

TEST REPORT

Applicant: iApartments Holdings, Inc.
Address: 201 E. Kennedy Blvd Suite 1925 Tampa, FL 33602
United States
Equipment Type: iApartments Thermostat Hub Gen2
Model Name: TN41024WH
Brand Name: iApartments
FCC ID: 2AVIHTN410
Test Standard: 47 CFR Part 15 Subpart C
(refer to section 3.1)
Sample Arrival Date: Nov. 19, 2025
Test Date: Nov. 30, 2025 - Dec. 12, 2026
Date of Issue: Jan. 28, 2026

ISSUED BY:

Shanghai Tejet Communications Technology Co., Ltd. Testing Center

**Prepared by:** Chen Wenwen**Reviewed by:** Hai Su**Approved by:** Zhang Yanqing
(Laboratory Manager)Chen wenwenHai SuZhang Yanqing

Revision History

Version	Issue Date	Revisions
<u>Rev. 01</u>	<u>Jan. 28, 2026</u>	<u>Initial Issue</u>

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1 GENERAL INFORMATION

1.1 Test Laboratory

Name	Shanghai Tejet Communications Technology Co., Ltd. Testing Center
Address	1-2/F., Building 1, No.222, Xuanlan Road, Xuanqiao, Pudong New District, Shanghai, China

1.2 Test Location

Name	Shanghai Tejet Communications Technology Co., Ltd. Testing Center
Location	1-2/F., Building 1, No.222, Xuanlan Road, Xuanqiao, Pudong New District, Shanghai, China
Accreditation Certificate	The laboratory is a testing organization accredited by FCC as a accredited testing laboratory. The designation number is CN1352.

2 PRODUCT INFORMATION

2.1 Applicant Information

Applicant	iApartments Holdings, Inc.
Address	201 E. Kennedy Blvd Suite 1925 Tampa, FL 33602 United States

2.2 Manufacturer Information

Manufacturer	iApartments Holdings, Inc.
Address	201 E. Kennedy Blvd Suite 1925 Tampa, FL 33602 United States

2.3 General Description for Equipment under Test (EUT)

EUT Name	iApartments Thermostat Hub Gen2
Model Name Under Test	TN41024WH
Series Model Name	N/A
Description of Model name differentiation	N/A
Serial Number	SC-SZ25B0679-S03
Hardware Version	v4.1.0
Software Version	v1.0.0
Dimensions (Approx.)	N/A
Weight (Approx.)	N/A

2.4 Technical Information

Network and Wireless connectivity	3G Network WCDMA Band 2/4/5 4G Network FDD LTE Band 2/4/5/7/12/13/25/26 BLE: 1M&2M Z-Wave 868MHz/908.4MHz/912MHz/916MHz 2.4G WIFI 802.11b, 802.11g, 802.11n(HT20/40)
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The requirement for the following technical information of the EUT was tested in this report:

Modulation Technology	GFSK
Modulation Type	FSK
Frequency Range	The frequency range used is 908.4 MHz and 916 MHz.
Tested Channel	908.4 MHz and 916 MHz
Antenna Type	PIFA Antenna
Antenna Gain	1.5 dBi

3 SUMMARY OF TEST RESULTS

3.1 Test Standards

No.	Identity	Document Title
1	47 CFR Part 15 Subpart C	Miscellaneous Wireless Communications Services
2	ANSI C63.10-2020	American National Standard for Procedures For Compliance Testing Of Unlicensed Wireless Devices
3	KDB 558074 D01 15.247 Meas Guidance v05r02	Guidance for compliance measurements on digital transmission system, frequency hopping spread spectrum system, and hybrid system devices operating under section 15.247 of the FCC rules

3.2 Test Verdict

No.	Description	FCC Part No.	ISED Part No.	Test Result	Verdict	Remark
1	Antenna Requirement	15.203	N/A	--	Pass	Note ¹
2	20 dB and 99% Bandwidth	15.215(c)	N/A	ANNEX A.1	Pass	--
3	AC Conducted Emission	15.207	N/A	ANNEX A.2	Pass	Note ²
4	Radiated Spurious Emission	15.249(a)	N/A	ANNEX A.3	Pass	--
5	Band Edge(Restricted-band band-edge)	15.249(a)	N/A	ANNEX A.4	Pass	--

Note ¹: The EUT has a permanently and irreplaceable attached antenna, which complies with the requirement FCC 15.203.

Note ²: The EUT is only powered by DC supply.

4 GENERAL TEST CONFIGURATIONS

4.1 Test Environments

During the measurement, the normal environmental conditions were within the listed ranges:

Relative Humidity	50% to 55%	
Atmospheric Pressure	100 kPa to 102 kPa	
Temperature	NT (Normal Temperature)	+20.1°C to +23.8°C
Working Voltage of the EUT	NV (Normal Voltage)	32 V

4.2 Test Equipment List

Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due
Spectrum Analyzer	KEYSIGHT	N9020A	BH-EMC-L066	2025.02.12	2026.02.11
Spectrum Analyzer	KEYSIGHT	N9010B	BH-EMC-L099	2025.02.12	2026.02.11
Signal Generator	Anritsu	MG3710E	BH-EMC-L131	2025.02.12	2026.02.11
Wideband Radio Communication Tester	R&S	CMW500	BH-EMC-L094	2025.02.11	2026.02.10
EMI Receiver	KEYSIGHT	N9038A	BH-EMC-L015	2025.07.04	2026.07.03
Test Antenna-Loop(9 kHz-30 MHz)	SCHWARZBECK	FMZB 1519 B	BH-EMC-L067	2024.03.11	2027.03.10
Test Antenna-Bi-Log(30 MHz-3 GHz)	SCHWARZBECK	VULB 9163	BH-EMC-L008	2024.03.11	2027.03.10
Test Antenna-Horn(1-18 GHz)	SCHWARZBECK	BBHA 9120D	BH-EMC-L044	2024.03.11	2027.03.10
Test Antenna-Horn (18-40 GHz)	A-INFO	LB-180400-KF	BH-EMC-L061	2024.03.11	2027.03.10
Anechoic Chamber	YiHeng	9m*6m*6m	BH-EMC-L001	2024.04.18	2027.04.17
EMI Receiver	KEYSIGHT	N9038A	BH-EMC-L127	2025.02.12	2026.02.11
LISN	SCHWARZBECK	NSLK 8127	BH-EMC-L011	2025.02.11	2026.02.10
10dB Limiter	SCHWARZBECK	VTSD 9561-F	BH-EMC-L014	2025.02.11	2026.02.10
Shielded Room	YiHeng	5m*4m*3.2m	BH-EMC-L006	2024.02.22	2027.02.21

4.3 Test Software List

Description	Manufacturer	Software Version	Serial No.	Applicable Test Setup
BL410R	BALUN	V2.1.1.496	N/A	The section 4.6.1
BL410E	BALUN	V21.919	N/A	The section 4.6.2&4.6.3&4.6.4&4.6.5

4.4 Measurement Uncertainty

The following measurement 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 $k=2$.

Parameters	Uncertainty
Occupied Channel Bandwidth	2.40 %
RF output power, conducted	0.41 dB
Power Spectral Density, conducted	1.74 dB
Unwanted Emissions, conducted	1.74 dB
All emissions, radiated	3.70 dB
Temperature	0.82 °C
Humidity	4.08 %

4.5 Decision Rule

- ☐ No Need
☒ Use General conformity decision rule (Consider uncertainty or not ☒No ☐Yes)
☐ Use Special Conformity Decision Rule (Consider uncertainty or not ☐No ☐Yes)

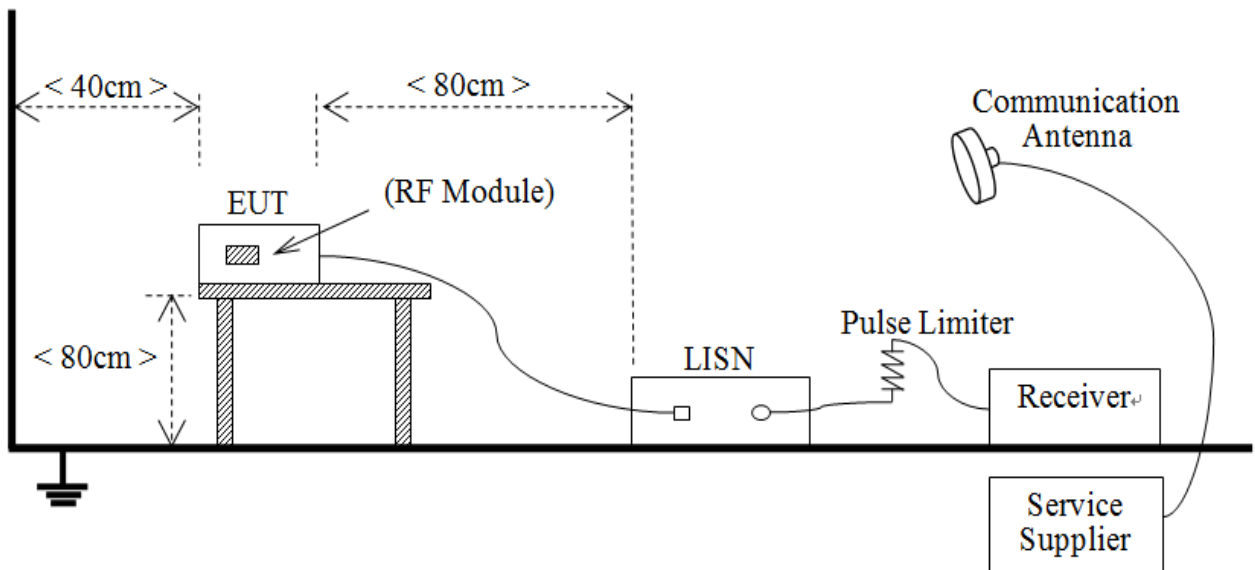
4.6 Description of Test Setup

4.6.1 For Antenna Port Test



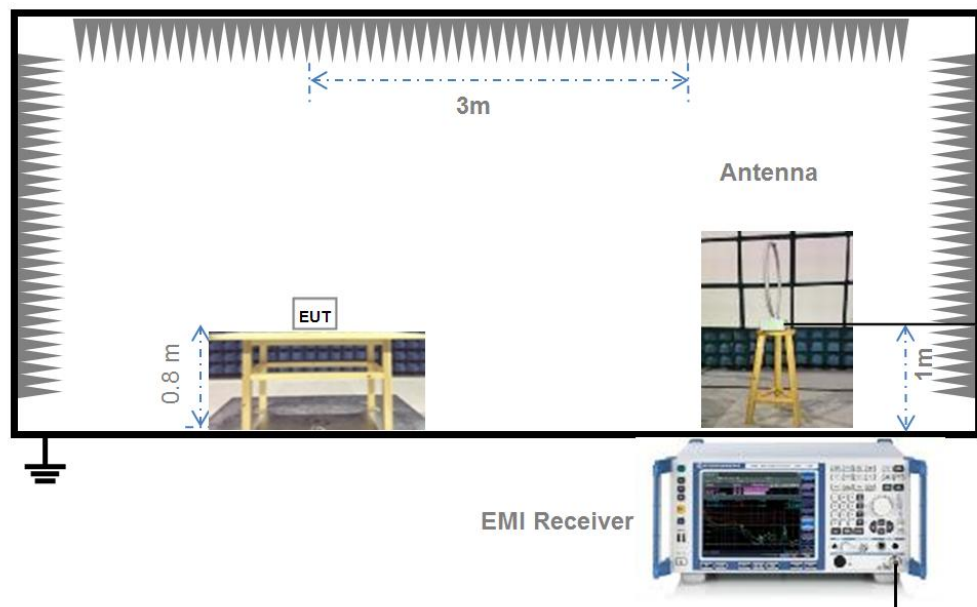
(Diagram 1)

