

8.4 UNWANTED EMISSIONS IN NON-RESTRICTED FREQUENCY BANDS

8.4.1 Applicable Standard

According to FCC Part 15.247(d) and KDB 558074 D01 15.247 Meas Guidance v05r02

8.4.2 Conformance Limit

According to FCC Part 15.247(d):

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB.

8.4.3 Test Configuration

Test according to clause 7.1 radio frequency test setup 1

8.4.4 Test Procedure

The transmitter output (antenna port) was connected to the spectrum analyzer

■ Reference level measurement

Establish a reference level by using the following procedure:

Set instrument center frequency to DTS channel center frequency.

Set the span to = 1.5 times the DTS bandwidth.

Set the RBW = 100 kHz.

Set the VBW $\geq 3 \times$ RBW.

Set Detector = peak.

Set Sweep time = auto couple.

Set Trace mode = max hold.

Allow trace to fully stabilize.

Use the peak marker function to determine the maximum PSD level.

Note that the channel found to contain the maximum PSD level can be used to establish the reference level.

■ Emission level measurement

Set the center frequency and span to encompass frequency range to be measured.

Set the RBW = 100 kHz.

Set the VBW = 300 kHz.

Set Detector = peak

Sweep time = auto couple.

Trace mode = max hold.

Allow trace to fully stabilize.

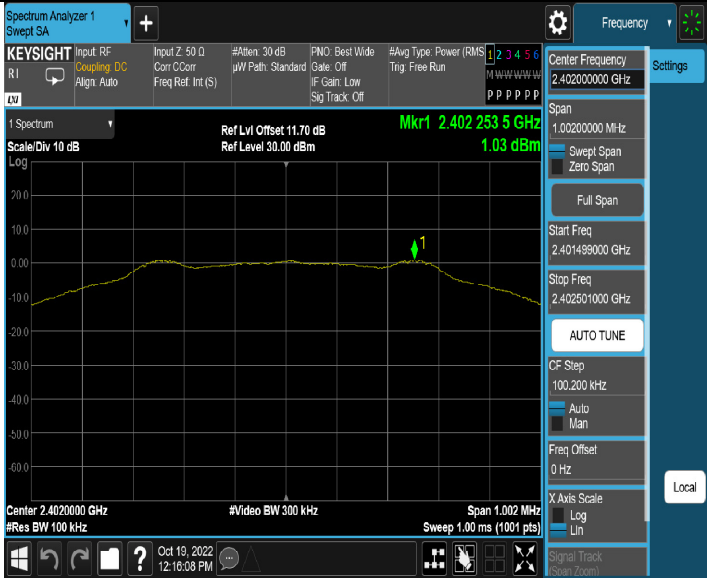
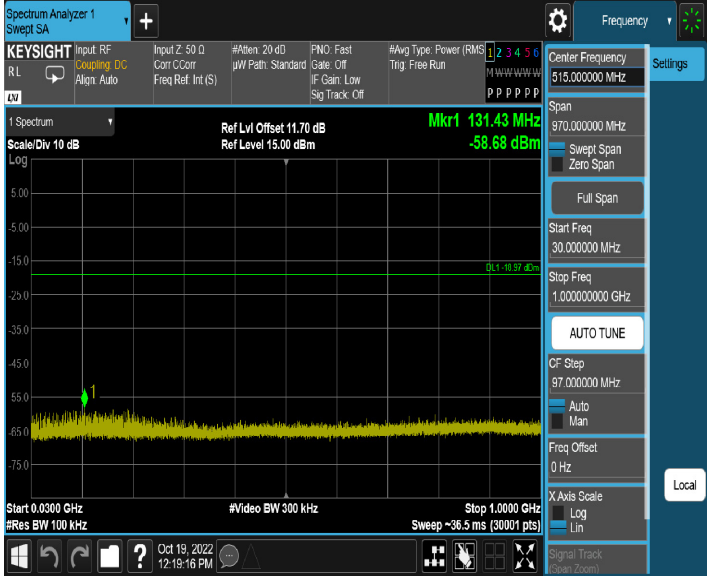
Use the peak marker function to determine the maximum amplitude level.

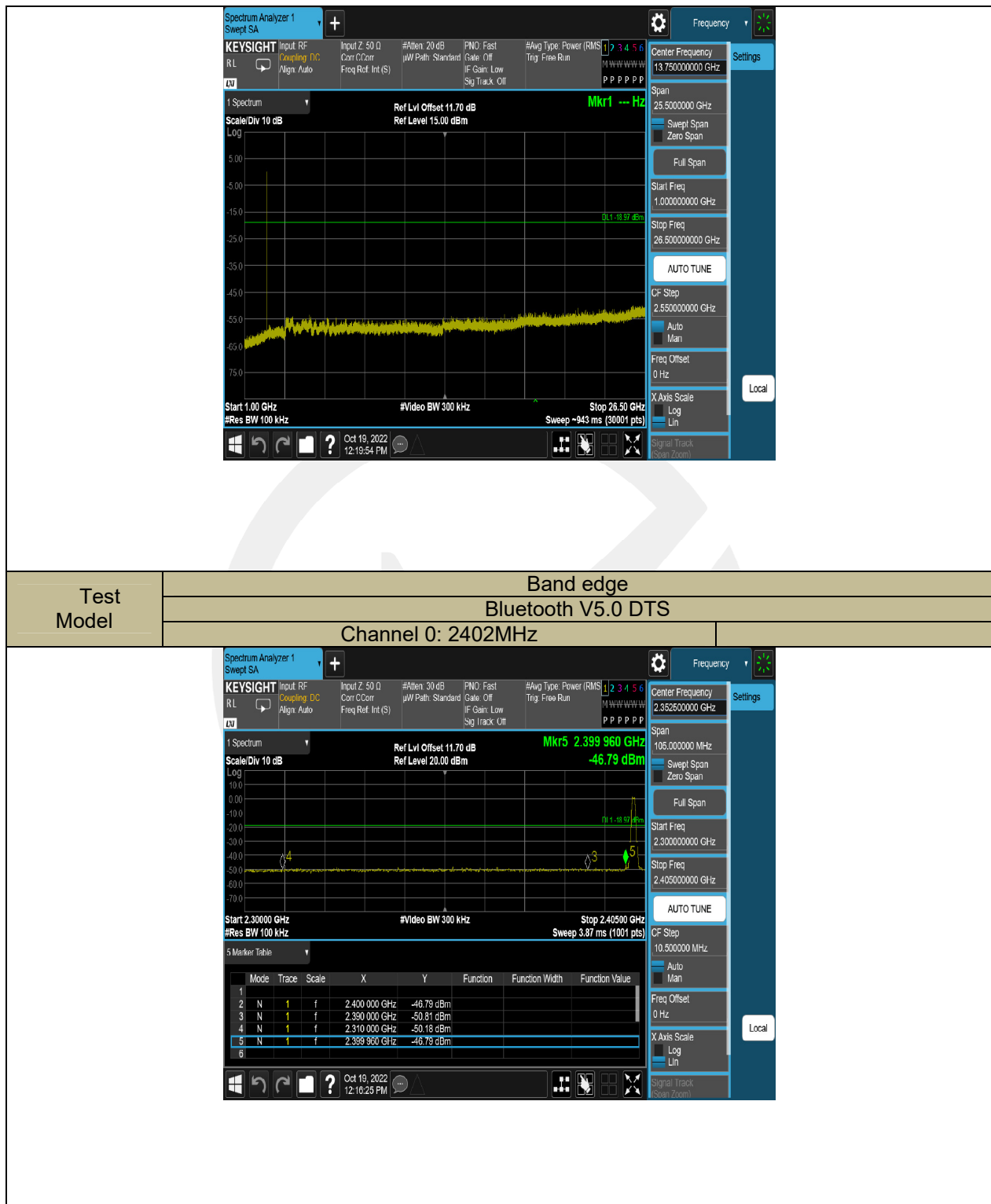
Ensure that the amplitude of all unwanted emissions outside of the authorized frequency band (excluding restricted frequency bands) are attenuated by at least the minimum requirements. Report the three highest emissions relative to the limit.

