

RADIO TEST REPORT

Report ID

REP157375

Project ID

PRJ0088090

Type of assessment:

Transmitters co-location

Applicant:

Geotab Inc.

Description of product:

Asset Tracker

Model number(s)/HVIN(s):

GATAA2

Model name(s) / Product marketing name (PMN):

GO Anywhere Plus

FCC identifier:

FCC ID: 2AV57GATAA2

Contains FCC ID:

XMR2023EG916QGL

Specifications:

- ◆ FCC 47 CFR Part 15, Subpart C, §15.247
- ◆ FCC 47 CFR Part 27, Subpart C

Date of issue: April 8, 2026

Alvin Liu, EMC/RF Specialist

Tested by



Signature

Dhara Patel, 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

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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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Section 1 Report summary

1.1 Test specifications

FCC 47 CFR Part 15, Subpart C, 15.247	Operation in the 902–928 MHz, 2400–2483.5 MHz, and 5725–5850 MHz
FCC 47 CFR Part 27, Subpart C	Miscellaneous wireless communications services

1.2 Test methods

KDB 996369 D04 Module Integration Guide v02	MODULAR TRANSMITTER INTEGRATION GUIDE GUIDANCE FOR HOST PRODUCT MANUFACTURERS
558074 D01 15.247 Meas Guidance v05r02 (April 2, 2019)	Guidance for compliance measurements on digital transmission system, frequency hopping spread spectrum system, and hybrid system devices operating under section 15.247 of the FCC rules.
ANSI C63.10-2020 + Cor.1-2023 + C63.10a-2024 + Errata to C63.10a-2024	American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices
ANSI C63.26-2015	American National Standard for Compliance Testing of Transmitters Used in Licensed Radio Services

1.3 Exclusions

Partial testing was performed on the product with the transmitter operating to confirm that the host product meets the FCC requirements. This investigation of the final product was done by spot checking emissions from the device while operating the host as a composite system. This testing was performed with the host product configured in typical operational modes to check the spurious emissions for compliance with all the applicable rules.

1.4 Statement of compliance

Statement of Conformity:

The reported results have been evaluated against the specified limits of the standard(s) listed in **Section 1.1** of this report.

Conformity with the specified requirements is determined by comparing the measured results directly to the applicable limits. Measurement uncertainty is not applied to adjust or attribute to the measured value for the purpose of compliance determination.

In the configuration tested, the **Equipment Under Test (EUT)** was found to be compliant. Unless otherwise noted in **Section 1.3**, all testing was performed against the relevant requirements of the applicable test standard(s).

The results obtained indicate that the product under test complies in full with the requirements tested, and the test results relate only to the items tested.

Refer to the **Summary of Test Results** section 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
REP157375	April 8, 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

The EUT contains an LTE module (Quectel EG916Q-GL, FCC ID: XMR2023EG916QGL) and a BLE solution (Nordic nRF54H20) which is a chip down design. The testing was performed with the host product configured in simultaneous transmitter operational modes to check spurious emissions for compliance with all the applicable rules.

For investigation of transmitter co-location, the LTE transmit parameters (frequencies, channel bandwidth, and power levels) used during these tests were configured in accordance with the specifications provided in the module's original certification documentation. Based on the maximum transmitting output power and associated antenna gain, the representative scenario was selected for transmitting test at BLE Low/Mid/High channel and LTE band 66.

The evaluation was done to ensure there are no additional radiated spurious emissions generated due to simultaneous-transmission operations compared to single transmitter operations testing, and to ensure compliance with the applicable FCC rules for the transmitters operating individually and simultaneously. This includes compliance for the summation of all emissions from all outputs occupying the same or overlapping frequency ranges, as defined by the applicable rules. All other requirements are excluded from the scope of this report.

2.3 Model variant declaration

There were no model variants declared by the applicant.

