

RADIO TEST REPORT

Report ID:

REP119210

Project number:

PRJ0084878

Type of assessment:

Final product testing, Limited Assessment

Applicant:

BLINQ Networks Inc.

Product:

5G Enterprise Small cell with Wi-Fi

Model:

PWRF-400

Model variants:

PCRF-400, PC-400, PCW-400

FCC ID:

ROR2003

Specifications:

◆ FCC 47 CFR Part 96

Date of issue: February 17, 2026

Tarek Elkholy, EMC/RF Engineer

Tested by



Signature

Alvin Liu, EMC/RF Specialist

Reviewed by



Signature

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ANAB File Number: AT-3195 (Ottawa); AT-3193 (Pointe-Claire); AT-3194 (Cambridge)

Lab locations

Company name	Nemko Canada Inc.		
Facilities	<i>Ottawa site:</i> 303 River Road Ottawa, Ontario Canada K1V 1H2	<i>Montréal site:</i> 292 Labrosse Avenue Pointe-Claire, Québec Canada H9R 5L8	<i>Cambridge site:</i> 1-130 Saltsman Drive Cambridge, Ontario Canada N3E 0B2
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	CA2040	CA2041	CA0101
Test site identifier			
Website	www.nemko.com		

Limits of responsibility

Note that the results contained in this report relate only to the items tested and were obtained in the period between the date of initial receipt of samples and the date of issue of the report.

This test report has been completed in accordance with the requirements of ISO/IEC 17025. All results contained in this report are within Nemko Canada's ISO/IEC 17025 accreditation.

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Table of Contents

Table of Contents	3
Section 1 Report summary	4
1.1 Test specifications	4
1.2 Test methods	4
1.3 Exclusions	4
1.4 Statement of compliance	4
1.5 Test report revision history	4
Section 2 Engineering considerations	5
2.1 Modifications incorporated in the EUT for compliance	5
2.2 Technical judgment	5
2.3 Model variant declaration	5
2.4 Deviations from laboratory tests procedures	5
Section 3 Test conditions	6
3.1 Atmospheric conditions	6
3.2 Power supply range	6
Section 4 Information provided by the applicant	7
4.1 Disclaimer	7
4.2 Applicant/Manufacturer	7
4.3 EUT information	7
4.4 Technical information	8
4.5 EUT setup details	9
Section 5 Summary of test results	11
5.1 Testing period	11
5.2 Sample information	11
5.3 FCC test requirements results	11
Section 6 Test equipment	12
6.1 Test equipment list	12
Section 7 Testing data	13
7.1 Power limits	13
7.2 Emissions limits	22

Section 1 Report summary

1.1 Test specifications

FCC 47 CFR Part 2	Frequency Allocations and Radio Treaty Matters; General Rules and Regulations
FCC 47 CFR Part 96	Citizens Broadband Radio Service

1.2 Test methods

ANSI C63.26-2015	American National Standard for Compliance Testing of Transmitters Used in Licensed Radio Services
662911 D02 MIMO with Cross Polarized Antenna v01 (October 25, 2011)	Emissions testing of transmitters with multiple outputs in the same band (MIMO) with Cross Polarized Antenna
FCC 47 CFR Part 2, Subpart J	Equipment authorization procedures

1.3 Exclusions

As per applicant request, this is a limited assessment, based on reusing the conducted test data measured during the full assessment (KSCR2407001449AT/KSCR240700144901) of the indoor version of the base station (PCW-400i, FCC ID: ROR2002).

During this assessment spot checking of the radiated cabinet spurious emissions was performed based on the worst-case scenario identified during the full assessment (KSCR2407001449AT/ KSCR240700144901), also power measurements were performed to ensure compliance after using the higher gain antenna.

1.4 Statement of compliance

In the configuration tested, the EUT was found compliant.

Testing was performed against all relevant requirements of the test standard except as noted in section 1.3 above. Results obtained indicate that the product under test complies in full with the requirements tested. The test results relate only to the items tested.

See "Summary of test results" for full details.

1.5 Test report revision history

Table 1.5-1: Test report revision history

Revision #	Date of issue	Details of changes made to test report
REP119210	February 17, 2026	Original report issued

Section 2 Engineering considerations

2.1 Modifications incorporated in the EUT for compliance

There were no modifications performed to the EUT during this assessment.

2.2 Technical judgment

None

2.3 Model variant declaration

As declared by the applicant, the EUT model PWRP-400, outdoor variant, has been chosen to be representative for all other models in the model family. The model family, and the description of the variations, are as follows:

PCR-400	non-Wi-Fi outdoor (detachable antennas)
PC-400	non-Wi-Fi outdoor (integrated antennas)
PCW-400	Wi-Fi outdoor (integrated antennas)
PWRP-400	Wi-Fi outdoor (detachable antennas)

2.4 Deviations from laboratory tests procedures

No deviations were made from laboratory procedures.

Section 3 Test conditions

3.1 Atmospheric conditions

Temperature	15 °C – 35 °C
Relative humidity	20 % – 75 %
Air pressure	86 kPa (860 mbar) – 106 kPa (1060 mbar)

When it is impracticable to carry out tests under these conditions, a note to this effect stating the ambient temperature and relative humidity during the tests shall be recorded and stated.

3.2 Power supply range

The normal test voltage for equipment to be connected to the mains shall be the nominal mains voltage. For the purpose of the present document, the nominal voltage shall be the declared voltage, or any of the declared voltages $\pm 5\%$, for which the equipment was designed.

Section 4 Information provided by the applicant

4.1 Disclaimer

This section contains information provided by the applicant and has been utilized to support the test plan. Inaccurate information provided by the applicant can affect the validity of the results contained within this test report. Nemko accepts no responsibility for the information contained within this section and the impact it may have on the test plan and resulting measurements.

4.2 Applicant/Manufacturer

Applicant name	BLINQ Networks Inc.
Applicant address	140 Renfrew Dr, Suite 200, Markham, ON, L3R 6B3, Canada
Manufacturer name	Same as applicant
Manufacturer address	Same as applicant

4.3 EUT information

Product	5G Enterprise Small cell with Wi-Fi
Model	PWRF-400
Model variant(s)	PCRF-400, PC-400, PCW-400
Serial number	PU40W-A24400008
Power supply requirements	DC: 55 V from external 100–240 V(AC) PoE injector
Product description and theory of operation	The PWRF-400 is a 5G NR small cell with Wi-Fi 7 triband capabilities

