

MEASUREMENT REPORT

FCC PART 15.247 BLE

Report No.: S20250816910501

Issue Date: 11-07-2025

Applicant: Queclink Wireless Solutions Co., Ltd.
Address: No.30, Lane 500, Xinlong Road, Minhang District, Shanghai,
China, 201101
FCC ID: YQD-GV850CNA
Product: GPS Tracker
Model No.: GV850CNA, GV851CNA
FCC Classification: Digital Transmission System (DTS)
FCC Rule Part(s): Part 15 Subpart C (15.247)
Test Procedure(s): ANSI C63.10-2013, KDB 558074 D01v05r02
Result: Pass
Item Receipt Date: Sep. 04, 2025
Test Date: Sep. 05 ~ Nov. 03, 2025

Compiled By

Stone Zhang

(Stone Zhang)
Senior Test Engineer

Approved By

Line Chen

(Line Chen)
Engineer Manager



The test results relate only to the samples tested.

This equipment has been shown to be capable of compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in ANSI C63.10-2013. Test results reported herein relate only to the item(s)

The test report shall not be reproduced except in full without the written approval of Fangguang Inspection & Testing Co., Ltd. Wuxi Branch

The test report must not be used by the client to claim product certifications, approval, or endorsement by NVLAP, NIST or any agency of U.S. Government.

Revision History

Report No.	Version	Description	Issue Date
S20250816910501	Rev. 01	/	11-07-2025

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§2.1033 General Information

Applicant:	Queclink Wireless Solutions Co., Ltd.
Applicant Address:	No.30, Lane 500, Xinlong Road, Minhang District, Shanghai, China, 201101
Manufacturer:	Queclink Wireless Solutions Co., Ltd.
Manufacturer Address:	No.30, Lane 500, Xinlong Road, Minhang District, Shanghai, China, 201101
Factory:	Queclink Wireless Solutions Co., Ltd.
Factory Address:	No.30, Lane 500, Xinlong Road, Minhang District, Shanghai, China, 201101
Test Site:	Fanguang Inspection & Testing Co., Ltd.
LAB ID:	CN5037
LAB registration number:	600222-0
Test Site Address:	No.8 Ningyun Rd., Xinwu District Wuxi, Jiangsu 214000 China
FCC Rule Part(s):	Part 15 Subpart C (15.247)
FCC ID:	YQD-GV850CNA
Test Device Serial No.:	S/N.: / ☐ Production ☒ Pre-Production ☐ Engineering
FCC Classification:	Digital Transmission System (DTS)

1. Introduction

1.1. Scope

Measurement and determination of electromagnetic emissions (EMC) of radio frequency devices including intentional and/or unintentional radiators for compliance with the technical rules and regulations of the Federal Communications Commission and the Innovation, Science and Economic Development Canada.

1.2. Fangguang Test Location

These measurement tests were performed at the Fangguang Inspection and testing Co.,LTD located at No.8 Ningyun Rd., Xinwu District Wuxi, Jiangsu 214000 China. The detailed description of the measurement facility was found to be in compliance with the requirements of ANSI C63.10-2013.

2. Product Information

2.1. Equipment Description

Product Name:	GPS Tracker
Test Model:	GV850CNA
Additional Model:	GV851CNA
Model difference descriptions:	Product of GPS Tracker, Model Name: GV850CNA & GV851CNA, Model: GV850CNA and its additional model: GV851CNA share the same circuit diagram, hardware version, software version, Bluetooth chip, RF module, 4G module, GNSS module and Bluetooth module. The only difference is that GV850CNA includes an additional CAN chip on its PCB.
Trade Mark:	Queclink
Input Voltage Range:	DC 8-32V
Software Version:	GV850_FCTR00A01V01_EMMC
Hardware Version:	V1.04
EUT sample number:	S202508169105-1-1 (Conducted) S202508169105-1-2 (Radiated)

Note: This information is provided by the Customer and its authenticity is the responsibility of the Customer.

2.2. Product Specification Subjective to this Report

Bluetooth Frequency	BLE: 2402~2480MHz
Number of Channels	BLE: 40
Channel Spacing	2MHz
Type of modulation	GFSK
Data Rate	1Mbps
Antenna Type:	Ceramic antenna
Antenna Gain:	3.0dBi

Note:

1. The maximum Antenna Gain was declared by the manufacturer.
2. This report is made solely on the basis of such data and/or information. We accept no responsibility for the authenticity and completeness of the above data and information and the validity of the results and/or conclusions. The test model is GV850CNA.

2.3. Operation Frequency / Channel List

Channel	Frequency	Channel	Frequency	Channel	Frequency
00	2402 MHz	01	2404 MHz	02	2406 MHz
03	2408 MHz	04	2410 MHz	05	2412 MHz
06	2414 MHz	07	2416 MHz	08	2418 MHz
09	2420 MHz	10	2422 MHz	11	2424 MHz
12	2426 MHz	13	2428 MHz	14	2430 MHz
15	2432 MHz	16	2434 MHz	17	2436 MHz
18	2438 MHz	19	2440 MHz	20	2442 MHz
21	2444 MHz	22	2446 MHz	23	2448 MHz
24	2450 MHz	25	2452 MHz	26	2454 MHz
27	2456 MHz	28	2458 MHz	29	2460 MHz
30	2462 MHz	31	2464 MHz	32	2466 MHz
33	2468 MHz	34	2470 MHz	35	2472 MHz
36	2474 MHz	37	2476 MHz	38	2478 MHz
39	2480 MHz	--	--	--	--

EUT was tested with Channel 0, 19 and 39.

2.4. Device Capabilities

This device contains the following capabilities: Bluetooth (5.2)

Note: The maximum achievable duty cycle was determined based on measurements performed on a spectrum analyzer in zero-span mode with RBW = 8MHz, VBW =8MHz. The RBW and VBW were both greater than 50/T, where T is the minimum transmission duration, and the number of sweep points across T was greater than 100. The duty cycles of BLE are 31.20%.

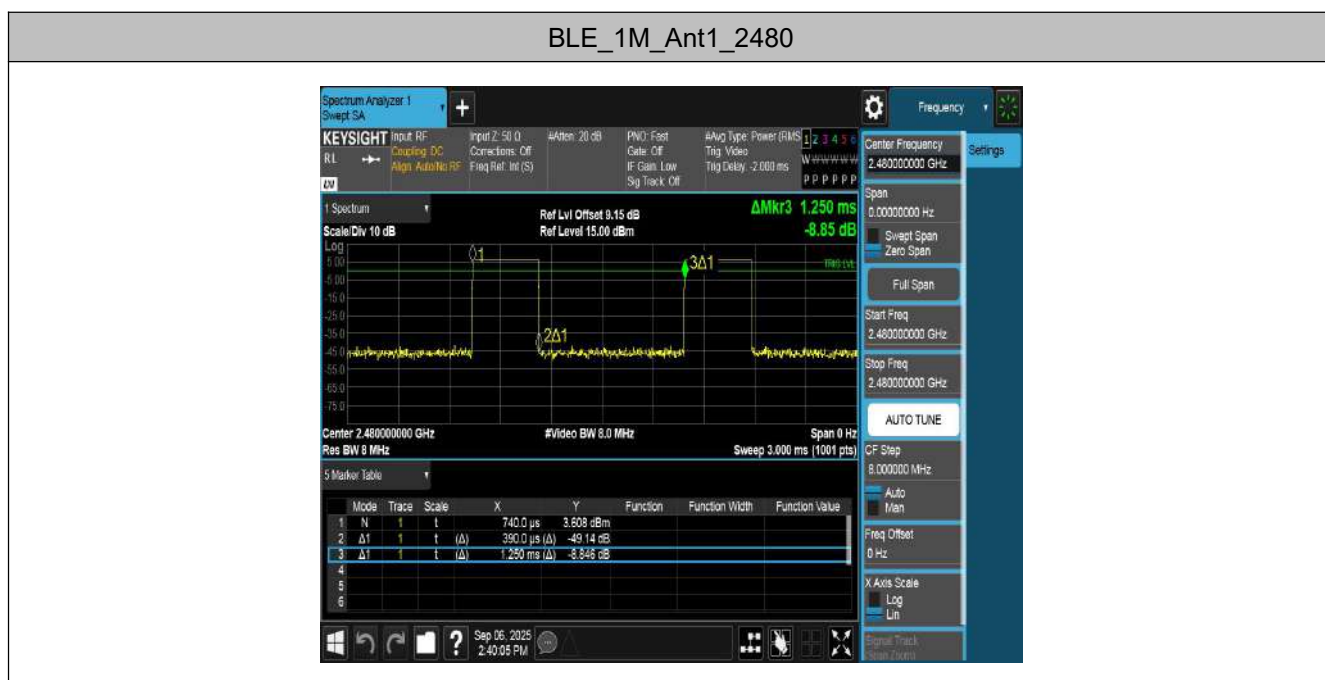
Test Mode	Antenna	Frequency (MHz)	ON Time [ms]	Period [ms]	X	DC [%]	xFactor
BLE_1M	Ant1	2402	0.39	1.25	0.3120	31.20	5.06
		2440	0.39	1.25	0.3120	31.20	5.06
		2480	0.39	1.25	0.3120	31.20	5.06

BLE_1M_Ant1_2402



BLE_1M_Ant1_2440





2.5. Description of Test Software

The test utility software used during testing was “sscom5.13.1.exe”, Power Parameter Value:

Software Version	Test Level
sscom5.13.1.exe	13,1,25

2.6. Test Mode

Test Mode	Mode 1: Transmit by BLE
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2.7. Test Configuration

The EUT was tested per the guidance of KDB 558074 D01 v05r02. ANSI C63.10-2013 was used to reference the appropriate EUT setup for radiated spurious emissions testing and AC line conducted testing.

2.8. EMI Suppression Device(s)/Modifications

No EMI suppression device(s) were added and/or no modifications were made during testing.

2.9. EUT Photo

The EUT external photo, internal photo and test setup photo, please refer to the plots in the S202508169105-A1/A2/A3.

2.10. Labeling Requirements

Per 2.1074 & 15.19; Docket 95-19

The label shall be permanently affixed at a conspicuous location on the device; instruction manual or pamphlet supplied to the user and be readily visible to the purchaser at the time of purchase.

However, when the device is so small wherein placement of the label with specified statement is not practical, only the FCC ID must be displayed on the device per Section 15.19(a)(5). Please see attachment for FCC ID label and label location.

2.11. Calculation with all conversion and correction factors used

For AC Line Conducted Emissions Test:

Measure Level (dB μ V) = Reading Level (dB μ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + LISN Factor (dB)

For Radiated Emissions Below 1GHz Test:

Measure Level (dB μ V/m) = Reading Level (dB μ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m).

For Radiated Emissions Above 1GHz Test:

Measure Level (dB μ V/m) = Reading Level (dB μ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

3. Description of Test

3.1. Evaluation Procedure

The measurement procedures described in the American National Standard for Testing Unlicensed Wireless Devices (ANSI C63.10-2013), and the guidance provided in KDB 558074 D01 v05r02 were used in the measurement of the EUT.

Deviation from measurement procedure.....None

3.2. AC Line Conducted Emissions

The line-conducted facility is located inside an 8'x4'x4' shielded enclosure. A 1m x 2m wooden table 80cm high is placed 40cm away from the vertical wall and 80cm away from the sidewall of the shielded room. Two 10kHz-30MHz, 50Ω/50uH Line-Impedance Stabilization Networks (LISNs) are bonded to the shielded room floor. Power to the LISNs is filtered by external high-current high-insertion loss power line filters. These filters attenuate ambient signal noise from entering the measurement lines. These filters are also bonded to the shielded enclosure.

The EUT is powered from one LISN and the support equipment is powered from the second LISN. All interconnecting cables more than 1 meter were shortened to a 1 meter length by non-inductive bundling (serpentine fashion) and draped over the back edge of the test table. All cables were at least 40cm above the horizontal reference ground-plane. Power cables for support equipment were routed down to the second LISN while ensuring that that cables were not draped over the second LISN.

Sufficient time for the EUT, support equipment, and test equipment was allowed in order for them to warm up to their normal operating condition. The RF output of the LISN was connected to the receiver and exploratory measurements were made to determine the frequencies producing the maximum emission from the EUT. The receiver was scanned from 150kHz to 30MHz. The detector function was set to peak mode for exploratory measurements while the bandwidth of the analyzer was set to 9kHz. The EUT, support equipment, and interconnecting cables were arranged and manipulated to maximize each emission. Each emission was also maximized by varying: power lines, the mode of operation or data exchange speed, or support equipment whichever determined the worst-case emission. Once the worst case emissions have been identified, the one EUT cable configuration/arrangement and mode of operation that produced these emissions are used for final measurements on the same test site. The analyzer is set to CISPR quasi-peak and average detectors with a 9kHz resolution bandwidth for final measurements.

An extension cord was used to connect to a single LISN which powered by EUT. The extension cord was calibrated with LISN, the impedance and insertion loss are compliance with the requirements as stated in ANSI C63.10-2013.

3.3. Radiated Emissions

The radiated test facilities consisted of an indoor 3 meter semi-anechoic chamber used for final measurements and exploratory measurements, when necessary. The measurement area is contained within the semi-anechoic chamber which is shielded from any ambient interference. For measurements above 1GHz absorbers are arranged on the floor between the turn table and the antenna mast in such a way so as to maximize the reduction of reflections. For measurements below 1GHz, the absorbers are removed. The turntable is used for radiated measurement. It is a continuously rotatable, remote controlled, metallic turntable and 2 meters (6.56 ft.) in diameter. The turn table is flush with the raised floor of the chamber in order to maintain its function as a ground plane. An 80cm high PVC support structure is placed on top of the turntable.

For all measurements, the spectrum was scanned through all EUT azimuths and from 1 to 4 meter receive antenna height using a broadband antenna from 30MHz up to the upper frequency shown in 15.33(b)(1) depending on the highest frequency generated or used in the device or on which the device operates or tunes. For frequencies above 1GHz, linearly polarized double ridge horn antennas were used. For frequencies below 30MHz, a calibrated loop antenna was used. When exploratory measurements were necessary, they were performed at 1 meter test distance inside the semi-anechoic chamber using broadband antennas, broadband amplifiers, and spectrum analyzers to determine the frequencies and modes producing the maximum emissions. Sufficient time for the EUT, support equipment, and test equipment was allowed in order for them to warm up to their normal operating condition. The test set-up for frequencies below 1GHz was placed on top of the 0.8 meter high, 1 x 1.5 meter table; and test set-up for frequencies 1-25GHz was placed on top of the 1.5 meter high, 1 x 1.5 meter table. The EUT, support equipment, and interconnecting cables were arranged and manipulated to maximize each emission. Appropriate precaution was taken to ensure that all emissions from the EUT were maximized and investigated. The system configuration, clock speed, mode of operation or video resolution, if applicable, turntable azimuth, and receive antenna height was noted for each frequency found.

Final measurements were made in the semi-anechoic chamber using calibrated, linearly polarized broadband and horn antennas. The test setup was configured to the setup that produced the worst case emissions. The spectrum analyzer was set to investigate all frequencies required for testing to compare the highest radiated disturbances with respect to the specified limits. The turntable containing the EUT was rotated through 360 degrees and the height of the receive antenna was varied 1 to 4 meters and stopped at the azimuth and height producing the maximum emission. Each emission was maximized by changing the orientation of the EUT through three orthogonal planes and changing the polarity of the receive antenna, whichever produced the worst-case emissions. According to 3dB Beam-Width of horn antenna, the horn antenna should be always directed to the EUT when rising height.

4. Antenna Requirements

Excerpt from §15.203 of the FCC Rules/Regulations:

“An intentional radiator antenna shall be designed to ensure that no antenna other than that furnished by the responsible party can be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.”

- Use a unique coupling to the intentional radiator.