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

Name	Geotab Inc.
Address	2440 Winston Park Drive, Oakville, Ontario, Canada, L6H 7V2

4.3 EUT information

Product description	Asset Tracker
Model / HVIN	GATAA2
Serial number	B2R5JF82KFE2
Part number	TB2-LTE2TEN
Power supply requirements	DC 12/24 V and Internal battery 3.6 V
Product description and theory of operation	GO Anywhere Plus is an advanced asset tracker specifically engineered for tractor-trailers, non-powered equipment (trolleys, roll-off bins), and powered equipment (generators, yellow iron) within the transportation sector. This device offers robust global connectivity and detailed track-and-trace capabilities, superseding its predecessor with an expanded feature set. It provides critical insights into asset utilization, location, and potential misuse through features like impact and tamper detection, aiming for high reliability and cost-effectiveness in high-volume deployments. The product also continues to serve existing GO Anywhere markets such as construction, agriculture, and stolen vehicle recovery.

4.4 Transmitter/Receiver info

Cellular

Wireless technology	LTE
Frequency band	Bands supported: B1/B2/B3/B4/B5/B7/B8/B12/B13/B18/B19/B20/25/B26/B28/B66/B34/B38/B39/B40/B41
Manufacturer	Quectel
Model	EG916Q-GL
Modulation	QPSK, 16QAM
Antenna information	Manufacturer: Kyocera, Part No. 1005981 and 1005992, Type: Internal LDS antenna, with the following gain 4.0 dBi for B1, B2, B3, B4, B25, B34, B39, B66 1.9 dBi for B5, B8, B12, B13, B18, B19, B20, B26, B28 2.6 dBi for B7, B38, B41 3.2 dBi for B40

Bluetooth

Wireless technology	BLE
Frequency band	2400–2483.5 MHz
Modulation	GFSK
Antenna information	Manufacturer: Kyocera, Part No. 1005981 and 1005992, Type: Internal LDS antenna, Peak Gain: 2.7 dBi

4.5 EUT setup details

4.5.1 Radio exercise details

Operating conditions	– EUT was powered up using DC power supply. – EUT was set to LTE and BLE simultaneously transmitting mode. – EUT was commanded by the laptop running BT DTM Tool to transmit a Bluetooth signal at the designated channel. – EUT was in cellular link mode via callbox.
Transmitter state	– LTE transmitter set into continuous transmitting at Band 66/QPSK/5M BW/channel 1745MHz. – BLE transmitter set into continuous transmitting at Low/Mid/High channel with 10dBm/1Mbps/PRBS9/255 Bytes.

4.5.2 EUT setup configuration

Table 4.5-1: Support equipment

Description	Brand name	Serial number, Part number, Model, Revision level
Laptop	DELL	MN: LATITUDE E6440, FA003070
DC power supply	GWINSTEK	MN: GRP-3060D
Wideband Radio Communication Tester	Rohde & Schwarz	SN: 107499, MN: CMW500, FA003156

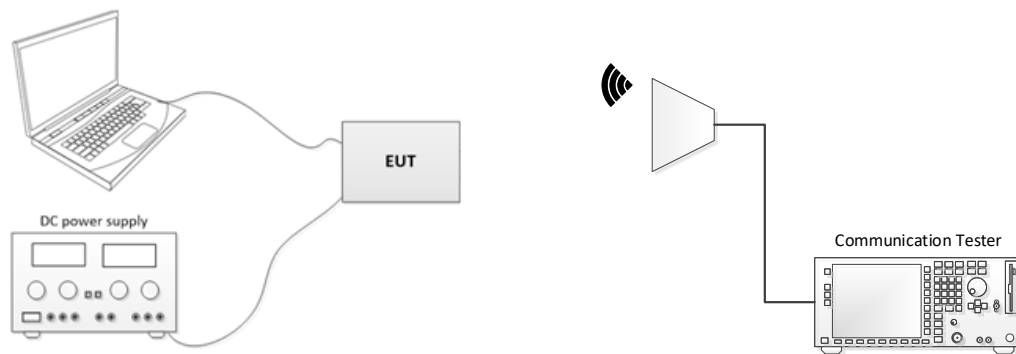


Figure 4.5-1: Radiated testing block diagram

Section 5 Summary of test results

5.1 Testing period

Test start date	March 17, 2026	Test end date	March 26, 2026
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5.2 Sample information