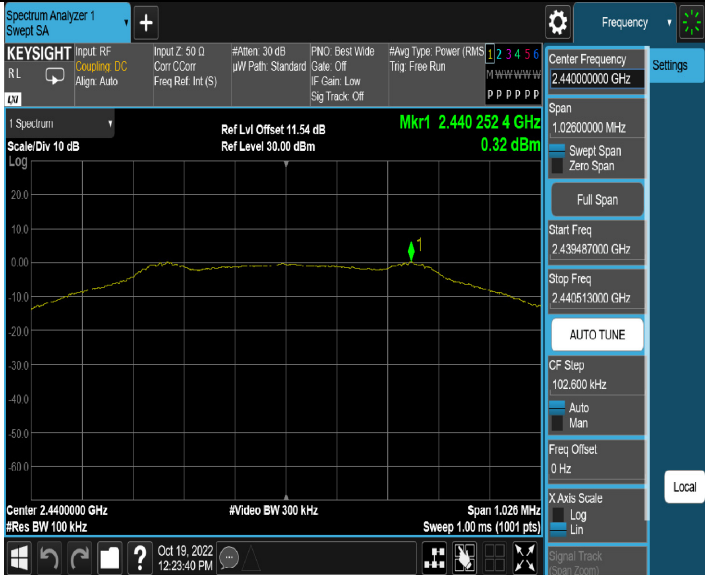
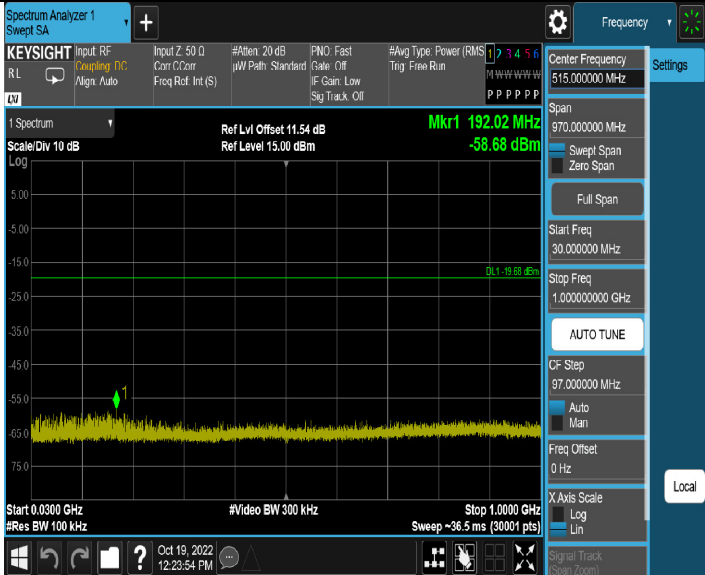
8.4.5 Test Results

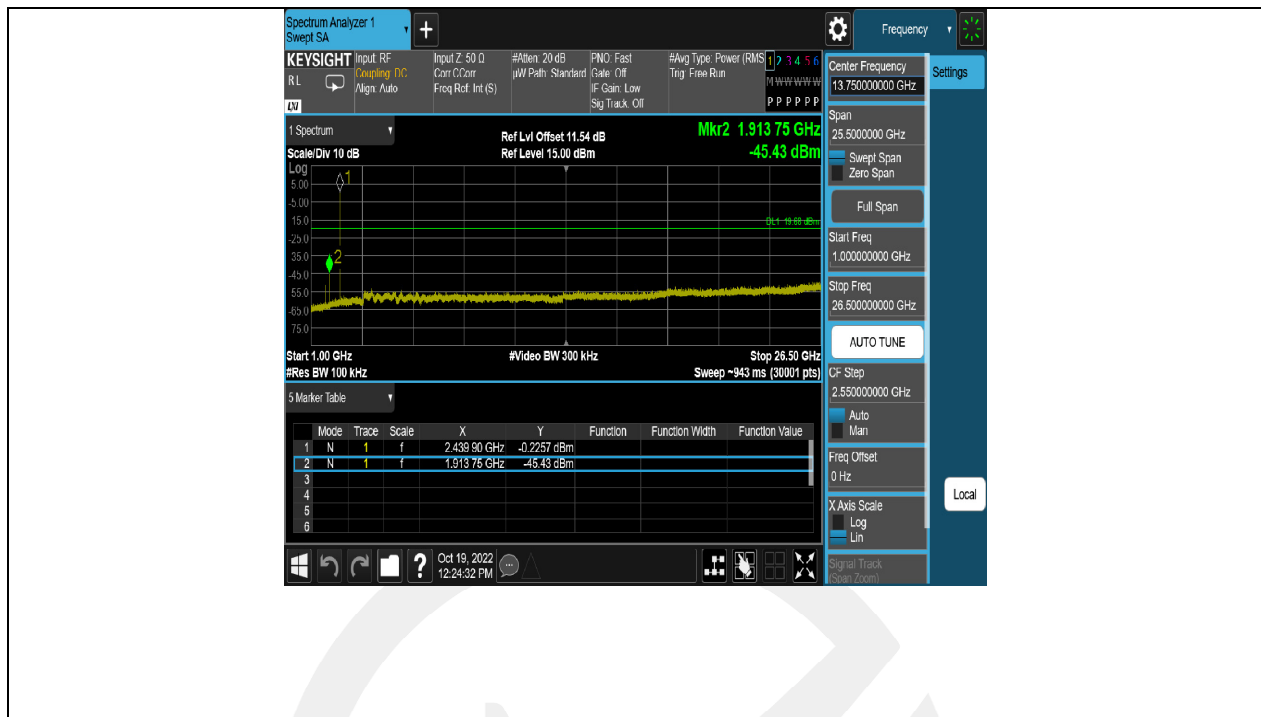
Temperature:	25.5° C
Relative Humidity:	55%
ATM Pressure:	1011 mbar

Bluetooth V5.0 DTS mode have been tested, and the worst result was report as below:

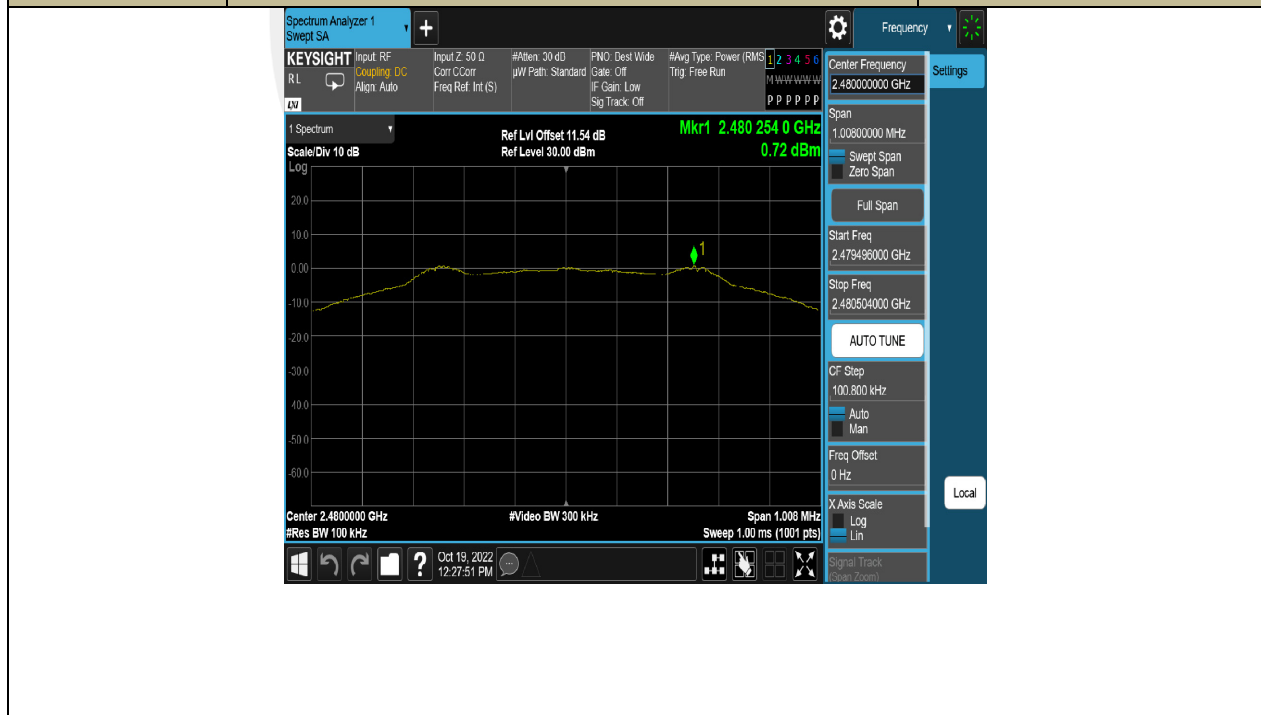
Test Model	PSD(Power Spectral Density) RBW=100kHz	
	Bluetooth V5.0 DTS	
	Channel 0: 2402MHz	
		
