



FCC TEST REPORT

FCC ID:2A4HE-DH11

Report Number..... : ZKT-2310308254E

Date of Test..... Oct. 30, 2023 to Nov. 17, 2023

Date of issue..... : Nov. 17, 2023

Total number of pages..... 31

Test Result : PASS

Testing Laboratory..... : Shenzhen ZKT Technology Co., Ltd.

Address : 1/F, No. 101, Building B, No. 6, Tangwei Community Industrial Avenue, Fuhai Street, Bao'an District, Shenzhen, China

Applicant's name : ShenZhen Hai Da Feng Technology Co.,Ltd.

Address : A03, Juji Building ,Yabian Community,Baoan Avenue,Yabian Student Wai,Shajing Street,Baoan District,Shen Zhen,China.

Manufacturer's name : ShenZhen Hai Da Feng Technology Co.,Ltd.

Address : A03, Juji Building ,Yabian Community,Baoan Avenue,Yabian Student Wai,Shajing Street,Baoan District,Shen Zhen,China.

Test specification:

Standard..... : FCC CFR Title 47 Part 15 Subpart C

Test procedure..... : /

Non-standard test method : N/A

Test Report Form No..... : TRF-EL-107_V0

Test Report Form(s) Originator..... : ZKT Testing

Master TRF : Dated: 2020-01-06

This device described above has been tested by ZKT, and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

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Product name..... : 3in1 wireless charger

Trademark : N/A

Model/Type reference..... : DH11
DH10, DH12, DH13, DH14, DH15, DH16, DH17, DH18, DH19

Ratings..... : Input: DC 9V2A, 9V2.7A, 12V2A
Wireless Output phone: 15W
Wireless Output earphone: 5W
Wireless Output iWatch: 2.5W



Testing procedure and testing location:

Testing Laboratory.....: **Shenzhen ZKT Technology Co., Ltd.**

Address.....: 1/F, No. 101, Building B, No. 6, Tangwei Community
Industrial Avenue, Fuhai Street, Bao'an District,
Shenzhen, China

Tested by (name + signature).....: Tom Zou

Tom Zou

Reviewer (name + signature).....: Jackson Fang

Jackson Fang

Approved (name + signature).....: Lake Xie





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1. VERSION

Report No.	Version	Description	Approved
ZKT-2310308254E	Rev.01	Initial issue of report	Nov. 17, 2023



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 ZKT Technology Co., Ltd.
Add. : 1/F, No. 101, Building B, No. 6, Tangwei Community Industrial Avenue, Fuhai Street,
Bao'an District, Shenzhen, China

FCC Test Firm Registration Number: 692225
Designation Number: CN1299
IC Registered No.: 27033

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-18GHz)	U=4.9dB
4	3m chamber Radiated spurious emission(18GHz-40GHz)	U=5.0dB
5	Conducted Adjacent channel power	U=1.38dB
6	Conducted output power uncertainty Above 1G	U=1.576dB
7	Conducted output power uncertainty below 1G	U=1.28dB
8	humidity uncertainty	U=5.3%
9	Temperature uncertainty	U=0.59℃



3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

Product Name:	3in1 wireless charger
Model No.:	DH11
Model Difference:	All models are of the same circuit and RF module, except with different model names. The appearance color is different
Serial No.:	DH10, DH12, DH13, DH14, DH15, DH16, DH17, DH18, DH19
Hardware version:	H1.0
Software version:	S1.0
Operation Frequency:	Phone Coil :115KHz-205KHz Earphone Coil :115KHz-205KHz iWatch Coil :115KHz-330KHz
Modulation type:	ASK
Antenna Type:	Inductive loop coil Antenna
Antenna gain:	0dBi
Power supply:	Input: DC 9V2A, 9V2.7A, 12V2A Wireless Output phone: 15W Wireless Output earphone: 5W Wireless Output iWatch: 2.5W

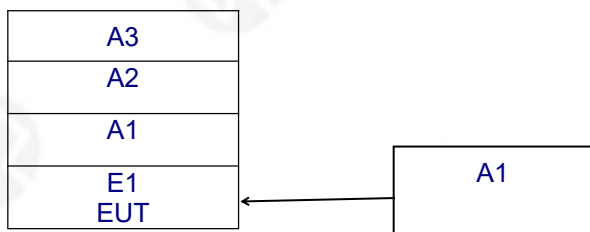
3.2 Test mode

Test Modes:	Description:
Mode 1	AC Adapter+EUT +phone (Battery Status $\leq 1\%$)
Mode 2	AC Adapter+EUT +phone (Battery Status =50%)
Mode 3	AC Adapter+EUT +phone (Battery Status $\geq 98\%$)
Mode 4	AC Adapter+EUT +Earphone(Battery Status $\leq 1\%$)
Mode 5	AC Adapter+EUT +Earphone (Battery Status =50%)
Mode 6	AC Adapter+EUT +Earphone (Battery Status $\geq 98\%$)
Mode 7	AC Adapter+EUT +Watch (Battery Status $\leq 1\%$)
Mode 8	AC Adapter+EUT +Watch (Battery Status =50%)
Mode 9	AC Adapter+EUT +Watch (Battery Status $\geq 98\%$)
Mode 10	AC Adapter+EUT +phone + Earphone +Watch (Battery Status $\leq 1\%$)
Mode 11	AC Adapter+EUT +phone + Earphone +Watch (Battery Status=50%)
Mode 12	AC Adapter+EUT +phone + Earphone +Watch (Battery Status $\geq 98\%$)

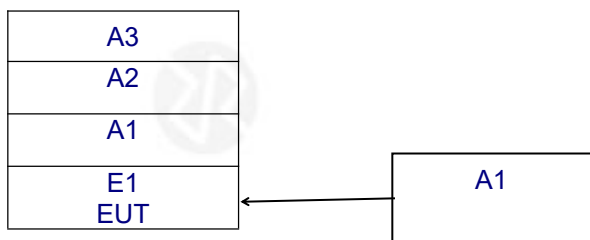


3.3 Block Diagram of EUT Configuration

Conducted Emission



Radiated Emission



3.4 Test Conditions

Temperature: 23~26℃

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
E1	3in1 wireless charger	N/A	DH11	See page 8	EUT
A1	Adapter	HUAWEI	HW-050100B3W	N/A	Auxiliary
A2	Phone	Xiaomi	Mi 10	N/A	Auxiliary
A3	iWatch	iPhone	S4	N/A	Auxiliary
A4	Earphone	iPhone	AirPods Pro 2	N/A	Auxiliary

Item	Shielded Type	Ferrite Core	Length	Note
C1	NO	NO	1.0M	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 equipment

Item	Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
1	Spectrum Analyzer (9kHz-26.5GHz)	KEYSIGHT	9020A	MY55370835	Oct. 28, 2023	Oct. 27, 2024
2	Spectrum Analyzer (10kHz-39.9GHz)	R&S	FSQ	100363	Oct. 28, 2023	Oct. 27, 2024
3	EMI Test Receiver (9kHz-7GHz)	R&S	ESCI7	101169	Oct. 28, 2023	Oct. 27, 2024
4	Bilog Antenna (30MHz-1500MHz)	Schwarzbeck	VULB9168	N/A	Nov. 02, 2023	Nov. 01, 2024
5	Horn Antenna (1GHz-18GHz)	Agilent	AH-118	071145	Nov. 01, 2023	Oct. 31, 2024
6	Horn Antenna (15GHz-40GHz)	A.H.System	SAS-574	588	Oct. 28, 2023	Oct. 27, 2024
7	Loop Antenna	TESEQ	HLA6121	58357	Nov. 01, 2022	Oct. 31, 2024
8	Amplifier (30-1000MHz)	EM Electronics	EM330 Amplifier	060747	Nov. 15, 2022	Nov. 14, 2023
9	Amplifier (1GHz-26.5GHz)	Agilent	8449B	3008A00315	Oct. 28, 2023	Oct. 27, 2024
10	Amplifier (500MHz-40GHz)	Quanjuda	DLE-161	097	Oct. 28, 2023	Oct. 27, 2024
11	Test Cable	N/A	R-01	N/A	Oct. 28, 2023	Oct. 27, 2024
12	Test Cable	N/A	R-02	N/A	Oct. 28, 2023	Oct. 27, 2024
13	Test Cable	N/A	R-03	N/A	Oct. 28, 2023	Oct. 27, 2024
14	Test Cable	N/A	RF-01	N/A	Oct. 28, 2023	Oct. 27, 2024
15	Test Cable	N/A	RF-02	N/A	Oct. 28, 2023	Oct. 27, 2024
16	Test Cable	N/A	RF-03	N/A	Oct. 28, 2023	Oct. 27, 2024
17	ESG Signal Generator	Agilent	E4421B	N/A	Oct. 21, 2023	Oct. 20, 2024
18	Signal Generator	Agilent	N5182A	N/A	Oct. 21, 2023	Oct. 20, 2024
19	Magnetic Field Probe Tester	Narda	ELT-400	0-0344	Nov. 15, 2023	Nov. 14, 2024
20	Wideband Radio Communication Test	R&S	CMW500	106504	Oct. 28, 2023	Oct. 27, 2024
21	MWRF Power Meter Test system	MW	MW100-RPCB	N/A	Oct. 21, 2023	Oct. 20, 2024
22	D.C. Power Supply	LongWei	TPR-6405D	N/A	\	\
23	EMC Software	Frad	EZ-EMC	Ver.EMC-CON 3A1.1	\	\
24	RF Software	MW	MTS8310	V2.0.0.0	\	\
25	Turntable	MF	MF-7802BS	N/A	\	\
26	Antenna tower	MF	MF-7802BS	N/A	\	\



