



TEST REPORT

Application No.: DNT2408270280R1215-02280
Applicant: Leili Technology Industrial (Shantou) Co., Ltd.
Address of Applicant: Industrial Zone, West Side of Rongnan Road, Toufen Community, Fengxiang Street, Chenghai District, Shantou City, China
EUT Description: Remote control car
Model No.: BC1043
FCC ID: 2BKQ4-BC1043
Power Supply: DC 3V
Trade Mark: /
Standards: 47 CFR FCC Part 2, Subpart J
47 CFR Part 15, Subpart C
ANSI C63.10: 2013
Date of Receipt: 2024/9/12
Date of Test: 2024/9/13 to 2024/9/18
Date of Issue: 2024/9/27
Test Result: **PASS**

Prepared By: Wayne Lin (Testing Engineer)

Reviewed By: Pencils Chen (Project Engineer)

Approved By: Hense Chen (Manager)



Note: If there is any objection to the results in this report, please submit a written inquiry to the company within 15 days from the date of receiving the report. The test report is effective only with both signature and specialized stamp, and is issued by the company in accordance with the requirements of the "Conditions of Issuance of Test Reports" printed in the attached page. Unless otherwise stated, the results presented in this report only apply to the samples tested this time. Partial reproduction of this report is not allowed unless approved by the company in writing.

Dongguan DN Testing Co., Ltd.

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Report Revise Record

Report Version	Revise Time	Issued Date	Valid Version	Notes
V2.0	/	Sep.27, 2024	Valid	Original Report



1 Test Summary

Test Item	Standard Section	Test Result
Antenna Requirement	15.203	PASS
20dB Occupied Bandwidth	15.215	PASS
Duty Cycle	N/A	PASS
Field Strength	15.249(a)	PASS
Radiated Spurious Emissions And Band Edge	15.205, 15.209, 15.249(a)(c)(d)(e), 15.35(b)	PASS
AC Power Line Conducted Emissions	15.207	N/A



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2 General Information

2.1 Test Location

Company:	Dongguan DN Testing Co., Ltd
Address:	No. 1, West Fourth Street, South Xinfu Road, Wusha Liwu, Chang ' an Town, Dongguan City, Guangdong P.R.China
Test engineer:	Wayne Lin



2.2 General Description of EUT

Manufacturer:	Leili Technology Industrial (Shantou) Co., Ltd.
Address of Manufacturer:	Industrial Zone, West Side of Rongnan Road, Toufen Community, Fengxiang Street, Chenghai District, Shantou City, China
EUT Description:	Remote control car
Test Model No.:	BC1043
Additional Model(s):	/
Power Supply	DC 3V
Chip Type:	2M216
Serial number:	PR2408270280R1215
Trade Mark:	/
Hardware Version:	V1.0
Software Version:	V1.0
Operation Frequency:	2410MHz-2470MHz
Type of Modulation:	GFSK
Sample Type:	Prototype production
Antenna Type:	☐ External, ☒ Integrated
Antenna Ports	☒ Ant 1, ☐ Ant 2, ☐ Ant 3
Antenna Gain*:	☒ Provided by applicant
	0dBi
RF Cable*:	☒ Provided by applicant
	0.5dB(0.6~1GHz); 0.8dB(1.4~2GHz); 1.0dB(2.1~2.7GHz); 1.5dB(3~4GHz); 1.8dB(4.4~6GHz);

Remark:

*All models are just color differences, motherboard, PCB circuit board, chip, electronic components, appearance is all the same.

*Since the above data and/or information is provided by the applicant relevant results or conclusions of this report are only made for these data and/or information, DNT is not responsible for the authenticity, integrity and results of the data and information and/or the validity of the conclusion.



2.3 Power Setting of Test Software

Software Name	N/A		
Frequency(MHz)	2410	2442	2470
Setting	Default	Default	Default

2.4 Test Environment and Mode

Operating Environment:	
Temperature:	20~25.0 °C
Humidity:	45~56 % RH
Atmospheric Pressure:	101.0~101.30 KPa
Test mode:	
Transmitting mode:	Keep the EUT in transmitting mode with all kind of modulation and all kind of data rate.

2.5 Channel List

Operation Frequency of each channel							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	2410.0	13	2454.0	25	2458.0		
2	2413.0	14	2457.0	26	2461.0		
3	2414.0	15	2458.0	27	2462.0		
4	2417.0	16	2461.0	28	2465.0		
5	2418.0	17	2462.0	29	2466.0		
6	2421.0	18	2465.0	30	2469.0		
7	2422.0	19	2466.0	31	2470.0		
8	2425.0	20	2449.0				
9	2426.0	21	2450.0				
10	2449.0	22	2453.0				
11	2450.0	23	2454.0				
12	2453.0	24	2457.0				

2.6 Description of Support Units

The EUT has been tested independent unit.



2.7 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

Lab A:

• **FCC, USA**

Designation Number: CN1348

• **A2LA (Certificate No. 7050.01)**

DONGGUAN DN TESTING CO., LTD.

• **Innovation, Science and Economic Development Canada**

DONGGUAN DN TESTING CO., LTD. EMC Laboratory has been recognized by ISED as an accredited testing laboratory. CAB identifier is CN0149.

IC#: 30755.

2.8 Measurement Uncertainty (95% confidence levels, k=2)

No.	Item	Measurement Uncertainty
1	Total RF power, conducted	$\pm 0.41\text{dB}$
2	RF power density, conducted	$\pm 1.96\text{dB}$

No.	Item	Measurement Uncertainty
1	Conduction Emission	$\pm 3.0\text{dB}$ (150kHz to 30MHz)
2	Radiated Emission	$\pm 4.8\text{dB}$ (Below 1GHz)
		$\pm 4.8\text{dB}$ (1GHz to 6GHz)
		$\pm 4.5\text{dB}$ (6GHz to 18GHz)
		$\pm 5.02\text{dB}$ (Above 18GHz)



2.9 Equipment List

For Connect EUT Antenna Terminal Test					
Description	Manufacturer	Model	Serial Number	Cal date	Due date
Signal Generator	Keysight	N5181A-6G	MY48180415	2023-10-25	2024-10-24
Signal Generator	Keysight	N5182B	MY57300617	2023-10-25	2024-10-24
Power supply	Keysight	E3640A	ZB2022656	2023-10-25	2024-10-24
Spectrum Analyzer	Aglient	N9010A	MY52221458	2023-10-25	2024-10-24
BT/WIFI Test Software	Tonscend	JS1120 V3.1.83	NA	NA	NA
RF Control Unit	Tonscend	JS0806-2	22F8060581	NA	NA
temperature and humidity box	SCOTEK	SCD-C40-80PRO	6866682020008	2023-10-25	2024-10-24

