



FCC TEST REPORT

FCC ID:2BCFES5

Applicant: Shenzhen Sister Digital Technology Co.,Ltd
Address: Room 201, Building 2, No. 85, Xialingpai Road, Dalang Community, Dalang Subdistrict, Longhua District, Shenzhen, Guangdong, China
Manufacturer: Shenzhen Sister Digital Technology Co.,Ltd
Address: Room 201, Building 2, No. 85, Xialingpai Road, Dalang Community, Dalang Subdistrict, Longhua District, Shenzhen, Guangdong, China
EUT: 5-in-1 Wireless Charger
Trade Mark: N/A
Model Number: S5
Date of Receipt: Sep. 13, 2025
Test Date: Sep. 13, 2025 to Sep. 20, 2025
Date of Report: Sep. 20, 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
Test Result: Pass
Report Number: DLE-250919020R

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-250919020R	Rev.01	Initial issue of report	Sep. 20, 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:	5-in-1 Wireless Charger
Model No.:	S5
Serial No.:	N/A
Model Difference:	N/A
Hardware Version:	V 1.0
Software Version:	V 1.1
Operation Frequency:	ANT 1&2: 111kHz ~ 205kHz ANT 3: 300kHz ~ 360kHz
Modulation Type:	ASK
Antenna Type:	Loop Coil Antenna
Antenna Gain:	0dBi
Power Supply:	Input: 9V---3A Output: 5W/7.5W/10W/15W(Phone) Output: 3W(Earphone) Output: 2W(for iWatch) Output: USB 5W, Type-C 5W
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 and charge the 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 + Earphone (Battery Status: <1%)
Mode 5		AC/DC Adapter (9V/3A) + EUT + Earphone (Battery Status: 50%)
Mode 6		AC/DC Adapter (9V/3A) + EUT + Earphone (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 + Earphone (Battery Status: <1%)
Mode 11		AC/DC Adapter (9V/3A) + EUT + Phone + Earphone (Battery Status: 50%)
Mode 12		AC/DC Adapter (9V/3A) + EUT + Phone + Earphone (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 + Earphone + Watch (Battery Status: <1%)
Mode 17		AC/DC Adapter (9V/3A) + EUT + Earphone + Watch (Battery Status: 50%)
Mode 18		AC/DC Adapter (9V/3A) + EUT + Earphone + Watch (Battery Status: >98%)
Mode 19	ANT 1 + ANT 2 + ANT 3	AC/DC Adapter (9V/3A) + EUT + Phone + Earphone + Watch (Battery Status: <1%)
Mode 20		AC/DC Adapter (9V/3A) + EUT + Phone + Earphone + Watch (Battery Status: 50%)
Mode 21		AC/DC Adapter (9V/3A) + EUT + Phone + Earphone + Watch (Battery Status: >98%)



b. EUT mode of after folding:

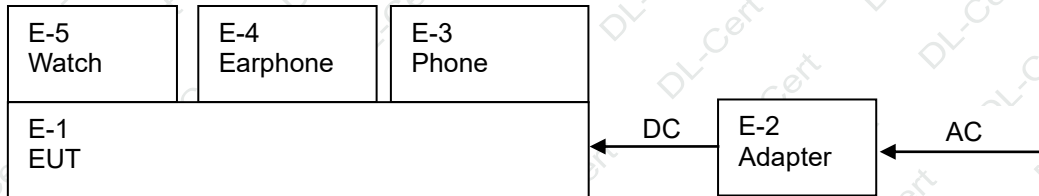
Test Modes:	Test Coil:	Description:
Mode 1a Mode 2a Mode 3a	ANT 1	AC/DC Adapter (9V/3A) + EUT + Phone (Battery Status: <1%) AC/DC Adapter (9V/3A) + EUT + Phone (Battery Status: 50%) AC/DC Adapter (9V/3A) + EUT + Phone (Battery Status: >98%)
Mode 4a Mode 5a Mode 6a	ANT 3	AC/DC Adapter (9V/3A) + EUT +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



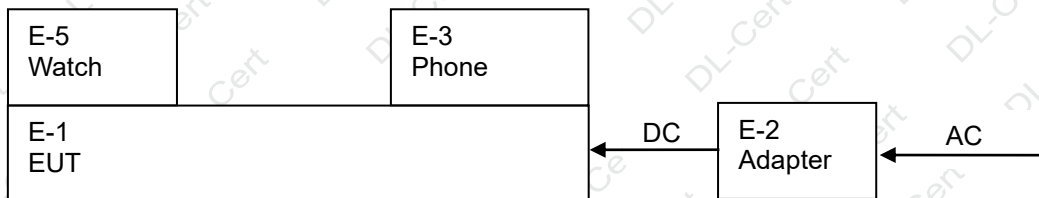
3.3 BLOCK DIAGRAM OF EUT CONFIGURATION

Conducted Emission

a. EUT mode of operation before folding:

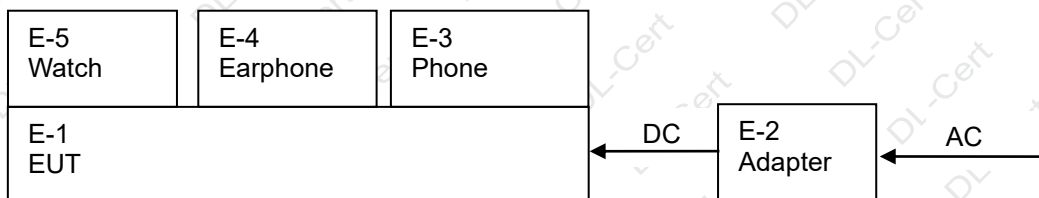


b. EUT mode of after folding:

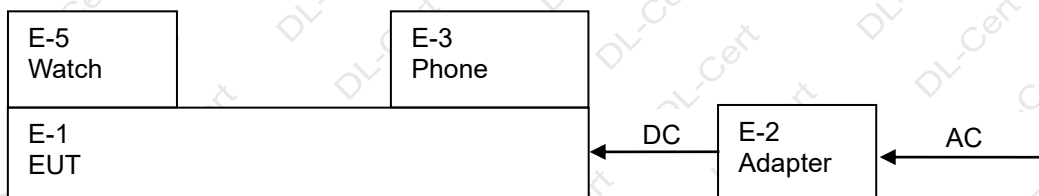


Radiated Emission

a. EUT mode of operation before folding:



b. EUT mode of after 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	5-in-1 Wireless Charger	N/A	S5	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	Earphone	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 C63.10:2013
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

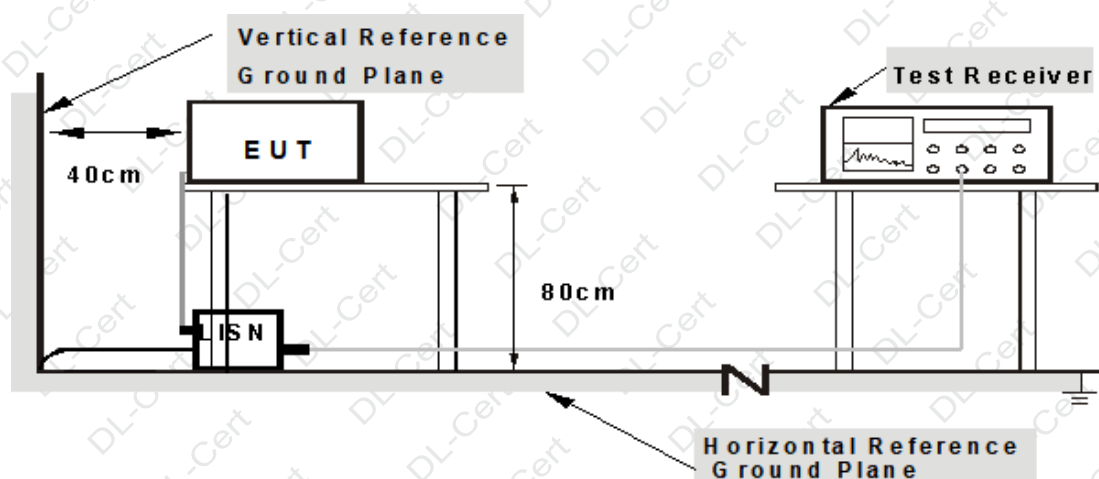
- The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- 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

