



FCC TEST REPORT

FCC ID:2BRZD-P3N1PFCR

Applicant: HTG Brands, LLC

Address: 5578 Bandini Boulevard, Bell, CA 90201

Manufacturer: VERSOGO TECH (VIET NAM) TECHNOLOGY COMPANY LIMITED

Address: TS7 Road, Tien Son Industrial Park, Tuong Giang Ward, Tu Son City, Bac Ninh Province, Viet Nam.

EUT: 3 in 1 wireless charger

Trade Mark: **PRESS PLAY**

Model Number: P3N1PFCR

Date of Receipt: Aug. 03, 2025

Test Date: Aug. 03, 2025 to Sep. 03, 2025

Date of Report: Sep. 03, 2025

Prepared By: Shenzhen DL Testing Technology Co., Ltd.

Address: 101-201, Comprehensive Building, Tongzhou Electronics Longgang Factory Area, No.1 Baolong Fifth Road, Baolong Community, Baolong Street, Longgang District, Shenzhen, China

Applicable Standards: FCC CFR Title 47 Part 15 Subpart C
ANSI C63.10:2020

Test Result: Pass

Report Number: DLE-250902052R

Prepared (Test Engineer): Dimon Tan

Reviewer (Supervisor): Jack Bu

Approved (Manager): Jade Yang



This test report is based on a single evaluation of one sample of above mentioned products. It is not permitted to be duplicated in extracts without written approval of Shenzhen DL Testing Technology Co., Ltd.



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**1. VERSION**

Report No.	Version	Description	Approved
DLE-250902052R	Rev.01	Initial issue of report	Sep. 03, 2025

**2. TEST SUMMARY**

Test Item	Section in CFR 47	Result
Antenna requirement	15.203	Pass
AC Power Line Conducted Emission	15.207	Pass
Spurious Emission	15.209(a)(f)	Pass
20dB Bandwidth	15.215	Pass

NOTE:

(1)" N/A" denotes test is not applicable in this Test Report



2.1 TEST FACILITY

Shenzhen DL Testing Technology Co., Ltd.

Add. : 101-201, Comprehensive Building, Tongzhou Electronics Longgang Factory Area, No.1 Baolong Fifth Road, Baolong Community, Baolong Street, Longgang District, Shenzhen, China

FCC Test Firm Registration Number: 854456

Designation Number: CN1307

IC Registered No.: 27485

CAB identifier: CN0118

2.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $y \pm U$, where expanded uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95 %.

No.	Item	Uncertainty
1	3m chamber Radiated spurious emission (9KHz-30MHz)	U=4.5dB
2	3m chamber Radiated spurious emission (30MHz-1GHz)	U=4.8dB
3	3m chamber Radiated spurious emission (1GHz-6GHz)	U=4.9dB
4	3m chamber Radiated spurious emission (6GHz-40GHz)	U=5.0dB
5	Conducted Disturbance	U=3.2dB
6	RF Conducted Spurious Emission	U=2.2dB
7	RF Occupied Bandwidth	U=1.8MHz
8	Humidity Uncertainty	U=5.3%
9	Temperature Uncertainty	U=0.59℃



3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

Product Name:	3 in 1 wireless charger
Model No.:	P3N1PFCR
Serial No.:	N/A
Model Difference:	N/A
Hardware Version:	V 1.0
Software Version:	V 1.0
Operation Frequency:	ANT 1&2: 115kHz ~ 205kHz ANT 3: 300kHz ~ 360kHz
Modulation Type:	ASK
Antenna Type:	Loop Coil Antenna
Antenna Gain:	0dBi
Power Supply:	USB-C Input: 9V==3A Output for Phone:15W/10W/7.5W/5W Output for Earbuds: 5W Output for Watch: 2.5W Output for LED Light:3W
Transmitting Mode:	Keep the EUT in continuously wireless charging mode



3.2 TEST MODE

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

The tested device is divided into two open modes. Mode A is the non-fold mode, and the tested device can be wirelessly output to the phone, earphone and watch at the same time; Mode B is the fold mode, and the tested device can only charge the phone or charge the earbuds and watch.



a. EUT mode of operation before folding:

Test Modes:	Test Coil:	Description:
Mode 1	ANT 1	AC/DC Adapter (9V/3A) + EUT + Phone (Battery Status: <1%)
Mode 2		AC/DC Adapter (9V/3A) + EUT + Phone (Battery Status: 50%)
Mode 3		AC/DC Adapter (9V/3A) + EUT + Phone (Battery Status: >98%)
Mode 4	ANT 2	AC/DC Adapter (9V/3A) + EUT + Earbuds (Battery Status: <1%)
Mode 5		AC/DC Adapter (9V/3A) + EUT + Earbuds (Battery Status: 50%)
Mode 6		AC/DC Adapter (9V/3A) + EUT + Earbuds (Battery Status: >98%)
Mode 7	ANT 3	AC/DC Adapter (9V/3A) + EUT + Watch (Battery Status: <1%)
Mode 8		AC/DC Adapter (9V/3A) + EUT + Watch (Battery Status: 50%)
Mode 9		AC/DC Adapter (9V/3A) + EUT + Watch (Battery Status: >98%)
Mode 10	ANT 1 + ANT2	AC/DC Adapter (9V/3A) + EUT + Phone + Earbuds (Battery Status: <1%)
Mode 11		AC/DC Adapter (9V/3A) + EUT + Phone + Earbuds (Battery Status: 50%)
Mode 12		AC/DC Adapter (9V/3A) + EUT + Phone + Earbuds (Battery Status: >98%)
Mode 13	ANT 1 + ANT 3	AC/DC Adapter (9V/3A) + EUT + Phone + Watch (Battery Status: <1%)
Mode 14		AC/DC Adapter (9V/3A) + EUT + Phone + Watch (Battery Status: 50%)
Mode 15		AC/DC Adapter (9V/3A) + EUT + Phone + Watch (Battery Status: >98%)
Mode 16	ANT 2 + ANT 3	AC/DC Adapter (9V/3A) + EUT + Earbuds + Watch (Battery Status: <1%)
Mode 17		AC/DC Adapter (9V/3A) + EUT + Earbuds + Watch (Battery Status: 50%)
Mode 18		AC/DC Adapter (9V/3A) + EUT + Earbuds + Watch (Battery Status: >98%)
Mode 19	ANT 1 + ANT 2 + ANT 3	AC/DC Adapter (9V/3A) + EUT + Phone + Earbuds + Watch (Battery Status: <1%)
Mode 20		AC/DC Adapter (9V/3A) + EUT + Phone + Earbuds + Watch (Battery Status: 50%)
Mode 21		AC/DC Adapter (9V/3A) + EUT + Phone + Earbuds + Watch (Battery Status: >98%)



b. EUT mode of after folding:

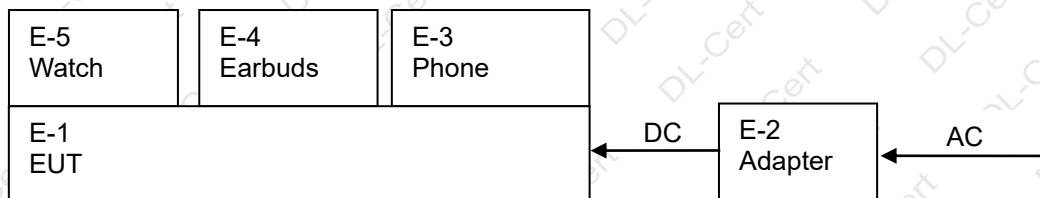
Test Modes:	Test Coil:	Description:
Mode 1a Mode 2a Mode 3a	ANT 1	AC/DC Adapter (9V/3A) + EUT + Phone (Battery Status: <1%) AC/DC Adapter (9V/3A) + EUT + Phone (Battery Status: 50%) AC/DC Adapter (9V/3A) + EUT + Phone (Battery Status: >98%)
Mode 4a Mode 5a Mode 6a	ANT 2	AC/DC Adapter (9V/3A) + EUT + Earbuds (Battery Status: <1%) AC/DC Adapter (9V/3A) + EUT + Earbuds (Battery Status: 50%) AC/DC Adapter (9V/3A) + EUT + Earbuds (Battery Status: >98%)
Mode 7a Mode 8a Mode 9a	ANT 3	AC/DC Adapter (9V/3A) + EUT + Watch (Battery Status: <1%) AC/DC Adapter (9V/3A) + EUT + Watch (Battery Status: 50%) AC/DC Adapter (9V/3A) + EUT + Watch (Battery Status: >98%)
Mode 10a Mode 11a Mode 12a	ANT 2 + ANT 3	AC/DC Adapter (9V/3A) + EUT + Earbuds + Watch (Battery Status: <1%) AC/DC Adapter (9V/3A) + EUT + Earbuds + Watch (Battery Status: 50%) AC/DC Adapter (9V/3A) + EUT + Earbuds + Watch (Battery Status: >98%)



3.3 BLOCK DIAGRAM OF EUT CONFIGURATION

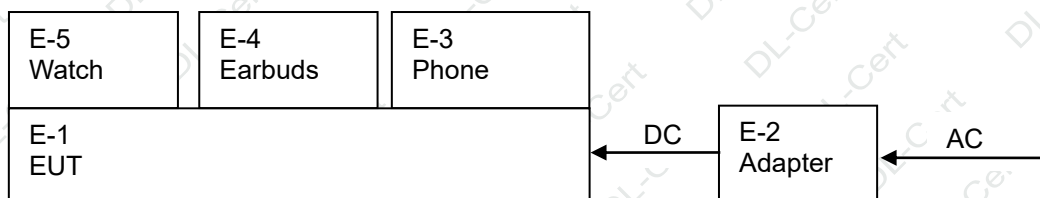
Conducted Emission

a. EUT mode of operation before folding:



Radiated Emission

a. EUT mode of operation before folding:





3.4 TEST CONDITIONS

Temperature: 23~26°C

Relative Humidity: 54~63 %

3.5 DESCRIPTION OF SUPPORT UNITS (CONDUCTED MODE)

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Note
E-1	3 in 1 wireless charger	PRESS PLAY	P3N1PFCR	N/A	EUT
E-2	AC/DC Adapter	SAMSUNG	EP-T4510	N/A	Auxiliary
E-3	Phone	APPLE	iPhone 13 Pro Max	N/A	Auxiliary
E-4	Earbuds	ULTRA	WS85	N/A	Auxiliary
E-5	Watch	BASEUS	E3	N/A	Auxiliary

Item	Shielded Type	Ferrite Core	Length	Note
C1	NO	NO	0.8M	DC cable unshielded

Note:

- (1) The support equipment was authorized by Declaration of Confirmation.
- (2) For detachable type I/O cable should be specified the length in cm in 『Length』 column.
- (3) “YES” is means “shielded” “with core”; “NO” is means “unshielded” “without core”.