4.6.2 For AC Power Supply Port Test



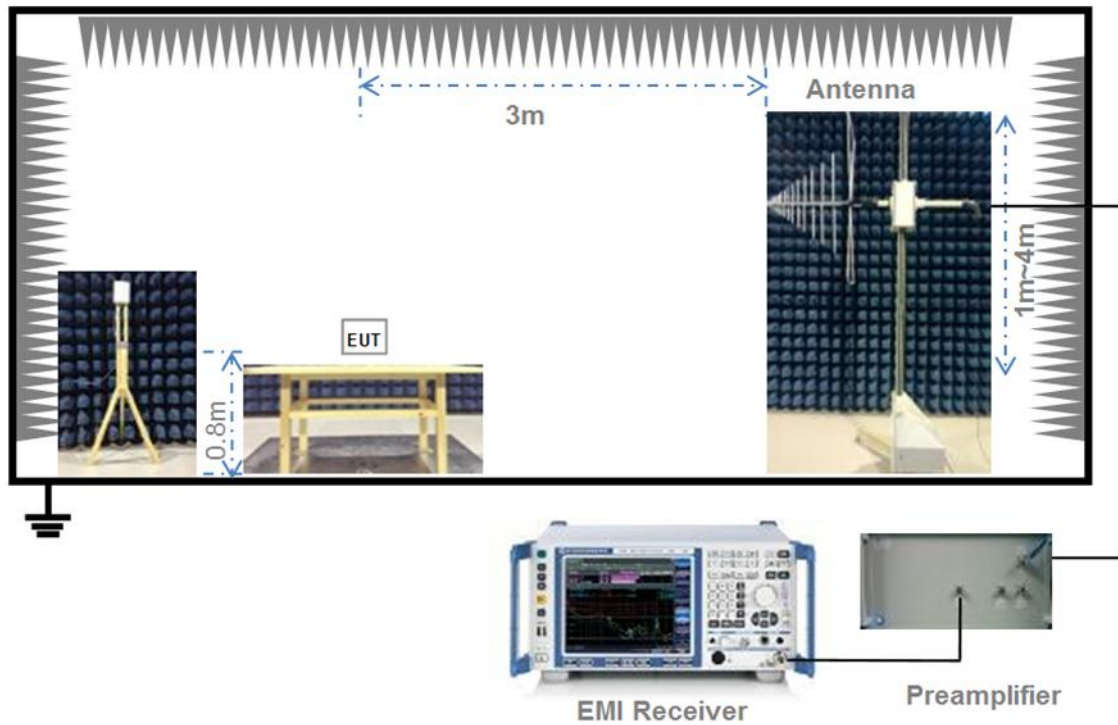
(Diagram 2)

4.6.3 For Radiated Test (Below 30 MHz)



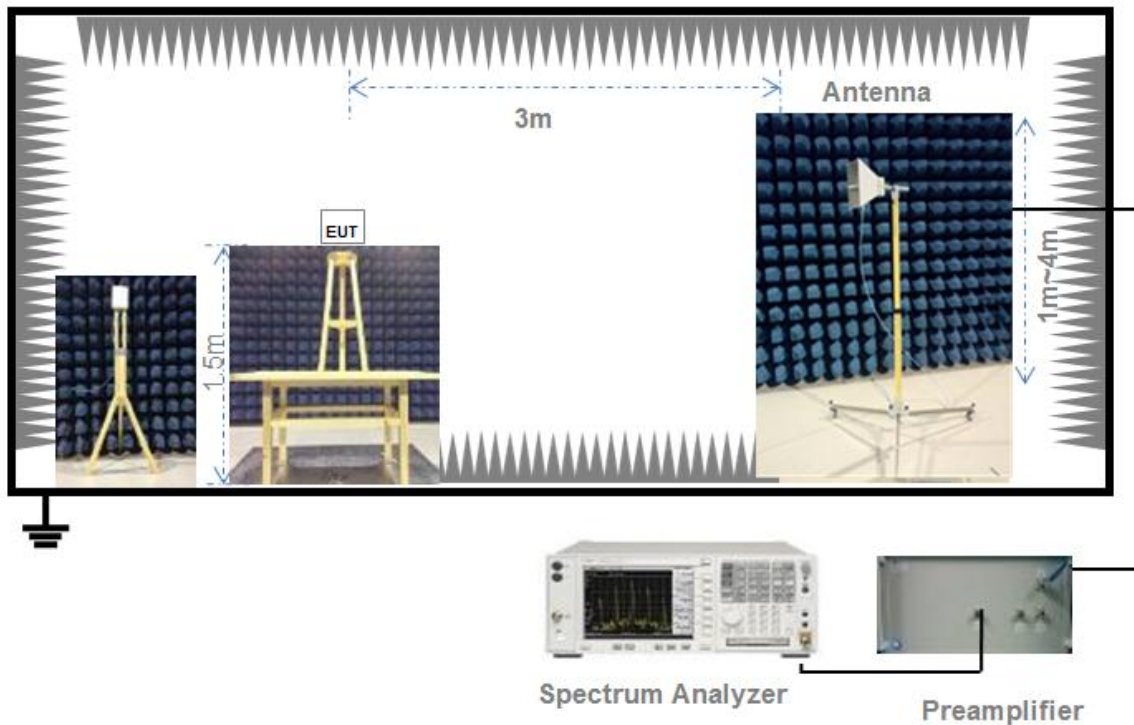
(Diagram 3)

4.6.4 For Radiated Test (30 MHz-1 GHz)



(Diagram 4)

4.6.5 For Radiated Test (Above 1 GHz)



(Diagram 5)

4.7 Measurement Results Explanation Example

4.7.1 For conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuator between EUT conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly the EUT RF output level.

The spectrum analyzer offset is derived from RF cable loss and attenuator factor.

Offset = RF cable loss + attenuator factor.

4.7.2 For radiated band edges and spurious emission test:

$$E = \text{EIRP} - 20\log D + 104.8$$

where:

E = electric field strength in dB μ V/m,

EIRP = equivalent isotropic radiated power in dBm

D = specified measurement distance in meters.

5 TEST ITEMS

5.1 Antenna Requirements

5.1.1 Relevant Standards

FCC §15.203 & 15.247(b)

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall 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. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of § 15.211, § 15.213, § 15.217, § 15.219, or § 15.221. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with § 15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

If directional gain of transmitting antennas is greater than 6 dBi, the power shall be reduced by the same level in dB comparing to gain minus 6 dBi. For the fixed point-to-point operation, the power shall be reduced by one dB for every 3 dB that the directional gain of the antenna exceeds 6 dBi. 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 FCC rule.

5.1.2 Antenna Anti-Replacement Construction

The Antenna Anti-Replacement as following method:

Protected Method	Description
The antenna is embedded in the product.	An embedded-in antenna design is used.

Reference Documents	Item
Photo	Please refer to the EUT Photo documents.

5.1.3 Antenna Gain

The antenna peak gain of EUT is less than 6 dBi. Therefore, it is not necessary to reduce maximum peak output power limit.

5.2 20 dB and 99% Bandwidth

5.2.1 Limit

FCC §15.215(c)

Intentional radiators operating under the alternative provisions to the general emission limits, as contained in § 15.217 through 15.257 and in Subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated.

RSS-Gen 6.6

The emission bandwidth (×dB) is defined as the frequency range between two points, one above and one below the carrier frequency, at which the spectral density of the emission is attenuated × dB below the maximum in-band spectral density of the modulated signal. Spectral density (power per unit bandwidth) is to be measured with a detector of resolution bandwidth in the range of 1% to 5% of the anticipated emission bandwidth, and a video bandwidth at least 3× the resolution bandwidth.

When the occupied bandwidth limit is not stated in the applicable RSS or reference measurement method, the transmitted signal bandwidth shall be reported as the 99% emission bandwidth, as calculated or measured

5.2.2 Test Setups

See section 4.4.1 for test setup description for the antenna port. The photo of test setup please refer to ANNEX B.

5.2.3 Test Procedure

Use the following spectrum analyzer settings:

Span = approximately 2 to 3 times the 20 dB bandwidth, centered on a hopping channel

RBW ≥ 1% of the 20 dB bandwidth

VBW ≥ RBW

Sweep = auto

Detector function = peak

Trace = max hold

5.2.4 Test Result

Please refer to ANNEX A.1.

5.3 AC Conducted Emission

5.3.1 Limit

FCC §15.207

For an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency within the band 150 kHz to 30 MHz shall not exceed the limits in the following table, as measured using a 50 μ H/50 Ω line impedance stabilization network (LISN).

Frequency range (MHz)	Conducted Limit (dB μ V)	
	Quai-peak	Average
0.15 - 0.50	66 to 56	56 to 46
0.50 - 5	56	46
5 - 30	60	50

5.3.2 Test Setups

See section 4.4.1 for test setup description for the antenna port. The photo of test setup please refer to ANNEX B.

5.3.3 Test Procedure

The maximum conducted interference is searched using Peak (PK), if the emission levels more than the AV and QP limits, and that have narrow margins from the AV and QP limits will be re-measured with AV and QP detectors. Tests for both L phase and N phase lines of the power mains connected to the EUT are performed.

Devices subject to Part 15 must be tested for all available U.S. voltages and frequencies (such as a nominal 120 VAC, 50/60 Hz and 240 VAC, 50/60 Hz) for which the device is capable of operation. A device rated for 50/60 Hz operation need not be tested at both frequencies provided the radiated and line conducted emissions are the same at both frequencies.

5.3.4 Test Result

Please refer to ANNEX A.2.

5.4 Radiated Spurious Emission

5.4.1 Limit

FCC §15.249(a)

Except as provided in paragraph (a) of this section, the field strength of emissions from intentional radiators operated within these frequency bands shall comply with the following:

Frequency (MHz)	Field Strength of Fundamental (mV/m)	Field Strength of Harmonics (μV/m)
902-928	50	500
2400-2483.5	50	500
5725-5875	50	500

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in §15.209, whichever is the lesser attenuation.

According to FCC section 15.209 (a), except as provided elsewhere in this subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

Frequency (MHz)	Field Strength (μV/m)	Measurement Distance (m)
0.009 - 0.490	2400/F(kHz)	300
0.490 - 1.705	24000/F(kHz)	30
1.705 - 30.0	30	30
30 - 88	100	3
88 - 216	150	3
216 - 960	200	3
Above 960	500	3

Note:

1. For Above 1000 MHz, the emission limit in this paragraph is based on measurement instrumentation employing an average detector, measurement using instrumentation with a peak detector function, corresponding to 20 dB above the maximum permitted average limit.
2. For above 1000 MHz, limit field strength of harmonics: 54dBuV/m@3m (AV) and 74dBuV/m@3m (PK).

5.4.2 Test Setups

See section 4.4.2-4.4.5 for test setup description for the antenna port. The photo of test setup please refer to ANNEX B.

5.4.3 Test Procedure

The measurement frequency range is from 9 kHz to the 10th harmonic of the fundamental frequency. The Turn Table is actuated to turn from 0° to 360°, and both horizontal and vertical polarizations of the Test Antenna are used to find the maximum radiated power. Mid channels on all channel bandwidth verified. Only the worst RB size/offset presented. The power of the EUT transmitting frequency should be ignored.

All Spurious Emission tests were performed in X, Y, Z axis direction. And only the worst axis test condition was recorded in this test report.

Use the following spectrum analyzer settings:

Span = wide enough to fully capture the emission being measured

RBW = 1 MHz for $f \geq 1$ GHz, 100 kHz for $f < 1$ GHz

VBW $\geq$ RBW

Sweep = auto

Detector function = peak

Trace = max hold

5.4.4 Test Result

Please refer to ANNEX A.3.

5.5 Band Edge (Restricted-band band-edge)

5.5.1 Limit

FCC §15.249(a)

Radiated emission outside the frequency band attenuation below the general limits specified in FCC section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in FCC section 15.205(a), must also comply with the radiated emission limits specified in FCC section 15.209(a).

5.5.2 Test Setups

See section 4.4.3 to 4.4.5 for test setup description for the antenna port. The photo of test setup please refer to ANNEX B.

5.5.3 Test Procedure

The measurement frequency range is from 9 kHz to the 10th harmonic of the fundamental frequency. The Turn Table is actuated to turn from 0° to 360°, and both horizontal and vertical polarizations of the Test Antenna are used to find the maximum radiated power. Mid channels on all channel bandwidth verified. Only the worst RB size/offset presented.

The power of the EUT transmitting frequency should be ignored.

All Spurious Emission tests were performed in X, Y, Z axis direction. And only the worst axis test condition was recorded in this test report.