Test Equipment for Conducted Emission					
Description	Manufacturer	Model	Serial Number	Cal Date	Due Date
Receiver	R&S	ESCI3	101152	2023-10-24	2024-10-23
LISN	R&S	ENV216	102874	2023-10-24	2024-10-23
ISN	R&S	ENY81-CA6	1309.8590.03	2023-10-24	2024-10-23

Test Equipment for Radiated Emission(below 1000MHz)					
Description	Manufacturer	Model	Serial Number	Cal Date	Due Date
Receiver	R&S	ESR7	102497	2023-10-24	2024-10-23
Test Software	ETS-LINDGREN	TiLE-FULL	NA	NA	NA
RF Cable	ETS-LINDGREN	RFC-NMS-100-NMS-350-IN	NA	2023-10-24	2024-10-23
Log periodic antenna	ETS-LINDGREN	VULB 9168	01475	2023-10-24	2024-10-23
Pre-amplifier	Schwarzbeck	BBV9743B	00423	2023-10-24	2024-10-23
Single ring magnetic field ring antenna	ETS-LINDGREN	6502	6502	2023-10-24	2024-10-23



Test Equipment for Radiated Emission(Above 1000MHz)					
Description	Manufacturer	Model	Serial Number	Cal Date	Due Date
Frequency analyser	Keysight	N9010A	MY52221458	2023-10-24	2024-10-23
RF Cable	ETS-LINDGREN	RFC-NMS-100- NMS-350-IN	NA	2023-10-24	2024-10-23
Horn Antenna	ETS-LINDGREN	3117	00252567	2023-10-24	2024-10-23
Double ridged waveguide antenna	ETS-LINDGREN	3116C	00251780	2023-10-24	2024-10-23
Test Software	ETS-LINDGREN	TILE-FULL	NA	NA	NA
Pre-amplifier	ETS-LINDGREN	3117-PA	252567	2023-10-24	2024-10-23
Pre-amplifier	ETS-LINDGREN	3116C-PA	251780	2023-10-24	2024-10-23

2.10 Assistant equipment used for test

Code	Equipment	Manufacturer	Model No.	Equipment No.
1	1	Adapter	Chenyang	ICSO1



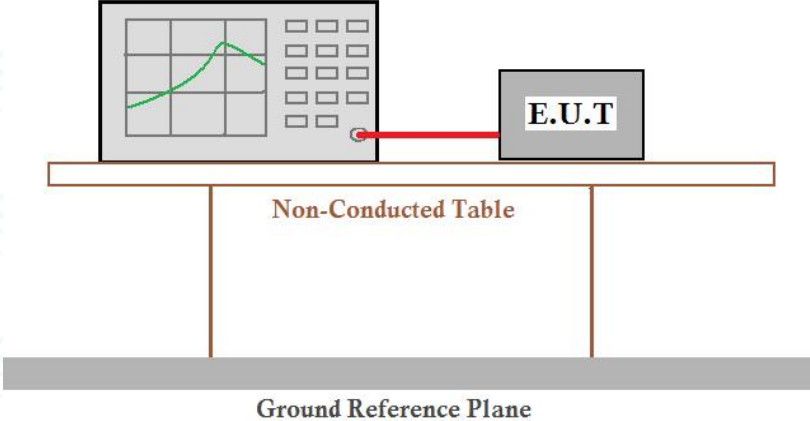
3 Test results and Measurement Data

3.1 Antenna requirements

Standard requirement:	47 CFR Part 15C Section 15.203 /247(c)
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, 15.221, or §15.236. 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.	
The antenna is welded on the main PCB and no consideration of replacement. The best case gain of the antenna is 0dBi.	



3.2 20dB Occupied Bandwidth

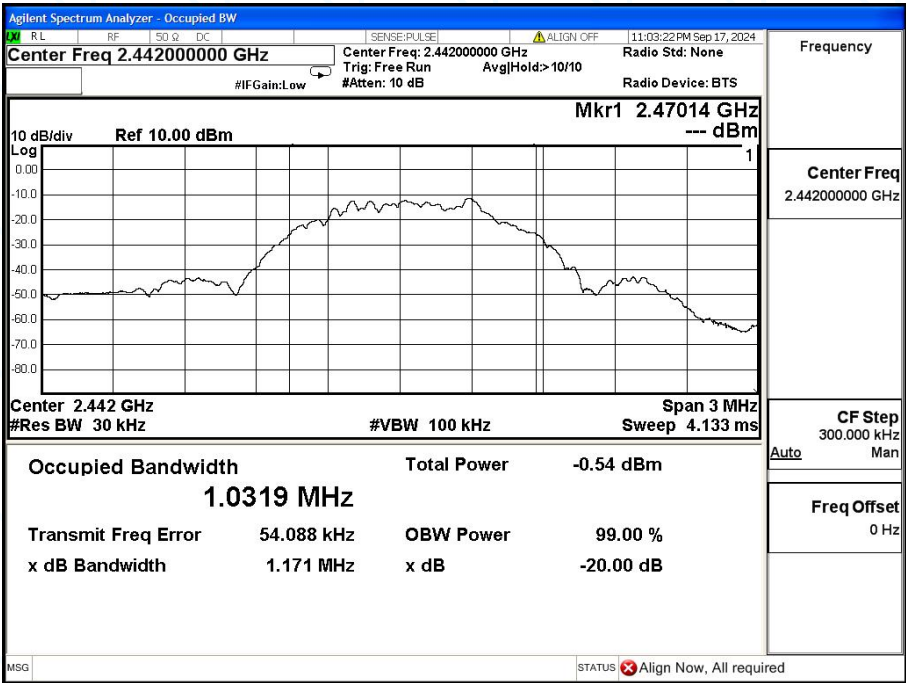
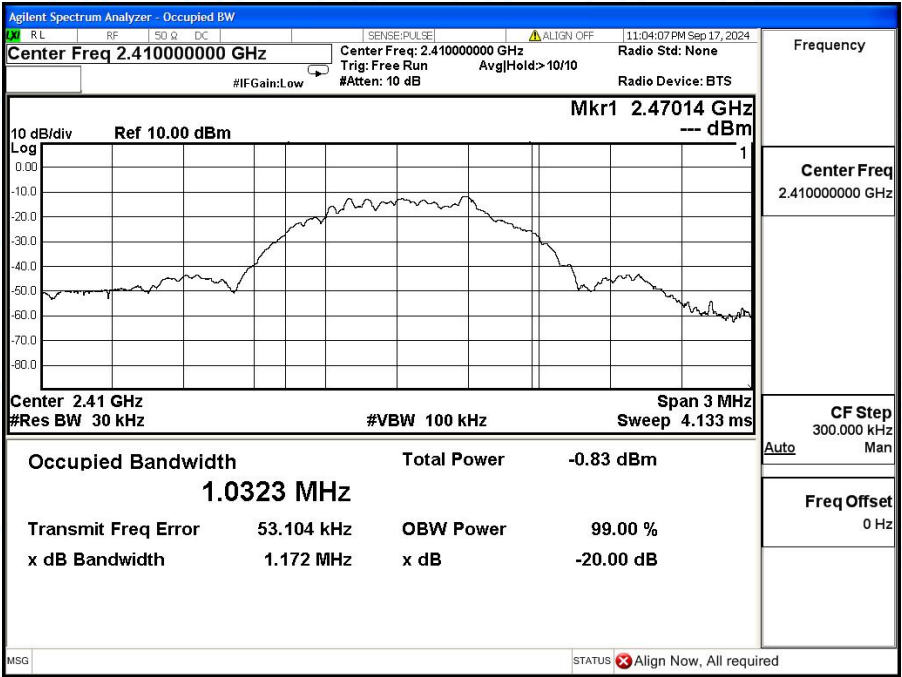
Test Requirement:	47 CFR Part 15C Section 15.215
Test Method:	ANSI C63.10:2013 Section 7.8.7
Test Setup:	Spectrum Analyzer  Non-Conducted Table Ground Reference Plane
Instruments Used:	Refer to section 2.9 for details
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Through Pre-scan, find the worst case
Limit:	no wider than 0.25% of the center frequency
Test Results:	Pass