Test Model	Unwanted Emissions in non-restricted frequency bands	
	Bluetooth V5.0 DTS	
	Channel 0: 2402MHz	
		

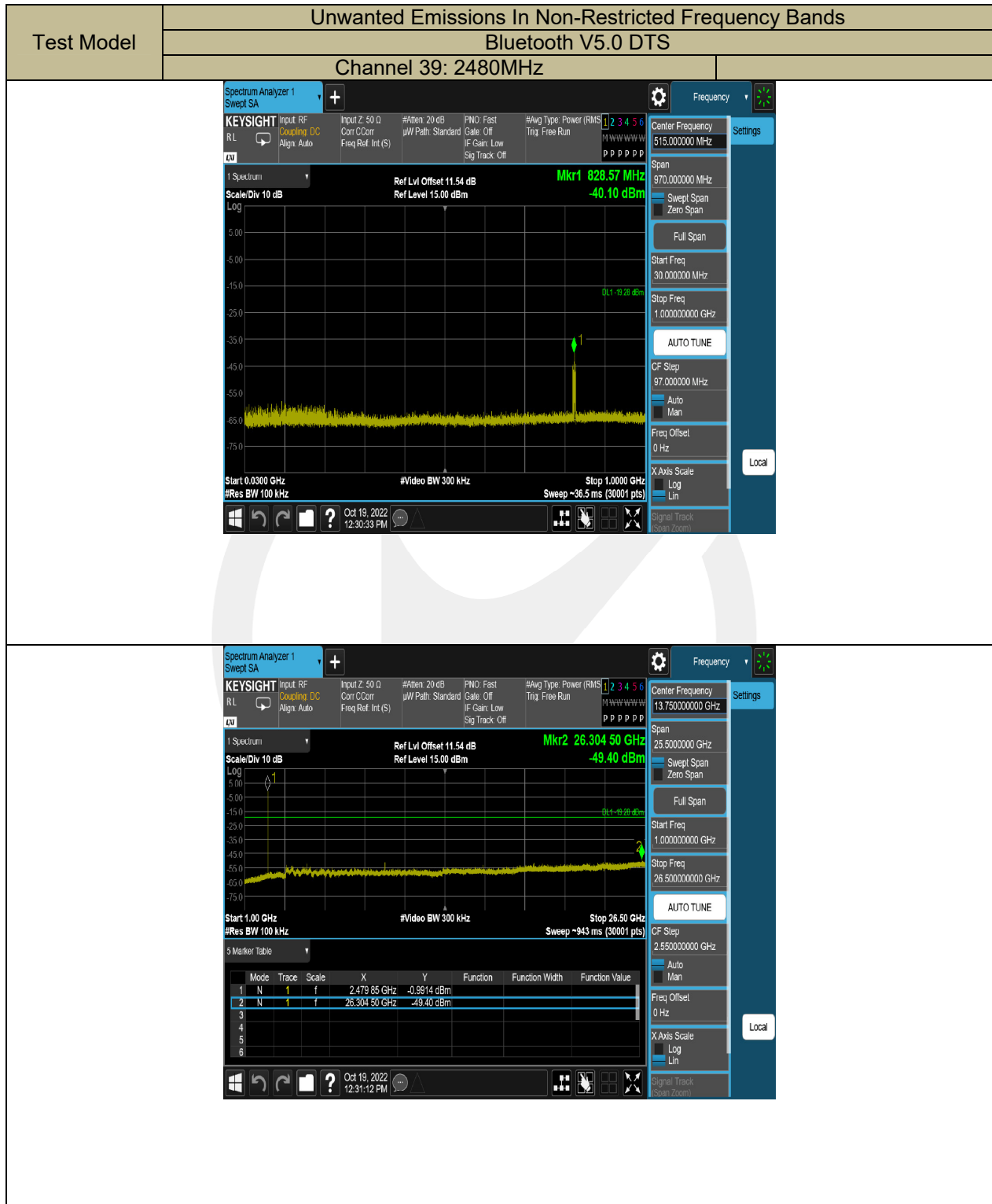


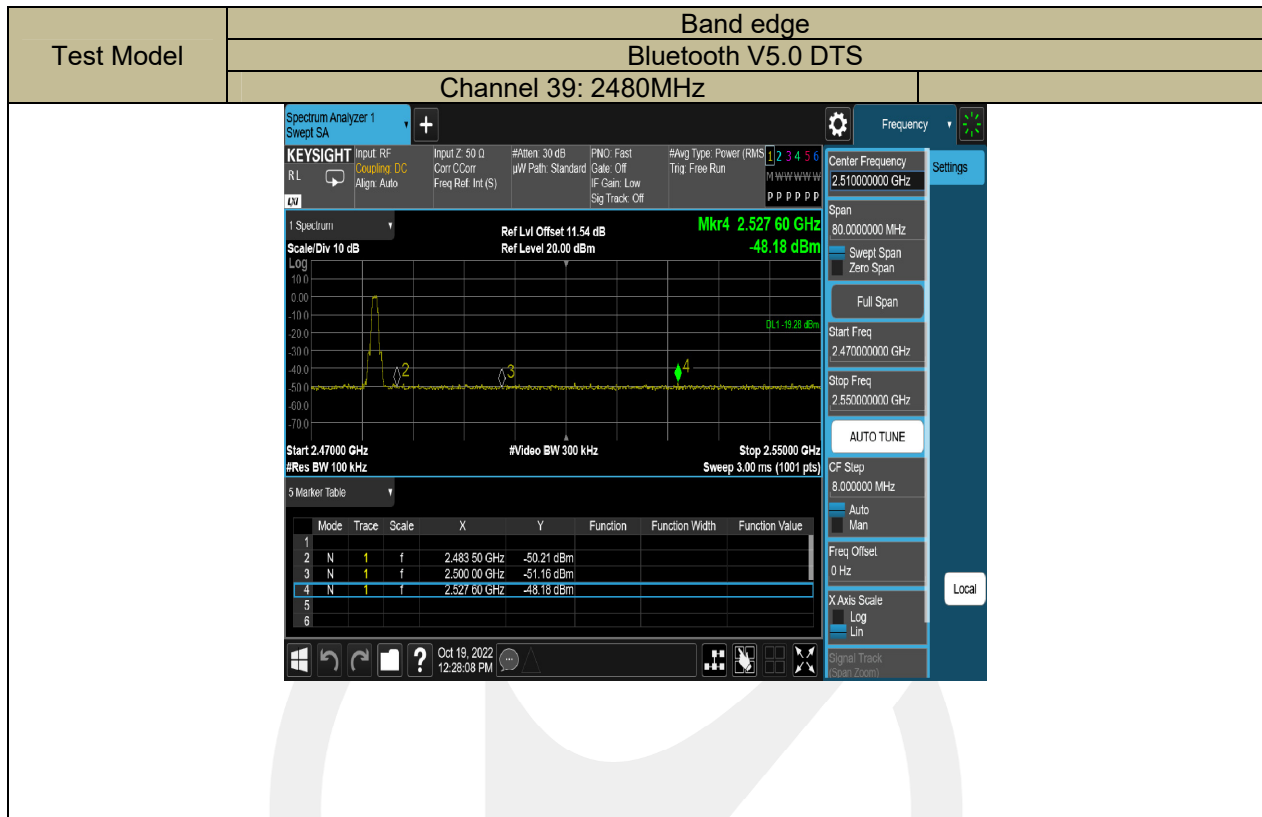
Test Model	PSD(Power Spectral Density) RBW=100kHz	
	Bluetooth V5.0 DTS	
	Channel 19: 2440MHz	
		
Test Model	Unwanted Emissions In Non-Restricted Frequency Bands	
	Bluetooth V5.0 DTS	
	Channel 19: 2440MHz	
		



est Model	PSD(Power Spectral Density) RBW=100kHz	
	Bluetooth V5.0 DTS	
	Channel 19: 2480MHz	







