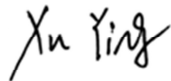


RF TEST REPORT

Applicant Positec Technology (China) Co., Ltd.
FCC ID 2ASC3KR800
Product Lawn Mowing Robot
Brand KRESS
Model KR800
Report No. EFTA25060090-IE-05-R3V1
Issue Date September 28, 2025

Eurofins TA Technology (Shanghai) Co., Ltd. tested the above equipment in accordance with the requirements in **FCC CFR47 Part 15C (2024)**. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.



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Version	Revision Description	Issue Date
Rev.0	Initial issue of report.	September 20, 2025
Rev.1	Update description.	September 28, 2025
Note: This revised report (Report No.: EFTA25060090-IE-05-R3V1) supersedes and replaces the previously issued report (Report No.: EFTA25060090-IE-05-R3). Please discard or destroy the previously issued report and dispose of it accordingly.		

Summary of Measurement Results

Number	Test Case	Clause in FCC rules	Verdict
1	Frequency Hopping System	Refer to the Module report (Model: AW-CM467-USB-I; Report No.: FR181814AC; FCC ID: TLZ-CM467, Grant date: 12/20/2021)	
2	Peak Power Output		
3	99% Bandwidth and 20dB Bandwidth		
4	Frequency Separation		
5	Time of Occupancy (Dwell Time)		
6	Band Edge Compliance		
7	Number of Hopping Frequency		
8	Spurious RF Conducted Emissions		
9	Unwanted Emissions	15.247(d), 15.205, 15.209	PASS
10	Conducted Emissions	15.207	PASS
Date of Testing: June 14, 2025 ~ July 18, 2025 and September 19, 2025			
Date of Sample Received: June 6, 2025			
Note: PASS: The EUT complies with the essential requirements in the standard.			
FAIL: The EUT does not comply with the essential requirements in the standard.			
All indications of Pass/Fail in this report are opinions expressed by Eurofins TA Technology (Shanghai) Co., Ltd. based on interpretations and/or observations of test results. Measurement Uncertainties were not taken into account and are published for informational purposes only.			

According to customer requirements the detailed standard upgrade please refers to following table:

Old Standard(s)	New Standard(s)
ANSI C63.10-2013	ANSI C63.10-2020

After technical evaluation, new standard conforms to the technical assessment of the original report. So the standard upgrade does not require to add any test.

1 Test Laboratory

1.1 Notes of the Test Report

This report shall not be reproduced in full or partial, without the written approval of **Eurofins TA Technology (Shanghai) Co., Ltd.** The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. Measurement Uncertainties were not taken into account and are published for informational purposes only. This report is written to support regulatory compliance of the applicable standards stated above.

1.2. Test facility

FCC (Designation number: CN1179, Test Firm Registration Number: 446626)

Eurofins TA Technology (Shanghai) Co., Ltd. has been listed on the US Federal Communications Commission list of test facilities recognized to perform measurements.

A2LA (Certificate Number: 3857.01)

Eurofins TA Technology (Shanghai) Co., Ltd. has been listed by American Association for Laboratory Accreditation to perform measurement.

1.3 Testing Location

Company: Eurofins TA Technology (Shanghai) Co., Ltd.
Address: Building 3, No.145, Jintang Rd, Pudong Shanghai, P.R.China
City: Shanghai
Post code: 201201
Country: P. R. China
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Website: <https://www.eurofins.com/electrical-and-electronics>
E-mail: Kain.Xu@cpt.eurofinscn.com

2 General Description of Equipment under Test

2.1 Applicant and Manufacturer Information

Applicant	Positec Technology (China) Co., Ltd.
Applicant address	18, Dongwang Road, Suzhou Industrial Park, Jiangsu 215123, P.R.China
Manufacturer	Positec Technology (China) Co., Ltd.
Manufacturer address	18, Dongwang Road, Suzhou Industrial Park, Jiangsu 215123, P.R.China

2.2 General information

EUT Description			
Model	KR800		
Lab internal SN	250606-39-001		
Hardware Version	HV1.51		
Software Version	3.3.2+4		
Power Supply	Battery / Charger		
Antenna Type	Internal Antenna		
Antenna Connector	FK6121AW-089-TT30G-50 antenna (meet with the standard FCC Part 15.203 requirement)		
Antenna Gain	6.0 dBi		
Test Mode(s)	Basic Rate	Enhanced Data Rate(EDR)	
Modulation Type	Frequency Hopping Spread Spectrum (FHSS)		
	GFSK	π/4 DQPSK	8DPSK
Packet Type (Maximum Payload)	DH5	2DH5	3DH5
Operating Frequency Range(s)	2402-2480 MHz		
Operating voltage range	44.80 Vdc to 48.44 Vdc		
State voltage	45 Vdc		
EUT Accessory			
Charger	Manufacturer: Positec Technology (China) Co., Ltd. Model: KAC841 Input: 220-240V~ 50/60Hz 1800W Output: 60.0V  30A		
Battery (Built-in)	Manufacturer: Positec Technology (China) Co., Ltd. Model: KA3110 DC 45V, 268Ah		
Battery (External)	Manufacturer: Positec Technology (China) Co., Ltd. Model: KAC815 60VDC 1500Wh Max		

	54VDC 25Ah
Note: 1. The EUT is sent from the applicant to Eurofins TA and the information of the EUT is declared by the applicant. 2. The external battery is only for emergency charging.	

3 Applied Standards

According to the specifications of the manufacturer, it must comply with the requirements of the following standards:

Test standards:

FCC CFR47 Part 15C (2024) Radio Frequency Devices

ANSI C63.10-2020

Reference standard:

KDB 558074 D01 15.247 Meas Guidance v05r02

4 Information about the FHSS characteristics

4.1 Frequency Hopping System Requirement

Standard requirement:

(g) Frequency hopping spread spectrum systems are not required to employ all available hopping channels during each transmission. However, the system, consisting of both the transmitter and the receiver, must be designed to comply with all of the regulations in this section should the transmitter be presented with a continuous data (or information) stream. In addition, a system employing short transmission bursts must comply with the definition of a frequency hopping system and must distribute its transmissions over the minimum number of hopping channels specified in this section.

(h) The incorporation of intelligence within a frequency hopping spread spectrum system that permits the system to recognize other users within the spectrum band so that it individually and independently chooses and adapts its hop sets to avoid hopping on occupied channels is permitted. The coordination of frequency hopping systems in any other manner for the express purpose of avoiding the simultaneous occupancy of individual hopping frequencies by multiple transmitters is not permitted.

Compliance for section 15.247(g):

According to Bluetooth Core Specification, the Bluetooth system transmits the packets with the pseudorandom hopping frequency with a continuous data and short burst transmission from the Bluetooth system is also transmitted under the frequency hopping system with the pseudorandom hopping frequency system.

Compliance for section 15.247(h):

According to Bluetooth Core Specification, the Bluetooth system incorporates with an adaptive system to detect other user within the spectrum band so that it individually and independently to avoid hopping on the occupied channels.

According to Bluetooth Core Specification, the Bluetooth system is designed not have the ability to coordinate with other FHSS System in an effort to avoid the simultaneous occupancy of individual hopping frequencies by multiple transmitter.

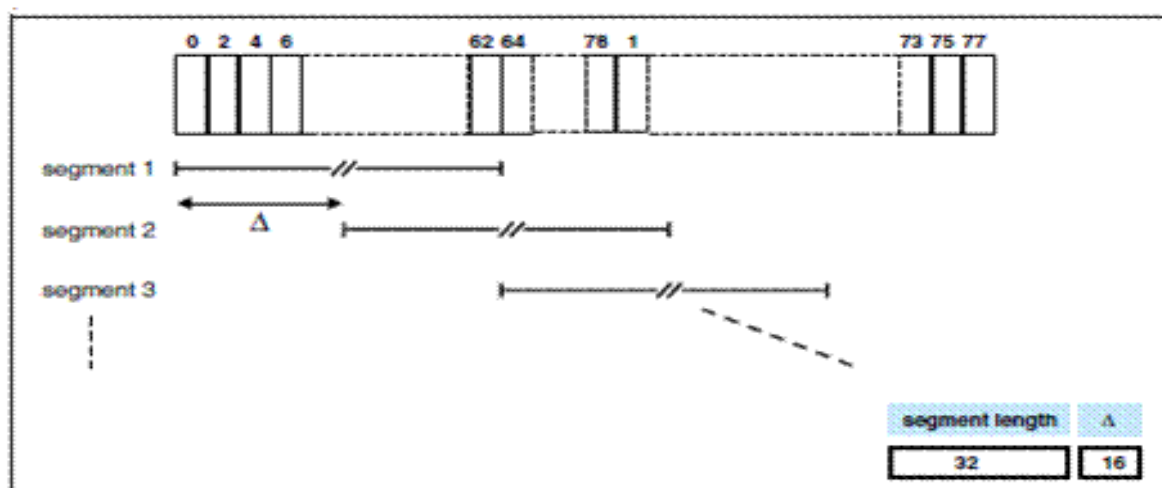
4.2 Pseudorandom Frequency Hopping Sequence

Frequency Hopping Systems. A spread spectrum system in which the carrier is modulated with the coded information in a conventional manner causing a conventional spreading of the RF energy about the frequency carrier. The frequency of the carrier is not fixed but changes at fixed intervals under the direction of a coded sequence. The wide RF bandwidth needed by such a system is not required by spreading of the RF energy about the carrier but rather to accommodate the range of frequencies to which the carrier frequency can hop. The test of a frequency hopping system is that the near term distribution of hops appears random, the long term distribution appears evenly distributed over the hop set, and sequential hops are randomly distributed in both direction and magnitude of change in the hop set.

Adaptive Frequency Hopping (AFH) was introduced in the Bluetooth specification to provide an effective way for a Bluetooth radio to counteract normal interference. AFH identifies "bad" channels, where either other wireless devices are interfering with the Bluetooth signal or the Bluetooth signal is interfering with another device. The AFH-enabled Bluetooth device will then communicate with other devices within its pioneer to share details of any identified bad channels. The devices will then switch to alternative available "good" channels, away from the areas of interference, thus having no impact on the bandwidth used.

The selection scheme chooses a segment of 32 hop frequencies spanning about 64 MHz and visits these hops in a pseudo-random order. Next, a different 32-hop segment is chosen, etc. In the page, master page response, slave page response, page scan, inquiry, inquiry response and inquiry scan hopping sequences, the same 32-hop segment is used all the time (the segment is selected by the address; different devices will have different paging segments).

When the basic channel hopping sequence is selected, the output constitutes a pseudo-random sequence that slides through the 79 hops. The principle is depicted in the figure below.



Hop selection scheme in CONNECTION state.

Pseudorandom Frequency Hopping Sequence Table as below:

Channel: 08, 24, 40, 56, 40, 56, 72, 09, 01, 09, 33, 41, 33, 41, 65, 73, 53, 69, 06, 22, 04, 20, 36, 52, 38, 46, 70, 78, 68, 76, 21, 29, 10, 26, 42, 58, 44, 60, 76, 13, 03, 11, 35, 43, 37, 45, 69, 77, 55, 71, 08, 24, 08, 24, 40, 56, 40, 48, 72, 01, 72, 01, 25, 33, 12, 28, 44, 60, 42, 58, 74, 11, 05, 13, 37, 45, etc.

Each frequency used equally on the average by each transmitter.

The system receiver have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shift frequencies in synchronization with the transmitted signals.

4.3 Equal Hopping Frequency Use

All Bluetooth units participating in the Pico net are time and hop-synchronized to the channel. Each new transmission event begins on the next channel in the hopping sequence after the final channel used in the previous transmission event.