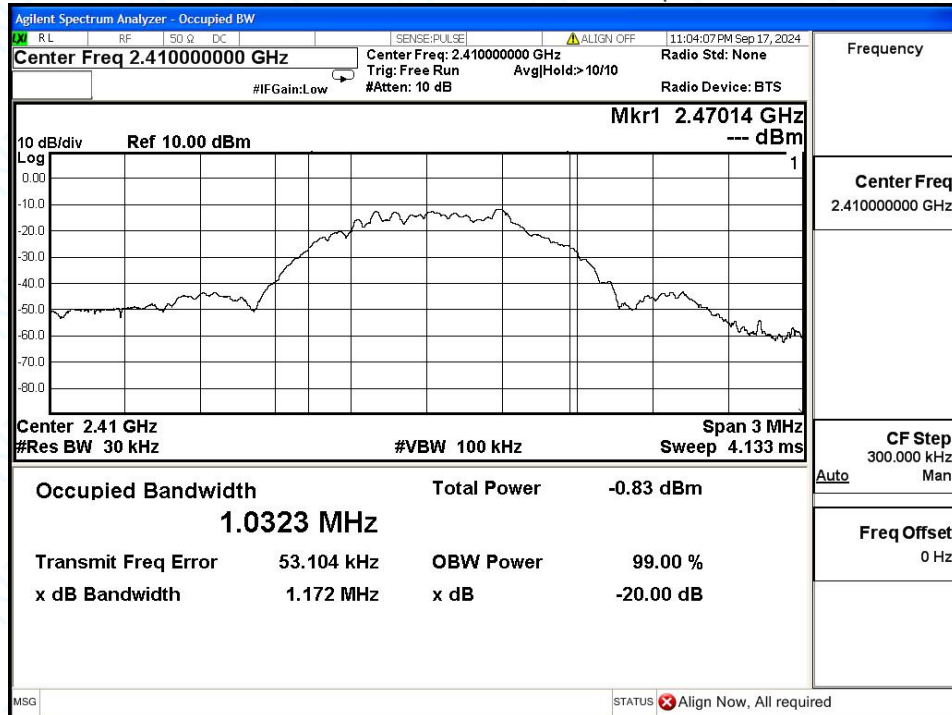
Test Data:

Test Frequency (MHz)	20dB Bandwidth (MHz)	Result
2410	1.172	Pass
2442	1.171	Pass
2470	1.172	Pass