Use the following spectrum analyzer settings:

Span = wide enough to fully capture the emission being measured

RBW = 1 MHz for $f \geq 1$ GHz, 100 kHz for $f < 1$ GHz

VBW $\geq$ RBW

Sweep = auto

Detector function = peak

Trace = max hold

For measurement below 1GHz, If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported, Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.

5.5.4 Test Result

Please refer to ANNEX A.4.

ANNEX A TEST RESULT

A.1 20 dB and 99% Bandwidth

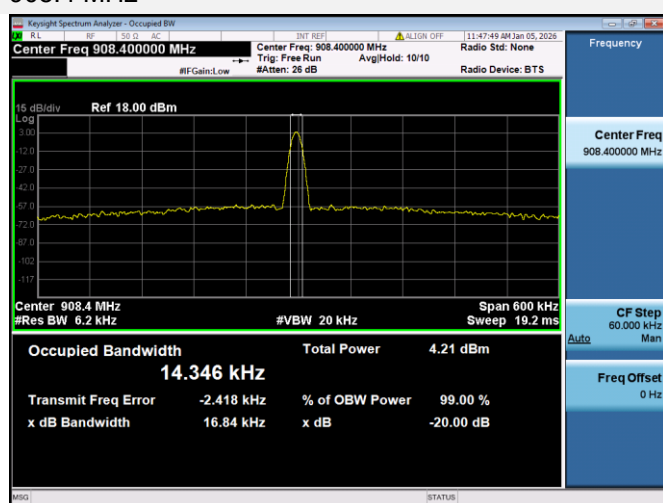
Test Data

Frequency (MHz)	20 dB Bandwidth (kHz)	99% Bandwidth (kHz)
908.4	16.840	14.346
916.0	16.840	14.347

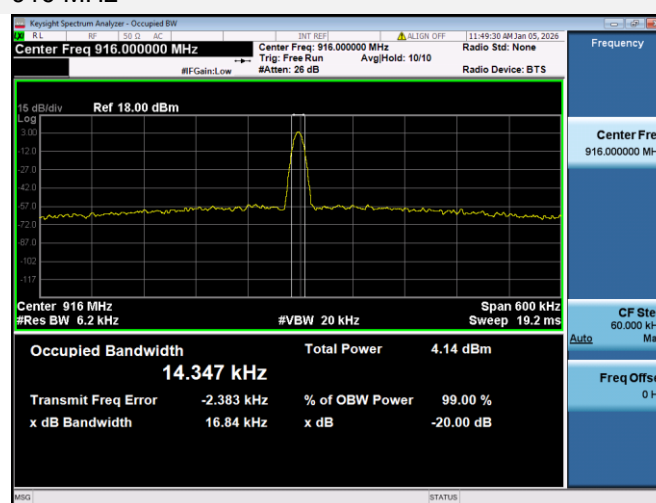
Test Plots

20 db and 99% Bandwidth

908.4 MHz



916 MHz



A.2 AC Conducted Emissions

Note: Not applicable.

A.3 Radiated Emission

Note ¹: The symbol of “--” in the table which means not application.

Note ²: For the test data above 1 GHz, according the ANSI C63.10-2020, where limits are specified for both average and peak (or quasi-peak) detector functions, if the peak (or quasi-peak) measured value complies with the average limit, it is unnecessary to perform an average measurement.

Note ³: The low frequency, which started from 9 kHz to 30 MHz, was pre-scanned and the result which was 20 dB lower than the limit line per 15.31(o) was not reported.

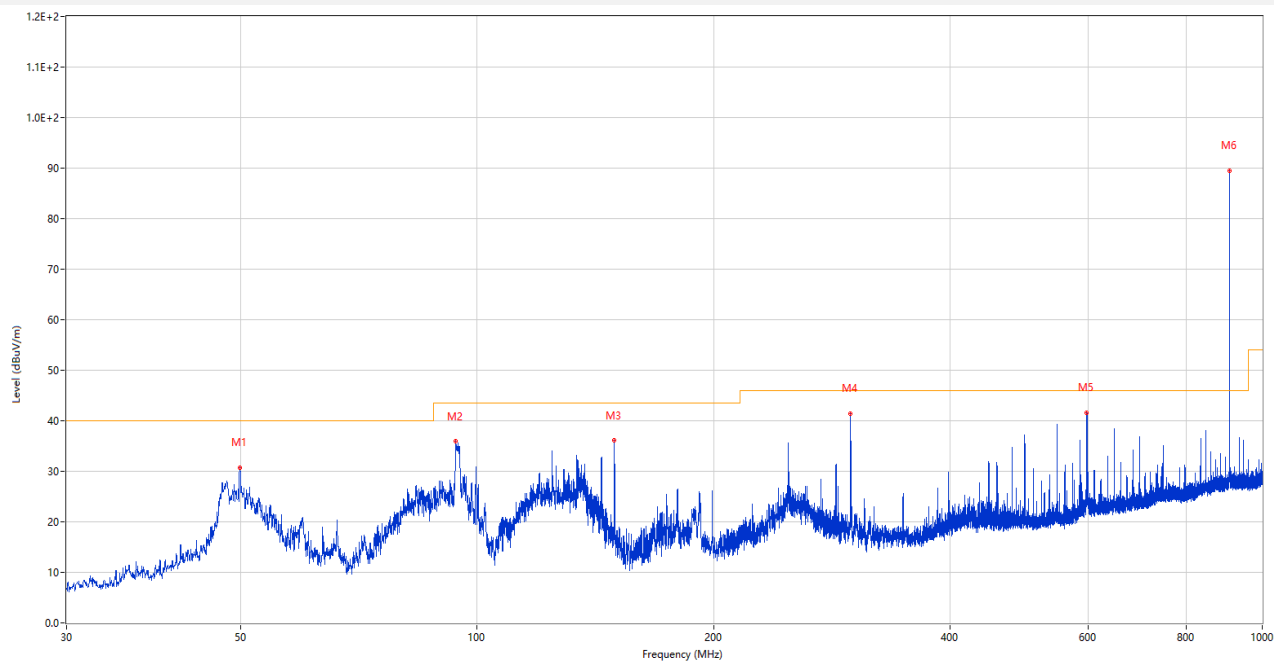
Note ⁴: The EUT is working in the Normal link mode below 1 GHz. All modes have been tested and normal link mode is worst.

Note ⁵: The center channel Average Results (dBuV/m) = Peak Results(dBuV/m) + Factor (dB); Duty cycle correction factor= $20 \times \log(\text{Duty Cycle})$ (dB)

Note ⁶: The marked spikes near 908.4 MHz&916 MHz with circle should be ignored because they are Fundamental signal.

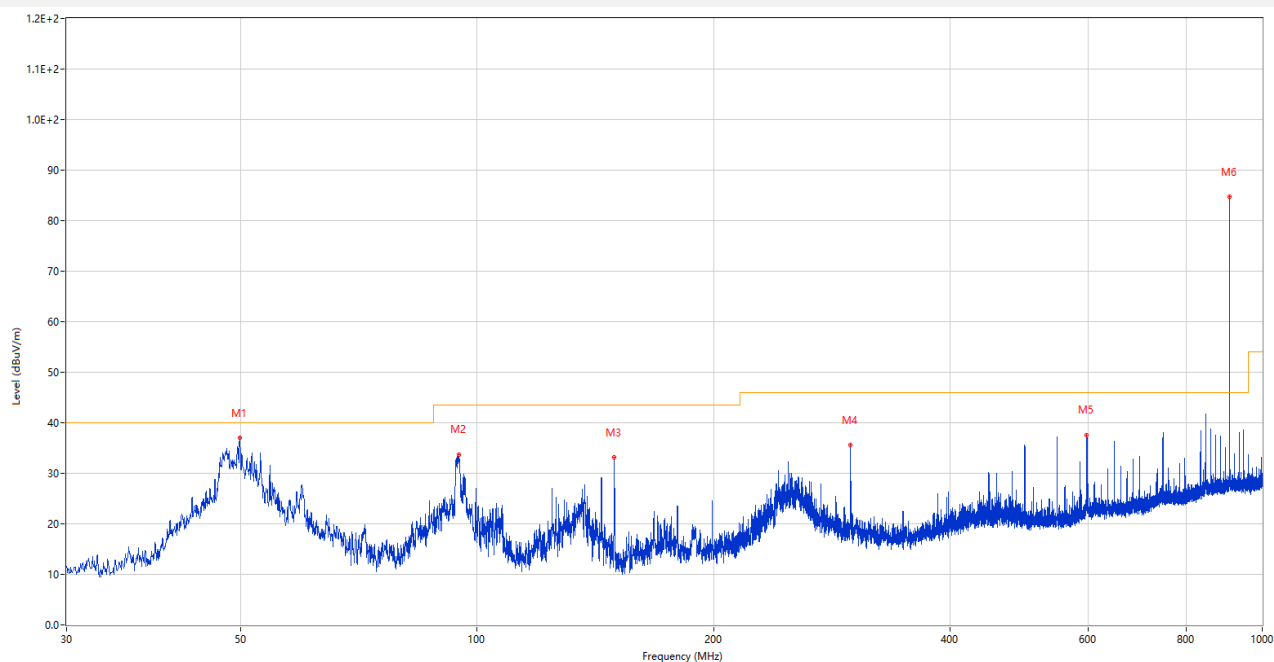
Test Data and Plots

908.4 MHz, 30 MHz to 1 GHz, ANT H



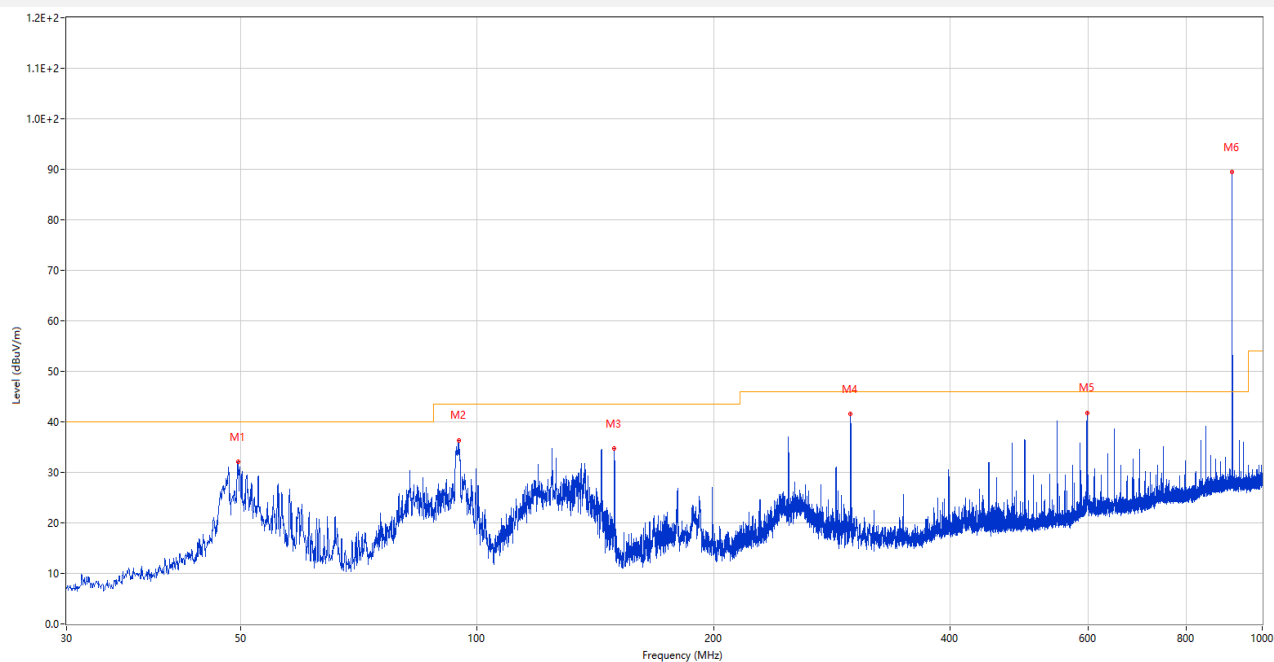
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	49.885	30.77	-24.63	40.0	9.23	Peak	190.00	200	Horizontal	Pass
2	93.971	35.95	-27.21	43.5	7.55	Peak	196.00	200	Horizontal	Pass
3	149.504	36.14	-29.86	43.5	7.36	Peak	74.00	100	Horizontal	Pass
4	298.981	41.48	-23.61	46.0	4.52	Peak	90.00	100	Horizontal	Pass
5	597.984	41.65	-15.60	46.0	4.35	Peak	74.00	100	Horizontal	Pass
6	908.383	89.49	-9.86	46.0	-43.49	Peak	114.00	200	Horizontal	N/A

