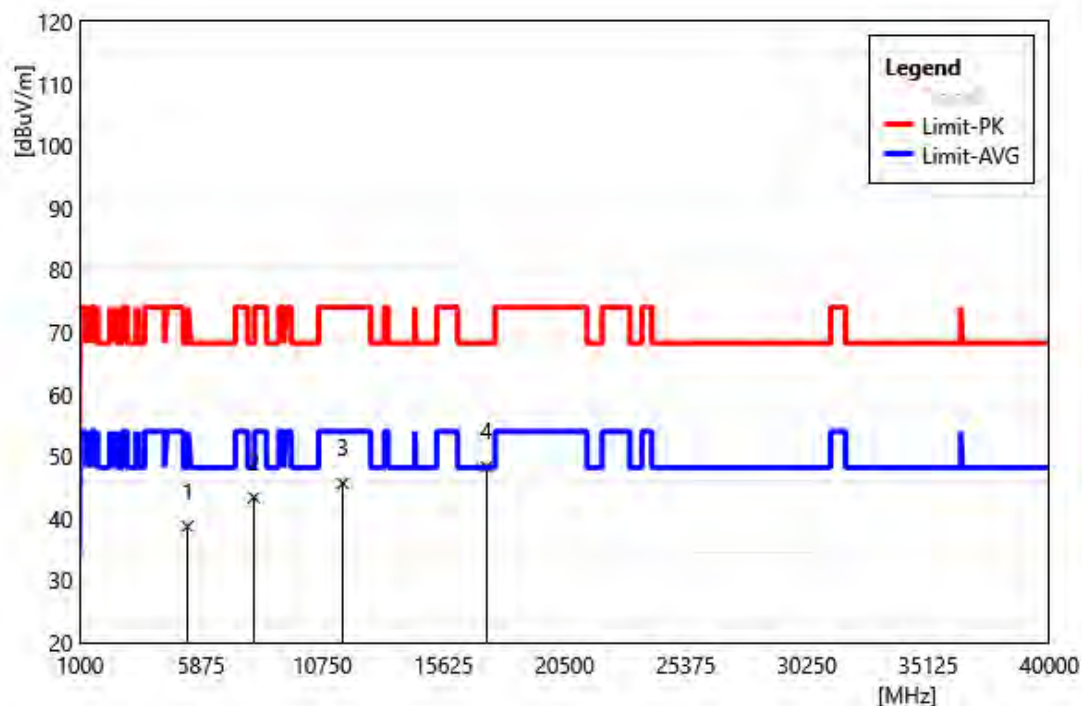
ID	Frequency MHz	Reading dBuV	Correct Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Remark
1	4824.00	43.08	1.58	44.66	74.00	-29.34	PEAK
2	5329.98	42.29	1.78	44.07	74.00	-29.93	PEAK
3	7236.00	41.58	6.55	48.13	74.00	-25.87	PEAK
4	7994.97	41.53	7.01	48.54	74.00	-25.46	PEAK

Test Site:	96603-WG	Standard:	Part 22/24/27/90S/90R
Test Mode:	Co-location		
Polarization:	Vertical		
Remark:	2.4G b mode 2412 + NR n41_HPUE 2664.99 MHz		



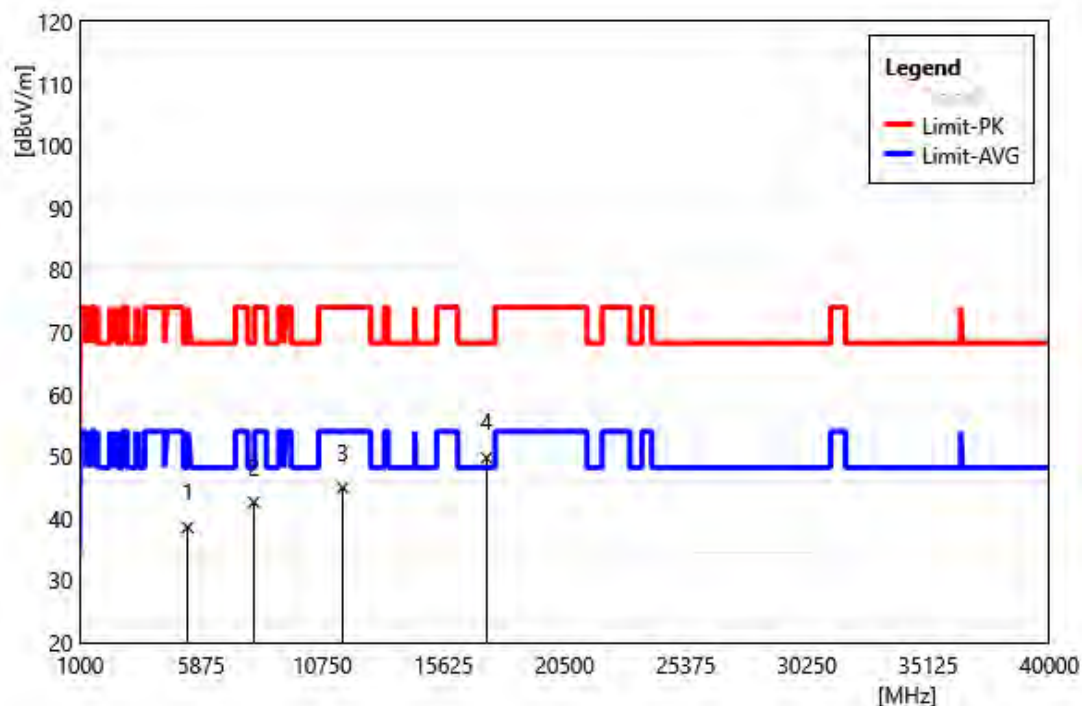
ID	Frequency MHz	Reading dBuV	Correct Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Remark
1	4824.00	41.54	1.58	43.12	74.00	-30.88	PEAK
2	5329.98	41.73	1.78	43.51	74.00	-30.49	PEAK
3	7236.00	41.25	6.55	47.80	74.00	-26.20	PEAK
4	7994.97	41.23	7.01	48.24	74.00	-25.76	PEAK

Test Site:	96603-WG	Standard:	Part 22/24/27/90S/90R
Test Mode:	Co-location		
Polarization:	Horizontal		
Remark:	5G a mode 5785 + NR n41_HPUE 2664.99 MHz		



ID	Frequency MHz	Reading dBuV	Correct Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Remark
1	5329.98	36.91	1.78	38.69	68.20	-29.51	PEAK
2	7994.97	36.34	7.01	43.35	68.20	-24.85	PEAK
3	11570.00	37.97	7.68	45.65	74.00	-28.35	PEAK
4	17355.00	40.78	7.48	48.26	68.20	-19.94	PEAK

Test Site:	96603-WG	Standard:	Part 22/24/27/90S/90R
Test Mode:	Co-location		
Polarization:	Vertical		
Remark:	5G a mode 5785 + NR n41_HPUE 2664.99 MHz		



ID	Frequency MHz	Reading dBuV	Correct Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Remark
1	5329.98	36.76	1.78	38.54	68.20	-29.66	PEAK
2	7994.97	35.57	7.01	42.58	68.20	-25.62	PEAK
3	11570.00	37.24	7.68	44.92	74.00	-29.08	PEAK
4	17355.00	42.26	7.48	49.74	68.20	-18.46	PEAK

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