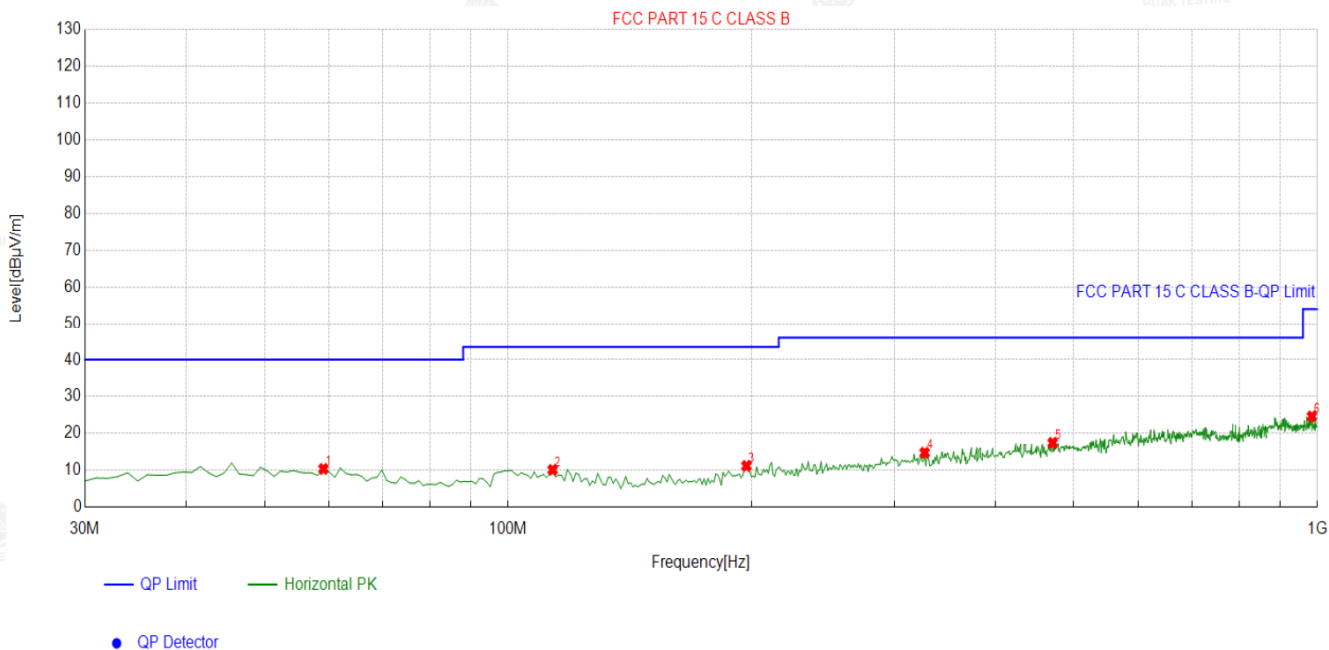


Below 1GHz Test Results:

All the test modes completed for test. Only the worst result was reported as below:

Antenna polarity: Horizontal

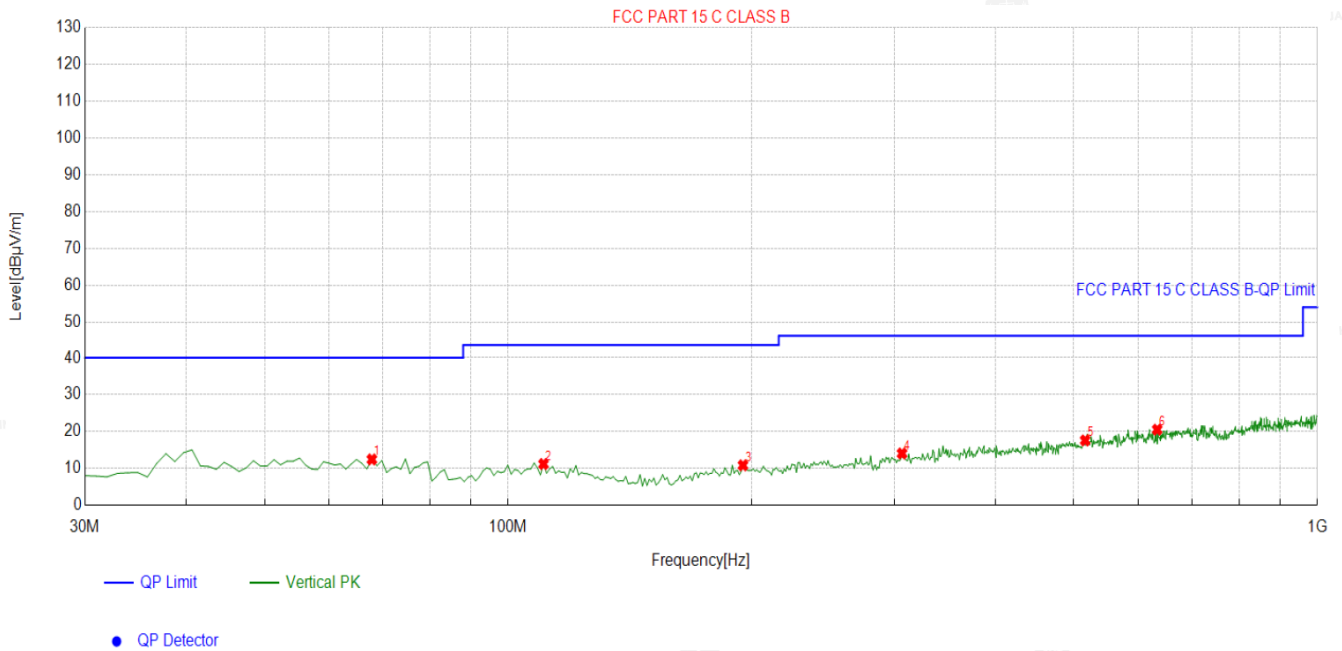


Suspected List									
NO.	Freq. [MHz]	Factor [dB]	Reading [dBμV/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	59.1291	-13.54	23.95	10.41	40.00	29.59	100	292	Horizontal
2	113.5035	-15.09	25.25	10.16	43.50	33.34	100	262	Horizontal
3	197.0070	-14.97	26.19	11.22	43.50	32.28	100	343	Horizontal
4	327.1171	-10.96	25.76	14.80	46.00	31.20	100	147	Horizontal
5	470.8208	-8.49	25.95	17.46	46.00	28.54	100	186	Horizontal
6	984.4645	-0.57	25.21	24.64	54.00	29.36	100	70	Horizontal

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Limit – Level



Antenna polarity: Vertical



Suspected List

NO.	Freq. [MHz]	Factor [dB]	Reading [dBμV/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	67.8679	-16.02	28.49	12.47	40.00	27.53	100	326	Vertical
2	110.5906	-14.50	25.72	11.22	43.50	32.28	100	326	Vertical
3	195.0651	-15.20	26.07	10.87	43.50	32.63	100	357	Vertical
4	306.7267	-11.89	25.98	14.09	46.00	31.91	100	278	Vertical
5	516.4565	-7.74	25.36	17.62	46.00	28.38	100	169	Vertical
6	633.9439	-5.04	25.59	20.55	46.00	25.45	100	286	Vertical

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Limit – Level

Harmonics and Spurious Emissions

Frequency Range (9 kHz-30MHz)

Frequency (MHz)	Level@3m (dBμV/m)	Limit@3m (dBμV/m)
--	--	--
--	--	--
--	--	--
--	--	--

Note: 1. Emission Level=Reading+ Cable loss+ Antenna factor-Amp factor.