Conduction Test equipment

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
1	LISN	R&S	ENV216	101471	Oct. 21, 2023	Oct. 20, 2024
2	LISN	CYBERTEK	EM5040A	E1850400149	Oct. 21, 2023	Oct. 20, 2024
3	Test Cable	N/A	C-01	N/A	Oct. 21, 2023	Oct. 20, 2024
4	Test Cable	N/A	C-02	N/A	Oct. 21, 2023	Oct. 20, 2024
5	Test Cable	N/A	C-03	N/A	Oct. 21, 2023	Oct. 20, 2024
6	EMI Test Receiver	R&S	ESCI3	101393	Oct. 28, 2023	Oct. 27, 2024
7	Triple-Loop Antenna	N/A	RF300	N/A	Oct. 28, 2023	Oct. 27, 2024
8	Absorbing Clamp	DZ	ZN23201	15034	Oct. 31, 2023	Oct. 30, 2024
9	EMC Software	Frad	EZ-EMC	Ver.EMC-CON 3A1.1	\	\



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

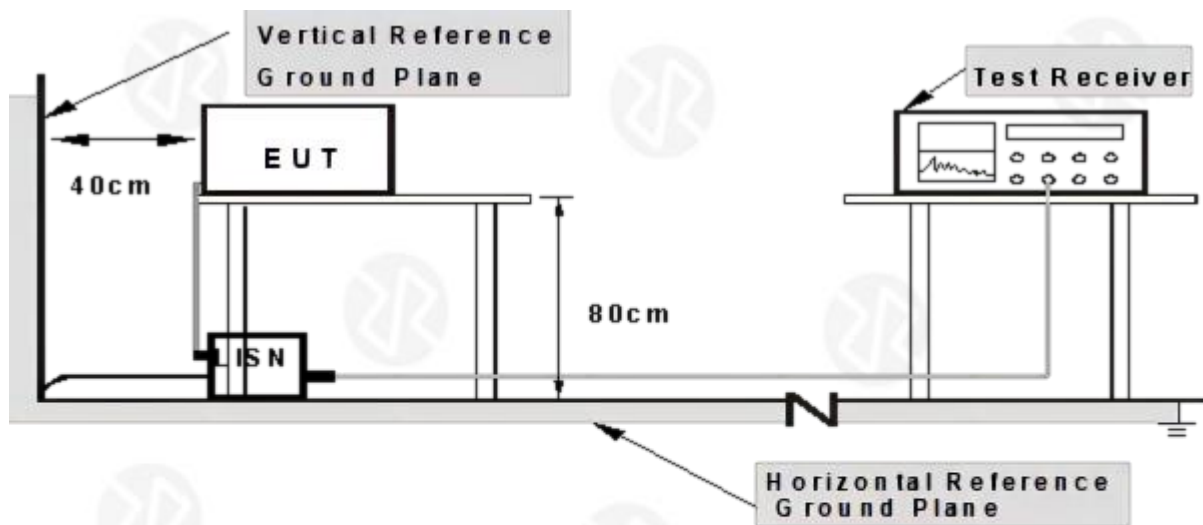
- The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.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

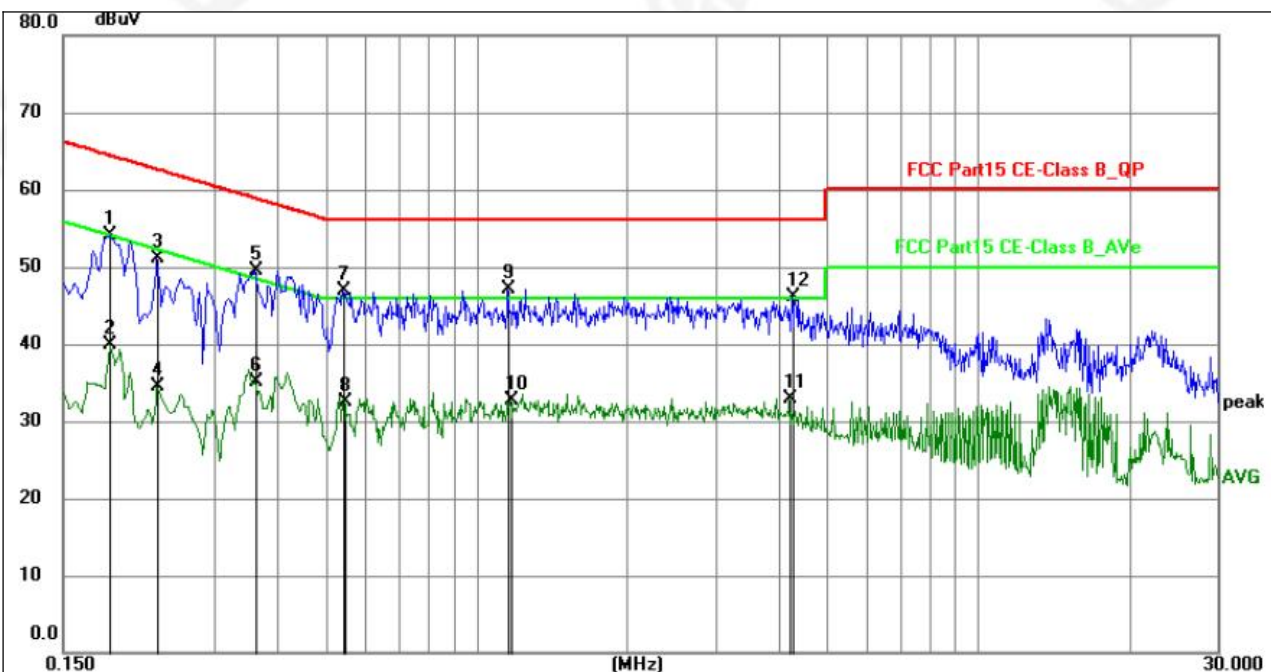
The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

We pretest AC 120V and AC 230V, the worst voltage was AC 120V and the data recording in the report.

4.1.6 Test Result



Temperature:	26℃	Relative Humidity:	54%
Pressure:	101kPa	Phase :	L
Test Voltage :	AC 120V/60Hz	Test Mode:	Mode 10