908.4 MHz, 30 MHz to 1 GHz, ANT V



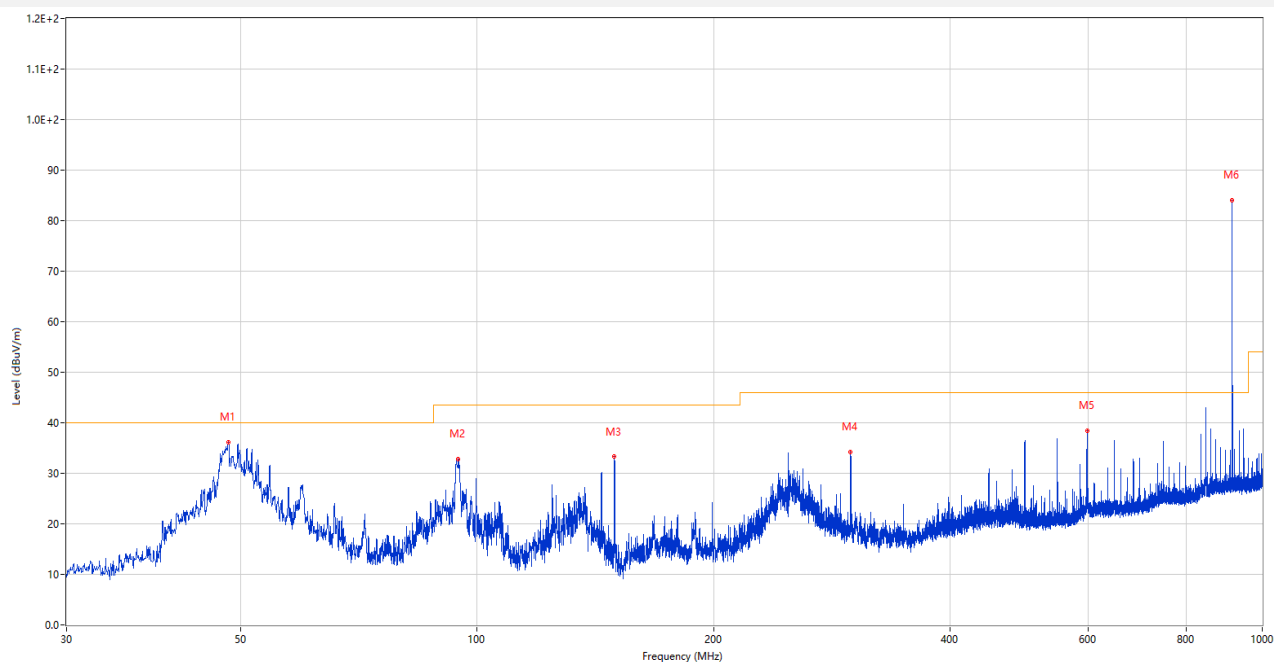
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	49.885	36.93	-24.63	40.0	3.07	Peak	38.00	100	Vertical	Pass
2	94.893	33.69	-26.98	43.5	9.81	Peak	78.00	100	Vertical	Pass
3	149.504	33.08	-29.86	43.5	10.42	Peak	186.00	200	Vertical	Pass
4	298.981	35.55	-23.61	46.0	10.45	Peak	138.00	200	Vertical	Pass
5	597.886	37.62	-15.59	46.0	8.38	Peak	0.00	200	Vertical	Pass
6	908.383	84.67	-9.86	46.0	-38.67	Peak	78.00	100	Vertical	N/A

916 MHz, 30 MHz to 1 GHz, ANT H



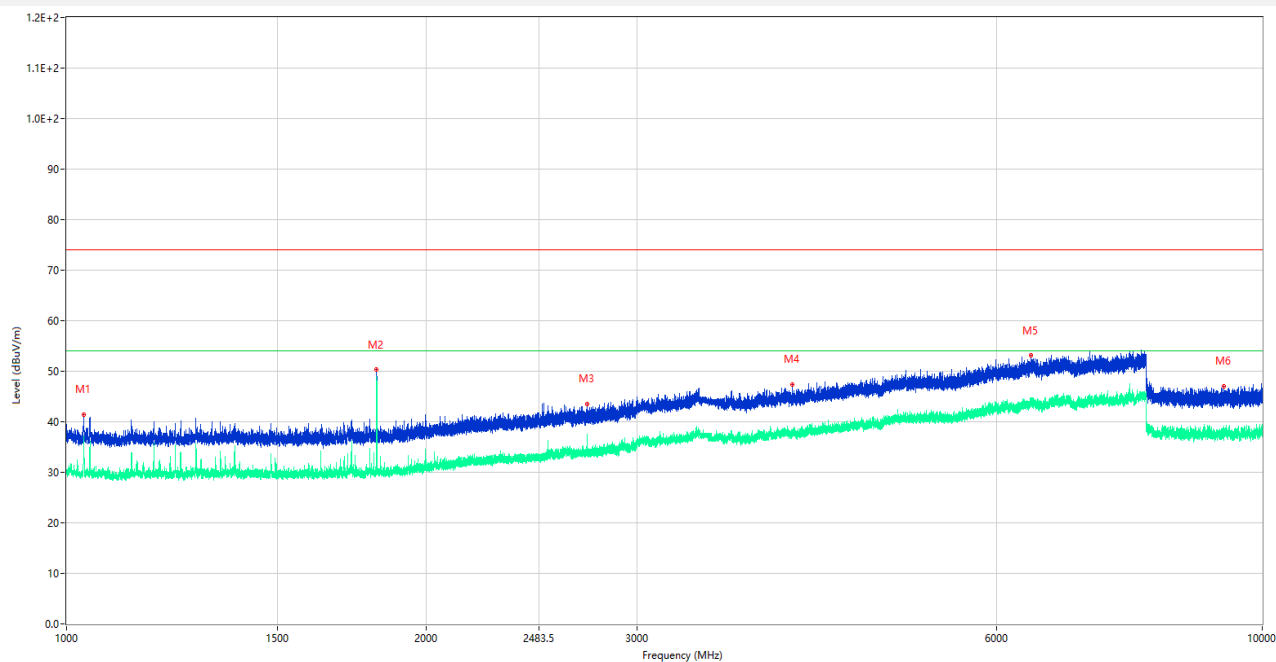
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	49.594	32.06	-24.66	40.0	7.94	Peak	360.00	200	Horizontal	Pass
2	94.699	36.39	-27.06	43.5	7.11	Peak	187.00	200	Horizontal	Pass
3	149.553	34.66	-29.86	43.5	8.84	Peak	112.00	100	Horizontal	Pass
4	299.030	41.49	-23.60	46.0	4.51	Peak	82.00	100	Horizontal	Pass
5	598.129	41.76	-15.61	46.0	4.24	Peak	131.00	100	Horizontal	Pass
6	915.998	89.39	-9.75	46.0	-43.39	Peak	114.00	200	Horizontal	N/A

916 MHz, 30 MHz to 1 GHz, ANT V



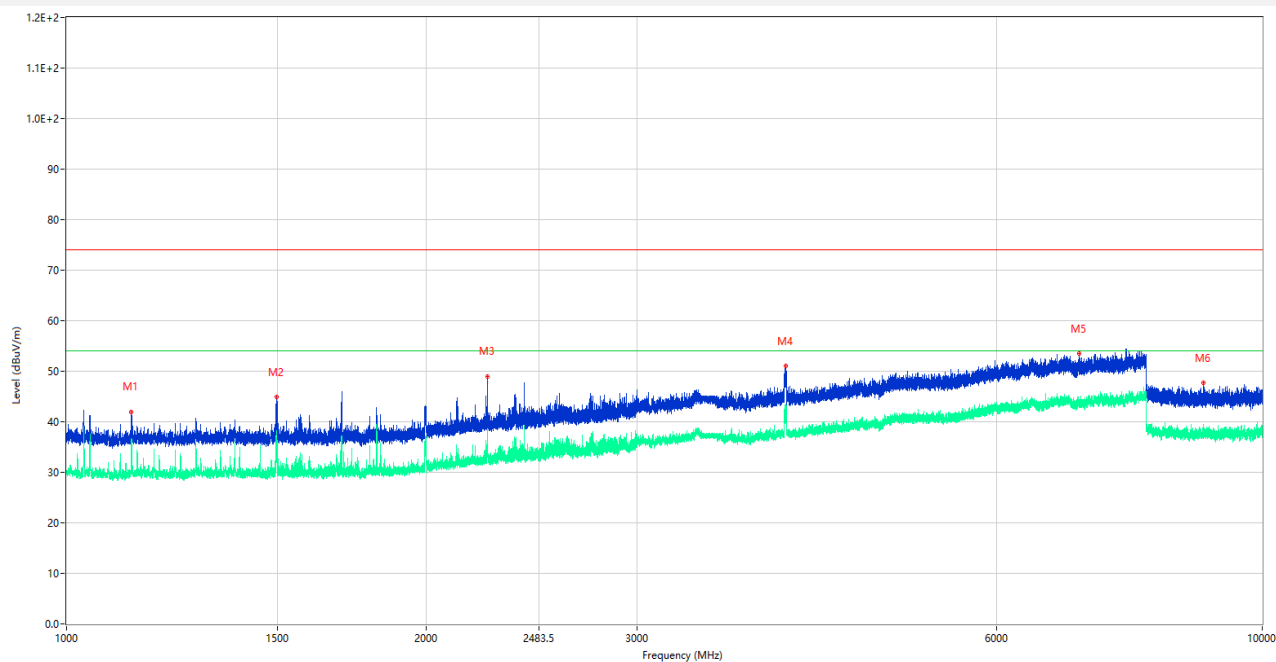
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	48.236	36.08	-24.63	40.0	3.92	Peak	72.00	200	Vertical	Pass
2	94.650	32.86	-27.08	43.5	10.64	Peak	80.00	100	Vertical	Pass
3	149.553	33.31	-29.86	43.5	10.19	Peak	180.00	200	Vertical	Pass
4	299.078	34.30	-23.60	46.0	11.70	Peak	125.00	200	Vertical	Pass
5	598.129	38.42	-15.61	46.0	7.58	Peak	360.00	200	Vertical	Pass
6	915.998	84.04	-9.75	46.0	-38.04	Peak	80.00	100	Vertical	N/A