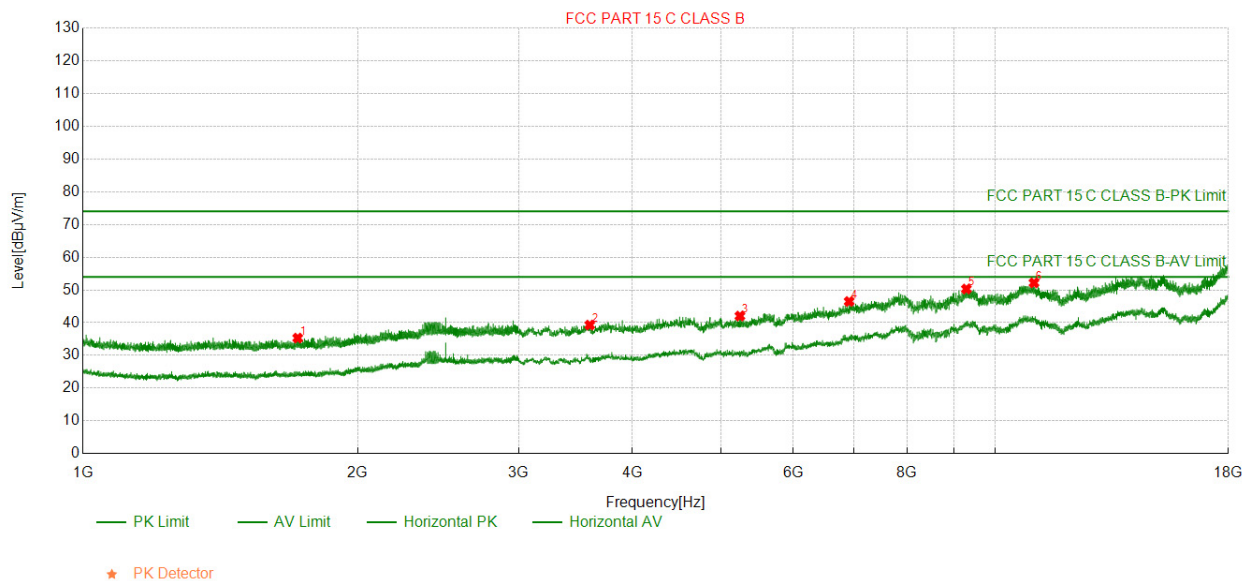
2. The emission levels are 20 dB below the limit value, which are not reported. It is deemed to comply with the requirement.

Above 1GHz Test Results

All the test modes completed for test. Only the worst result was reported as below:

For 1GHz to 18GHz

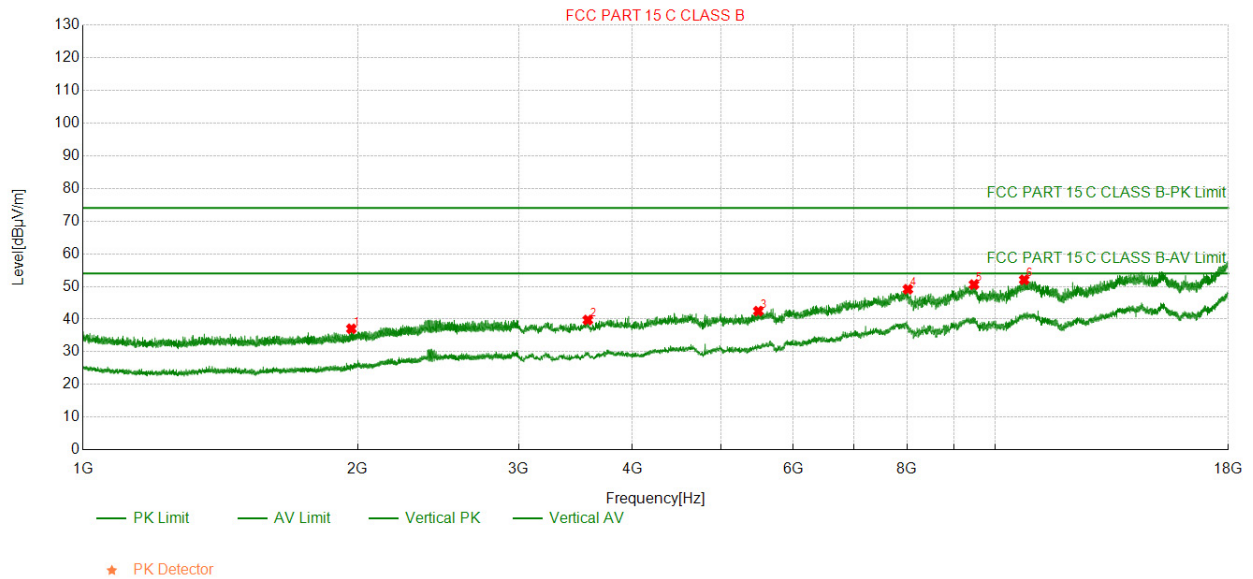
Antenna polarity: Horizontal



Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	PK Level [dBμV/m]	Factor [dB]	PK Limit [dBμV/m]	PK Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1718.072	53.78	35.32	-18.46	74.00	38.68	150	18	Horizontal
2	3591.059	52.44	39.30	-13.14	74.00	34.70	150	93	Horizontal
3	5245.725	51.81	42.05	-9.76	74.00	31.95	150	105	Horizontal
4	6910.891	50.91	46.49	-4.42	74.00	27.51	150	287	Horizontal
5	9290.129	51.13	50.30	-0.83	74.00	23.70	150	358	Horizontal
6	11018.302	49.77	52.18	2.41	74.00	21.82	150	171	Horizontal