5. Test Equipment Calibration Date

Radiated Emission

Instrument	Manufacturer	Type No.	Asset No.	Cali. Interval	Cali. Due Date
Loop Antenna	Schwarzbeck	FMZB 1519B	FWXGJC-2018-015	1 year	2026/06/21
Broadband Antenna	R&S	VULB 9168	FWXGJC-2024-055	1 year	2026/06/21
Broadband Horn Antenna	R&S	HF907	FWXGJC-2016-267-07	1 year	2026/06/21
Broadband Horn Antenna	Schwarzbeck	BBHA9170	FWXGJC-2018-016	1 year	2026/06/21
EMI Receiver	R&S	ESR26	FWXGJC-2016-267-01	1 year	2026/07/16
Spectrum Analyzer	Keysight	N9010B	FWXGJC-2018-010	1 year	2026/07/16
Pre-Amplifier	Tonscend	TAP0118048	FWXGJC-2024-056	1 year	2026/06/21
Pre-Amplifier	Chengyi	EMC184055SE	FWXGJC-2018-018	1 year	2026/07/16
Thermohygrometer	Yuhuaze	HTC-1	FWXDA-2016-387	1 year	2026/08/24
Wideband Radio Communication Tester	R&S	CMW500	FWXZ-2025-001	1 year	2026/07/07
Wireless Connectivity Tester	R&S	CMW270	FWXGJC-2018-023	1 year	2026/07/20
Anechoic Chamber	SAEMC	FSAC318	FGZZ-2024-035	3 year	2027/06/02

Conducted Test Equipment

Instrument	Manufacturer	Type No.	Asset No.	Cali. Interval	Cali. Due Date
Spectrum Analyzer	Keysight	N9010B	FWXGJC-2018-010	1 year	2026/07/16
Spectrum Analyzer	Keysight	N9020A	FWXGJC-2025-006	1 year	2026/07/16
Vector Signal Generator	Keysight	N5182B	FWXGJC-2018-011	1 year	2026/07/07
Analog Signal Generator	Keysight	N5171B	FWXGJC-2018-012	1 year	2026/07/14
Wideband Radio Communication Tester	R&S	CMW500	FWXZ-2025-001	1 year	2026/07/07
Wireless Connectivity Tester	R&S	CMW270	FWXGJC-2018-023	1 year	2026/07/20
RF Control Unit	Toncend	JS0806-2	FWXGJC-2018-013	1 year	2026/07/16
Thermohygrometer	Yuhuaze	HTC-1	FWXDA-2016-385	1 year	2026/08/24

Auxiliary Equipment

Instrument	Manufacturer	Type No.	Asset No.	Cali. Interval	Cali. Due Date
Filter	Tonscend	ZBSF6	07247867	1 year	2026/07/16
Filter	Tonscend	ZHPF6	07233297	1 year	2026/07/16
Attenuator	Tonscend	10dB	/	1 year	2026/07/16
RF Cable	Tonscend	T-1	/	1 year	2026/07/16

Test Software

Test Software	Manufacturer	Version	Asset No.	Function
JS32-RE	Tonscend	5.0.0	FWXWA-2024-002	RE
JS1120-3	Tonscend	3.3.10	FWXWA-2024-001	RF

6. Measurement Uncertainty

Where relevant, the following test uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k = 2$.

AC Conducted Emission Measurement
Measuring Uncertainty for a Level of Confidence of 95% ($U=2Uc(y)$): 2.68dB
Radiated Emission Measurement (9kHz - 30MHz)
Measuring Uncertainty for a Level of Confidence of 95% ($U=2Uc(y)$): 3.06dB
Radiated Emission Measurement (30MHz -1GHz)
Measuring Uncertainty for a Level of Confidence of 95% ($U=2Uc(y)$): 4.01dB
Radiated Emission Measurement (1-18GHz)
Measuring Uncertainty for a Level of Confidence of 95% ($U=2Uc(y)$): 4.97dB
Radiated Emission Measurement (18-40GHz)
Measuring Uncertainty for a Level of Confidence of 95% ($U=2Uc(y)$): 5.32dB
Spurious Emissions, Conducted
Measuring Uncertainty for a Level of Confidence of 95% ($U=2Uc(y)$): 30MHz-1GHz: 1.00 dB 1GHz-12.75GHz: 1.30 dB
Output Power
Measuring Uncertainty for a Level of Confidence of 95% ($U=2Uc(y)$): 0.60dB
Power Spectrum Density
Measuring Uncertainty for a Level of Confidence of 95% ($U=2Uc(y)$): 0.80dB
Occupied Bandwidth
Measuring Uncertainty for a Level of Confidence of 95% ($U=2Uc(y)$): 0.20MHz
Frequency Stability
Measuring Uncertainty for a Level of Confidence of 95% ($U=2Uc(y)$): 0.1×10^{-6} MHz

7. Test Result

7.1. Summary

FCC Part Section(s)	Test Description	Test Limit	Test Condition	Test Result	Reference
15.247(a)(2)	6dB Bandwidth	$\geq 500\text{kHz}$	Conducted	Pass	Section 7.2
15.247(b)(3)	Output Power	$\leq 30\text{dBm}$		Pass	Section 7.3
15.247(e)	Power Spectral Density	$\leq 8\text{dBm}/3\text{kHz}$		Pass	Section 7.4
15.247(d)	Band Edge	$\geq 20\text{dBc}$		Pass	Section 7.5
15.247(d)	Out-of-Band Emissions	$\geq 20\text{dBc}$		Pass	Section 7.5
15.205 15.209	General Field Strength Limits (Restricted Bands and Radiated Emission Limits)	Emissions in restricted bands must meet the radiated limits detailed in 15.209	Radiated	Pass	Section 7.6&7.7
15.207	AC Conducted Emissions 150kHz - 30MHz	< FCC 15.207 limits	Line Conducted	NA	Section 7.8

Notes:

- 1) All modes of operation and data rates were investigated. For radiated emission test, every axis (X, Y, Z) was also verified. The test results shown in the following sections represent the worst case emissions.
- 2) The analyzer plots shown in this section were all taken with a correction table loaded into the analyzer. The correction table was used to account for the losses of the cables and attenuators used as part of the system to connect the EUT to the analyzer at all frequencies of interest.
- 3) All antenna port conducted emissions testing was performed on a test bench with the antenna port of the EUT connected to the spectrum analyzer through calibrated cables and attenuators.

7.2. 6dB Bandwidth Measurement

7.2.1. Test Limit

The minimum permissible 6dB bandwidth is 500 kHz.

7.2.2. Test Procedure used

ANSI C63.10-2013 Section 11.8.2 Option 1

KDB 558074 D01 v05r02 – Section 8.2

7.2.3. Test Setting

1. Set RBW = 100 kHz
2. VBW $\geq 3 \times$ RBW
3. Detector = peak
4. Trace mode = max hold
5. Sweep = auto couple
6. Allow the trace was allowed to stabilize
7. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

7.2.4. Test Setup



7.2.5. Test Result

Temperature:	27.6 °C
Relative Humidity:	42 %
ATM Pressure:	100.8 kPa
Test Data:	2025-09-06
Test Engineer:	Stone Zhang

Test Mode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit [MHz]	99% BW[MHz]	Verdict
BLE_1M	Ant1	2402	0.680	2401.632	2402.312	≥0.5	1.0913	PASS
		2440	0.676	2439.632	2440.308	≥0.5	1.0390	PASS
		2480	0.676	2479.632	2480.308	≥0.5	1.0417	PASS

Test Graphs



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480



7.3. Output Power Measurement

7.3.1. Test Limit

The maximum permissible conducted output power is 1 Watt (30dBm). And for antenna gain greater than 6dBi the limit shall reduce by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

7.3.2. Test Procedure Used

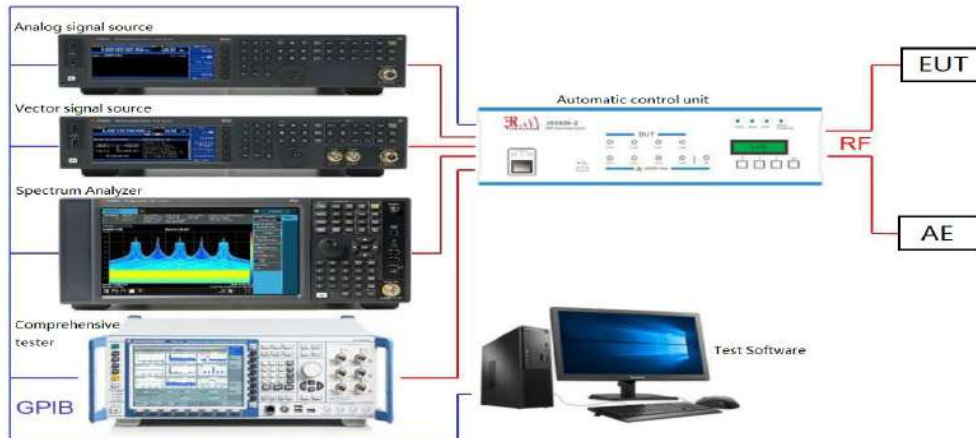
ANSI C63.10-2013 – Section 11.9.1.1

KDB 558074 D01 v05r02 – Section 8.3.1.2

7.3.3. Test Setting

- 1.Set the RBW $\geq$ DTS bandwidth.
- 2.Set the VBW $\geq$ $[3 \times \text{RBW}]$.
- 3.Set the span $\geq$ $[3 \times \text{RBW}]$.
- 4.Detector = peak.
- 5.Sweep time = auto couple.
- 6.Trace mode = max hold.
- 7.Allow trace to fully stabilize.
8. Use peak marker function to determine the peak amplitude level.

7.3.4. Test Setup



7.3.5. Test Result

Temperature:	27.6 °C
Relative Humidity:	42 %
ATM Pressure:	100.8 kPa
Test Data:	2025-09-06
Test Engineer:	Stone Zhang

Test Mode	Antenna	Frequency (MHz)	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	2402	7.50	≤30	PASS
		2440	7.18	≤30	PASS
		2480	6.22	≤30	PASS

Test Graphs

BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480



7.4. Power Spectral Density Measurement

7.4.1. Test Limit

The maximum permissible power spectral density is 8dBm in any 3 kHz band. And for antenna gain greater than 6dBi the limit shall reduce by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

7.4.2. Test Procedure Used

KDB 558074 D01 v05r02 - Section 8.4

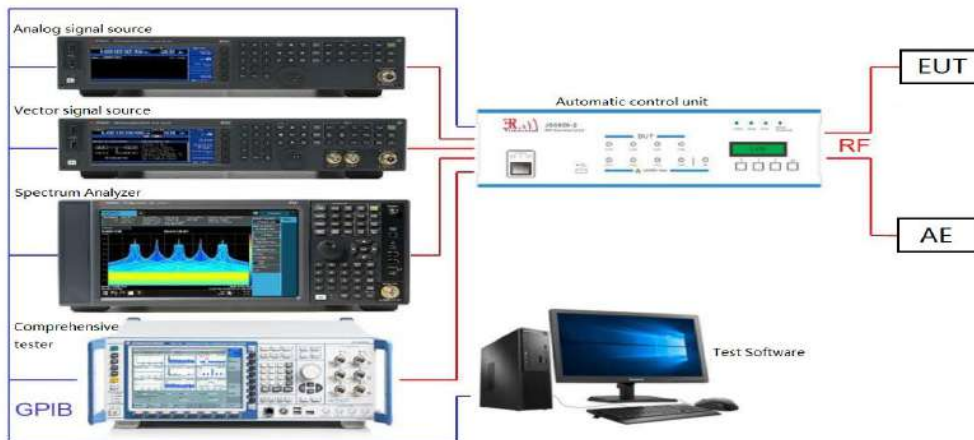
ANSI C63.10 – Section 11.10.2

7.4.3. Test Setting

1. Set analyzer center frequency to DTS channel center frequency.
2. Set the span to 1.5 times the DTS bandwidth.
3. Set the RBW to $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$.
4. Set the VBW $\geq [3 \times \text{RBW}]$.
5. Detector = peak.
6. Sweep time = auto couple.
7. Trace mode = max hold.
8. Allow trace to fully stabilize.



7.4.4. Test Setup



7.4.5. Test Result

Temperature:	27.6 °C
Relative Humidity:	42 %
ATM Pressure:	100.8 kPa
Test Data:	2025-09-06
Test Engineer:	Stone Zhang

Test Mode	Antenna	Frequency (MHz)	Result [dBm/3kHz]	Limit [dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-7.66	≤8.00	PASS
		2440	-8.08	≤8.00	PASS
		2480	-9.22	≤8.00	PASS

Test Graphs

BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480



7.5. Conducted Band Edge and Out-of-Band Emissions

7.5.1. Test Limit

The limit for out-of-band spurious emissions at the band edge is 20dB below the fundamental emission level, as determined from the in-band power measurement of the DTS channel performed in a 100 kHz bandwidth per the PSD procedure.

7.5.2. Test Procedure Used

KDB 558074 D01 v05r02 - Section 8.5 & Section 8.6

ANSI C63.10 – Section 11.11&11.12

7.5.3. Test Setting

- (a) Set the center frequency and span to encompass frequency range to be measured
- (b) RBW = 100kHz
- (c) VBW = 300kHz
- (d) Detector = Peak
- (e) Trace mode = max hold
- (f) Sweep time = auto couple
- (g) The trace was allowed to stabilize

7.5.4. Test Setup



7.5.5. Test Result

Temperature:	27.6 °C
Relative Humidity:	42 %
ATM Pressure:	100.8 kPa
Test Data:	2025-09-06
Test Engineer:	Stone Zhang

Band edge

Test Mode	Antenna	ChName	Frequency (MHz)	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	Low	2402	6.79	-43.69	≤-13.21	PASS
		High	2480	5.33	-49.06	≤-14.67	PASS

Conducted Spurious Emission

Test Mode	Antenna	Frequency (MHz)	Frequency Range [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	2402	Reference	6.68	6.68	---	PASS
			30~1000	6.68	-40.6	≤-13.32	PASS
			1000~26500	6.68	-26.45	≤-13.32	PASS
		2440	Reference	6.34	6.34	---	PASS
			30~1000	6.34	-40.28	≤-13.66	PASS
			1000~26500	6.34	-29.24	≤-13.66	PASS
		2480	Reference	5.33	5.33	---	PASS
			30~1000	5.33	-40.74	≤-14.67	PASS
			1000~26500	5.33	-31.96	≤-14.67	PASS

Test Graphs of Band Edge

BLE_1M_Ant1_Low_2402



BLE_1M_Ant1_High_2480



Test Graphs of Out-of-Band Emissions

BLE_1M_Ant1_2402_0~Reference



BLE_1M_Ant1_2402_30~1000



BLE_1M_Ant1_2402_1000~26500



BLE_1M_Ant1_2440_0~Reference



BLE_1M_Ant1_2440_30~1000



BLE_1M_Ant1_2440_1000~26500



BLE_1M_Ant1_2480_0~Reference



BLE_1M_Ant1_2480_30~1000



BLE_1M_Ant1_2480_1000~26500



7.6. Radiated Spurious Emission Measurement

7.6.1. Test Limit

All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47 CFR must not exceed the limits shown in Table per Section 15.209.