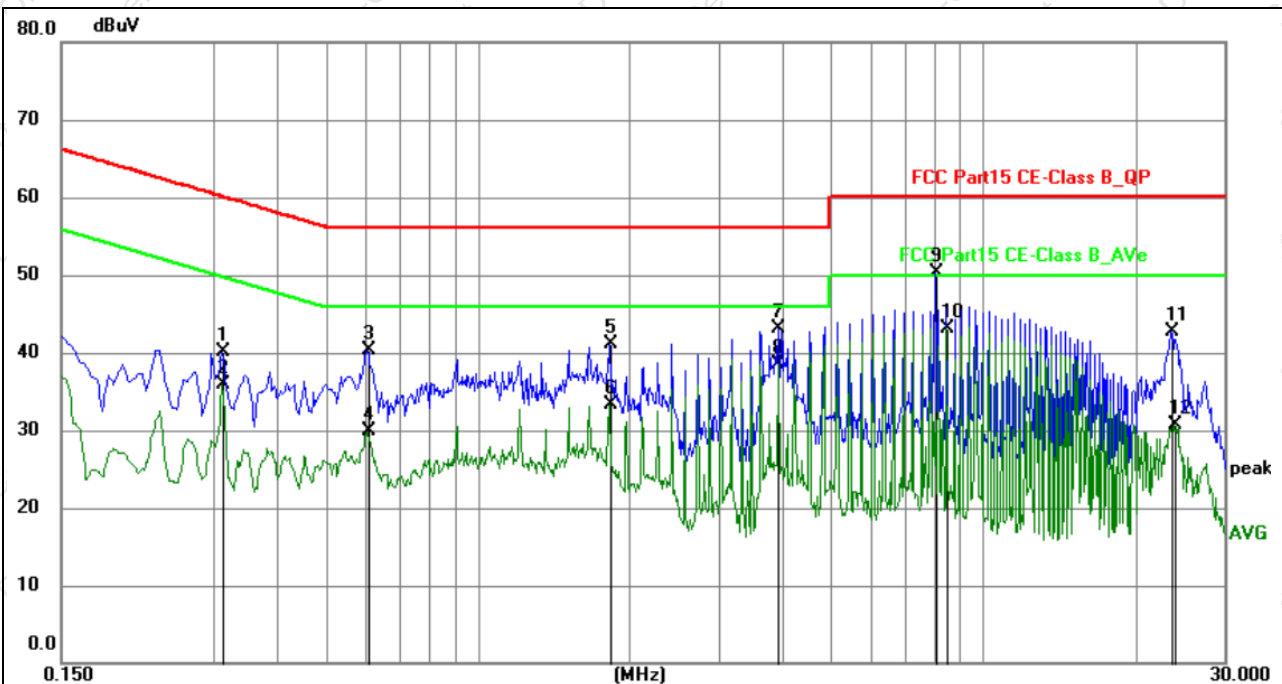
4.1.5 EUT OPERATING CONDITIONS

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



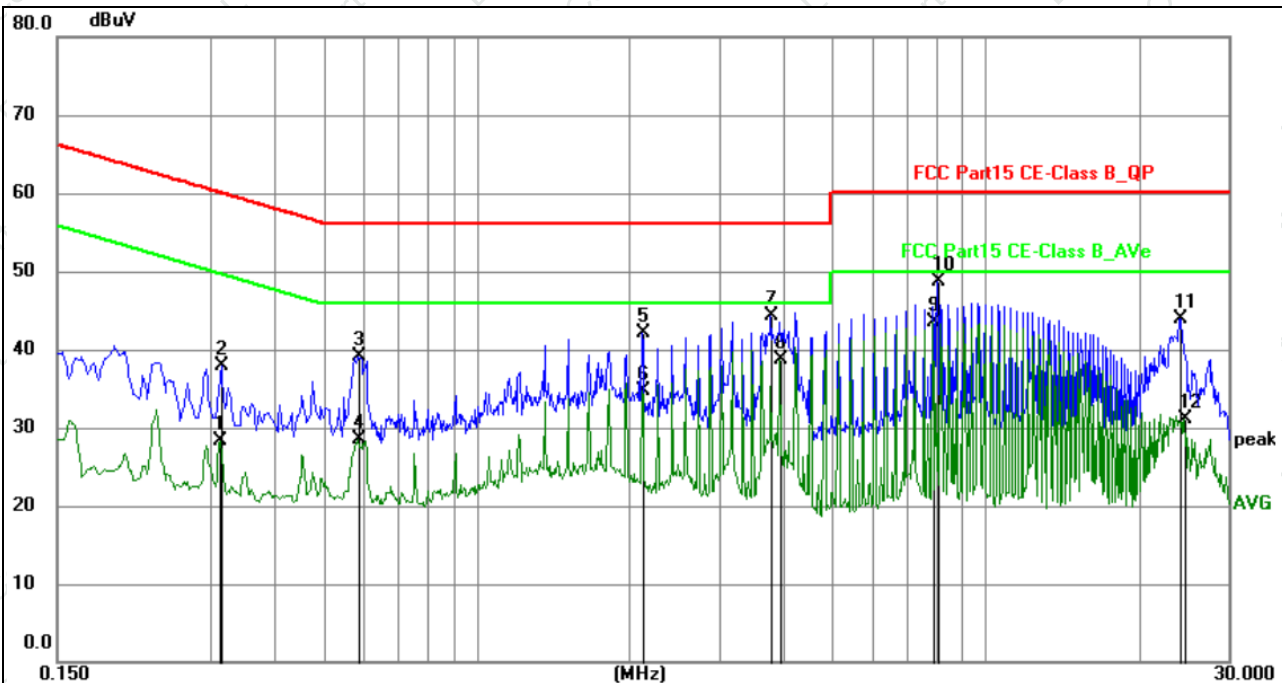
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.3119	19.71	20.34	40.05	59.92	-19.87	QP	P	
2	0.3119	15.59	20.34	35.93	49.92	-13.99	AVG	P	
3	0.6044	20.10	20.29	40.39	56.00	-15.61	QP	P	
4	0.6044	9.61	20.29	29.90	46.00	-16.10	AVG	P	
5	1.8193	20.83	20.31	41.14	56.00	-14.86	QP	P	
6	1.8193	12.90	20.31	33.21	46.00	-12.79	AVG	P	
7	3.9390	22.78	20.34	43.12	56.00	-12.88	QP	P	
8	3.9390	18.24	20.34	38.58	46.00	-7.42	AVG	P	
9	8.0429	29.87	20.41	50.28	60.00	-9.72	QP	P	
10	8.4885	22.76	20.42	43.18	50.00	-6.82	AVG	P	
11	23.5320	22.13	20.60	42.73	60.00	-17.27	QP	P	
12	23.9460	10.09	20.61	30.70	50.00	-19.30	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 = Liss 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	0.3131	8.06	20.34	28.40	49.89	-21.49	AVG	P	
2	0.3165	17.55	20.34	37.89	59.80	-21.91	QP	P	
3	0.5864	18.90	20.30	39.20	56.00	-16.80	QP	P	
4	0.5864	8.17	20.30	28.47	46.00	-17.53	AVG	P	
5	2.1208	21.70	20.31	42.01	56.00	-13.99	QP	P	
6	2.1208	14.43	20.31	34.74	46.00	-11.26	AVG	P	
7	3.7905	23.98	20.33	44.31	56.00	-11.69	QP	P	
8	3.9434	18.34	20.33	38.67	46.00	-7.33	AVG	P	
9	7.8855	22.99	20.42	43.41	50.00	-6.59	AVG	P	
10	8.0429	28.31	20.42	48.73	60.00	-11.27	QP	P	
11	24.0809	23.31	20.64	43.95	60.00	-16.05	QP	P	
12	24.5670	10.45	20.65	31.10	50.00	-18.90	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.



5. RADIATED EMISSION MEASUREMENT

Test Requirement:	FCC Part15 C Section 15.209				
Test Method:	ANSI C63.10:2013				
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	$2400/F(\text{kHz})$	300	Quasi-peak Value
0.490-1.705	$24000/F(\text{kHz})$	30	Quasi-peak Value
1.705-30	30	30	Quasi-peak Value

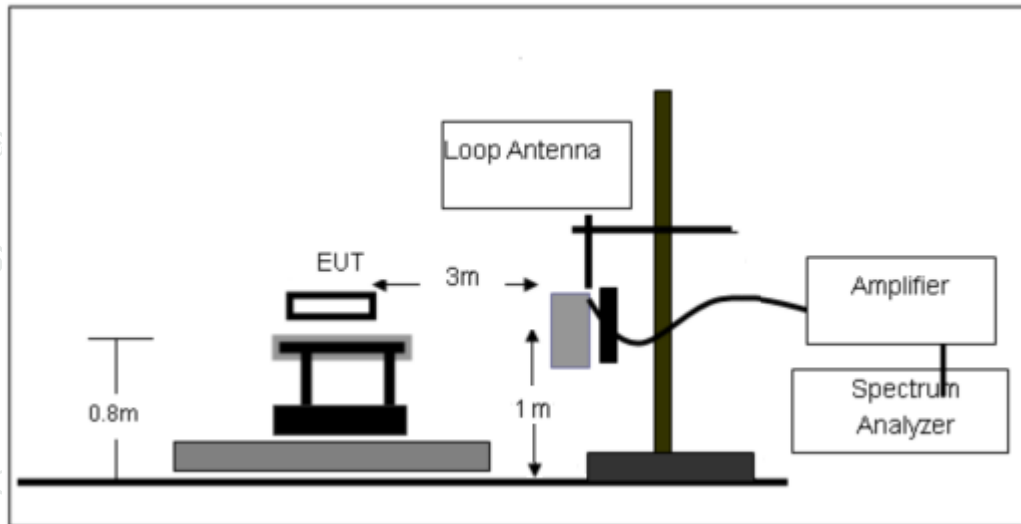
Limits for frequency Above 30MHz

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

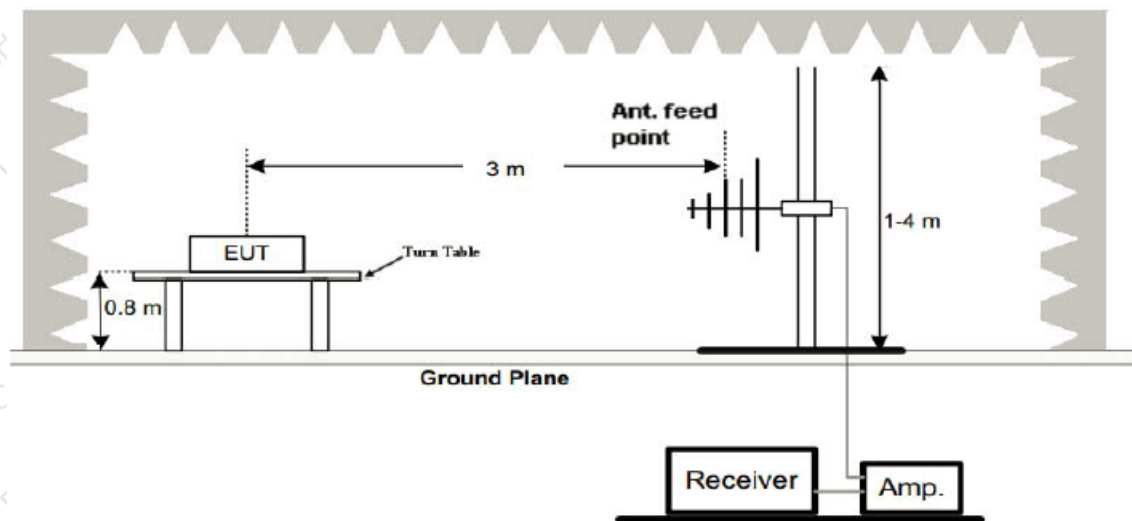


5.2 ANECHOIC CHAMBER TEST SETUP DIAGRAM

(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 C63.10-2013. 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:

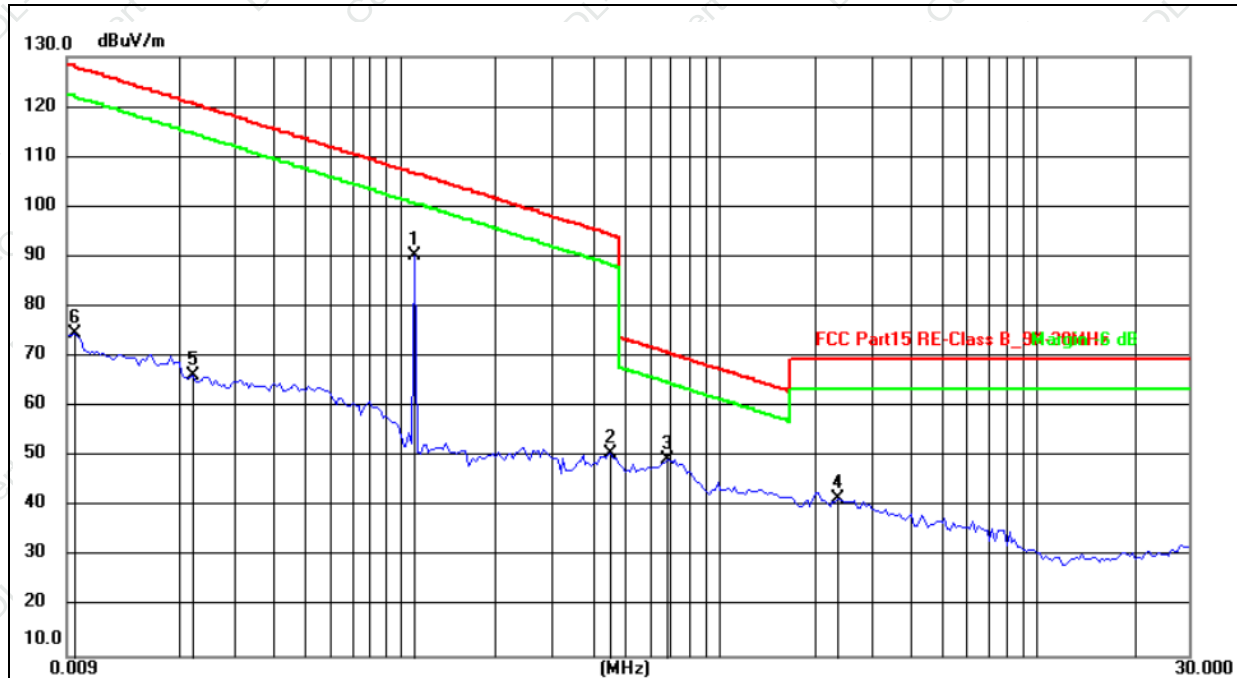
Note: Limit dBuV/m @3m = Limit dBuV/m @300m + 80

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



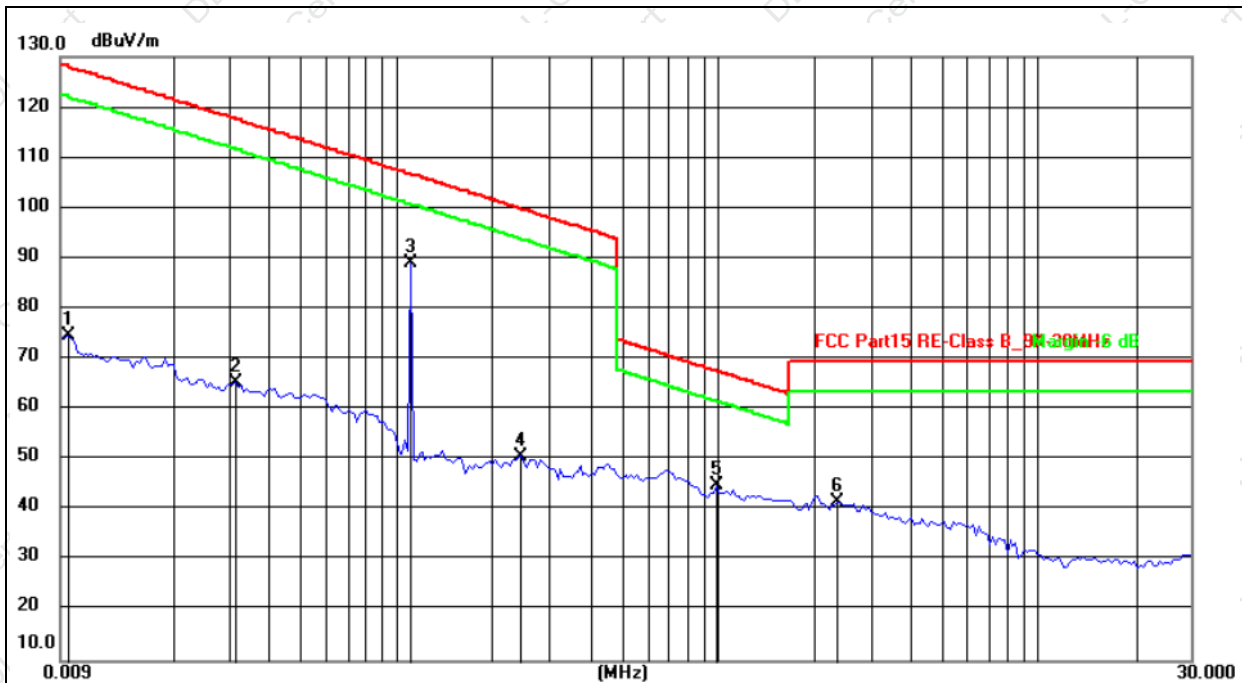
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	0.1110	70.37	19.82	90.19	106.78	-16.59	peak
2	0.4600	30.42	20.19	50.61	94.35	-43.74	peak
3	0.6902	29.02	20.37	49.39	70.82	-21.43	peak
4	2.3780	21.77	19.74	41.51	69.54	-28.03	peak
5	0.0223	45.72	20.40	66.12	120.64	-54.52	peak
6	0.0094	74.65	0.05	74.70	128.14	-53.44	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°C	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	0.0094	74.65	0.05	74.70	128.14	-53.44	peak
2	0.0316	45.07	20.18	65.25	117.61	-52.36	peak
3	0.1110	69.37	19.82	89.19	106.78	-17.59	peak
4	0.2452	30.70	20.10	50.80	99.81	-49.01	peak
5	0.9939	24.94	19.96	44.90	67.66	-22.76	peak
6	2.3780	21.77	19.74	41.51	69.54	-28.03	peak

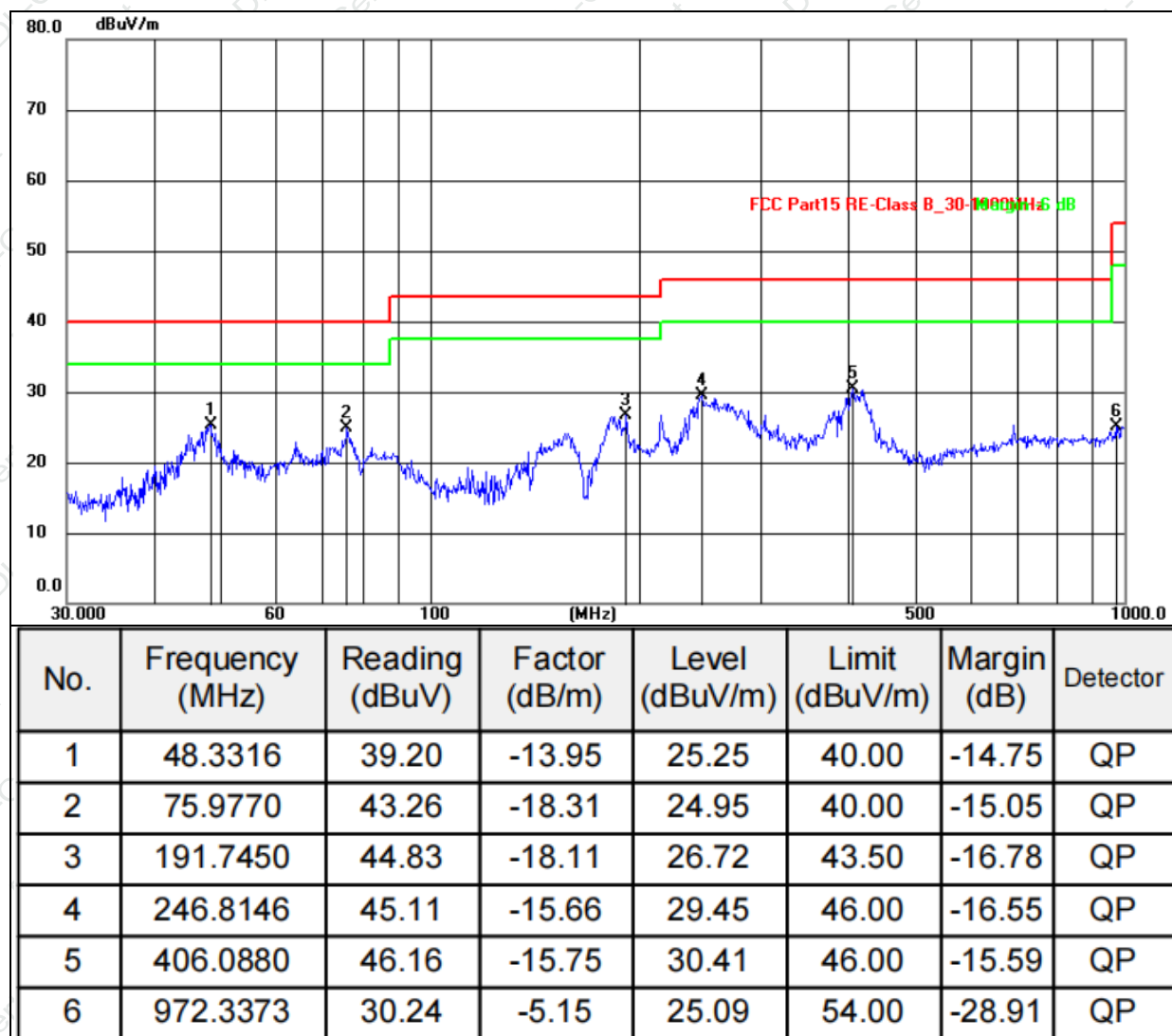
Remarks:

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

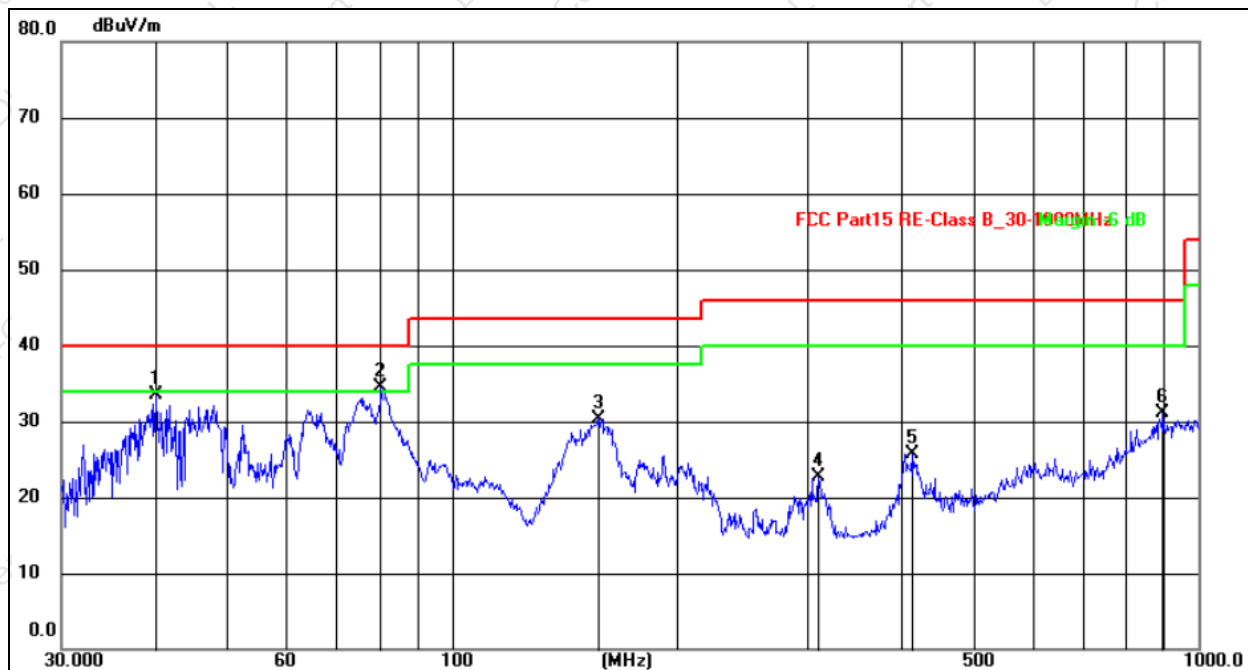


Remarks:

- 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	40.1347	50.19	-16.77	33.42	40.00	-6.58	QP
2	80.3617	56.28	-21.74	34.54	40.00	-5.46	QP
3	157.0072	50.48	-20.08	30.40	43.50	-13.10	QP
4	309.9977	40.33	-17.56	22.77	46.00	-23.23	QP
5	413.2706	39.76	-14.05	25.71	46.00	-20.29	QP
6	896.9963	31.59	-0.52	31.07	46.00	-14.93	QP

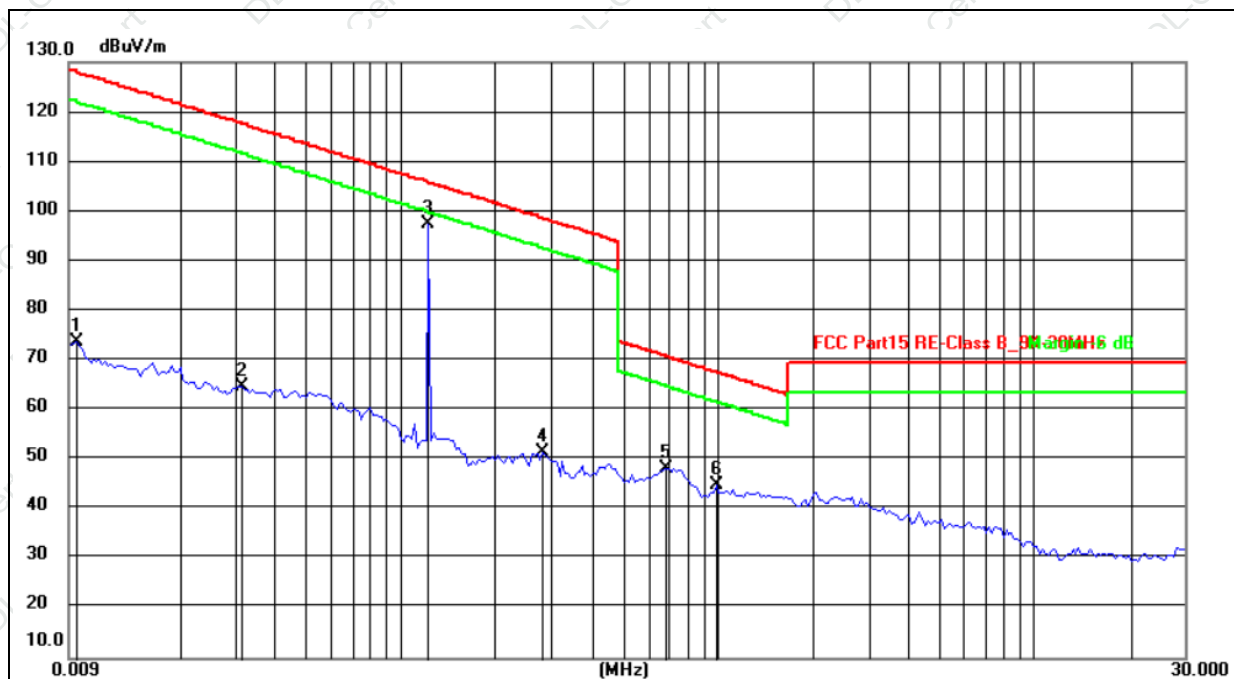
Remarks:

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



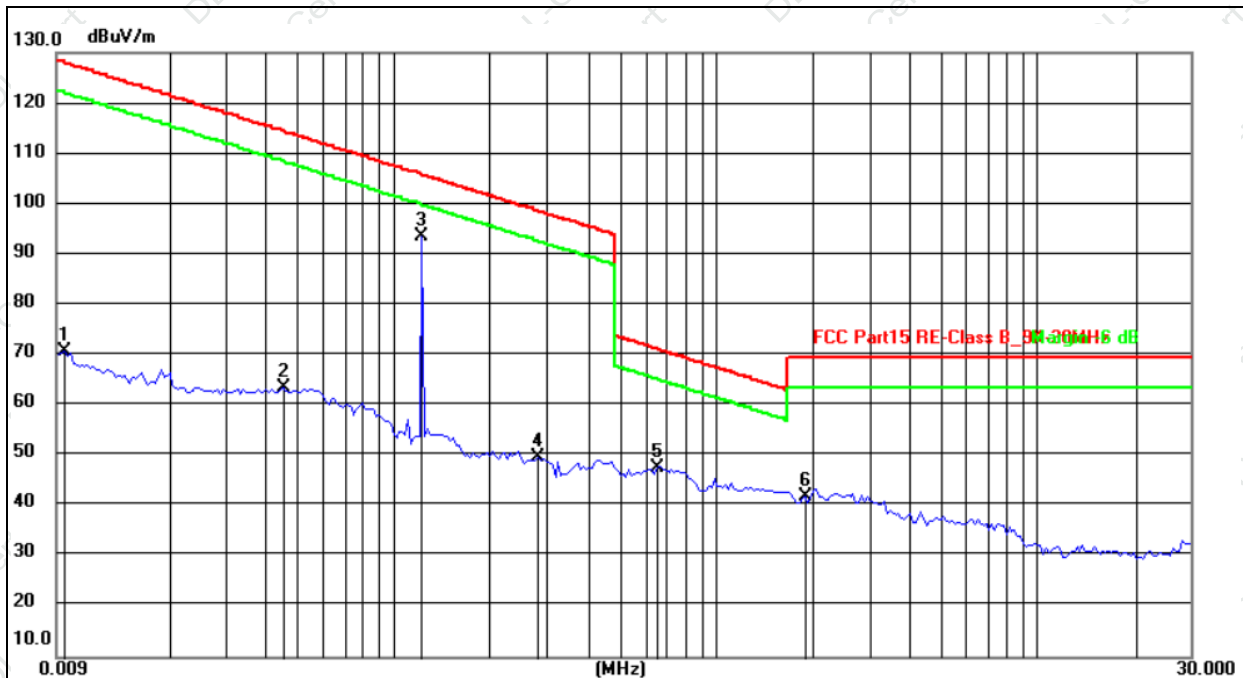
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	0.0094	73.65	0.05	73.70	128.14	-54.44	peak
2	0.0316	44.57	20.18	64.75	117.61	-52.86	peak
3	0.1230	77.53	19.90	97.43	105.81	-8.38	peak
4	0.2827	31.53	20.12	51.65	98.58	-46.93	peak
5	0.6902	28.02	20.37	48.39	70.82	-22.43	peak
6	0.9939	24.94	19.96	44.90	67.66	-22.76	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°C	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	0.0094	70.65	0.05	70.70	128.14	-57.44	peak
2	0.0454	43.55	19.86	63.41	114.46	-51.05	peak
3	0.1230	73.53	19.90	93.43	105.81	-12.38	peak
4	0.2827	29.53	20.12	49.65	98.58	-48.93	peak
5	0.6622	27.25	20.35	47.60	71.18	-23.58	peak
6	1.9025	22.00	19.82	41.82	69.54	-27.72	peak