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Limit – Level

Antenna polarity: Vertical

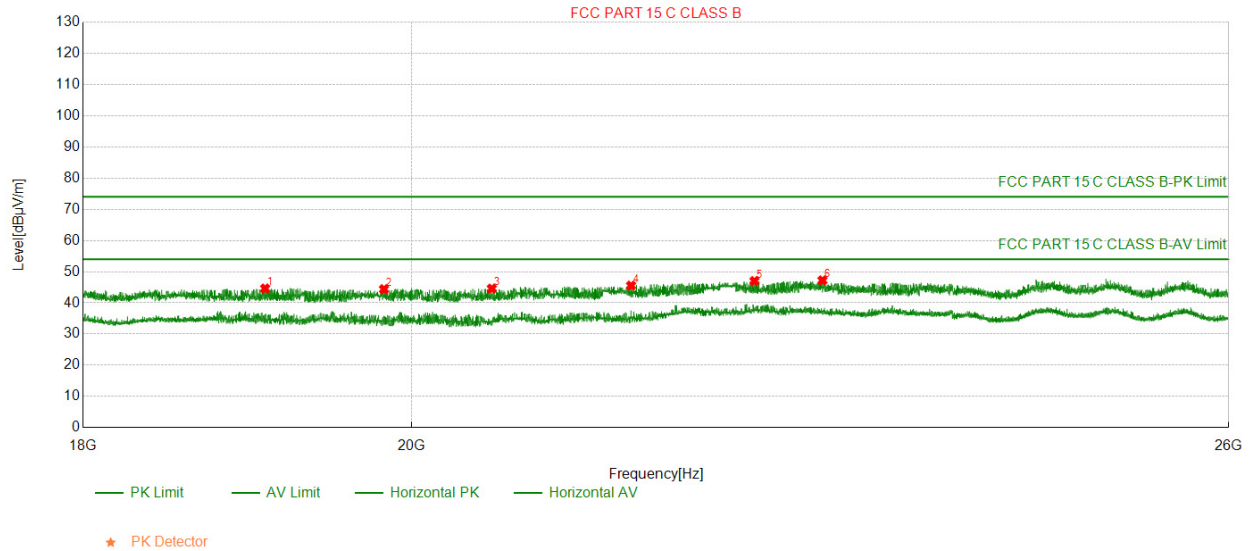


Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	PK Level [dBμV/m]	Factor [dB]	PK Limit [dBμV/m]	PK Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1967.497	54.29	37.07	-17.22	74.00	36.93	150	149	Vertical
2	3573.057	53.01	39.75	-13.26	74.00	34.25	150	184	Vertical
3	5494.749	51.23	42.46	-8.77	74.00	31.54	150	297	Vertical
4	8015.002	50.85	49.15	-1.70	74.00	24.85	150	309	Vertical
5	9470.147	50.53	50.58	0.05	74.00	23.42	150	46	Vertical
6	10749.775	50.25	52.04	1.79	74.00	21.96	150	41	Vertical

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Limit – Level

For 18GHz to 26GHz

Antenna polarity: Horizontal

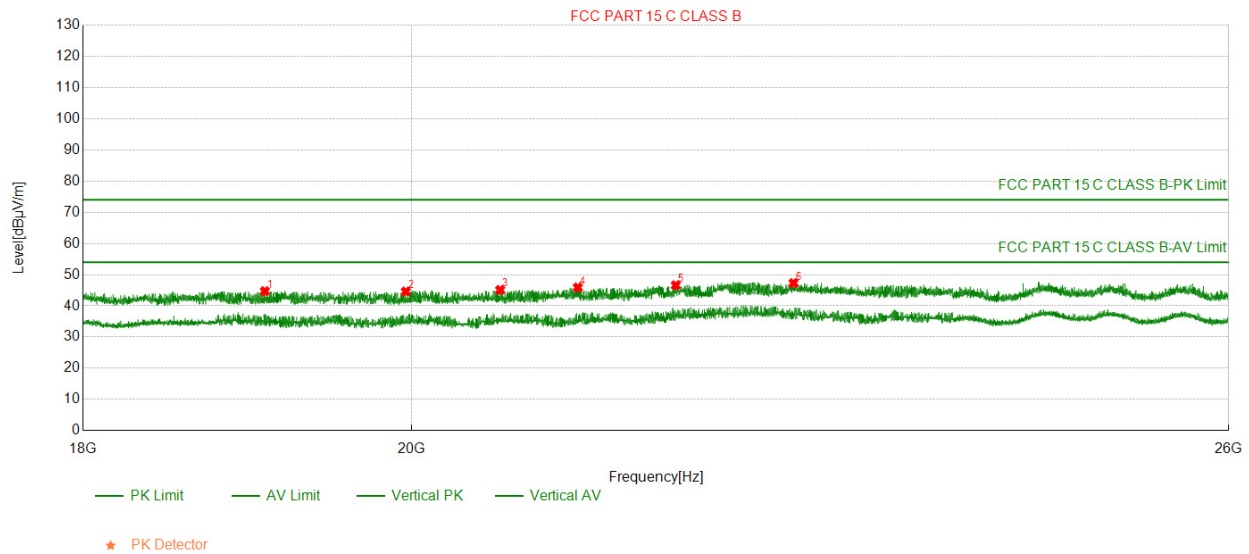


Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV/m]	PK Level [dBμV/m]	Factor [dB]	PK Limit [dBμV/m]	PK Margin [dB]	Height [cm]	Angle [°]	Polarity
1	19082.508	38.83	44.61	5.78	74.00	29.39	150	260	Horizontal
2	19824.982	38.25	44.38	6.13	74.00	29.62	150	220	Horizontal
3	20523.452	38.62	44.57	5.95	74.00	29.43	150	150	Horizontal
4	21461.946	40.24	45.53	5.29	74.00	28.47	150	340	Horizontal
5	22329.233	41.28	46.99	5.71	74.00	27.01	150	220	Horizontal
6	22822.082	41.67	47.21	5.54	74.00	26.79	150	160	Horizontal

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Limit – Level

Antenna polarity: Vertical



Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	PK Level [dBμV/m]	Factor [dB]	PK Limit [dBμV/m]	PK Margin [dB]	Height [cm]	Angle [°]	Polarity
1	19080.908	38.92	44.70	5.78	74.00	29.30	150	330	Vertical
2	19964.196	38.40	44.60	6.20	74.00	29.40	150	340	Vertical
3	20578.658	39.20	45.10	5.90	74.00	28.90	150	270	Vertical
4	21097.910	40.56	45.88	5.32	74.00	28.12	150	220	Vertical
5	21772.377	41.05	46.59	5.54	74.00	27.41	150	230	Vertical
6	22610.861	41.70	47.30	5.60	74.00	26.70	150	230	Vertical

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Limit – Level

5. Band Edge

5.1 Limits

FCC PART 15.249(d) Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in §15.209, whichever is the lesser attenuation.