Receipt date	March 5, 2026	Nemko sample ID number	PRJ00880900001
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5.3 Test results

Table 5.3-1: FCC Test results

Part	Test description	Verdict
§15.247(d)	Spurious emissions	Pass
§27.53	Radiated spurious emissions	Pass

Notes: As per scope of this report, only radiated emissions were evaluated.

Section 6 Test equipment

6.1 Test equipment list

Table 6.1-1: Equipment list

Equipment	Manufacturer	Model no.	Asset no.	Cal./Ver. cycle	Next cal./ver.
3 m EMI test chamber	TDK	SAC-3	FA003012	1 year	October 31, 2026
Flush mount turntable	SUNAR	FM2022	FA003006	—	NCR
Controller	SUNAR	SC110V	FA002976	—	NCR
Antenna mast	SUNAR	TLT2	FA003007	—	NCR
Receiver/spectrum analyzer	Rohde & Schwarz	ESR26	FA002969	1 year	May 28, 2026
Bilog antenna (20–2000 MHz)	Sunol	JB3	FA002108	1 year	April 8, 2026
Horn antenna (1–18 GHz)	ETS-Lindgren	3117	FA002911	1 year	June 2, 2026
Preamp (1–18 GHz)	ETS Lindgren	124334	FA002956	1 year	April 11, 2026
High pass filter (3–18 GHz)	Microwave circuits	H3G020G8	FA003026	—	NCR
50 Ω coax cable	Huber + Suhner	None	FA003047	1 year	August 6, 2026
50 Ω coax cable	Huber + Suhner	None	FA003402	1 year	August 6, 2026
50 Ω SMA coax cable	Huber + Suhner	None	FA003056	1 year	August 6, 2026

Notes: 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
EMC/Radio 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 dB
Radiated spurious emissions (1 GHz to 6 GHz)	4.74 dB
Radiated spurious emissions (6 GHz to 18 GHz)	5.33 dB

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 Radiated spurious (unwanted) emissions

7.1.1 References, definitions and limits

FCC §15.247:

- (d) In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

FCC §27.53:

- (h) AWS emission limits
- (1) General protection levels. Except as otherwise specified below, for operations in the 1695–1710 MHz, 1710–1755 MHz, 1755–1780 MHz, 1915–1920 MHz, 1995–2000 MHz, 2000–2020 MHz, 2110–2155 MHz, 2155–2180 MHz, and 2180–2200 bands, the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log_{10}(P)$ dB.

Table 7.1-1: FCC restricted frequency bands

MHz	MHz	MHz	GHz
0.090–0.110	16.42–16.423	399.9–410	4.5–5.15
0.495–0.505	16.69475–16.69525	608–614	5.35–5.46
2.1735–2.1905	16.80425–16.80475	960–1240	7.25–7.75
4.125–4.128	25.5–25.67	1300–1427	8.025–8.5
4.17725–4.17775	37.5–38.25	1435–1626.5	9.0–9.2
4.20725–4.20775	73–74.6	1645.5–1646.5	9.3–9.5
6.215–6.218	74.8–75.2	1660–1710	10.6–12.7
6.26775–6.26825	108–121.94	1718.8–1722.2	13.25–13.4
6.31175–6.31225	123–138	2200–2300	14.47–14.5
8.291–8.294	149.9–150.05	2310–2390	15.35–16.2
8.362–8.366	156.52475–156.52525	2483.5–2500	17.7–21.4
8.37625–8.38675	156.7–156.9	2690–2900	22.01–23.12
8.41425–8.41475	162.0125–167.17	3260–3267	23.6–24.0
12.29–12.293	167.72–173.2	3332–3339	31.2–31.8
12.51975–12.52025	240–285	3345.8–3358	36.43–36.5
12.57675–12.57725	322–335.4	3600–4400	Above 38.6
13.36–13.41			