FCC Part 15 Subpart C Paragraph 15.209		
Frequency [MHz]	Field Strength [uV/m]	Measured Distance [Meters]
0.009 – 0.490	2400/F (kHz)	300
0.490 – 1.705	24000/F (kHz)	30
1.705 - 30	30	30
30 - 88	100	3
88 - 216	150	3
216 - 960	200	3
Above 960	500	3

7.6.2. Test Procedure Used

ANSI C63.10-2013 – Section 6.6.4.3

7.6.3. Test Setting

Peak Field Strength Measurements

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = as specified in Table 1
3. VBW = 3MHz
4. Detector = peak
5. Sweep time = auto couple
6. Trace mode = max hold

- Trace was allowed to stabilize

Table 1 - RBW as a function of frequency

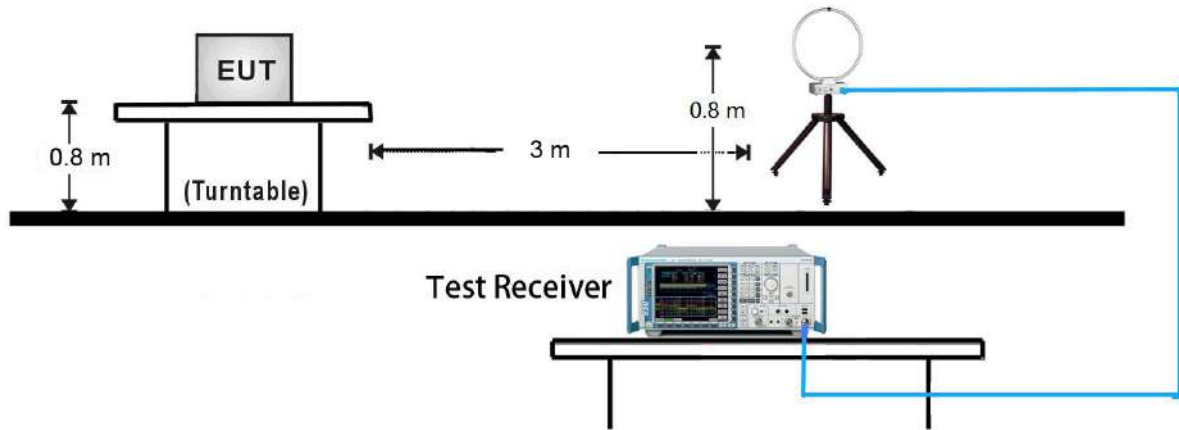
Frequency	RBW
9 ~ 150 kHz	200 ~ 300 Hz
0.15 ~ 30 MHz	9 ~ 10 kHz
30 ~ 1000 MHz	100 ~ 120 kHz
> 1000 MHz	1 MHz

Average Field Strength Measurements

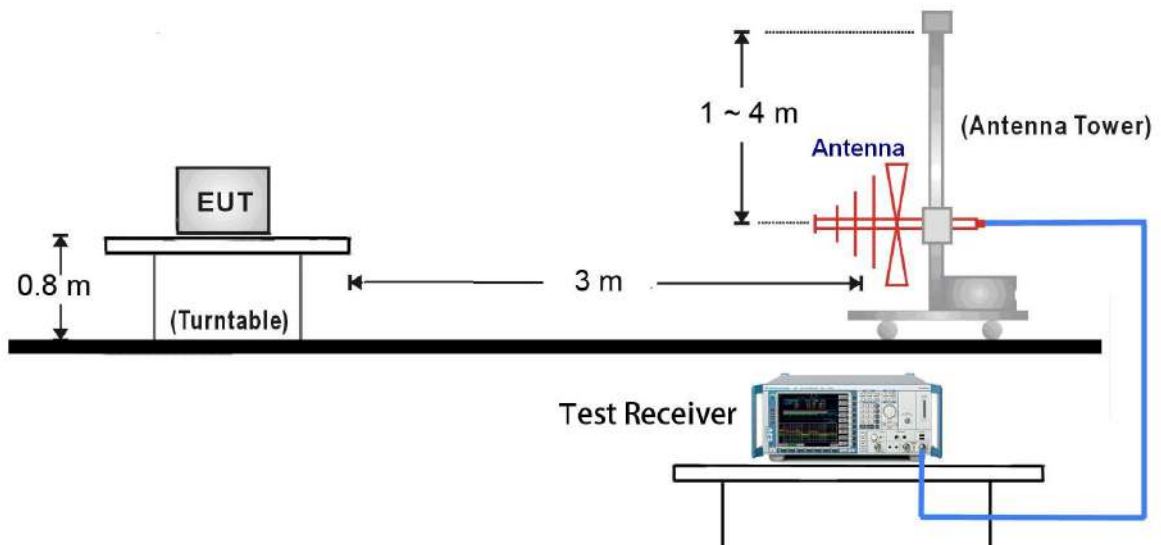
- Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
- RBW = 1MHz
- VBW = 3MHz
- Detector = Power Average (RMS)
- Number of sweep point = 2001 (Number of sweep points must be $\geq 2 \times \text{span} / \text{RBW}$)
- Sweep time = auto
- Trace (RMS) averaging was performed over at least 100 traces.

7.6.4. Test Setup

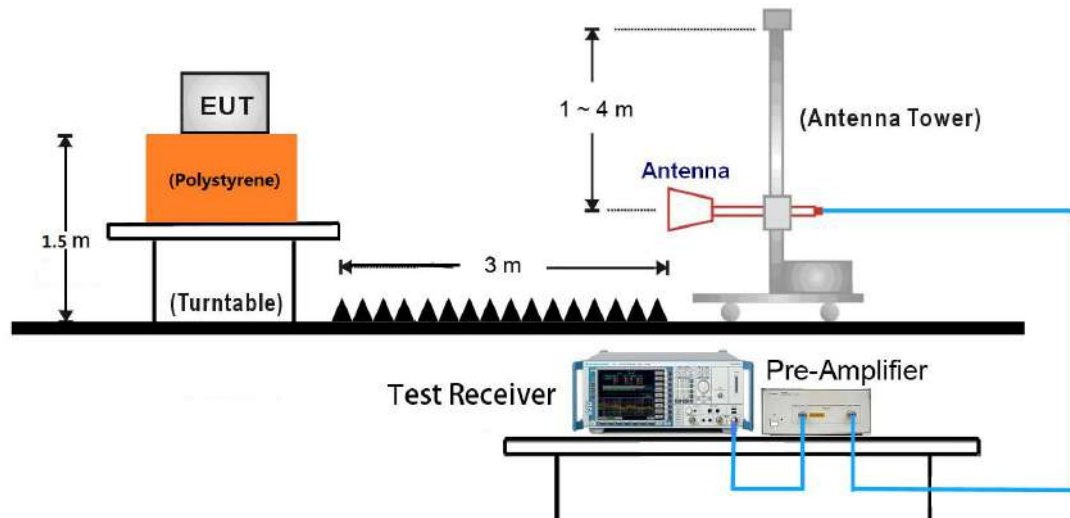
9kHz ~ 30MHz Test Setup:



30MHz ~ 1GHz Test Setup:



1GHz ~ 26.5GHz Test Setup:

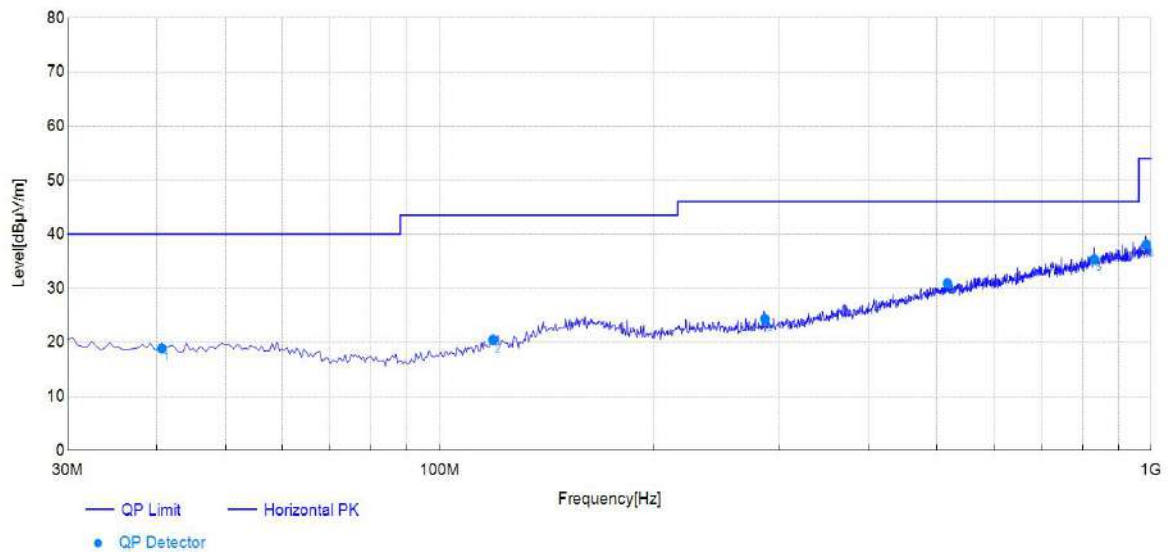


7.6.5. Test Result

The worst case of Radiated Emission below 1GHz:

30MHz – 1GHz Test Data

EUT:	GPS Tracker	Polarity:	Horizontal
Model:	GL850CNA	Test Date:	2025-09-10
Mode:	Transmit at BLE Channel 00	Voltage:	DC 12V
Environment:	Temp: 22.6°C; Humi:55%	Engineer:	Stone Zhang



Final Data List

NO.	Frequency [MHz]	Factor [dB/m]	QP Reading [dBμV]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Pol	Verdict
1	40.68	13.02	5.86	18.88	40.00	21.12	150	262	Horizontal	PASS
2	118.80	14.24	6.21	20.45	43.50	23.05	150	217	Horizontal	PASS
3	286.21	16.47	7.86	24.33	46.00	21.67	100	304	Horizontal	PASS
4	516.70	22.41	8.49	30.90	46.00	15.10	150	171	Horizontal	PASS
5	831.14	27.26	8.13	35.39	46.00	10.61	100	189	Horizontal	PASS
6	983.99	29.01	9.05	38.06	54.00	15.94	100	189	Horizontal	PASS

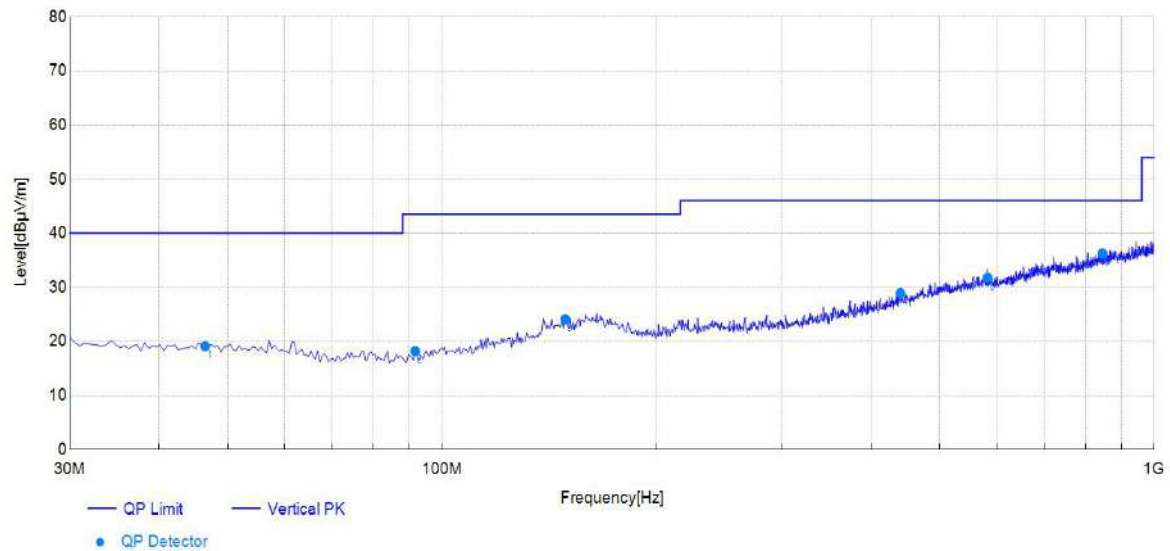
Note:

(1) Level=Reading + Factor

(2) Margin=Limit-Level

(3) The test trace is same as the ambient noise and the amplitude of the emissions are attenuated more than 20dB below the permissible (the test frequency range: 9kHz ~ 30MHz, 18GHz ~ 25GHz), therefore no data appear in the report.

EUT:	GPS Tracker	Polarity:	Vertical
Model:	GL850CNA	Test Date:	2025-09-10
Mode:	Transmit at BLE Channel 00	Voltage:	DC 12V
Environment:	Temp: 22.6°C; Humi:55%	Engineer:	Stone Zhang



Final Data List										
NO.	Frequency [MHz]	Factor [dB/m]	QP Reading [dBμV]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Pol	Verdict
1	46.50	13.23	5.87	19.10	40.00	20.90	100	162	Vertical	PASS
2	91.63	11.24	6.95	18.19	43.50	25.31	100	269	Vertical	PASS
3	148.88	17.05	7.03	24.08	43.50	19.42	100	116	Vertical	PASS
4	440.03	20.49	8.42	28.91	46.00	17.09	150	0	Vertical	PASS
5	583.18	23.20	8.57	31.77	46.00	14.23	150	165	Vertical	PASS
6	844.72	27.28	8.96	36.24	46.00	9.76	100	204	Vertical	PASS

Note:

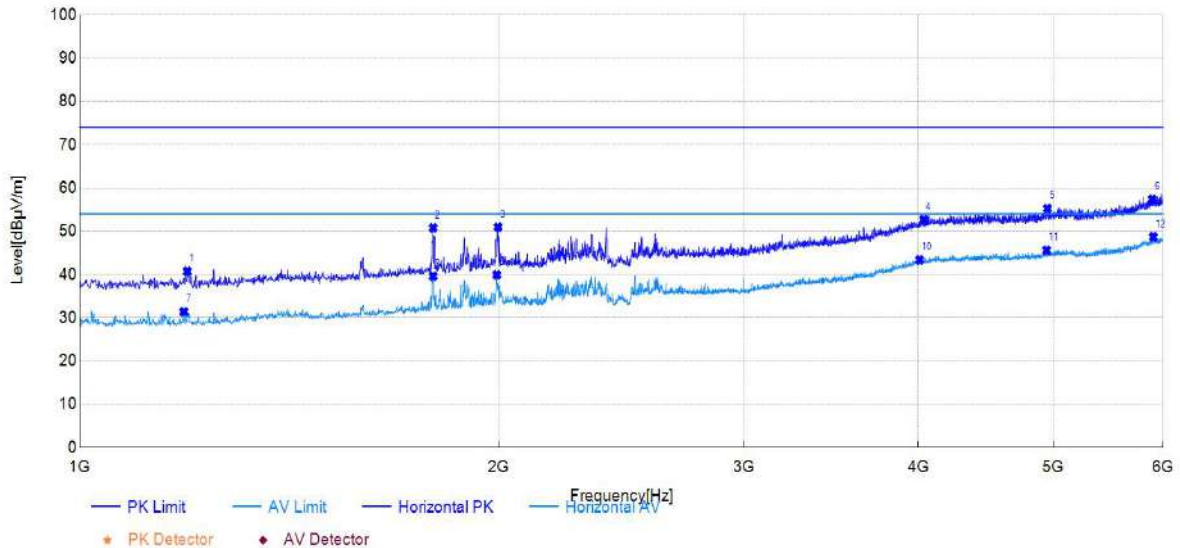
(1) Level=Reading + Factor

(2) Margin=Limit-Level

(3) The test trace is same as the ambient noise and the amplitude of the emissions are attenuated more than 20dB below the permissible (the test frequency range: 9kHz ~ 30MHz, 18GHz ~ 25GHz), therefore no data appear in the report.