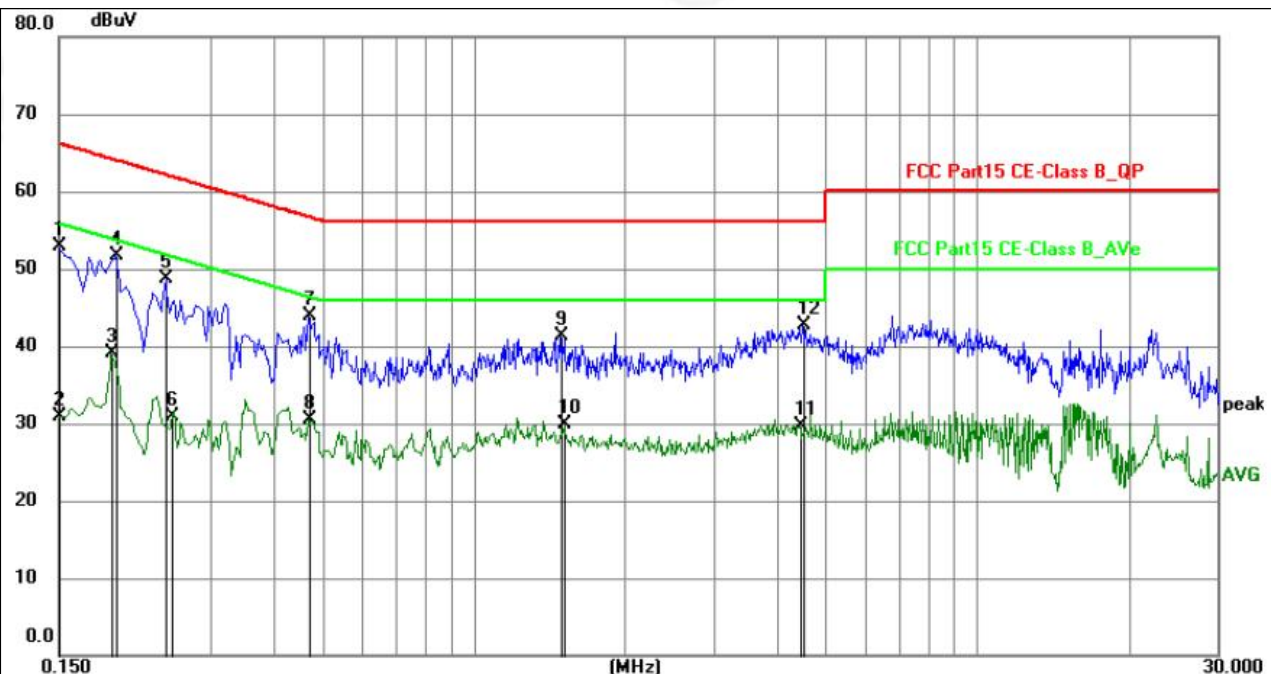
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.1860	33.56	20.55	54.11	64.21	-10.10	QP	P
2	0.1860	19.42	20.55	39.97	54.21	-14.24	AVG	P
3	0.2310	30.50	20.61	51.11	62.41	-11.30	QP	P
4	0.2310	13.95	20.61	34.56	52.41	-17.85	AVG	P
5	0.3615	28.86	20.62	49.48	58.69	-9.21	QP	P
6	0.3615	14.48	20.62	35.10	48.69	-13.59	AVG	P
7	0.5414	26.26	20.63	46.89	56.00	-9.11	QP	P
8	0.5459	11.88	20.64	32.52	46.00	-13.48	AVG	P
9	1.1579	26.35	20.70	47.05	56.00	-8.95	QP	P
10	1.1713	11.97	20.69	32.66	46.00	-13.34	AVG	P
11	4.2045	12.20	20.77	32.97	46.00	-13.03	AVG	P
12	4.2630	25.26	20.76	46.02	56.00	-9.98	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.Measurement Level = Reading level + Correct Factor



Temperature:	26°C	Relative Humidity:	54%
Pressure:	101kPa	Phase :	N
Test Voltage :	AC 120V/60Hz	Test Mode:	Mode 10



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.1500	32.61	20.23	52.84	66.00	-13.16	QP	P
2	0.1500	10.74	20.23	30.97	56.00	-25.03	AVG	P
3	0.1905	18.58	20.43	39.01	54.01	-15.00	AVG	P
4	0.1949	31.35	20.45	51.80	63.83	-12.03	QP	P
5	0.2445	28.18	20.49	48.67	61.94	-13.27	QP	P
6	0.2521	10.40	20.49	30.89	51.69	-20.80	AVG	P
7	0.4695	23.39	20.55	43.94	56.52	-12.58	QP	P
8	0.4695	10.00	20.55	30.55	46.52	-15.97	AVG	P
9	1.4910	20.63	20.72	41.35	56.00	-14.65	QP	P
10	1.5135	9.27	20.72	29.99	46.00	-16.01	AVG	P
11	4.4385	8.94	20.76	29.70	46.00	-16.30	AVG	P
12	4.5240	21.85	20.76	42.61	56.00	-13.39	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.Measurement Level = Reading level + Correct Factor



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	100KHz	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

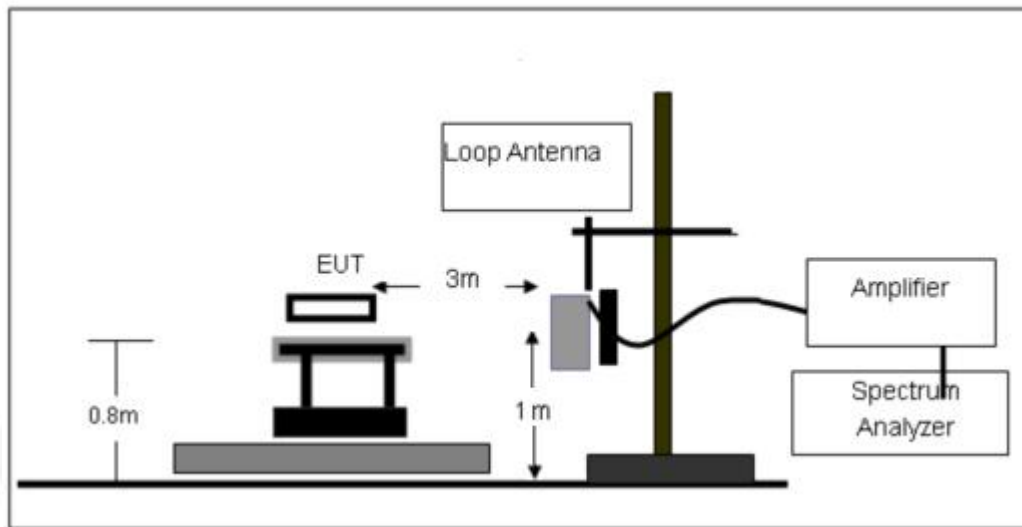
Limits for frequency Above 30MHz

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

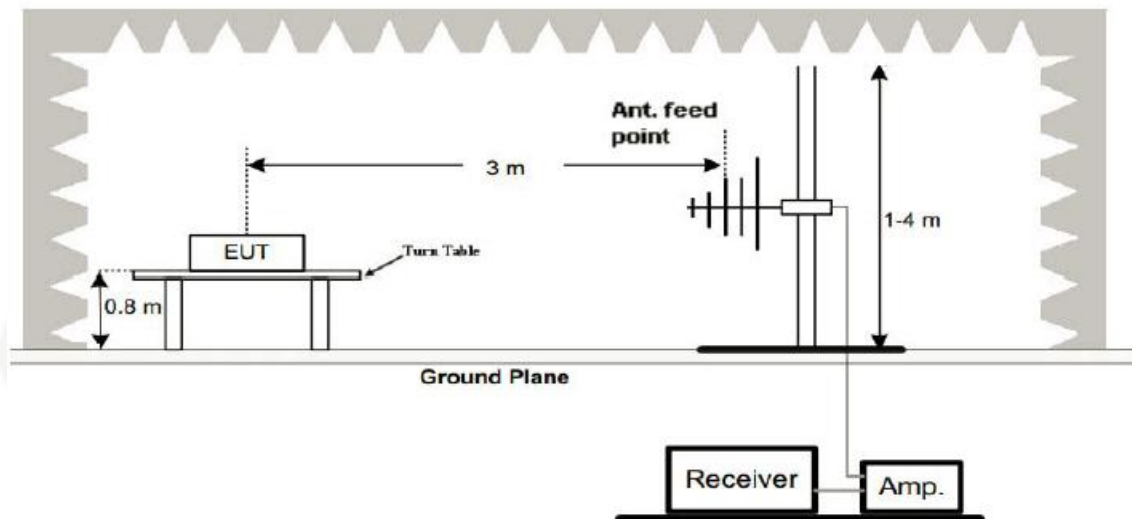


5.2 Anechoic Chamber Test Setup Diagram

(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 C63.10-2013. The specification used was the FCC 15.209 and FCC 15.205 limits.

5.3 Test Procedure

The EUT is placed on a turn table which is 0.8 meter above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT is set 3 meters away from the receiving antenna which is mounted on a antenna tower. The antenna can move up and down between 1 to 4 meters to find out the maximum emission level. Broadband antenna (calibrated by dipole antenna) are used as a receiving antenna. Both horizontal and vertical polarization of the antenna are set on measurement.