8.5 RADIATED SPURIOUS EMISSION

8.5.1 Applicable Standard

According to FCC Part 15.247(d) and 15.209 and KDB 558074 D01 15.247 Meas Guidance v05r02

8.5.2 Conformance Limit

According to FCC Part 15.247(d): radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

According to FCC Part 15.205, Restricted bands

MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
10.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	(2)
13.36-13.41			

According to FCC Part 15.209, the level of any transmitter spurious emission in Restricted bands shall not exceed the level of the emission specified in the following table

Restricted Frequency(MHz)	Field Strength (μV/m)	Field Strength (dBμV/m)	Measurement Distance
0.009-0.490	2400/F(KHz)	20 log (uV/m)	300
0.490-1.705	24000/F(KHz)	20 log (uV/m)	30
1.705-30	30	29.5	30
30-88	100	40	3
88-216	150	43.5	3
216-960	200	46	3
Above 960	500	54	3

8.5.3 Test Configuration

Test according to clause 7.2 radio frequency test setup 2

8.5.4 Test Procedure

This test is required for any spurious emission that falls in a Restricted Band, as defined in Section 15.205. It must be performed with the highest gain of each type of antenna proposed for use with the EUT. Use the following spectrum analyzer settings:

The EUT was placed on a turn table which is 0.8m above ground plane.

Maximum procedure was performed on the highest emissions to ensure EUT compliance.

Span = wide enough to fully capture the emission being measured

RBW = 1 MHz for $f \geq 1$ GHz (1GHz to 25GHz), 100 kHz for $f < 1$ GHz (30MHz to 1GHz)

VBW $\geq$ RBW

Sweep = auto

Detector function = peak

Trace = max hold

Follow the guidelines in ANSI C63.10-2013 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. A pre-amp and a high pass filter are required for this test, in order to provide the measuring system with sufficient sensitivity. Allow the trace to stabilize. The peak reading of the emission, after being corrected by the antenna factor, cable loss, pre-amp gain, etc., is the peak field strength, which must comply with the limit specified in Section 15.35(b). Submit this data.

Now set the VBW to 10 Hz, while maintaining all of the other instrument settings. This peak level, once corrected, must comply with the limit specified in Section 15.209. If the dwell time per channel of the hopping signal is less than 100 ms, then the reading obtained with the 10 Hz VBW may be further adjusted by a "duty cycle correction factor", derived from $20\log(\text{dwell time}/100 \text{ ms})$, in an effort to demonstrate compliance with the 15.209 limit. Submit this data.

Repeat above procedures until all frequency measured was complete.

8.5.5 Test Results

Temperature:	24° C
Relative Humidity:	55%
ATM Pressure:	1011 mbar

■ Spurious Emission below 30MHz (9KHz to 30MHz)

Freq. (MHz)	Ant.Pol. H/V	Emission Level(dBuV/m)		Limit 3m(dBuV/m)		Over(dB)	
		PK	AV	PK	AV	PK	AV
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Note: the amplitude of spurious emission that is attenuated by more than 20dB below the permissible limit has no need to be reported.

Distance extrapolation factor = $40\log(\text{Specific distance}/\text{test distance})$ (dB);

Limit line = Specific limits(dBuV) + distance extrapolation factor

■ Spurious Emission Above 1GHz (1GHz to 25GHz)

Bluetooth V5.0 DTS mode have been tested, and the worst result was report as below:

Test mode: BLE Frequency: Channel 0: 2402MHz

Freq. (MHz)	Ant.Pol. H/V	Emission Level(dBuV/m)		Limit 3m(dBuV/m)		Over(dB)	
		PK	AV	PK	AV	PK	AV
4852.971	V	47.14	32.62	74.00	54.00	-26.86	-21.38
11021.80	V	56.18	42.06	74.00	54.00	-17.82	-11.94
14497.29	V	59.77	44.27	74.00	54.00	-14.23	-9.73
4805.361	H	56.00	41.47	74.00	54.00	-18.00	-12.53
7206.241	H	59.73	45.77	74.00	54.00	-14.27	-8.23
14398.68	H	61.37	46.82	74.00	54.00	-12.63	-7.18

Test mode: BLE Frequency: Channel 19: 2440MHz

Freq. (MHz)	Ant.Pol. H/V	Emission Level(dBuV/m)		Limit 3m(dBuV/m)		Over(dB)	
		PK	AV	PK	AV	PK	AV
4880.176	V	53.53	39.72	74.00	54.00	-20.47	-14.28
7321.864	V	57.02	42.59	74.00	54.00	-16.98	-11.41
14327.26	V	61.36	47.99	74.00	54.00	-12.64	-6.01
4880.176	H	57.57	42.52	74.00	54.00	-16.43	-11.48
7321.864	H	55.76	40.11	74.00	54.00	-18.24	-13.89
14385.07	H	62.11	48.03	74.00	54.00	-11.89	-5.97

Test mode: BLE Frequency: Channel 39: 2480MHz

Freq. (MHz)	Ant.Pol. H/V	Emission Level(dBuV/m)		Limit 3m(dBuV/m)		Over(dB)	
		PK	AV	PK	AV	PK	AV
4958.392	V	53.62	40.35	74.00	54.00	-20.38	-13.65
7440.888	V	57.16	42.77	74.00	54.00	-16.84	-11.23
11001.40	V	56.52	41.79	74.00	54.00	-17.48	-12.21
4958.392	H	55.83	40.27	74.00	54.00	-18.17	-13.73
7440.888	H	56.31	42.10	74.00	54.00	-17.69	-11.90
14164.03	H	61.63	46.85	74.00	54.00	-12.37	-7.15

- Note:**
- (1) All Readings are Peak Value (VBW=3MHz) and Average Value (VBW=10Hz).
 - (2) Emission Level= Reading Level+Correct Factor +Cable Loss.
 - (3) Correct Factor= Ant_F + Cab_L - Preamp
 - (4) The reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

■ Spurious Emission in Restricted Band 2310-2390MHz and 2483.5-2500MHz

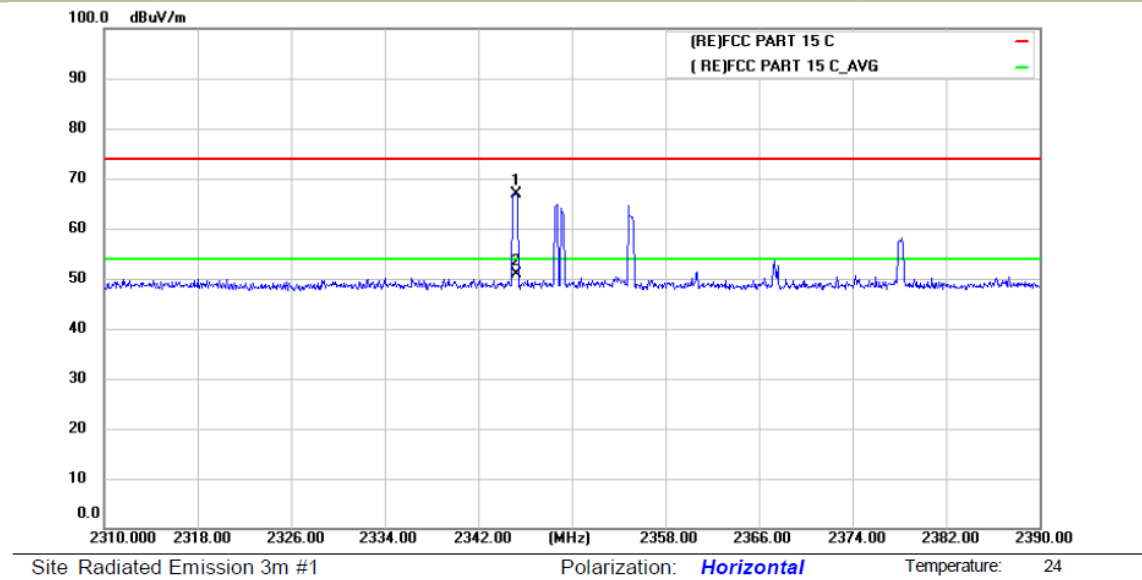
Frequency (MHz)	Polarity	PK(dBuV/m) (VBW=3MHz)	Limit 3m (dBuV/m)	AV(dBuV/m) (VBW=10Hz)	Limit 3m (dBuV/m)
2311.648	H	66.96	74.00	50.88	54.00
2319.804	V	51.56	74.00	37.46	54.00