4.4 Technical information

Base station type	Category A CBSD																																										
Frequency band	3550 – 3700 MHz																																										
Frequency Min (MHz)	10 MHz bandwidth: 3555 20 MHz bandwidth: 3560.01 30 MHz bandwidth: 3565.02 40 MHz bandwidth: 3570 60 MHz bandwidth: 3580.02 100 MHz bandwidth: 3600																																										
Frequency Max (MHz)	10 MHz bandwidth: 3694.98 20 MHz bandwidth: 3690 30 MHz bandwidth: 3684.99 40 MHz bandwidth: 3679.98 60 MHz bandwidth: 3669.99 100 MHz bandwidth:3649.98																																										
Carrier aggregation configuration	1CC, 2CC, 3CC and 4CC																																										
RF power Max (W), Conducted		mW	dBm																																								
	1CC	157	21.96																																								
	2CC	152.1	21.82																																								
	3CC	131.5	21.19																																								
	4CC	136.5	21.35																																								
Type of modulation	5G NR, 256 QAM																																										
Transmitter spurious, dBµV/m @ 3 m	61.44 dBµV/m RMS value at 10.9 GHz																																										
Antenna information	4 x 4 MIMO operation <u>Internal antenna</u> <table><tr><th>Antenna type</th><th>Manufacturer</th><th>Model number</th><th>Peak gain</th><th>Connector type</th></tr><tr><td>Patch antenna</td><td>BRI Research</td><td>None</td><td>14 dBi</td><td>UFL</td></tr></table> <i>NOTE: Total peak gain = peak gain – cable loss (1 dB)</i> <u>External antenna</u> <table><tr><th>Antenna type</th><th>Manufacturer</th><th>Model number</th><th>Peak gain</th><th>Connector type</th></tr><tr><td>Sector antenna</td><td>KP Antennas</td><td>KP-3DP120S-45-V2</td><td>14.5 dBi</td><td>SMA</td></tr><tr><td>Flat Panel</td><td>KP Antennas</td><td>KP-3DPFP14</td><td>14 dBi</td><td>SMA</td></tr><tr><td>Omni antenna</td><td>KP Antennas</td><td>KP-3QOMNI-8</td><td>8 dBi</td><td>SMA</td></tr><tr><td>Small cell panel</td><td>Alpha Wireless</td><td>AW3924-T0-F</td><td>13 dBi</td><td>SMA</td></tr><tr><td>Omni antenna</td><td>Alpha Wireless</td><td>AW3939-T0-F</td><td>11.5 dBi</td><td>SMA</td></tr></table> <i>NOTE: Total peak gain = peak gain – cable loss (1.5 dB)</i>			Antenna type	Manufacturer	Model number	Peak gain	Connector type	Patch antenna	BRI Research	None	14 dBi	UFL	Antenna type	Manufacturer	Model number	Peak gain	Connector type	Sector antenna	KP Antennas	KP-3DP120S-45-V2	14.5 dBi	SMA	Flat Panel	KP Antennas	KP-3DPFP14	14 dBi	SMA	Omni antenna	KP Antennas	KP-3QOMNI-8	8 dBi	SMA	Small cell panel	Alpha Wireless	AW3924-T0-F	13 dBi	SMA	Omni antenna	Alpha Wireless	AW3939-T0-F	11.5 dBi	SMA
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Omni antenna	Alpha Wireless	AW3939-T0-F	11.5 dBi	SMA																																							

4.5 EUT setup details

4.5.1 Radio exercise details

Operating conditions	See in the table below the power settings utilized during the original assessment (KSCR2407001449AT). During this assessment spot checks, the EUT was powered using the PoE injector, using a laptop loaded with tera term serial interface, the EUT was forced into continuous transmission at the worst-case channel identified during the original assessment (KSCR2407001449AT). The EUT was transmitting from the four antennas simultaneously.
Transmitter state	Continuous transmission

Table 4.5-1: Power settings, 3550 – 3700 MHz

Carrier configuration	Bandwidth (MHz)	Channel		
		Low	Mid	High
1CC	10	17.0	17.0	17.0
	20	19.0	19.0	19.0
	30	21.0	21.0	21.0
	40	22.5	23.0	22.5
	60	22.5	23.0	22.5
	100	23.0	23.0	23.0
2CC	10 + 10	17.0	17.0	17.0
	20 + 20	20.0	20.0	20.0
	30 + 10	21.0	21.0	21.0
	30 + 20	21.0	21.0	21.0
	40 + 20	22.5	23.0	22.5
	40 + 40	22.5	23.0	22.5
3CC	60 + 20	23.0	23.0	23.0
	10 + 10 + 10	17.0	17.0	17.0
	20 + 20 + 20	20.0	20.0	20.0
	40 + 20 + 10	20.0	20.0	20.0
	40 + 30 + 20	23.0	23.0	23.0
4CC	40 + 20 + 20	21.0	21.0	21.0
	20 + 20 + 20 + 20	21.0	21.0	21.0
	40 + 30 + 20 + 10	19.0	19.0	19.0

4.5.2 EUT setup configuration

Table 4.5-2: EUT sub assemblies

Description	Brand name	Model, Part number, Serial number, Revision level
Outdoor PoE injector	Procet	MN: PT-PSE108GBR-OT, SN: PT2441223025, Ver. 10.0

Table 4.5-3: EUT interface ports

Description	Qty.
PoE AC power input	1
RF SMA ports, cellular	4
RF SMA ports, Wi-Fi	6
Ethernet port, power and traffic (base station)	1
PoE Ethernet port (PoE injector)	1
LAN Ethernet port (PoE injector)	1
USB Serial port (test purpose only)	1

Table 4.5-4: Support equipment

Description	Brand name	Model, Part number, Serial number, Revision level
Laptop	Dell	MN: Latitude E6420, DPN: VVF52 A01, SN: 28MCCS1

Table 4.5-5: Inter-connection cables

Cable description	From	To	Length (m)
AC power cable	PoE injector	Mains	2
CAT 7 ethernet cable	Base station	PoE injector	2
USB-serial cable	Base station	laptop	2

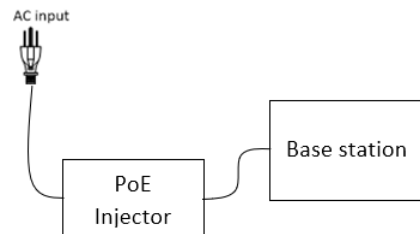


Figure 4.5-1: Radiated testing block diagram

Section 5 Summary of test results

5.1 Testing period

Test start date	October 10, 2025	Test end date	January 9, 2026
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5.2 Sample information

Receipt date	May 7, 2025	Nemko sample ID number(s)	PRJ00792300001
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5.3 FCC test requirements results

Table 5.3-1: FCC requirements results

Part	Test description	Verdict
§96.41 (e)	3.5 GHz Emissions and Interference Limits	Pass
§96.41 (b)	Power limits	Pass

Notes: Only performed tests are listed in the table.