5.4 DEVIATION FROM TEST STANDARD

No deviation



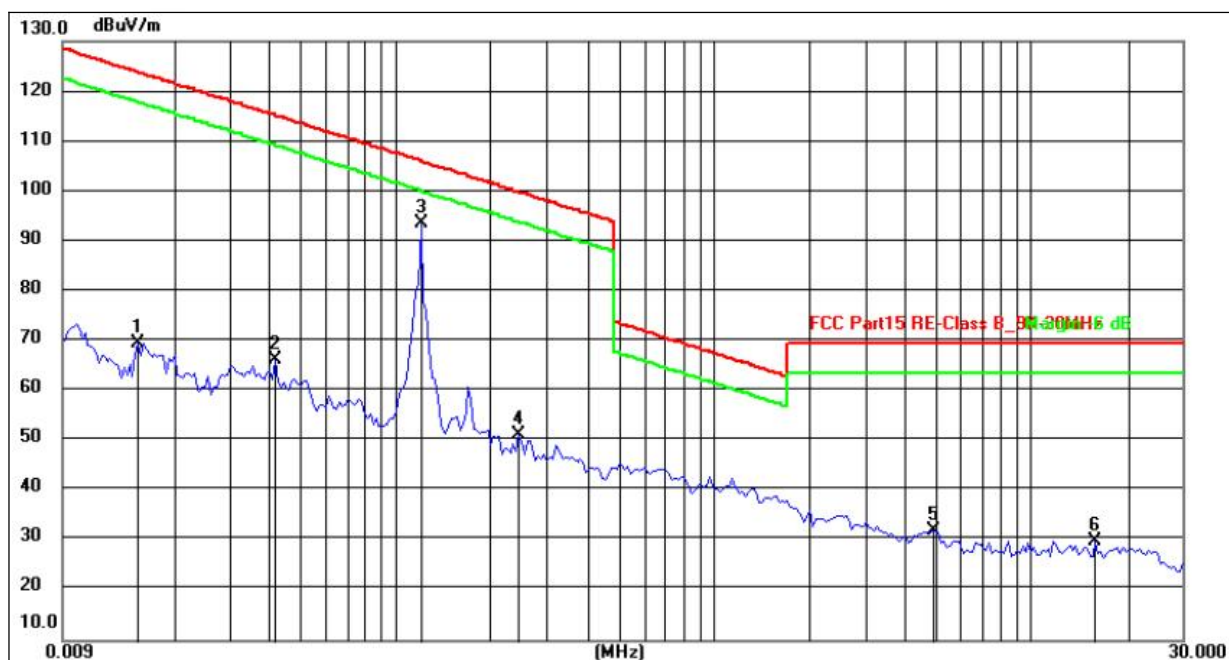
5.5 Test Result

Measurement data:

Note: Limit dBuV/m @3m = Limit dBuV/m @300m+ 80
Limit dBuV/m @3m = Limit dBuV/m @30m + 40

9 kHz~30 MHz

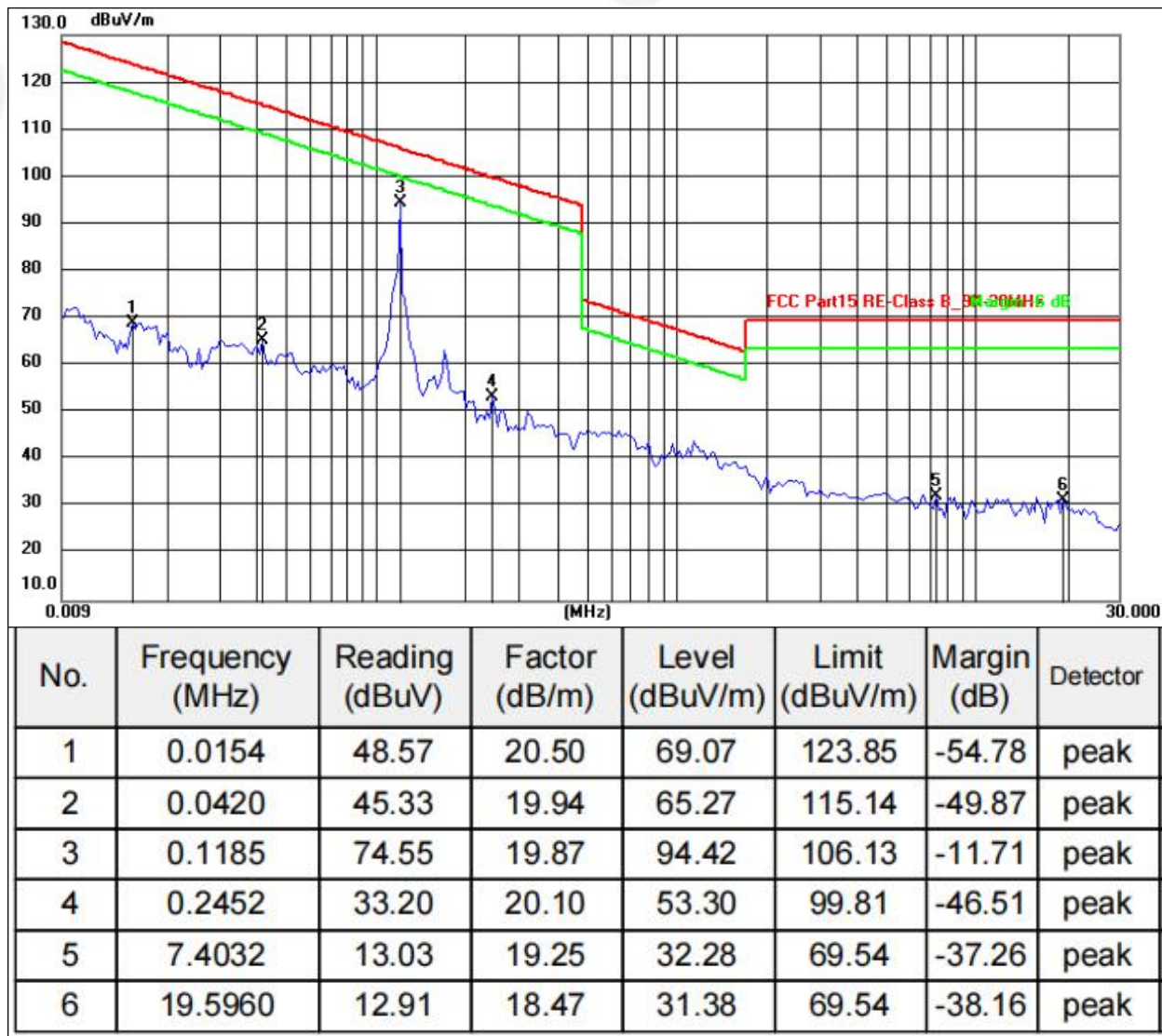
Temperature:	26℃	Relative Humidity:	54%
Pressure:	101kPa	Polarization:	Coaxial
Test Voltage:	AC 120V/60Hz	Test Mode:	Mode 1



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	0.0154	49.07	20.50	69.57	123.85	-54.28	peak
2	0.0420	46.33	19.94	66.27	115.14	-48.87	peak
3	0.1185	73.55	19.87	93.42	106.13	-12.71	peak
4	0.2452	31.20	20.10	51.30	99.81	-48.51	peak
5	4.9348	12.59	19.47	32.06	69.54	-37.48	peak
6	15.9991	11.20	18.82	30.02	69.54	-39.52	peak



Temperature:	26℃	Relative Humidity:	54%
Pressure:	101kPa	Polarization:	Coplaner
Test Voltage:	AC 120V/60Hz	Test Mode:	Mode 1

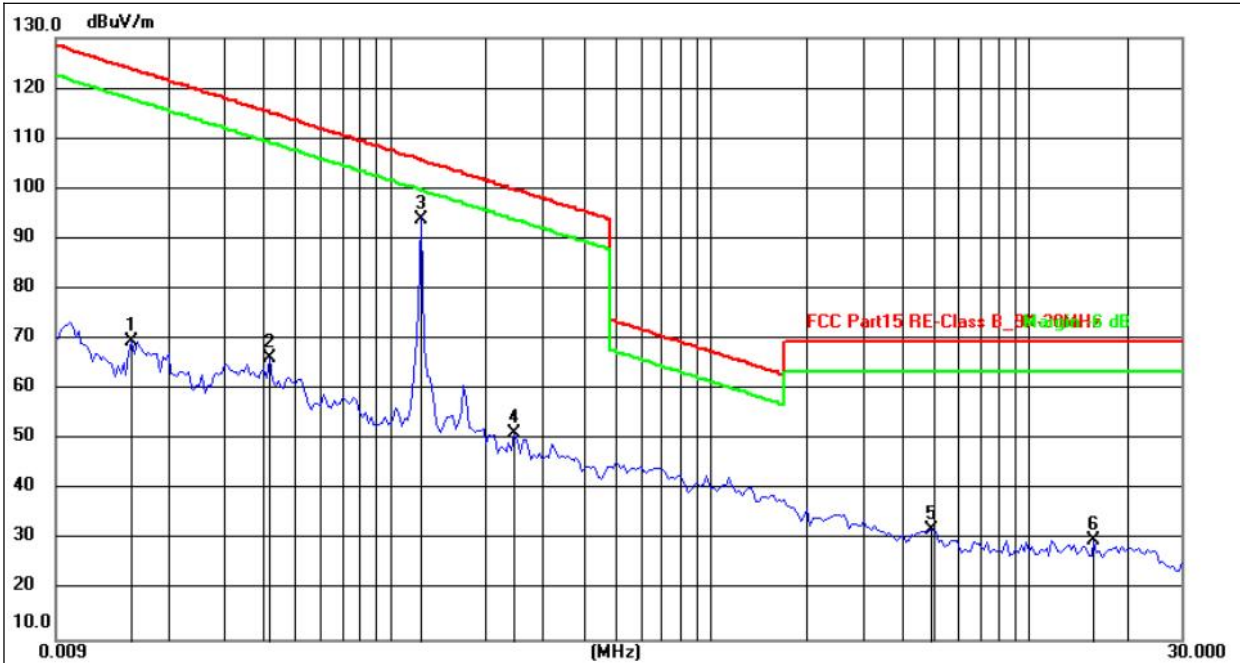


Remarks:

- 1.Final Level =Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor
- 2.The emission levels of other frequencies are very lower than the limit and not show in test report.