References, definitions and limits, continued

Table 7.1-2: FCC §15.209 – Radiated emission limits

Frequency, MHz	Field strength of emissions		Measurement distance, m
	$\mu\text{V/m}$	$\text{dB}\mu\text{V/m}$	
0.009–0.490	2400/F	$67.6 - 20 \times \log_{10}(F)$	300
0.490–1.705	24000/F	$87.6 - 20 \times \log_{10}(F)$	30
1.705–30.0	30	29.5	30
30–88	100	40.0	3
88–216	150	43.5	3
216–960	200	46.0	3
above 960	500	54.0	3

Notes: In the emission table above, the tighter limit applies at the band edges.
For frequencies above 1 GHz the limit on peak RF emissions is 20 dB above the maximum permitted average emission limit applicable to the equipment under test.

7.1.2 Test summary

Verdict	Pass		
Test date	March 17, 2026, March 26, 2026	Temperature	23–24 °C
Tested by	Alvin Liu	Air pressure	970 mbar
Test location	Cambridge	Relative humidity	39–40 %

7.1.3 Observations, settings and special notes

- As part of the current assessment, the test range of 9 kHz to 5th harmonic has been fully considered and compared to the actual frequencies utilized within the EUT. Since the EUT contains a transmitter in the GHz range, the EUT has been deemed compliant without formal testing in the 9 kHz to 30 MHz test range, therefore formal test results (tabular data and/or plots) are not provided within this test report.
- The spectral plots within this section are a summation of vertical and horizontal scans. The spectral scans have been corrected with the associated applicable transducer factors.
- All measurements were performed as per ANSI C63.26 and ANSI C63.10.
- All measurements were performed at the distance of 3 m.

Spectrum analyser settings

Resolution bandwidth:	Measurements below 1 GHz: 100 kHz Peak or 120 kHz Q-Peak, Measurements above 1 GHz: 1 MHz
Video bandwidth:	Measurements below 1 GHz: 300 kHz, Measurements above 1 GHz: 3 MHz
Detector mode:	Peak
Trace mode:	Max Hold

Spectrum analyser settings (Average measurements above 1 GHz)

Resolution bandwidth:	1 MHz
Video bandwidth:	3 MHz
Detector mode:	RMS
Trace mode:	Average

7.1.4 Test data

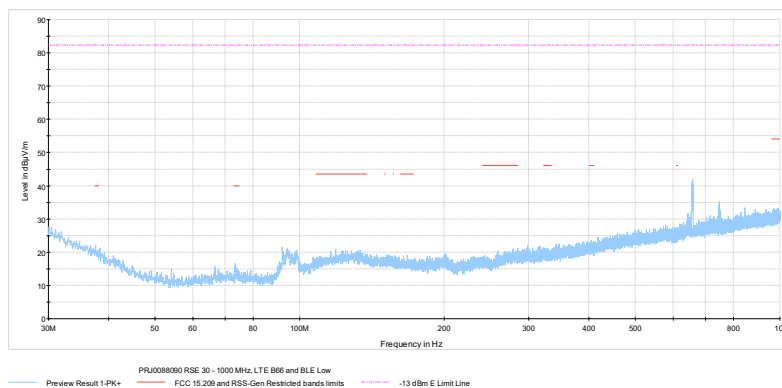
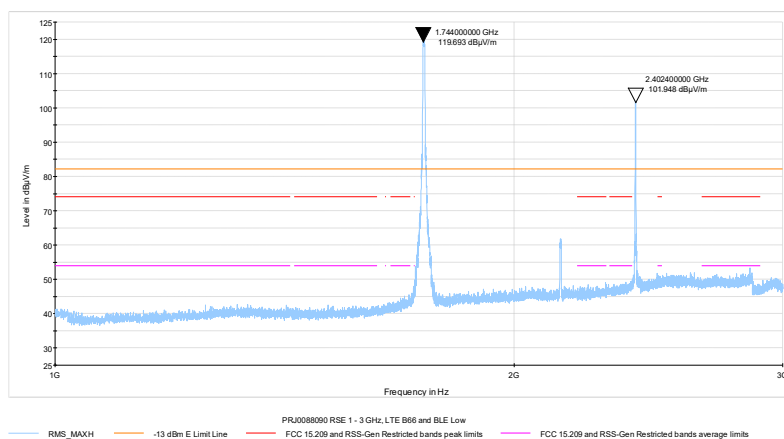