1GHz-6GHz

Test Mode:	BLE	Test Date:	2025-09-24
Test Channel:	00	Test Engineer:	Stone Zhang



Suspected Data List

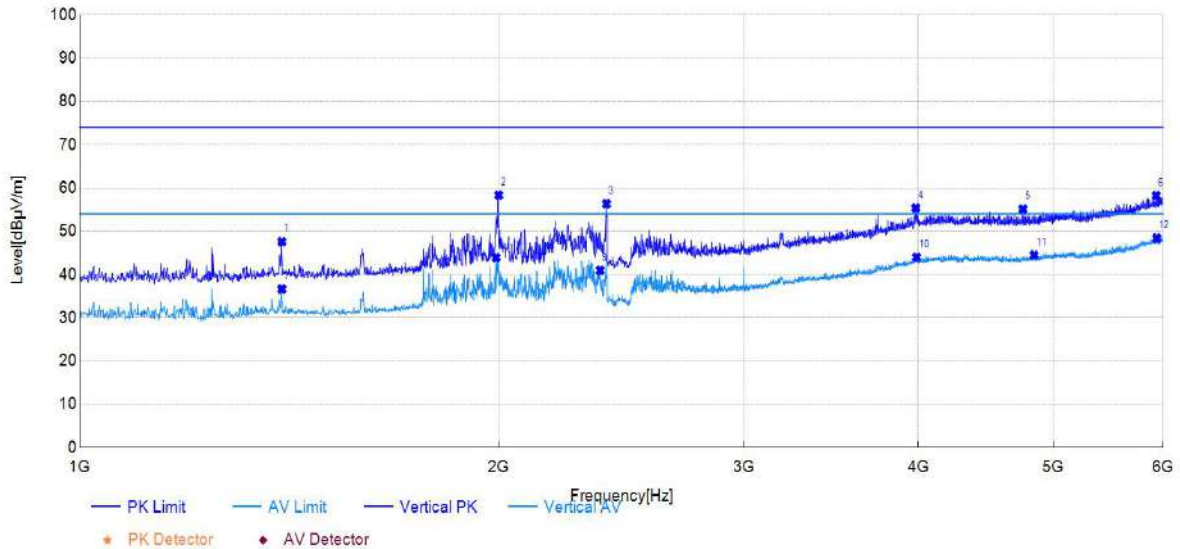
NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	1195.00	64.19	40.72	-23.47	74.00	33.28	150	127	PK	Horizontal	PASS
2	1794.00	70.30	50.76	-19.54	74.00	23.24	150	82	PK	Horizontal	PASS
3	1997.00	69.14	50.95	-18.19	74.00	23.05	150	1	PK	Horizontal	PASS
4	4037.00	61.06	52.66	-8.40	74.00	21.34	150	138	PK	Horizontal	PASS
5	4953.00	61.52	55.28	-6.24	74.00	18.72	150	283	PK	Horizontal	PASS
6	5891.00	62.45	57.36	-5.09	74.00	16.64	150	0	PK	Horizontal	PASS
7	1188.00	54.88	31.38	-23.50	54.00	22.62	150	350	AV	Horizontal	PASS
8	1794.00	59.14	39.60	-19.54	54.00	14.40	150	82	AV	Horizontal	PASS
9	1993.00	58.15	39.93	-18.22	54.00	14.07	150	97	AV	Horizontal	PASS
10	4009.00	51.92	43.39	-8.53	54.00	10.61	150	56	AV	Horizontal	PASS
11	4946.00	51.86	45.58	-6.28	54.00	8.42	150	1	AV	Horizontal	PASS
12	5901.00	53.75	48.68	-5.07	54.00	5.32	150	208	AV	Horizontal	PASS

Note:

(1) Level=Reading + Factor

(2) Margin=Limit-Level

Test Mode:	BLE	Test Date:	2025-09-24
Test Channel:	00	Test Engineer:	Stone Zhang



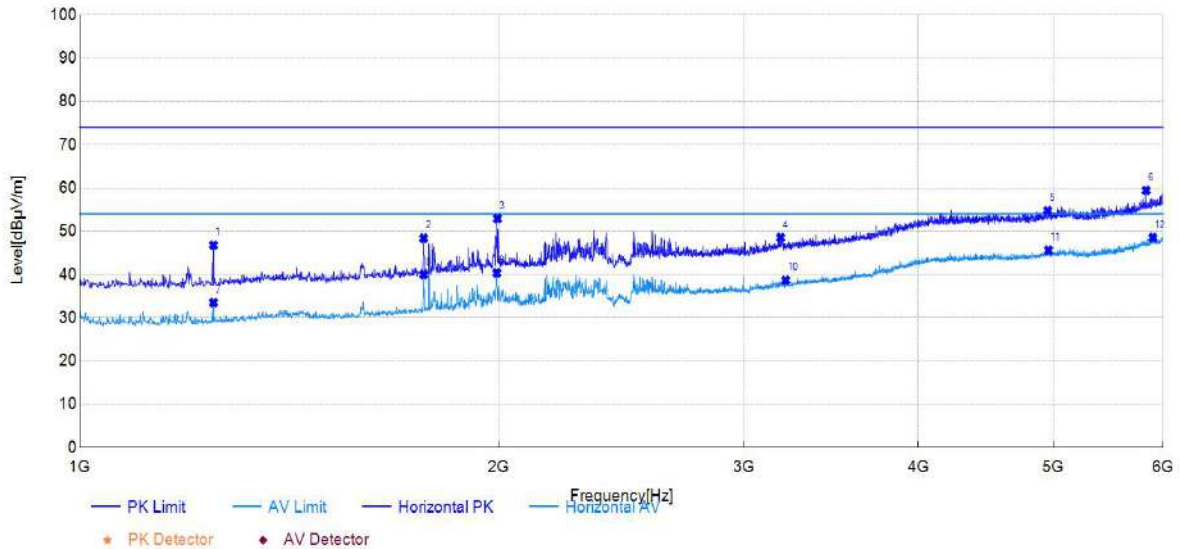
Suspected Data List											
NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	1397.00	68.94	47.59	-21.35	74.00	26.41	150	99	PK	Vertical	PASS
2	1999.00	76.09	58.32	-17.77	74.00	15.68	150	103	PK	Vertical	PASS
3	2389.00	72.82	56.32	-16.50	74.00	17.68	150	51	PK	Vertical	PASS
4	3985.00	63.75	55.38	-8.37	74.00	18.62	150	111	PK	Vertical	PASS
5	4756.00	62.52	55.12	-7.40	74.00	18.88	150	95	PK	Vertical	PASS
6	5928.00	63.33	58.22	-5.11	74.00	15.78	150	221	PK	Vertical	PASS
7	1397.00	57.98	36.63	-21.35	54.00	17.37	150	78	AV	Vertical	PASS
8	1991.00	61.75	43.91	-17.84	54.00	10.09	150	85	AV	Vertical	PASS
9	2365.00	57.55	40.95	-16.60	54.00	13.05	150	290	AV	Vertical	PASS
10	3990.00	52.34	44.00	-8.34	54.00	10.00	150	270	AV	Vertical	PASS
11	4845.00	51.74	44.50	-7.24	54.00	9.50	150	59	AV	Vertical	PASS
12	5934.00	53.51	48.41	-5.10	54.00	5.59	150	189	AV	Vertical	PASS

Note:

(1) Level=Reading + Factor

(2) Margin=Limit-Level

Test Mode:	BLE	Test Date:	2025-09-24
Test Channel:	19	Test Engineer:	Stone Zhang



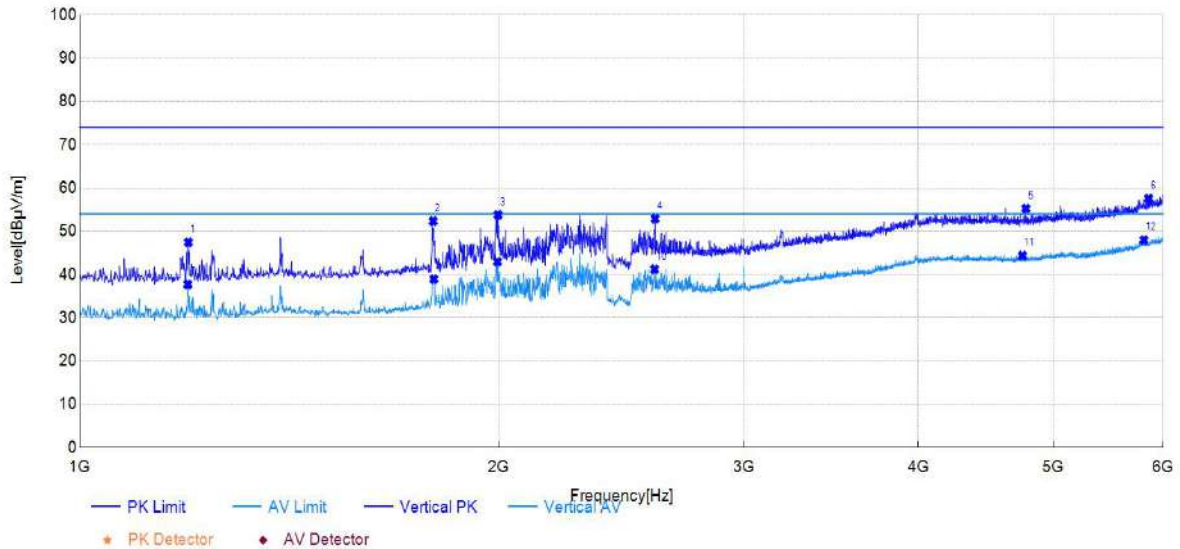
Suspected Data List											
NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	1248.00	69.93	46.75	-23.18	74.00	27.25	150	93	PK	Horizontal	PASS
2	1766.00	68.15	48.38	-19.77	74.00	25.62	150	349	PK	Horizontal	PASS
3	1995.00	71.13	52.93	-18.20	74.00	21.07	150	89	PK	Horizontal	PASS
4	3187.00	62.20	48.54	-13.66	74.00	25.46	150	27	PK	Horizontal	PASS
5	4955.00	61.00	54.76	-6.24	74.00	19.24	150	45	PK	Horizontal	PASS
6	5830.00	64.66	59.44	-5.22	74.00	14.56	150	238	PK	Horizontal	PASS
7	1248.00	56.67	33.49	-23.18	54.00	20.51	150	93	AV	Horizontal	PASS
8	1766.00	59.77	40.00	-19.77	54.00	14.00	150	349	AV	Horizontal	PASS
9	1993.00	58.56	40.34	-18.22	54.00	13.66	150	174	AV	Horizontal	PASS
10	3213.00	52.19	38.65	-13.54	54.00	15.35	150	204	AV	Horizontal	PASS
11	4961.00	51.81	45.60	-6.21	54.00	8.40	150	268	AV	Horizontal	PASS
12	5896.00	53.60	48.52	-5.08	54.00	5.48	150	353	AV	Horizontal	PASS

Note:

(1) Level=Reading + Factor

(2) Margin=Limit-Level

Test Mode:	BLE	Test Date:	2025-09-24
Test Channel:	19	Test Engineer:	Stone Zhang



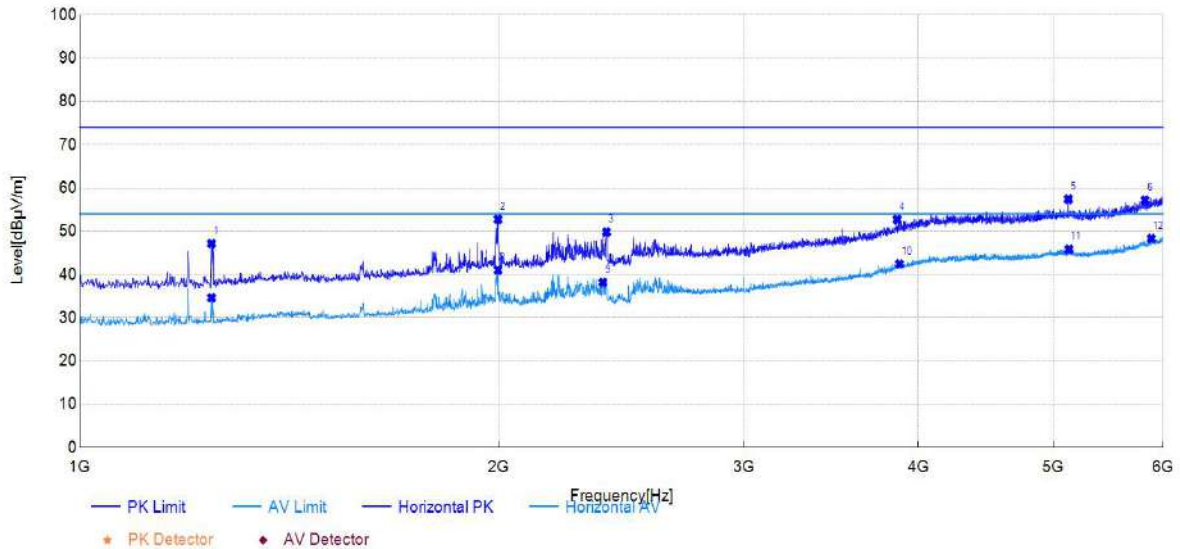
Suspected Data List											
NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	1197.00	69.92	47.44	-22.48	74.00	26.56	150	125	PK	Vertical	PASS
2	1794.00	71.32	52.35	-18.97	74.00	21.65	150	82	PK	Vertical	PASS
3	1997.00	71.58	53.79	-17.79	74.00	20.21	150	104	PK	Vertical	PASS
4	2590.00	68.65	52.88	-15.77	74.00	21.12	150	63	PK	Vertical	PASS
5	4780.00	62.62	55.26	-7.36	74.00	18.74	150	260	PK	Vertical	PASS
6	5855.00	62.79	57.55	-5.24	74.00	16.45	150	111	PK	Vertical	PASS
7	1196.00	60.18	37.69	-22.49	54.00	16.31	150	111	AV	Vertical	PASS
8	1796.00	57.87	38.92	-18.95	54.00	15.08	150	256	AV	Vertical	PASS
9	1995.00	60.74	42.94	-17.80	54.00	11.06	150	104	AV	Vertical	PASS
10	2588.00	56.98	41.20	-15.78	54.00	12.80	150	77	AV	Vertical	PASS
11	4752.00	51.80	44.39	-7.41	54.00	9.61	150	111	AV	Vertical	PASS
12	5810.00	53.29	47.97	-5.32	54.00	6.03	150	178	AV	Vertical	PASS

Note:

(1) Level=Reading + Factor

(2) Margin=Limit-Level

Test Mode:	BLE	Test Date:	2025-09-24
Test Channel:	39	Test Engineer:	Stone Zhang



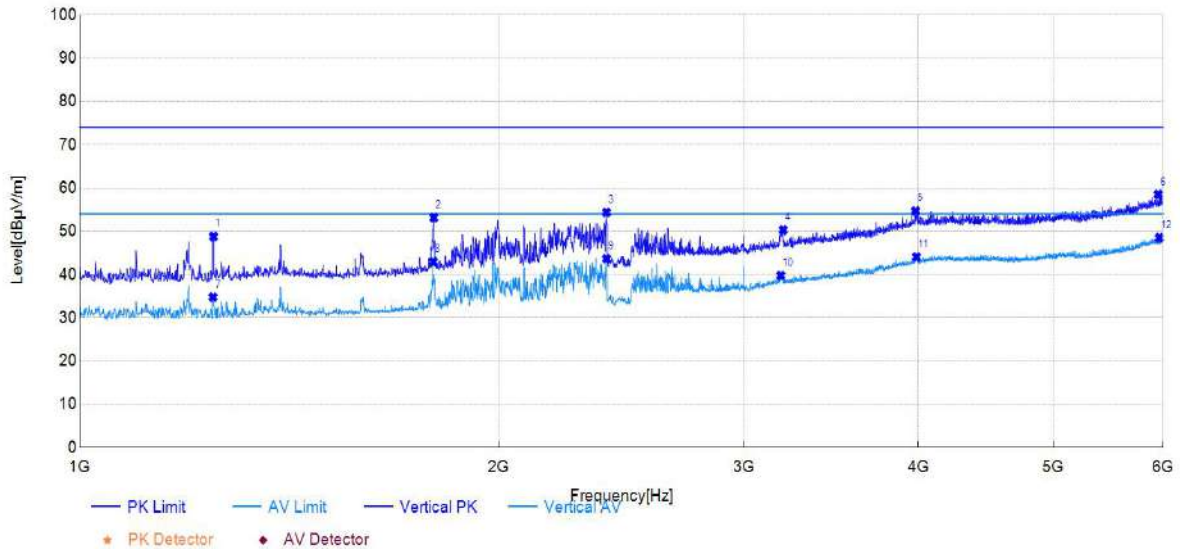
Suspected Data List											
NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	1244.00	70.35	47.14	-23.21	74.00	26.86	150	86	PK	Horizontal	PASS
2	1997.00	70.95	52.76	-18.19	74.00	21.24	150	86	PK	Horizontal	PASS
3	2389.00	66.16	49.80	-16.36	74.00	24.20	150	52	PK	Horizontal	PASS
4	3863.00	62.32	52.72	-9.60	74.00	21.28	150	267	PK	Horizontal	PASS
5	5128.00	63.52	57.40	-6.12	74.00	16.60	150	86	PK	Horizontal	PASS
6	5820.00	62.39	57.16	-5.23	74.00	16.84	150	263	PK	Horizontal	PASS
7	1244.00	57.81	34.60	-23.21	54.00	19.40	150	86	AV	Horizontal	PASS
8	1997.00	59.20	41.01	-18.19	54.00	12.99	150	86	AV	Horizontal	PASS
9	2375.00	54.57	38.13	-16.44	54.00	15.87	150	157	AV	Horizontal	PASS
10	3879.00	51.88	42.42	-9.46	54.00	11.58	150	22	AV	Horizontal	PASS
11	5133.00	51.93	45.80	-6.13	54.00	8.20	150	349	AV	Horizontal	PASS
12	5882.00	53.43	48.33	-5.10	54.00	5.67	150	320	AV	Horizontal	PASS