908.4MHz 1 GHz to 10 GHz, ANT H



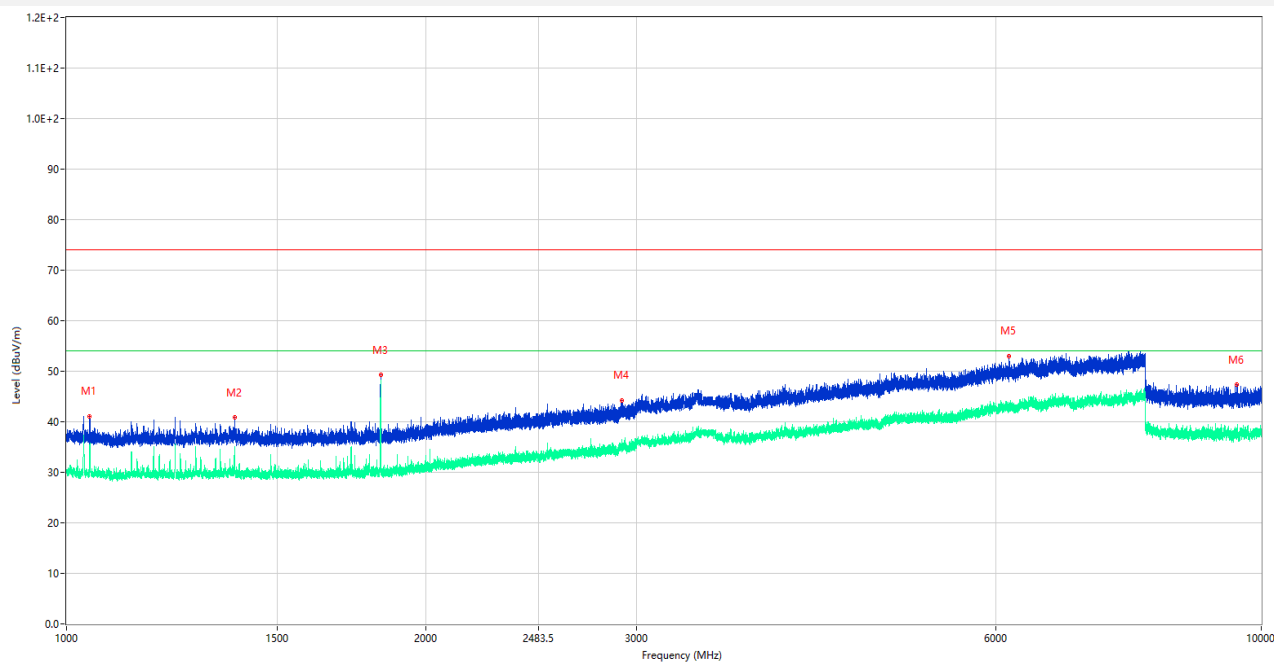
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1033.400	41.41	-15.37	74.0	32.59	Peak	110.00	100	Horizontal	Pass
1**	1033.400	36.93	-15.37	54.0	17.07	AV	110.00	100	Horizontal	Pass
2	1816.800	50.29	-16.02	74.0	23.71	Peak	166.00	100	Horizontal	Pass
2**	1816.800	48.95	-16.02	54.0	5.05	AV	166.00	100	Horizontal	Pass
3	2725.100	43.44	-10.67	74.0	30.56	Peak	166.00	100	Horizontal	Pass
3**	2725.100	36.32	-10.67	54.0	17.68	AV	166.00	100	Horizontal	Pass
4	4045.250	47.41	-4.22	74.0	26.59	Peak	47.00	100	Horizontal	Pass
4**	4045.250	38.13	-4.22	54.0	15.87	AV	47.00	100	Horizontal	Pass
5	6401.500	53.15	0.41	74.0	20.85	Peak	31.00	100	Horizontal	Pass
5**	6401.500	43.93	0.41	54.0	10.07	AV	31.00	100	Horizontal	Pass
6	9293.187	47.06	-5.56	74.0	26.94	Peak	360.00	100	Horizontal	Pass
6**	9293.187	36.63	-5.56	54.0	17.37	AV	360.00	100	Horizontal	Pass

908.4MHz 1 GHz to 10 GHz, ANT V



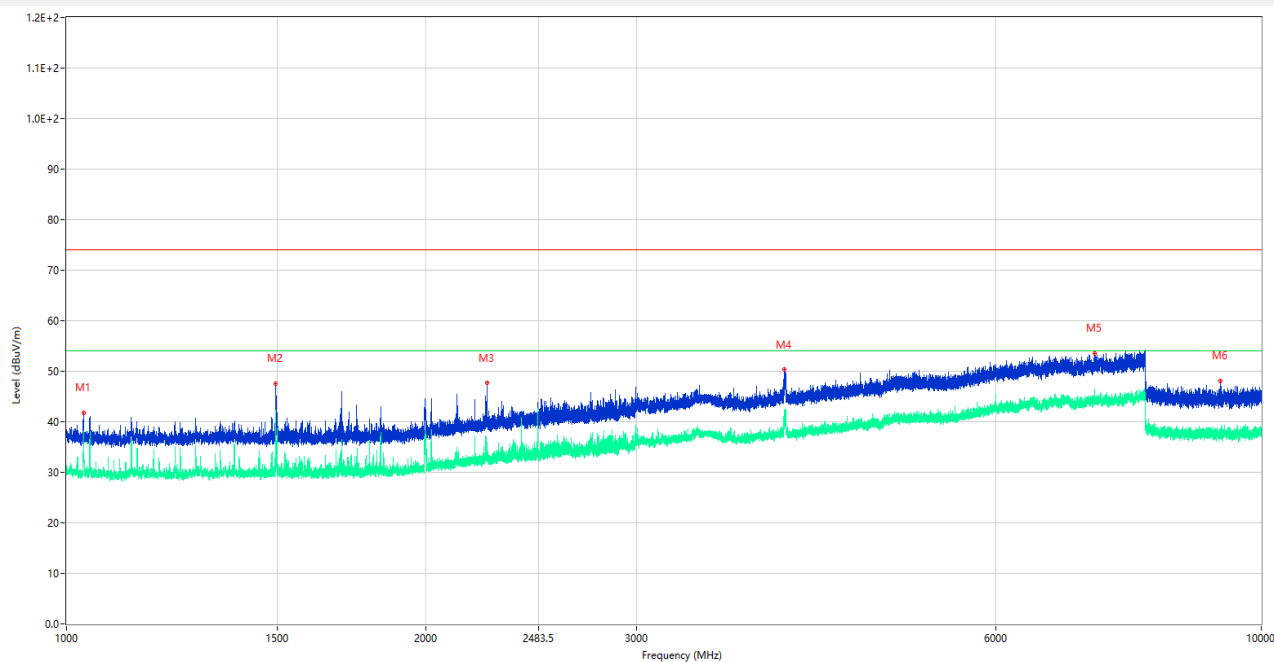
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1133.200	41.92	-15.56	74.0	32.08	Peak	158.00	100	Vertical	Pass
1**	1133.200	36.64	-15.56	54.0	17.36	AV	158.00	100	Vertical	Pass
2	1497.400	44.96	-16.14	74.0	29.04	Peak	0.00	100	Vertical	Pass
2**	1497.400	33.94	-16.14	54.0	20.06	AV	0.00	100	Vertical	Pass
3	2249.700	49.01	-12.90	74.0	24.99	Peak	359.00	100	Vertical	Pass
3**	2249.700	36.33	-12.90	54.0	17.67	AV	359.00	100	Vertical	Pass
4	3996.500	51.11	-4.81	74.0	22.89	Peak	328.00	100	Vertical	Pass
4**	3996.500	40.24	-4.81	54.0	13.76	AV	328.00	100	Vertical	Pass
5	7033.250	53.51	-0.28	74.0	20.49	Peak	28.00	100	Vertical	Pass
5**	7033.250	43.43	-0.28	54.0	10.57	AV	28.00	100	Vertical	Pass
6	8932.187	47.65	-4.26	74.0	26.35	Peak	27.00	100	Vertical	Pass
6**	8932.187	38.53	-4.26	54.0	15.47	AV	27.00	100	Vertical	Pass

916 MHz 1 GHz to 10 GHz, ANT H



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1045.700	41.07	-15.40	74.0	32.93	Peak	147.00	100	Horizontal	Pass
1**	1045.700	34.99	-15.40	54.0	19.01	AV	147.00	100	Horizontal	Pass
2	1382.300	40.87	-15.99	74.0	33.13	Peak	341.00	100	Horizontal	Pass
2**	1382.300	34.97	-15.99	54.0	19.03	AV	341.00	100	Horizontal	Pass
3	1832.000	49.22	-16.05	74.0	24.78	Peak	169.00	100	Horizontal	Pass
3**	1832.000	48.04	-16.05	54.0	5.96	AV	169.00	100	Horizontal	Pass
4	2914.600	44.15	-9.06	74.0	29.85	Peak	320.00	100	Horizontal	Pass
4**	2914.600	35.50	-9.06	54.0	18.50	AV	320.00	100	Horizontal	Pass
5	6151.500	52.96	-0.18	74.0	21.04	Peak	59.00	100	Horizontal	Pass
5**	6151.500	42.67	-0.18	54.0	11.33	AV	59.00	100	Horizontal	Pass
6	9537.338	47.38	-3.22	74.0	26.62	Peak	237.00	100	Horizontal	Pass
6**	9537.338	36.95	-3.22	54.0	17.05	AV	237.00	100	Horizontal	Pass

916 MHz 1 GHz to 10 GHz, ANT V



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1033.900	41.78	-15.37	74.0	32.22	Peak	200.00	100	Vertical	Pass
1**	1033.900	35.95	-15.37	54.0	18.05	AV	200.00	100	Vertical	Pass
2	1496.200	47.57	-16.17	74.0	26.43	Peak	27.00	100	Vertical	Pass
2**	1496.200	42.36	-16.17	54.0	11.64	AV	27.00	100	Vertical	Pass
3	2248.800	47.66	-12.89	74.0	26.34	Peak	3.00	100	Vertical	Pass
3**	2248.800	33.26	-12.89	54.0	20.74	AV	3.00	100	Vertical	Pass
4	3991.500	50.33	-4.81	74.0	23.67	Peak	329.00	100	Vertical	Pass
4**	3991.500	41.58	-4.81	54.0	12.42	AV	329.00	100	Vertical	Pass
5	7254.000	53.50	0.76	74.0	20.50	Peak	3.00	100	Vertical	Pass
5**	7254.000	44.42	0.76	54.0	9.58	AV	3.00	100	Vertical	Pass
6	9241.175	48.13	-5.44	74.0	25.87	Peak	28.00	100	Vertical	Pass
6**	9241.175	37.20	-5.44	54.0	16.80	AV	28.00	100	Vertical	Pass

A.4 Band Edge (Restricted-band band-edge)

Note 1: The lowest and highest channels are tested to verify the band edge emissions. Please refer to the following the plots for emissions values.

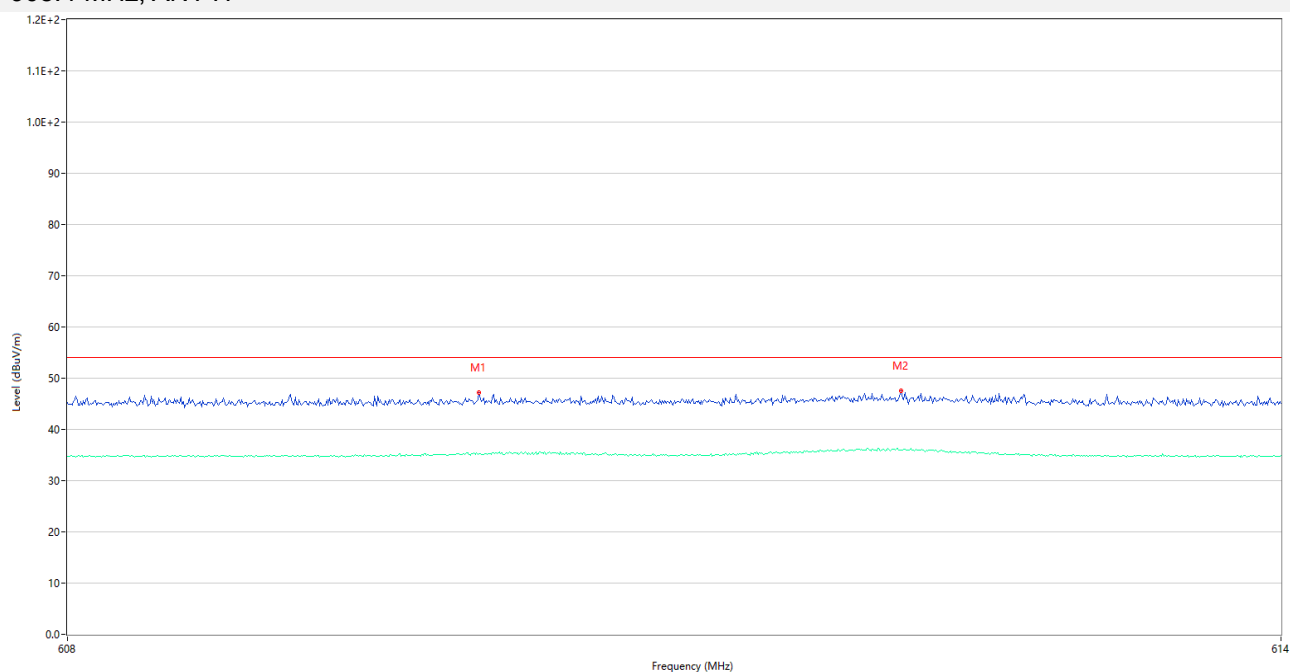
Note 2: The test data all are tested in the vertical and horizontal antenna which the trace is max hold. So these plots have shown the worst case.