Frequency (MHz)	Polarity	PK(dBuV/m) (VBW=3MHz)	Limit 3m (dBuV/m)	AV(dBuV/m) (VBW=10Hz)	Limit 3m (dBuV/m)
2484.170	H	54.74	74.00	40.05	54.00
2483.757	V	50.69	74.00	35.84	54.00

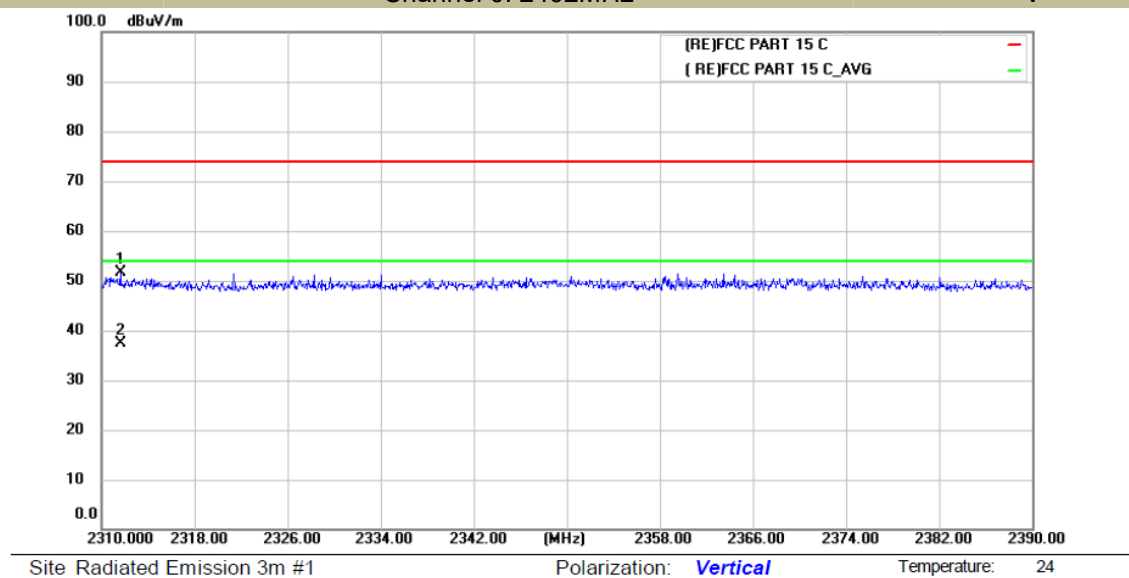
- Note:**
- (1) All Readings are Peak Value (VBW=3MHz) and Average Value (VBW=10Hz).
 - (2) Emission Level= Reading Level+Correct Factor +Cable Loss.
 - (3) Correct Factor= Ant_F + Cab_L - Preamp
 - (4) The reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

All the modulation modes were tested, the data of the worst mode are described in the following table

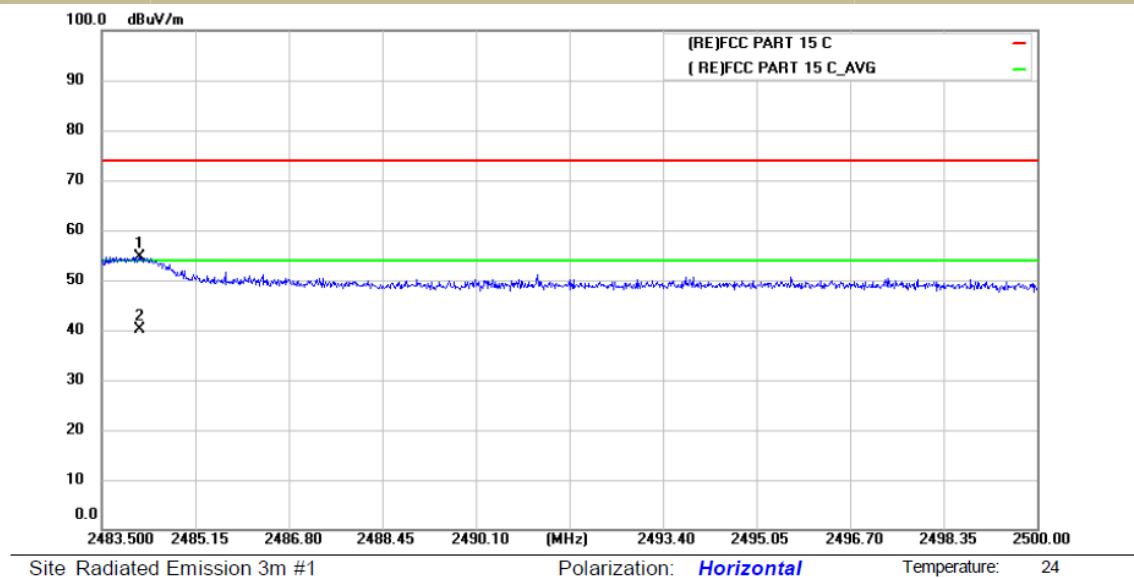
Test Model	Spurious Emission in Restricted Band 2310-2390MHz		
	Bluetooth V5.0 DTS		
	Channel 0: 2402MHz		H



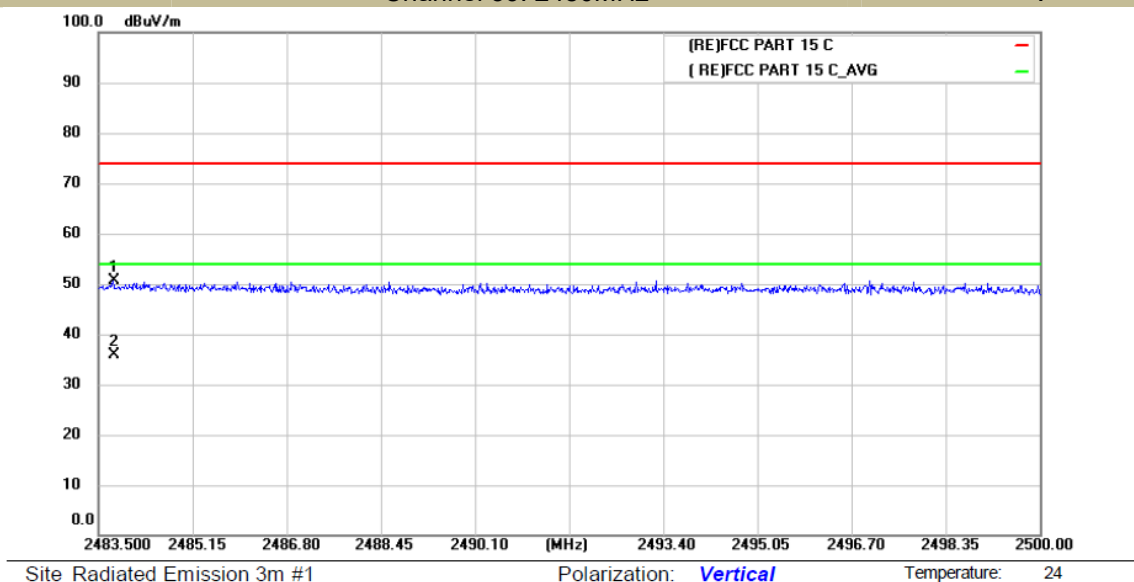
Test Model	Spurious Emission in Restricted Band 2310-2390MHz		
	Bluetooth V5.0 DTS		
	Channel 0: 2402MHz		V



Test Model	Spurious Emission in Restricted Band 2483.5-2500MHz		
	Bluetooth V5.0 DTS		
	Channel 39: 2480MHz		H