3.6 EQUIPMENTS LIST FOR ALL TEST ITEMS

Radiation test, Band-edge test and 6db bandwidth test equipment

Item	Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
1	Spectrum Analyzer (9kHz-26.5GHz)	Agilent	E4408B	MY50140780	Nov. 01, 2024	Oct. 31, 2025
2	Test Receiver (9kHz-7GHz)	R&S	ESRP7	101393	Nov. 01, 2024	Oct. 31, 2025
3	Bilog Antenna (30MHz-1GHz)	R&S	VULB9162	00306	Nov. 01, 2024	Oct. 31, 2025
4	Horn Antenna (1GHz-18GHz)	Schwarzbeck	BBHA9120D	02139	Nov. 01, 2024	Oct. 31, 2025
5	Horn Antenna (18GHz-40GHz)	A.H. Systems	SAS-574	588	Nov. 01, 2024	Oct. 31, 2025
6	Amplifier (9kHz-6GHz)	Schwarzbeck	BBV9743B	00153	Nov. 01, 2024	Oct. 31, 2025
7	Amplifier (1GHz-18GHz)	EMEC	EM01G8GA	00270	Nov. 01, 2024	Oct. 31, 2025
8	Amplifier (18GHz-40GHz)	Quanjuda	DLE-161	97	Nov. 01, 2024	Oct. 31, 2025
9	Loop Antenna (9kHz-30MHz)	Schwarzbeck	FMZB1519B	00014	Nov. 01, 2024	Oct. 31, 2025
10	RF cables1 (9kHz-1GHz)	ChengYu	966	004	Nov. 01, 2024	Oct. 31, 2025
11	RF cables2 (1GHz-40GHz)	ChengYu	966	003	Nov. 01, 2024	Oct. 31, 2025
12	Antenna connector	Florida RF Labs	N/A	RF 01#	Nov. 01, 2024	Oct. 31, 2025
13	Power probe	KEYSIGHT	U2021XA	MY55210018	Nov. 01, 2024	Oct. 31, 2025
14	Signal Analyzer 9kHz-26.5GHz	Agilent	N9020A	MY55370280	Nov. 01, 2024	Oct. 31, 2025
15	Test Receiver 20kHz-40GHz	R&S	ESU 40	100376	Nov. 01, 2024	Oct. 31, 2025
16	D.C. Power Supply	LongWei	PS-305D	010964729	Nov. 01, 2024	Oct. 31, 2025

Conduction Test equipment

Item	Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
1	843 Shielded Room	YIHENG	843 Room	843	Nov. 05, 2023	Nov. 04, 2026
2	EMI Receiver	R&S	ESR	101421	Nov. 01, 2024	Oct. 31, 2025
3	LISN	R&S	ENV216	102417	Nov. 01, 2024	Oct. 31, 2025
4	843 Cable 1#	ChengYu	CE Cable	001	Nov. 01, 2024	Oct. 31, 2025

Other

Item	Name	Manufacturer	Model	Software version
1	EMC Conduction Test System	FALA	EZ EMC	EMC-CON 3A1.1
2	EMC radiation test system	FALA	EZ EMC	FA-03A2
3	RF test system	MAIWEI	MTS8310	2.0.0.0
4	RF communication test system	MAIWEI	MTS8200	2.0.0.0



4. CONDUCTED EMISSION TEST

4.1 CONDUCTED EMISSION MEASUREMENT

Test Requirement:	FCC Part15 C Section 15.207
Test Method:	ANSI C63.10:2020
Test Frequency Range:	150KHz to 30MHz
Receiver setup:	RBW=9KHz, VBW=30KHz, Sweep time=auto

4.1.1 POWER LINE CONDUCTED EMISSION Limits

FREQUENCY (MHz)	Limit (dBuV)		Standard
	Quas -peak	Average	
0.15 -0.5	66 - 56 *	56 - 46 *	FCC
0.50 -5.0	56.00	46.00	FCC
5.0 -30.0	60.00	50.00	FCC

Note:

(1) *Decreases with the logarithm of the frequency.

4.1.2 TEST PROCEDURE

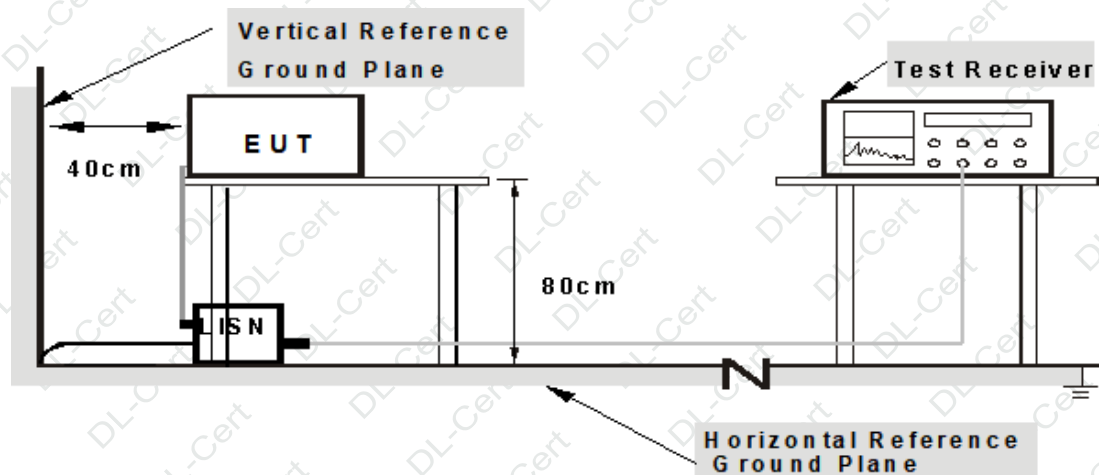
- The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- LISN at least 80 cm from nearest part of EUT chassis.
- For the actual test configuration, please refer to the related Item –EUT Test Photos.

4.1.3 DEVIATION FROM TEST STANDARD

No deviation



4.1.4 TEST SETUP



- Note:**
1. Support units were connected to second LISN.
 2. Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes

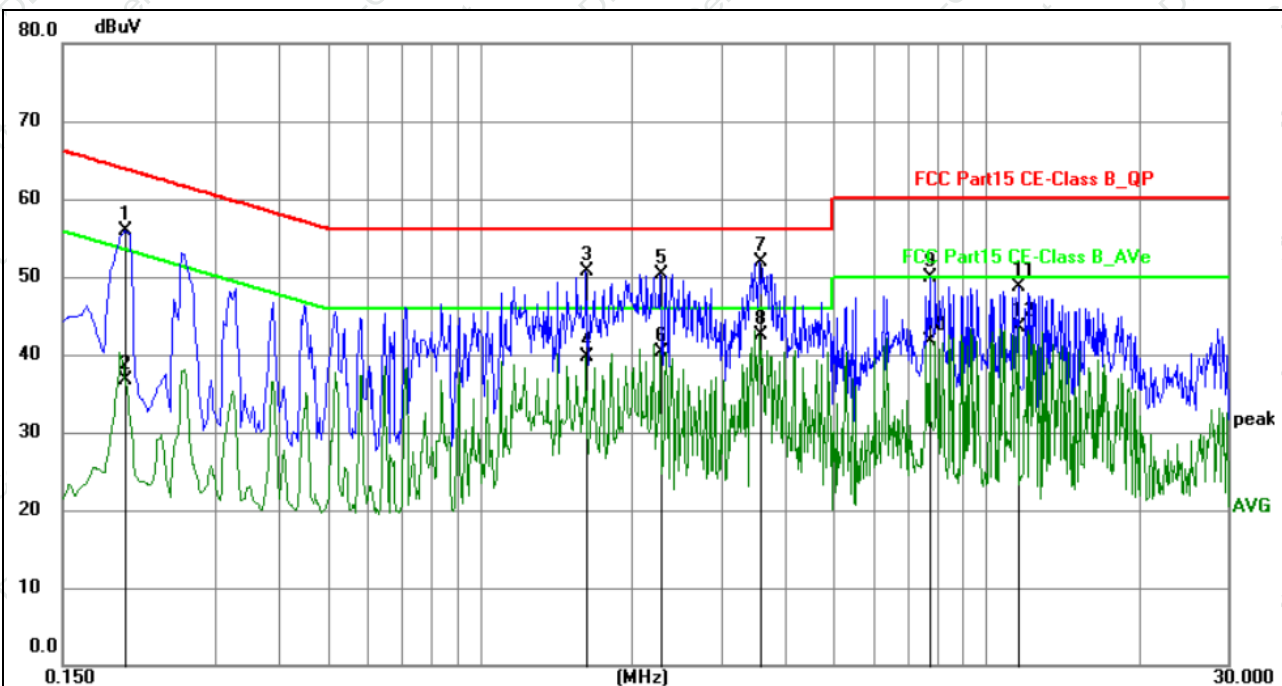
4.1.5 EUT OPERATING CONDITIONS

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.



4.1.6 TEST RESULT

Temperature :	26°C	Relative Humidity :	54%
Pressure :	101kPa	Phase :	L
Test Voltage :	AC 120V/60Hz	Test Mode :	Mode 19



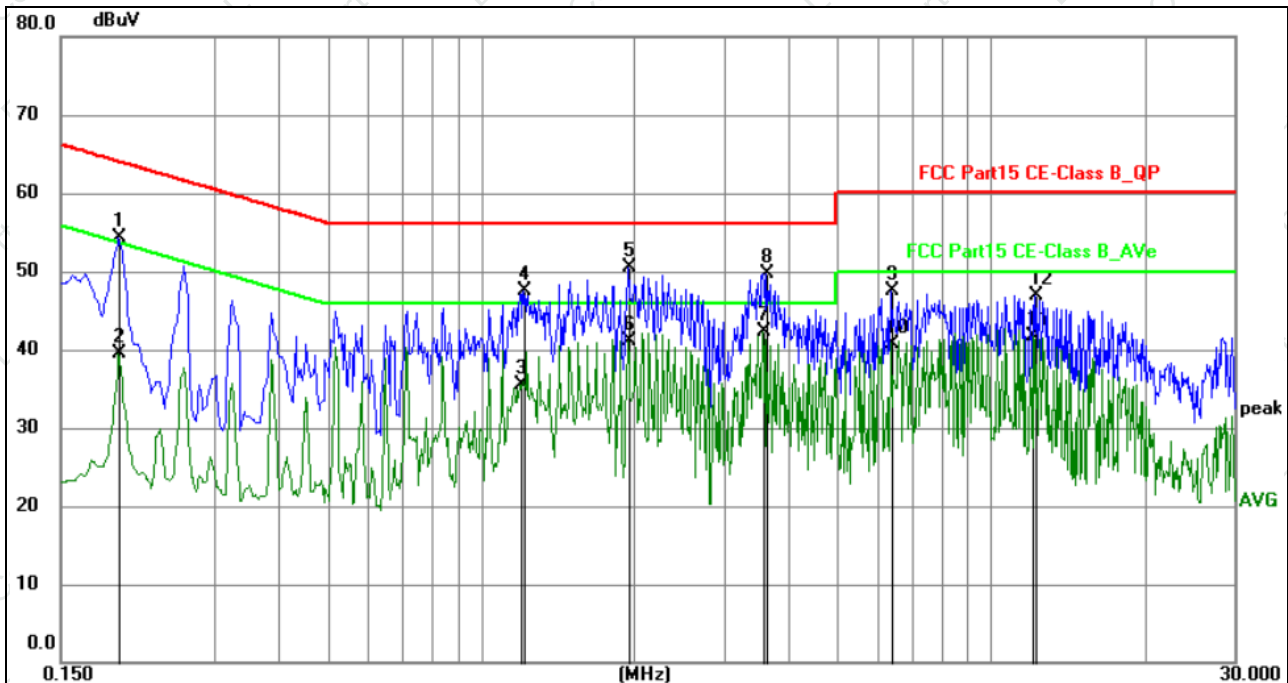
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.1995	35.51	20.38	55.89	63.63	-7.74	QP	P	
2	0.1995	16.37	20.38	36.75	53.63	-16.88	AVG	P	
3	1.6213	30.42	20.30	50.72	56.00	-5.28	QP	P	
4	1.6213	19.34	20.30	39.64	46.00	-6.36	AVG	P	
5	2.2738	30.06	20.32	50.38	56.00	-5.62	QP	P	
6	2.2738	19.98	20.32	40.30	46.00	-5.70	AVG	P	
7	3.5700	31.65	20.34	51.99	56.00	-4.01	QP	P	
8	3.5700	22.19	20.34	42.53	46.00	-3.47	AVG	P	
9	7.7279	29.44	20.41	49.85	60.00	-10.15	QP	P	
10	7.7279	21.26	20.41	41.67	50.00	-8.33	AVG	P	
11	11.5935	28.33	20.47	48.80	60.00	-11.20	QP	P	
12	11.5935	23.06	20.47	43.53	50.00	-6.47	AVG	P	

Notes:

1. An initial pre-scan was performed on the line and neutral lines with peak detector.
2. Quasi - Peak and Average measurement were performed at the frequencies with maximized peak emission.
3. Final Level = Reading level + Correct Factor.
4. Correct Factor = Lisen factor+ Cable loss factor + limiter factor.
5. Margin = Measurement Level-Limit.
6. All test modes were tested, with only the worst Mode 19 recorded.



Temperature :	26°C	Relative Humidity :	54%
Pressure :	101kPa	Phase :	N
Test Voltage :	AC 120V/60Hz	Test Mode :	Mode 19



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.1949	33.93	20.35	54.28	63.83	-9.55	QP	P	
2	0.1949	19.17	20.35	39.52	53.83	-14.31	AVG	P	
3	1.1939	15.29	20.30	35.59	46.00	-10.41	AVG	P	
4	1.2119	27.24	20.30	47.54	56.00	-8.46	QP	P	
5	1.9454	30.15	20.31	50.46	56.00	-5.54	QP	P	
6	1.9454	20.70	20.31	41.01	46.00	-4.99	AVG	P	
7	3.5745	22.04	20.33	42.37	46.00	-3.63	AVG	P	
8	3.6330	29.33	20.33	49.66	56.00	-6.34	QP	P	
9	6.3690	27.06	20.39	47.45	60.00	-12.55	QP	P	
10	6.3690	20.41	20.39	40.80	50.00	-9.20	AVG	P	
11	12.1110	21.19	20.48	41.67	50.00	-8.33	AVG	P	
12	12.2504	26.41	20.48	46.89	60.00	-13.11	QP	P	

Notes:

1. An initial pre-scan was performed on the line and neutral lines with peak detector.
2. Quasi - Peak and Average measurement were performed at the frequencies with maximized peak emission.
3. Final Level = Reading level + Correct Factor.
4. Correct Factor = Lisen factor+ Cable loss factor + limiter factor.
5. Margin = Measurement Level-Limit.
6. All test modes were tested, with only the worst Mode 19 recorded.