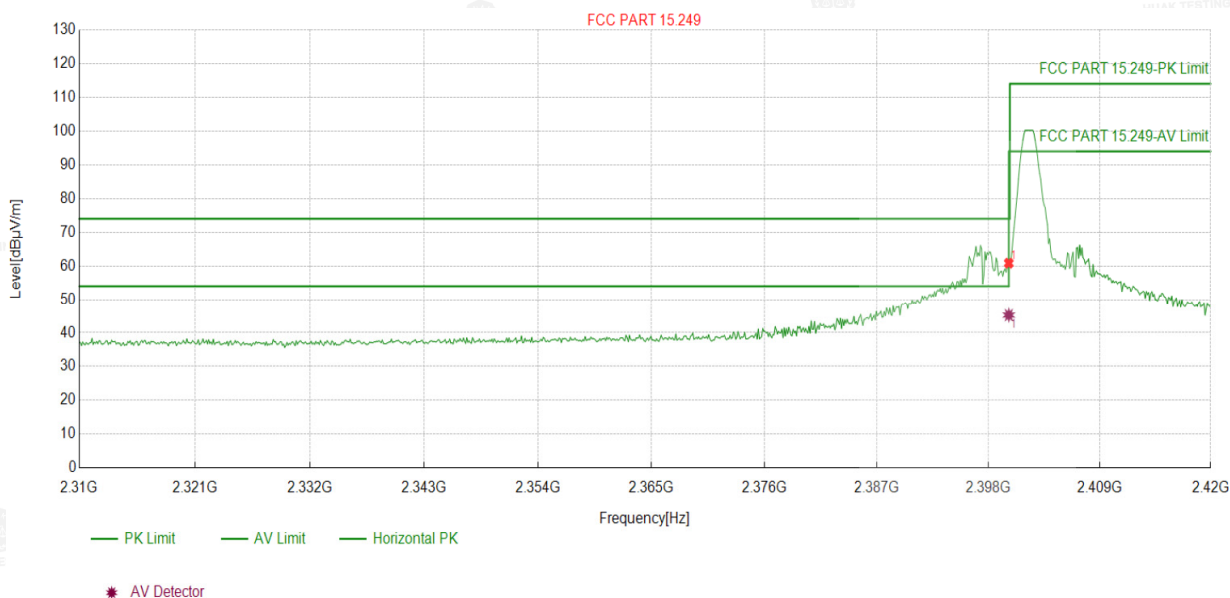
5.2 Test Procedure

The band edge compliance of RF radiated emission should be measured by following the guidance in ANSI C63.10 with respect to maximizing the emission by rotating the EUT, measuring the emission while the EUT is situated in three orthogonal planes (if appropriate), adjusting the measurement antenna height and polarization etc.

5.3 Test Result

Operation Mode: TX CH Low (2402MHz)

Antenna polarity: Horizontal



Suspected Data List

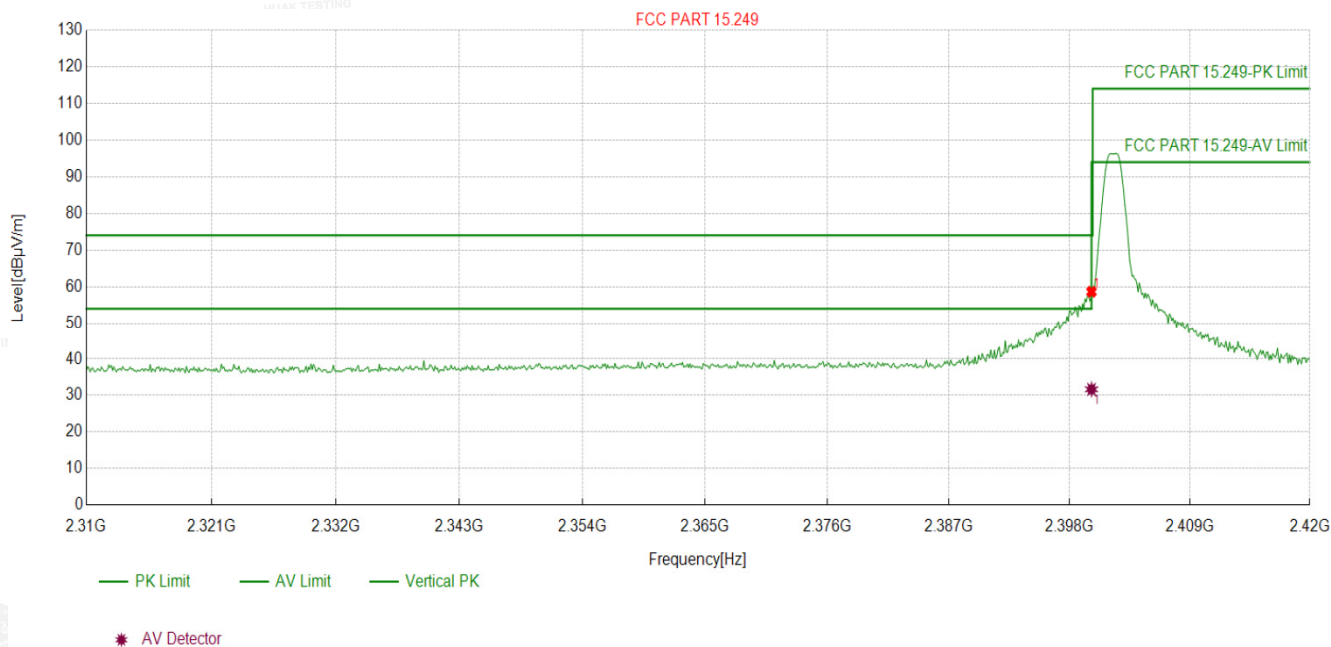
NO.	Freq. [MHz]	Reading [dBμV/m]	PK Level [dBμV/m]	Factor [dB]	PK Limit [dBμV/m]	PK Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2400.000	75.29	60.86	-14.43	74.00	13.14	150	297	Horizontal

AV Final Data List

NO	Freq. [MHz]	Factor [dB]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2400.000	-14.43	45.22	54.00	8.78	150	297	Horizontal

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Limit – Level

Antenna polarity: Vertical



Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV/m]	PK Level [dBμV/m]	Factor [dB]	PK Limit [dBμV/m]	PK Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2400.000	73.07	58.64	-14.43	74.00	15.36	150	325	Vertical