4.4 System Receiver Input Bandwidth

Each channel bandwidth is 1MHz. The system receivers have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shift frequencies in synchronization with the transmitted signals.

4.5 Test Configuration

The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application.

Test Cases	Test Modes
Unwanted Emissions	DH5/2DH5/3DH5
Conducted Emissions	DH5/2DH5/3DH5

5 Test Case Results

5.1 Unwanted Emission

Ambient condition

Temperature	Relative humidity	Pressure
15°C ~ 35°C	20% ~ 80%	86 kPa ~ 106 kPa

Method of Measurement

The test set-up was made in accordance to the general provisions of ANSI C63.10. The Equipment Under Test (EUT) was set up on a non-conductive table in the semi-anechoic chamber. The test was performed at the distance of 10 m below 1GHz; 3 m for above 1GHz between the EUT and the receiving antenna. The radiated emissions measurements were made in a typical installation configuration.

Sweep the whole frequency band through the range from 9 kHz to the 10th harmonic of the carrier, and the emissions less than 20 dB below the permissible value are reported.

During the test, below 30MHz, the center of the loop shall be 1 meters; above 30MHz, the height of receive antenna shall be moved from 1 to 4 meters, and the antenna shall be performed under horizontal and vertical polarization. The turntable shall be rotated from 0 to 360 degrees for detecting the maximum of radiated spurious signal level. The measurements shall be repeated with orthogonal polarization of the test antenna. The data of cable loss and antenna factor has been calibrated in full testing frequency range before the testing.

Set the spectrum analyzer in the following:

9kHz~150 kHz

RBW=200Hz, VBW=1kHz/ Sweep=AUTO

150 kHz~30MHz

RBW=9kHz, VBW=30kHz,/ Sweep=AUTO

Below 1GHz

RBW=100kHz / VBW=300kHz / Sweep=AUTO

Above 1GHz

(a) PEAK: RBW=1MHz VBW=3MHz/ Sweep=AUTO

(b) AVERAGE: RBW=1MHz / VBW=3MHz / Sweep=AUTO

detector; The measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.

The dwell time per channel of the hopping signal is less than 100 ms, then the reading obtained with the 10 Hz VBW may be further adjusted by a “duty cycle correction factor”, derived from $20\log(\text{dwell time}/100 \text{ ms})$, in an effort to demonstrate compliance with the 15.209 limit.

If the emission is pulsed, modify the unit for continuous operation; use the settings shown above, then correct the reading by subtracting the peak- average correction factor, derived from the appropriate duty cycle calculation.

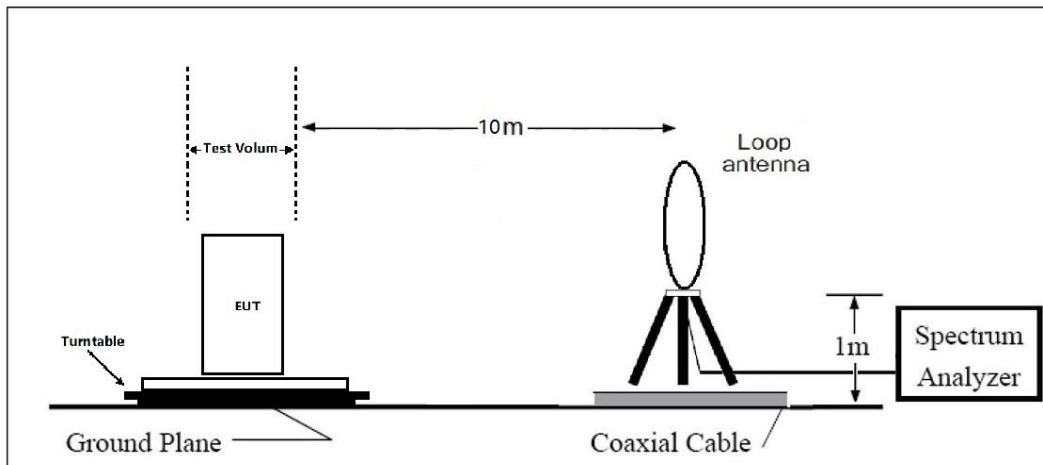
This setting method can refer to **KDB 558074 D01**.

This mode was measured in the following mode: EUT with cradle and EUT without cradle. The worst emission was found in EUT with cradle mode and the worst case was recorded.

The test is in transmitting mode.

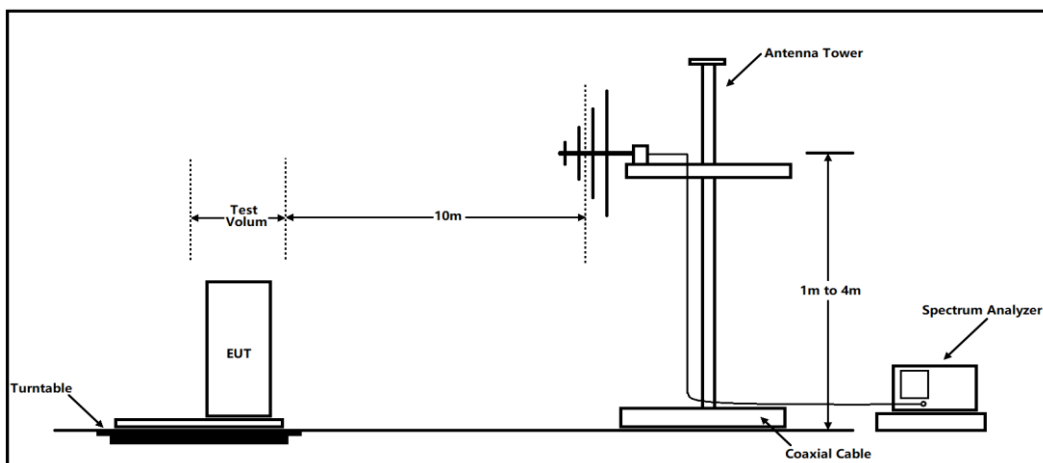
Test setup

9kHz~ 30MHz



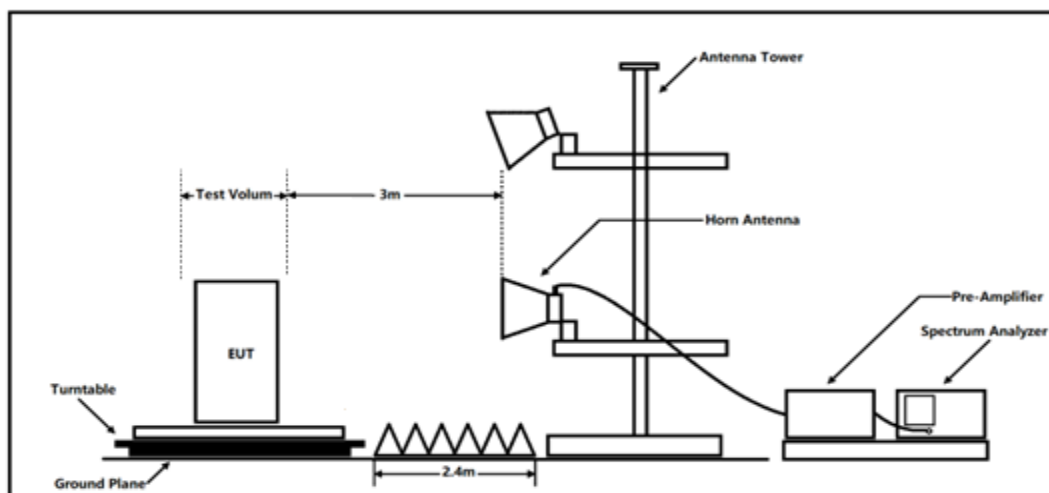
Note: Area side: 21m x 12m

30MHz~ 1GHz



Note: Area side: 21m x 12m

Above 1GHz



Note: Area side: 2.4mX3.6m

Limits

Rule Part 15.247(d) specifies that “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)).”

Limit in restricted band

Frequency of emission (MHz)	Field strength (μV/m)	Field strength (dBμV/m) @ 3 m	Field strength (dBμV/m) @ 10 m
0.009–0.490	2400/F(kHz)	/	/
0.490–1.705	24000/F(kHz)	/	/
1.705–30.0	30	/	/
30-88	100	40	30
88-216	150	43.5	33.5
216-960	200	46	36
960 -1000	500	54	44
Above 1000	500	54	--

§15.35(b)

There is also a limit on the radio frequency emissions, as measured using instrumentation with a peak detector function, corresponding to 20 dB above the maximum permitted average limit.

Peak Limit=74dBμV/m

Average Limit=54dBμV/m

Spurious Radiated Emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	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	8.025-8.5
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	(²)
13.36-13.41			

Measurement Uncertainty

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor $k = 1.96$.

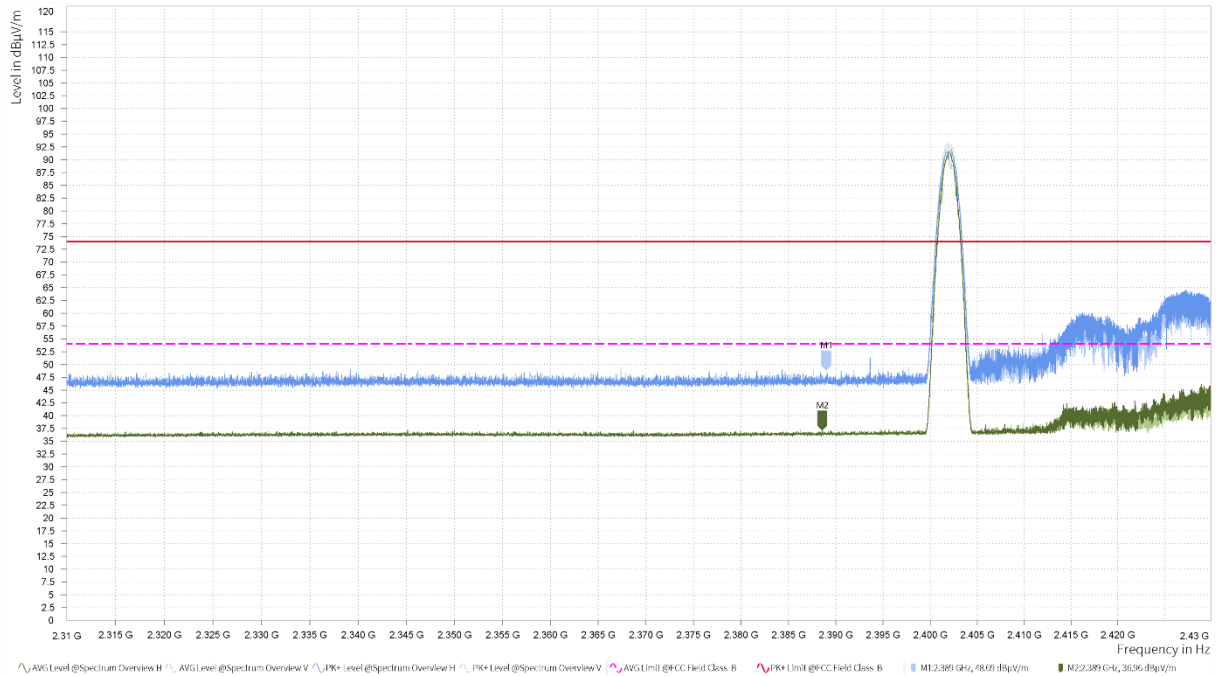
Frequency	Uncertainty
9kHz-30MHz	3.55 dB
30MHz-200MHz	3.39 dB
200MHz-1GHz	3.82 dB
1GHz -18GHz	6.51 dB
18GHz -40GHz	6.31 dB

Test Results:

The following graphs display the maximum values of horizontal and vertical by software.