**5. RADIATED EMISSION MEASUREMENT**

Test Requirement:	FCC Part15 C Section 15.209				
Test Method:	ANSI C63.10:2020				
Test Frequency Range:	9kHz to 1GHz				
Test site:	Measurement Distance: 3m				
Receiver setup:	Frequency	Detector	RBW	VBW	Value
	9KHz-150KHz	Quasi-peak	200Hz	600Hz	Quasi-peak
	150KHz-30MHz	Quasi-peak	9KHz	30KHz	Quasi-peak
	30MHz-1GHz	Quasi-peak	120KHz	300KHz	Quasi-peak
	Above 1GHz	Peak	1MHz	3MHz	Peak
		Peak	1MHz	10Hz	Average

5.1 RADIATED EMISSION LIMITS**Limits for frequency below 30MHz**

Frequency	Limit (uV/m)	Measurement Distance(m)	Remark
0.009-0.490	2400/F(kHz)	300	Quasi-peak Value
0.490-1.705	24000/F(kHz)	30	Quasi-peak Value
1.705-30	30	30	Quasi-peak Value

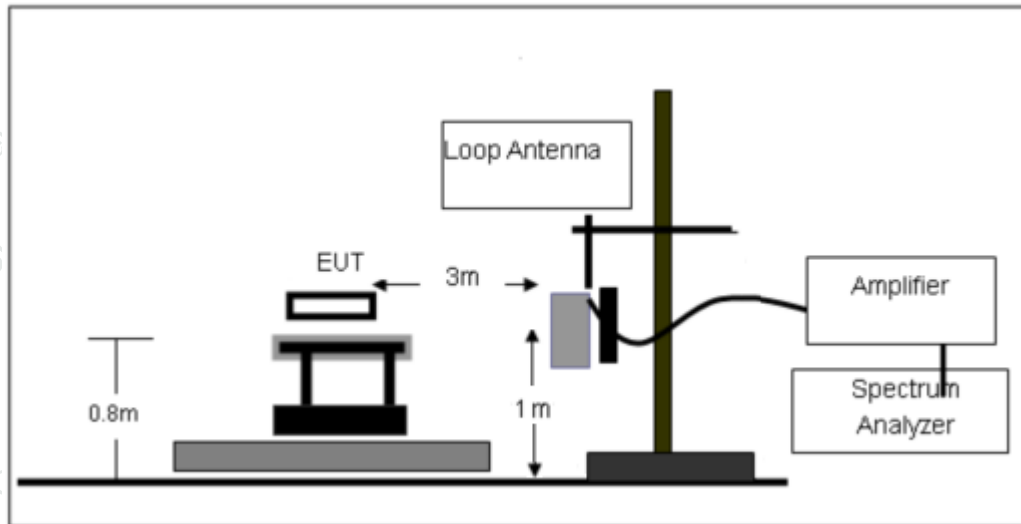
Limits for frequency Above 30MHz

Frequency	Limit (dBuV/m @3m)	Remark
30MHz-88MHz	40.00	Quasi-peak Value
88MHz-216MHz	43.50	Quasi-peak Value
216MHz-960MHz	46.00	Quasi-peak Value
960MHz-1GHz	54.00	Quasi-peak Value
Above 1GHz	54.00	Average Value
	74.00	Peak Value

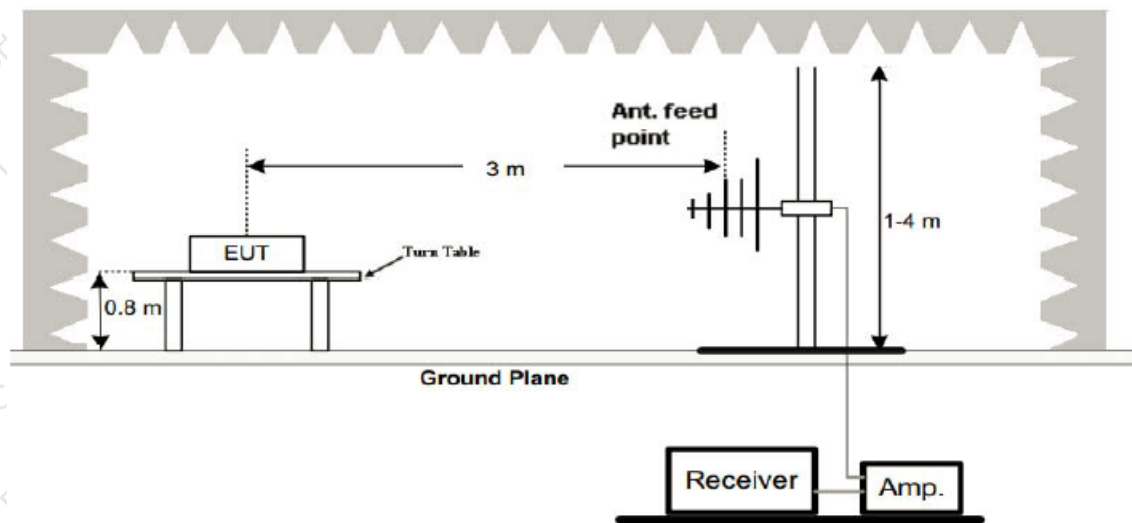


5.2 ANECHOIC CHAMBER TEST SETUP DIAGRAM

(A) Radiated Emission Test-Up Frequency Below 30MHz



(B) Radiated Emission Test-Up Frequency 30MHz~1GHz



The radiated emission tests were performed in the 3 meters chamber test site, using the setup accordance with the ANSI C63.10:2020. The specification used was the FCC 15.209 and FCC 15.205 limits.



5.3 TEST PROCEDURE

Below 30MHz

- The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meters semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- The EUT was set 3 meters away from the interference-receiving loop antenna and in the center of a loop antenna, which was mounted on the top of a variable-height antenna tower.
- For each suspected emission, the EUT was arranged to its worst case, the height of interference-receiving loop antenna centre is 1 meter above the ground, and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- Both Coaxial (loop plane perpendicular to the ground plane and to the measurement axis) and coplanar (loop plane perpendicular to the ground plane and coplanar with the measurement axis) polarizations of the antenna are set to make the measurement.
- The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1 GHz.

30MHz-1GHz

- The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meters semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- The antenna is a broadband antenna, and its height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1 GHz.

5.4 DEVIATION FROM TEST STANDARD

No deviation

5.5 TEST RESULT

Measurement data:

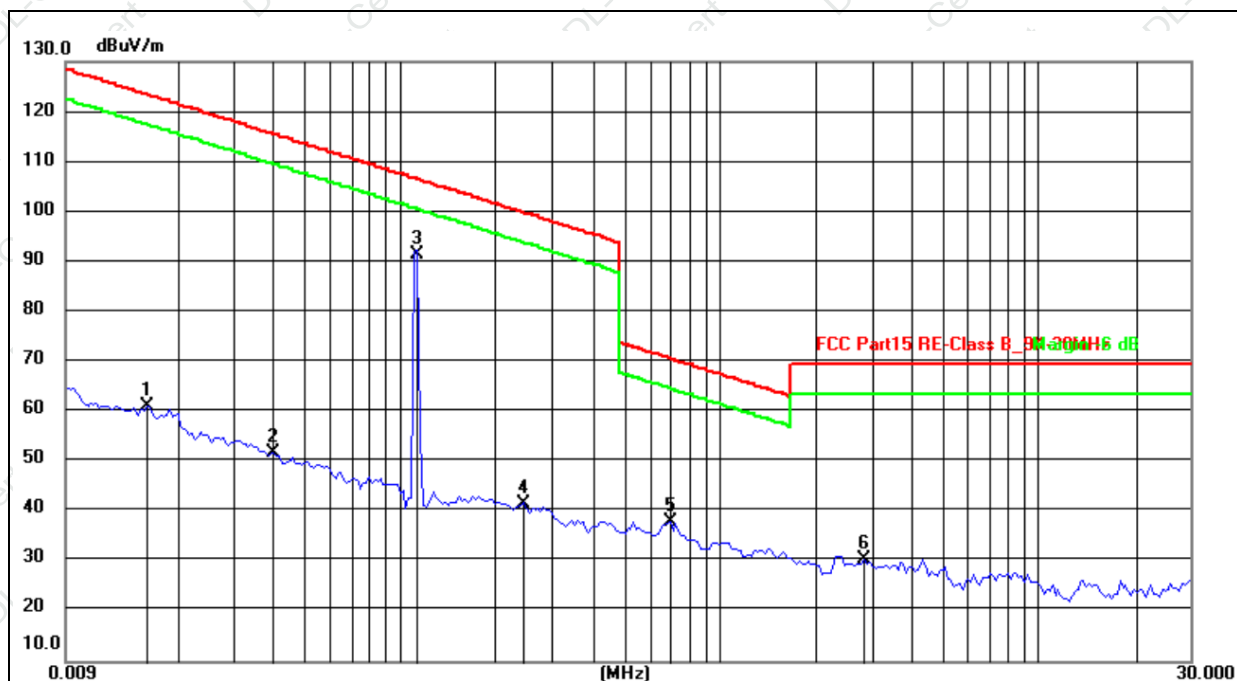
Note: Limit dBuV/m @3m = Limit dBuV/m @300m + 80

Limit dBuV/m @3m = Limit dBuV/m @30m + 40



ANT-1 - 9 kHz~30 MHz

Temperature :	26℃	Relative Humidity :	54%
Pressure :	101 kPa	Polarization :	Coaxial
Test Voltage :	DC 9V From Adapter AC 120V/60Hz	Test Mode :	Mode 1



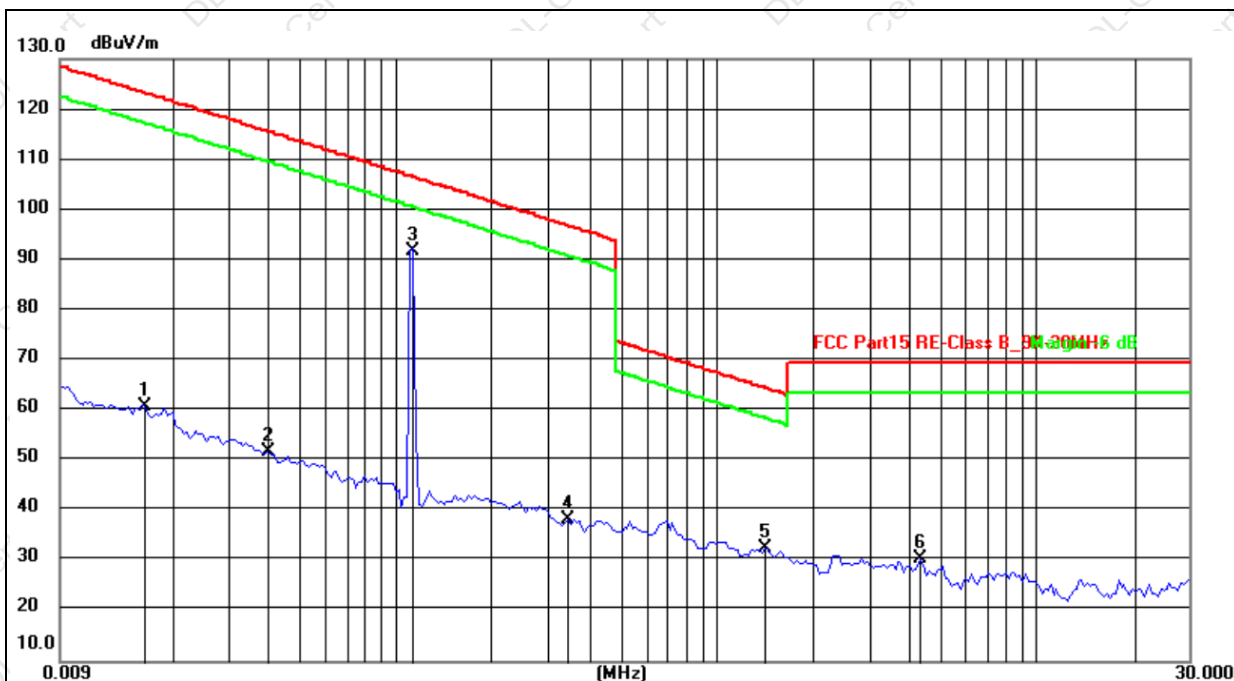
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	0.0160	40.57	20.49	61.06	123.52	-62.46	peak
2	0.0403	31.81	19.98	51.79	115.50	-63.71	peak
3	0.1120	71.74	19.83	91.57	106.62	-15.05	peak
4	0.2452	21.70	20.10	41.80	99.81	-58.01	peak
5	0.7043	17.75	20.38	38.13	70.65	-32.52	peak
6	2.8542	11.02	19.67	30.69	69.54	-38.85	peak

Remarks:

1. An initial pre-scan was performed on the peak detector.
2. Quasi-Peak measurement were performed at the frequencies with maximized peak emission.
3. Final Level = Reading level + Correct Factor.
4. Correct Factor = Antenna factor+ Cable loss factor - Amplifier factor.
5. Margin= Measurement Level-Limit.
6. All test modes were tested, with only the worst Mode 1 recorded.