Note 3: According the ANSI C63.10-2020, where limits are specified for both average and peak (or quasi-peak) detector functions, if the peak (or quasi-peak) measured value complies with the average limit, it is unnecessary to perform an average measurement.

Note 4: The Level (dBuV/m) has been corrected by factor.

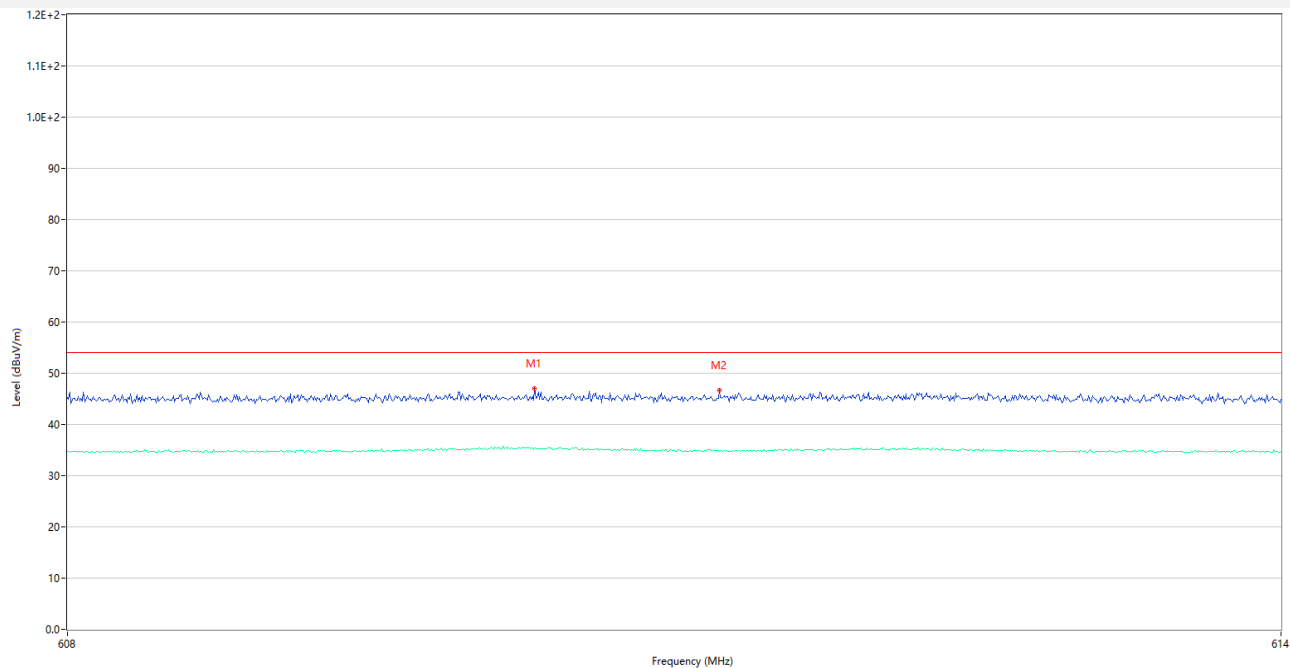
Test Data

908.4 MHz, ANT H



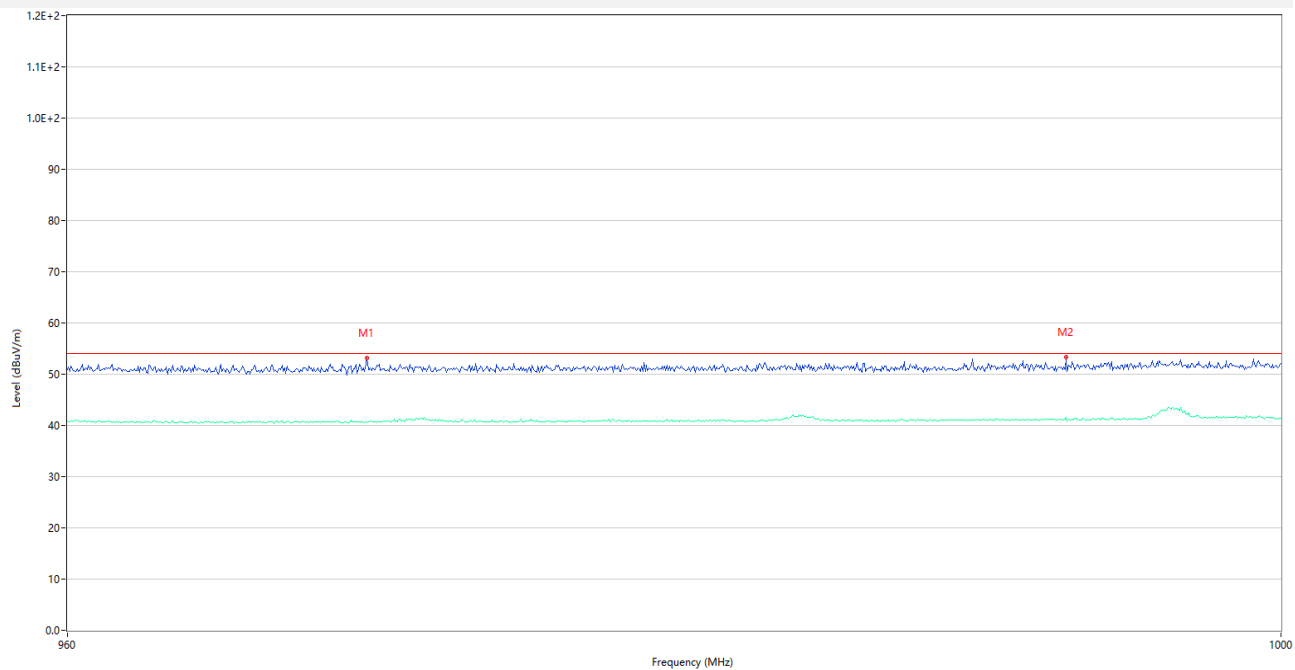
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	610.028	47.19	-4.73	54.0	6.81	Peak	321.00	150	Horizontal	Pass
1**	610.028	35.22	-4.73	--	-35.22	AV	321.00	150	Horizontal	N/A
2	612.116	47.47	-4.68	54.0	6.53	Peak	326.00	150	Horizontal	Pass
2**	612.116	36.03	-4.68	--	-36.03	AV	326.00	150	Horizontal	N/A

908.4 MHz, ANT V



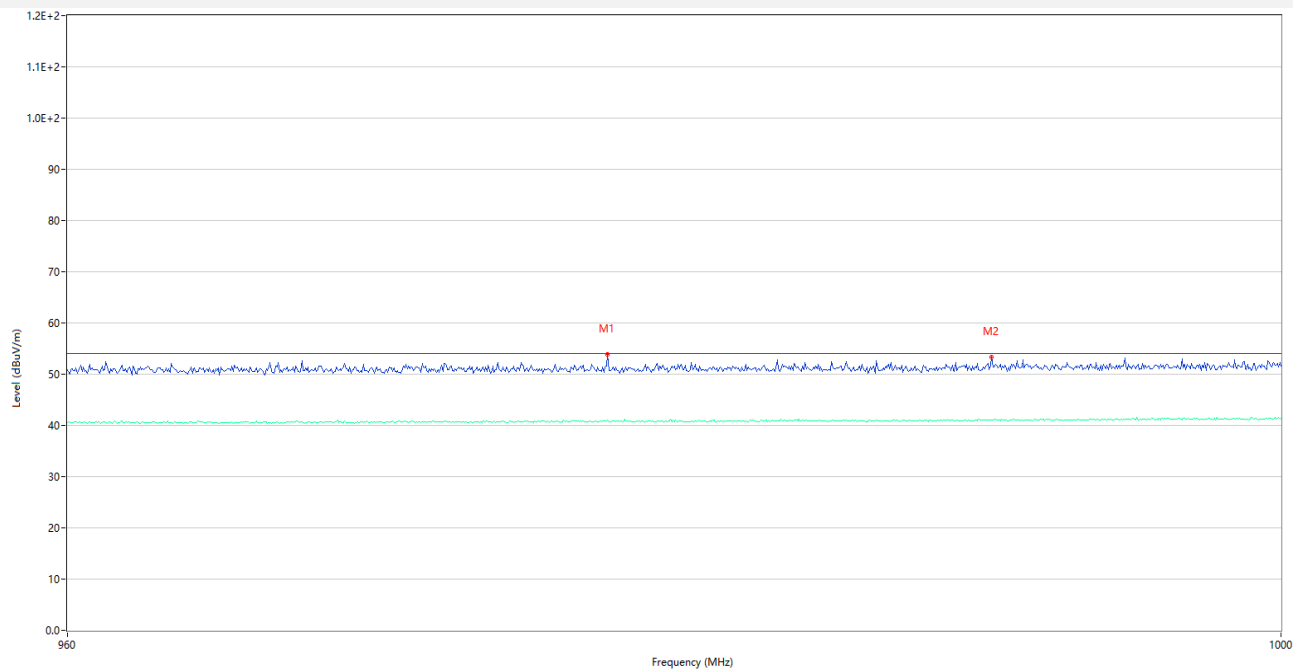
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	610.304	46.95	-4.72	54.0	7.05	Peak	123.00	150	Vertical	Pass
1**	610.304	35.42	-4.72	--	-35.42	AV	123.00	150	Vertical	N/A
2	611.216	46.65	-4.71	54.0	7.35	Peak	8.00	150	Vertical	Pass
2**	611.216	34.71	-4.71	--	-34.71	AV	8.00	150	Vertical	N/A

908.4 MHz, ANT H



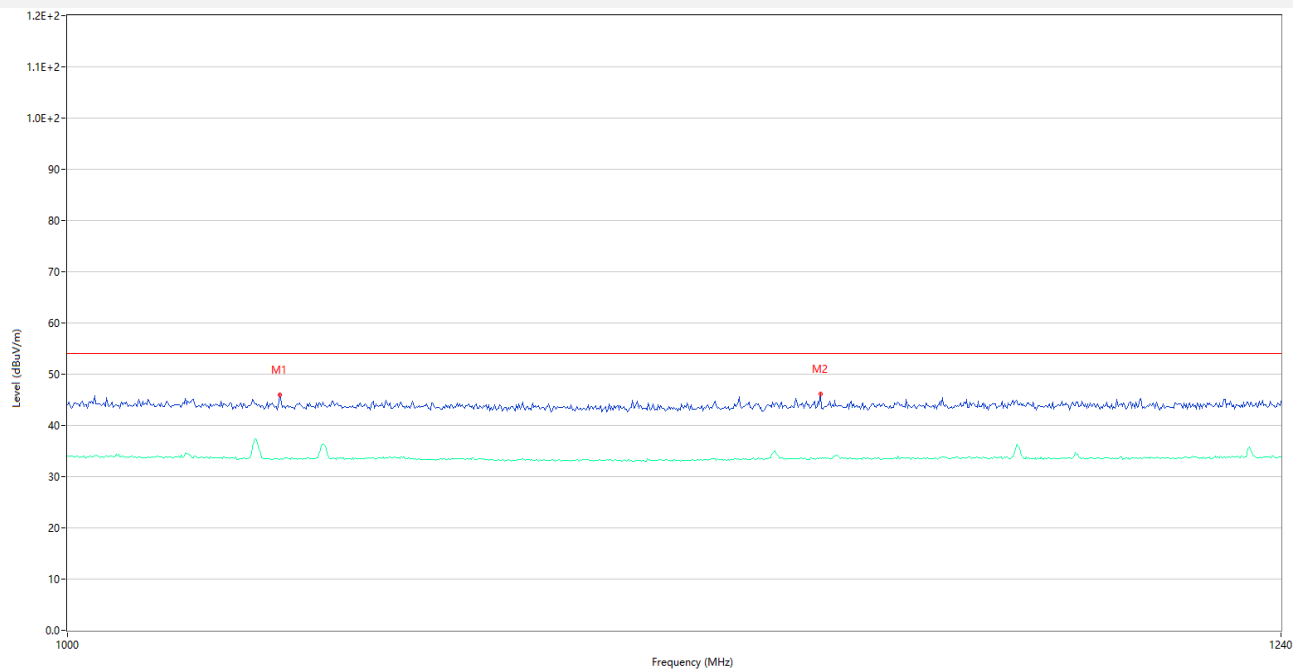
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	969.720	53.16	1.36	54.0	0.84	Peak	196.00	150	Horizontal	Pass
1**	969.720	40.60	1.36	--	-40.60	AV	196.00	150	Horizontal	N/A
2	992.800	53.28	1.75	54.0	0.72	Peak	285.00	150	Horizontal	Pass
2**	992.800	41.50	1.75	--	-41.50	AV	285.00	150	Horizontal	N/A