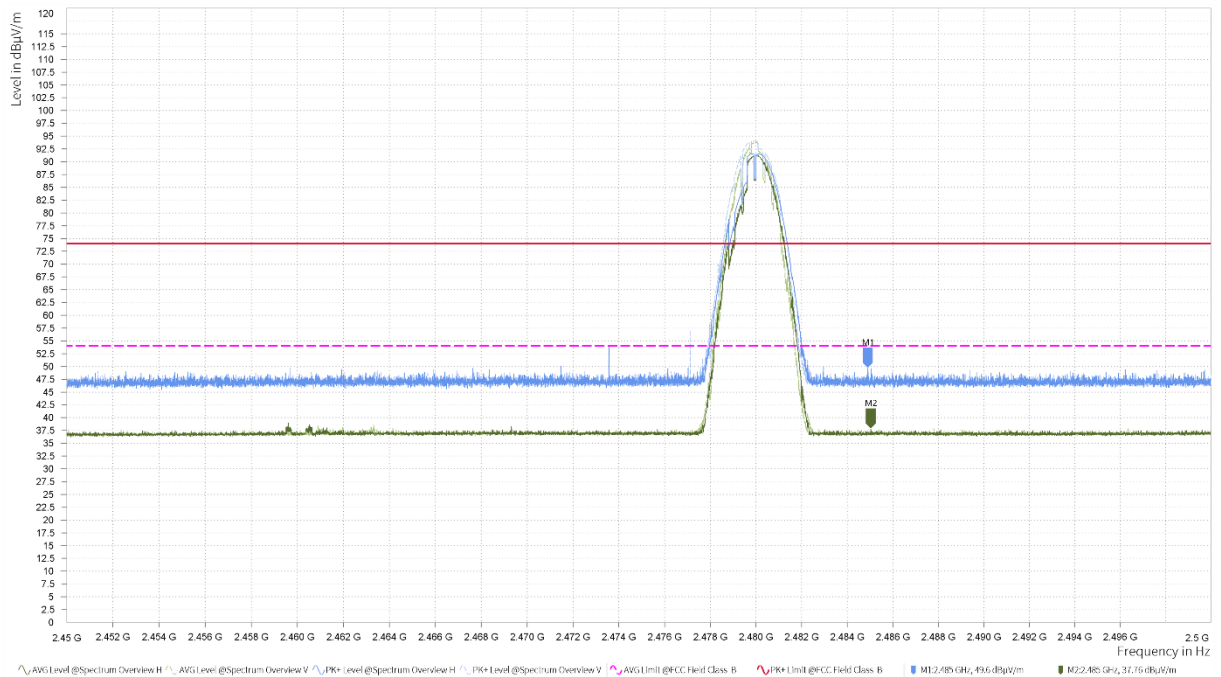
The signal beyond the limit is carrier.

Spectrum Overview H/V



BANEDGE_2.31-2.43GHz_BT BR_CH0

Spectrum Overview H/V

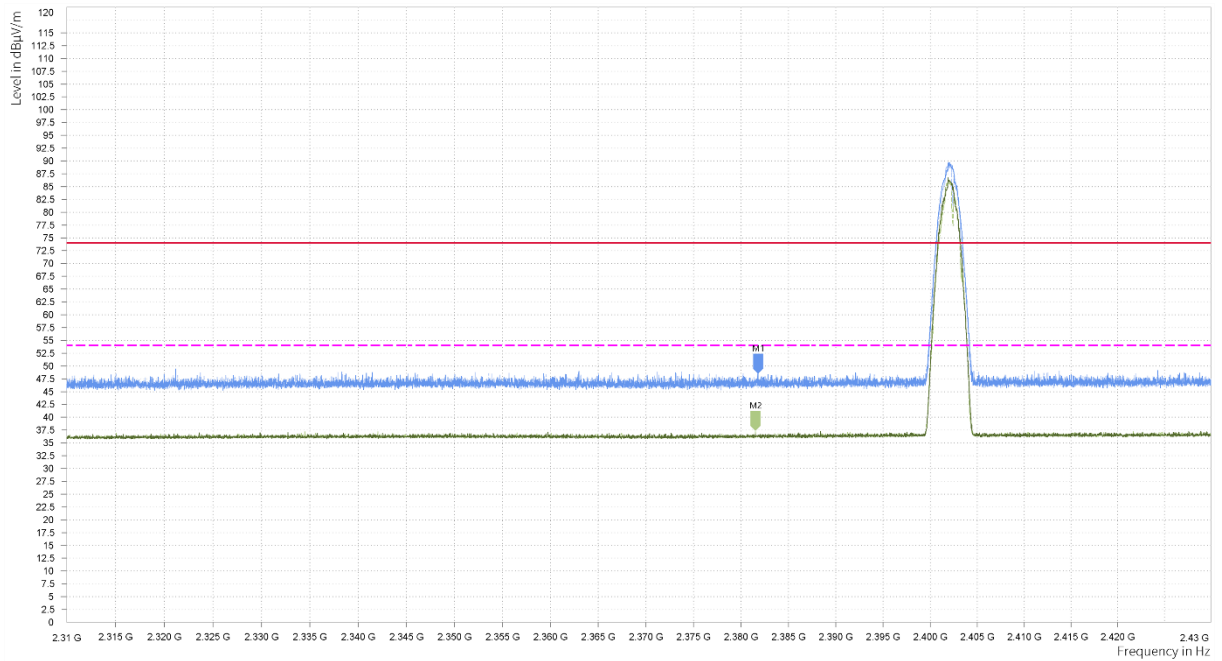


BANEDGE_2.45-2.5GHz_BT BR_CH78

The bandage was performed in all EDR mode (2DH5 and 3DH5), 3DH5 was selected as the worse

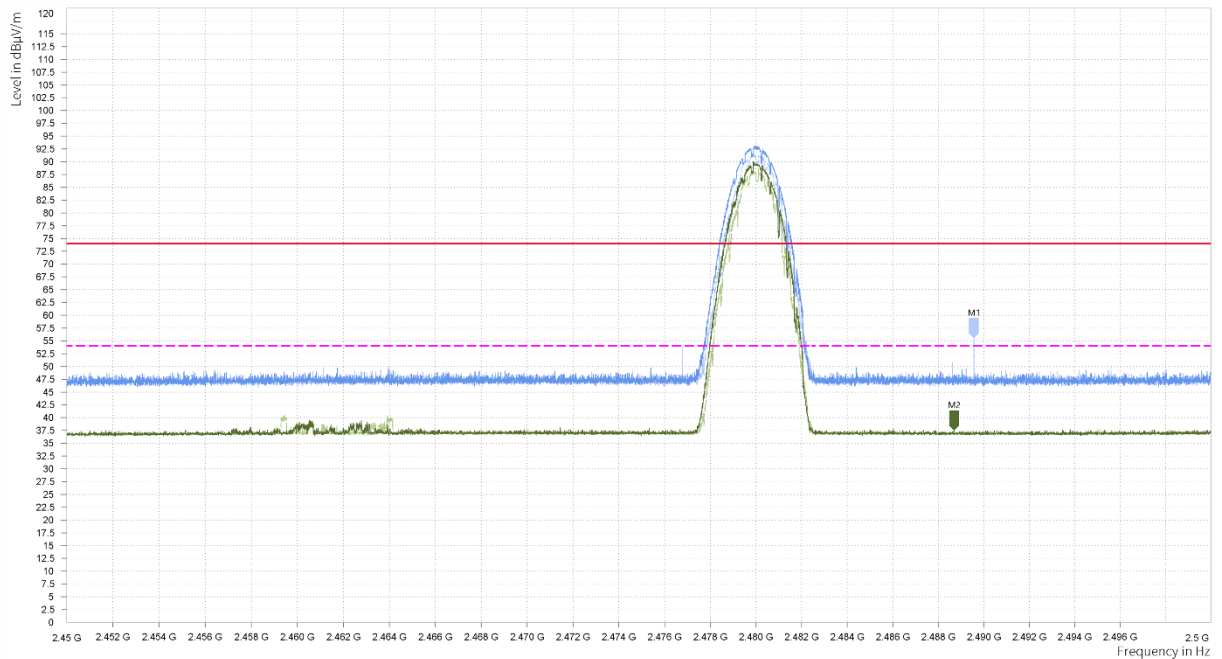
condition. The test data of the worst-case condition was recorded in this report.

Spectrum Overview H/V



BANEDGE_2.31-2.43GHz_BT EDR_CH0

Spectrum Overview H/V



BANEDGE_2.45-2.5GHz_BT EDR_CH78

Result of RE

Sweep the whole frequency band through the range from 9kHz to the 10th harmonic of the carrier. The Radiates Emission from 9kHz to 30MHz and 18GHz to 26.5GHz are more than 20dB below the limit are not reported.

Remark:

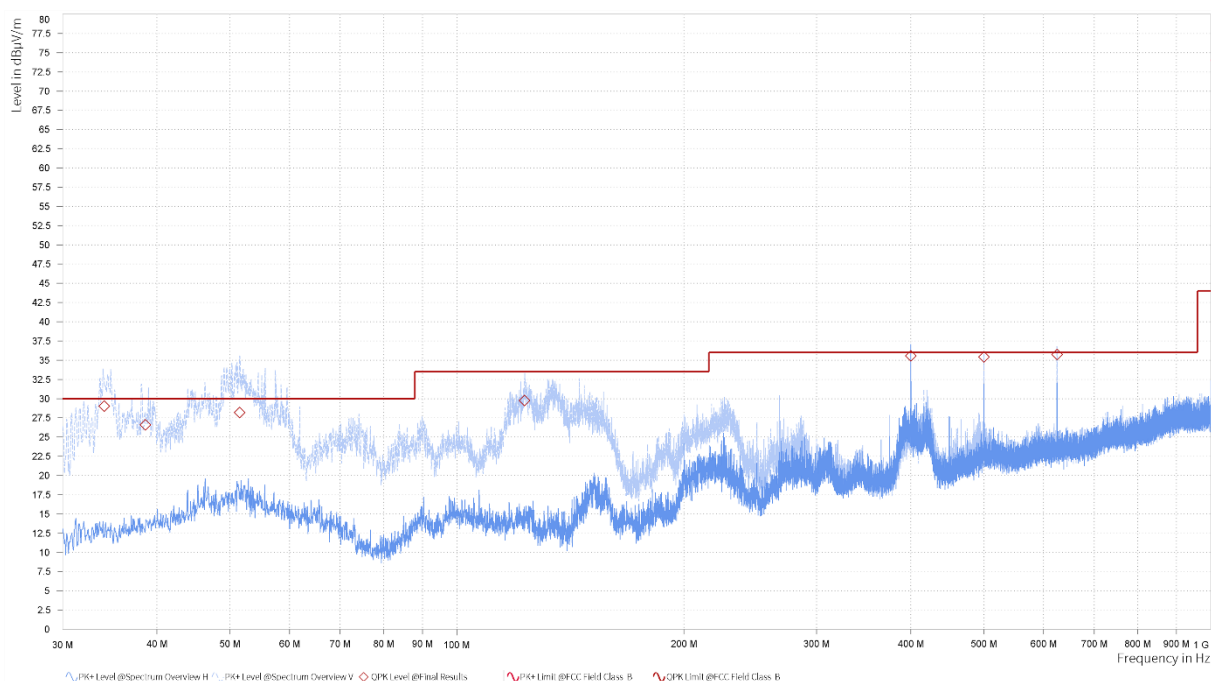
1. Correction Factor = Antenna factor + Insertion loss (cable loss + amplifier gain)
2. Margin = Limit – Quasi-Peak/ MAX Peak/ Average
3. The following graphs display the maximum values of horizontal and vertical by software.