Temperature :	26℃	Relative Humidity :	54%
Pressure :	101 kPa	Polarization :	Coplanar
Test Voltage :	DC 9V From Adapter AC 120V/60Hz	Test Mode :	Mode 1



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	0.0165	40.50	20.48	60.98	123.26	-62.28	peak
2	0.0403	31.81	19.98	51.79	115.50	-63.71	peak
3	0.1120	71.82	19.83	91.65	106.62	-14.97	peak
4	0.3462	18.20	20.14	38.34	96.82	-58.48	peak
5	1.4314	12.82	19.88	32.70	64.49	-31.79	peak
6	4.3695	10.97	19.52	30.49	69.54	-39.05	peak

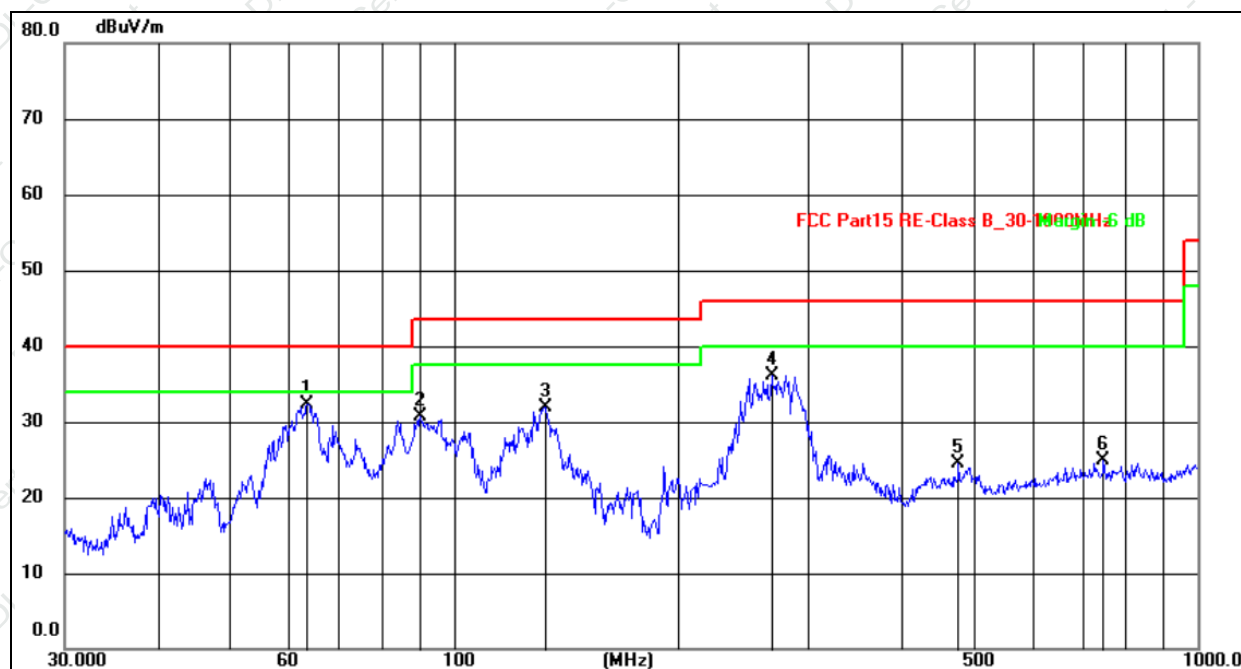
Remarks:

1. An initial pre-scan was performed on the peak detector.
2. Quasi-Peak measurement were performed at the frequencies with maximized peak emission.
3. Final Level = Reading level + Correct Factor.
4. Correct Factor = Antenna factor + Cable loss factor - Amplifier factor.
5. Margin = Measurement Level - Limit.
6. All test modes were tested, with only the worst Mode 1 recorded.



ANT-1 - 30MHz-1GHz

Temperature:	26°C	Relative Humidity:	54%
Pressure:	101 kPa	Polarization:	Horizontal
Test Voltage:	DC 9V From Adapter AC 120V/60Hz	Test Mode:	Mode 1



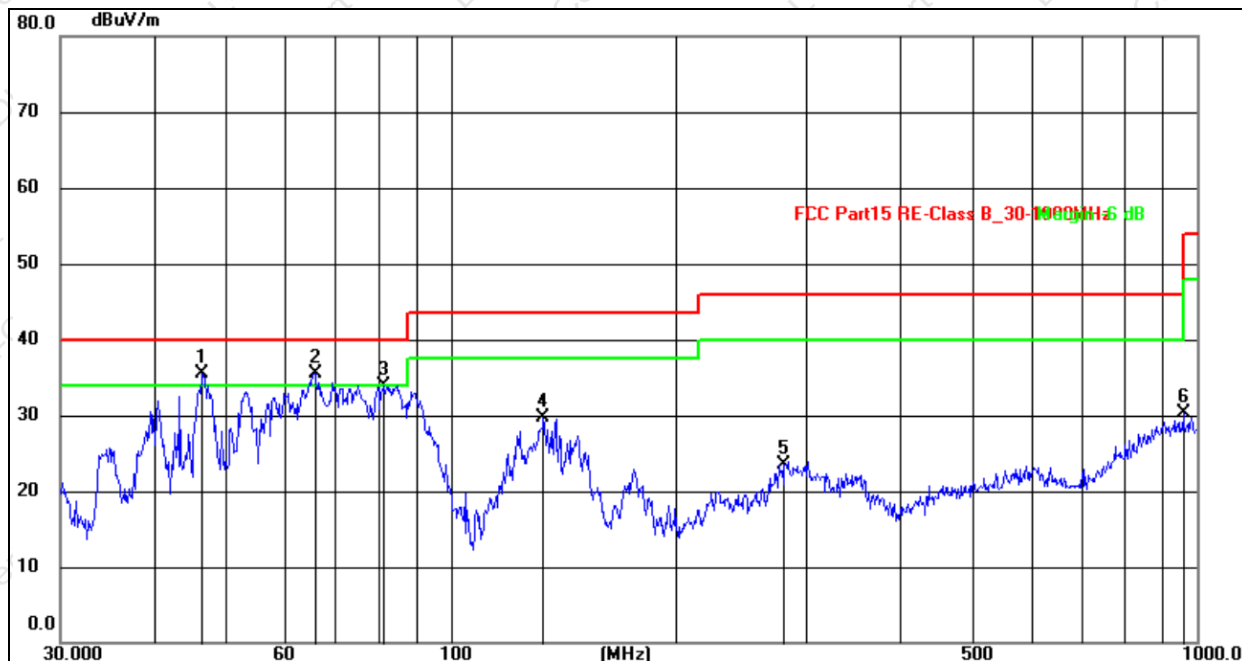
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	63.5356	45.83	-15.07	30.76	40.00	-9.24	QP
2	90.2202	47.25	-20.06	27.19	43.50	-16.31	QP
3	132.6850	44.85	-17.36	27.49	43.50	-16.01	QP
4	267.5452	48.84	-14.71	34.13	46.00	-11.87	QP
5	477.1693	33.64	-12.18	21.46	46.00	-24.54	QP
6	747.4823	30.45	-6.54	23.91	46.00	-22.09	QP

Remarks:

1. An initial pre-scan was performed on the peak detector.
2. Quasi-Peak measurement were performed at the frequencies with maximized peak emission.
3. Final Level = Reading level + Correct Factor.
4. Correct Factor = Antenna factor+ Cable loss factor - Amplifier factor.
5. Margin= Measurement Level-Limit.
6. All test modes were tested, with only the worst Mode 1 recorded.



Temperature:	26°C	Relative Humidity:	54%
Pressure:	101kPa	Polarization:	Vertical
Test Voltage:	DC 9V From Adapter AC 120V/60Hz	Test Mode:	Mode 1



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	46.5030	52.49	-17.04	35.45	40.00	-4.55	QP
2	65.8028	54.31	-18.80	35.51	40.00	-4.49	QP
3	81.2116	55.65	-21.70	33.95	40.00	-6.05	QP
4	133.1510	50.60	-20.90	29.70	43.50	-13.80	QP
5	280.0237	42.03	-18.54	23.49	46.00	-22.51	QP
6	958.7943	30.42	-0.12	30.30	46.00	-15.70	QP

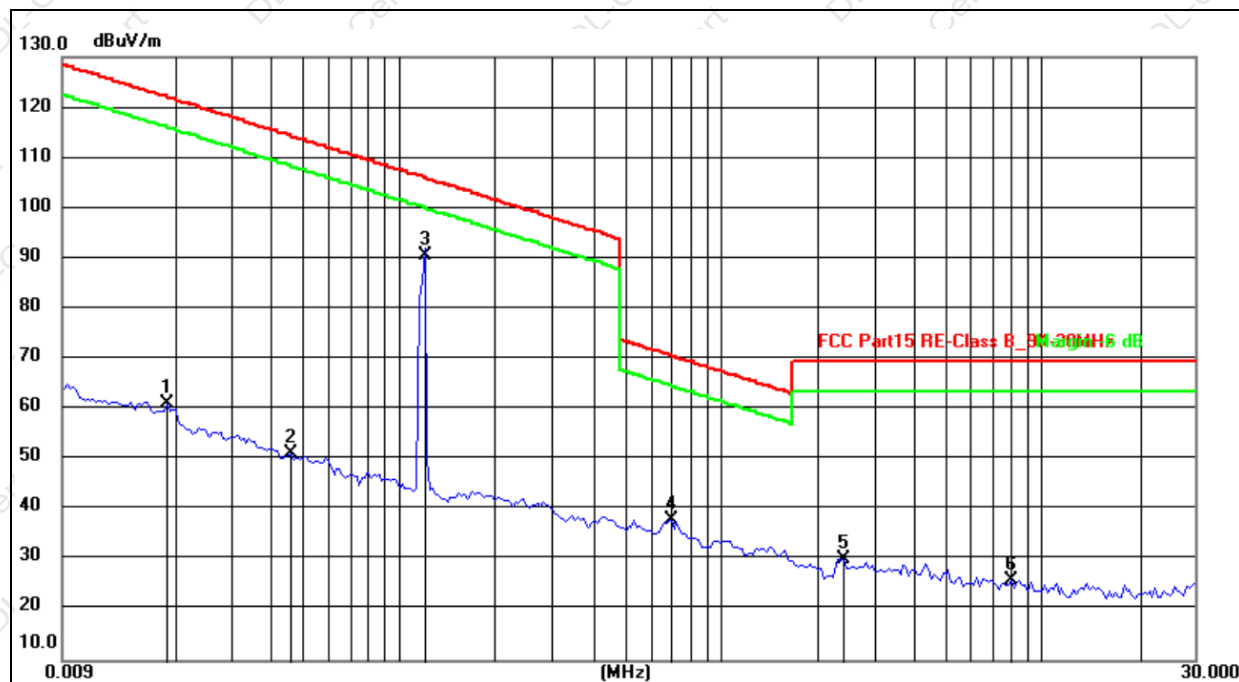
Remarks:

1. An initial pre-scan was performed on the peak detector.
2. Quasi-Peak measurement were performed at the frequencies with maximized peak emission.
3. Final Level = Reading level + Correct Factor.
4. Correct Factor = Antenna factor + Cable loss factor - Amplifier factor.
5. Margin = Measurement Level - Limit.
6. All test modes were tested, with only the worst Mode 1 recorded.