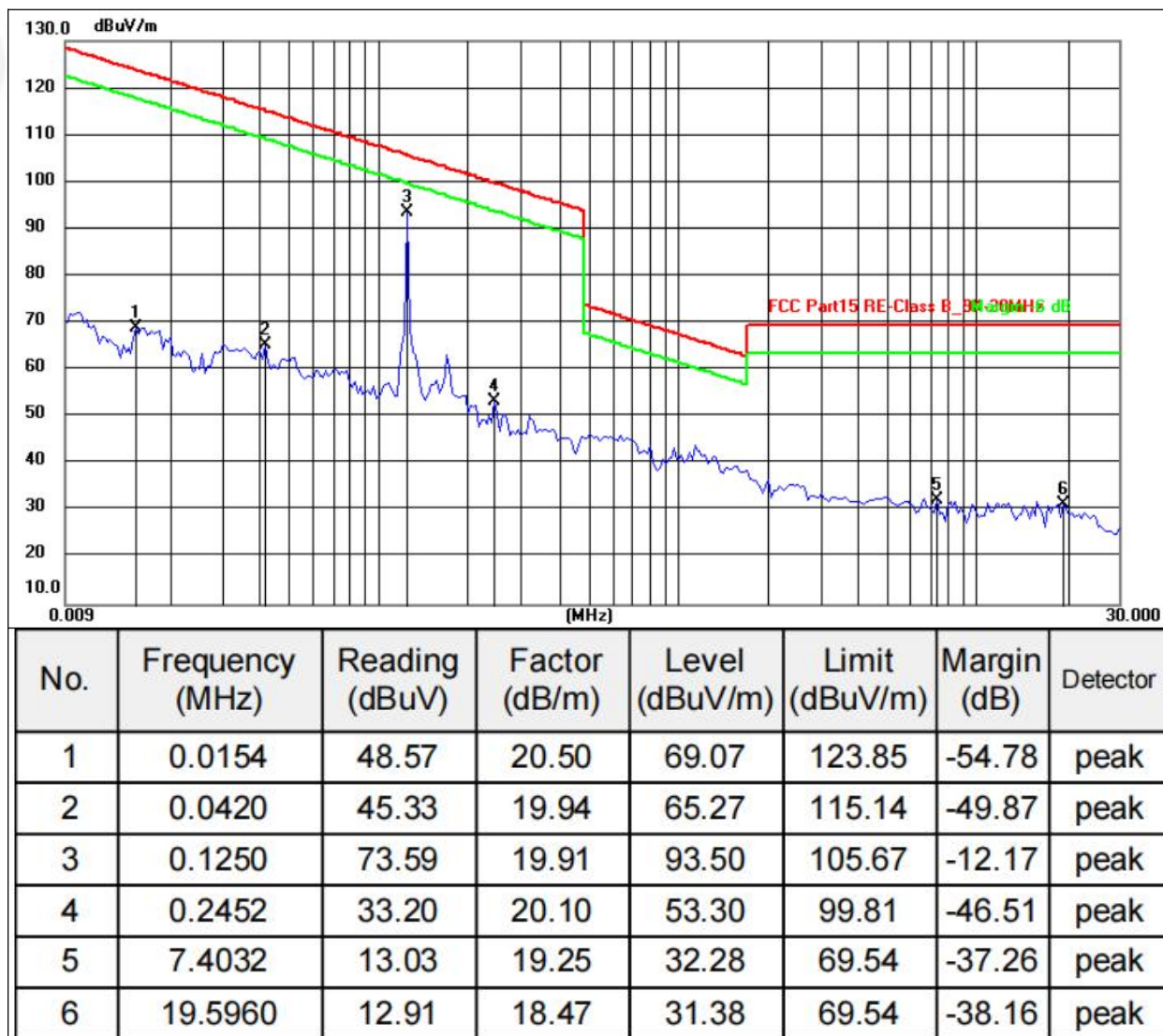
Temperature:	26℃	Relative Humidity:	54%
Pressure:	101kPa	Polarization:	Coaxial
Test Voltage:	AC 120V/60Hz	Test Mode:	Mode 4



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	0.0154	49.07	20.50	69.57	123.85	-54.28	peak
2	0.0420	46.33	19.94	66.27	115.14	-48.87	peak
3	0.1250	74.09	19.91	94.00	105.67	-11.67	peak
4	0.2452	31.20	20.10	51.30	99.81	-48.51	peak
5	4.9348	12.59	19.47	32.06	69.54	-37.48	peak
6	15.9991	11.20	18.82	30.02	69.54	-39.52	peak



Temperature:	26℃	Relative Humidity:	54%
Pressure:	101kPa	Polarization:	Coplaner
Test Voltage:	AC 120V/60Hz	Test Mode:	Mode 4

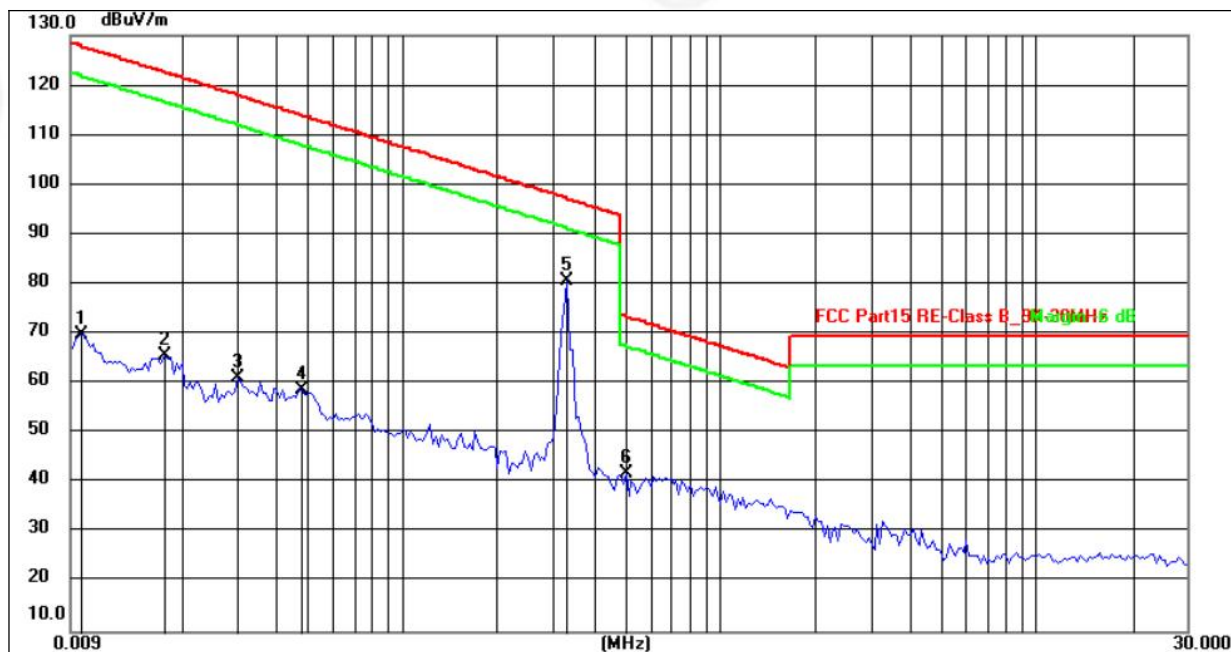


Remarks:

- 1.Final Level =Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor
- 2.The emission levels of other frequencies are very lower than the limit and not show in test report.