Figure 7.1-1: Radiated spurious emissions 30 – 1000 MHz, LTE Band 66 and BLE low channel



Note: The fundamental frequency signals of transmitters are marked in the plots.

Figure 7.1-2: Radiated spurious emissions 1 – 3 GHz, LTE Band 66 and BLE low channel

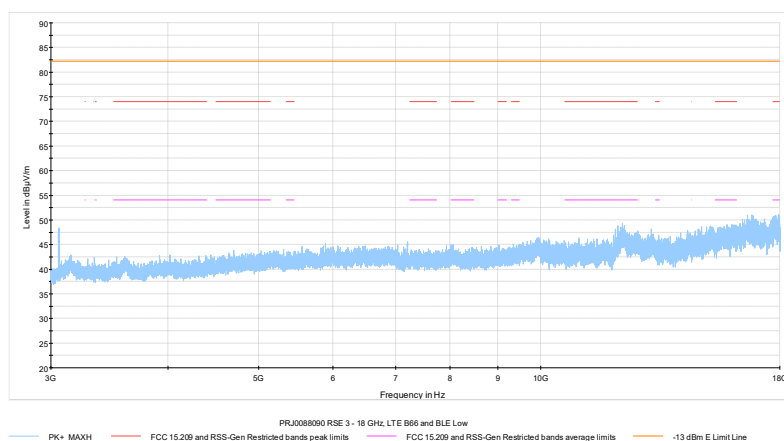


Figure 7.1-3: Radiated spurious emissions 3 – 18 GHz, LTE Band 66 and BLE low channel

Test data, continued

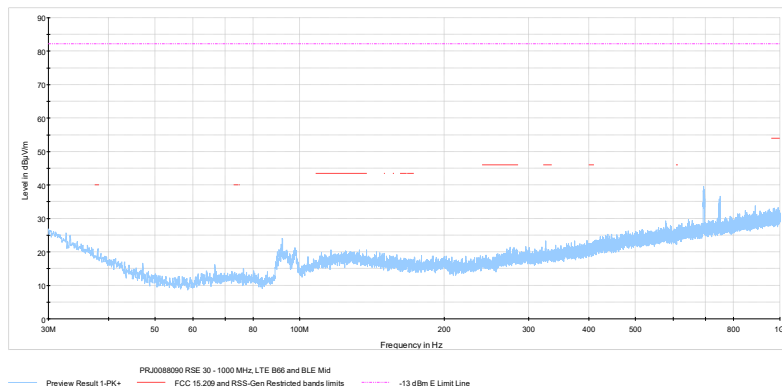
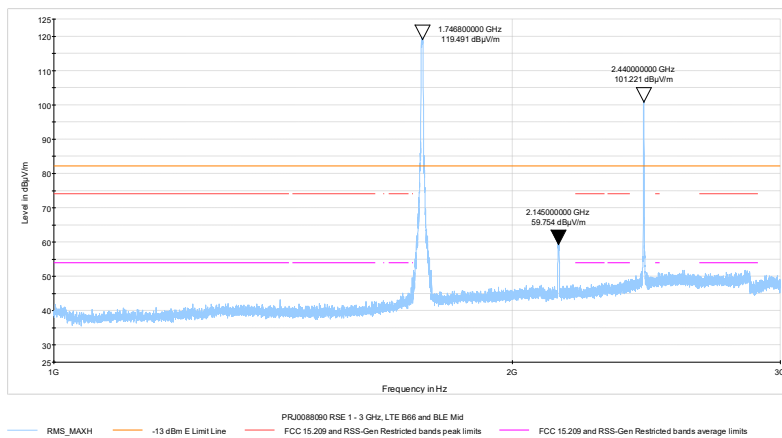