Continuous TX mode:

During the test, the Radiates Emission from 30MHz to 1GHz was performed in all modes with all channels, the test data of the worst-case condition (DH5-Channel 0) was recorded in this report.

DH5-Channel 0

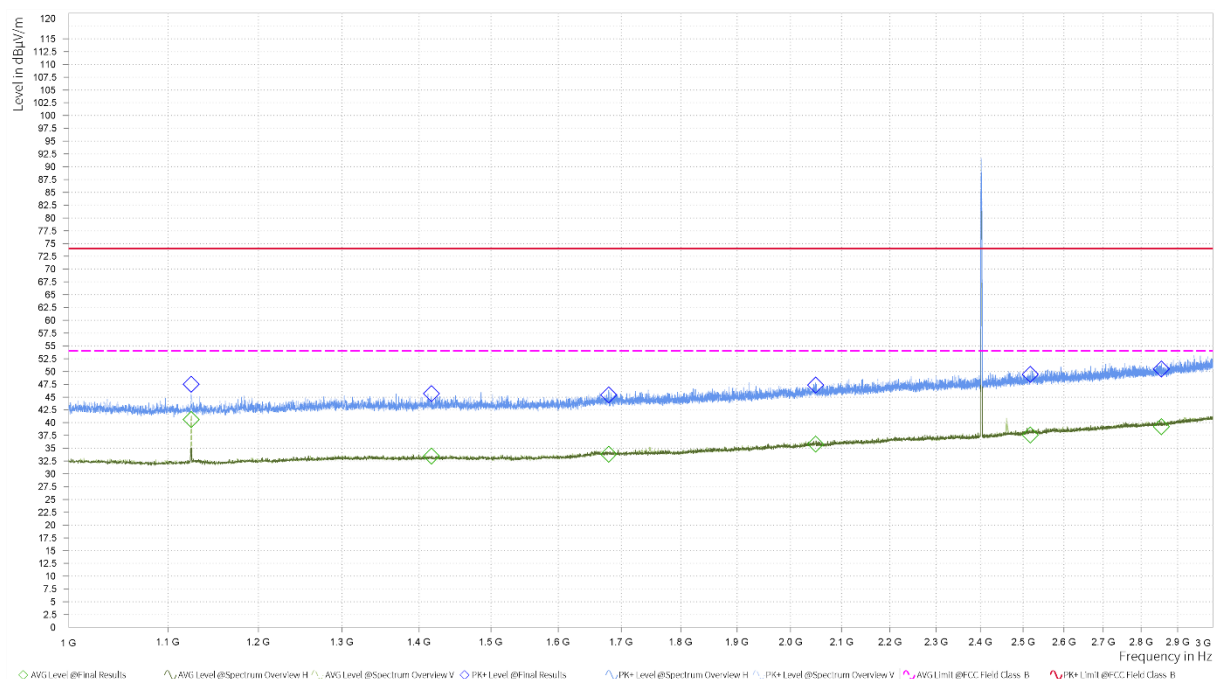
Spectrum Overview H/V



Radiates Emission from 30MHz to 1GHz

Frequency [MHz]	QPK Level [dBμV/m]	QPK Limit [dBμV/m]	QPK Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]	Meas. BW [kHz]	Meas. Time [s]
34.066	29.02	30.00	0.98	-11.36	V	190.2	1.00	120.000	1.000
38.623	26.57	30.00	3.43	-9.99	V	96	2.14	120.000	1.000
51.526	28.16	30.00	1.84	-8.51	V	104.8	1.75	120.000	1.000
122.952	29.75	33.50	3.75	-11.74	V	67.9	1.14	120.000	1.000
400.037	35.56	36.00	0.44	-4.60	H	0.3000002	2.11	120.000	1.000
500.007	35.41	36.00	0.59	-2.87	V	322.6	1.02	120.000	1.000
624.999	35.72	36.00	0.28	-0.73	V	19.7	1.00	120.000	1.000

Spectrum Overview H/V

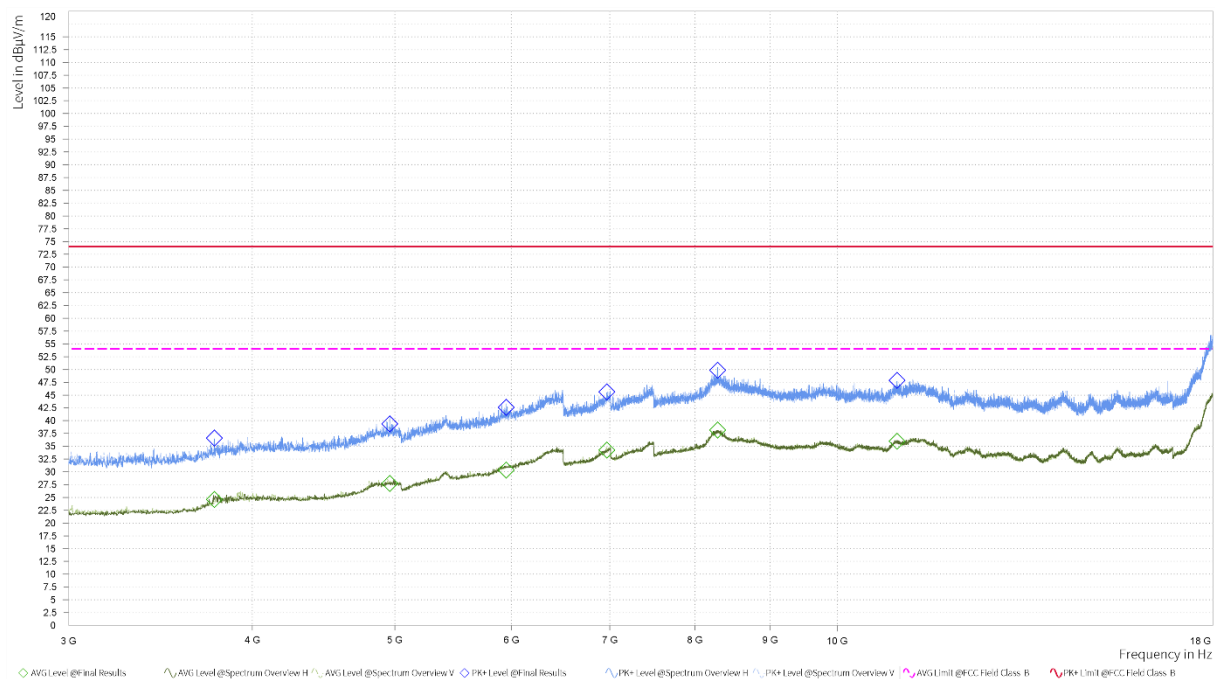


Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 3GHz

Frequency [MHz]	PK+ Level [dBµV/m]	PK+ Limit [dBµV/m]	PK+ Margin [dB]	AVG Level [dBµV/m]	AVG Limit [dBµV/m]	AVG Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]	Meas. Time [s]
1,124.750	47.45	74.00	26.55	40.61	54.00	13.39	6.30	V	128.4	1.00	1.000
1,416.750	45.64	74.00	28.36	33.45	54.00	20.55	6.92	H	160.5	1.00	1.000
1,679.750	45.38	74.00	28.62	33.79	54.00	20.21	7.16	H	82.5	1.00	1.000
2,048.500	47.31	74.00	26.69	35.78	54.00	18.22	9.31	H	217.8	1.00	1.000
2,517.500	49.41	74.00	24.59	37.58	54.00	16.42	11.14	V	225.4	2.00	1.000
2,855.500	50.44	74.00	23.56	39.18	54.00	14.82	12.50	H	288.8	1.00	1.000

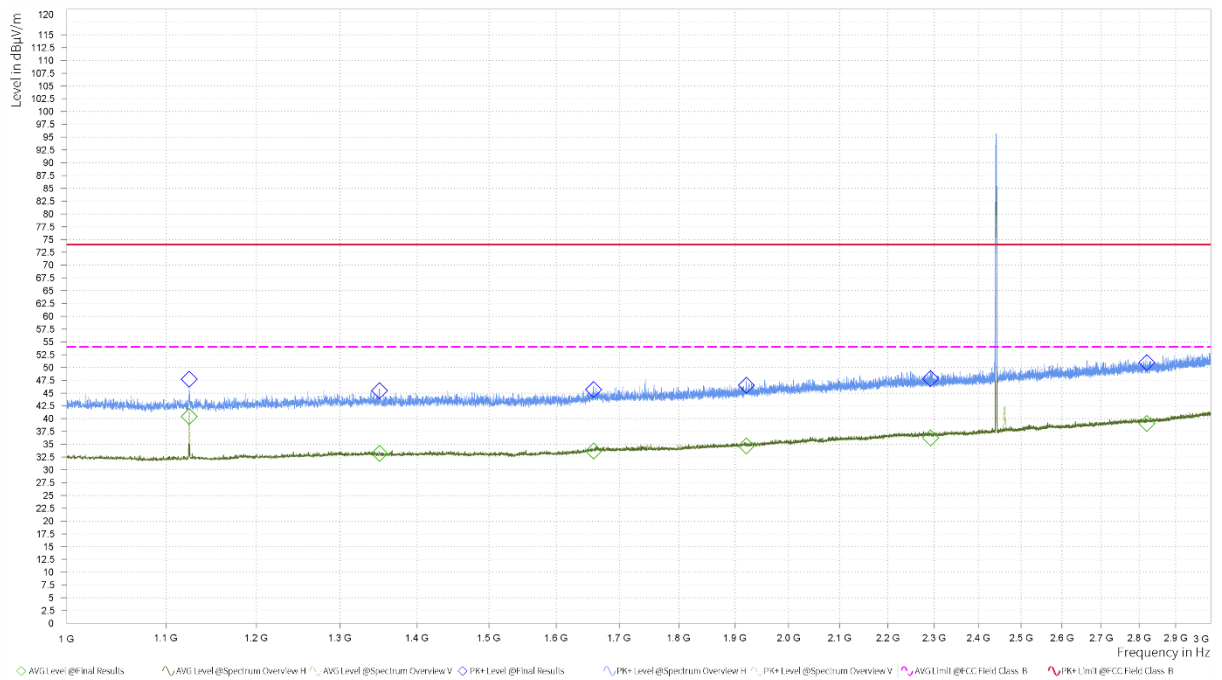
Spectrum Overview H/V



Radiates Emission from 3GHz to 18GHz

Frequency [MHz]	PK+ Level [dBμV/m]	PK+ Limit [dBμV/m]	PK+ Margin [dB]	AVG Level [dBμV/m]	AVG Limit [dBμV/m]	AVG Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]	Meas. Time [s]
3,768.750	36.57	74.00	37.43	24.57	54.00	29.43	-5.79	H	286.6	2.00	1.000
4,961.250	39.35	74.00	34.65	27.71	54.00	26.29	-1.45	V	360	2.00	1.000
5,951.250	42.59	74.00	31.41	30.32	54.00	23.68	0.97	V	314.9	2.00	1.000
6,969.375	45.62	74.00	28.38	34.22	54.00	19.78	3.26	H	60.1	2.00	1.000
8,287.500	49.83	74.00	24.17	38.14	54.00	15.86	8.80	H	0	2.00	1.000
10,978.125	47.84	74.00	26.16	35.97	54.00	18.03	6.59	H	279.2	2.00	1.000