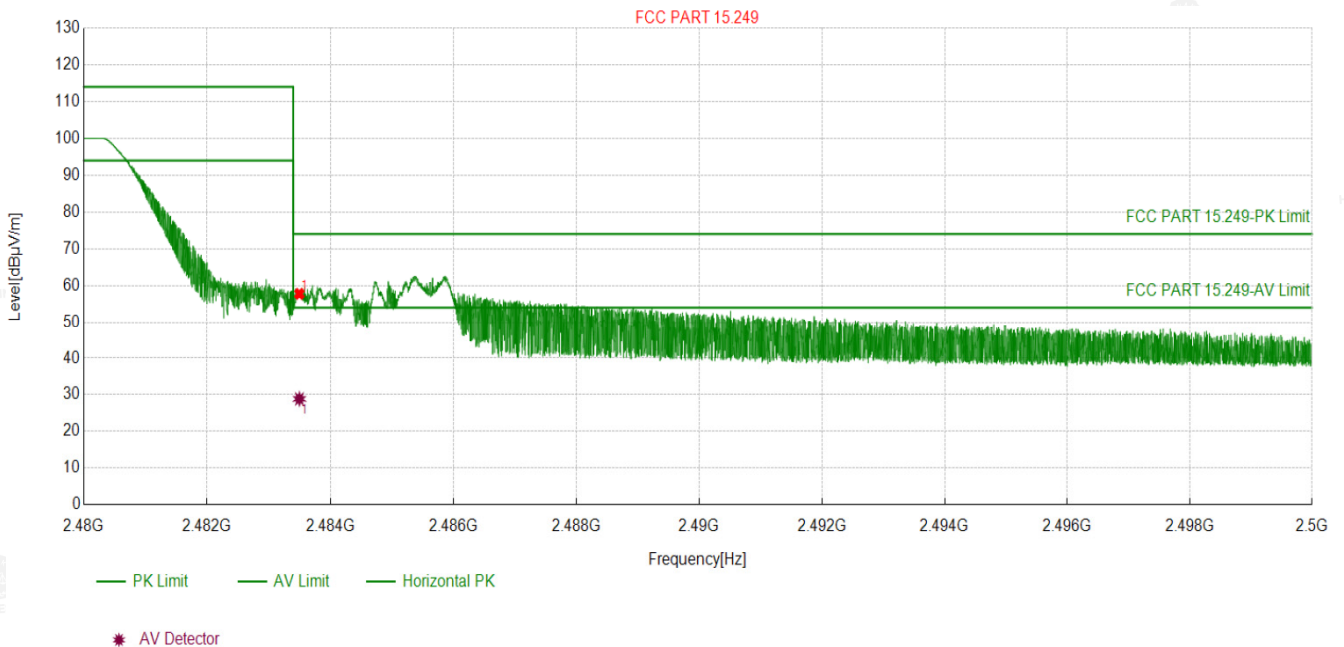
AV Final Data List

NO	Freq. [MHz]	Factor [dB]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2400.000	-14.43	31.69	54.00	22.31	150	325	Vertical

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor;
Margin = Limit – Level

Operation Mode: TX CH High (2480MHz)

Antenna polarity: Horizontal



Suspected Data List

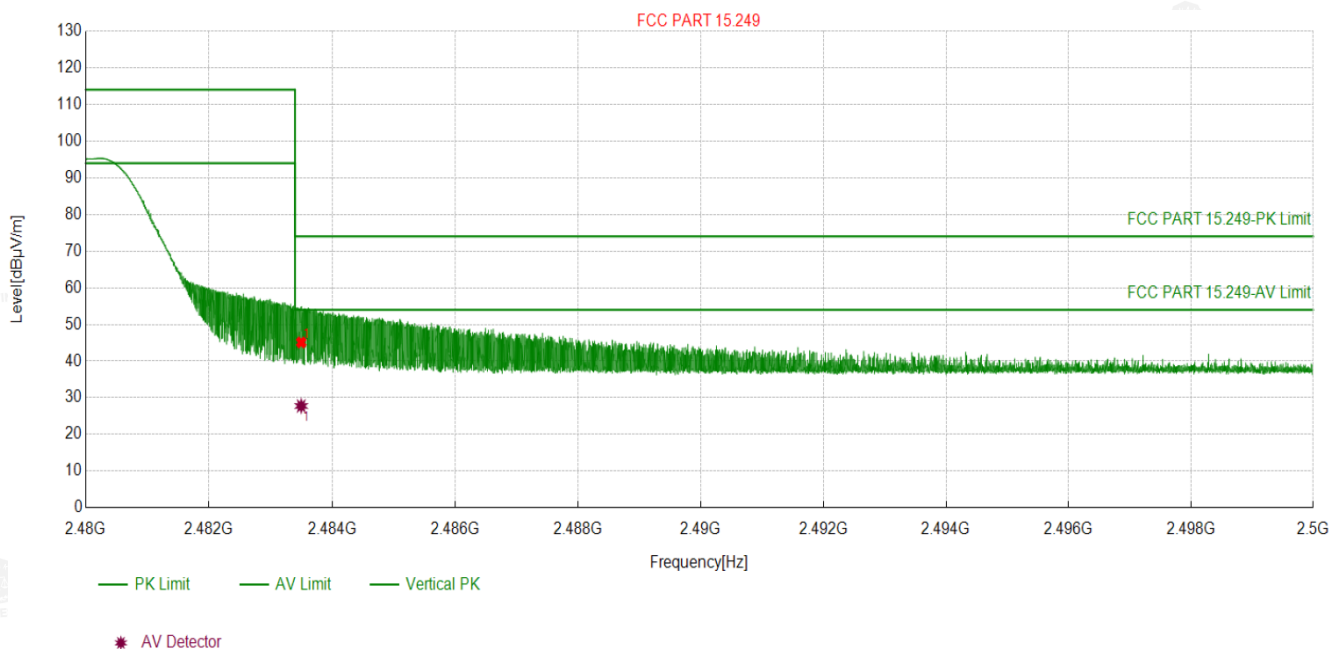
NO.	Freq. [MHz]	Reading [dBμV/m]	PK Level [dBμV/m]	Factor [dB]	PK Limit [dBμV/m]	PK Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2483.500	72.31	57.76	-14.55	74.00	16.24	150	62	Horizontal

AV Final Data List

NO	Freq. [MHz]	Factor [dB]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2483.500	-14.55	28.87	54.00	25.13	150	62	Horizontal

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Limit – Level

Antenna polarity: Vertical



Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV/m]	PK Level [dBμV/m]	Factor [dB]	PK Limit [dBμV/m]	PK Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2483.500	59.66	45.11	-14.55	74.00	28.89	150	41	Vertical

AV Final Data List

NO	Freq. [MHz]	Factor [dB]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2483.500	-14.55	27.76	54.00	26.24	150	41	Vertical

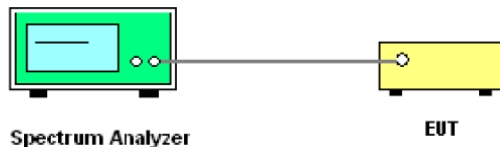
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor;
Margin = Limit – Level

Note: When the test results of Peak Detected below the limits of Average Detected, the Average Detected is not need completed. For example: Top Channel at Fundamental 73.16dBuV/m(PK Value) <93.98(AV Limit), at harmonic 53.20 dBuV/m(PK Value) <54 dBuV/m(AV Limit), the Average Detected not need to completed.