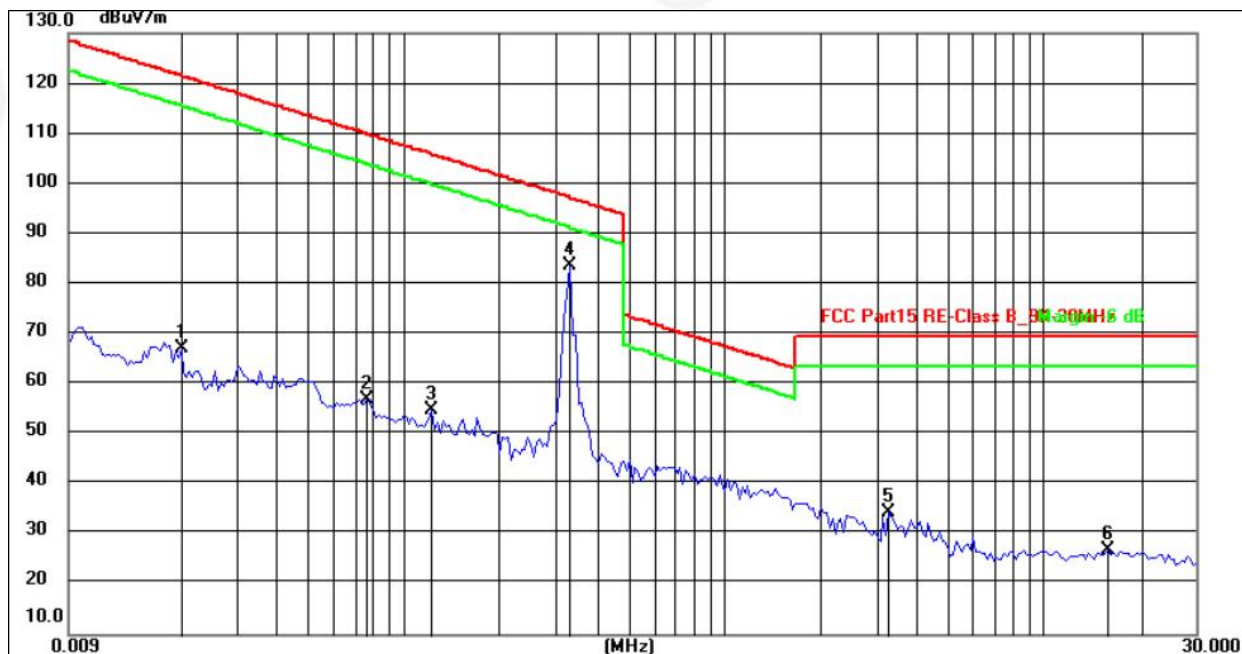
Temperature:	26℃	Relative Humidity:	54%
Pressure:	101kPa	Polarization:	Coaxial
Test Voltage:	AC 120V/60Hz	Test Mode:	Mode 7



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	0.0097	69.95	0.05	70.00	127.87	-57.87	peak
2	0.0177	45.28	20.47	65.75	122.65	-56.90	peak
3	0.0303	40.81	20.21	61.02	117.98	-56.96	peak
4	0.0483	38.93	19.79	58.72	113.93	-55.21	peak
5	0.3270	60.59	20.13	80.72	97.31	-16.59	peak
6	0.5090	21.85	20.21	42.06	73.47	-31.41	peak



Temperature:	26℃	Relative Humidity:	54%
Pressure:	101kPa	Polarization:	Coplaner
Test Voltage:	AC 120V/60Hz	Test Mode:	Mode 7



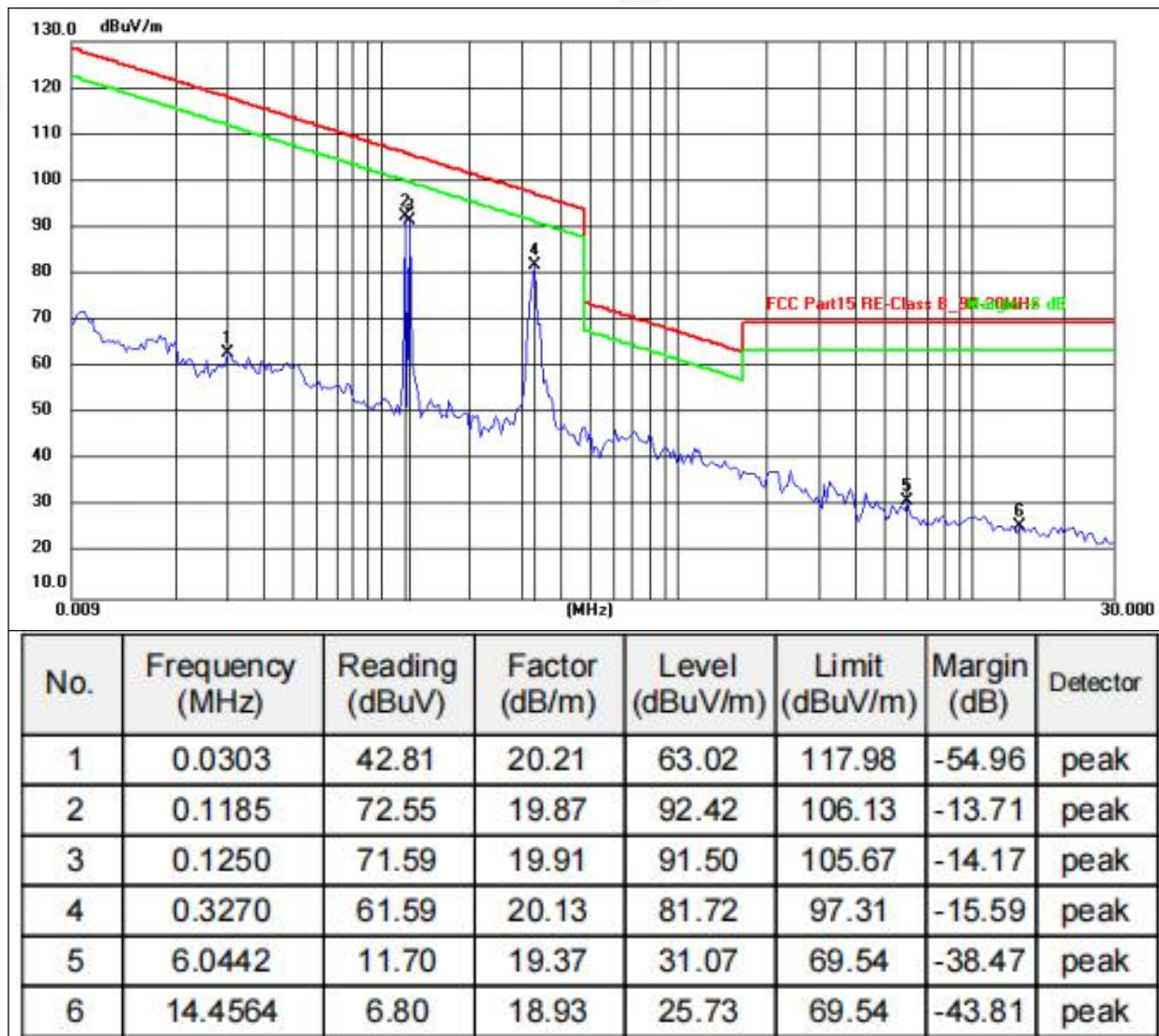
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	0.0200	46.56	20.45	67.01	121.58	-54.57	peak
2	0.0772	37.13	19.85	56.98	109.85	-52.87	peak
3	0.1231	35.03	19.90	54.93	105.80	-50.87	peak
4	0.3270	63.59	20.13	83.72	97.31	-13.59	peak
5	3.2894	14.82	19.63	34.45	69.54	-35.09	peak
6	15.9991	8.20	18.82	27.02	69.54	-42.52	peak

Remarks:

- 1.Final Level =Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor
- 2.The emission levels of other frequencies are very lower than the limit and not show in test report.