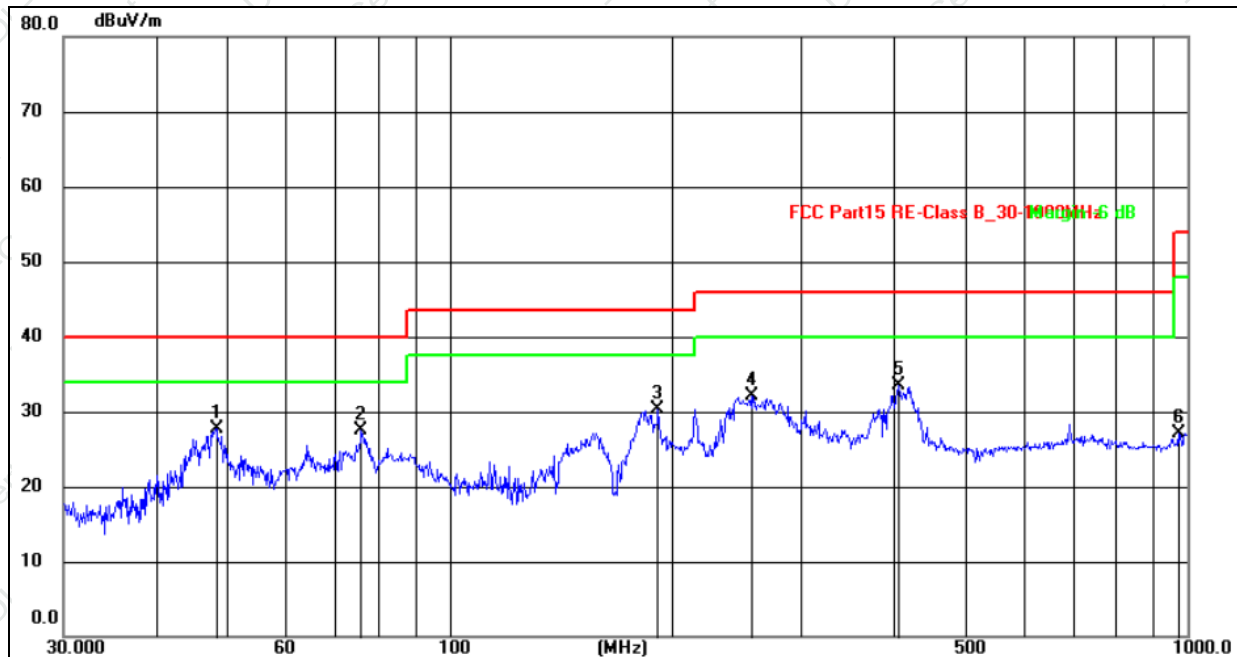
Remarks:

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



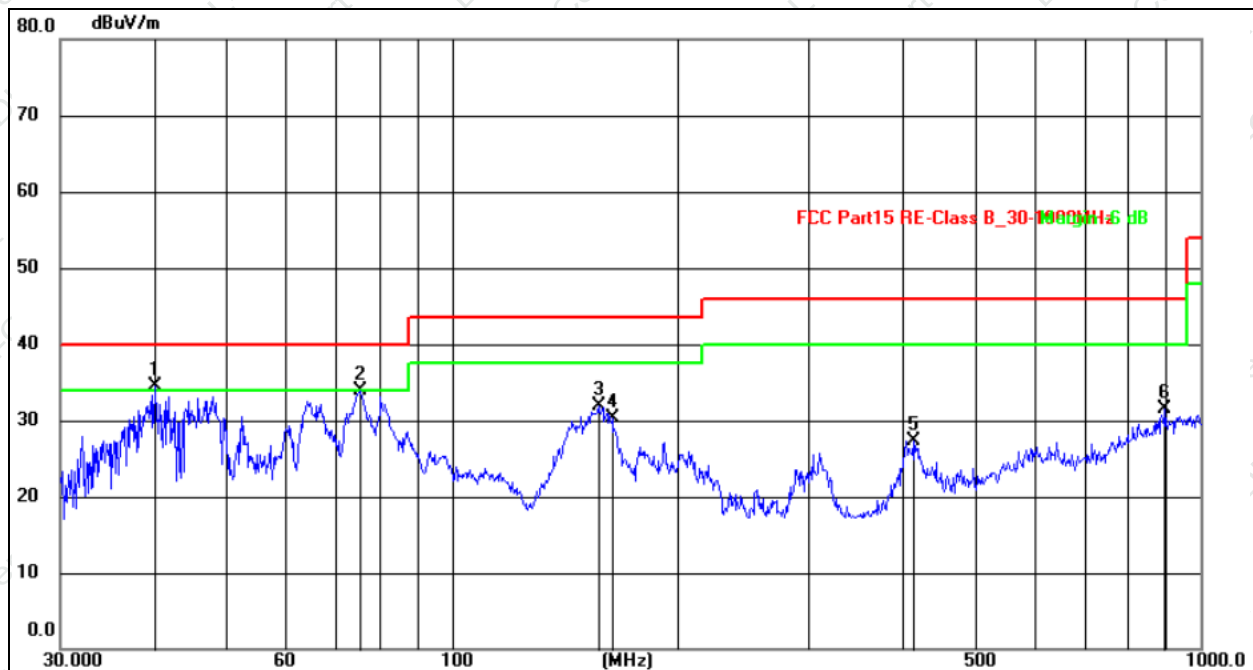
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	48.3316	41.70	-13.95	27.75	40.00	-12.25	QP
2	75.9770	45.76	-18.31	27.45	40.00	-12.55	QP
3	191.7450	48.33	-18.11	30.22	43.50	-13.28	QP
4	256.5210	47.47	-15.31	32.16	46.00	-13.84	QP
5	406.0880	49.16	-15.75	33.41	46.00	-12.59	QP
6	972.3373	32.24	-5.15	27.09	54.00	-26.91	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	40.1347	51.19	-16.77	34.42	40.00	-5.58	QP
2	75.4462	54.56	-20.61	33.95	40.00	-6.05	QP
3	157.0072	51.98	-20.08	31.90	43.50	-11.60	QP
4	163.7547	50.23	-19.89	30.34	43.50	-13.16	QP
5	413.2706	41.26	-14.05	27.21	46.00	-18.79	QP
6	896.9963	32.09	-0.52	31.57	46.00	-14.43	QP

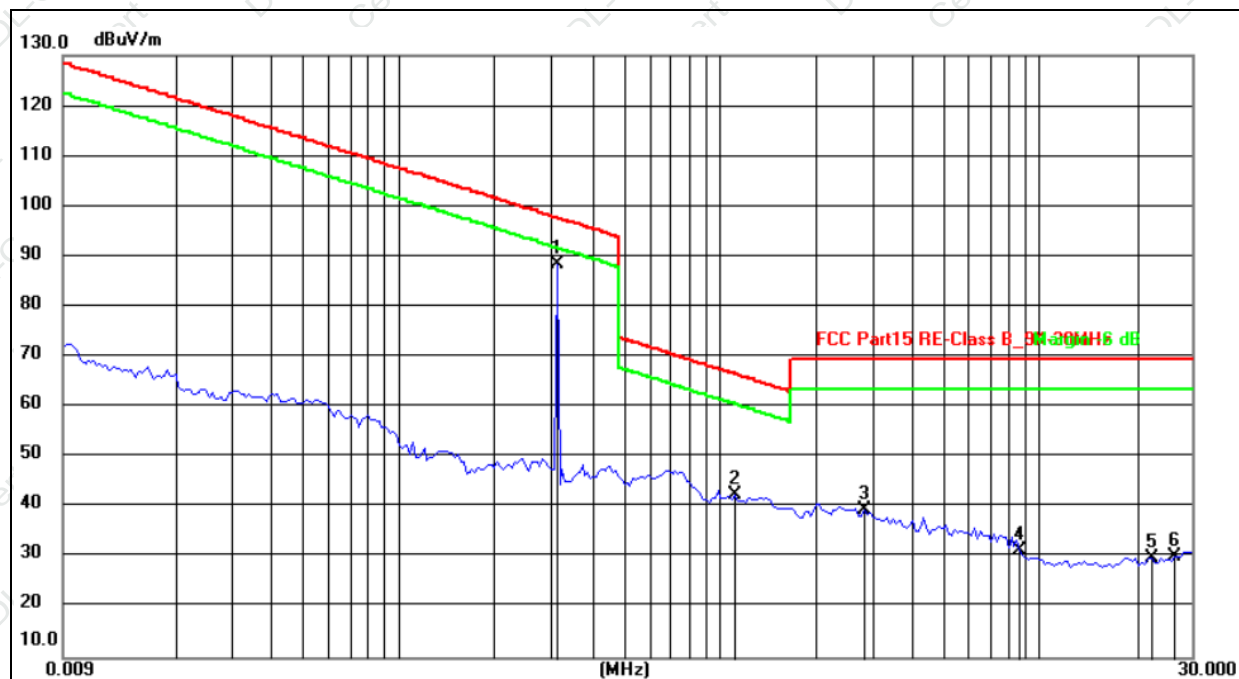
Remarks:

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



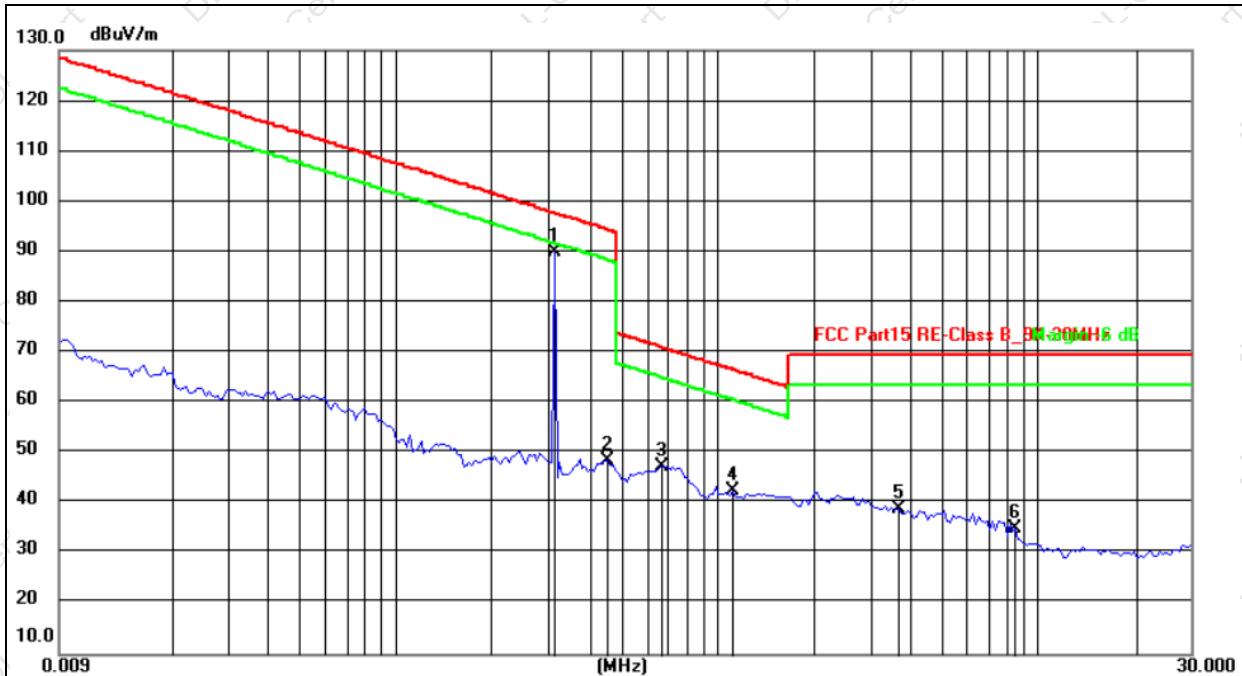
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	0.3120	68.24	20.13	88.37	97.72	-9.35	peak
2	1.1229	22.67	19.94	42.61	66.60	-23.99	peak
3	2.8542	20.02	19.67	39.69	69.54	-29.85	peak
4	8.7071	12.46	19.12	31.58	69.54	-37.96	peak
5	22.5849	11.68	18.40	30.08	69.54	-39.46	peak
6	26.5625	11.97	18.37	30.34	69.54	-39.20	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	0.3120	69.74	20.13	89.87	97.72	-7.85	peak
2	0.4600	28.42	20.19	48.61	94.35	-45.74	peak
3	0.6763	27.10	20.36	47.46	71.00	-23.54	peak
4	1.1229	22.67	19.94	42.61	66.60	-23.99	peak
5	3.7151	19.49	19.59	39.08	69.54	-30.46	peak
6	8.5324	15.81	19.14	34.95	69.54	-34.59	peak

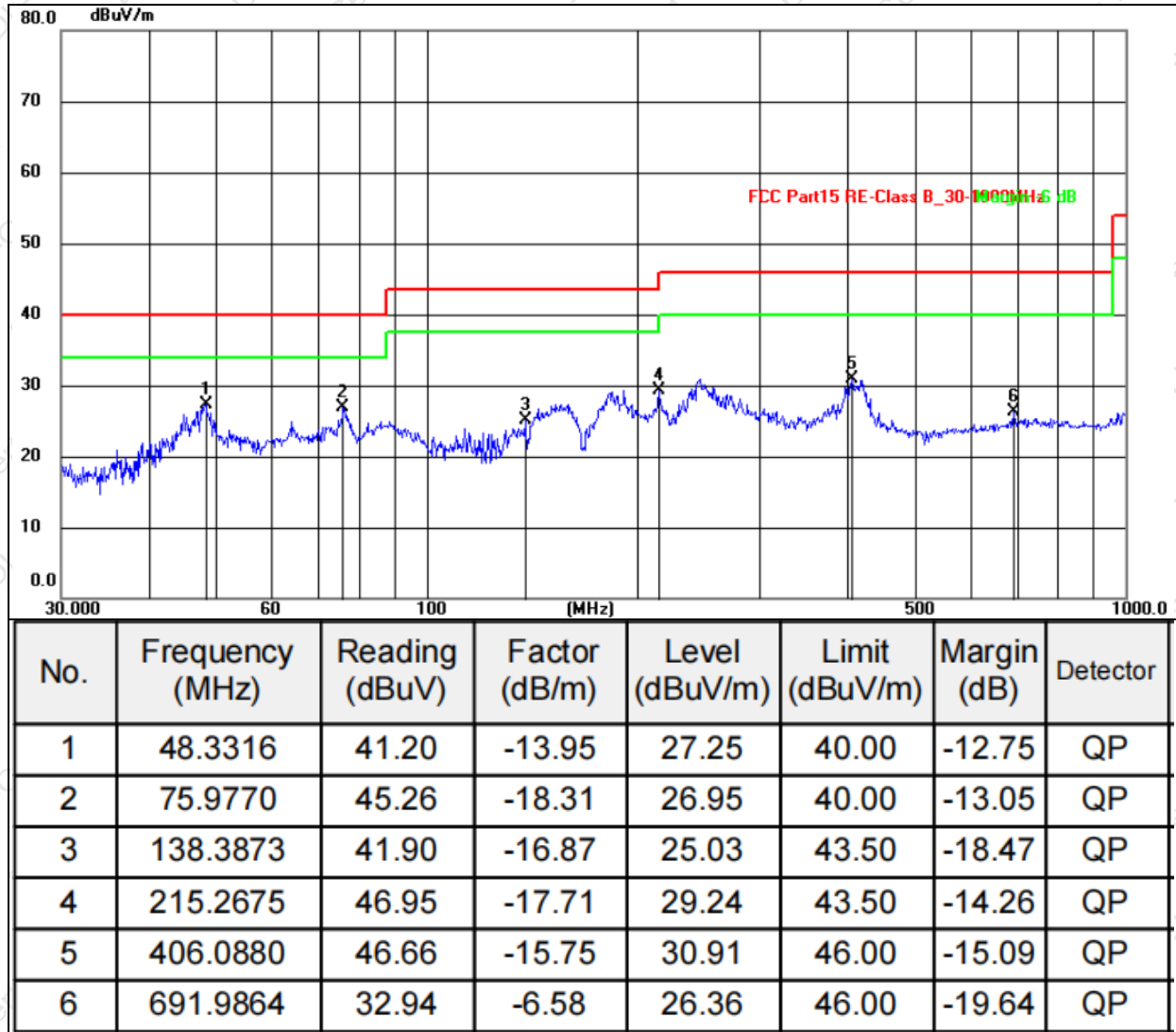
Remarks:

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 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

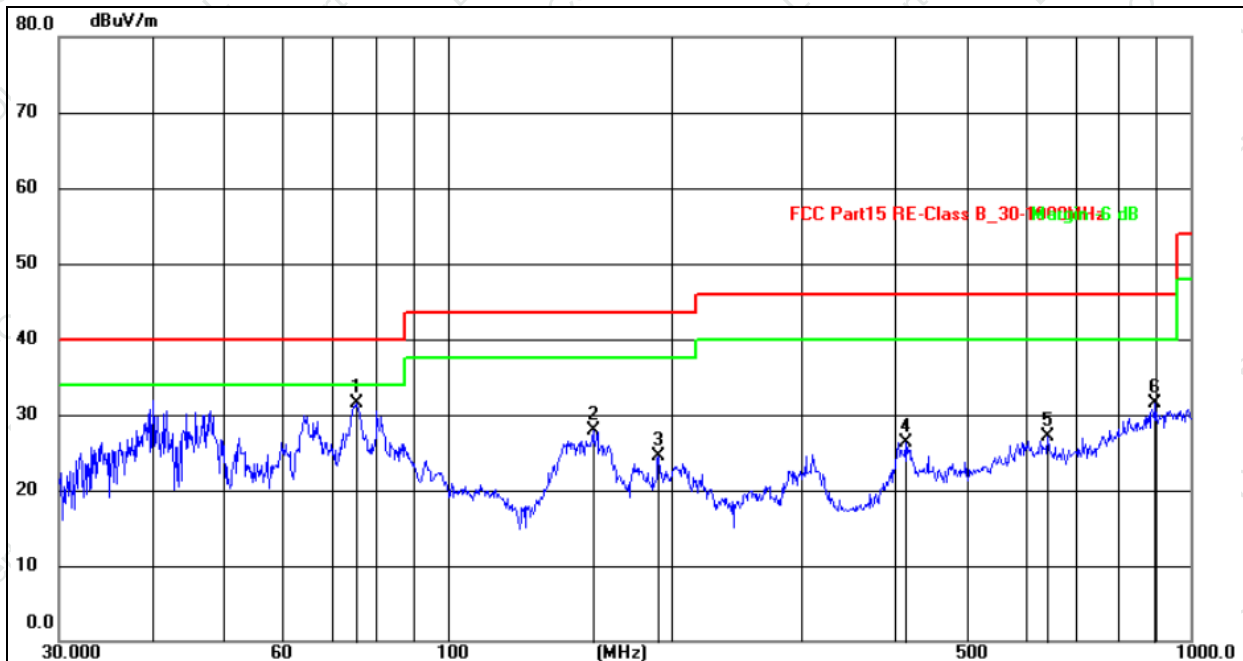


Remarks:

- 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	75.4462	52.06	-20.61	31.45	40.00	-8.55	QP
2	157.0072	47.98	-20.08	27.90	43.50	-15.60	QP
3	192.4182	44.59	-20.09	24.50	43.50	-19.00	QP
4	413.2706	40.26	-14.05	26.21	46.00	-19.79	QP
5	642.8612	34.52	-7.34	27.18	46.00	-18.82	QP
6	896.9963	32.09	-0.52	31.57	46.00	-14.43	QP

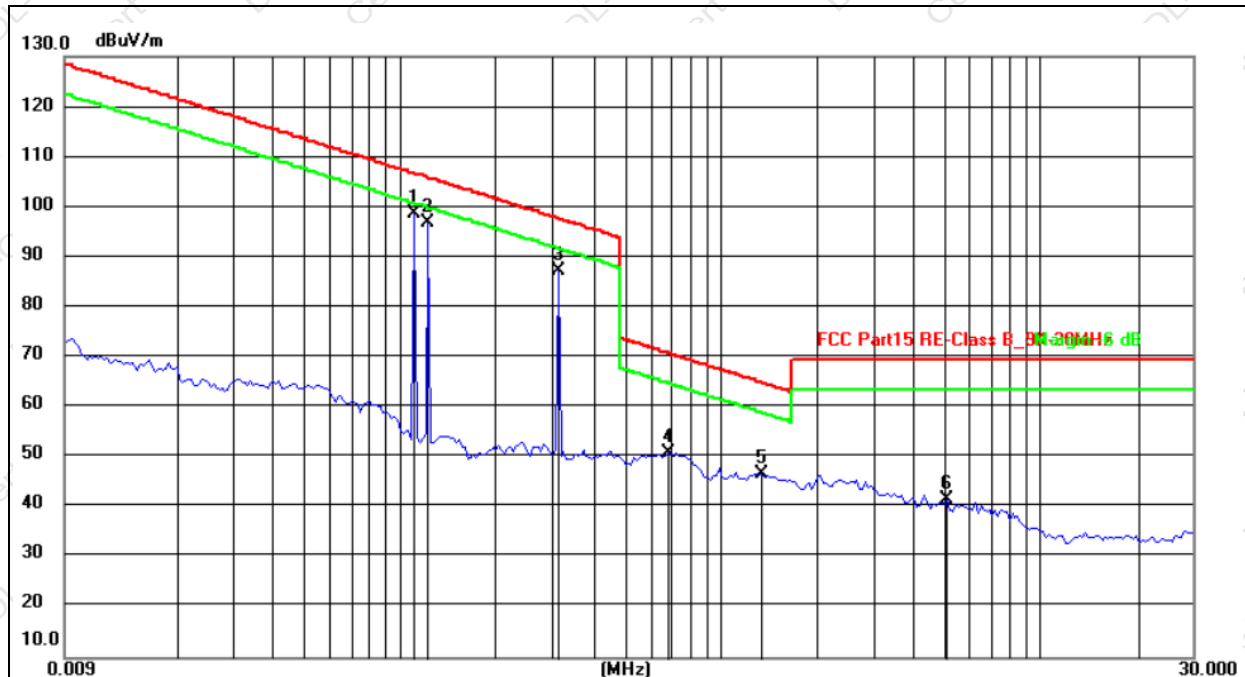
Remarks:

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



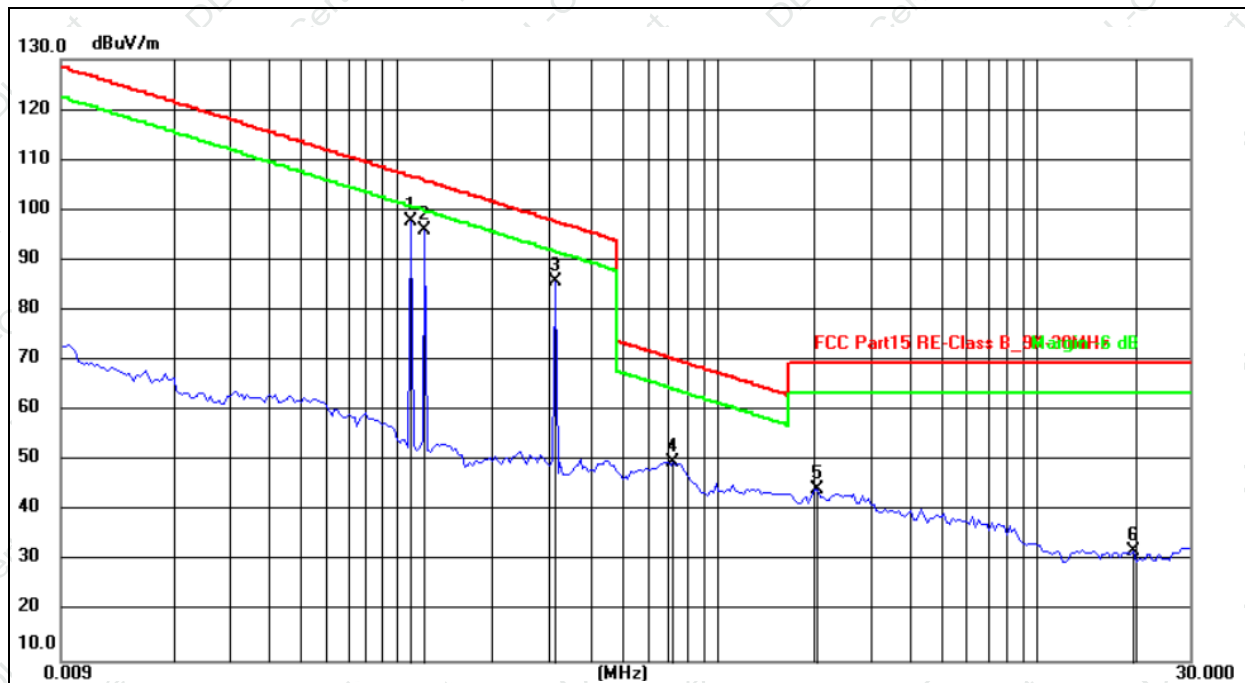
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	0.1110	77.87	19.82	97.69	106.78	-9.09	peak
2	0.1230	76.03	19.90	95.93	105.81	-9.88	peak
3	0.3120	65.74	20.13	85.87	97.72	-11.85	peak
4	0.7335	29.45	20.41	49.86	70.30	-20.44	peak
5	2.0632	24.60	19.79	44.39	69.54	-25.15	peak
6	19.9969	13.49	18.42	31.91	69.54	-37.63	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	0.1110	78.87	19.82	98.69	106.78	-8.09	peak
2	0.1230	77.03	19.90	96.93	105.81	-8.88	peak
3	0.3120	67.24	20.13	87.37	97.72	-10.35	peak
4	0.6902	30.52	20.37	50.89	70.82	-19.93	peak
5	1.3467	26.92	19.90	46.82	65.02	-18.20	peak
6	5.1391	22.18	19.45	41.63	69.54	-27.91	peak

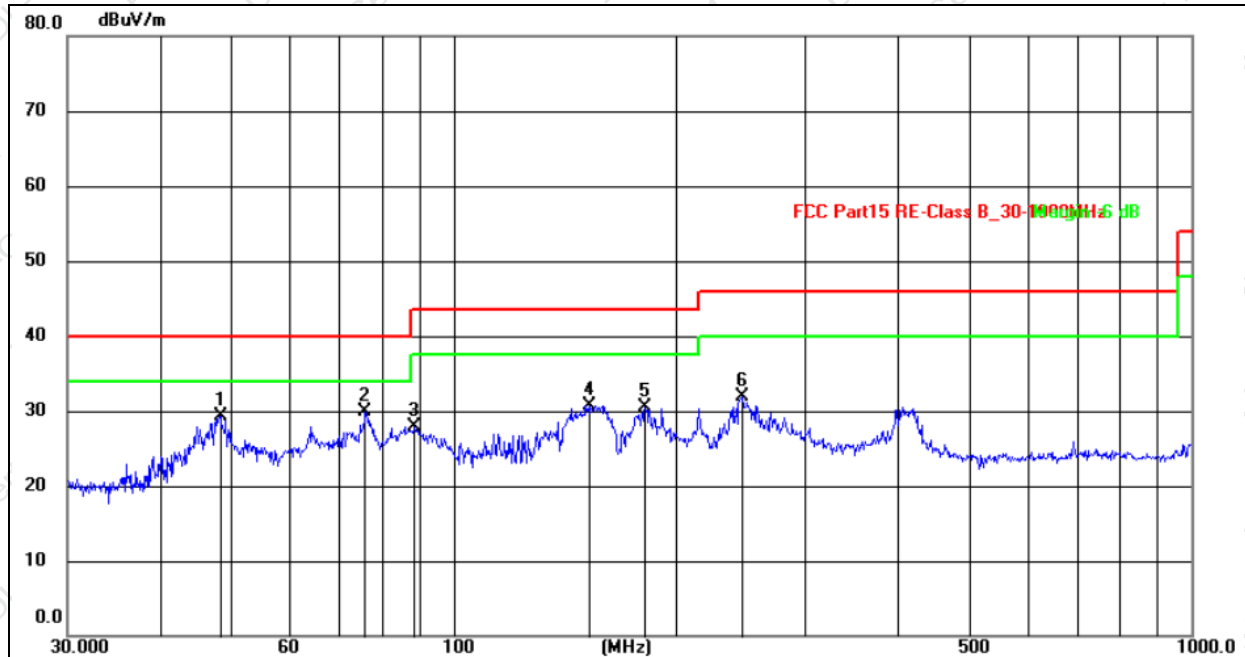
Remarks:

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



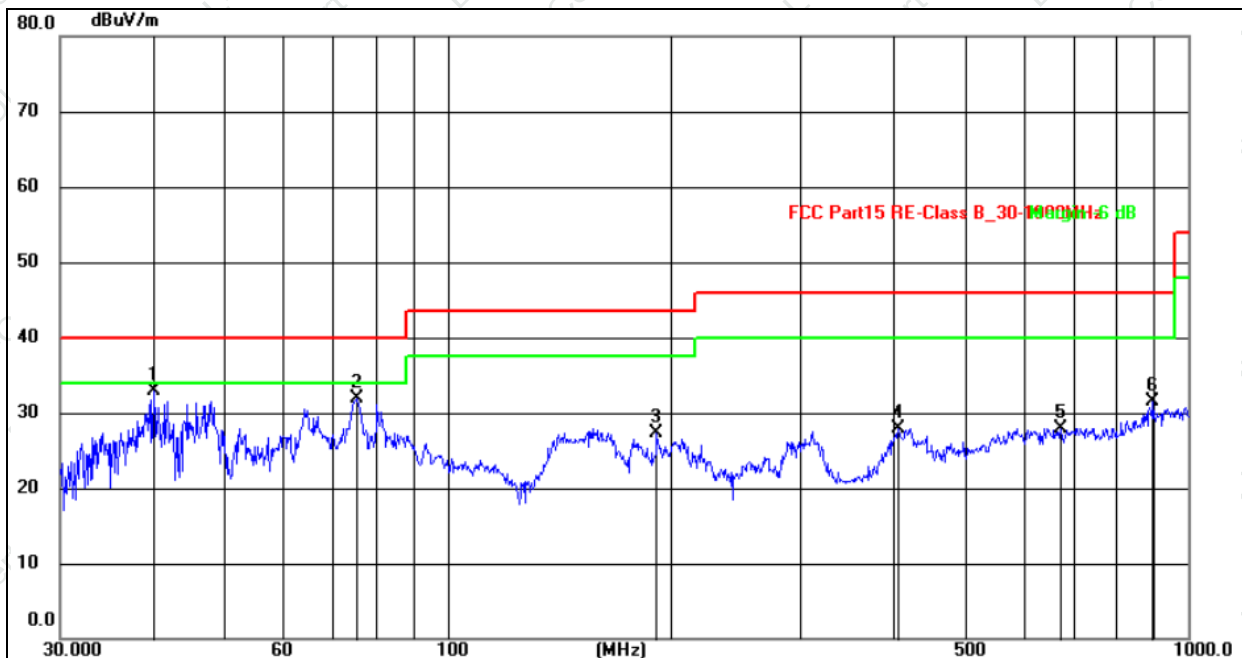
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	48.3316	43.20	-13.95	29.25	40.00	-10.75	QP
2	75.9770	48.26	-18.31	29.95	40.00	-10.05	QP
3	88.6524	47.81	-19.98	27.83	43.50	-15.67	QP
4	153.2000	47.02	-16.23	30.79	43.50	-12.71	QP
5	181.9200	48.21	-17.67	30.54	43.50	-12.96	QP
6	246.8146	47.61	-15.66	31.95	46.00	-14.05	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	40.1347	49.69	-16.77	32.92	40.00	-7.08	QP
2	75.4462	52.56	-20.61	31.95	40.00	-8.05	QP
3	191.7450	47.35	-20.05	27.30	43.50	-16.20	QP
4	406.0880	42.25	-14.30	27.95	46.00	-18.05	QP
5	672.8442	35.31	-7.37	27.94	46.00	-18.06	QP
6	896.9963	32.09	-0.52	31.57	46.00	-14.43	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.

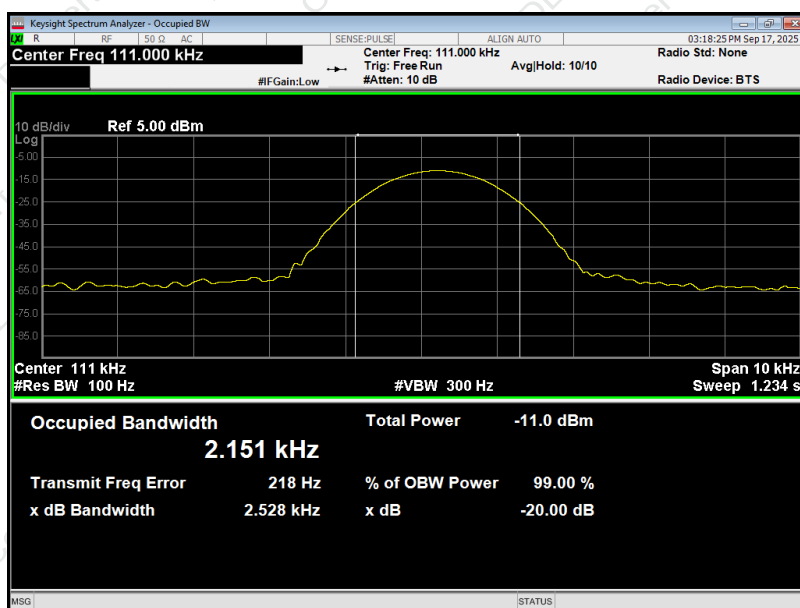


6.5 TEST RESULT

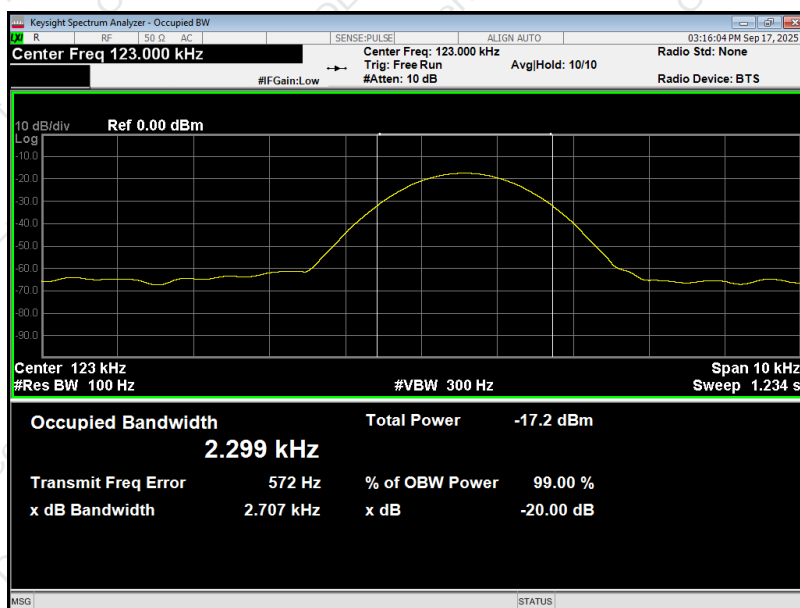
Temperature:	26 °C	Relative Humidity:	54%
Pressure:	101kPa	Test Voltage:	DC 9V From Adapter AC 120V/60Hz

Test Coil	Frequency (kHz)	20dB Bandwidth (kHz)	Result
ANT 1	111.00	2.528	Pass
ANT 2	123.00	2.523	Pass
ANT 3	312.00	5.438	Pass

ANT1:

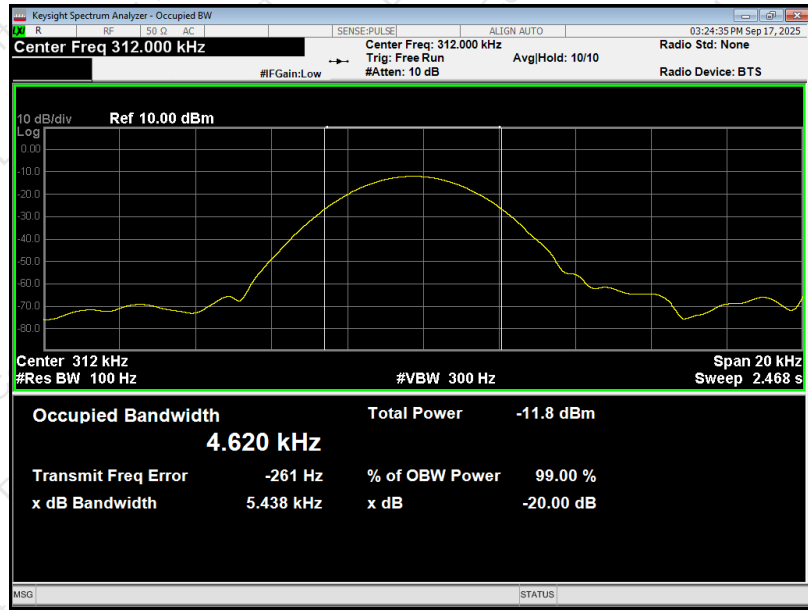


ANT2:





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 *****