6. Occupied Bandwidth Measurement

6.1 Test Setup



6.2 Test Procedure

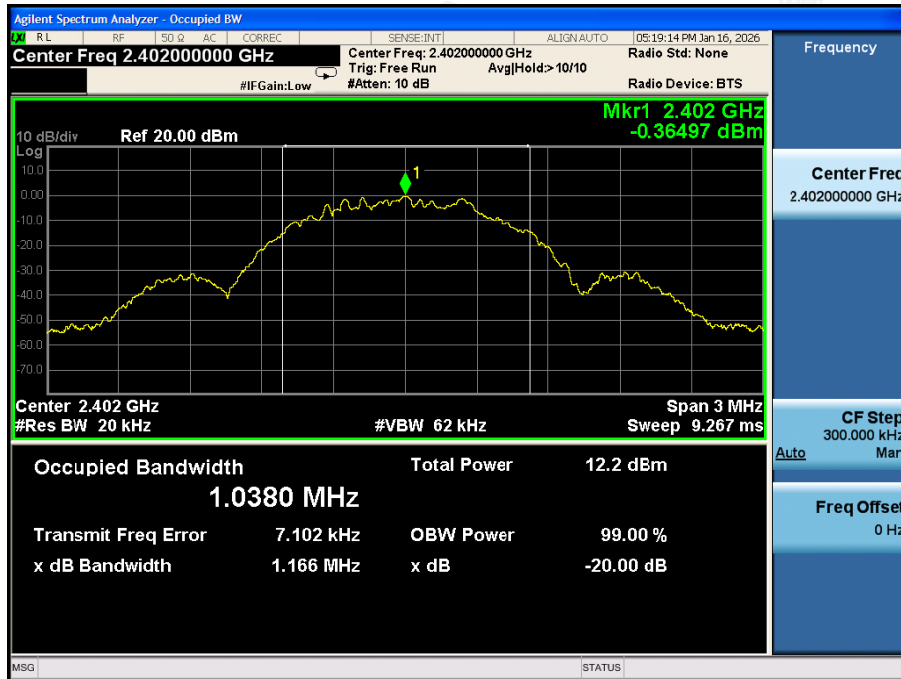
1. According to the follow Test-setup, keep the relative position between the artificial antenna and the EUT.
2. Set to the maximum power setting and enable the EUT transmit continuously.
3. Use the following spectrum analyzer settings for 20dB Bandwidth measurement.
Span = approximately 2 to 3 times the 20 dB bandwidth, centered on a Transmitting channel;
RBW = 1% to 5% of the Occupied Bandwidth; VBW = 3RBW; Sweep = auto; Detector function = peak;
Trace = max hold.
4. Measure and record the results in the test report.

6.3 Test Result

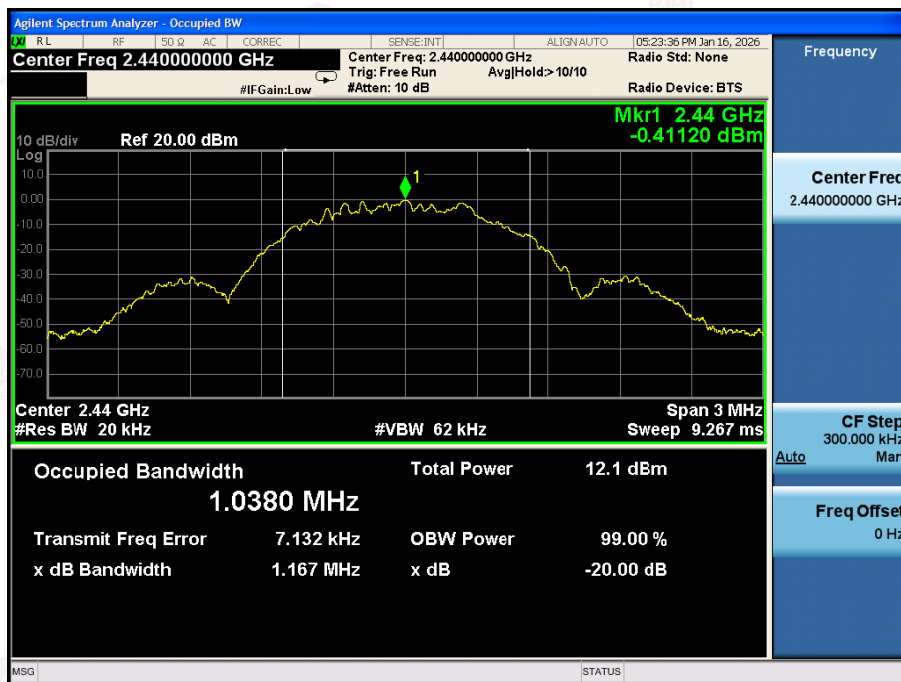
PASS

Test Rate	Frequency	20dB Bandwidth (MHz)	Result
1M	2402 MHz	1.166	PASS
	2440 MHz	1.167	PASS
	2480 MHz	1.163	PASS
2M	2402 MHz	2.160	PASS
	2440 MHz	2.161	PASS
	2480 MHz	2.162	PASS