908.4 MHz, ANT V



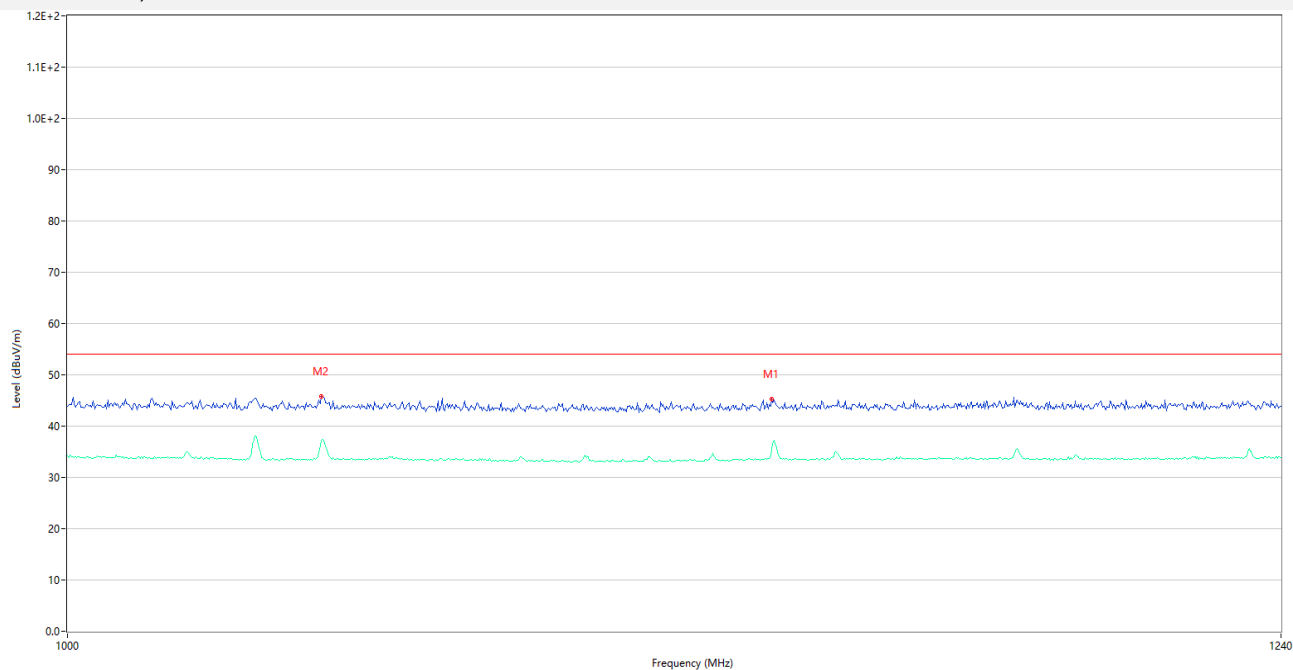
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	977.600	53.86	1.48	54.0	0.14	Peak	360.00	150	Vertical	Pass
1**	977.600	41.03	1.48	--	-41.03	AV	360.00	150	Vertical	N/A
2	990.320	53.40	1.69	54.0	0.60	Peak	54.00	150	Vertical	Pass
2**	990.320	41.09	1.69	--	-41.09	AV	54.00	150	Vertical	N/A

908.4 MHz, ANT H



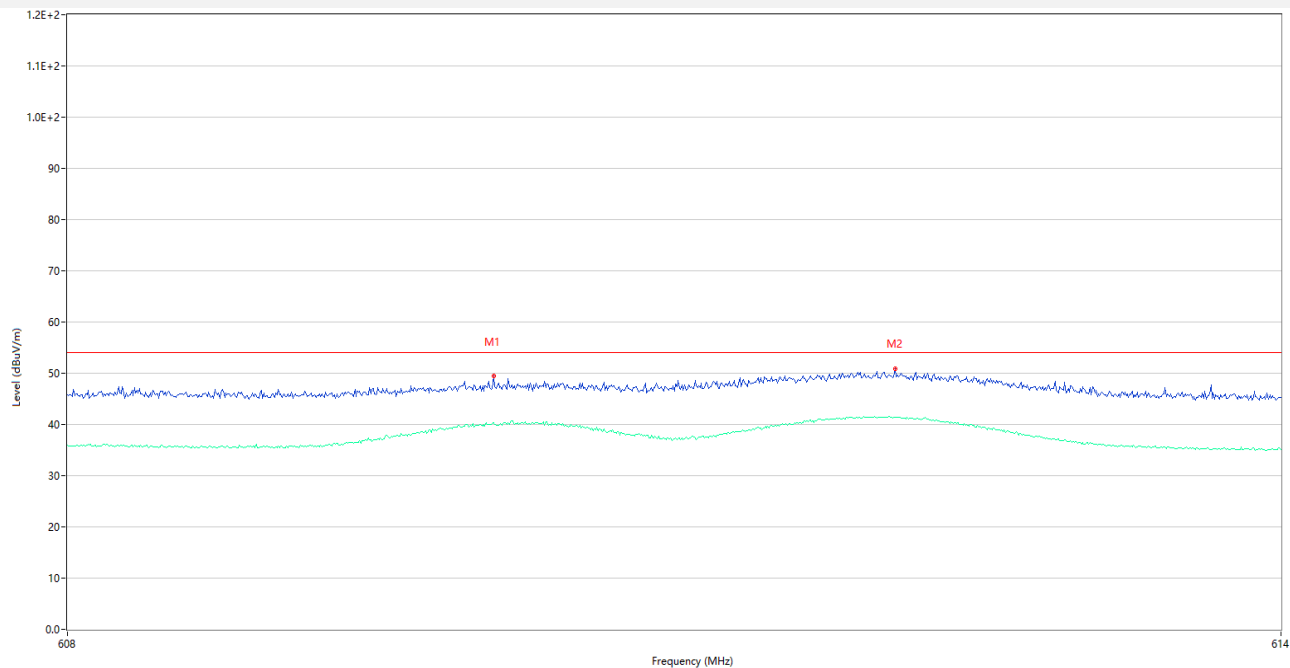
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1038.400	45.98	-10.50	54.0	8.02	Peak	107.00	150	Horizontal	Pass
1**	1038.400	33.30	-10.50	--	-33.30	AV	107.00	150	Horizontal	N/A
2	1142.800	46.07	-10.80	54.0	7.93	Peak	247.00	150	Horizontal	Pass
2**	1142.800	33.72	-10.80	--	-33.72	AV	247.00	150	Horizontal	N/A

908.4 MHz, ANT V



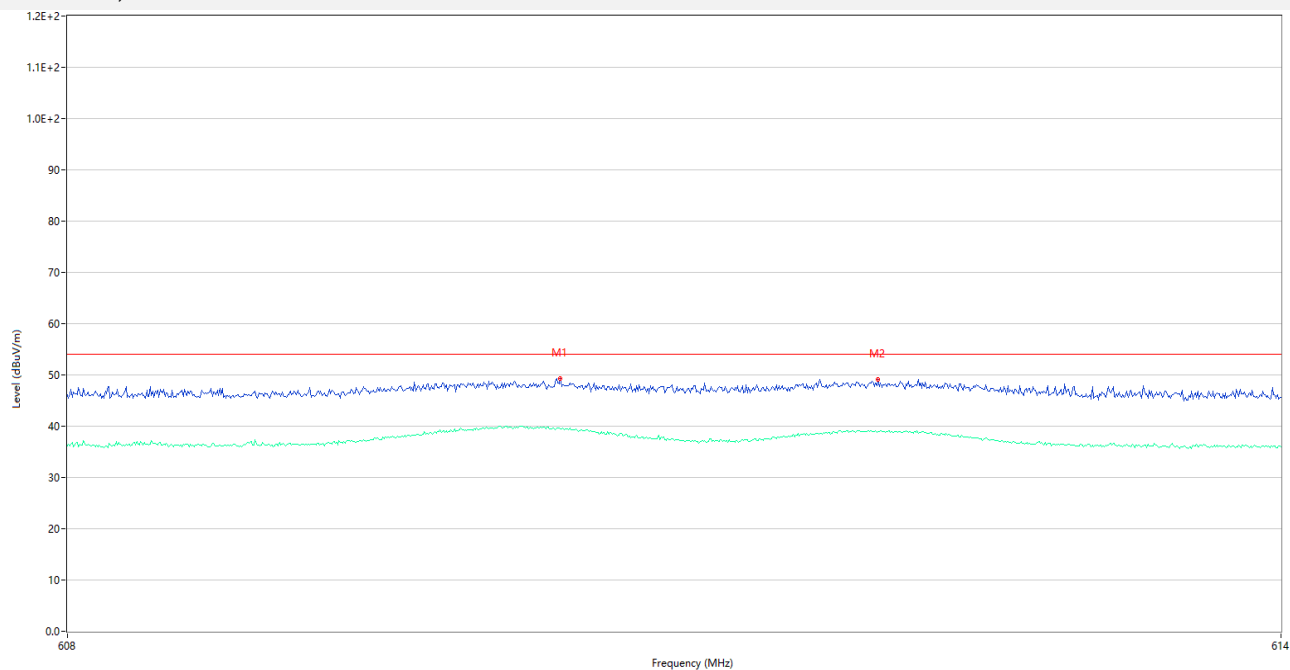
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1132.960	45.31	-10.74	54.0	8.69	Peak	206.00	150	Vertical	Pass
1**	1132.960	35.37	-10.74	--	-35.37	AV	206.00	150	Vertical	N/A
2	1046.080	45.77	-10.51	54.0	8.23	Peak	200.00	150	Vertical	Pass
2**	1046.080	37.22	-10.51	--	-37.22	AV	200.00	150	Vertical	N/A

916 MHz, ANT H



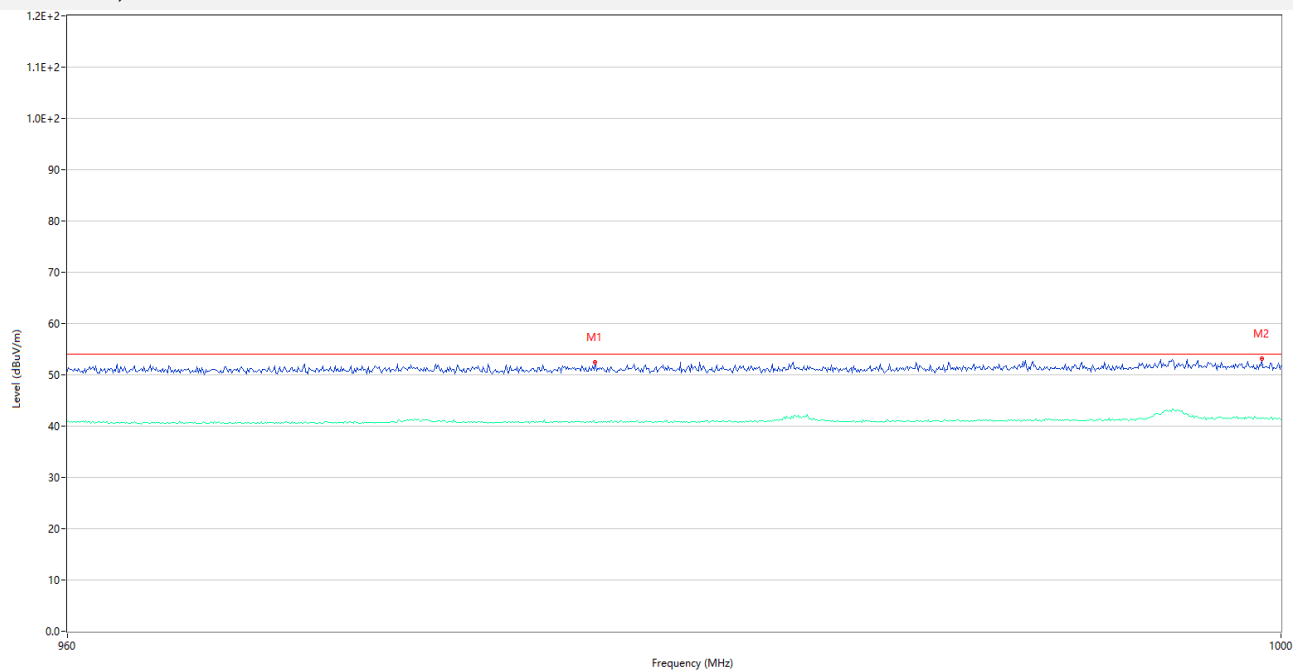
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	610.100	49.45	-4.73	54.0	4.55	Peak	311.00	150	Horizontal	Pass
1**	610.100	40.31	-4.73	--	-40.31	AV	311.00	150	Horizontal	N/A
2	612.086	50.86	-4.68	54.0	3.14	Peak	337.00	150	Horizontal	Pass
2**	612.086	41.41	-4.68	--	-41.41	AV	337.00	150	Horizontal	N/A