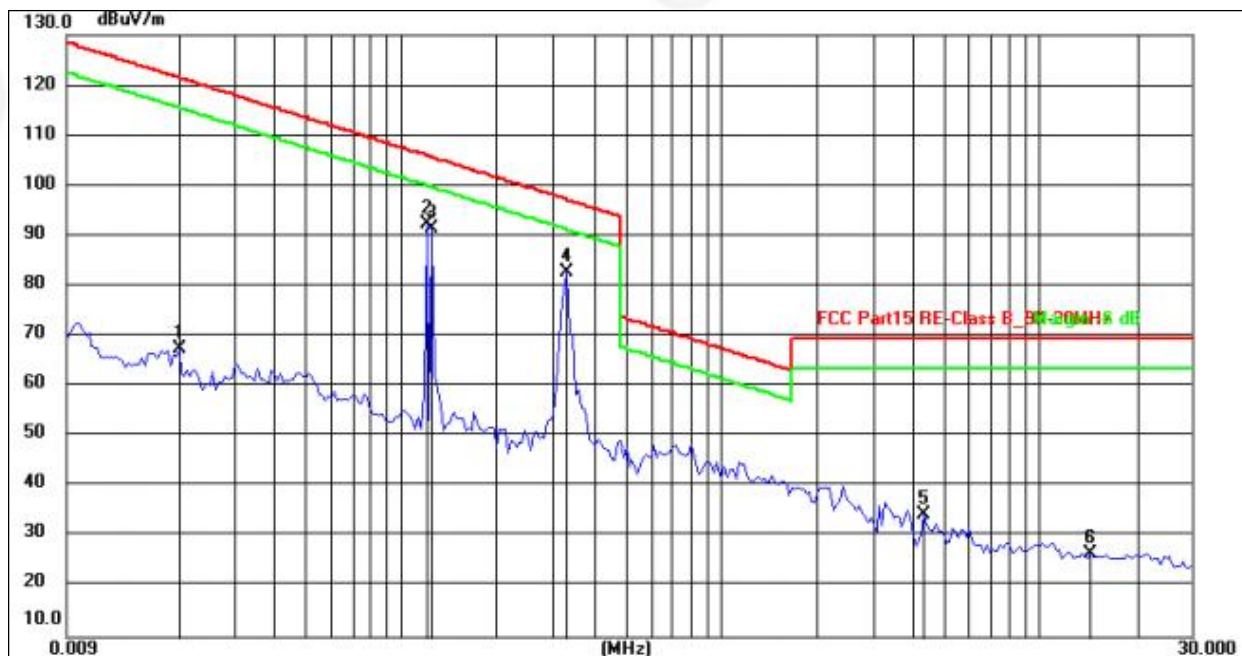


Temperature:	26℃	Relative Humidity:	54%
Pressure:	101kPa	Polarization:	Coaxial
Test Voltage:	AC 120V/60Hz	Test Mode:	Mode 10





Temperature:	26℃	Relative Humidity:	54%
Pressure:	101kPa	Polarization:	Coplaner
Test Voltage:	AC 120V/60Hz	Test Mode:	Mode 10



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	0.0200	47.06	20.45	67.51	121.58	-54.07	peak
2	0.1185	72.55	19.87	92.42	106.13	-13.71	peak
3	0.1250	71.59	19.91	91.50	105.67	-14.17	peak
4	0.3270	62.59	20.13	82.72	97.31	-14.59	peak
5	4.3695	14.97	19.52	34.49	69.54	-35.05	peak
6	14.4564	7.80	18.93	26.73	69.54	-42.81	peak

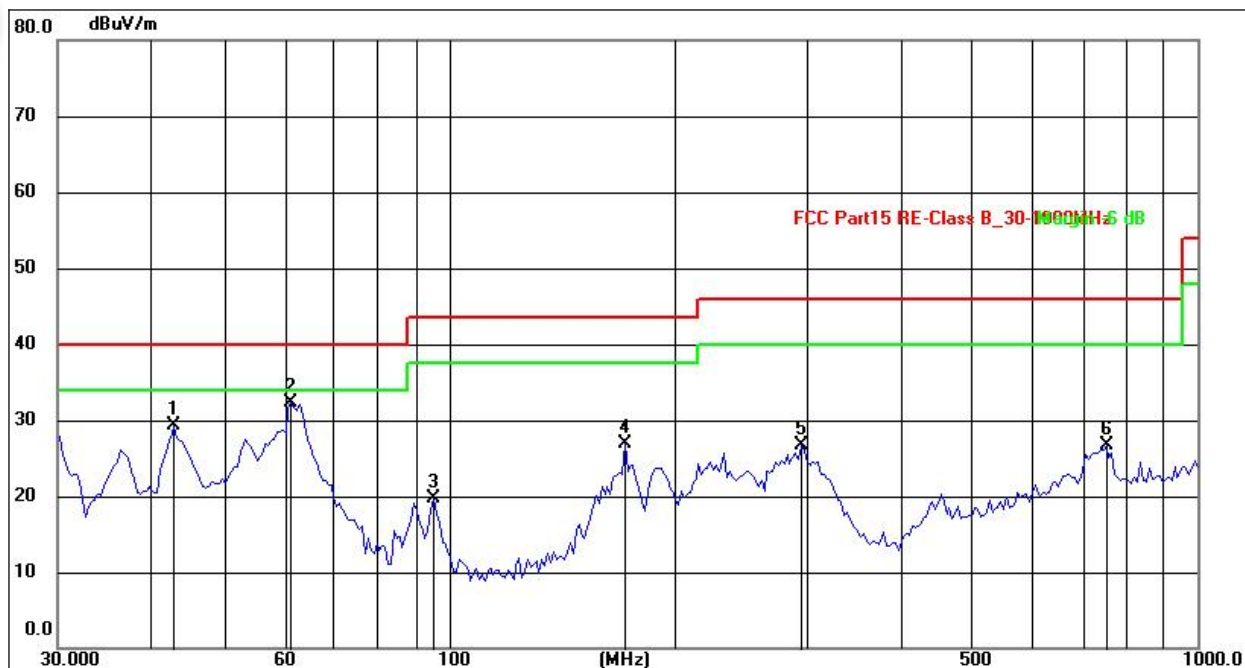
Remarks:

- 1.Final Level =Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor
- 2.The emission levels of other frequencies are very lower than the limit and not show in test report.



30MHz-1GHz

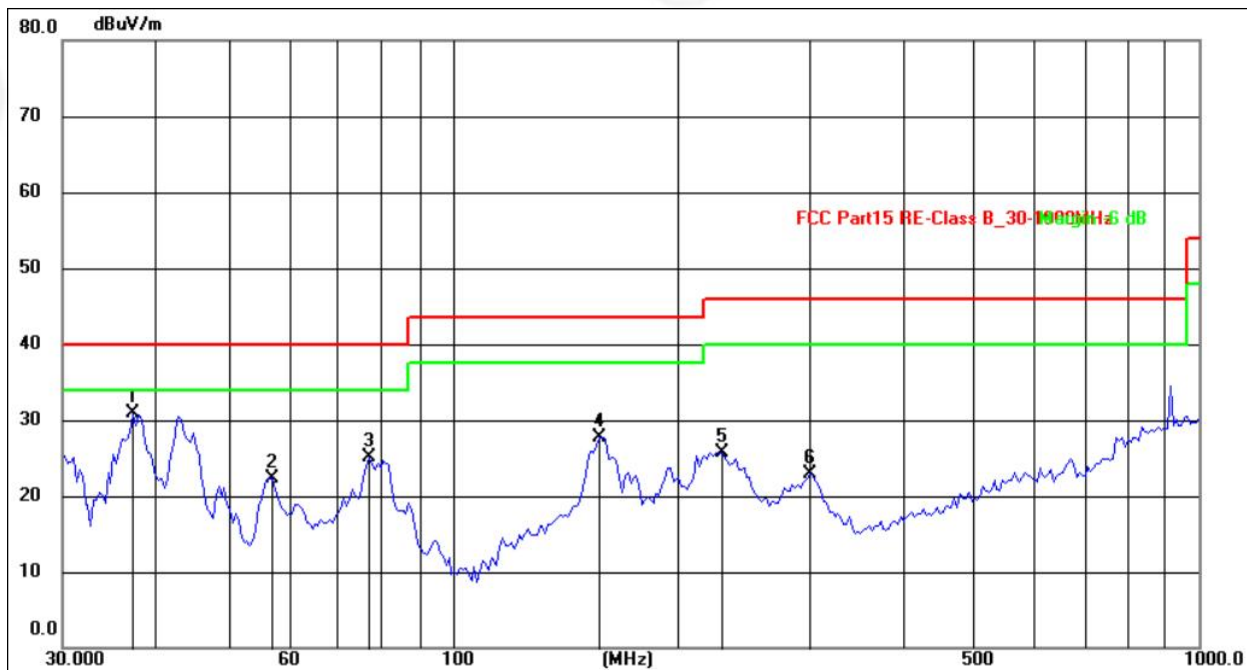
Temperature:	26℃	Relative Humidity:	54%
Pressure:	101 kPa	Polarization:	Horizontal
Test Voltage:	AC 120V/60Hz	Test Mode:	Mode 10



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	42.9750	43.36	-14.10	29.26	40.00	-10.74	QP
2	61.5618	46.97	-14.66	32.31	40.00	-7.69	QP
3	95.4269	39.65	-19.99	19.66	43.50	-23.84	QP
4	171.6933	44.14	-17.15	26.99	43.50	-16.51	QP
5	295.6648	43.13	-16.41	26.72	46.00	-19.28	QP
6	755.3873	33.46	-6.85	26.61	46.00	-19.39	QP



Temperature:	26℃	Relative Humidity:	54%
Pressure:	101kPa	Polarization:	Vertical
Test Voltage:	AC 120V/60Hz	Test Mode:	Mode 10



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	37.3509	48.09	-17.26	30.83	40.00	-9.17	QP
2	57.3922	40.39	-18.05	22.34	40.00	-17.66	QP
3	77.3210	46.38	-21.19	25.19	40.00	-14.81	QP
4	157.2828	47.98	-20.28	27.70	43.50	-15.80	QP
5	229.2930	46.04	-20.33	25.71	46.00	-20.29	QP
6	300.8942	41.29	-18.30	22.99	46.00	-23.01	QP

Remarks:

- 1.Final Level =Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor
- 2.The emission levels of other frequencies are very lower than the limit and not show in test report.