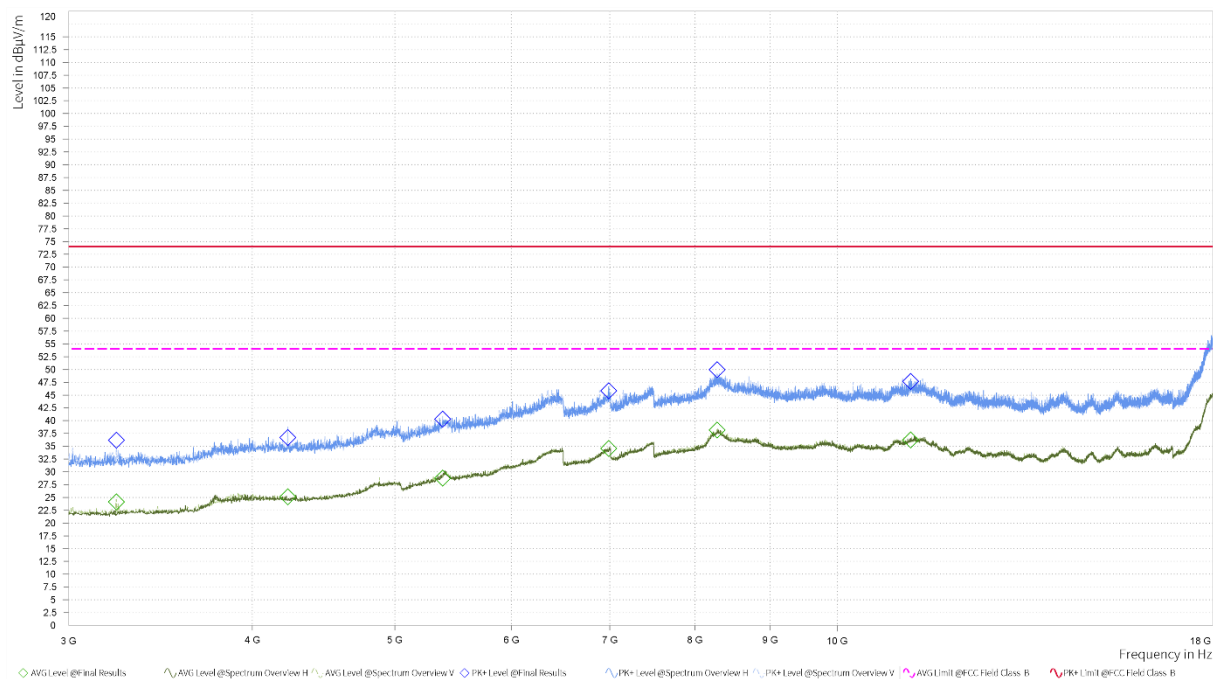
Spectrum Overview H/V



Note: The signal beyond the limit is carrier.
Radiates Emission from 1GHz to 3GHz

Frequency [MHz]	PK+ Level [dBµV/m]	PK+ Limit [dBµV/m]	PK+ Margin [dB]	AVG Level [dBµV/m]	AVG Limit [dBµV/m]	AVG Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]	Meas. Time [s]
1,124.750	47.66	74.00	26.34	40.38	54.00	13.62	6.30	V	128.3	1.00	1.000
1,350.250	45.42	74.00	28.58	33.20	54.00	20.80	6.74	H	74.1	1.00	1.000
1,658.500	45.64	74.00	28.36	33.64	54.00	20.36	7.24	H	238.7	1.00	1.000
1,920.500	46.46	74.00	27.54	34.63	54.00	19.37	8.26	H	95.8	1.00	1.000
2,292.000	47.80	74.00	26.20	36.21	54.00	17.79	10.11	H	181.3	1.00	1.000
2,821.250	50.91	74.00	23.09	39.00	54.00	15.00	12.38	V	303.4	2.00	1.000

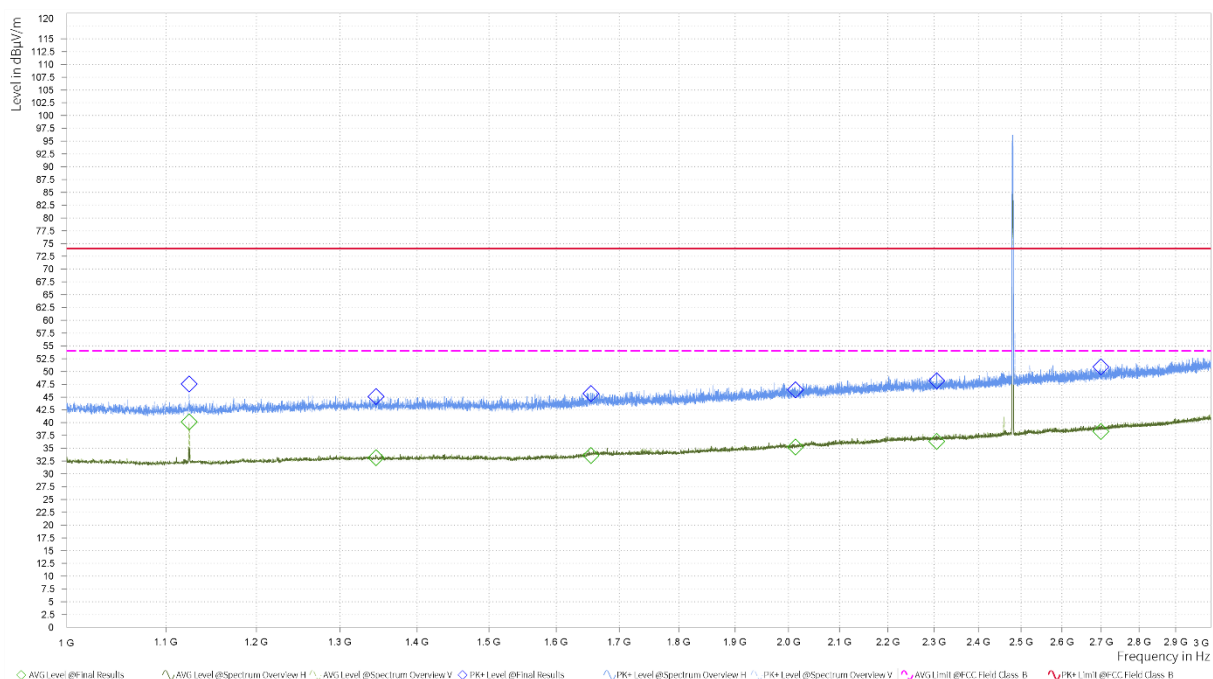
Spectrum Overview H/V



Radiates Emission from 3GHz to 18GHz

Frequency [MHz]	PK+ Level [dBµV/m]	PK+ Limit [dBµV/m]	PK+ Margin [dB]	AVG Level [dBµV/m]	AVG Limit [dBµV/m]	AVG Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]	Meas. Time [s]
3,232.500	36.14	74.00	37.86	24.09	54.00	29.91	-6.79	V	271.2	2.00	1.000
4,228.125	36.66	74.00	37.34	25.08	54.00	28.92	-4.40	V	300.5	2.00	1.000
5,388.750	40.30	74.00	33.70	28.76	54.00	25.24	-0.32	V	125.5	2.00	1.000
6,990.000	45.81	74.00	28.19	34.55	54.00	19.45	3.39	H	308.2	2.00	1.000
8,281.875	49.95	74.00	24.05	38.15	54.00	15.85	8.75	V	278.6	2.00	1.000
11,212.500	47.64	74.00	26.36	36.19	54.00	17.81	7.21	H	0	2.00	1.000

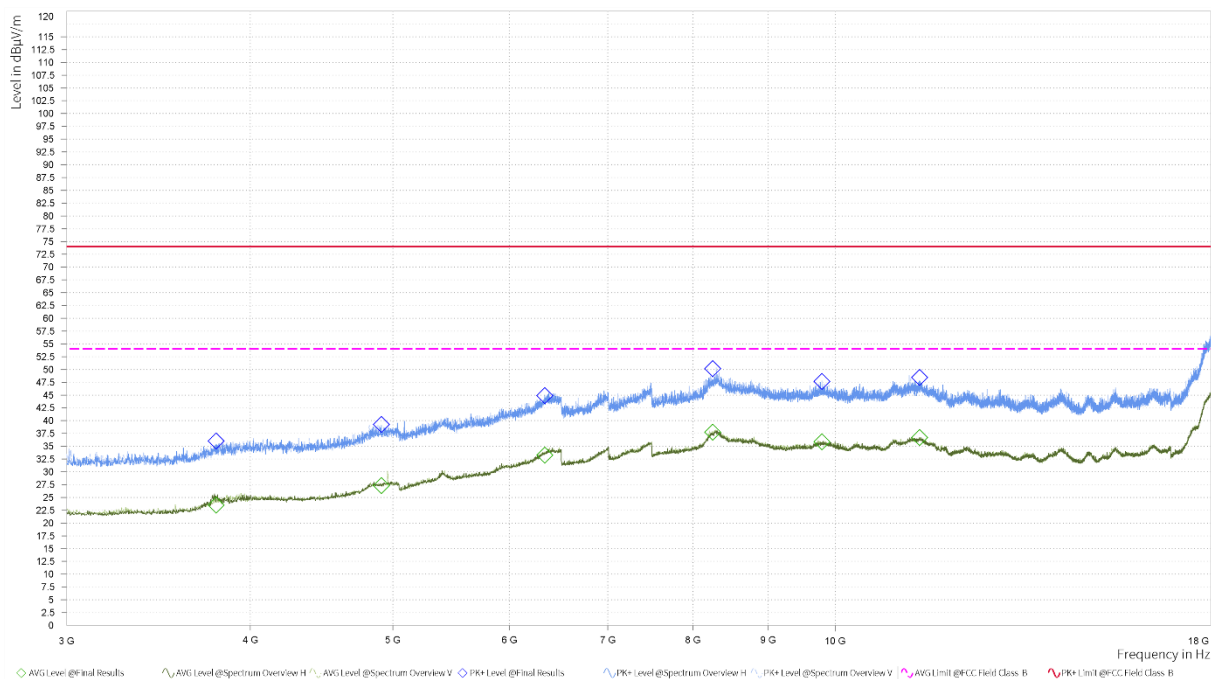
Spectrum Overview H/V



Note: The signal beyond the limit is carrier.
Radiates Emission from 1GHz to 3GHz

Frequency [MHz]	PK+ Level [dBμV/m]	PK+ Limit [dBμV/m]	PK+ Margin [dB]	AVG Level [dBμV/m]	AVG Limit [dBμV/m]	AVG Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]	Meas. Time [s]
1,124.750	47.54	74.00	26.46	40.14	54.00	13.86	6.30	V	64.6	1.00	1.000
1,346.000	45.08	74.00	28.92	33.14	54.00	20.86	6.76	H	238.7	1.00	1.000
1,654.500	45.65	74.00	28.35	33.56	54.00	20.44	7.17	H	44.7	1.00	1.000
2,013.250	46.38	74.00	27.62	35.20	54.00	18.80	8.99	V	46.3	2.00	1.000
2,305.750	48.14	74.00	25.86	36.29	54.00	17.71	10.11	H	217	1.00	1.000
2,699.500	50.88	74.00	23.12	38.23	54.00	15.77	11.73	V	0	2.00	1.000