Figure 7.1-4: Radiated spurious emissions 30 – 1000 MHz, LTE Band 66 and BLE mid channel



Note: The fundamental frequency signals of transmitters are marked in the plots.

Figure 7.1-5: Radiated spurious emissions 1 – 3 GHz, LTE Band 66 and BLE mid channel

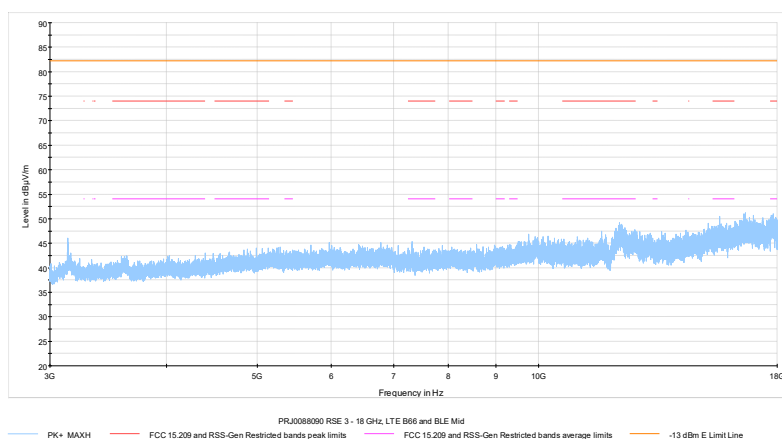


Figure 7.1-6: Radiated spurious emissions 3 – 18 GHz, LTE Band 66 and BLE mid channel

Test data, continued

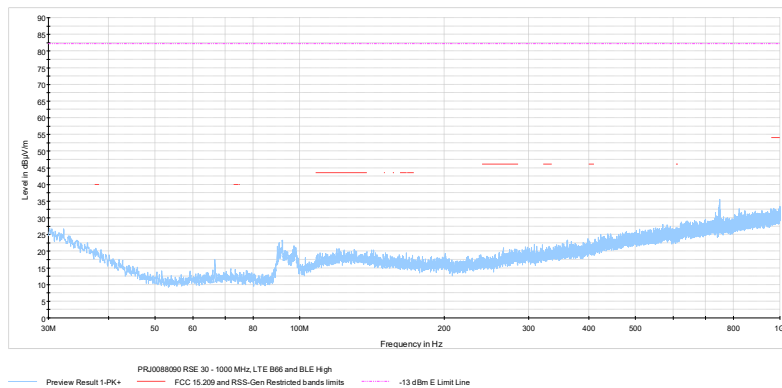
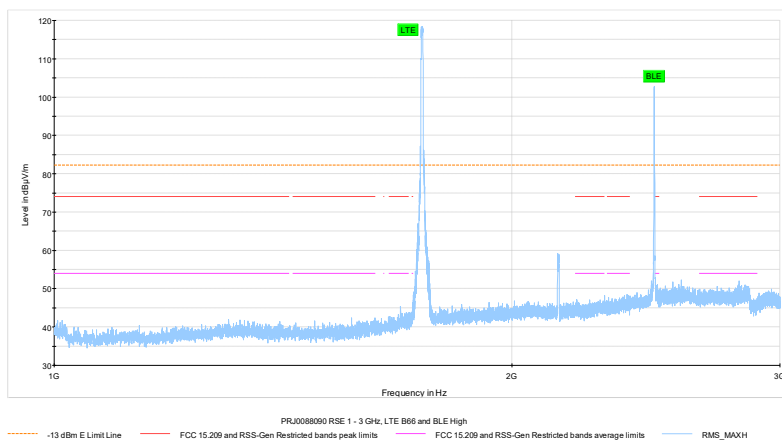