Section 6 Test equipment

6.1 Test equipment list

Table 6.1-1: Equipment list

Equipment	Manufacturer	Model no.	Asset no.	Cal cycle	Next cal.
Receiver/spectrum analyzer	Rohde & Schwarz	ESR26	FA002969	1 year	May 28, 2026
Spectrum analyzer	Rohde & Schwarz	FSW43	FA002971	1 year	November 24, 2026
3 m EMI test chamber	TDK	SAC-3	FA003012	1 year	March 9, 2026
Antenna mast	SUNAR	TLT2	FA003007	—	NCR
Bilog antenna (30–2000 MHz)	SUNAR	JB3	FA002108	1 year	April 8, 2026
Horn antenna (1–18 GHz)	EMCO	3115	FA000649	1 year	April 16, 2026
Preamp (1–18 GHz)	ETS Lindgren	124334	FA002956	1 year	April 11, 2026
Horn antenna (1–18 GHz)	ETS Lindgren	3117	FA002911	1 year	June 2, 2026
Horn antenna (18–40 GHz)	EMCO	3116B	FA002948	1 year	April 4, 2027
Preamp 18-40 GHz	None	PA1840	FA003323	1 year	April 11, 2026
Notch filter (2.4-2.4835 GHz)	Microwave circuits	N0324413	FA003027	—	NCR
Notch filter (5150 - 5350 MHz)	Microwave circuits	N0452501	FA003030	—	NCR
Notch filter (5470-5725 MHz)	Microwave circuits	N0555983	FA003028	—	NCR
Notch filter (5725-5850 MHz)	Microwave circuits	N0257881	FA001921	—	NCR
50 Ω coax cable	Huber + Suhner	None	FA003402	1 year	Aug 6, 2026
50 Ω coax cable	Huber + Suhner	None	FA003047	1 year	Aug 6, 2026
50 Ω coax cable	Huber + Suhner	None	FA003051	1 year	Aug 6, 2026
50 Ω coax cable	Huber + Suhner	None	FA003056	1 year	Aug 6, 2026

Note: NCR - no calibration required

All equipment related to the contribution of measurement has been included in this list. Such items include, but are not limited to, cables, attenuators, directional couplers, and pre-amps.

Table 6.1-2: Automation software details

Test description	Manufacturer of Software	Details
Radio/EMC test software	Rohde & Schwarz	EMC32, Software for EMC Measurements, Version 10.60.00

Table 6.1-3: Measurement uncertainty calculations based on equipment list

Measurement	Measurement uncertainty, ±dB
Radiated spurious emissions (30 MHz to 1 GHz)	4.14
Radiated spurious emissions (1 GHz to 6 GHz)	4.74
Radiated spurious emissions (6 GHz to 18 GHz)	5.33
Radiated spurious emissions (18 GHz to 40 GHz)	4.82
RF Output power on antenna port (30 MHz – 18 GHz)	1.52

Notes: UKAS Lab 34, TIA-603 and ETSI TR 100 028-1&2 have been used as guidance for measurement uncertainty reasonable estimations with regards to previous experience and validation of data. Nemko Canada Inc. follows these test methods in order to satisfy ISO/IEC 17025 requirements for estimation of uncertainty of measurement for wireless products. Measurement uncertainty calculations assume a coverage factor of K = 2 with 95% certainty.

Section 7 Testing data

7.1 Power limits

7.1.1 References, definitions and limits

FCC §96.41

- (b) **Power limits.** Unless otherwise specified in this section, the maximum effective isotropic radiated power (EIRP) and maximum Power Spectral Density (PSD) of any CBSD and End User Device must comply with the limits shown in the table below
- (c) **Power management.** CBSDs and End User Devices shall limit their operating power to the minimum necessary for successful operations.
- (1) CBSDs must support transmit power control capability and the capability to limit their maximum EIRP and the maximum EIRP of associated End User Devices in response to instructions from an SAS.

Table 7.1-1: Power limits

Device	Maximum EIRP (dBm/10 MHz)	Maximum PSD (dBm/MHz)
End User Device	23	–
Category A CBSD	30	20
Category B CBSD	47	37

7.1.2 Test summary

Verdict	Pass		
Test date	January 8, 2026	Temperature	24 °C
Tested by	Tarek Elkholy	Air pressure	982 mbar
Test location	Cambridge	Relative humidity	42 %

7.1.3 Observations, settings and special notes

- The transmitted data from all chains are uncorrelated.
- The power values of non-worst case scenarios in the tables below are based on the measured conducted power values during the original assessment (KSCR2407001449AT) and the outdoor variant antenna gain peak value.

7.1.4 Test data

Table 7.1-2: Output power measurement results, 3550 – 3700 MHz

Bandwidth configuration	Frequency, MHz	Port	Conducted power, dBm/10 MHz	Antenna peak gain, dBi	EIRP, dBm/10 MHz	EIRP Limit, dBm/10 MHz	Margin, dB
1CC, 10 MHz	3555	1	16.74	13.00	29.74	30.00	0.26
		2	16.47	13.00	29.47	30.00	0.53
		3	16.94	13.00	29.94	30.00	0.06
		4	16.22	13.00	29.22	30.00	0.78
	3624.99	1	16.30	13.00	29.30	30.00	0.70
		2	16.57	13.00	29.57	30.00	0.43
		3	16.22	13.00	29.22	30.00	0.78
		4	16.00	13.00	29.00	30.00	1.00
	3694.98	1	16.12	13.00	29.12	30.00	0.88
		2	16.64	13.00	29.64	30.00	0.36
		3	15.80	13.00	28.80	30.00	1.20
		4	15.89	13.00	28.89	30.00	1.11
1CC, 20 MHz	3560.01	1	15.80	13.00	28.80	30.00	1.20
		2	16.14	13.00	29.14	30.00	0.86
		3	16.04	13.00	29.04	30.00	0.96
		4	15.42	13.00	28.42	30.00	1.58
	3624.99	1	15.38	13.00	28.38	30.00	1.62
		2	16.03	13.00	29.03	30.00	0.97
		3	15.80	13.00	28.80	30.00	1.20
		4	15.40	13.00	28.40	30.00	1.60
	3689.97	1	15.40	13.00	28.40	30.00	1.60
		2	15.66	13.00	28.66	30.00	1.34
		3	15.34	13.00	28.34	30.00	1.66
		4	15.14	13.00	28.14	30.00	1.86