6. BANDWIDTH TEST

1. Set RBW in 1% to 5% of the bandwidth
2. Set the video bandwidth (VBW) $\geq 3 \times$ RBW.
3. Detector = Peak.
4. Trace mode = max hold.
5. Sweep = auto couple.
6. Allow the trace to stabilize.
7. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 20 dB relative to the maximum level measured in the fundamental emission.

TEST SETUP

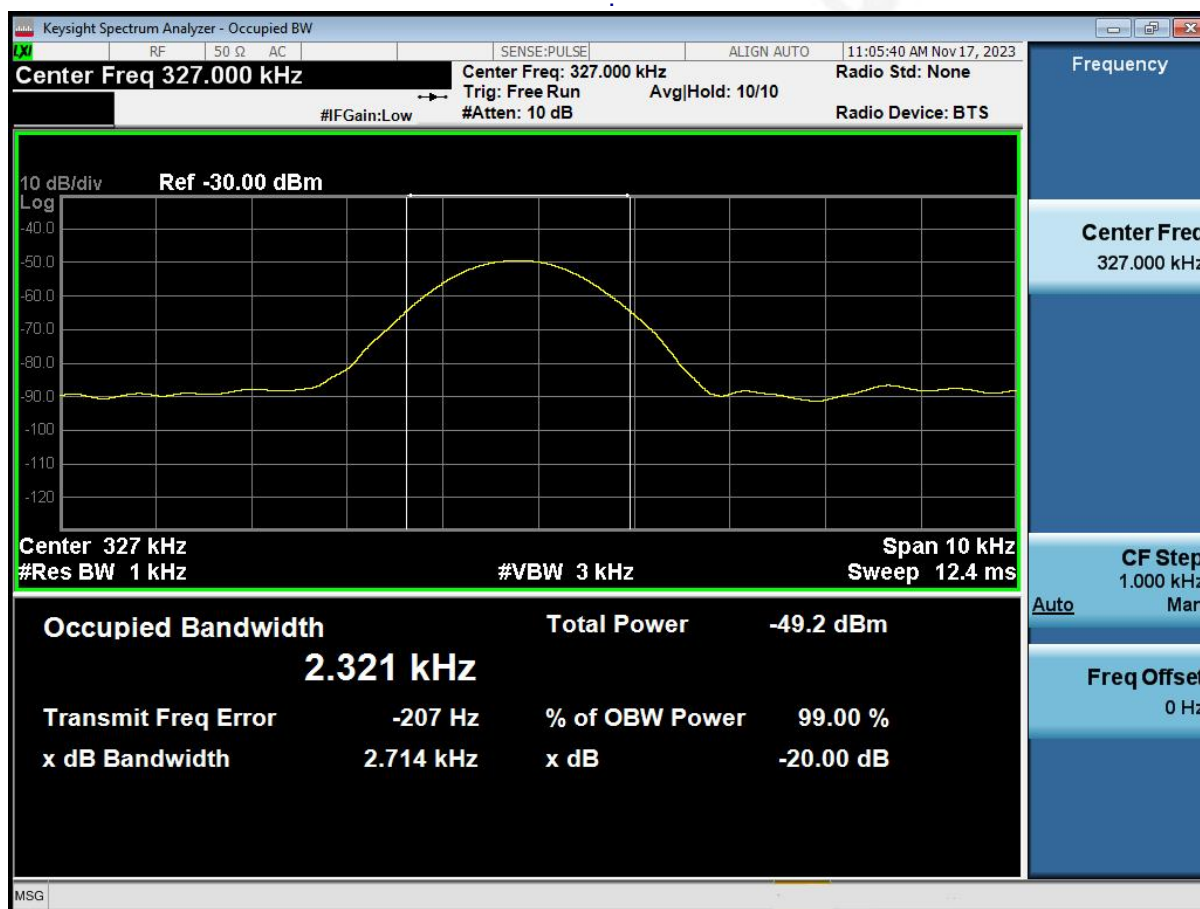
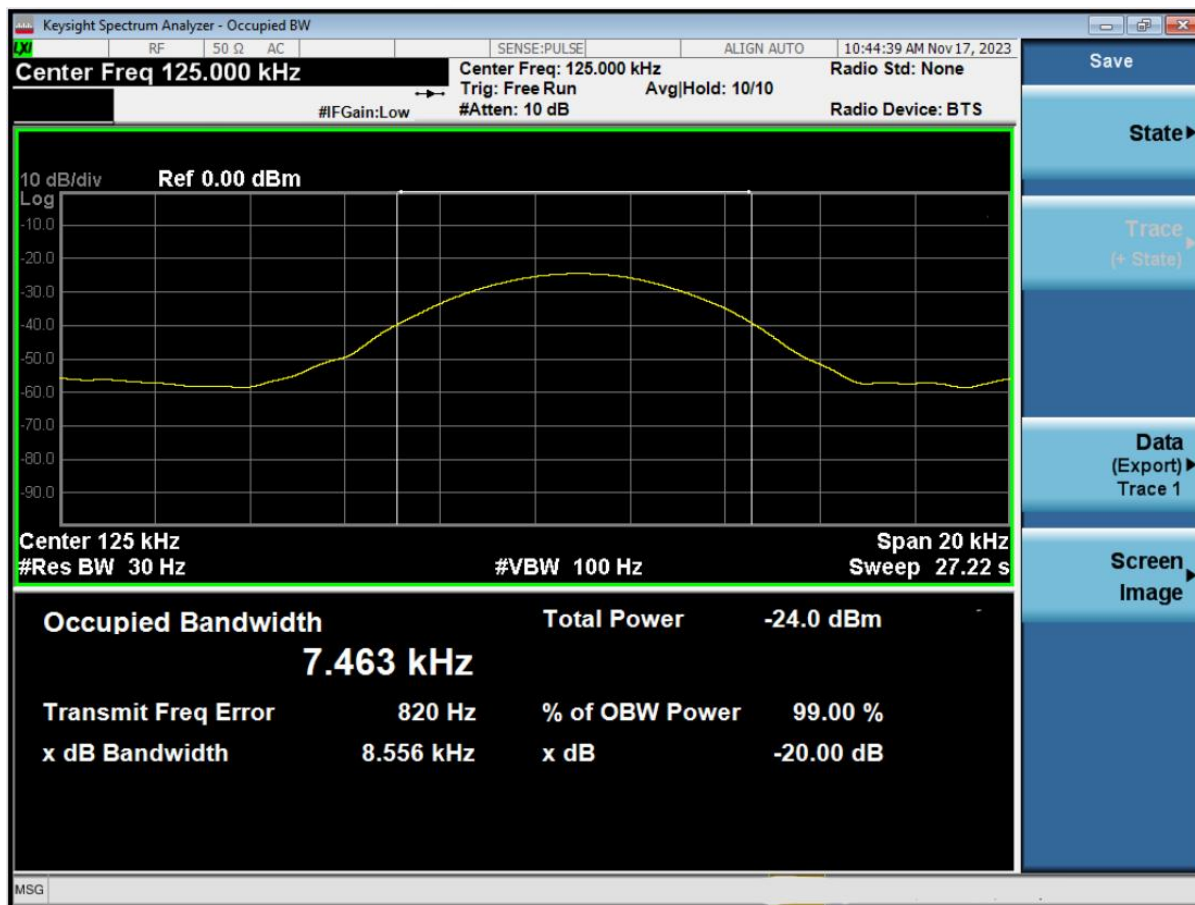




Temperature:	26 °C	Relative Humidity:	54%
Pressure:	101kPa		

Coil	Frequency (KHz)	20dB bandwidth (KHz)	Result
Coil 1	118.500	12.56	Pass
Coil 2	125.000	8.556	Pass
Coil 3	327.00	2.714	Pass







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 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 *****