Test Graphs

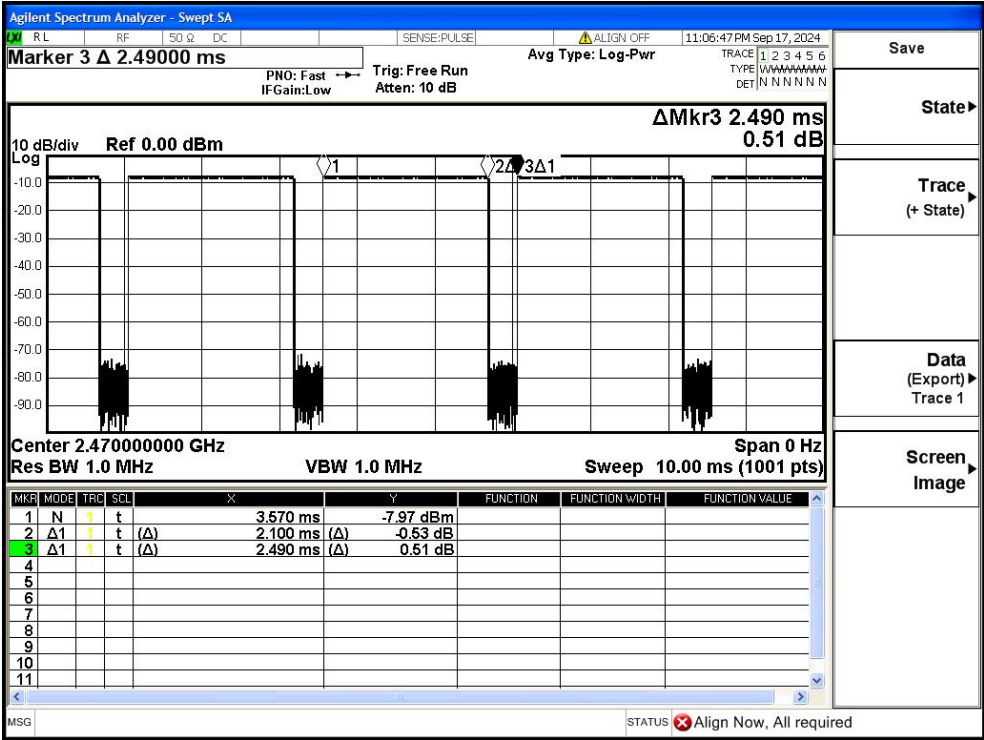






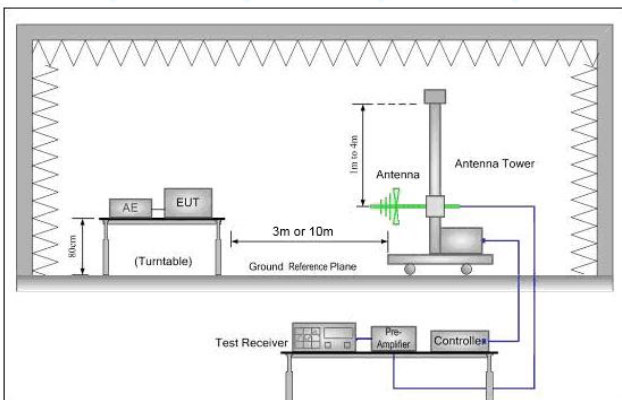
3.3 Duty Cycle

Limit :N/A





3.4 Field Strength of Fundamental

Test Requirement:	47 CFR Part 15C Section 15.249(a)		
Test Method:	ANSI C63.10 :2020 Section 11.12		
Test Setup:			
Test Instruments:	Refer to section 2.9 for details		
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates		
Final Test Mode:	Through Pre-scan, find the worst case		
Limit:	Fundamental frequency		Field strength of fundamental@3m (microvolts/meter)
	902-928MHz		50
	2400-2483.5MHz		50
	5725-5875MHz		50
	24.0-24.25		250
	The EUT fundamental frequency is in 2400-2483.5MHz,So the Average Limit& Peak Limit is show in below table:		
	Fundamental frequency	Field strength of fundamental@3m (dBμV/m)	
	Average Limit	Peak Limit	
2400-2483.5MHz	94	114	
Note:			
1. Average Limit (dBμV/m)=20×log[1000×Field Strength (mV/m)].			
2. Peak Limit (dBμV/m)= Average Limit (dBμV/m)+20dB			
Test Configuration:	RBW: ≥OBW VBW: 3XRBW Start frequency: 2400MHz Stop frequency: 2483.5MHz Sweep Time: Auto Detector: PEAK/AVG		



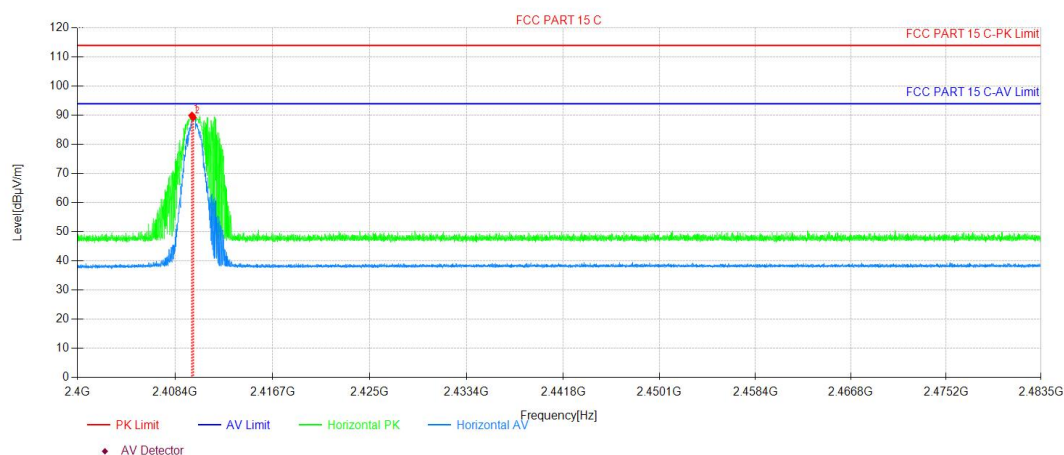
	Trace Mode: Max Hold
Test Procedure:	a. the EUT was placed on the top of a rotating table 1 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. c. The antenna 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. d. 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 (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading. e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet. g. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, And found the X axis positioning which it is worse case. r. Repeat above procedures until all frequencies measured was complete.
Test Results:	Pass



Test Data

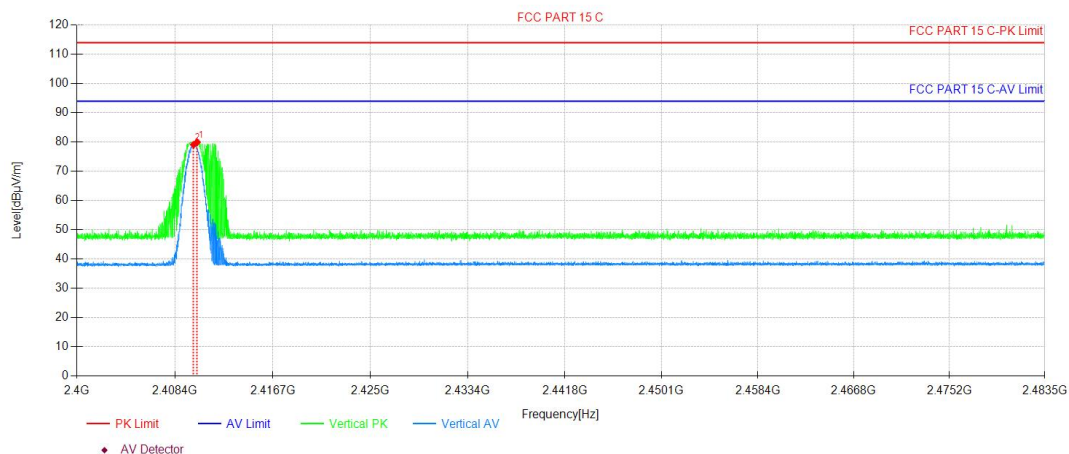
2410MHz

Horizontal:



NO.	Freq. [MHz]	Reading Level [dBμV]	Correct Factor [dB/m]	Result Level [dBμV/m]	Limit [dB μ V/m]	Margin [dB]	Height [cm]	Angle [°]	Remark
1	2409.78	90.63	-0.67	89.96	114.00	24.04	150	35	PK
2	2409.88	89.92	-0.67	89.25	94.00	4.75	150	23	AV

Vertical:

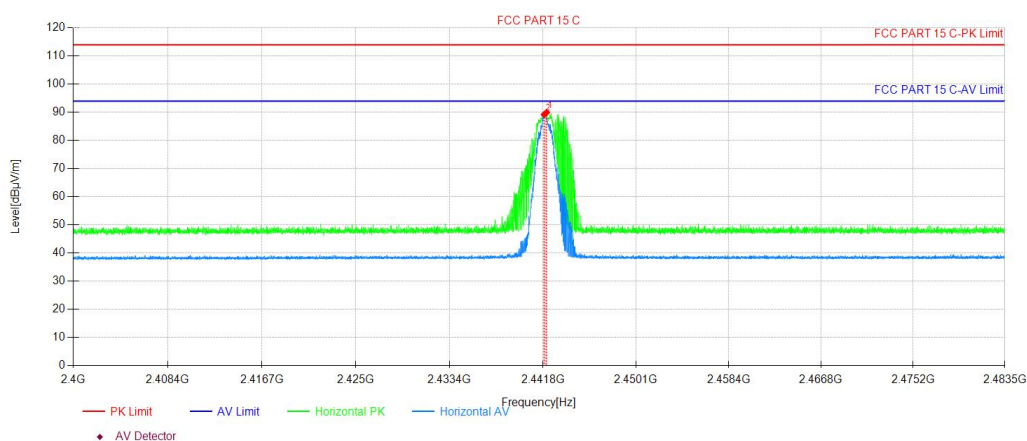


NO.	Freq. [MHz]	Reading Level [dBμV]	Correct Factor [dB/m]	Result Level [dBμV/m]	Limit [dB μ V/m]	Margin [dB]	Height [cm]	Angle [°]	Remark
1	2410.23	80.64	-0.67	79.97	114.00	34.03	150	357	PK
2	2409.92	79.77	-0.67	79.10	94.00	14.90	150	0	AV



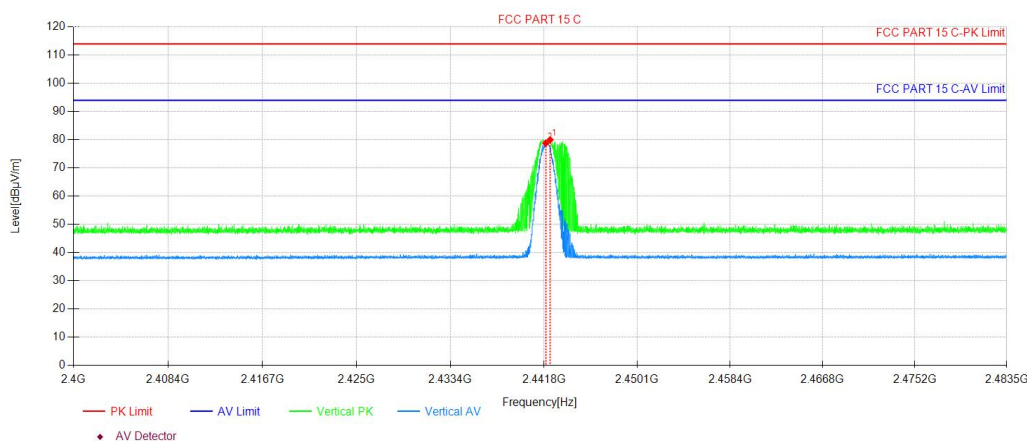
2442MHz

Horizontal:



NO.	Freq. [MHz]	Reading Level [dBμV]	Correct Factor [dB/m]	Result Level [dBμV/m]	Limit [dB μ V/m]	Margin [dB]	Height [cm]	Angle [°]	Remark
1	2442.07	90.39	-0.47	89.92	114.00	24.08	150	32	PK
2	2441.85	89.68	-0.47	89.21	94.00	4.79	150	21	AV

Vertical:

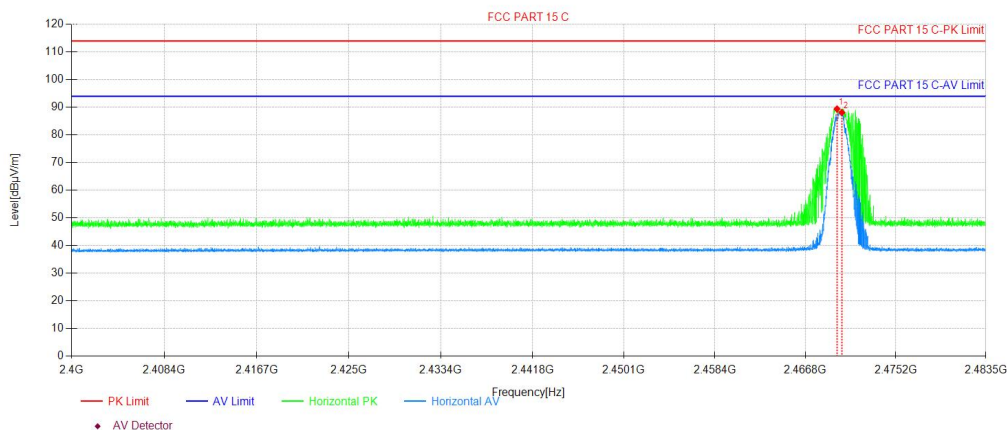


NO.	Freq. [MHz]	Reading Level [dBμV]	Correct Factor [dB/m]	Result Level [dBμV/m]	Limit [dB μ V/m]	Margin [dB]	Height [cm]	Angle [°]	Remark
1	2442.29	80.45	-0.47	79.98	114.00	34.02	150	20	PK
2	2441.89	79.25	-0.47	78.78	94.00	15.22	150	347	AV



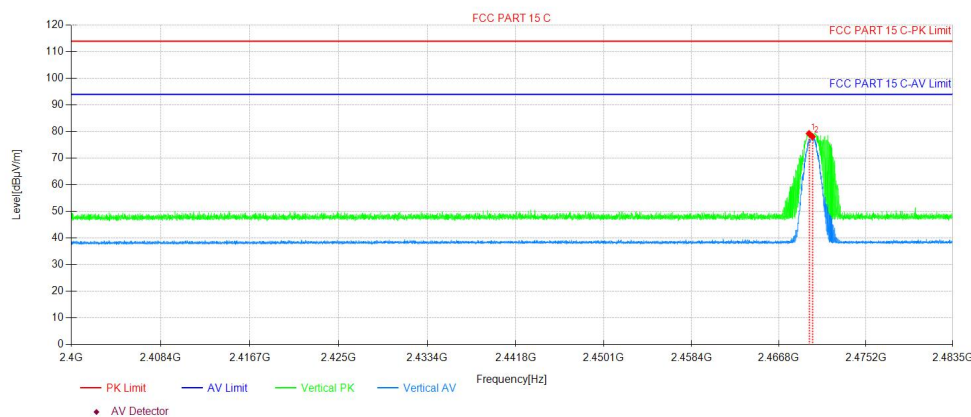
2470MHz

Horizontal:



NO.	Freq. [MHz]	Reading Level [dBμV]	Correct Factor [dB/m]	Result Level [dBμV/m]	Limit [dB μ V/m]	Margin [dB]	Height [cm]	Angle [°]	Remark
1	2469.71	89.77	-0.36	89.41	114.00	24.59	150	24	PK
2	2470.16	88.49	-0.36	88.13	94.00	5.87	150	24	AV

Vertical:



NO.	Freq. [MHz]	Reading Level [dBμV]	Correct Factor [dB/m]	Result Level [dBμV/m]	Limit [dB μ V/m]	Margin [dB]	Height [cm]	Angle [°]	Remark
1	2469.69	79.65	-0.36	79.29	114.00	34.71	150	25	PK
2	2470.02	78.46	-0.36	78.10	94.00	15.90	150	25	AV

Note

1. The Measurement (Result Level) is calculated by Reading Level adding the Correct Factor(maybe including LISN Factor and the Cable Factor etc.), The basic equation is as follows:

Result Level= Reading Level + Correct Factor(including Ant.Factor ,Cable Factor etc.)

2. Average Level=Peak Level + 20log(Duty cycle)



3.5 Radiated Spurious Emissions

Test Requirement:	47 CFR Part 15C Section 15.249(a) 47 CFR Part 15C Section 15.209 47 CFR Part 15C Section 15.205				
Test Method:	ANSI C63.10 :2020 Section 11.12				
Test Site:	Measurement Distance: 3m or 10m (Semi-Anechoic Chamber)				
Receiver Setup:	Frequency	Detector	RBW	VBW	Remark
	0.009MHz-0.090MHz	Peak	10kHz	30kHz	Peak
	0.009MHz-0.090MHz	Average	10kHz	30kHz	Average
	0.090MHz-0.110MHz	Quasi-peak	10kHz	30kHz	Quasi-peak
	0.110MHz-0.490MHz	Peak	10kHz	30kHz	Peak
	0.110MHz-0.490MHz	Average	10kHz	30kHz	Average
	0.490MHz -30MHz	Quasi-peak	10kHz	30kHz	Quasi-peak
	30MHz-1GHz	Quasi-peak	120kHz	300kHz	Quasi-peak
	Above 1GHz	Peak	1MHz	3MHz	Peak
Limit:	15.209 Radiated emission limits				
	Frequency	Field strength (microvolt/meter)	Limit (dBuV/m)	Remark	Measurement distance (m)
	0.009MHz-0.490MHz	2400/F(kHz)	-	-	300
	0.490MHz-1.705MHz	24000/F(kHz)	-	-	30
	1.705MHz-30MHz	30	-	-	30
	30MHz-88MHz	100	40.0	Quasi-peak	3
	88MHz-216MHz	150	43.5	Quasi-peak	3
	216MHz-960MHz	200	46.0	Quasi-peak	3
	960MHz-1GHz	500	54.0	Quasi-peak	3
	Above 1GHz	500	54.0	Average	3
	Remark: Unless otherwise specified, the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total peak emission level radiated by the device.				
	The limits on the field strength of the spurious emissions in the below table are based on the fundamental frequency of the intentional radiator. Spurious emissions shall be attenuated to the average (or, alternatively, CISPR quasi-peak) limits shown in this table or to the general limits shown in §15.209, whichever limit permits a higher field strength.				



Fundamental frequency	Field strength of harmonics@3m (microvolts/meter)
902-928MHz	500
2400-2483.5MHz	500
5725-5875MHz	500
24.0-24.25	2500

The EUT fundamental frequency is 2400-2483.5MHz, So the Average Limit & Peak Limit is show in below table:

Fundamental frequency (MHz)	Field strength of spurious emission@3m (dBμV/m)	
	Average Limit	Peak Limit
2400-2483.5	54	74

Note:

1. Average Limit (dBμV/m) = $20 \times \log[1000 \times \text{Field Strength (mV/m)}]$.

2. Peak Limit (dBμV/m) = Average Limit (dBμV/m) + 20dB

15.205 Restricted frequency band

MHz	MHz	MHz	GHz
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
0.495 - 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	108 - 121.94	1718.8 - 1722.2	13.25 - 13.4
6.31175 - 6.31225	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)

Test Setup:

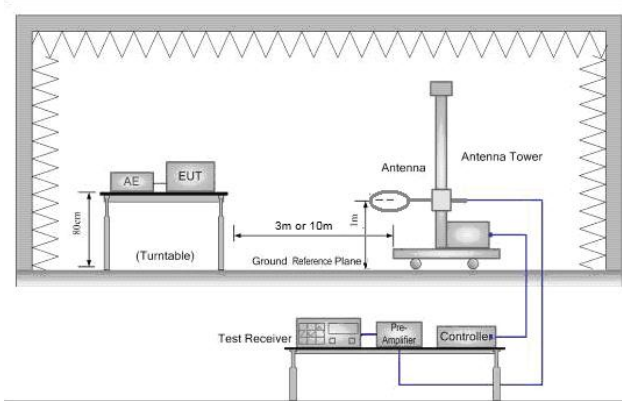


Figure 1. Below 30MHz

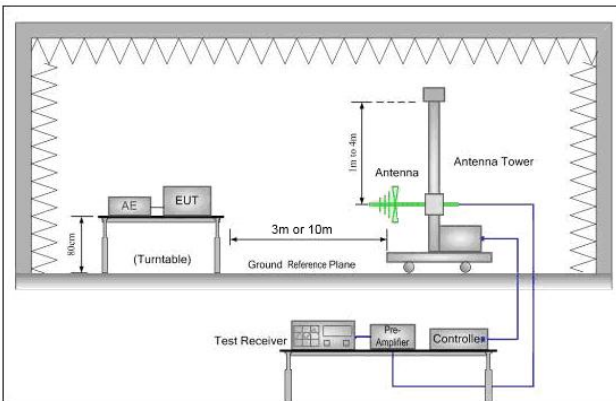


Figure 2. 30MHz to 1GHz

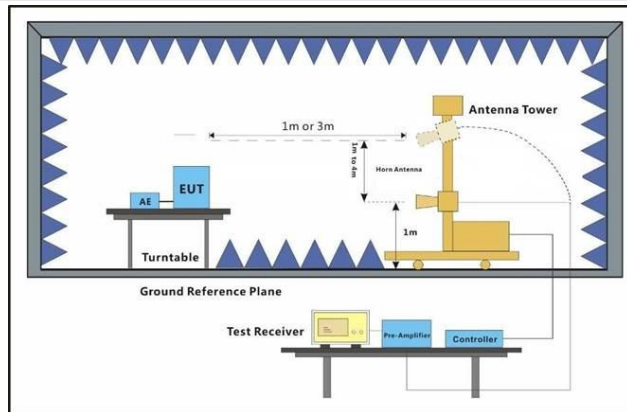


Figure 3. Above 1 GHz

Test Procedure:

- h. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- i. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation
- j. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- k. The antenna 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.
- l. 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 (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- m. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- n. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- o. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- p. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, And found the X axis positioning which it is worse case.
- q. Repeat above procedures until all frequencies measured was complete.