Test data, continued

1CC, 30 MHz	3565.02	1	15.42	13.00	28.42	30.00	1.58
		2	15.28	13.00	28.28	30.00	1.72
		3	15.14	13.00	28.14	30.00	1.86
		4	15.13	13.00	28.13	30.00	1.87
	3624.99	1	15.70	13.00	28.70	30.00	1.30
		2	15.61	13.00	28.61	30.00	1.39
		3	15.56	13.00	28.56	30.00	1.44
		4	15.83	13.00	28.83	30.00	1.17
	3684.99	1	16.89	13.00	29.89	30.00	0.11
		2	16.73	13.00	29.73	30.00	0.27
		3	16.68	13.00	29.68	30.00	0.32
		4	16.76	13.00	29.76	30.00	0.24
1CC, 40 MHz	3570	1	14.78	13.00	27.78	30.00	2.22
		2	15.18	13.00	28.18	30.00	1.82
		3	15.18	13.00	28.18	30.00	1.82
		4	14.46	13.00	27.46	30.00	2.54
	3624.99	1	15.44	13.00	28.44	30.00	1.56
		2	15.82	13.00	28.82	30.00	1.18
		3	15.57	13.00	28.57	30.00	1.43
		4	15.25	13.00	28.25	30.00	1.75
	3679.98	1	13.85	13.00	26.85	30.00	3.15
		2	14.60	13.00	27.60	30.00	2.40
		3	13.95	13.00	26.95	30.00	3.05
		4	13.92	13.00	26.92	30.00	3.08
1CC, 60 MHz	3579.99	1	12.58	13.00	25.58	30.00	4.42
		2	13.15	13.00	26.15	30.00	3.85
		3	12.96	13.00	25.96	30.00	4.04
		4	12.52	13.00	25.52	30.00	4.48
	3624.99	1	13.48	13.00	26.48	30.00	3.52
		2	14.22	13.00	27.22	30.00	2.78
		3	13.65	13.00	26.65	30.00	3.35
		4	13.58	13.00	26.58	30.00	3.42
	3669.96	1	12.24	13.00	25.24	30.00	4.76
		2	12.77	13.00	25.77	30.00	4.23
		3	12.17	13.00	25.17	30.00	4.83
		4	12.00	13.00	25.00	30.00	5.00
1CC, 100 MHz	3600	1	11.31	13.00	24.31	30.00	5.69
		2	11.54	13.00	24.54	30.00	5.46
		3	11.59	13.00	24.59	30.00	5.41
		4	10.99	13.00	23.99	30.00	6.01

Test data, continued

1CC, 100 MHz	3624.99	1	11.55	13.00	24.55	30.00	5.45
		2	12.08	13.00	25.08	30.00	4.92
		3	11.55	13.00	24.55	30.00	5.45
		4	11.26	13.00	24.26	30.00	5.74
	3649.98	1	11.11	13.00	24.11	30.00	5.89
		2	11.73	13.00	24.73	30.00	5.27
		3	11.46	13.00	24.46	30.00	5.54
		4	11.07	13.00	24.07	30.00	5.93

Bandwidth configuration	Frequency, MHz	Port	Conducted power, 1 st carrier, dBm/10 MHz	Conducted power, 2 nd carrier, dBm/10 MHz	Total conducted power, dBm/10 MHz	Antenna peak gain, dBi	EIRP, dBm/10 MHz	EIRP Limit, dBm/10 MHz	Margin, dB
2CC, 10 + 10 MHz	3555 + 3564.99	1	13.32	13.20	16.27	13.00	29.27	30.00	0.73
		2	13.72	13.51	16.63	13.00	29.63	30.00	0.37
		3	12.81	12.64	15.74	13.00	28.74	30.00	1.26
		4	13.01	12.83	15.93	13.00	28.93	30.00	1.07
	3619.98 + 3629.97	1	12.99	13.00	16.01	13.00	29.01	30.00	0.99
		2	13.62	13.63	16.64	13.00	29.64	30.00	0.36
		3	13.05	13.00	16.04	13.00	29.04	30.00	0.96
		4	13.03	12.99	16.02	13.00	29.02	30.00	0.98
	3684.99 + 3694.98	1	12.83	12.82	15.84	13.00	28.84	30.00	1.16
		2	13.11	13.11	16.12	13.00	29.12	30.00	0.88
		3	12.91	13.03	15.98	13.00	28.98	30.00	1.02
		4	12.67	12.78	15.74	13.00	28.74	30.00	1.26
2CC, 20 + 20 MHz	3559.98 + 3579.96	1	12.89	12.49	15.70	13.00	28.70	30.00	1.30
		2	13.30	12.83	16.08	13.00	29.08	30.00	0.92
		3	12.51	12.12	15.33	13.00	28.33	30.00	1.67
		4	12.74	12.35	15.56	13.00	28.56	30.00	1.44
	3615 + 3634.98	1	13.45	13.44	16.46	13.00	29.46	30.00	0.54
		2	13.93	13.90	16.93	13.00	29.93	30.00	0.07
		3	13.51	13.58	16.56	13.00	29.56	30.00	0.44
		4	13.35	13.42	16.40	13.00	29.40	30.00	0.60
	3670.02 + 3690	1	12.14	12.29	15.23	13.00	28.23	30.00	1.77
		2	12.41	12.63	15.53	13.00	28.53	30.00	1.47
		3	11.78	12.07	14.94	13.00	27.94	30.00	2.06
		4	11.82	12.12	14.98	13.00	27.98	30.00	2.02

Test data, continued

2CC, 30 + 10 MHz	3565.02 + 3584.73	1	14.06	13.08	16.61	13.00	29.61	30.00	0.39
		2	13.96	12.97	16.50	13.00	29.50	30.00	0.50
		3	13.82	12.85	16.37	13.00	29.37	30.00	0.63
		4	13.75	12.78	16.30	13.00	29.30	30.00	0.70
	3620.13 + 3639.84	1	14.18	13.22	16.74	13.00	29.74	30.00	0.26
		2	14.14	13.69	16.93	13.00	29.93	30.00	0.07
		3	14.11	12.97	16.59	13.00	29.59	30.00	0.41
		4	14.06	12.92	16.54	13.00	29.54	30.00	0.46
	3675.27 + 3694.98	1	13.63	12.87	16.28	13.00	29.28	30.00	0.72
		2	13.86	12.98	16.45	13.00	29.45	30.00	0.55
		3	13.49	12.56	16.06	13.00	29.06	30.00	0.94
		4	13.61	12.68	16.18	13.00	29.18	30.00	0.82
2CC, 30 + 20 MHz	3565.02 + 3589.98	1	13.41	13.20	16.32	13.00	29.32	30.00	0.68
		2	13.33	13.10	16.23	13.00	29.23	30.00	0.77
		3	12.97	12.73	15.86	13.00	28.86	30.00	1.14
		4	13.03	12.80	15.93	13.00	28.93	30.00	1.07
	3615 + 3639.96	1	13.56	13.43	16.51	13.00	29.51	30.00	0.49
		2	13.27	12.95	16.12	13.00	29.12	30.00	0.88
		3	13.23	12.83	16.04	13.00	29.04	30.00	0.96
		4	13.19	12.78	16.00	13.00	29.00	30.00	1.00
	3665.04 + 3690	1	12.73	12.35	15.55	13.00	28.55	30.00	1.45
		2	13.04	12.67	15.87	13.00	28.87	30.00	1.13
		3	12.66	12.30	15.49	13.00	28.49	30.00	1.51
		4	12.97	12.63	15.81	13.00	28.81	30.00	1.19
2CC, 40 + 20 MHz	3570 + 3599.7	1	13.15	12.59	15.89	13.00	28.89	30.00	1.11
		2	12.45	11.75	15.12	13.00	28.12	30.00	1.88
		3	12.73	12.23	15.50	13.00	28.50	30.00	1.50
		4	12.81	12.31	15.58	13.00	28.58	30.00	1.42
	3615.15 + 3644.85	1	13.79	13.68	16.75	13.00	29.75	30.00	0.25
		2	13.61	13.68	16.66	13.00	29.66	30.00	0.34
		3	13.86	13.87	16.88	13.00	29.88	30.00	0.12
		4	13.55	13.55	16.56	13.00	29.56	30.00	0.44
	3660.3 + 3690	1	12.37	12.46	15.43	13.00	28.43	30.00	1.57
		2	11.10	11.72	14.43	13.00	27.43	30.00	2.57
		3	12.52	12.73	15.64	13.00	28.64	30.00	1.36
		4	12.54	12.74	15.65	13.00	28.65	30.00	1.35