ANT-2 - 9 kHz~30 MHz

Temperature :	26°C	Relative Humidity :	54%
Pressure :	101 kPa	Polarization :	Coaxial
Test Voltage :	DC 9V From Adapter AC 120V/60Hz	Test Mode :	Mode 4



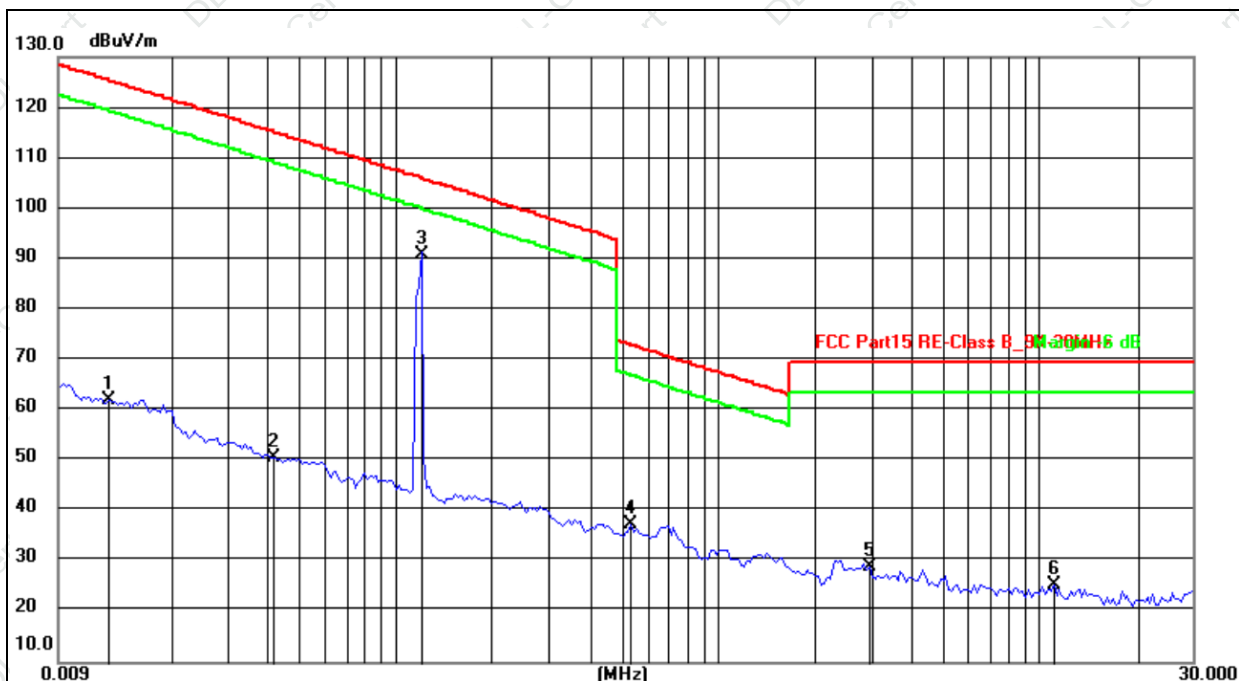
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	0.0189	40.56	20.46	61.02	122.08	-61.06	peak
2	0.0463	31.55	19.84	51.39	114.29	-62.90	peak
3	0.1190	70.76	19.87	90.63	106.09	-15.46	peak
4	0.7043	17.75	20.38	38.13	70.65	-32.52	peak
5	2.4266	10.52	19.73	30.25	69.54	-39.29	peak
6	8.0288	6.76	19.19	25.95	69.54	-43.59	peak

Remarks:

1. An initial pre-scan was performed on the peak detector.
2. Quasi-Peak measurement were performed at the frequencies with maximized peak emission.
3. Final Level = Reading level + Correct Factor.
4. Correct Factor = Antenna factor+ Cable loss factor - Amplifier factor.
5. Margin= Measurement Level-Limit.
6. All test modes were tested, with only the worst Mode 4 recorded.



Temperature :	26℃	Relative Humidity :	54%
Pressure :	101 kPa	Polarization :	Coplanar
Test Voltage :	DC 9V From Adapter AC 120V/60Hz	Test Mode :	Mode 4



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	0.0129	41.57	20.52	62.09	125.39	-63.30	peak
2	0.0420	30.83	19.94	50.77	115.14	-64.37	peak
3	0.1190	70.87	19.87	90.74	106.09	-15.35	peak
4	0.5410	17.20	20.23	37.43	72.94	-35.51	peak
5	2.9723	9.30	19.65	28.95	69.54	-40.59	peak
6	11.1059	6.43	18.99	25.42	69.54	-44.12	peak

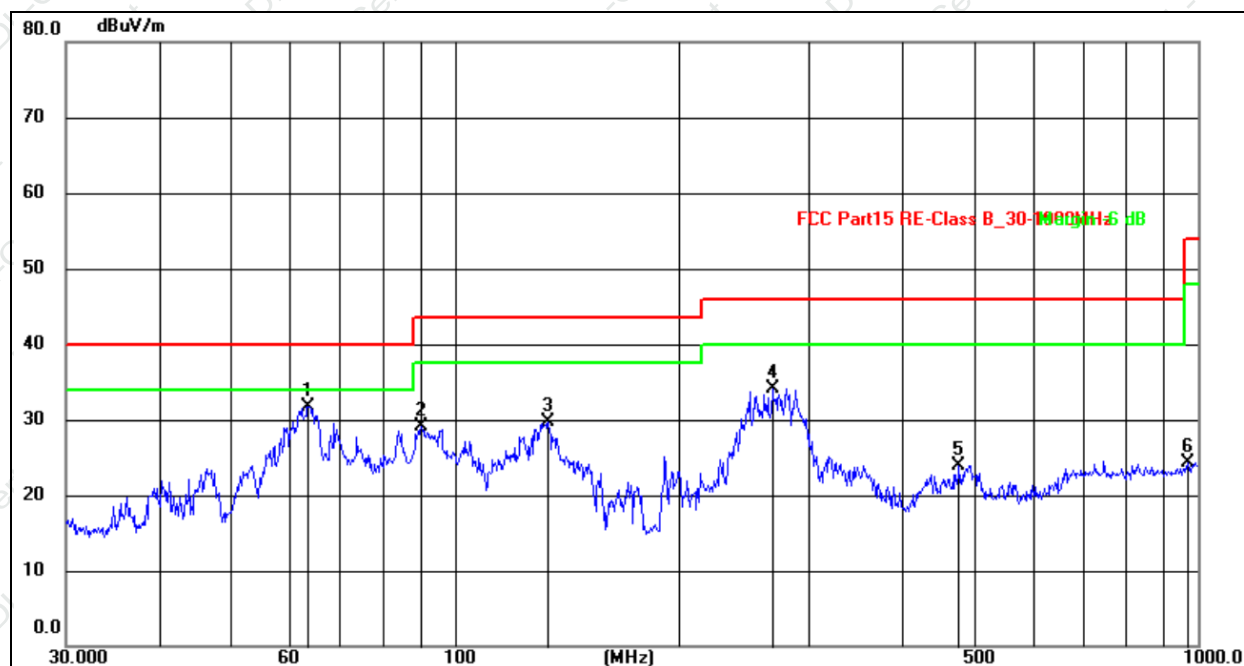
Remarks:

1. An initial pre-scan was performed on the peak detector.
2. Quasi-Peak measurement were performed at the frequencies with maximized peak emission.
3. Final Level = Reading level + Correct Factor.
4. Correct Factor = Antenna factor+ Cable loss factor - Amplifier factor.
5. Margin= Measurement Level-Limit.
6. All test modes were tested, with only the worst Mode 4 recorded.



ANT-2 - 30MHz-1GHz

Temperature:	26℃	Relative Humidity:	54%
Pressure:	101 kPa	Polarization:	Horizontal
Test Voltage:	DC 9V From Adapter AC 120V/60Hz	Test Mode:	Mode 4



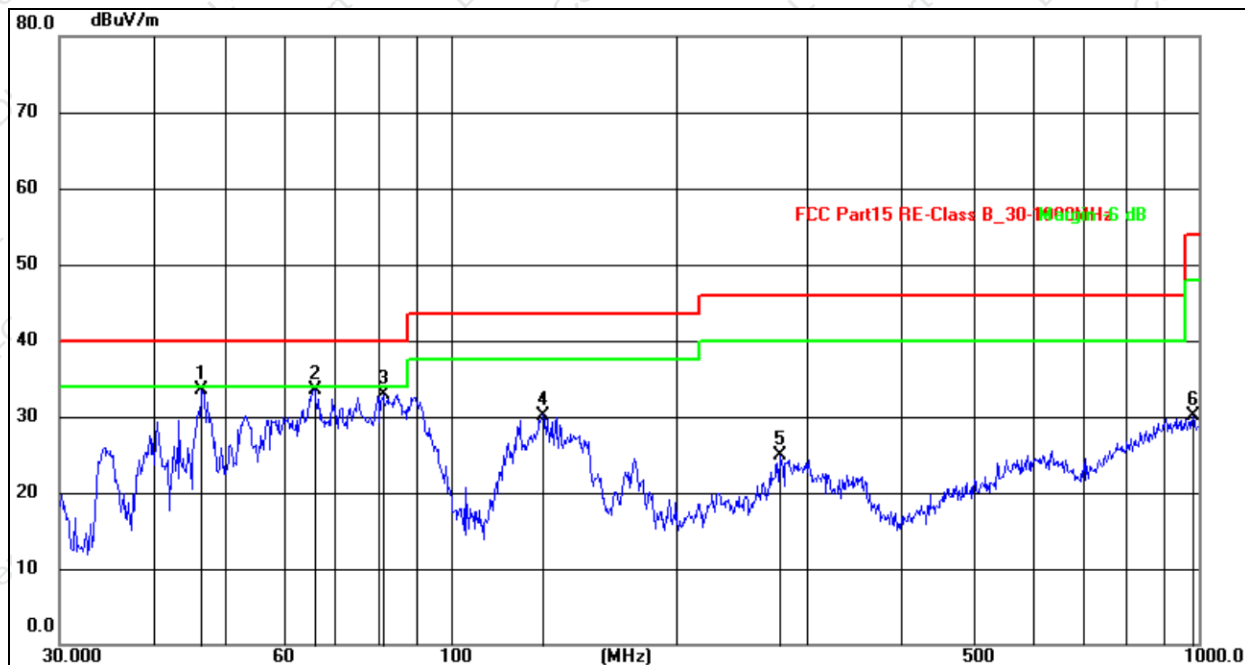
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	63.5356	46.83	-15.07	31.76	40.00	-8.24	QP
2	90.2202	49.25	-20.06	29.19	43.50	-14.31	QP
3	133.6184	46.91	-17.27	29.64	43.50	-13.86	QP
4	267.5452	48.84	-14.71	34.13	46.00	-11.87	QP
5	477.1693	36.14	-12.18	23.96	46.00	-22.04	QP
6	968.9337	29.46	-5.22	24.24	54.00	-29.76	QP

Remarks:

1. An initial pre-scan was performed on the peak detector.
2. Quasi-Peak measurement were performed at the frequencies with maximized peak emission.
3. Final Level = Reading level + Correct Factor.
4. Correct Factor = Antenna factor+ Cable loss factor - Amplifier factor.
5. Margin= Measurement Level-Limit.
6. All test modes were tested, with only the worst Mode 4 recorded.