Exploratory Test Mode:

Transmitting with all kind of modulations, data rates. Transmitting mode.



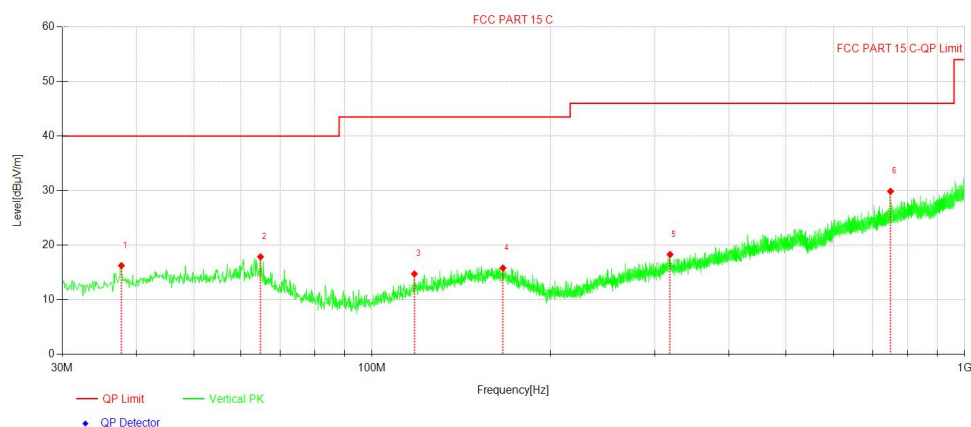
Final Test Mode:	Pretest the EUT at Transmitting mode. Through Pre-scan, find the worst case.
Instruments Used:	Refer to section 2.9 for details
Test Results:	Pass



Test data

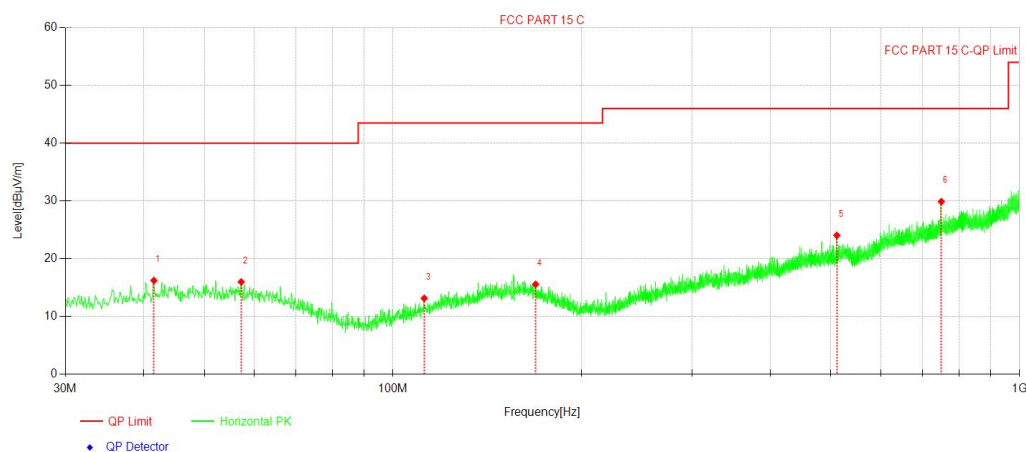
For 30-1000MHz TX

Vertical:



NO.	Freq. [MHz]	Reading Level [dBμV]	Correct Factor [dB/m]	Result Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Remark
1	37.76	25.33	-9.08	16.25	40.00	23.75	100	235	Peak
2	64.82	27.16	-9.30	17.86	40.00	22.14	100	62	Peak
3	117.89	25.18	-10.45	14.73	43.50	28.77	100	42	Peak
4	166.29	23.86	-8.05	15.81	43.50	27.69	100	171	Peak
5	318.40	24.65	-6.36	18.29	46.00	27.71	100	225	Peak
6	750.00	26.46	3.41	29.87	46.00	16.13	100	331	Peak

Horizontal:



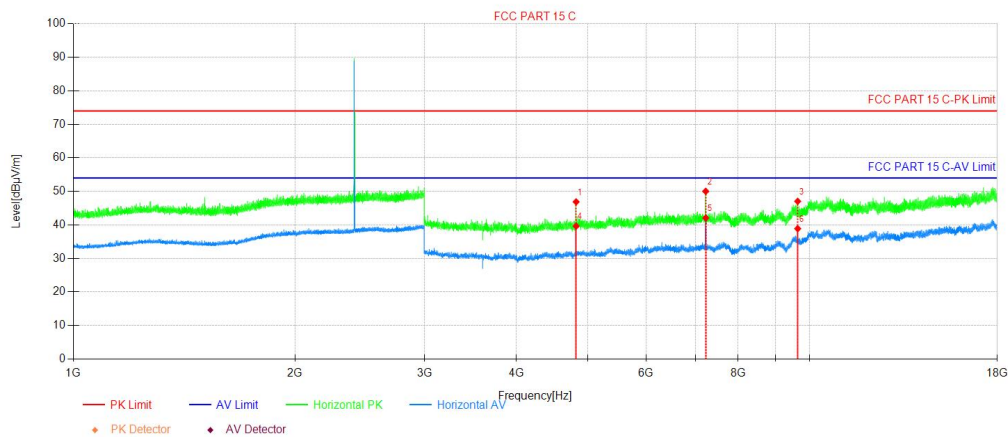
NO.	Freq. [MHz]	Reading Level [dBμV]	Correct Factor [dB/m]	Result Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Remark
1	41.54	24.79	-8.58	16.21	40.00	23.79	200	360	Peak
2	57.25	24.46	-8.49	15.97	40.00	24.03	200	48	Peak
3	112.16	24.10	-10.97	13.13	43.50	30.37	200	177	Peak
4	168.91	23.77	-8.22	15.55	43.50	27.95	100	290	Peak
5	510.87	25.57	-1.54	24.03	46.00	21.97	100	65	Peak
6	750.00	26.47	3.41	29.88	46.00	16.12	100	160	Peak