Spectrum Overview H/V



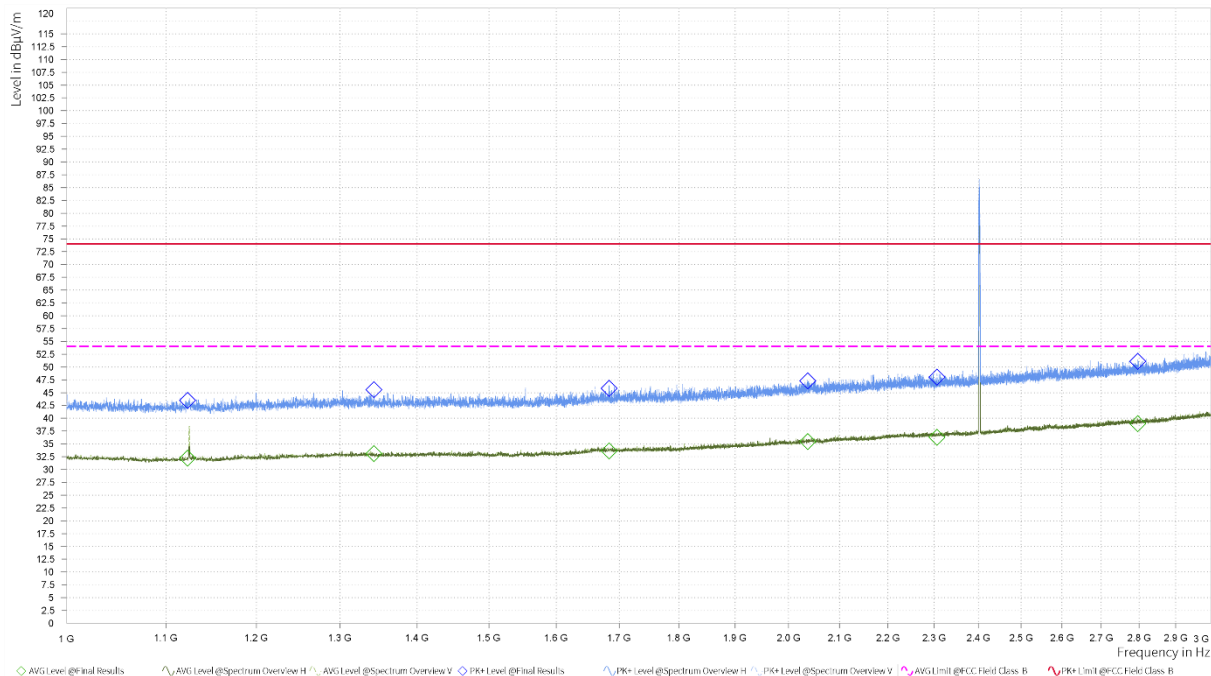
Radiates Emission from 3GHz to 18GHz

Frequency [MHz]	PK+ Level [dBμV/m]	PK+ Limit [dBμV/m]	PK+ Margin [dB]	AVG Level [dBμV/m]	AVG Limit [dBμV/m]	AVG Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]	Meas. Time [s]
3,791.250	35.98	74.00	38.02	23.50	54.00	30.50	-5.69	V	256.4	2.00	1.000
4,910.625	39.24	74.00	34.76	27.30	54.00	26.70	-1.70	H	50.4	2.00	1.000
6,343.125	44.88	74.00	29.12	33.22	54.00	20.78	3.22	H	94.6	2.00	1.000
8,251.875	50.14	74.00	23.86	37.74	54.00	16.26	8.45	V	360	2.00	1.000
9,789.375	47.62	74.00	26.38	35.86	54.00	18.14	5.60	V	357.4	2.00	1.000
11,409.375	48.40	74.00	25.60	36.67	54.00	17.33	7.42	H	94.6	2.00	1.000

The Radiates Emission was performed in all EDR mode (2DH5 and 3DH5), 3DH5 was selected as the worse condition. The test data of the worst-case condition was recorded in this report.

3DH5-Channel 0

Spectrum Overview H/V

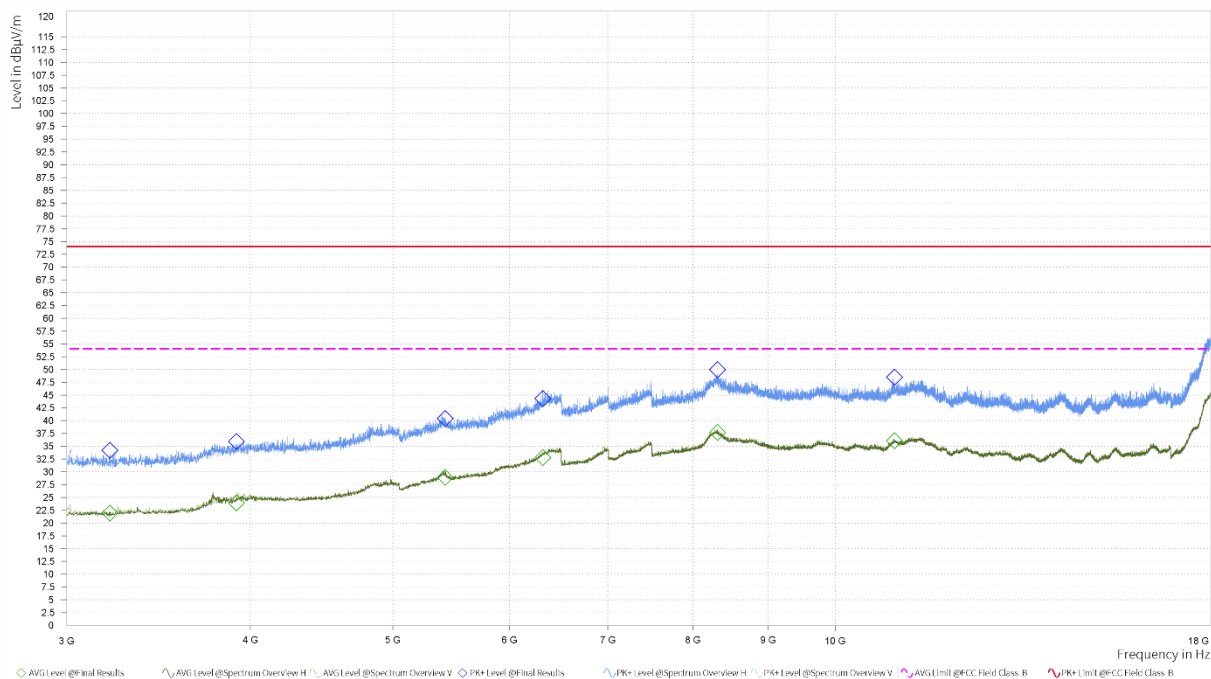


Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 3GHz

Frequency [MHz]	PK+ Level [dBμV/m]	PK+ Limit [dBμV/m]	PK+ Margin [dB]	AVG Level [dBμV/m]	AVG Limit [dBμV/m]	AVG Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]	Meas. Time [s]
1,123.000	43.45	74.00	30.55	32.18	54.00	21.82	6.27	H	175.3	2.00	1.000
1,343.250	45.56	74.00	28.44	33.07	54.00	20.93	6.78	H	202.8	2.00	1.000
1,683.500	45.80	74.00	28.20	33.58	54.00	20.42	7.15	H	271.3	2.00	1.000
2,037.250	47.29	74.00	26.71	35.40	54.00	18.60	9.27	H	107	2.00	1.000
2,306.500	47.97	74.00	26.03	36.26	54.00	17.74	10.12	V	143.7	2.00	1.000
2,796.500	51.06	74.00	22.94	38.90	54.00	15.10	12.25	V	20.1	2.00	1.000

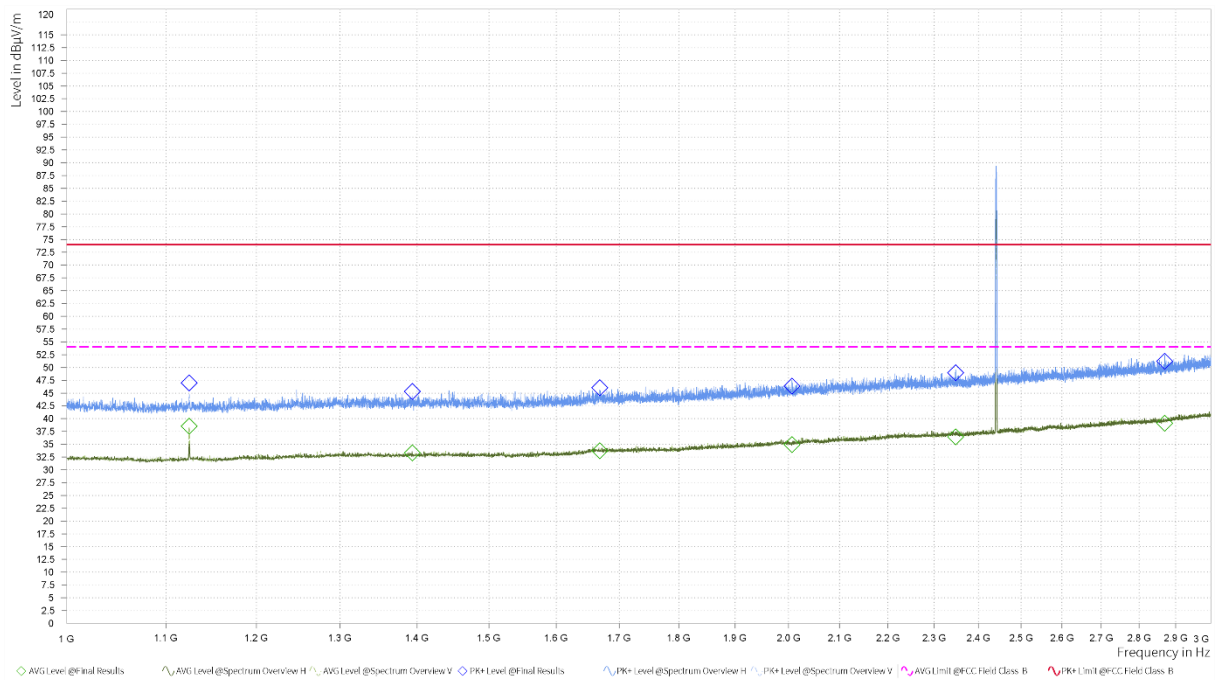
Spectrum Overview H/V



Radiates Emission from 3GHz to 18GHz

Frequency [MHz]	PK+ Level [dBµV/m]	PK+ Limit [dBµV/m]	PK+ Margin [dB]	AVG Level [dBµV/m]	AVG Limit [dBµV/m]	AVG Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]	Meas. Time [s]
3,210.000	34.15	74.00	39.85	21.91	54.00	32.09	-6.82	H	145.4	2.00	1.000
3,913.125	35.88	74.00	38.12	23.90	54.00	30.10	-5.38	H	256.2	2.00	1.000
5,426.250	40.39	74.00	33.61	28.88	54.00	25.12	-0.15	V	141	2.00	1.000
6,324.375	44.31	74.00	29.69	32.77	54.00	21.23	2.97	H	1.7	2.00	1.000
8,311.875	49.91	74.00	24.09	37.68	54.00	16.32	8.58	H	56.6	2.00	1.000
10,968.750	48.45	74.00	25.55	36.05	54.00	17.95	6.61	V	118.6	2.00	1.000