Temperature:	26°C	Relative Humidity:	54%
Pressure:	101kPa	Polarization:	Vertical
Test Voltage:	DC 9V From Adapter AC 120V/60Hz	Test Mode:	Mode 4



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	46.5030	50.49	-17.04	33.45	40.00	-6.55	QP
2	65.8028	52.31	-18.80	33.51	40.00	-6.49	QP
3	81.2116	54.65	-21.70	32.95	40.00	-7.05	QP
4	133.1510	51.10	-20.90	30.20	43.50	-13.30	QP
5	275.1569	43.67	-18.72	24.95	46.00	-21.05	QP
6	982.6200	30.16	-0.01	30.15	54.00	-23.85	QP

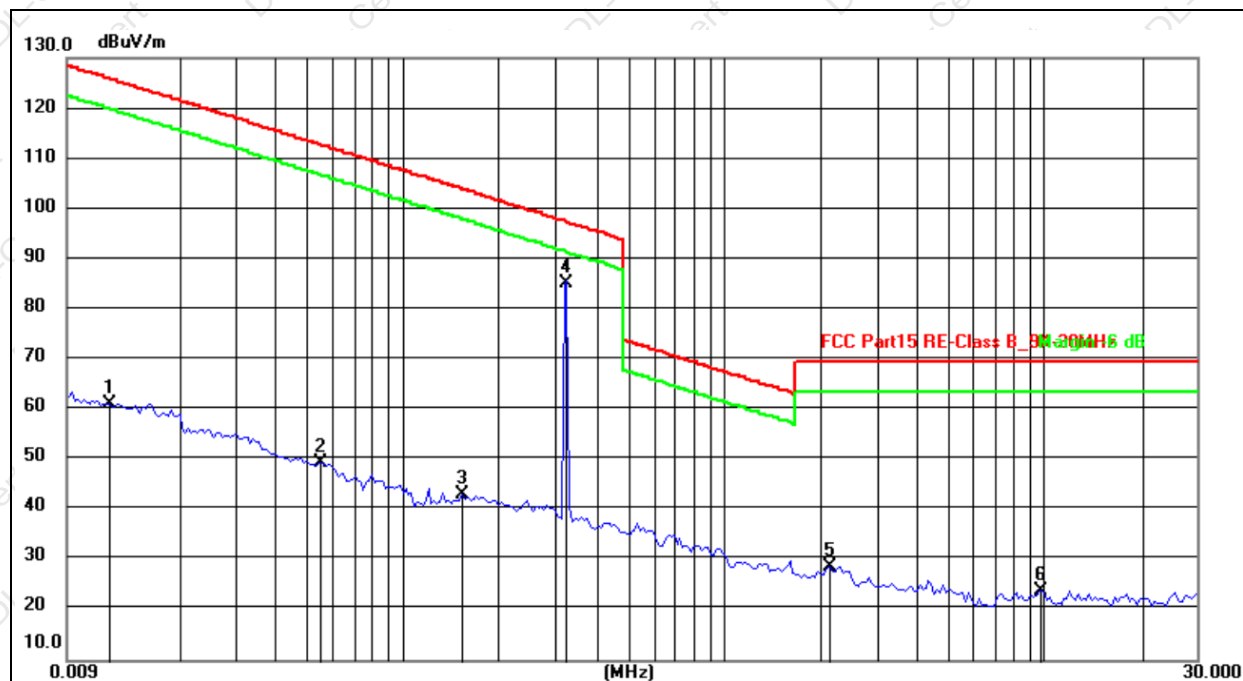
Remarks:

1. An initial pre-scan was performed on the peak detector.
2. Quasi-Peak measurement were performed at the frequencies with maximized peak emission.
3. Final Level = Reading level + Correct Factor.
4. Correct Factor = Antenna factor+ Cable loss factor - Amplifier factor.
5. Margin= Measurement Level-Limit.
6. All test modes were tested, with only the worst Mode 4 recorded.



ANT3 - 9 kHz~30 MHz

Temperature :	26℃	Relative Humidity :	54%
Pressure :	101 kPa	Polarization :	Coaxial
Test Voltage :	DC 9V From Adapter AC 120V/60Hz	Test Mode :	Mode 7



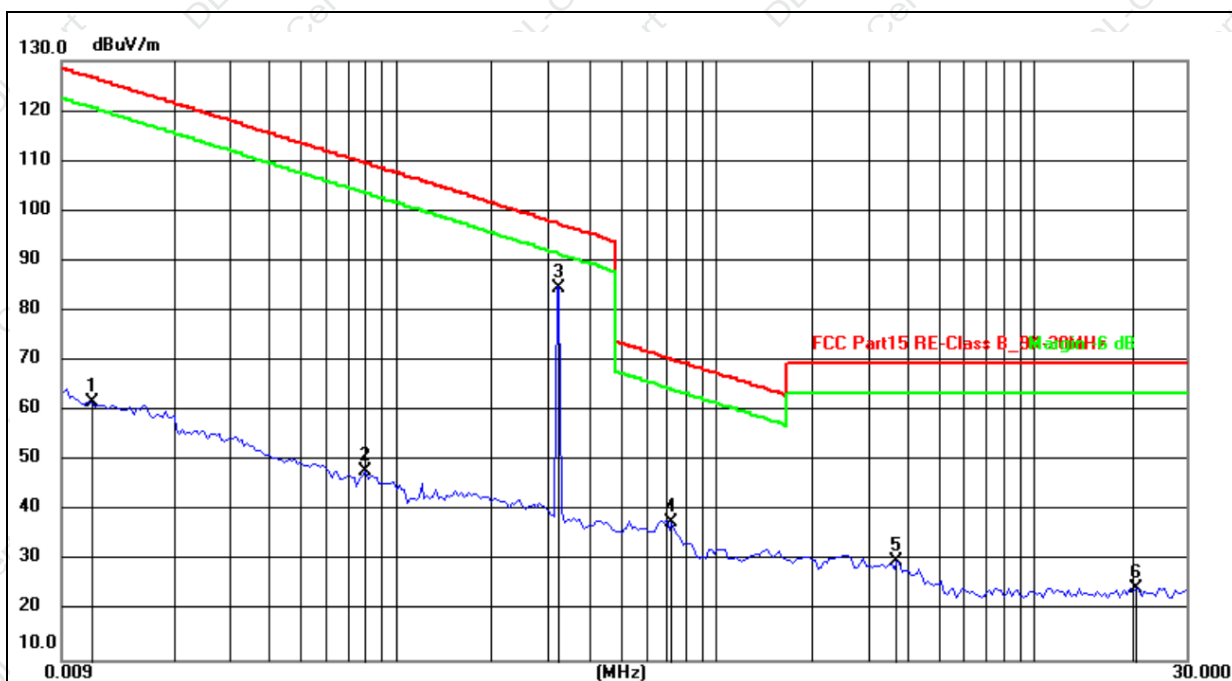
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	0.0120	40.77	20.53	61.30	126.02	-64.72	peak
2	0.0558	29.56	19.77	49.33	112.67	-63.34	peak
3	0.1539	23.01	20.06	43.07	103.86	-60.79	peak
4	0.3240	65.08	20.13	85.21	97.39	-12.18	peak
5	2.1486	9.06	19.78	28.84	69.54	-40.70	peak
6	9.8338	4.99	19.02	24.01	69.54	-45.53	peak

Remarks:

1. An initial pre-scan was performed on the peak detector.
2. Quasi-Peak measurement were performed at the frequencies with maximized peak emission.
3. Final Level = Reading level + Correct Factor.
4. Correct Factor = Antenna factor+ Cable loss factor - Amplifier factor.
5. Margin= Measurement Level-Limit.
6. All test modes were tested, with only the worst Mode 7 recorded.



Temperature :	26℃	Relative Humidity :	54%
Pressure :	101 kPa	Polarization :	Coplanar
Test Voltage :	DC 9V From Adapter AC 120V/60Hz	Test Mode :	Mode 7



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	0.0111	41.12	20.54	61.66	126.70	-65.04	peak
2	0.0801	28.21	19.84	48.05	109.53	-61.48	peak
3	0.3240	64.48	20.13	84.61	97.39	-12.78	peak
4	0.7335	17.45	20.41	37.86	70.30	-32.44	peak
5	3.7151	10.49	19.59	30.08	69.54	-39.46	peak
6	20.8246	6.17	18.42	24.59	69.54	-44.95	peak

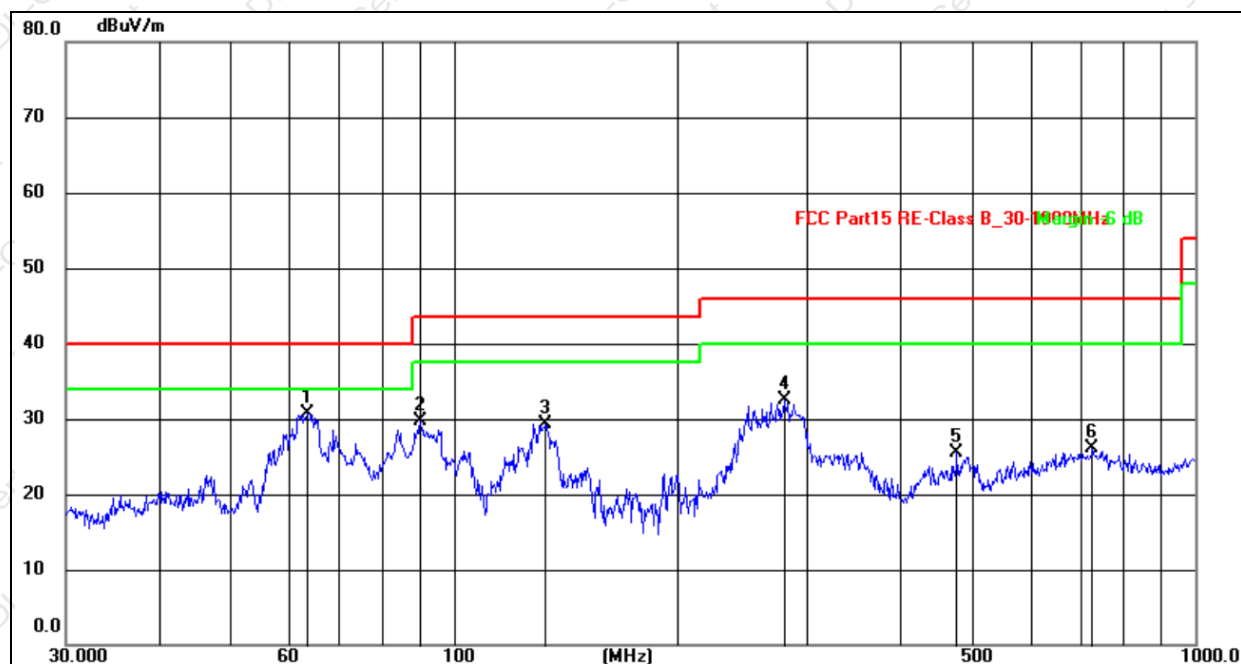
Remarks:

1. An initial pre-scan was performed on the peak detector.
2. Quasi-Peak measurement were performed at the frequencies with maximized peak emission.
3. Final Level = Reading level + Correct Factor.
4. Correct Factor = Antenna factor+ Cable loss factor - Amplifier factor.
5. Margin= Measurement Level-Limit.
6. All test modes were tested, with only the worst Mode 7 recorded.



ANT-3 - 30MHz-1GHz

Temperature:	26℃	Relative Humidity:	54%
Pressure:	101 kPa	Polarization:	Horizontal
Test Voltage:	DC 9V From Adapter AC 120V/60Hz	Test Mode:	Mode 7



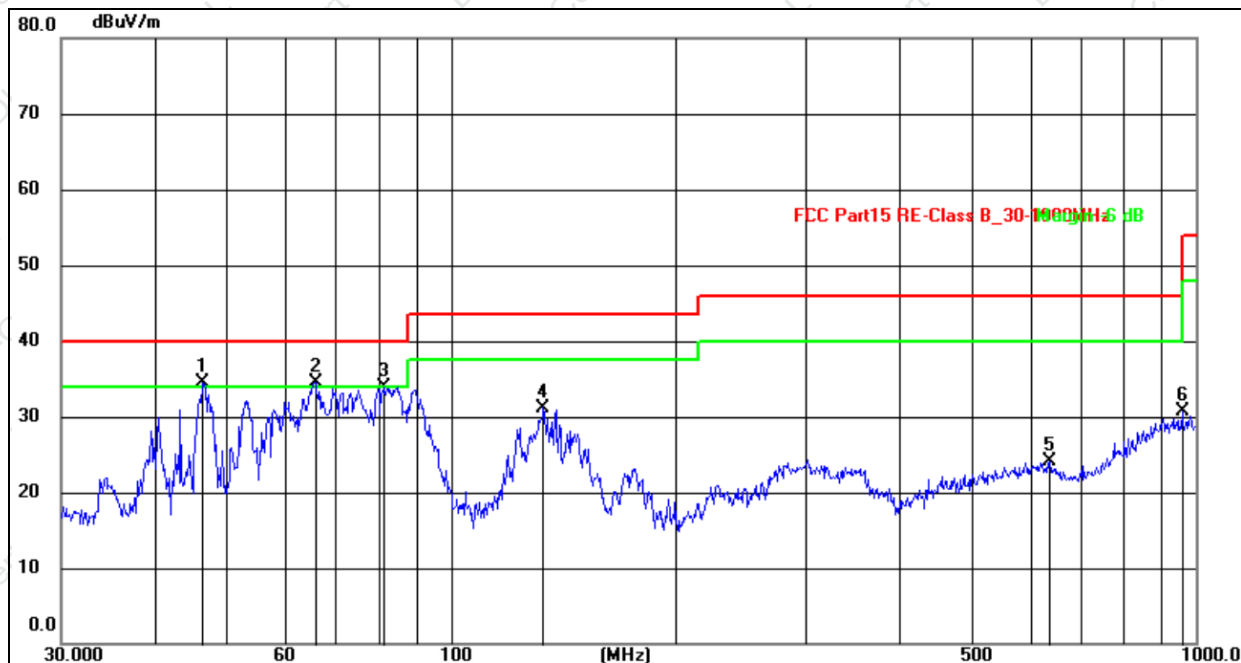
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	63.5356	45.83	-15.07	30.76	40.00	-9.24	QP
2	90.2202	49.75	-20.06	29.69	43.50	-13.81	QP
3	133.1510	46.66	-17.32	29.34	43.50	-14.16	QP
4	279.0436	46.52	-14.00	32.52	46.00	-13.48	QP
5	477.1693	37.64	-12.18	25.46	46.00	-20.54	QP
6	726.8052	32.55	-6.49	26.06	46.00	-19.94	QP

Remarks:

- 1.An initial pre-scan was performed on the peak detector.
- 2.Quasi-Peak measurement were performed at the frequencies with maximized peak emission.
- 3.Final Level = Reading level + Correct Factor.
- 4.Correct Factor = Antenna factor+ Cable loss factor - Amplifier factor.
- 5.Margin= Measurement Level-Limit.
- 6.All test modes were tested, with only the worst Mode 7 recorded.