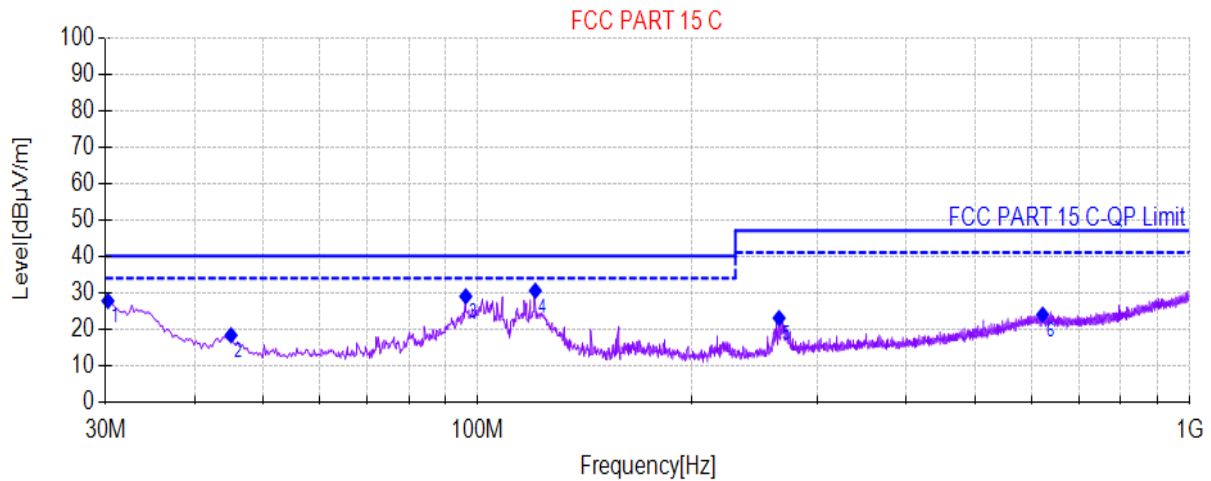
Test Model	Spurious Emission in Restricted Band 2483.5-2500MHz		
	Bluetooth V5.0 DTS		
	Channel 39: 2480MHz		V



■ Spurious Emission below 1GHz (30MHz to 1GHz)

All modes have been tested, and the worst result recorded was report as below:

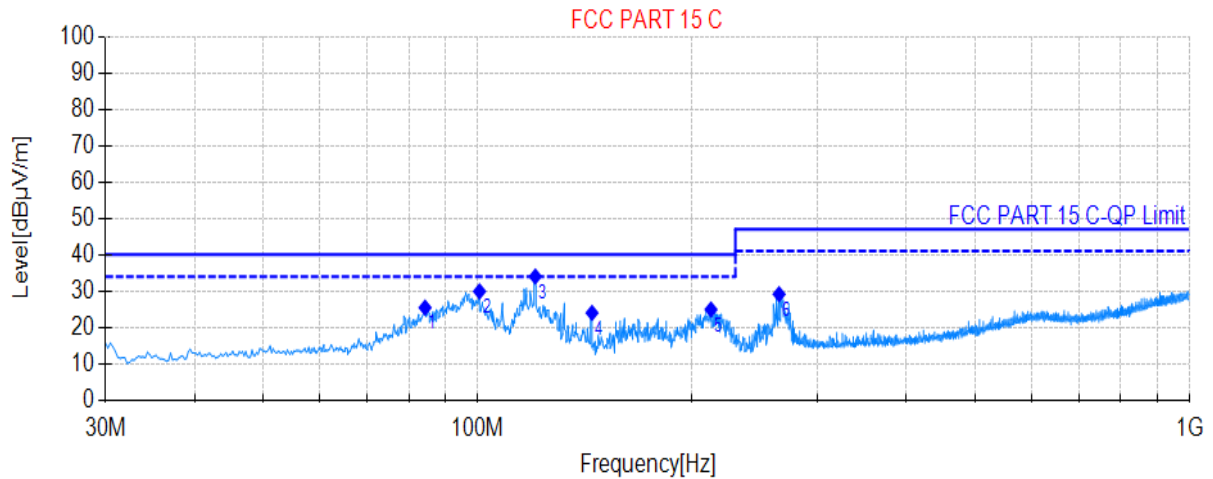
Project Information			
Mode:	TX 2402MHz	Voltage:	AC 120/60Hz
Environment:	Temp: 21℃; Humi:58%	Engineer:	Jackson Xue



Final Data List

NO.	Freq. [MHz]	QP Reading [dBμV/m]	Factor [dB]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity	Verdict
1	30.243	52.21	-24.50	27.71	40.00	12.29	100	138	Vertical	Pass
2	45.035	41.76	-23.48	18.28	40.00	21.72	100	50	Vertical	Pass
3	96.203	53.55	-24.59	28.96	40.00	11.04	100	78	Vertical	Pass
4	120.453	54.58	-24.07	30.51	40.00	9.49	100	258	Vertical	Pass
5	264.983	44.22	-21.22	23.00	47.00	24.00	100	88	Vertical	Pass
6	621.458	36.63	-12.71	23.92	47.00	23.08	100	39	Vertical	Pass

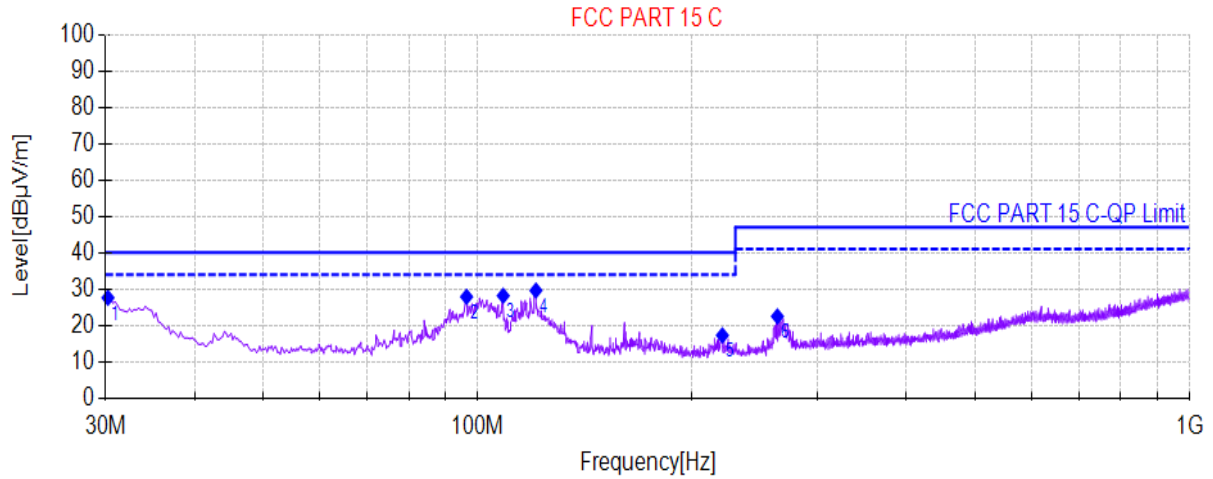
Project Information			
Mode:	TX 2402MHz	Voltage:	AC 120/60Hz
Environment:	Temp: 21℃; Humi:58%	Engineer:	Jackson Xue



Final Data List

NO.	Freq. [MHz]	QP Reading [dBμV/m]	Factor [dB]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity	Verdict
1	84.320	50.54	-25.10	25.44	40.00	14.56	200	217	Horizontal	Pass
2	100.568	53.74	-23.82	29.92	40.00	10.08	200	269	Horizontal	Pass
3	120.453	58.08	-24.07	34.01	40.00	5.99	200	129	Horizontal	Pass
4	144.703	49.93	-25.94	23.99	40.00	16.01	200	156	Horizontal	Pass
5	212.603	47.76	-22.83	24.93	40.00	15.07	100	210	Horizontal	Pass
6	264.983	50.35	-21.22	29.13	47.00	17.87	100	12	Horizontal	Pass