Test data, continued

2CC, 40 + 40 MHz	3570 + 3609.99	1	11.72	11.06	14.41	13.00	27.41	30.00	2.59
		2	11.54	11.03	14.30	13.00	27.30	30.00	2.70
		3	11.31	10.75	14.05	13.00	27.05	30.00	2.95
		4	11.60	11.04	14.34	13.00	27.34	30.00	2.66
	3604.98 + 3644.97	1	12.43	12.32	15.39	13.00	28.39	30.00	1.61
		2	12.29	12.36	15.34	13.00	28.34	30.00	1.66
		3	12.26	12.31	15.30	13.00	28.30	30.00	1.70
		4	12.26	12.31	15.30	13.00	28.30	30.00	1.70
	3639.99 + 3679.98	1	11.26	10.92	14.10	13.00	27.10	30.00	2.90
		2	11.35	11.13	14.25	13.00	27.25	30.00	2.75
		3	11.37	11.14	14.27	13.00	27.27	30.00	2.73
		4	11.39	11.09	14.25	13.00	27.25	30.00	2.75
2CC, 60 + 20 MHz	3579.99 + 3619.77	1	12.63	12.33	15.49	13.00	28.49	30.00	1.51
		2	12.48	12.32	15.41	13.00	28.41	30.00	1.59
		3	12.45	12.30	15.39	13.00	28.39	30.00	1.61
		4	12.54	12.38	15.47	13.00	28.47	30.00	1.53
	3615.09 + 3654.87	1	12.29	12.17	15.24	13.00	28.24	30.00	1.76
		2	12.06	12.12	15.10	13.00	28.10	30.00	1.90
		3	12.46	12.50	15.49	13.00	28.49	30.00	1.51
		4	12.16	12.16	15.17	13.00	28.17	30.00	1.83
	3650.22 + 3690	1	11.94	11.98	14.97	13.00	27.97	30.00	2.03
		2	11.96	12.14	15.06	13.00	28.06	30.00	1.94
		3	12.31	12.47	15.40	13.00	28.40	30.00	1.60
		4	12.30	12.40	15.36	13.00	28.36	30.00	1.64

Test data, continued

Bandwidth configuration	Frequency, MHz	Port	Conducted power, 1 st carrier, dBm/10 MHz	Conducted power, 2 nd carrier, dBm/10 MHz	Conducted power, 3 rd carrier, dBm/10 MHz	Total conducted power, dBm/10 MHz	Antenna peak gain, dBi	EIRP, dBm/10 MHz	EIRP Limit, dBm/10 MHz	Margin, dB
3CC, 10 + 10 + 10 MHz	3555 + 3564.99 + 3574.98	1	10.74	10.59	10.39	15.35	13.00	28.35	30.00	1.65
		2	10.93	10.78	10.57	15.53	13.00	28.53	30.00	1.47
		3	10.88	10.73	10.54	15.49	13.00	28.49	30.00	1.51
		4	10.73	10.65	10.51	15.40	13.00	28.40	30.00	1.60
	3615 + 3624.99 + 3634.89	1	11.62	11.70	11.80	16.48	13.00	29.48	30.00	0.52
		2	11.83	11.74	11.88	16.59	13.00	29.59	30.00	0.41
		3	11.75	11.70	11.77	16.51	13.00	29.51	30.00	0.49
		4	11.58	11.56	11.48	16.31	13.00	29.31	30.00	0.69
	3675 + 3684.99 + 3694.98	1	10.41	10.45	10.51	15.23	13.00	28.23	30.00	1.77
		2	10.14	10.22	10.31	15.00	13.00	28.00	30.00	2.00
		3	10.43	10.51	10.58	15.28	13.00	28.28	30.00	1.72
		4	10.03	10.07	10.11	14.84	13.00	27.84	30.00	2.16
3CC, 20 + 20 + 20 MHz	3560.01 + 3579.99 + 3599.97	1	11.27	10.98	10.68	15.75	13.00	28.75	30.00	1.25
		2	11.03	10.73	10.43	15.51	13.00	28.51	30.00	1.49
		3	11.20	10.88	10.61	15.67	13.00	28.67	30.00	1.33
		4	10.96	10.76	10.45	15.50	13.00	28.50	30.00	1.50
	3605.01 + 3624.99 + 3644.97	1	11.87	12.06	11.92	16.72	13.00	29.72	30.00	0.28
		2	11.99	12.08	12.14	16.84	13.00	29.84	30.00	0.16
		3	12.03	12.17	12.01	16.84	13.00	29.84	30.00	0.16
		4	11.81	11.96	11.79	16.63	13.00	29.63	30.00	0.37
	3650.04 + 3670.02 + 3690	1	10.74	10.82	10.97	15.62	13.00	28.62	30.00	1.38
		2	10.70	10.72	10.89	15.54	13.00	28.54	30.00	1.46
		3	10.50	10.54	10.71	15.36	13.00	28.36	30.00	1.64
		4	10.41	10.28	10.37	15.12	13.00	28.12	30.00	1.88
3CC, 40 + 20 + 10 MHz	3570 + 3599.7 + 3614.37	1	11.38	11.20	10.84	15.92	13.00	28.92	30.00	1.08
		2	11.40	11.24	10.91	15.96	13.00	28.96	30.00	1.04
		3	11.32	11.24	11.09	15.99	13.00	28.99	30.00	1.01
		4	11.08	10.94	10.59	15.65	13.00	28.65	30.00	1.35
	3610.29 + 3639.99 + 3654.66	1	11.32	10.88	9.67	15.45	13.00	28.45	30.00	1.55
		2	11.35	10.98	9.90	15.56	13.00	28.56	30.00	1.44
		3	11.43	11.02	9.93	15.61	13.00	28.61	30.00	1.39
		4	11.19	10.85	9.78	15.42	13.00	28.42	30.00	1.58
	3650.61 + 3680.31 + 3694.98	1	11.33	10.84	10.05	15.54	13.00	28.54	30.00	1.46
		2	11.41	10.85	10.31	15.65	13.00	28.65	30.00	1.35
		3	11.39	10.85	10.25	15.63	13.00	28.63	30.00	1.37
		4	10.98	10.78	10.34	15.48	13.00	28.48	30.00	1.52