Temperature:	26°C	Relative Humidity:	54%
Pressure:	101kPa	Polarization:	Vertical
Test Voltage:	DC 9V From Adapter AC 120V/60Hz	Test Mode:	Mode 7



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	46.5030	51.49	-17.04	34.45	40.00	-5.55	QP
2	65.8028	53.31	-18.80	34.51	40.00	-5.49	QP
3	81.2116	55.65	-21.70	33.95	40.00	-6.05	QP
4	133.1510	52.10	-20.90	31.20	43.50	-12.30	QP
5	636.1340	31.36	-7.35	24.01	46.00	-21.99	QP
6	958.7943	30.92	-0.12	30.80	46.00	-15.20	QP

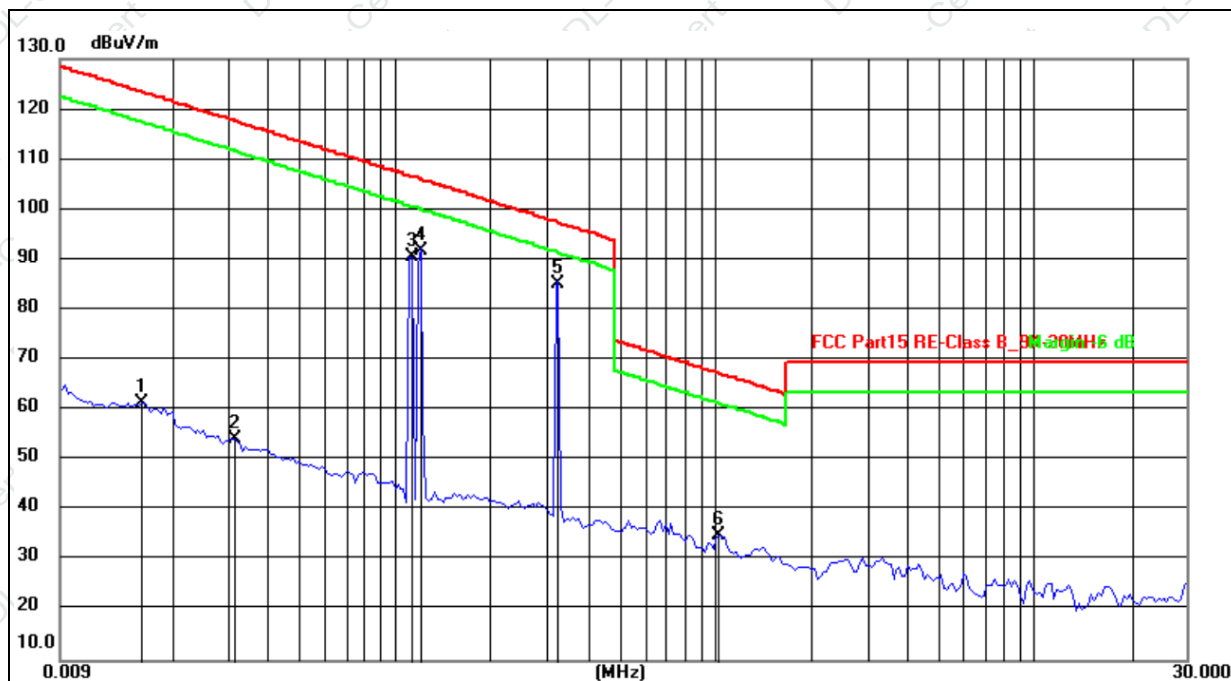
Remarks:

1. An initial pre-scan was performed on the peak detector.
2. Quasi-Peak measurement were performed at the frequencies with maximized peak emission.
3. Final Level = Reading level + Correct Factor.
4. Correct Factor = Antenna factor + Cable loss factor - Amplifier factor.
5. Margin = Measurement Level - Limit.
6. All test modes were tested, with only the worst Mode 7 recorded.



ANT1+2+3 - 9 kHz~30 MHz

Temperature :	26°C	Relative Humidity :	54%
Pressure :	101 kPa	Polarization :	Coaxial
Test Voltage :	DC 9V From Adapter AC 120V/60Hz	Test Mode :	Mode 19



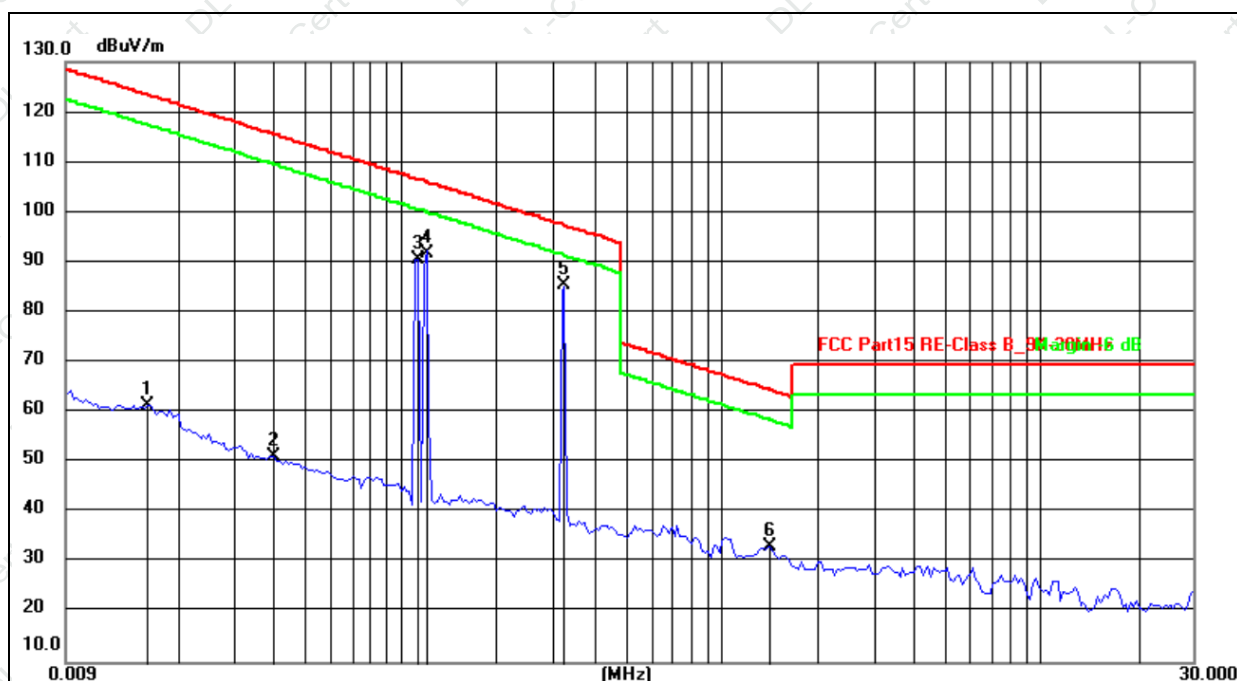
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	0.0160	41.07	20.49	61.56	123.52	-61.96	peak
2	0.0316	34.07	20.18	54.25	117.61	-63.36	peak
3	0.1120	70.70	19.83	90.53	106.62	-16.09	peak
4	0.1190	71.84	19.87	91.71	106.09	-14.38	peak
5	0.3240	65.08	20.13	85.21	97.39	-12.18	peak
6	1.0354	15.01	19.94	34.95	67.30	-32.35	peak

Remarks:

1. An initial pre-scan was performed on the peak detector.
2. Quasi-Peak measurement were performed at the frequencies with maximized peak emission.
3. Final Level = Reading level + Correct Factor.
4. Correct Factor = Antenna factor+ Cable loss factor - Amplifier factor.
5. Margin= Measurement Level-Limit.
6. All test modes were tested, with only the worst Mode 19 recorded.



Temperature :	26°C	Relative Humidity :	54%
Pressure :	101 kPa	Polarization :	Coplanar
Test Voltage :	DC 9V From Adapter AC 120V/60Hz	Test Mode :	Mode 19



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	0.0160	41.07	20.49	61.56	123.52	-61.96	peak
2	0.0403	31.31	19.98	51.29	115.50	-64.21	peak
3	0.1120	70.68	19.83	90.51	106.62	-16.11	peak
4	0.1190	71.89	19.87	91.76	106.09	-14.33	peak
5	0.3240	65.36	20.13	85.49	97.39	-11.90	peak
6	1.4314	13.32	19.88	33.20	64.49	-31.29	peak

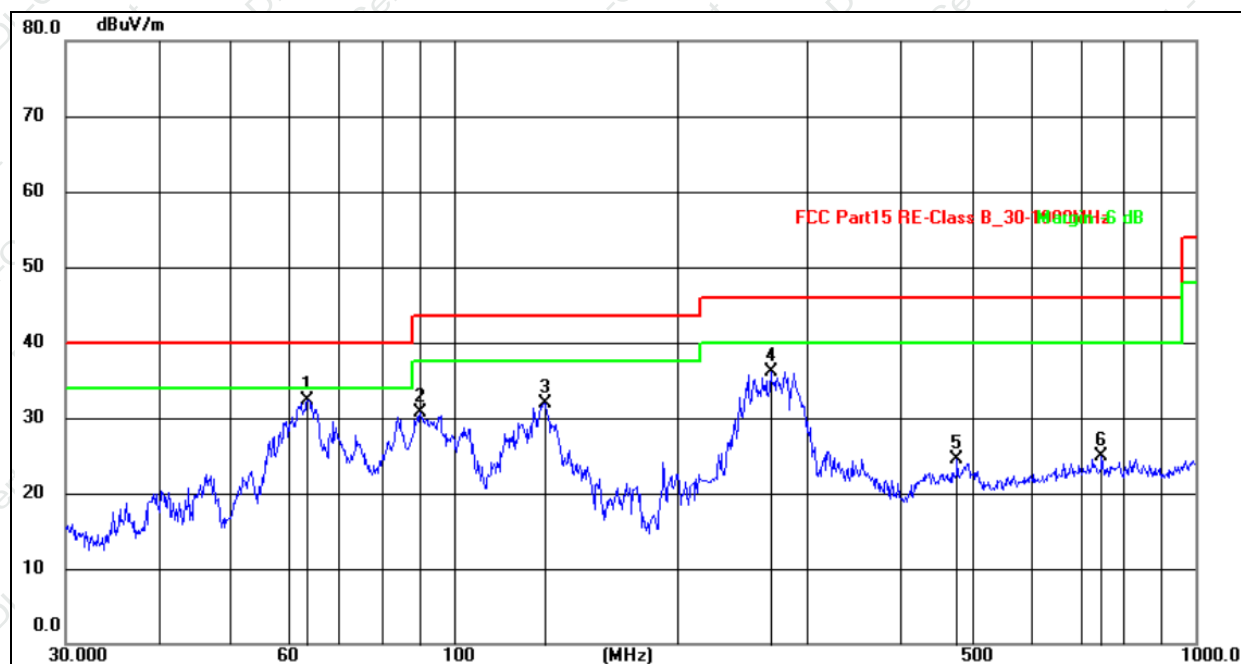
Remarks:

1. An initial pre-scan was performed on the peak detector.
2. Quasi-Peak measurement were performed at the frequencies with maximized peak emission.
3. Final Level = Reading level + Correct Factor.
4. Correct Factor = Antenna factor+ Cable loss factor - Amplifier factor.
5. Margin= Measurement Level-Limit.
6. All test modes were tested, with only the worst Mode 19 recorded.