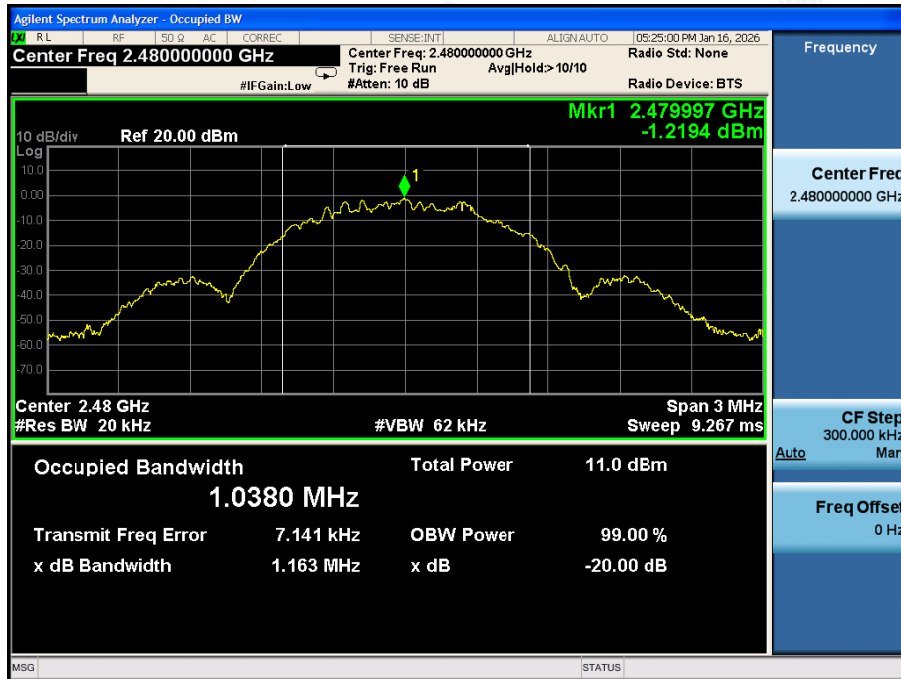
1M CH:2402MHz



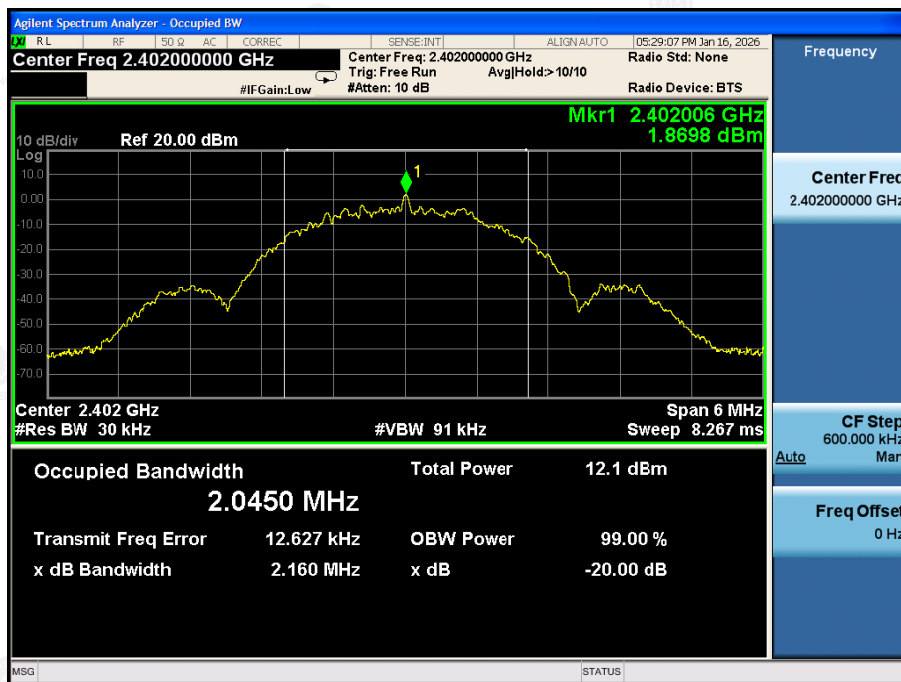
1M CH:2440MHz



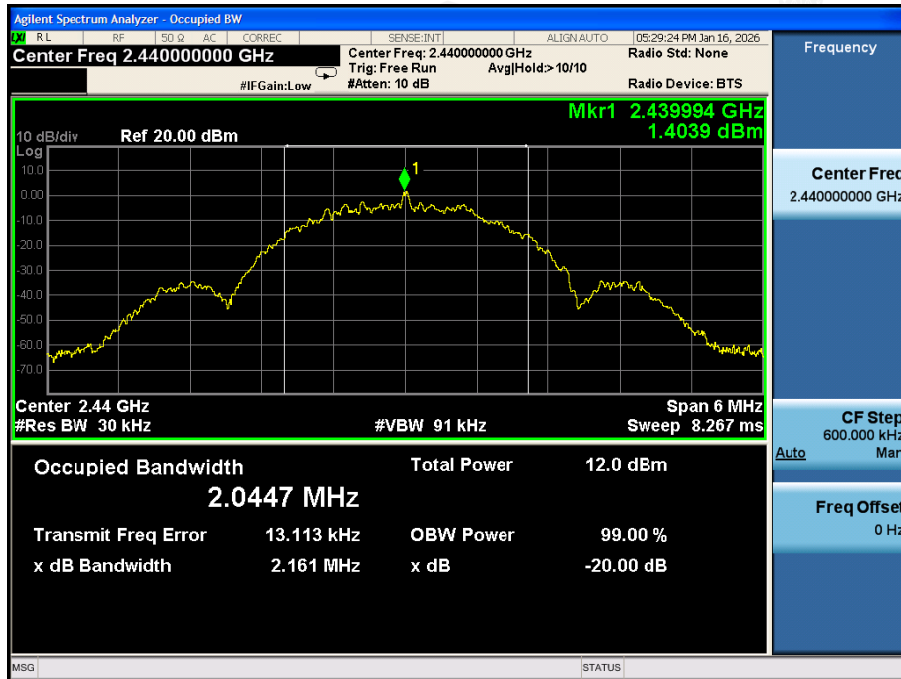
1M CH:2480MHz



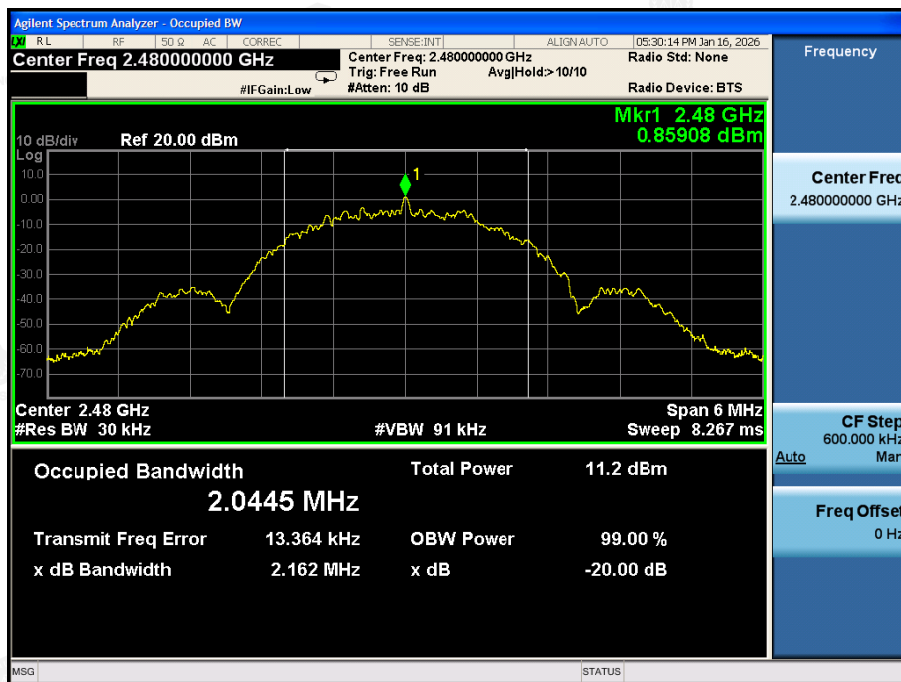
2M CH:2402MHz



2M CH:2440MHz



2M CH:2480MHz



7. Antenna Requirement

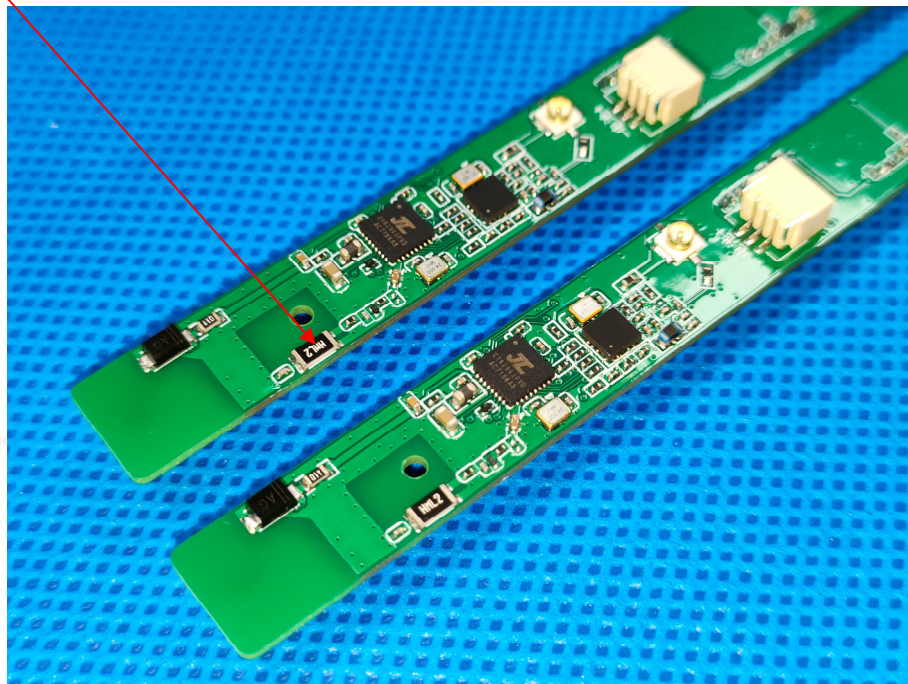
Standard Applicable

For intentional device, according to FCC 47 CFR Section 15.203, 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.

Antenna Connected Construction

The antenna used in this product is a Ceramic Antenna, is a permanently attached antenna on the PCB. It conforms to the standard requirements. The directional gains of antenna used for transmitting is 1.78dBi.