Note:

(1) Level=Reading + Factor

(2) Margin=Limit-Level

Test Mode:	BLE	Test Date:	2025-09-24
Test Channel:	39	Test Engineer:	Stone Zhang



Suspected Data List											
NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	1248.00	71.01	48.78	-22.23	74.00	25.22	150	54	PK	Vertical	PASS
2	1796.00	72.10	53.15	-18.95	74.00	20.85	150	256	PK	Vertical	PASS
3	2389.00	70.83	54.33	-16.50	74.00	19.67	150	122	PK	Vertical	PASS
4	3200.00	63.43	50.27	-13.16	74.00	23.73	150	84	PK	Vertical	PASS
5	3983.00	63.05	54.68	-8.37	74.00	19.32	150	100	PK	Vertical	PASS
6	5950.00	63.59	58.51	-5.08	74.00	15.49	150	167	PK	Vertical	PASS
7	1247.00	56.98	34.75	-22.23	54.00	19.25	150	51	AV	Vertical	PASS
8	1794.00	61.90	42.93	-18.97	54.00	11.07	150	88	AV	Vertical	PASS
9	2389.00	60.16	43.66	-16.50	54.00	10.34	150	122	AV	Vertical	PASS
10	3188.00	53.02	39.79	-13.23	54.00	14.21	150	51	AV	Vertical	PASS
11	3989.00	52.43	44.08	-8.35	54.00	9.92	150	100	AV	Vertical	PASS
12	5960.00	53.56	48.50	-5.06	54.00	5.50	150	185	AV	Vertical	PASS

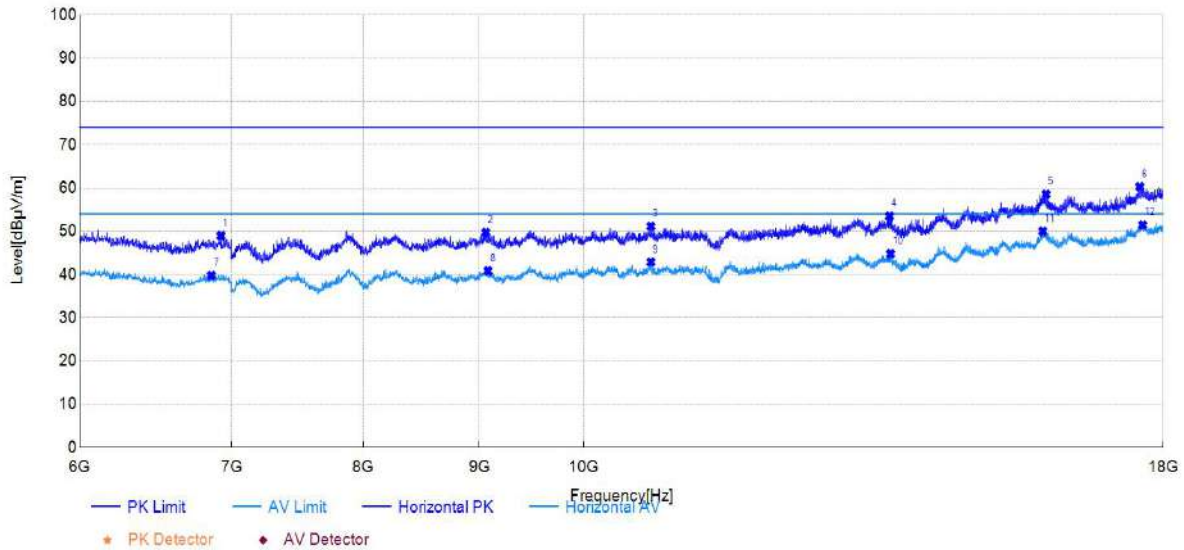
Note:

(1) Level=Reading + Factor

(2) Margin=Limit-Level

6GHz-18GHz

Test Mode:	BLE	Test Date:	2025-09-24
Test Channel:	00	Test Engineer:	Stone Zhang



Suspected Data List

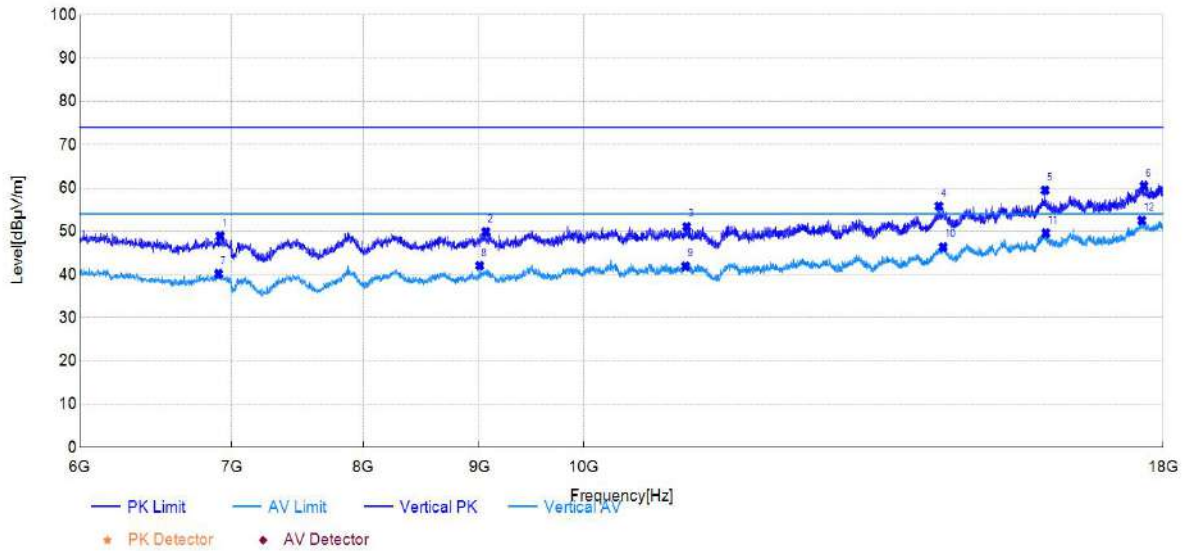
NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	6925.50	53.46	48.95	-4.51	74.00	25.05	150	360	PK	Horizontal	PASS
2	9057.00	50.47	49.69	-0.78	74.00	24.31	150	0	PK	Horizontal	PASS
3	10705.50	50.66	51.13	0.47	74.00	22.87	150	278	PK	Horizontal	PASS
4	13636.50	50.35	53.48	3.13	74.00	20.52	150	104	PK	Horizontal	PASS
5	15981.00	48.76	58.54	9.78	74.00	15.46	150	294	PK	Horizontal	PASS
6	17575.50	46.57	60.32	13.75	74.00	13.68	150	17	PK	Horizontal	PASS
7	6858.00	44.38	39.77	-4.61	54.00	14.23	150	22	AV	Horizontal	PASS
8	9076.50	41.58	40.81	-0.77	54.00	13.19	150	0	AV	Horizontal	PASS
9	10705.50	42.40	42.87	0.47	54.00	11.13	150	337	AV	Horizontal	PASS
10	13651.50	41.61	44.77	3.16	54.00	9.23	150	142	AV	Horizontal	PASS
11	15930.00	40.21	49.99	9.78	54.00	4.01	150	274	AV	Horizontal	PASS
12	17626.50	37.62	51.44	13.82	54.00	2.56	150	360	AV	Horizontal	PASS

Note:

(1) Level=Reading + Factor

(2) Margin=Limit-Level

Test Mode:	BLE	Test Date:	2025-09-24
Test Channel:	00	Test Engineer:	Stone Zhang



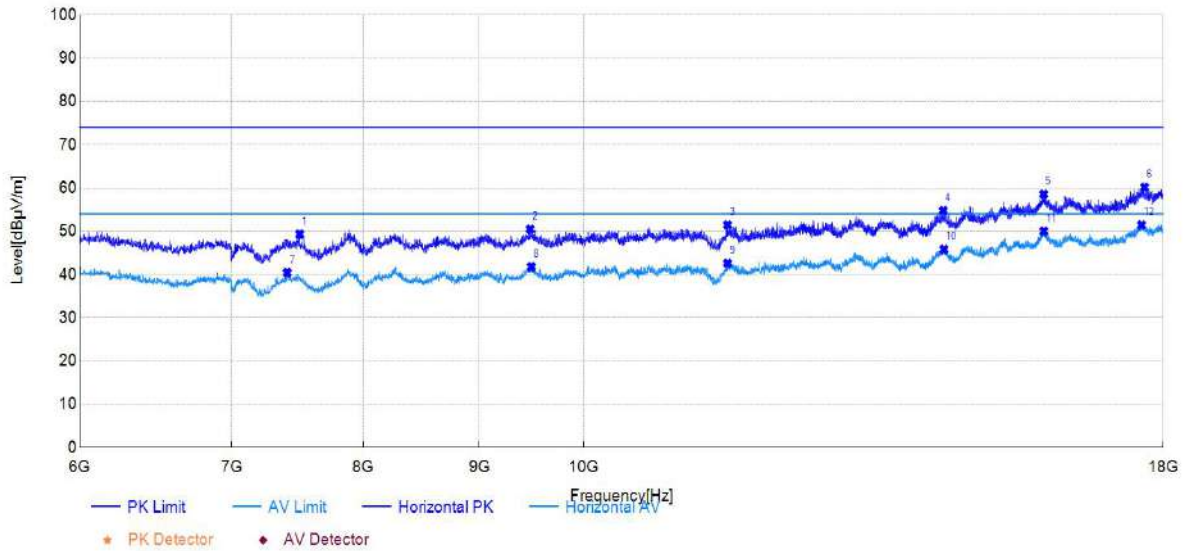
Suspected Data List											
NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	6919.50	53.33	48.90	-4.43	74.00	25.10	150	359	PK	Vertical	PASS
2	9057.00	50.63	49.85	-0.78	74.00	24.15	150	215	PK	Vertical	PASS
3	11101.50	50.22	51.04	0.82	74.00	22.96	150	63	PK	Vertical	PASS
4	14335.50	50.40	55.82	5.42	74.00	18.18	150	90	PK	Vertical	PASS
5	15966.00	50.19	59.48	9.29	74.00	14.52	150	132	PK	Vertical	PASS
6	17649.00	46.30	60.51	14.21	74.00	13.49	150	195	PK	Vertical	PASS
7	6907.50	44.54	40.17	-4.37	54.00	13.83	150	74	AV	Vertical	PASS
8	9000.00	42.80	42.02	-0.78	54.00	11.98	150	121	AV	Vertical	PASS
9	11089.50	41.03	41.91	0.88	54.00	12.09	150	156	AV	Vertical	PASS
10	14398.50	40.73	46.34	5.61	54.00	7.66	150	191	AV	Vertical	PASS
11	15976.50	40.29	49.57	9.28	54.00	4.43	150	309	AV	Vertical	PASS
12	17611.50	38.06	52.49	14.43	54.00	1.51	150	191	AV	Vertical	PASS

Note:

(1) Level=Reading + Factor

(2) Margin=Limit-Level

Test Mode:	BLE	Test Date:	2025-09-24
Test Channel:	19	Test Engineer:	Stone Zhang



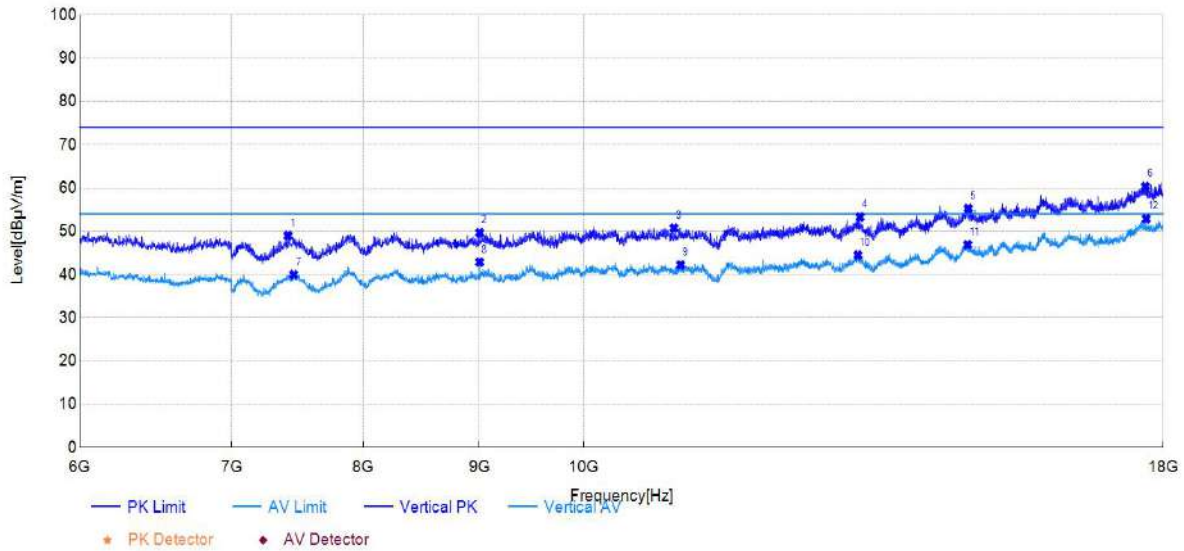
Suspected Data List											
NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	7500.00	52.33	49.31	-3.02	74.00	24.69	150	253	PK	Horizontal	PASS
2	9474.00	50.62	50.46	-0.16	74.00	23.54	150	30	PK	Horizontal	PASS
3	11572.50	50.53	51.46	0.93	74.00	22.54	150	106	PK	Horizontal	PASS
4	14400.00	49.60	54.77	5.17	74.00	19.23	150	360	PK	Horizontal	PASS
5	15943.50	48.77	58.55	9.78	74.00	15.45	150	0	PK	Horizontal	PASS
6	17659.50	46.57	60.19	13.62	74.00	13.81	150	38	PK	Horizontal	PASS
7	7405.50	43.15	40.40	-2.75	54.00	13.60	150	320	AV	Horizontal	PASS
8	9484.50	41.83	41.76	-0.07	54.00	12.24	150	10	AV	Horizontal	PASS
9	11572.50	41.65	42.58	0.93	54.00	11.42	150	151	AV	Horizontal	PASS
10	14410.50	40.69	45.78	5.09	54.00	8.22	150	349	AV	Horizontal	PASS
11	15946.50	40.21	49.99	9.78	54.00	4.01	150	300	AV	Horizontal	PASS
12	17607.00	37.52	51.46	13.94	54.00	2.54	150	265	AV	Horizontal	PASS

Note:

(1) Level=Reading + Factor

(2) Margin=Limit-Level

Test Mode:	BLE	Test Date:	2025-09-24
Test Channel:	19	Test Engineer:	Stone Zhang



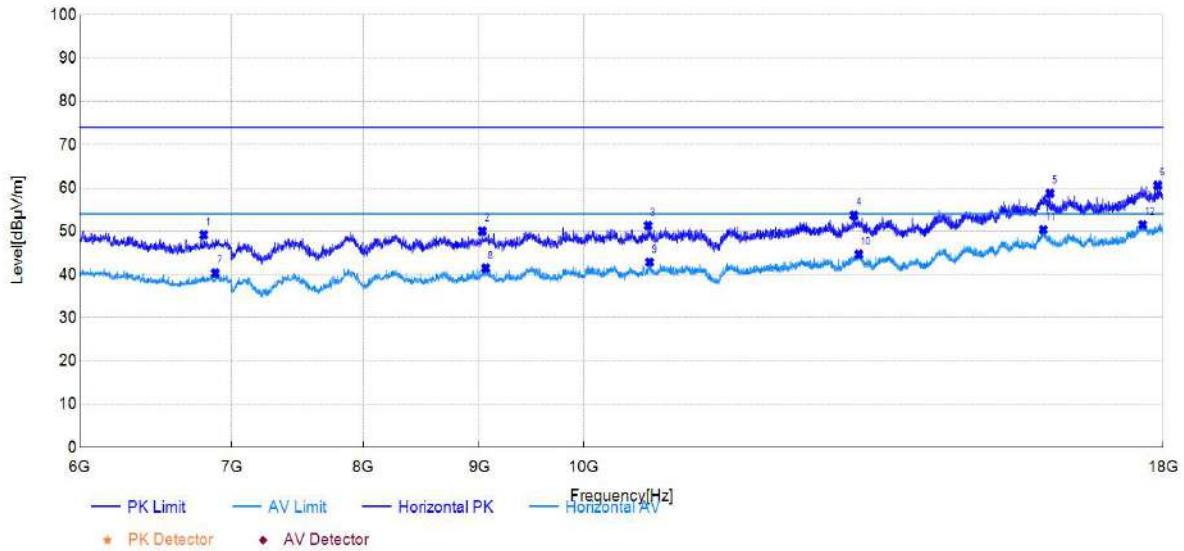
Suspected Data List											
NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	7411.50	51.74	48.97	-2.77	74.00	25.03	150	88	PK	Vertical	PASS
2	9000.00	50.41	49.63	-0.78	74.00	24.37	150	100	PK	Vertical	PASS
3	10960.50	49.45	50.74	1.29	74.00	23.26	150	62	PK	Vertical	PASS
4	13233.00	50.60	53.29	2.69	74.00	20.71	150	261	PK	Vertical	PASS
5	14767.50	49.64	55.26	5.62	74.00	18.74	150	226	PK	Vertical	PASS
6	17674.50	46.32	60.38	14.06	74.00	13.62	150	214	PK	Vertical	PASS
7	7455.00	42.85	39.96	-2.89	54.00	14.04	150	126	AV	Vertical	PASS
8	9000.00	43.63	42.85	-0.78	54.00	11.15	150	85	AV	Vertical	PASS
9	11035.50	41.00	42.20	1.20	54.00	11.80	150	107	AV	Vertical	PASS
10	13206.00	41.58	44.50	2.92	54.00	9.50	150	11	AV	Vertical	PASS
11	14758.50	41.26	46.88	5.62	54.00	7.12	150	230	AV	Vertical	PASS
12	17688.00	38.89	52.87	13.98	54.00	1.13	150	291	AV	Vertical	PASS

Note:

(1) Level=Reading + Factor

(2) Margin=Limit-Level

Test Mode:	BLE	Test Date:	2025-09-24
Test Channel:	39	Test Engineer:	Stone Zhang



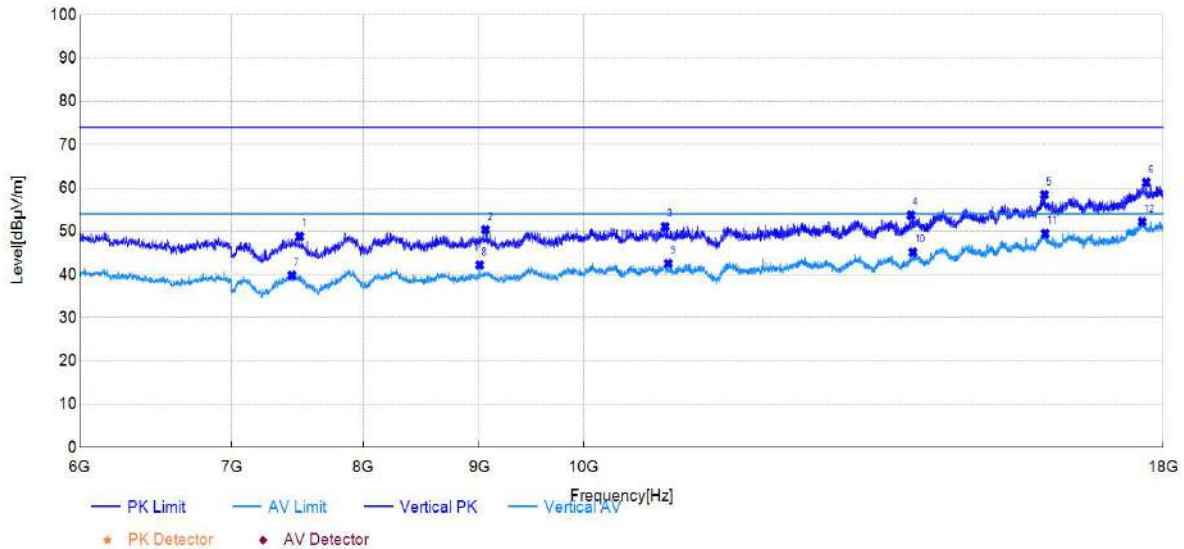
Suspected Data List											
NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	6805.50	54.03	49.15	-4.88	74.00	24.85	150	19	PK	Horizontal	PASS
2	9024.00	50.80	50.02	-0.78	74.00	23.98	150	55	PK	Horizontal	PASS
3	10677.00	50.78	51.31	0.53	74.00	22.69	150	111	PK	Horizontal	PASS
4	13153.50	50.50	53.68	3.18	74.00	20.32	150	224	PK	Horizontal	PASS
5	16045.50	49.71	58.76	9.05	74.00	15.24	150	305	PK	Horizontal	PASS
6	17898.00	46.20	60.61	14.41	74.00	13.39	150	354	PK	Horizontal	PASS
7	6885.00	44.76	40.29	-4.47	54.00	13.71	150	360	AV	Horizontal	PASS
8	9055.50	42.23	41.45	-0.78	54.00	12.55	150	127	AV	Horizontal	PASS
9	10692.00	42.33	42.82	0.49	54.00	11.18	150	108	AV	Horizontal	PASS
10	13216.50	41.35	44.66	3.31	54.00	9.34	150	185	AV	Horizontal	PASS
11	15937.50	40.55	50.33	9.78	54.00	3.67	150	239	AV	Horizontal	PASS
12	17626.50	37.69	51.51	13.82	54.00	2.49	150	321	AV	Horizontal	PASS

Note:

(1) Level=Reading + Factor

(2) Margin=Limit-Level

Test Mode:	BLE	Test Date:	2025-09-24
Test Channel:	39	Test Engineer:	Stone Zhang



Suspected Data List											
NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	7498.50	51.82	48.80	-3.02	74.00	25.20	150	324	PK	Vertical	PASS
2	9054.00	51.12	50.34	-0.78	74.00	23.66	150	360	PK	Vertical	PASS
3	10863.00	50.09	51.06	0.97	74.00	22.94	150	201	PK	Vertical	PASS
4	13935.00	49.70	53.70	4.00	74.00	20.30	150	360	PK	Vertical	PASS
5	15955.50	49.15	58.44	9.29	74.00	15.56	150	160	PK	Vertical	PASS
6	17689.50	47.31	61.28	13.97	74.00	12.72	150	251	PK	Vertical	PASS
7	7441.50	42.68	39.83	-2.85	54.00	14.17	150	22	AV	Vertical	PASS
8	9000.00	42.94	42.16	-0.78	54.00	11.84	150	84	AV	Vertical	PASS
9	10896.00	41.43	42.52	1.09	54.00	11.48	150	33	AV	Vertical	PASS
10	13962.00	41.23	45.14	3.91	54.00	8.86	150	359	AV	Vertical	PASS
11	15967.50	40.17	49.45	9.28	54.00	4.55	150	79	AV	Vertical	PASS
12	17619.00	37.82	52.21	14.39	54.00	1.79	150	37	AV	Vertical	PASS

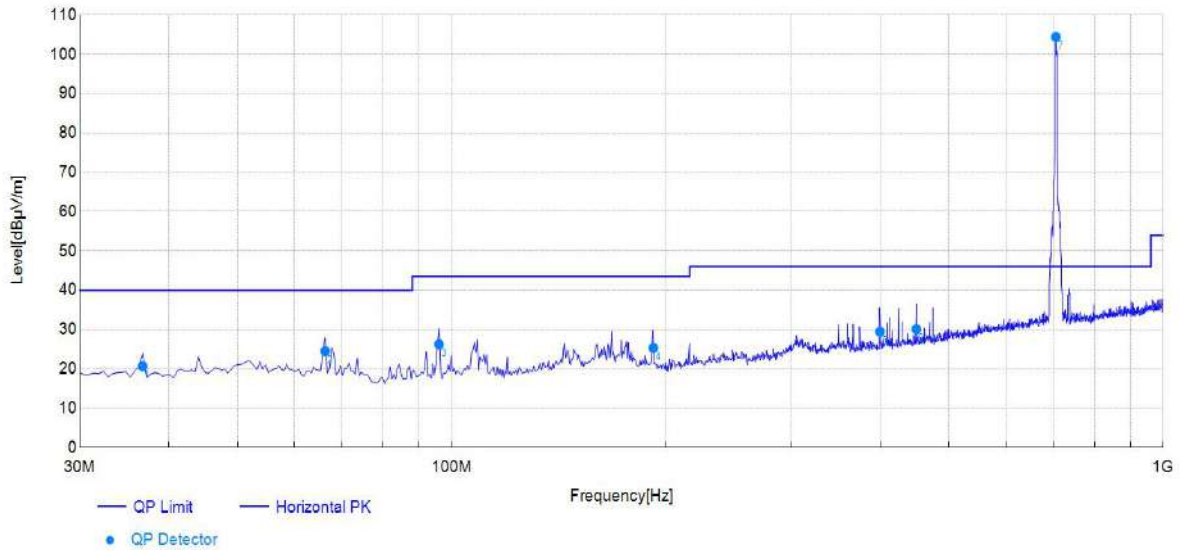
Note:

(1) Level=Reading + Factor

(2) Margin=Limit-Level

30MHz – 1GHz Test Data

EUT:	GPS Tracker	Polarity:	Horizontal
Model:	GL850CNA	Test Date:	2025-11-03
Mode:	Transmit at BLE + LTE Band12	Voltage:	DC 12V
Environment:	Temp: 23.7°C; Humi:51%	Engineer:	Stone Zhang



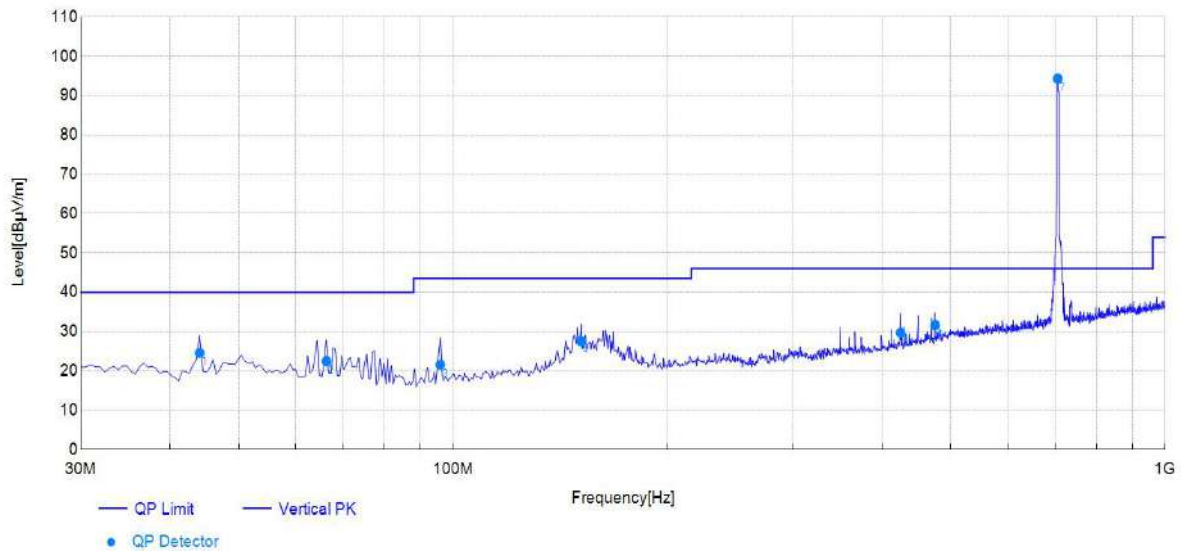
Final Data List

NO.	Frequency [MHz]	Factor [dB/m]	QP Reading [dBμV]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Pol	Verdict
1	36.79	12.99	7.65	20.64	40.00	19.36	150	13	Horizontal	PASS
2	66.39	13.19	11.32	24.51	40.00	15.49	150	201	Horizontal	PASS
3	95.99	11.95	14.29	26.24	43.50	17.26	150	188	Horizontal	PASS
4	192.07	14.75	10.57	25.32	43.50	18.18	150	82	Horizontal	PASS
5	399.75	19.14	10.29	29.43	46.00	16.57	150	111	Horizontal	PASS
6	449.73	20.21	9.87	30.08	46.00	15.92	150	109	Horizontal	PASS
7	705.94	24.96	79.45	104.41	/	/	150	243	Horizontal	PASS

Note:

- (1) Level=Reading + Factor
- (2) Margin=Limit-Level
- (3) The Mark7 is LTE Band12 fundamental.
- (4) The test trace is same as the ambient noise and the amplitude of the emissions are attenuated more than 20dB below the permissible (the test frequency range: 9kHz ~ 30MHz, 18GHz ~ 25GHz), therefore no data appear in the report.

EUT:	GPS Tracker	Polarity:	Vertical
Model:	GL850CNA	Test Date:	2025-11-03
Mode:	Transmit at BLE + LTE Band12	Voltage:	DC 12V
Environment:	Temp: 23.7°C; Humi:51%	Engineer:	Stone Zhang



Final Data List										
NO.	Frequency [MHz]	Factor [dB/m]	QP Reading [dBμV]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Pol	Verdict
1	44.07	13.14	11.43	24.57	40.00	15.43	150	340	Vertical	PASS
2	66.39	11.89	10.57	22.46	40.00	17.54	150	215	Vertical	PASS
3	95.99	11.81	9.79	21.60	43.50	21.90	150	123	Vertical	PASS
4	151.31	17.23	10.28	27.51	43.50	15.99	150	22	Vertical	PASS
5	424.99	20.05	9.65	29.70	46.00	16.30	150	41	Vertical	PASS
6	474.97	21.38	10.24	31.62	46.00	14.38	150	91	Vertical	PASS
7	705.94	24.91	69.42	94.33	/	/	150	67	Vertical	PASS

Note:

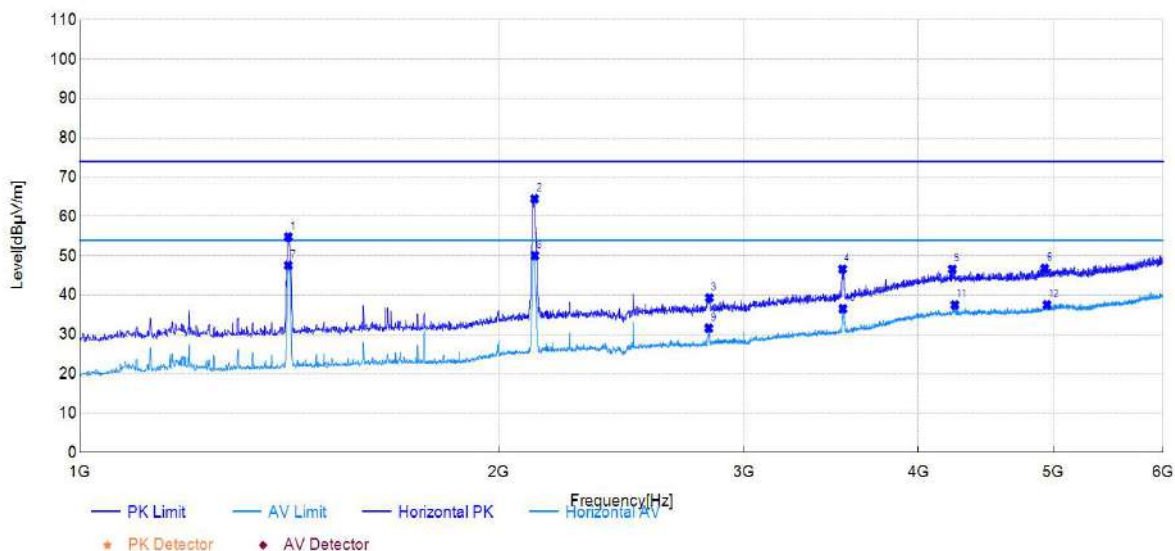
(1) Level=Reading + Factor

(2) Margin=Limit-Level

(3) The Mark7 is LTE Band12 fundamental.