ANT1+2+3 - 30MHz-1GHz

Temperature:	26°C	Relative Humidity:	54%
Pressure:	101 kPa	Polarization:	Horizontal
Test Voltage:	DC 9V From Adapter AC 120V/60Hz	Test Mode:	Mode 19



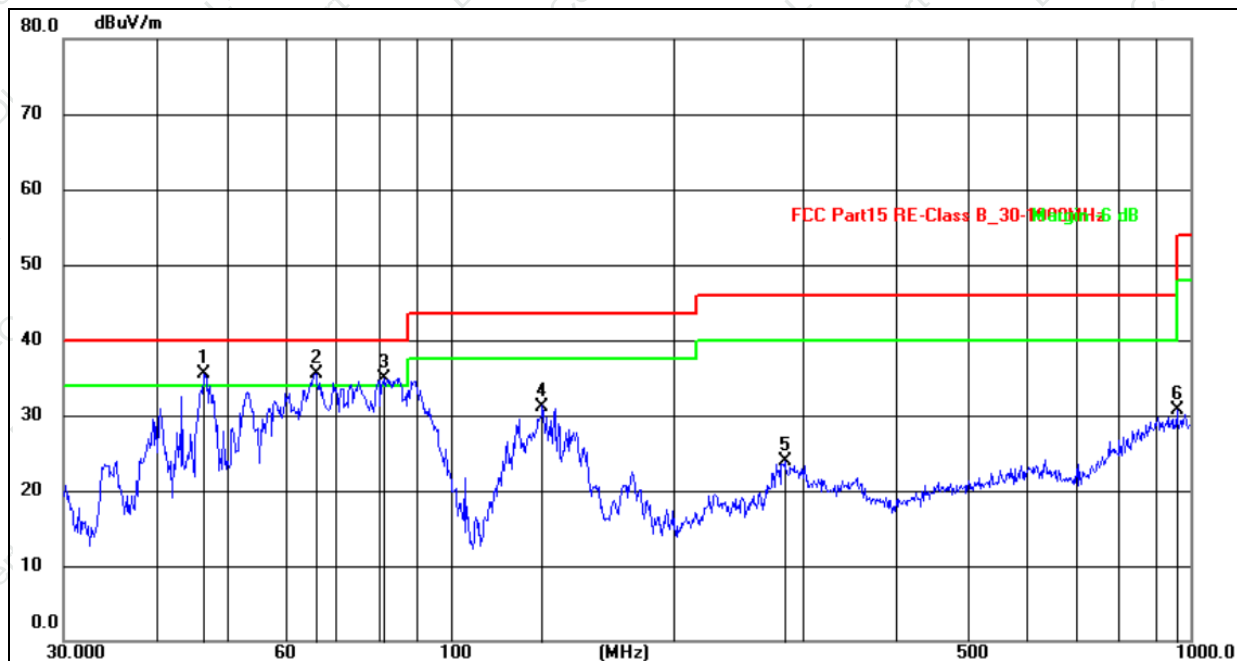
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	63.5356	47.33	-15.07	32.26	40.00	-7.74	QP
2	90.2202	50.75	-20.06	30.69	43.50	-12.81	QP
3	132.6850	49.35	-17.36	31.99	43.50	-11.51	QP
4	267.5452	50.84	-14.71	36.13	46.00	-9.87	QP
5	477.1693	36.64	-12.18	24.46	46.00	-21.54	QP
6	747.4823	31.45	-6.54	24.91	46.00	-21.09	QP

Remarks:

- 1.An initial pre-scan was performed on the peak detector.
- 2.Quasi-Peak measurement were performed at the frequencies with maximized peak emission.
- 3.Final Level = Reading level + Correct Factor.
- 4.Correct Factor = Antenna factor+ Cable loss factor - Amplifier factor.
- 5.Margin= Measurement Level-Limit.
- 6.All test modes were tested, with only the worst Mode 19 recorded.



Temperature:	26°C	Relative Humidity:	54%
Pressure:	101kPa	Polarization:	Vertical
Test Voltage:	DC 9V From Adapter AC 120V/60Hz	Test Mode:	Mode 19



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	46.5030	52.49	-17.04	35.45	40.00	-4.55	QP
2	65.8028	54.31	-18.80	35.51	40.00	-4.49	QP
3	81.2116	56.65	-21.70	34.95	40.00	-5.05	QP
4	133.1510	52.10	-20.90	31.20	43.50	-12.30	QP
5	282.9849	42.26	-18.45	23.81	46.00	-22.19	QP
6	958.7943	30.92	-0.12	30.80	46.00	-15.20	QP

Remarks:

1. An initial pre-scan was performed on the peak detector.
2. Quasi-Peak measurement were performed at the frequencies with maximized peak emission.
3. Final Level = Reading level + Correct Factor.
4. Correct Factor = Antenna factor + Cable loss factor - Amplifier factor.
5. Margin = Measurement Level - Limit.
6. All test modes were tested, with only the worst Mode 19 recorded.



6. 20DB BANDWIDTH TEST

6.1 TEST PROCEDURE

1. Se span = 1.5 ~ 5 times OBW.
2. Set RBW = 1%~5% OBW.
3. Set the video bandwidth (VBW) $\geq 3 \times$ RBW.
4. Detector = peak.
5. Trace mode = max hold.
6. Sweep = auto couple.
7. Allow the trace to stabilize.
8. 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 20 dB relative to the maximum level measured in the fundamental emission.

6.2 LIMIT

N/A

6.3 TEST SETUP



6.4 DEVIATION FROM STANDARD

No deviation.

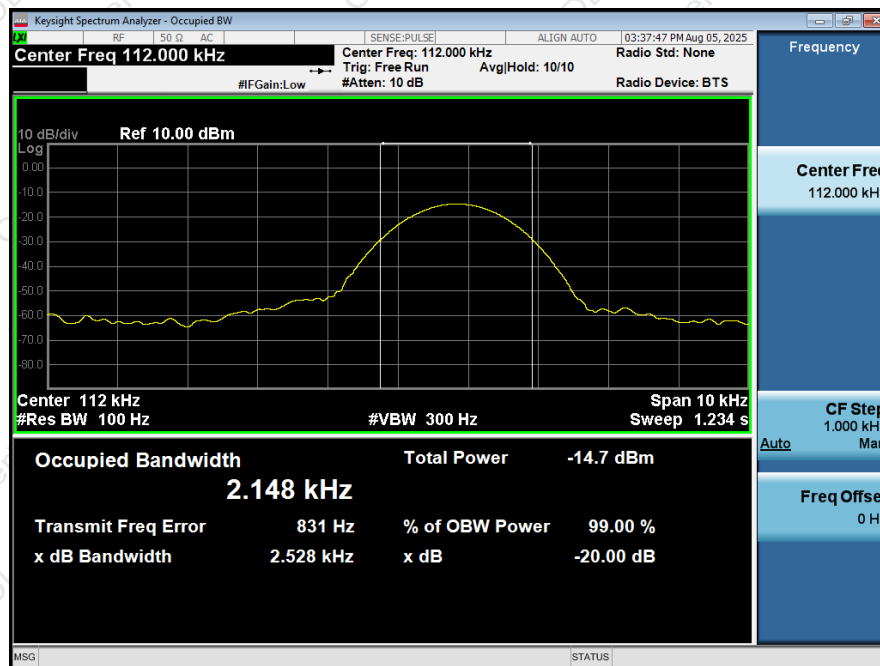


6.5 TEST RESULT

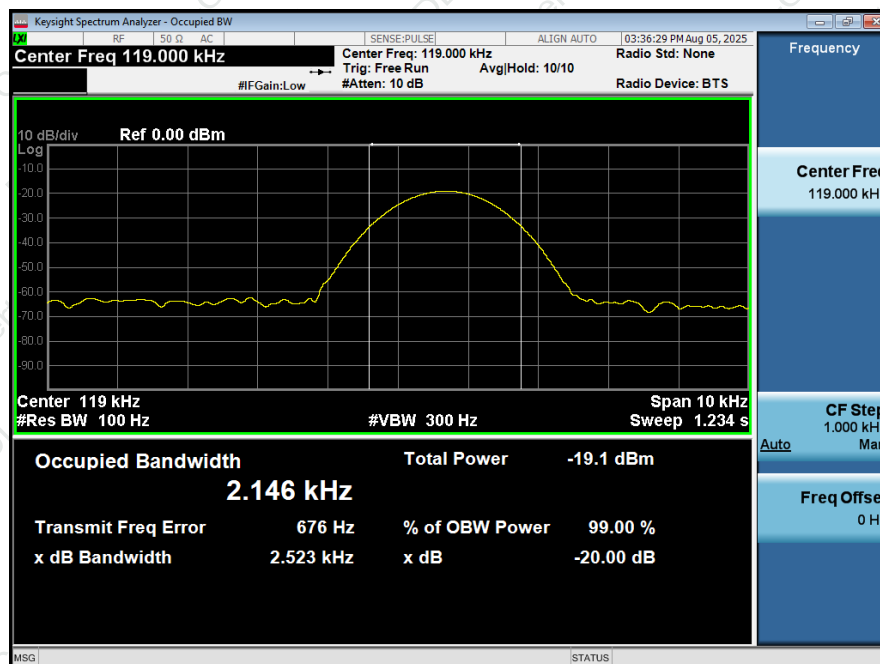
Temperature:	26 °C	Relative Humidity:	54%
Pressure:	101kPa	Test Voltage:	DC 9V From Adapter AC 120V/60Hz

Test Coil	Frequency (kHz)	20dB Bandwidth (kHz)	Result
ANT 1	112.00	2.528	Pass
ANT 2	119.00	2.523	Pass
ANT 3	324.00	2.564	Pass

ANT1:

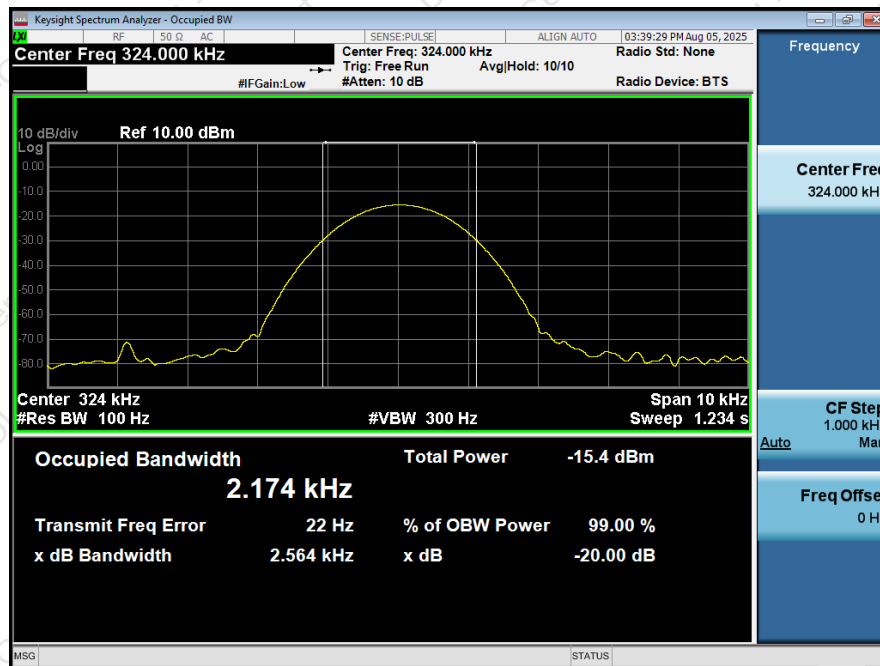


ANT2:





ANT3:





7. ANTENNA REQUIREMENT

Standard requirement:	FCC Part15 C Section 15.203
15.203 requirement: 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, 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.	
EUT Antenna:	
The antenna is Loop Coil antenna, the best case gain of the antennas is 0dBi, reference to the appendix II for details.	



8. TEST SETUP PHOTO

Reference to the appendix I for details.

9. EUT CONSTRUCTIONAL DETAILS

Reference to the appendix II for details.

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