Spectrum Overview H/V

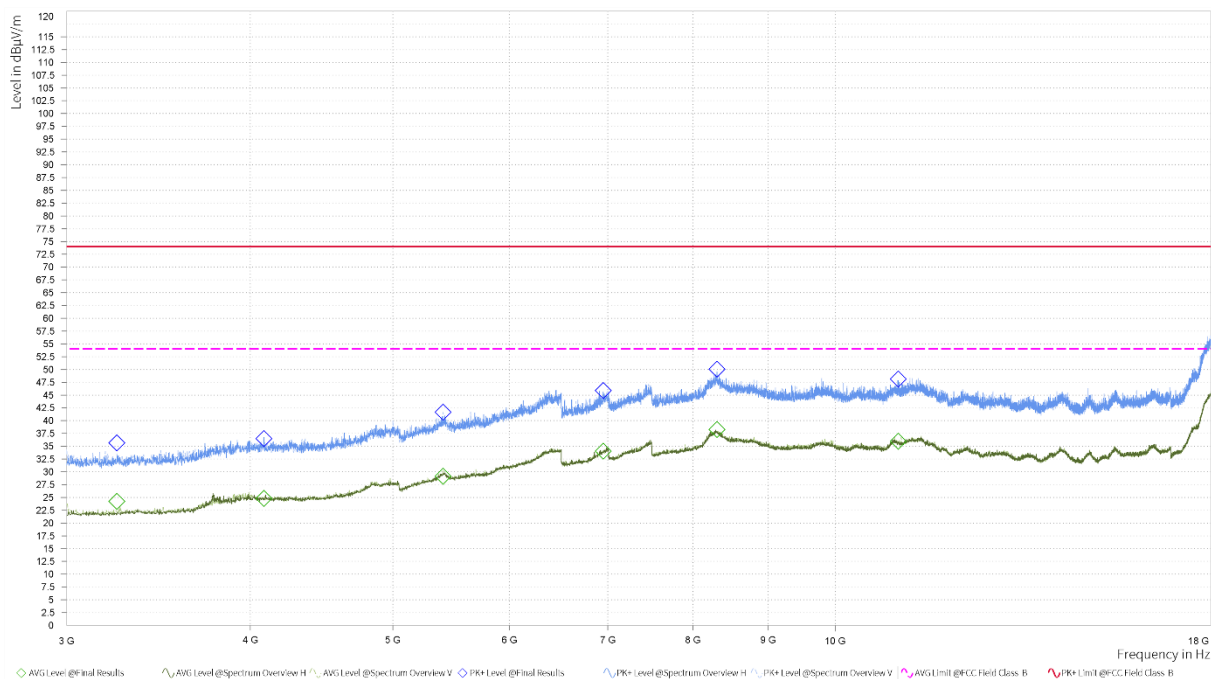


Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 3GHz

Frequency [MHz]	PK+ Level [dBµV/m]	PK+ Limit [dBµV/m]	PK+ Margin [dB]	AVG Level [dBµV/m]	AVG Limit [dBµV/m]	AVG Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]	Meas. Time [s]
1,124.750	46.96	74.00	27.04	38.50	54.00	15.50	6.30	V	61	2.00	1.000
1,393.500	45.26	74.00	28.74	33.28	54.00	20.72	6.82	V	95.2	2.00	1.000
1,668.500	46.04	74.00	27.96	33.71	54.00	20.29	7.21	H	215.9	2.00	1.000
2,006.750	46.31	74.00	27.69	34.90	54.00	19.10	8.91	H	333.2	2.00	1.000
2,347.750	48.94	74.00	25.06	36.40	54.00	17.60	10.44	H	126.4	2.00	1.000
2,869.750	51.18	74.00	22.82	39.06	54.00	14.94	12.55	H	30.6	2.00	1.000

Spectrum Overview H/V

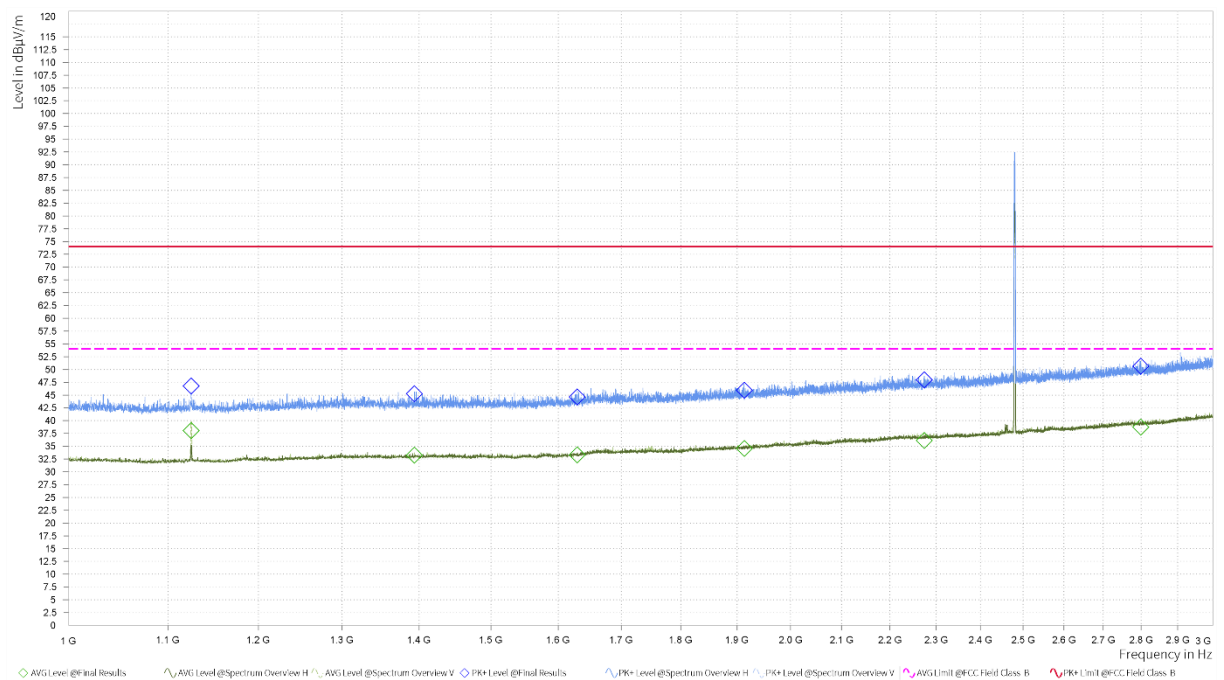


Radiates Emission from 3GHz to 18GHz

Frequency [MHz]	PK+ Level [dBμV/m]	PK+ Limit [dBμV/m]	PK+ Margin [dB]	AVG Level [dBμV/m]	AVG Limit [dBμV/m]	AVG Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]	Meas. Time [s]
3,245.625	35.62	74.00	38.38	24.18	54.00	29.82	-6.73	V	274.9	2.00	1.000
4,085.625	36.49	74.00	37.51	24.80	54.00	29.20	-4.90	H	48.7	2.00	1.000
5,409.375	41.66	74.00	32.34	29.12	54.00	24.88	0.06	V	193.3	2.00	1.000
6,950.625	45.88	74.00	28.12	34.00	54.00	20.00	3.13	H	345.5	2.00	1.000
8,306.250	50.03	74.00	23.97	38.23	54.00	15.77	8.68	H	55.9	2.00	1.000
11,034.375	48.10	74.00	25.90	35.93	54.00	18.07	6.48	H	159.2	2.00	1.000

3DH5-Channel 78

Spectrum Overview H/V

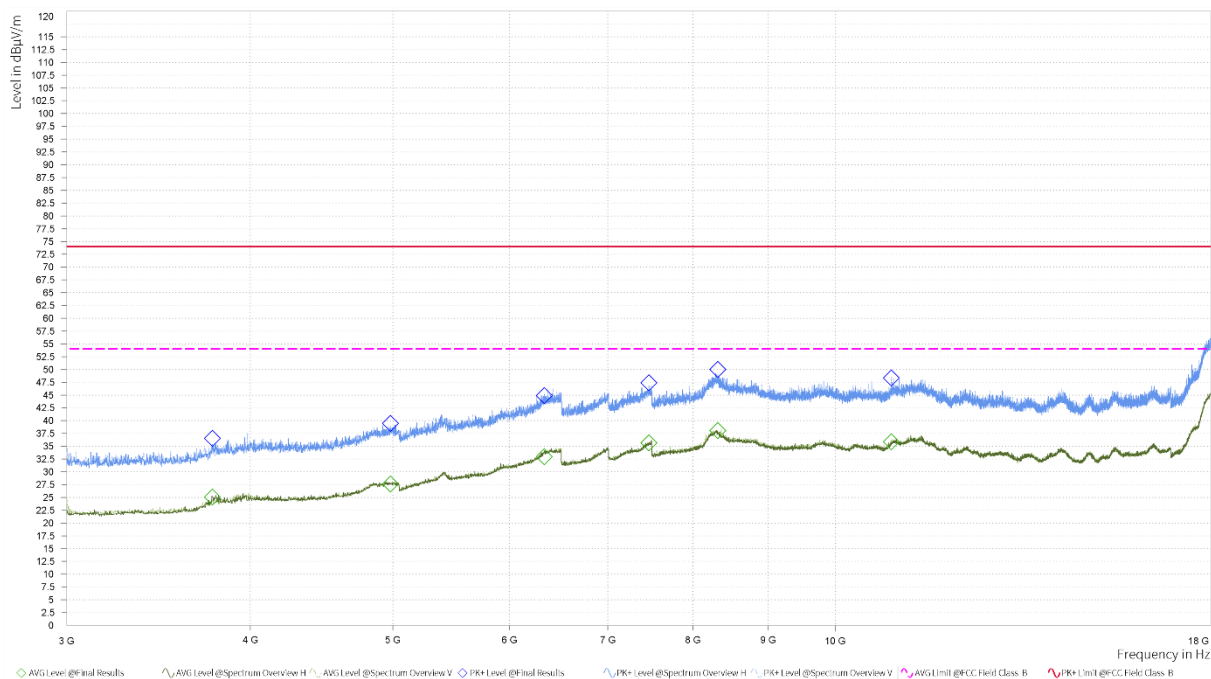


Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 3GHz

Frequency [MHz]	PK+ Level [dBµV/m]	PK+ Limit [dBµV/m]	PK+ Margin [dB]	AVG Level [dBµV/m]	AVG Limit [dBµV/m]	AVG Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]	Meas. Time [s]
1,124.750	46.76	74.00	27.24	38.02	54.00	15.98	6.30	V	124.5	1.00	1.000
1,393.750	45.25	74.00	28.75	33.25	54.00	20.75	6.82	H	192.7	2.00	1.000
1,629.750	44.63	74.00	29.37	33.27	54.00	20.73	7.01	V	26.5	2.00	1.000
1,913.250	45.93	74.00	28.07	34.52	54.00	19.48	8.21	H	104	1.00	1.000
2,273.750	47.93	74.00	26.07	36.12	54.00	17.88	10.04	H	2.9	1.00	1.000
2,799.250	50.58	74.00	23.42	38.71	54.00	15.29	12.27	H	360	1.00	1.000

Spectrum Overview H/V



Radiates Emission from 3GHz to 18GHz

Frequency [MHz]	PK+ Level [dBμV/m]	PK+ Limit [dBμV/m]	PK+ Margin [dB]	AVG Level [dBμV/m]	AVG Limit [dBμV/m]	AVG Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]	Meas. Time [s]
3,768.750	36.54	74.00	37.46	25.06	54.00	28.94	-5.79	H	285.5	2.00	1.000
4,981.875	39.47	74.00	34.53	27.61	54.00	26.39	-1.39	V	334.3	2.00	1.000
6,337.500	44.87	74.00	29.13	32.90	54.00	21.10	3.15	H	330.2	2.00	1.000
7,466.250	47.38	74.00	26.62	35.66	54.00	18.34	3.78	H	248.5	2.00	1.000
8,317.500	49.97	74.00	24.03	38.01	54.00	15.99	8.49	V	304.7	2.00	1.000
10,912.500	48.30	74.00	25.70	35.83	54.00	18.17	6.21	V	67.3	2.00	1.000