Test data, continued

3CC, 40 + 30 + 20 MHz	3570 + 3604.68 + 3629.64	1	11.86	11.64	12.09	16.64	13.00	29.64	30.00	0.36
		2	11.77	11.62	12.10	16.61	13.00	29.61	30.00	0.39
		3	12.12	11.95	12.45	16.95	13.00	29.95	30.00	0.05
		4	11.80	11.80	11.69	16.53	13.00	29.53	30.00	0.47
	3600.18 + 3634.86 + 3659.82	1	11.93	12.01	11.05	16.46	13.00	29.46	30.00	0.54
		2	12.28	12.06	11.54	16.74	13.00	29.74	30.00	0.26
		3	12.20	12.00	11.48	16.68	13.00	29.68	30.00	0.32
		4	11.79	11.93	11.63	16.56	13.00	29.56	30.00	0.44
	3630.36 + 3665.04 + 3690	1	11.95	11.71	11.70	16.56	13.00	29.56	30.00	0.44
		2	11.90	11.57	11.72	16.50	13.00	29.50	30.00	0.50
		3	12.04	11.71	11.85	16.64	13.00	29.64	30.00	0.36
		4	11.88	11.31	11.27	16.27	13.00	29.27	30.00	0.73
3CC, 40 + 20 + 20 MHz	3570 + 3599.7 + 3619.68	1	12.28	11.78	11.83	16.74	13.00	29.74	30.00	0.26
		2	12.30	11.80	11.83	16.75	13.00	29.75	30.00	0.25
		3	12.08	11.64	11.54	16.53	13.00	29.53	30.00	0.47
		4	12.16	12.07	11.86	16.80	13.00	29.80	30.00	0.20
	3605.16 + 3634.86 + 3654.84	1	11.93	12.05	11.90	16.73	13.00	29.73	30.00	0.27
		2	11.90	12.03	11.86	16.70	13.00	29.70	30.00	0.30
		3	11.83	11.82	11.56	16.51	13.00	29.51	30.00	0.49
		4	11.90	11.95	11.72	16.63	13.00	29.63	30.00	0.37
	3640.32 + 3670.02 + 3690	1	11.94	11.66	11.96	16.63	13.00	29.63	30.00	0.37
		2	11.98	11.69	11.99	16.66	13.00	29.66	30.00	0.34
		3	11.50	11.14	11.32	16.09	13.00	29.09	30.00	0.91
		4	11.58	11.16	11.31	16.12	13.00	29.12	30.00	0.88

Test data, continued

BW config	Freq., MHz	Port	Conducted power, 1 st carrier, dBm/10 MHz	Conducted power, 2 nd carrier, dBm/10 MHz	Conducted power, 3 rd carrier, dBm/10 MHz	Conducted power, 4 th carrier, dBm/10 MHz	Total conducted power, dBm/10 MHz	Antenn a peak gain, dBi	EIRP, dBm/10 MHz	EIRP Limit, dBm/10 MHz	Margin , dB
4CC, 40 + 30 + 20 + 10 MHz	3570 + 3604.68 + 3629.64 + 3644.31	1	10.73	10.95	10.99	9.90	16.68	13.00	29.68	30.00	0.32
		2	10.8	10.69	10.61	10.60	16.70	13.00	29.70	30.00	0.30
		3	10.65	10.86	10.91	9.84	16.61	13.00	29.61	30.00	0.39
		4	10.67	10.89	10.92	9.84	16.62	13.00	29.62	30.00	0.38
	3595.32 + 3630 + 3654.96 + 3669.63	1	10.39	10.68	10.32	9.36	16.24	13.00	29.24	30.00	0.76
		2	10.17	10.41	10.07	9.11	15.99	13.00	28.99	30.00	1.01
		3	10.52	10.80	10.42	9.46	16.35	13.00	29.35	30.00	0.65
		4	10.5	10.77	10.40	9.42	16.32	13.00	29.32	30.00	0.68
	3620.67 + 3655.35 + 3680.31 + 3694.98	1	10.32	9.96	9.79	9.23	15.86	13.00	28.86	30.00	1.14
		2	10.14	9.74	9.57	9.05	15.66	13.00	28.66	30.00	1.34
		3	10.17	9.78	9.61	9.10	15.70	13.00	28.70	30.00	1.30
		4	10.46	10.08	9.93	9.44	16.01	13.00	29.01	30.00	0.99
4CC, 20 + 20 + 20 + 20 MHz	3560.01 + 3579.99 + 3599.97 + 3619.95	1	10.08	9.93	9.86	9.83	15.95	13.00	28.95	30.00	1.05
		2	10.19	9.80	9.59	9.57	15.82	13.00	28.82	30.00	1.18
		3	10.25	9.85	9.64	9.61	15.87	13.00	28.87	30.00	1.13
		4	10.07	9.69	9.49	9.46	15.71	13.00	28.71	30.00	1.29
	3595.02 + 3615 + 3634.98 + 3654.96	1	9.83	9.74	9.84	9.57	15.77	13.00	28.77	30.00	1.23
		2	9.85	9.76	9.89	9.66	15.81	13.00	28.81	30.00	1.19
		3	9.89	9.79	9.91	9.73	15.85	13.00	28.85	30.00	1.15
		4	9.95	9.84	9.97	9.79	15.91	13.00	28.91	30.00	1.09
	3630.06 + 3650.04 + 3670.02 + 3690	1	9.71	9.65	9.38	9.57	15.60	13.00	28.60	30.00	1.40
		2	9.65	9.61	9.34	9.49	15.54	13.00	28.54	30.00	1.46
		3	9.46	9.44	9.17	9.29	15.36	13.00	28.36	30.00	1.64
		4	9.46	9.44	9.17	9.30	15.36	13.00	28.36	30.00	1.64

7.2 Emissions limits

7.2.1 References, definitions and limits

FCC §96.41:

- (e) *3.5 GHz Emissions and Interference Limits*
- (1) General protection levels
- (i) Except as otherwise specified in paragraph (e)(2) of this section, for channel and frequency assignments made by the SAS to CBSDs, the conducted power of any CBSD emission outside the fundamental emission bandwidth as specified in paragraph (e)(3) of this section (whether the emission is inside or outside of the authorized band) shall not exceed -13 dBm/MHz within 0-10 megahertz above the upper SAS-assigned channel edge and within 0-10 megahertz below the lower SAS-assigned channel edge. At all frequencies greater than 10 megahertz above the upper SAS assigned channel edge and less than 10 MHz below the lower SAS assigned channel edge, the conducted power of any CBSD emission shall not exceed -25 dBm/MHz. The upper and lower SAS assigned channel edges are the upper and lower limits of any channel assigned to a CBSD by an SAS, or in the case of multiple contiguous channels, the upper and lower limits of the combined contiguous channels.