Figure 7.1-7: Radiated spurious emissions 30 – 1000 MHz, LTE Band 66 and BLE high channel



Note: The fundamental frequency signals of transmitters are marked in the plots.

Figure 7.1-8: Radiated spurious emissions 1 – 3 GHz, LTE Band 66 and BLE high channel

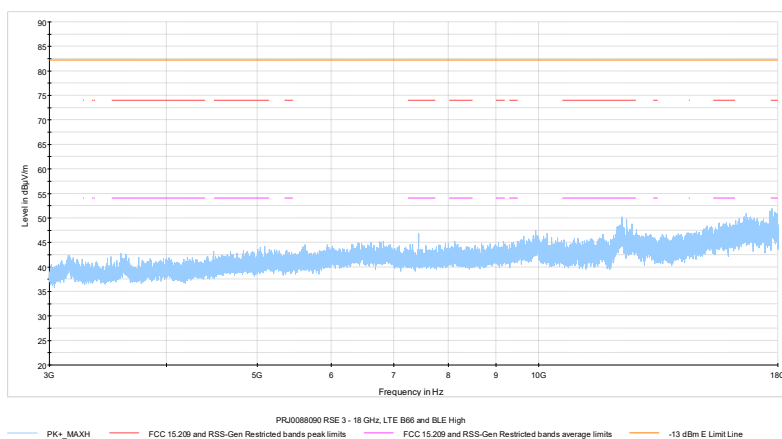


Figure 7.1-9: Radiated spurious emissions 3 – 18 GHz, LTE Band 66 and BLE high channel