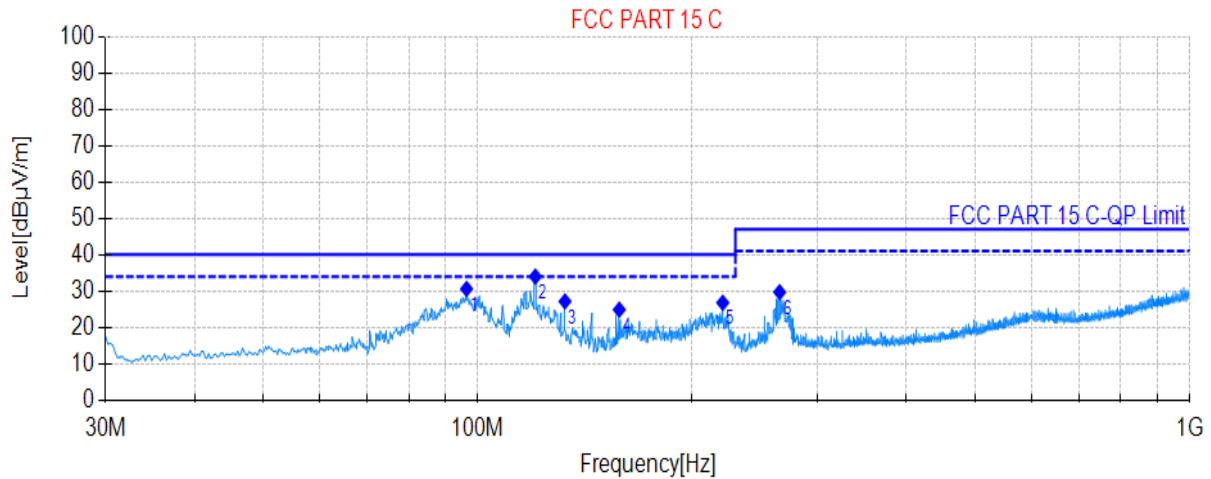
Project Information			
Mode:	TX 2440MHz	Voltage:	AC 120/60Hz
Environment:	Temp: 21℃; Humi:58%	Engineer:	Jackson Xue



Final Data List

NO.	Freq. [MHz]	QP Reading [dBμV/m]	Factor [dB]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity	Verdict
1	30.243	52.09	-24.50	27.59	40.00	12.41	100	88	Vertical	Pass
2	96.445	52.41	-24.55	27.86	40.00	12.14	100	135	Vertical	Pass
3	108.570	51.62	-23.46	28.16	40.00	11.84	100	276	Vertical	Pass
4	120.695	53.68	-24.09	29.59	40.00	10.41	100	246	Vertical	Pass
5	220.605	39.83	-22.58	17.25	40.00	22.75	100	167	Vertical	Pass
6	263.528	43.73	-21.26	22.47	47.00	24.53	100	99	Vertical	Pass

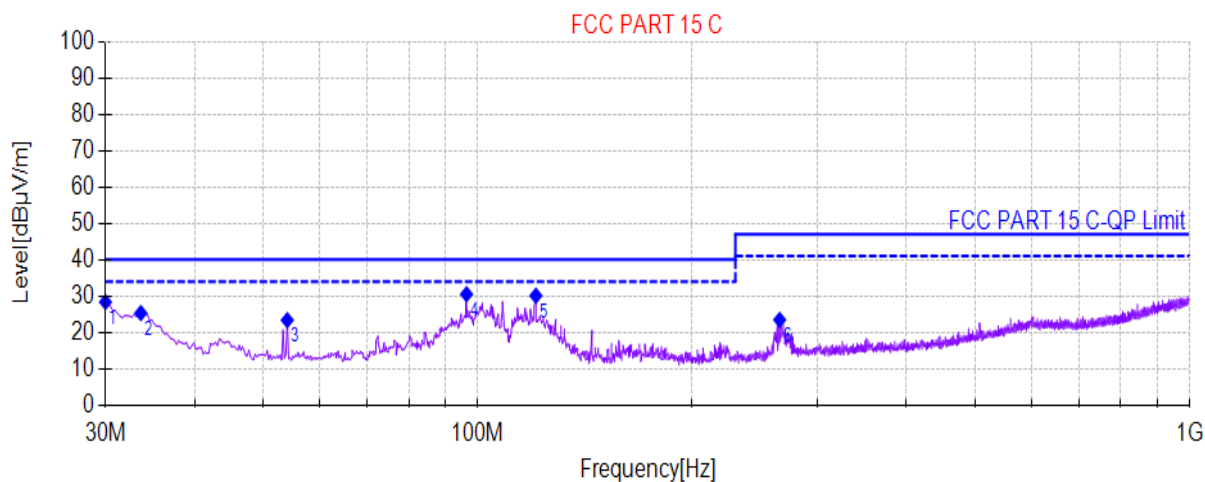
Project Information			
Mode:	TX 2440MHz	Voltage:	AC 120/60Hz
Environment:	Temp: 21℃; Humi:58%	Engineer:	Jackson Xue



Final Data List

NO.	Freq. [MHz]	QP Reading [dBμV/m]	Factor [dB]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity	Verdict
1	96.445	55.16	-24.55	30.61	40.00	9.39	200	250	Horizontal	Pass
2	120.453	58.07	-24.07	34.00	40.00	6.00	200	112	Horizontal	Pass
3	132.578	52.32	-25.17	27.15	40.00	12.85	200	139	Horizontal	Pass
4	158.040	49.99	-25.10	24.89	40.00	15.11	100	228	Horizontal	Pass
5	220.848	49.36	-22.57	26.79	40.00	13.21	100	190	Horizontal	Pass
6	265.468	50.91	-21.20	29.71	47.00	17.29	100	356	Horizontal	Pass

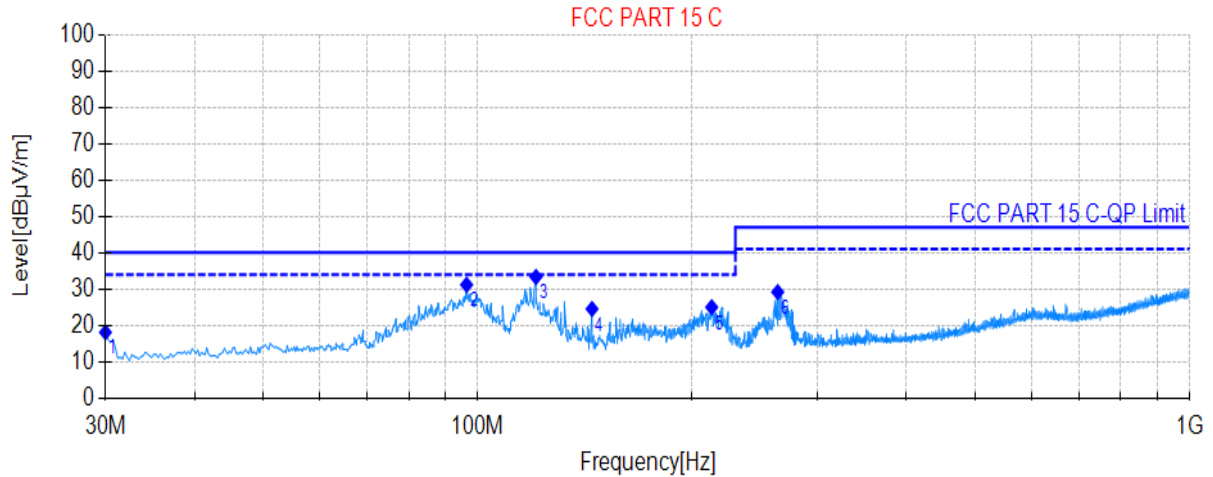
Project Information			
Mode:	TX 2480MHz	Voltage:	AC 120/60Hz
Environment:	Temp: 21℃; Humi:58%	Engineer:	Jackson Xue



Final Data List

NO.	Freq. [MHz]	QP Reading [dBμV/m]	Factor [dB]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity	Verdict
1	30.000	52.89	-24.52	28.37	40.00	11.63	100	269	Vertical	Pass
2	33.638	49.52	-24.20	25.32	40.00	14.68	100	127	Vertical	Pass
3	54.008	45.73	-22.37	23.36	40.00	16.64	100	94	Vertical	Pass
4	96.445	55.06	-24.55	30.51	40.00	9.49	100	138	Vertical	Pass
5	120.695	54.19	-24.09	30.10	40.00	9.90	100	264	Vertical	Pass
6	265.468	44.65	-21.20	23.45	47.00	23.55	100	113	Vertical	Pass

Project Information			
Mode:	TX 2480MHz	Voltage:	AC 120/60Hz
Environment:	Temp: 21℃; Humi:58%	Engineer:	Jackson Xue



Final Data List

NO.	Freq. [MHz]	QP Reading [dBμV/m]	Factor [dB]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity	Verdict
1	30.000	42.62	-24.52	18.10	40.00	21.90	200	288	Horizontal	Pass
2	96.445	55.73	-24.55	31.18	40.00	8.82	200	250	Horizontal	Pass
3	120.695	57.43	-24.09	33.34	40.00	6.66	200	302	Horizontal	Pass
4	144.703	50.46	-25.94	24.52	40.00	15.48	200	133	Horizontal	Pass
5	213.088	47.79	-22.81	24.98	40.00	15.02	100	174	Horizontal	Pass
6	263.770	50.44	-21.25	29.19	47.00	17.81	100	6	Horizontal	Pass