(4) The test trace is same as the ambient noise and the amplitude of the emissions are attenuated more than 20dB below the permissible (the test frequency range: 9kHz ~ 30MHz, 18GHz ~ 25GHz), therefore no data appear in the report.

Test Mode:	Transmit at BLE + LTE Band12	Test Date:	2025-11-03
Test Channel:	00 + 23095	Test Engineer:	Stone Zhang



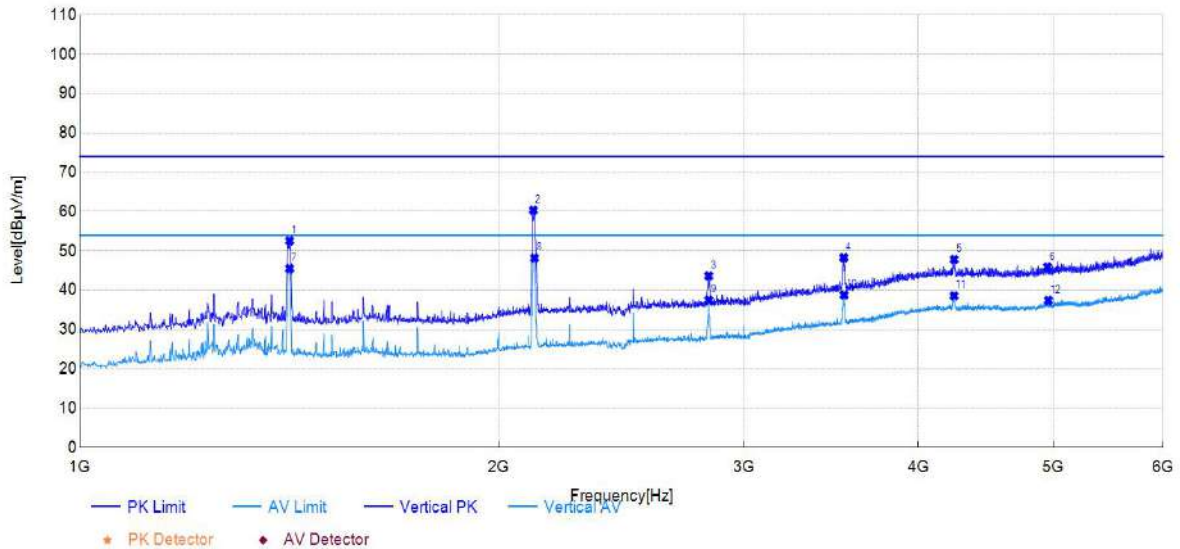
Suspected Data List											
NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	1412.00	76.87	54.80	-22.07	74.00	19.20	150	242	PK	Horizontal	PASS
2	2121.00	81.99	64.51	-17.48	74.00	9.49	150	328	PK	Horizontal	PASS
3	2833.00	54.42	39.36	-15.06	74.00	34.64	150	212	PK	Horizontal	PASS
4	3529.00	58.83	46.62	-12.21	74.00	27.38	150	305	PK	Horizontal	PASS
5	4233.00	54.56	46.60	-7.96	74.00	27.40	150	305	PK	Horizontal	PASS
6	4931.00	53.26	46.80	-6.46	74.00	27.20	150	0	PK	Horizontal	PASS
7	1412.00	69.65	47.58	-22.07	54.00	6.42	150	238	AV	Horizontal	PASS
8	2122.00	67.55	50.07	-17.48	54.00	3.93	150	33	AV	Horizontal	PASS
9	2830.00	46.68	31.60	-15.08	54.00	22.40	150	88	AV	Horizontal	PASS
10	3531.00	48.72	36.53	-12.19	54.00	17.47	150	51	AV	Horizontal	PASS
11	4250.00	45.41	37.51	-7.90	54.00	16.49	150	208	AV	Horizontal	PASS
12	4949.00	43.94	37.57	-6.37	54.00	16.43	150	197	AV	Horizontal	PASS

Note:

(1) Level=Reading + Factor

(2) Margin=Limit-Level

Test Mode:	Transmit at BLE + LTE Band12	Test Date:	2025-11-03
Test Channel:	00 + 23095	Test Engineer:	Stone Zhang



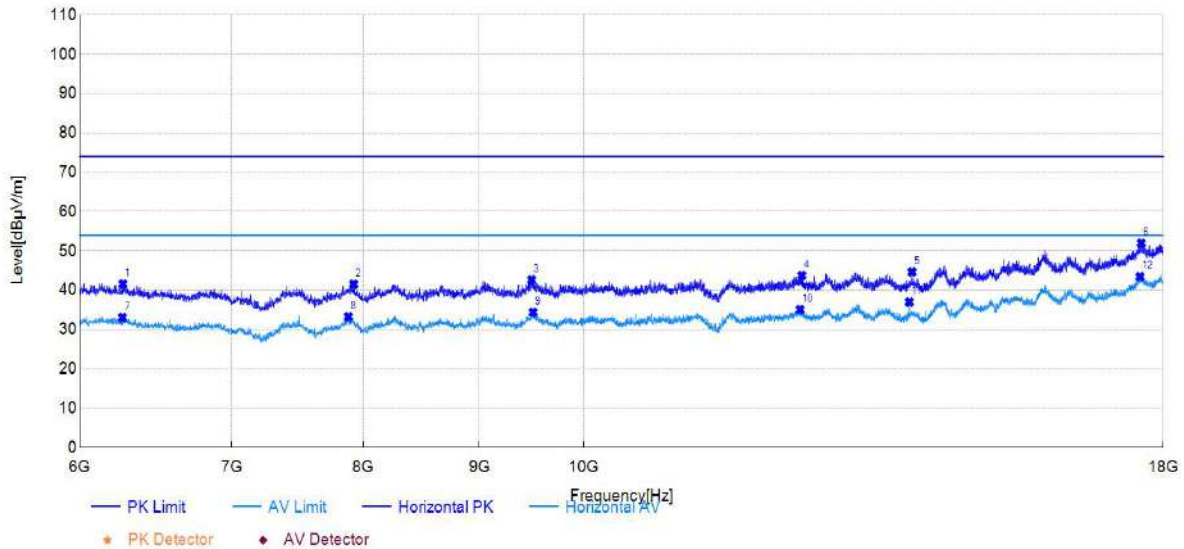
Suspected Data List											
NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	1415.00	73.81	52.57	-21.24	74.00	21.43	150	167	PK	Vertical	PASS
2	2117.00	77.89	60.34	-17.55	74.00	13.66	150	244	PK	Vertical	PASS
3	2830.00	58.56	43.65	-14.91	74.00	30.35	150	153	PK	Vertical	PASS
4	3537.00	59.41	48.30	-11.11	74.00	25.70	150	360	PK	Vertical	PASS
5	4246.00	55.73	47.82	-7.91	74.00	26.18	150	156	PK	Vertical	PASS
6	4953.00	52.80	45.89	-6.91	74.00	28.11	150	126	PK	Vertical	PASS
7	1415.00	66.75	45.51	-21.24	54.00	8.49	150	167	AV	Vertical	PASS
8	2121.00	65.73	48.20	-17.53	54.00	5.80	150	248	AV	Vertical	PASS
9	2830.00	52.38	37.47	-14.91	54.00	16.53	150	164	AV	Vertical	PASS
10	3539.00	49.89	38.80	-11.09	54.00	15.20	150	359	AV	Vertical	PASS
11	4245.00	46.47	38.56	-7.91	54.00	15.44	150	135	AV	Vertical	PASS
12	4960.00	44.29	37.40	-6.89	54.00	16.60	150	95	AV	Vertical	PASS

Note:

(1) Level=Reading + Factor

(2) Margin=Limit-Level

Test Mode:	Transmit at BLE + LTE Band12	Test Date:	2025-11-03
Test Channel:	00 + 23095	Test Engineer:	Stone Zhang



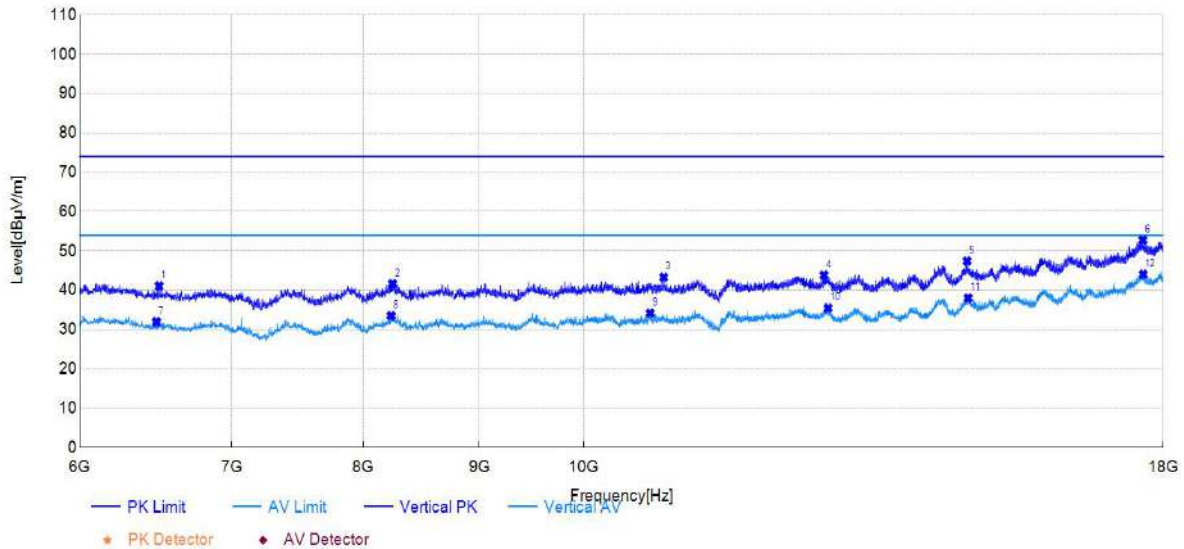
Suspected Data List											
NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	6270.00	45.73	41.58	-4.15	74.00	32.42	150	174	PK	Horizontal	PASS
2	7921.50	42.73	41.51	-1.22	74.00	32.49	150	29	PK	Horizontal	PASS
3	9487.50	42.35	42.60	0.25	74.00	31.40	150	5	PK	Horizontal	PASS
4	12477.00	41.44	43.75	2.31	74.00	30.25	150	282	PK	Horizontal	PASS
5	13950.00	41.64	44.63	2.99	74.00	29.37	150	0	PK	Horizontal	PASS
6	17602.50	37.90	51.97	14.07	74.00	22.03	150	143	PK	Horizontal	PASS
7	6267.00	37.20	33.03	-4.17	54.00	20.97	150	239	AV	Horizontal	PASS
8	7879.50	34.75	33.25	-1.50	54.00	20.75	150	232	AV	Horizontal	PASS
9	9501.00	34.02	34.37	0.35	54.00	19.63	150	65	AV	Horizontal	PASS
10	12456.00	32.82	35.11	2.29	54.00	18.89	150	306	AV	Horizontal	PASS
11	13912.50	33.77	36.99	3.22	54.00	17.01	150	111	AV	Horizontal	PASS
12	17580.00	29.54	43.44	13.90	54.00	10.56	150	298	AV	Horizontal	PASS

Note:

(1) Level=Reading + Factor

(2) Margin=Limit-Level

Test Mode:	Transmit at BLE + LTE Band12	Test Date:	2025-11-03
Test Channel:	00 + 23095	Test Engineer:	Stone Zhang



Suspected Data List											
NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	6504.00	46.34	41.04	-5.30	74.00	32.96	150	23	PK	Vertical	PASS
2	8239.50	43.06	41.62	-1.44	74.00	32.38	150	358	PK	Vertical	PASS
3	10848.00	42.53	43.28	0.75	74.00	30.72	150	100	PK	Vertical	PASS
4	12757.50	41.97	43.84	1.87	74.00	30.16	150	124	PK	Vertical	PASS
5	14749.50	41.85	47.42	5.57	74.00	26.58	150	19	PK	Vertical	PASS
6	17629.50	38.24	52.74	14.50	74.00	21.26	150	302	PK	Vertical	PASS
7	6486.00	37.20	31.93	-5.27	54.00	22.07	150	221	AV	Vertical	PASS
8	8229.00	34.97	33.49	-1.48	54.00	20.51	150	310	AV	Vertical	PASS
9	10698.00	33.67	34.15	0.48	54.00	19.85	150	74	AV	Vertical	PASS
10	12813.00	33.48	35.47	1.99	54.00	18.53	150	360	AV	Vertical	PASS
11	14766.00	32.39	37.96	5.57	54.00	16.04	150	360	AV	Vertical	PASS
12	17635.50	29.56	44.03	14.47	54.00	9.97	150	128	AV	Vertical	PASS

Note:

(1) Level=Reading + Factor

(2) Margin=Limit-Level

7.7. Radiated Restricted Band Edge Measurement

7.7.1. Test Limit

For 15.205 requirement:

Radiated emissions which fall in the restricted bands, as defined in Section 15.205(a) of FCC part 15, must also comply with the radiated emission limits specified in Section 15.209(a).

Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (GHz)
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
¹ 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	8.25 - 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	156.52480 - 156.525	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	(²)
13.36 - 13.41	--	--	--

All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47CFR must not exceed the limits shown in Table per Section 15.209.