Test data, continued

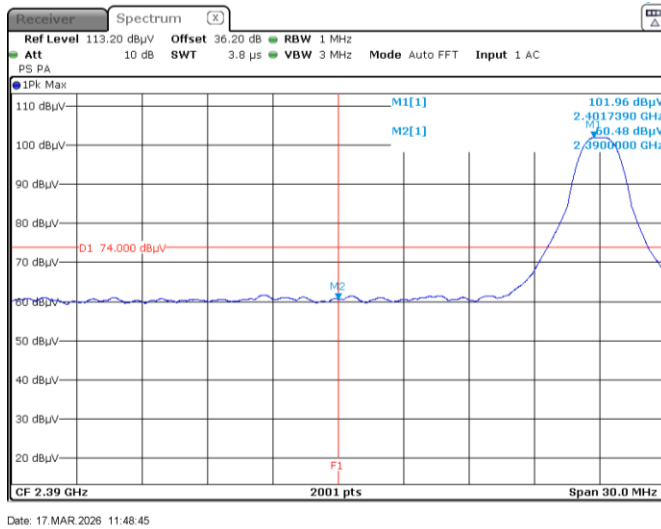


Figure 7.1-10: Radiated band edge spurious emissions at 2390 MHz, Peak

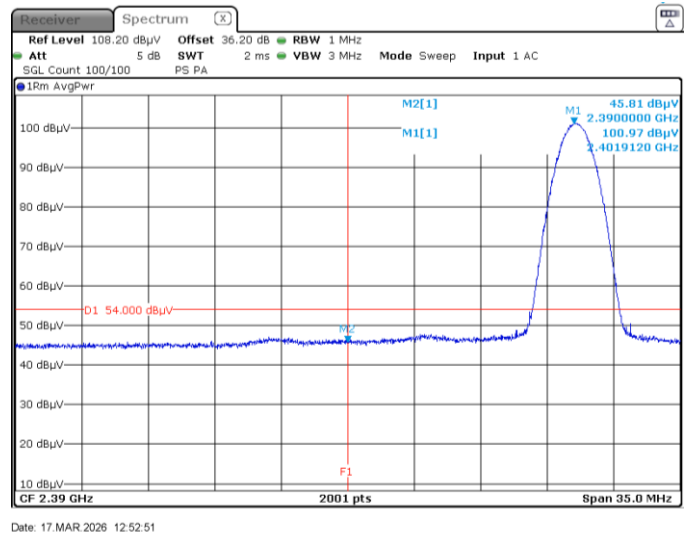


Figure 7.1-11: Radiated band edge spurious emissions at 2390 MHz, Average

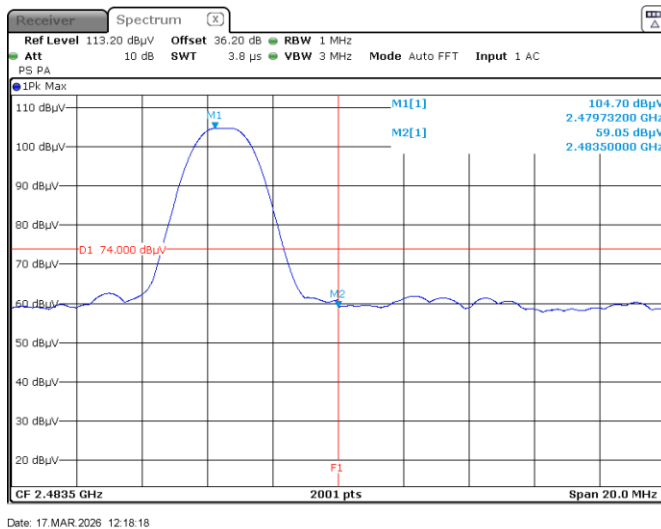


Figure 7.1-12: Radiated band edge spurious emissions at 2483.5 MHz, Peak

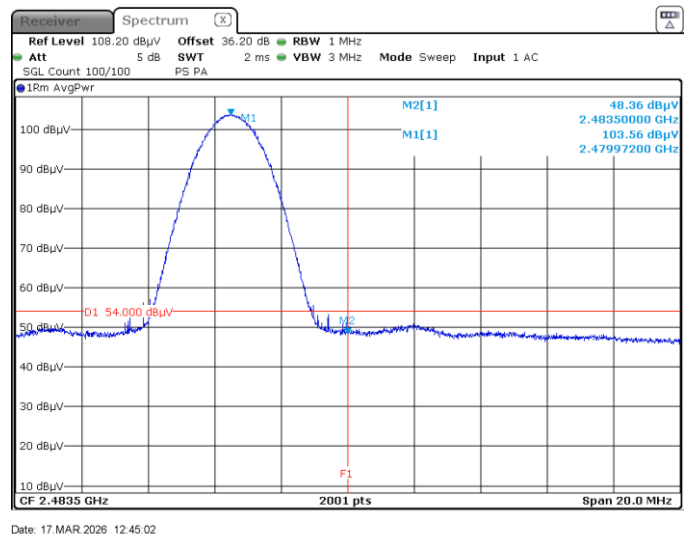


Figure 7.1-13: Radiated band edge spurious emissions at 2483.5 MHz, Average

Section 8 EUT photos

8.1 External photos



Figure 8.1-1: Front view photo



Figure 8.1-2: Rear view photo



Figure 8.1-3: Side view photo



Figure 8.1-4: Side view photo



Figure 8.1-5: Top view photo



Figure 8.1-6: Bottom view photo

End of the test report