5.2 Conducted Emission

Ambient condition

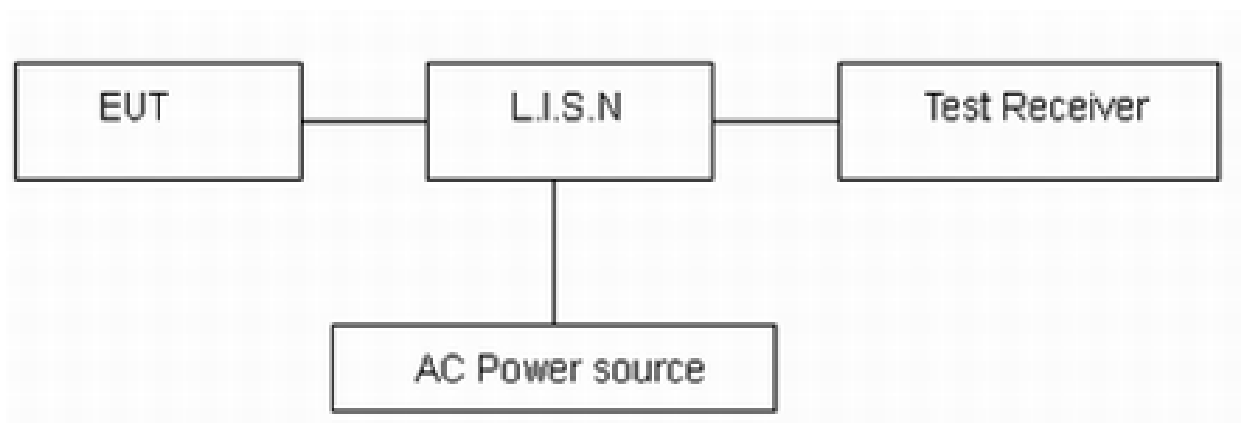
Temperature	Relative humidity	Pressure
15°C ~ 35°C	20% ~ 80%	86 kPa ~ 106 kPa

Methods of Measurement

The EUT is placed on a non-metallic table of 80cm height above the horizontal metal reference ground plane. During the test, the EUT was operating in its typical mode. The test method is according to ANSI C63.10. Connect the AC power line of the EUT to the L.I.S.N. Use EMI receiver to detect the average and Quasi-peak value. RBW is set to 9 kHz, VBW is set to 30kHz. The measurement result should include both L line and N line.

The test is in transmitting mode.

Test Setup



Note: AC Power source is used to 120V/60Hz.

Limits

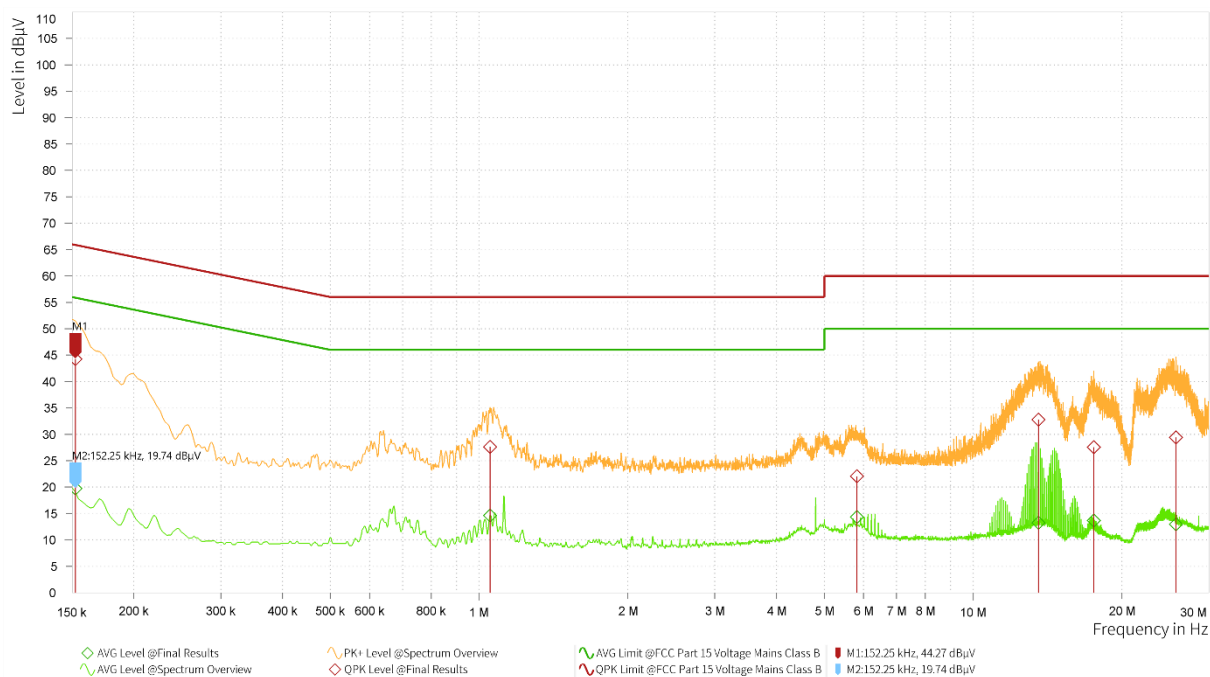
Frequency (MHz)	Conducted Limits(dBμV)	
	Quasi-peak	Average
0.15 - 0.5	66 to 56 *	56 to 46*
0.5 - 5	56	46
5 - 30	60	50
*: Decreases with the logarithm of the frequency.		

Measurement Uncertainty

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor $k = 1.96$, $U=2.69$ dB.

Test Results:

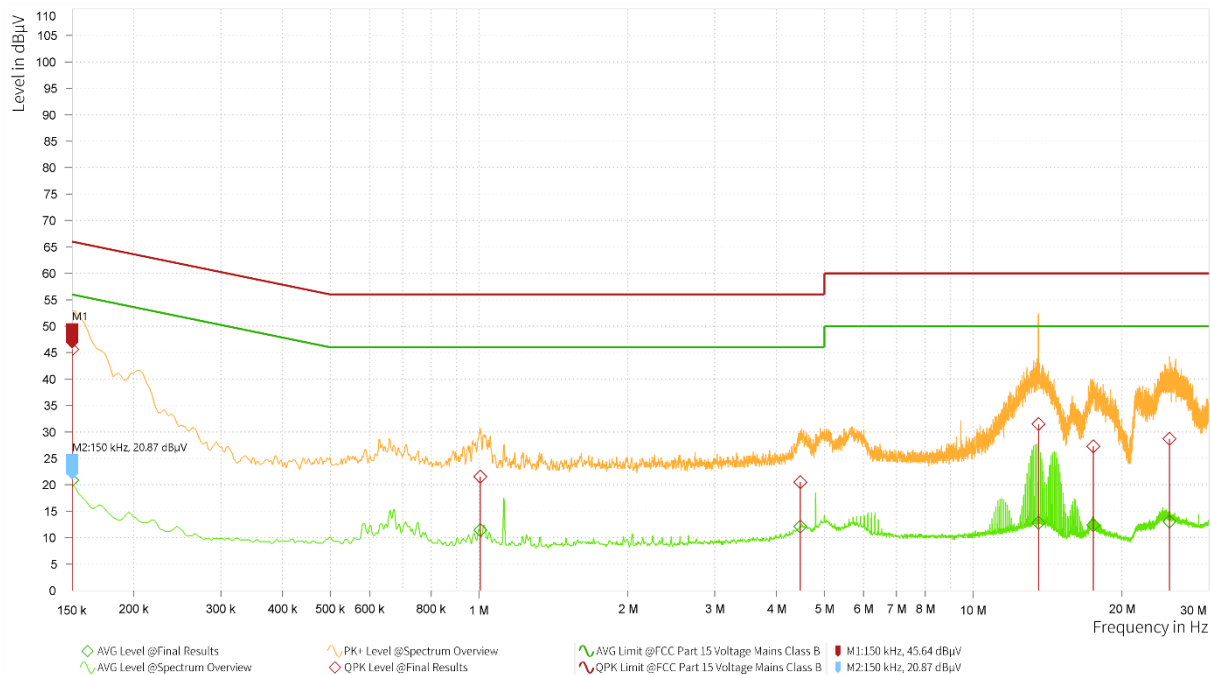
During the test, the Conducted Emission was performed in all modes with all channel. The test data of the worst-case condition (DH5-Channel 0) was recorded in this report.



Frequency [MHz]	QPK Level [dBμV]	QPK Limit [dBμV]	QPK Margin [dB]	AVG Level [dBμV]	AVG Limit [dBμV]	AVG Margin [dB]	Correction [dB]	Line	Meas. BW [kHz]	Meas. Time [s]
0.152	44.27	65.88	21.60	19.74	55.88	36.14	20.90	L1	9.000	1.000
1.052	27.63	56.00	28.37	14.63	46.00	31.37	20.12	L1	9.000	1.000
5.818	22.05	60.00	37.95	14.31	50.00	35.69	19.40	L1	9.000	1.000
13.558	32.80	60.00	27.20	13.25	50.00	36.75	19.46	L1	9.000	1.000
17.552	27.58	60.00	32.42	13.68	50.00	36.32	19.58	L1	9.000	1.000
25.757	29.42	60.00	30.58	12.97	50.00	37.03	19.81	L1	9.000	1.000

Remark: Correct factor=cable loss + LISN factor

L line Conducted Emission from 150 kHz to 30 MHz



Frequency [MHz]	QPK Level [dBµV]	QPK Limit [dBµV]	QPK Margin [dB]	AVG Level [dBµV]	AVG Limit [dBµV]	AVG Margin [dB]	Correction [dB]	Line	Meas. BW [kHz]	Meas. Time [s]
0.150	45.64	66.00	20.36	20.87	56.00	35.13	20.91	N	9.000	1.000
1.005	21.55	56.00	34.45	11.44	46.00	34.56	20.17	N	9.000	1.000
4.472	20.51	56.00	35.49	12.10	46.00	33.90	19.42	N	9.000	1.000
13.558	31.48	60.00	28.52	12.80	50.00	37.20	19.49	N	9.000	1.000
17.509	27.26	60.00	32.74	12.39	50.00	37.61	19.62	N	9.000	1.000
24.965	28.69	60.00	31.31	13.05	50.00	36.95	19.87	N	9.000	1.000

Remark: Correct factor=cable loss + LISN factor

N line Conducted Emission from 150 kHz to 30 MHz

6 Main Test Instruments

Name	Manufacturer	Type	Serial Number	Calibration Date	Expiration Date
EMI Test Receiver	R&S	ESR	102721	2025-05-06	2026-05-05
Loop Antenna	SCHWARZBEC K	FMZB1519	1519-047	2023-04-16	2026-04-15
TRILOG Broadband Antenna	SCHWARZBEC K	VULB 9163	01614	2023-09-13	2026-09-12
Signal Analyzer	R&S	FSV3044	101132	2025-05-06	2026-05-05
Horn Antenna	R&S	HF907	102724	2024-7-23	2027-7-22
Horn Antenna	ETS-Lindgren	3160-09	00102643	2024-09-24	2027-09-23
Software	R&S	ELEKTRA	5.02.1	/	/
Artificial main network	R&S	ENV216	102191	2024-12-02	2026-12-01
EMI Test Receiver	R&S	ESR	101667	2025-05-06	2026-05-05
Software	R&S	EMC32	10.35.10	/	/

ANNEX A: The EUT Appearance

The EUT Appearance are submitted separately.

ANNEX B: Test Setup Photos

The Test Setup Photos are submitted separately.

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