7.2.2 Test summary

Verdict	Pass		
Test date	October 15, 2025	Temperature	23 °C
Tested by	Tarek Elkholy	Air pressure	986 mbar
Test location	Cambridge	Relative humidity	42 %

7.2.3 Observations, settings and special notes

- The spectrum was searched from 30 MHz to the 10th harmonic.
- All measurements were performed using an average (RMS) detector per ANSI C63.26
- Fundamental signal is shown in the plots.
- 1CC 30 MHz signal bandwidth was identified as the worst-case channel and was chosen to perform the spot-checking spurious emissions test.
- All emissions observed 5.9 – 6.4 GHz are from the EUT Wi-Fi radio and are irrelevant to this assessment.

Spectrum analyser settings for out of band emissions:

Resolution bandwidth:	1 MHz
Video bandwidth:	> RBW
Detector mode:	RMS
Trace mode:	Averaging

7.2.4 Test data

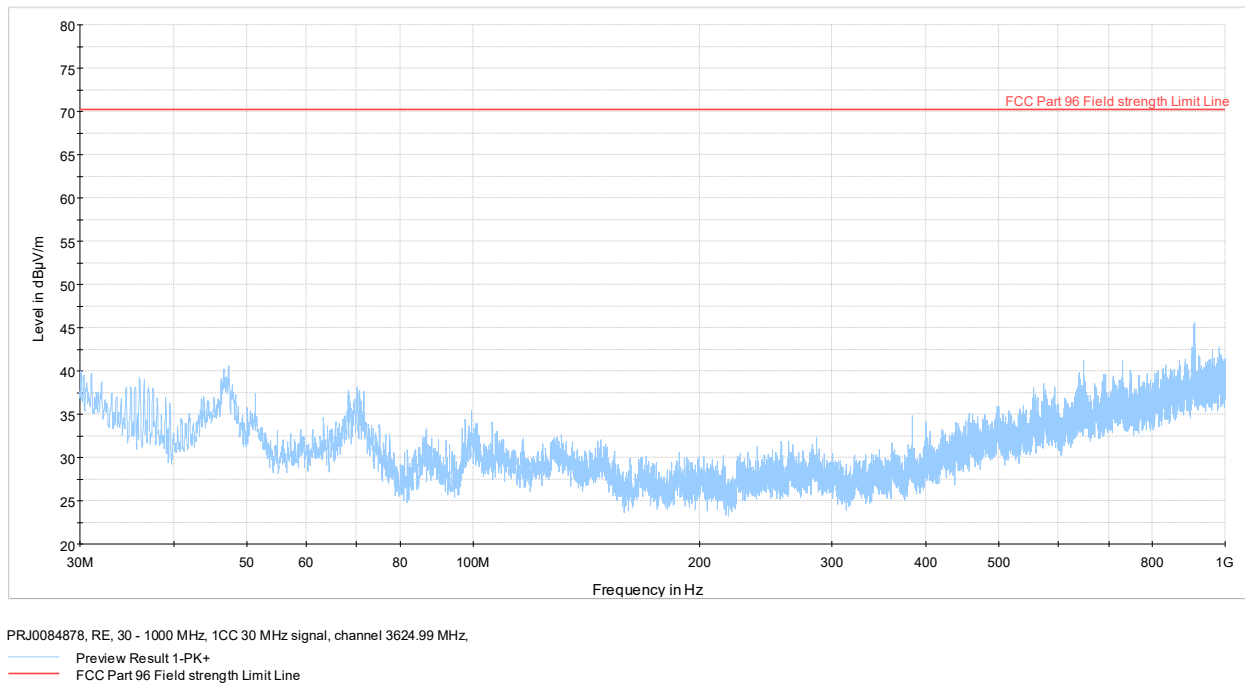


Figure 7.2-1: Radiated spurious emissions 30-1000 MHz

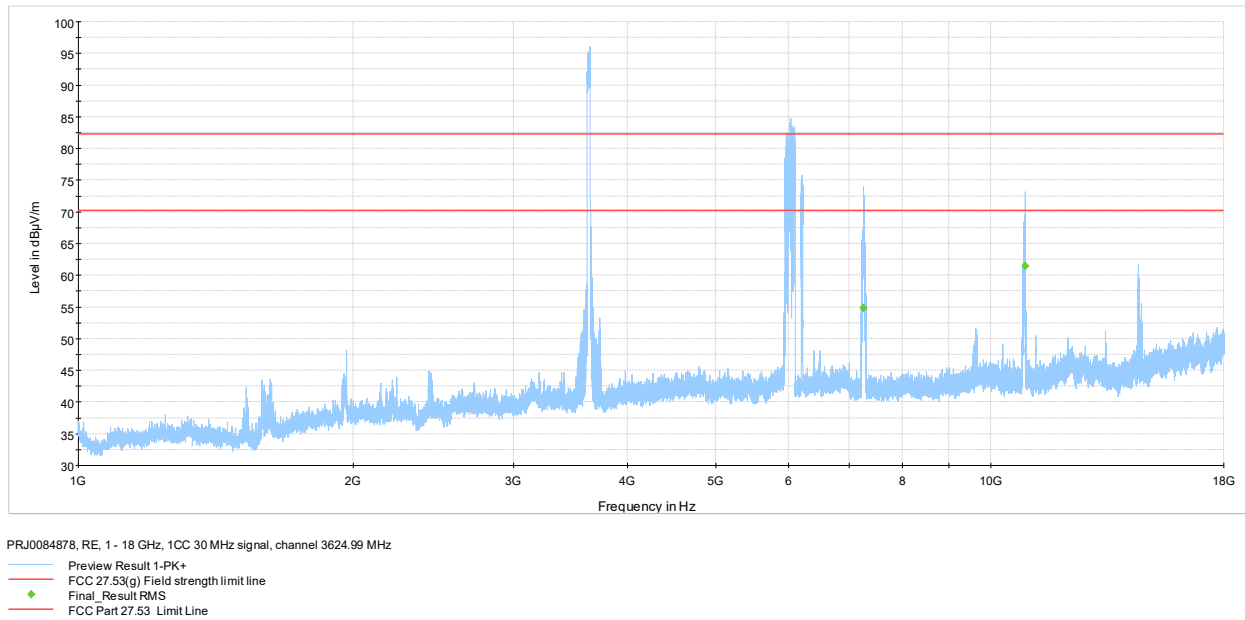


Figure 7.2-2: Radiated spurious emissions 1-18 GHz

Test data, continued

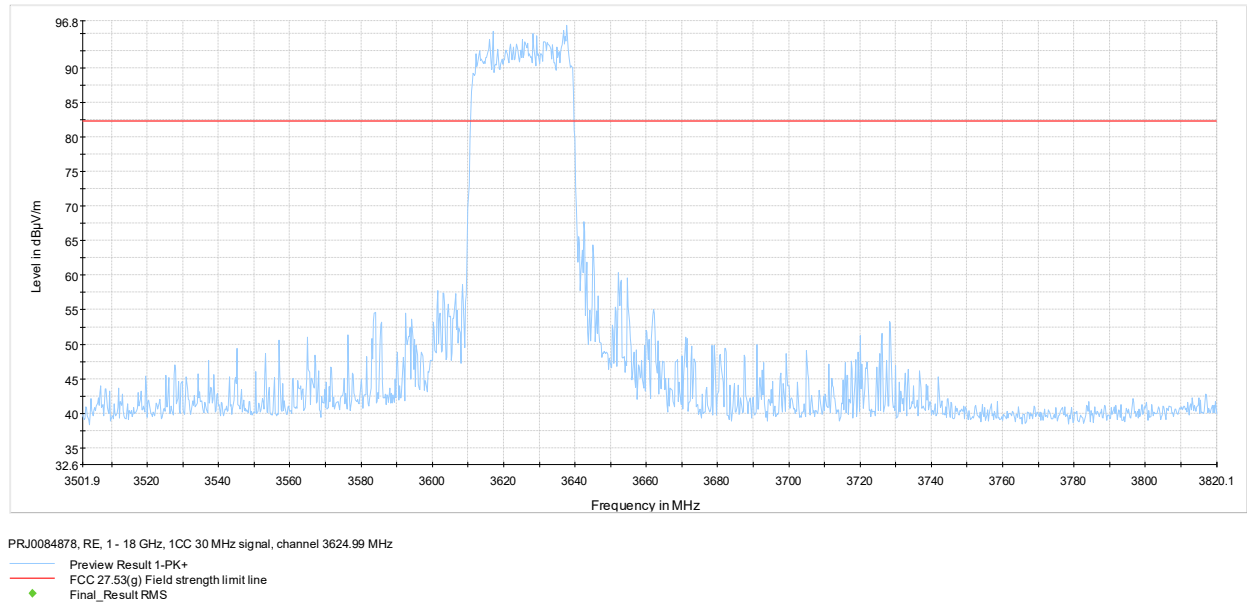


Figure 7.2-3: Radiated spurious emissions, fundamental signal

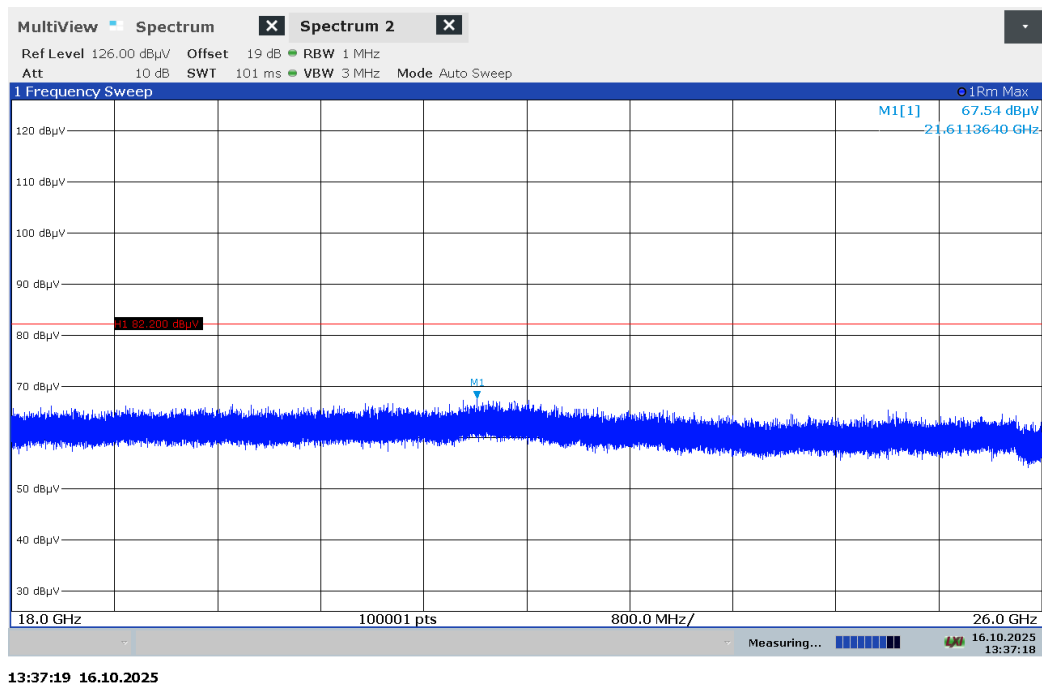
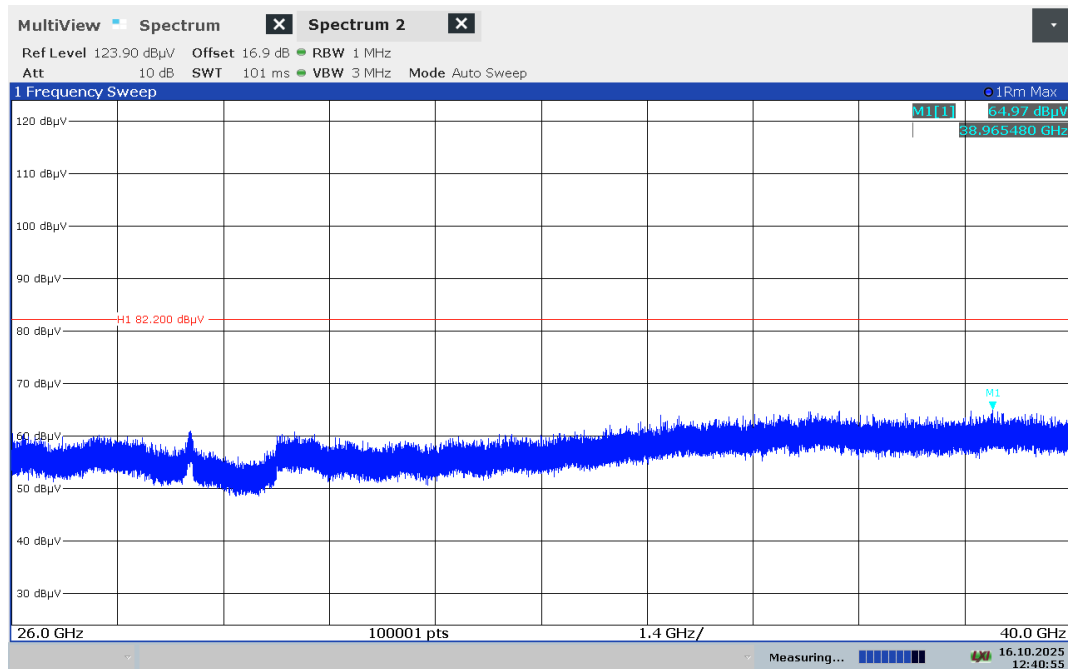


Figure 7.2-4: Radiated spurious emissions 18-26 GHz

Test data, continued



12:40:56 16.10.2025

Figure 7.2-5: Radiated spurious emissions 26-40 GHz

End of the test report