8.6 CONDUCTED EMISSIONS TEST

8.6.1 Applicable Standard

According to FCC Part 15.207(a)

8.6.2 Conformance Limit

Frequency(MHz)	Conducted Emission Limit	
	Quasi-peak	Average
0.15-0.5	66-56	56-46
0.5-5.0	56	46
5.0-30.0	60	50

Note: 1. The lower limit shall apply at the transition frequencies
2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

8.6.3 Test Configuration

Test according to clause 7.3 conducted emission test setup

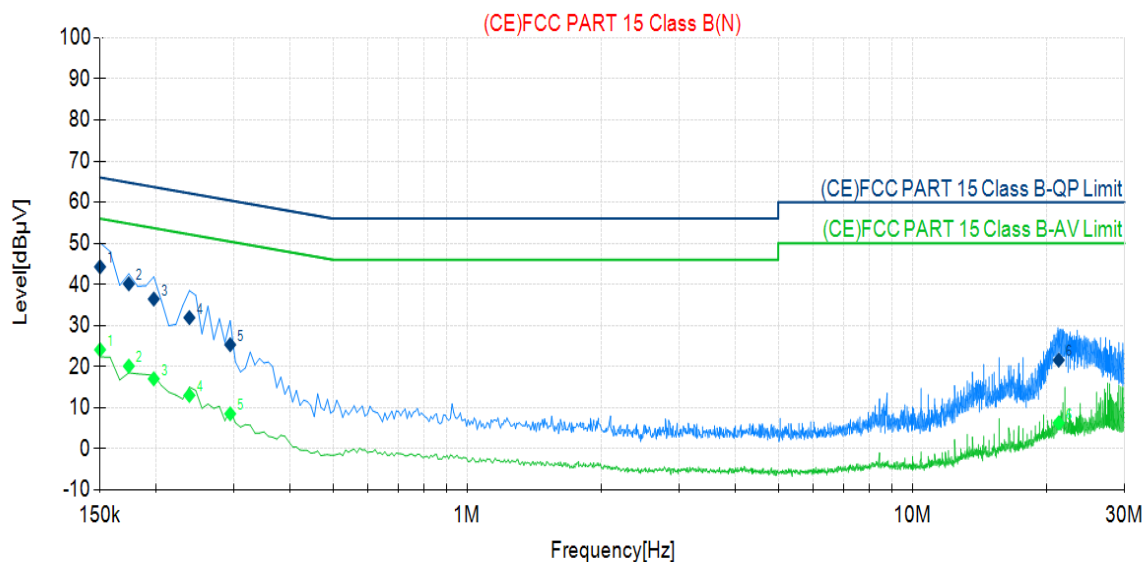
8.6.4 Test Procedure

The EUT was placed on a table which is 0.8 m above ground plane.
Maximum procedure was performed on the highest emissions to ensure EUT compliance.
Repeat above procedures until all frequency measured were complete.

8.6.5 Test Results

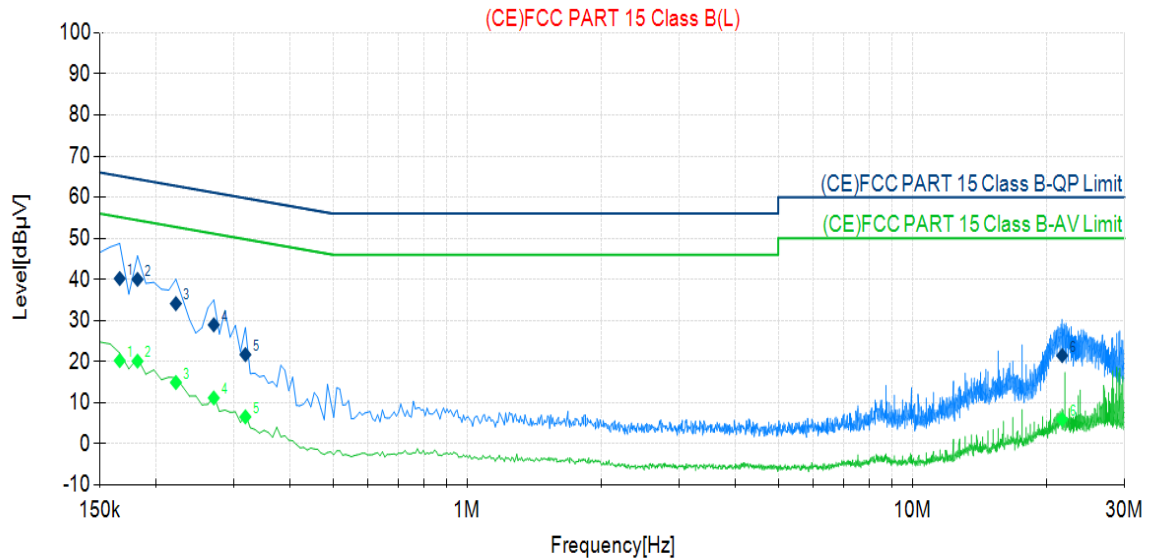
Pass.

Project Information			
Mode:	TX	Voltage:	AC 120V/60Hz
Environment:	Temp: 24℃; Humi:58%	Engineer:	Sen Song



Final Data List											
NO.	Freq. [MHz]	Factor [dB]	QP Reading [dBμV]	QP Value [dBμV]	QP Limit [dBμV]	QP Margin [dB]	AV Reading [dBμV]	AV Value [dBμV]	AV Limit [dBμV]	AV Margin [dB]	Verdict
1	0.150	10.50	33.77	44.27	66.00	21.73	13.61	24.11	56.00	31.89	Pass
2	0.174	10.48	29.66	40.14	64.77	24.63	9.64	20.12	54.77	34.65	Pass
3	0.198	10.46	25.97	36.43	63.69	27.26	6.57	17.03	53.69	36.66	Pass
4	0.238	10.45	21.46	31.91	62.17	30.26	2.56	13.01	52.17	39.16	Pass
5	0.294	10.43	14.90	25.33	60.41	35.08	-1.90	8.53	50.41	41.88	Pass
6	21.334	10.91	10.66	21.57	60.00	38.43	-4.60	6.31	50.00	43.69	Pass

Project Information			
Mode:	TX	Voltage:	AC 120V/60Hz
Environment:	Temp: 24℃; Humi:58%	Engineer:	Sen Song



Final Data List											
NO.	Freq. [MHz]	Factor [dB]	QP Reading [dBμV]	QP Value [dBμV]	QP Limit [dBμV]	QP Margin [dB]	AV Reading [dBμV]	AV Value [dBμV]	AV Limit [dBμV]	AV Margin [dB]	Verdict
1	0.166	10.50	29.70	40.20	65.16	24.96	9.73	20.23	55.16	34.93	Pass
2	0.182	10.50	29.50	40.00	64.39	24.39	9.60	20.10	54.39	34.29	Pass
3	0.222	10.49	23.62	34.11	62.74	28.63	4.42	14.91	52.74	37.83	Pass
4	0.270	10.48	18.47	28.95	61.12	32.17	0.67	11.15	51.12	39.97	Pass
5	0.318	10.46	11.24	21.70	59.76	38.06	-3.90	6.56	49.76	43.20	Pass
6	21.718	10.82	10.64	21.46	60.00	38.54	-4.89	5.93	50.00	44.07	Pass

8.7 ANTENNA APPLICATION

8.7.1 Antenna Requirement

Standard	Requirement
FCC CRF Part 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. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of §15.211, §15.213, §15.217, §15.219, or §15.221. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with §15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

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. And according to FCC 47 CFR Section 15.247 (b), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

8.7.2 Result

PASS.

The EUT has 1 antenna: a PCB Antenna gain is -5.45 dBi;

Note: ☒ Antenna use a permanently attached antenna which is not replaceable.
☐ Not using a standard antenna jack or electrical connector for antenna replacement
☐ The antenna has to be professionally installed (please provide method of installation)

which in accordance to section 15.203, please refer to the internal photos.

*** End of Report ***

声 明 Statement

1. 本报告无授权批准人签字及“检验报告专用章”无效;

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Objections shall be raised within 20 days from the date receiving the report.