916 MHz, ANT V



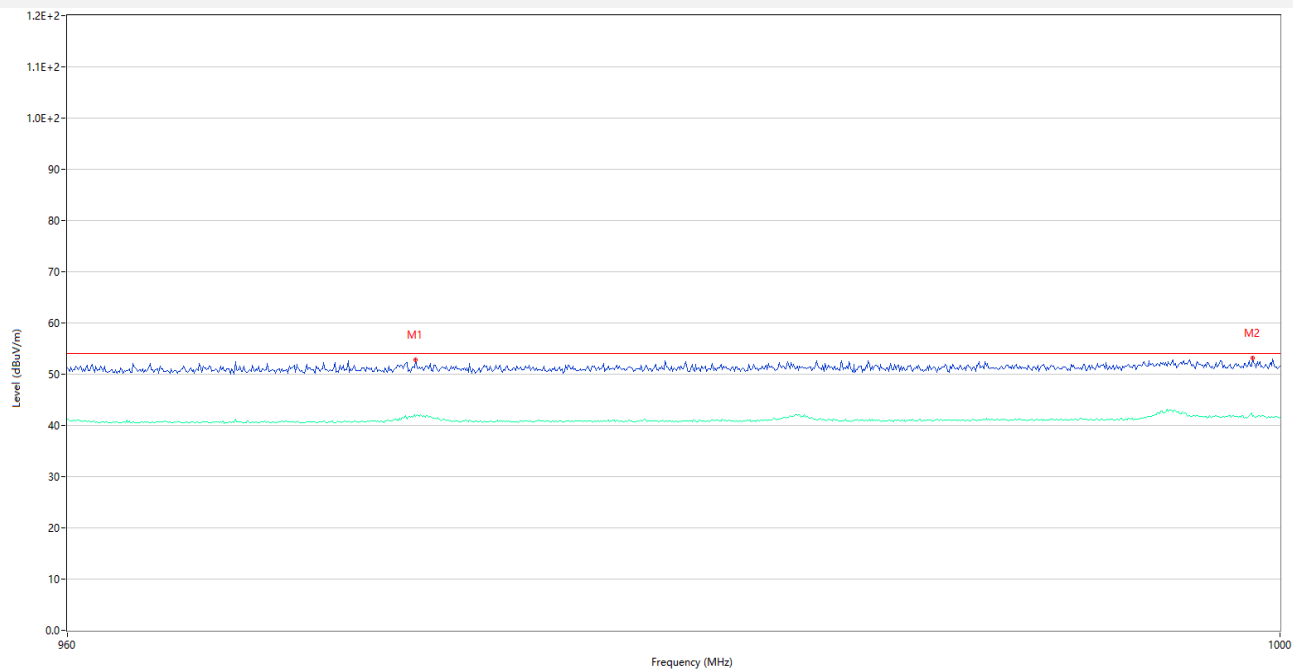
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	610.430	49.38	-4.72	54.0	4.62	Peak	0.00	150	Vertical	Pass
1**	610.430	39.50	-4.72	--	-39.50	AV	0.00	150	Vertical	N/A
2	612.002	49.14	-4.69	54.0	4.86	Peak	196.00	150	Vertical	Pass
2**	612.002	38.99	-4.69	--	-38.99	AV	196.00	150	Vertical	N/A

916 MHz, ANT H



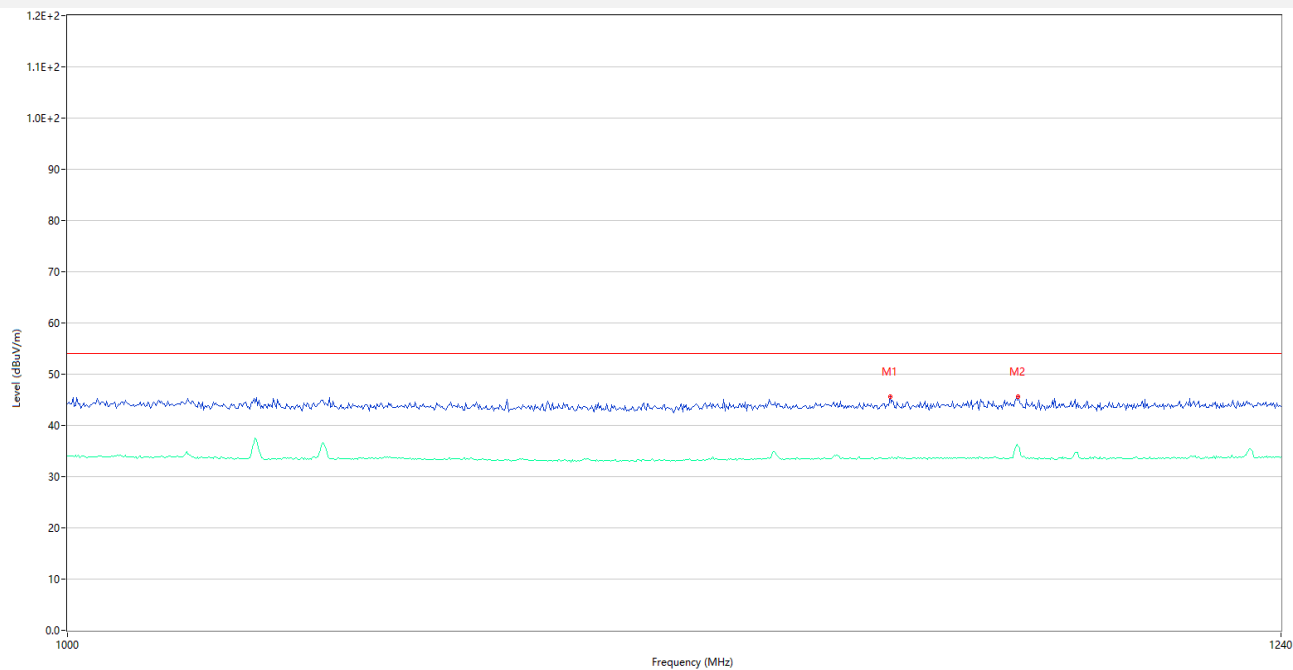
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	977.200	52.38	1.49	54.0	1.62	Peak	0.00	150	Horizontal	Pass
1**	977.200	40.76	1.49	--	-40.76	AV	0.00	150	Horizontal	N/A
2	999.360	53.10	1.94	54.0	0.90	Peak	256.00	150	Horizontal	Pass
2**	999.360	41.53	1.94	--	-41.53	AV	256.00	150	Horizontal	N/A

916 MHz, ANT V



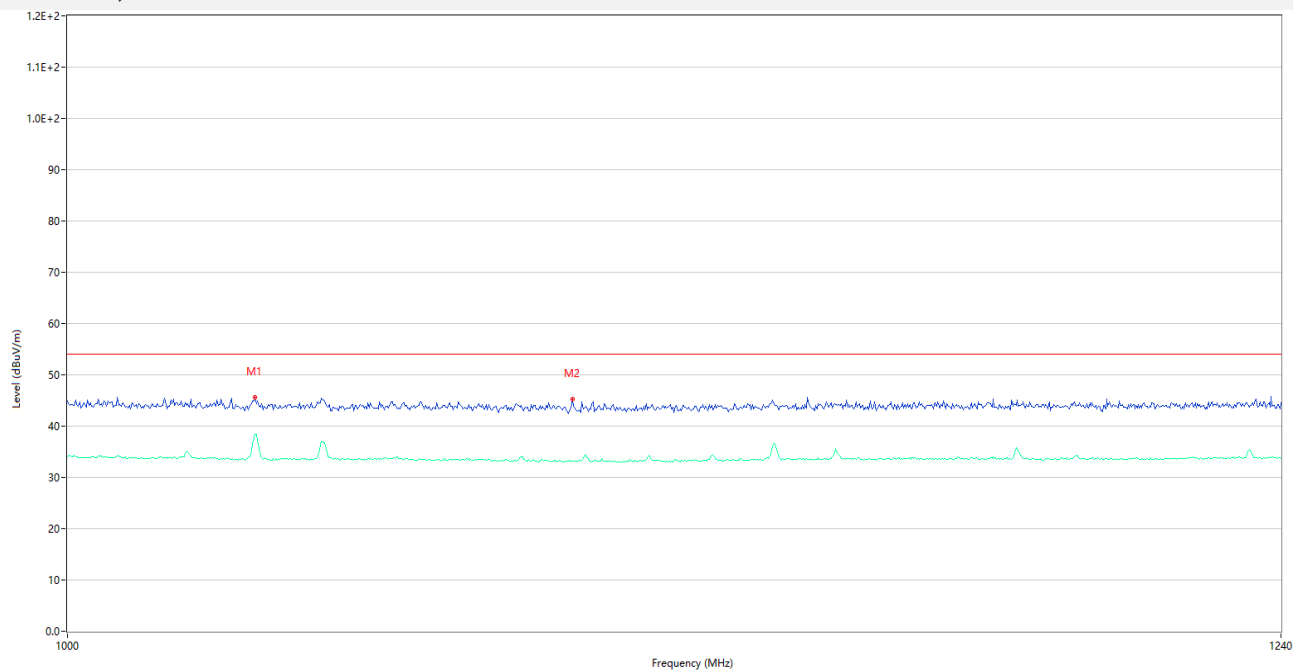
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	971.320	52.73	1.40	54.0	1.27	Peak	142.00	150	Vertical	Pass
1**	971.320	41.80	1.40	--	-41.80	AV	142.00	150	Vertical	N/A
2	999.080	53.14	1.93	54.0	0.86	Peak	245.00	150	Vertical	Pass
2**	999.080	41.76	1.93	--	-41.76	AV	245.00	150	Vertical	N/A

916 MHz, ANT H



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1156.960	45.61	-10.73	54.0	8.39	Peak	210.00	150	Horizontal	Pass
1**	1156.960	33.49	-10.73	--	-33.49	AV	210.00	150	Horizontal	N/A
2	1183.600	45.54	-10.70	54.0	8.46	Peak	347.00	150	Horizontal	Pass
2**	1183.600	35.89	-10.70	--	-35.89	AV	347.00	150	Horizontal	N/A

916 MHz, ANT V



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1033.840	45.70	-10.48	54.0	8.30	Peak	202.00	150	Vertical	Pass
1**	1033.840	38.41	-10.48	--	-38.41	AV	202.00	150	Vertical	N/A
2	1093.600	45.25	-10.83	54.0	8.75	Peak	318.00	150	Vertical	Pass
2**	1093.600	33.13	-10.83	--	-33.13	AV	318.00	150	Vertical	N/A

ANNEX B TEST SETUP PHOTOS

Please refer the document “BL-SH25B1301-AR-1.PDF”.

ANNEX C EUT EXTERNAL PHOTOS

Please refer the document “BL-SH25B1301-AW.PDF”.

ANNEX D EUT INTERNAL PHOTOS

Please refer the document “BL-SH25B1301-AI.PDF”.

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