Antenna

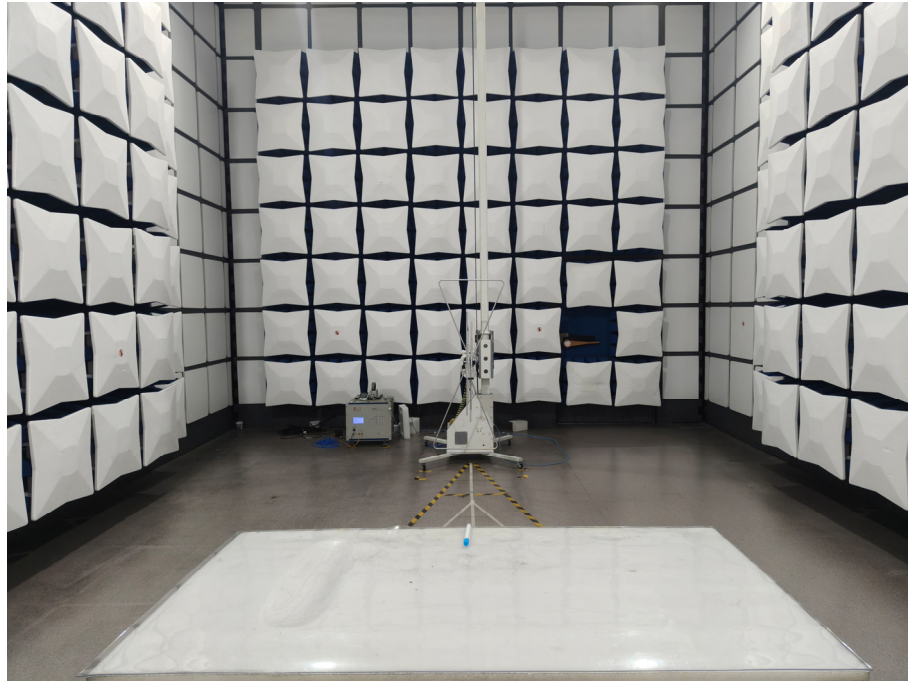




HUAKE TESTING

8. Test Setup Photos of the EUT

Radiated Emission



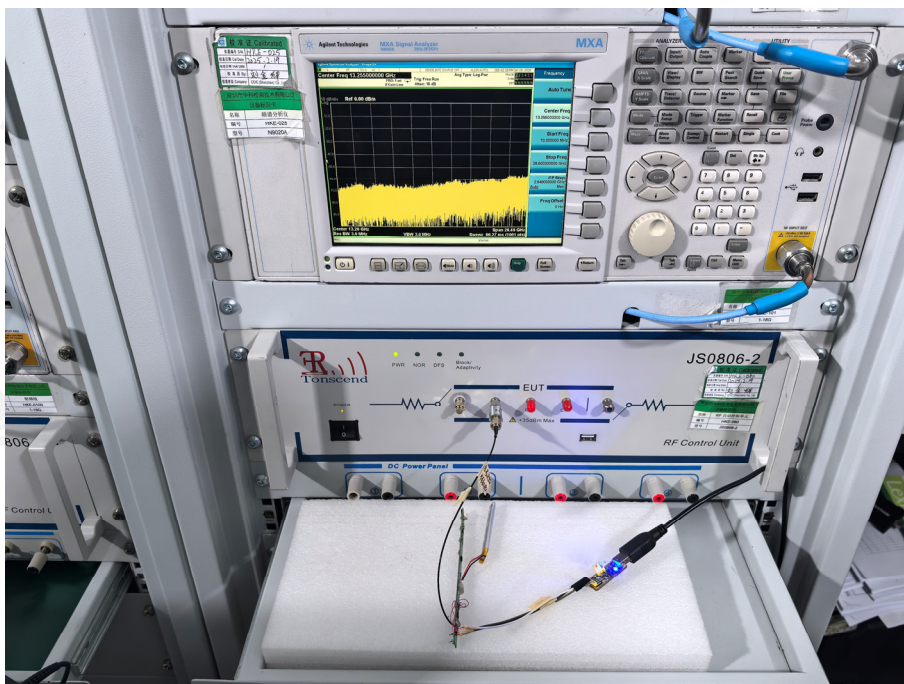
The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 15 days only. The document is issued by Shenzhen HUAKE Testing Technology Co., Ltd., this document cannot be reproduced except in full with our prior written permission.

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AC Conducted Emission



RF Conducted Emission





HUAKE TESTING

9. Photos of the EUT

Reference to the report: ANNEX A of external photos and ANNEX B of internal photos.

-----End of test report-----