FCC Part 15 Subpart C Paragraph 15.209		
Frequency [MHz]	Field Strength [uV/m]	Measured Distance [Meters]
0.009 - 0.490	2400/F (kHz)	300
0.490 - 1.705	24000/F (kHz)	30
1.705 - 30	30	30
30 - 88	100	3
88 - 216	150	3
216 - 960	200	3
Above 960	500	3

7.7.2. Test Procedure Used

ANSI C63.10 Section 6.3 (General Requirements)

ANSI C63.10 Section 6.6 (Standard test method above 1GHz)

7.7.3. Test Setting

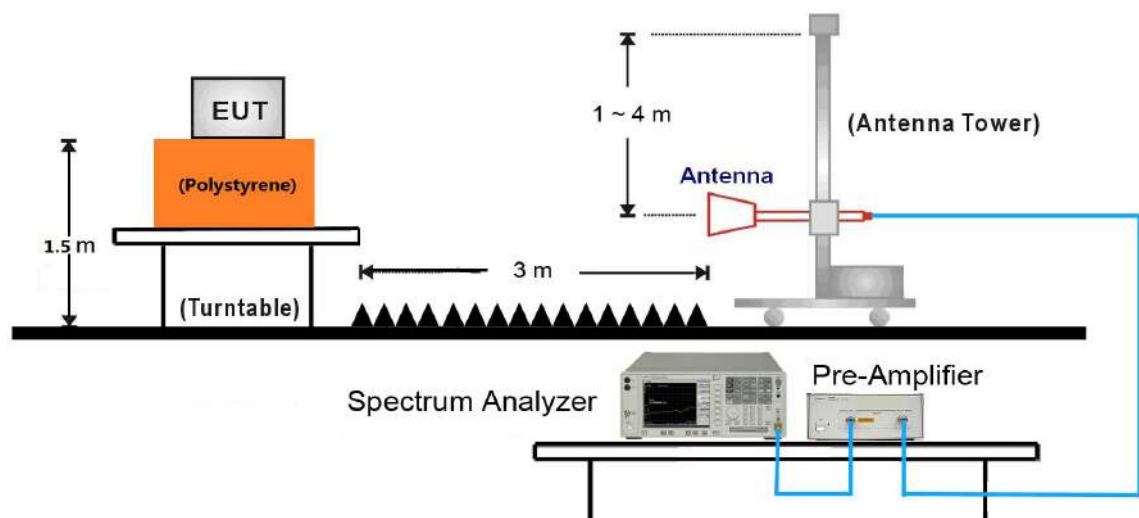
Peak Field Strength Measurements

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = peak
5. Sweep time = auto couple
6. Trace mode = max hold
7. Trace was allowed to stabilize

Average Field Strength Measurements

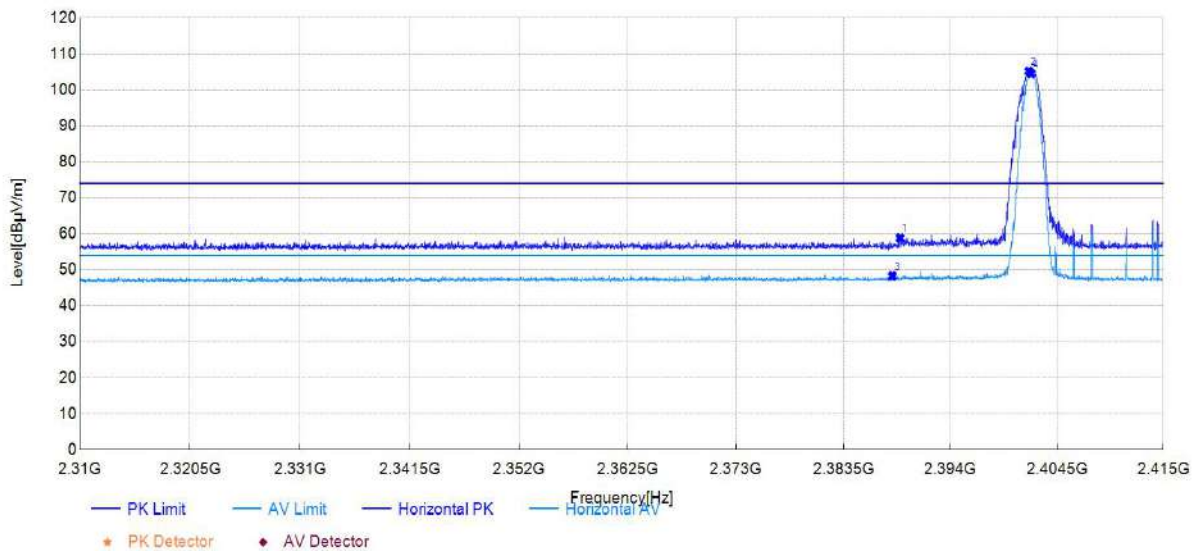
1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = Power Average (RMS)
5. Number of sweep point = 2001 (Number of sweep points must be $\geq 2 \times \text{span} / \text{RBW}$)
6. Sweep time = auto
7. Trace (RMS) averaging was performed over at least 100 traces.

7.7.4. Test Setup



7.7.5. Test Result

Project Information			
EUT:	GPS Tracker	Model:	GL8501CNA
Test Date:	2025-09-24	Voltage:	DC 12V
Environment:	Temp: 23.2°C; Humi:51%	Engineer:	Stone Zhang
Remark:	Transmit by BLE at Channel 2402MHz		

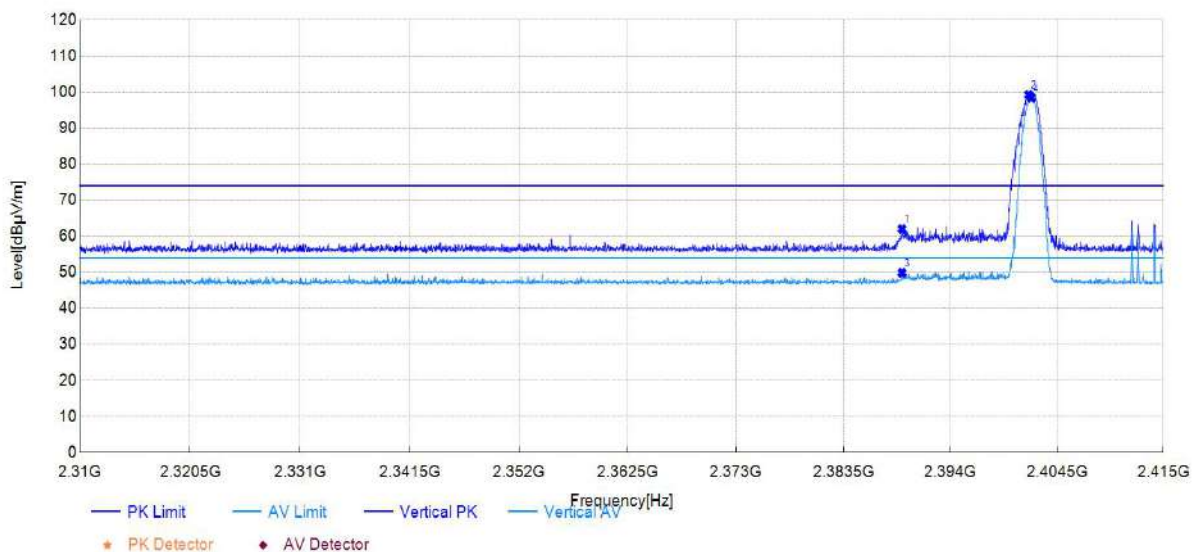


Suspected Data List											
NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	2389.06	23.35	58.83	35.48	74.00	15.17	150	85	PK	Horizontal	PASS
2	2401.71	69.71	105.18	35.47	/	/	150	223	PK	Horizontal	PASS
3	2388.30	12.79	48.28	35.49	54.00	5.72	150	49	AV	Horizontal	PASS
4	2401.92	69.08	104.55	35.47	/	/	150	223	AV	Horizontal	PASS

Note:

(1) Level=Reading + Factor

(2) Margin=Limit-Level



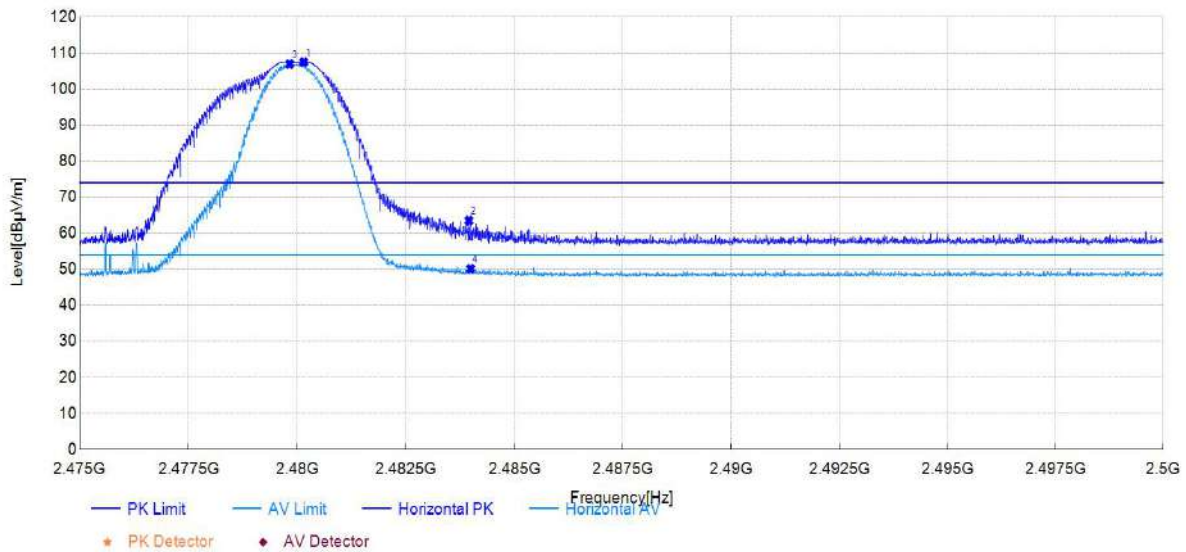
Suspected Data List											
NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	2389.24	26.69	62.03	35.34	74.00	11.97	150	53	PK	Vertical	PASS
2	2401.69	63.93	99.24	35.31	/	/	150	75	PK	Vertical	PASS
3	2389.24	14.50	49.84	35.34	54.00	4.16	150	53	AV	Vertical	PASS
4	2401.95	63.17	98.48	35.31	/	/	150	75	AV	Vertical	PASS

Note:

(1) Level=Reading + Factor

(2) Margin=Limit-Level

Project Information			
EUT:	GPS Tracker	Model:	GL8501CNA
Test Date:	2025-09-24	Voltage:	DC 12V
Environment:	Temp: 23.2°C; Humi:51%	Engineer:	Stone Zhang
Remark:	Transmit by BLE at Channel 2480MHz		

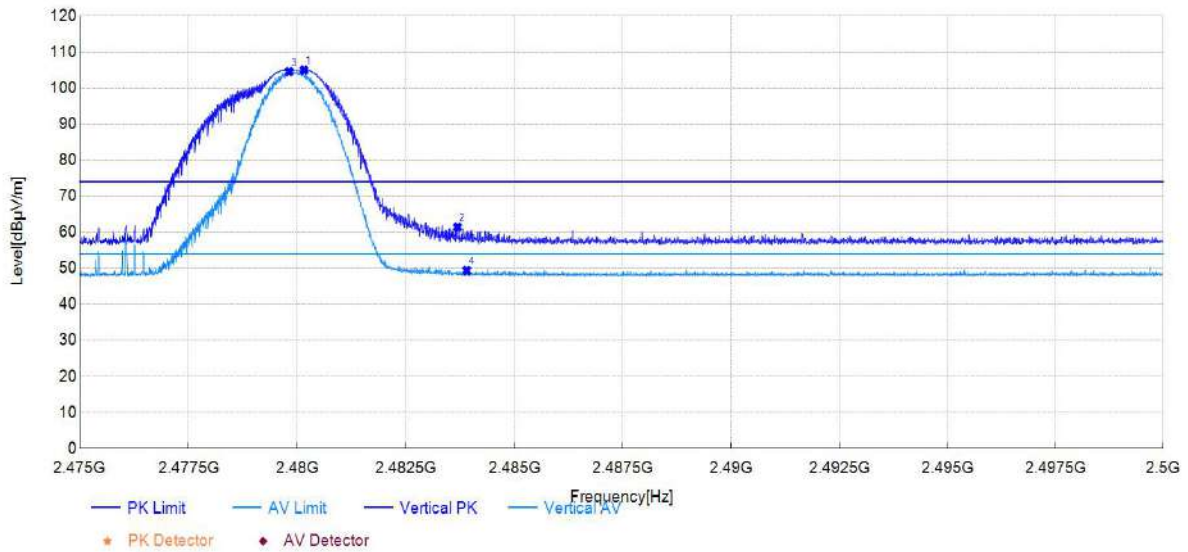


Suspected Data List											
NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	2480.15	71.23	107.49	36.26	/	/	150	212	PK	Horizontal	PASS
2	2483.95	27.19	63.49	36.30	74.00	10.51	150	208	PK	Horizontal	PASS
3	2479.83	70.70	106.96	36.26	/	/	150	219	AV	Horizontal	PASS
4	2483.99	13.83	50.13	36.30	54.00	3.87	150	223	AV	Horizontal	PASS

Note:

(1) Level=Reading + Factor

(2) Margin=Limit-Level



Suspected Data List

NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	2480.16	69.02	105.01	35.99	/	/	150	77	PK	Vertical	PASS
2	2483.69	25.38	61.40	36.02	74.00	12.60	150	299	PK	Vertical	PASS
3	2479.81	68.59	104.58	35.99	/	/	150	77	AV	Vertical	PASS
4	2483.90	13.33	49.35	36.02	54.00	4.65	150	73	AV	Vertical	PASS

Note:

(1) Level=Reading + Factor

(2) Margin=Limit-Level

7.8. AC Conducted Emissions Measurement

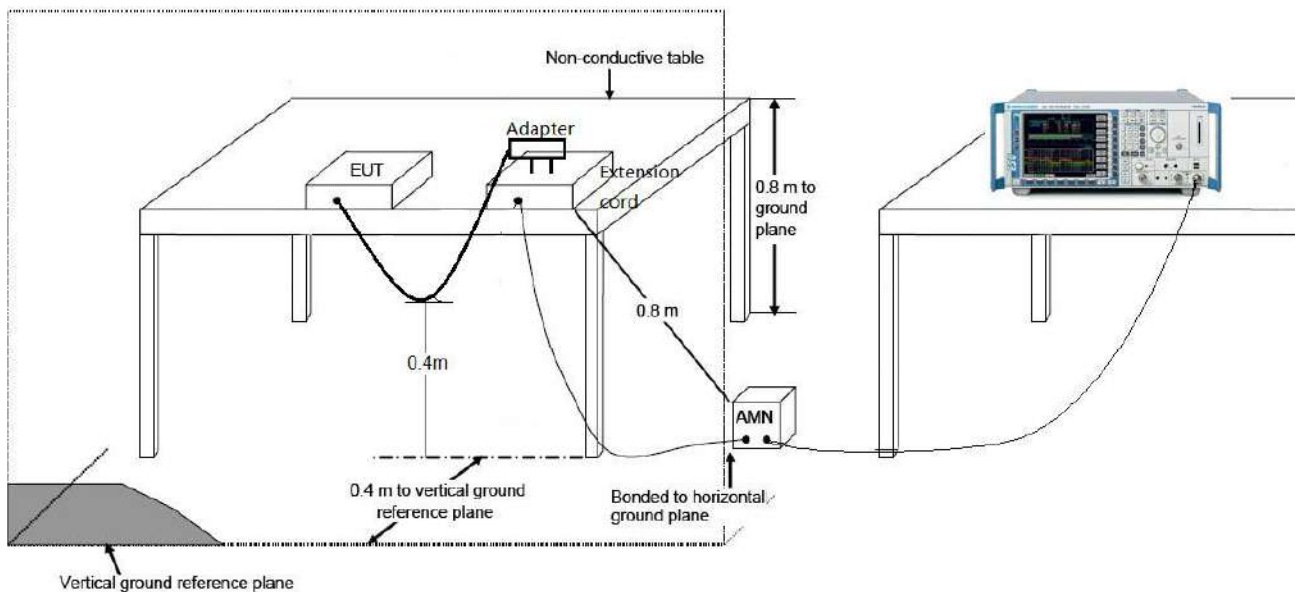
7.8.1. Test Limit

FCC Part 15 Subpart C Paragraph 15.207 Limits		
Frequency (MHz)	QP (dBuV)	AV (dBuV)
0.15 - 0.50	66 - 56	56 – 46
0.50 - 5.0	56	46
5.0 - 30	60	50

Note 1: The lower limit shall apply at the transition frequencies.

Note 2: The limit decreases linearly with the logarithm of the frequency in the range 0.15MHz to 0.5MHz.

7.8.2. Test Setup



7.8.3. Test Result

The EUT is DC 12V supply, this item only for the EUT is designed to be connected to the public utility (AC) power line. Not applicable.

8. Conclusion

The data collected relate only the item(s) tested and show that the **GPS Tracker** is compliance with Part 15C of the FCC Rules.

Statement

1. This report is invalid for the following states: without the special inspection and testing stamp or the official stamp of our institution; without the signature of the report authorized officer; if the report is altered.
2. It is forbidden to copy partial contents of the report except in full without the approval of our institution.
3. The client shall provide the test sample(s) and commission information and be responsible for their authenticity.
4. The report content is only applicable to the tested sample(s) this time.
5. If there are any objections to the report content, please submit them to our company in writing within 15 days from the date of receiving the report.
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7. This report is issued by the following laboratory premises:

No.8 Ningyun Rd., Xinwu District Wuxi, Jiangsu 214000 China

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