For above 1GHz TX

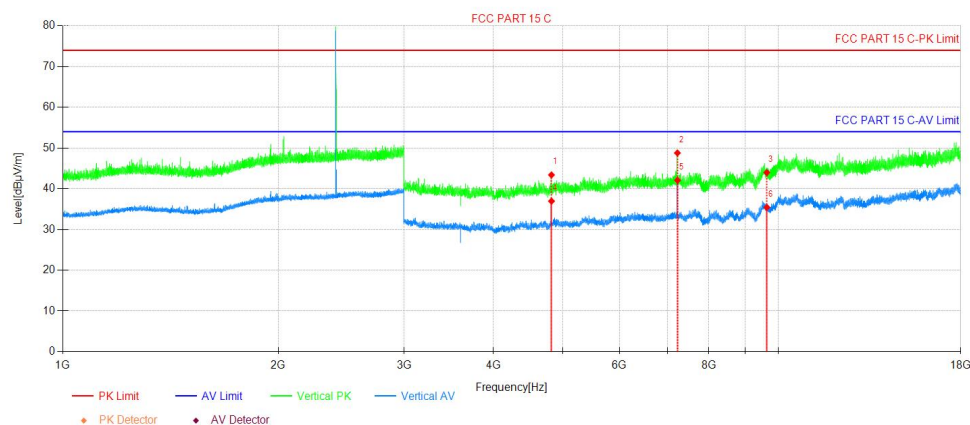
2410MHz

Horizontal:



NO.	Freq. [MHz]	Reading Level [dBμV]	Correct Factor [dB/m]	Result Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Remark
1	4820.34	51.51	-4.63	46.88	74.00	27.12	150	152	PK
2	7229.46	51.75	-1.71	50.04	74.00	23.96	150	210	PK
3	9639.33	46.02	1.02	47.04	74.00	26.96	150	81	PK
4	4820.34	44.27	-4.63	39.64	54.00	14.36	150	164	PK
5	7230.21	43.78	-1.71	42.07	54.00	11.93	150	222	PK
6	9640.08	37.85	1.03	38.88	54.00	15.12	150	92	PK

Vertical:

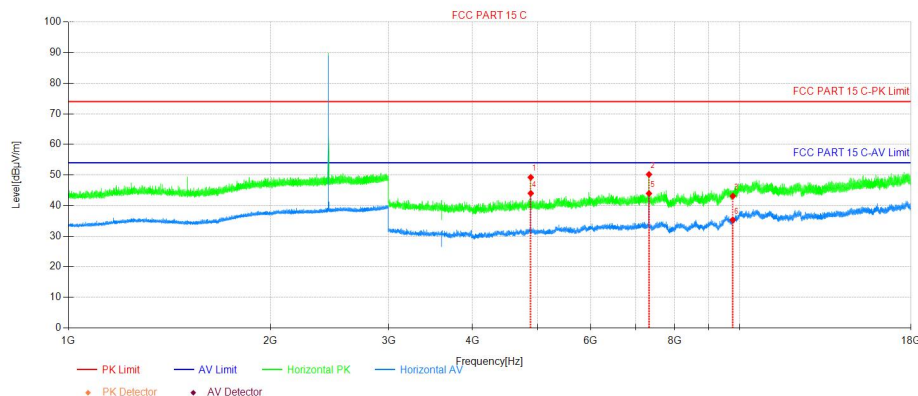


NO.	Freq. [MHz]	Reading Level [dBμV]	Correct Factor [dB/m]	Result Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Remark
1	4820.34	48.02	-4.63	43.39	74.00	30.61	150	310	PK
2	7229.46	50.49	-1.71	48.78	74.00	25.22	150	137	PK
3	9640.08	42.94	1.03	43.97	74.00	30.03	150	137	PK
4	4821.09	41.58	-4.63	36.95	54.00	17.05	150	319	PK
5	7230.96	43.79	-1.71	42.08	54.00	11.92	150	182	PK
6	9640.08	34.38	1.03	35.41	54.00	18.59	150	90	PK



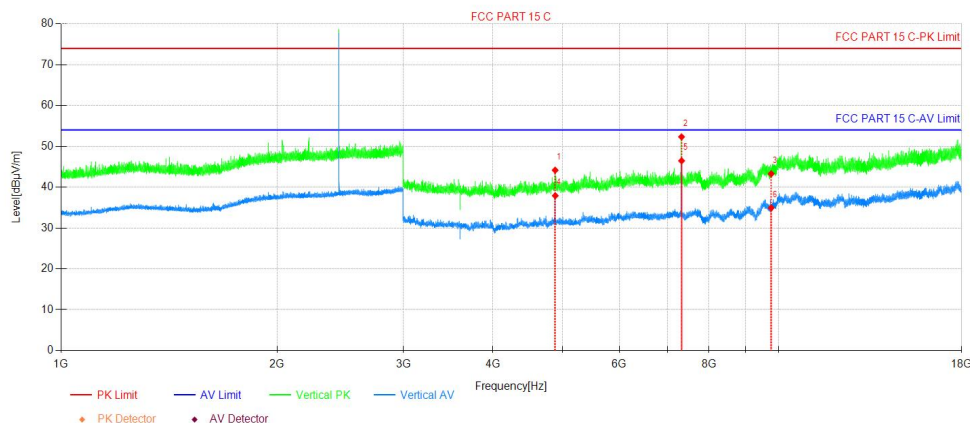
2442MHz

Horizontal:



NO.	Freq. [MHz]	Reading Level [dBμV]	Correct Factor [dB/m]	Result Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Remark
1	4884.09	53.96	-4.72	49.24	74.00	24.76	150	163	PK
2	7326.96	51.67	-1.48	50.19	74.00	23.81	150	152	PK
3	9768.33	41.43	1.67	43.10	74.00	30.90	150	4	PK
4	4884.82	48.73	-4.72	44.01	54.00	9.99	150	163	PK
5	7326.96	45.43	-1.48	43.95	54.00	10.05	150	152	PK
6	9768.33	33.66	1.67	35.33	54.00	18.67	150	140	PK

Vertical:

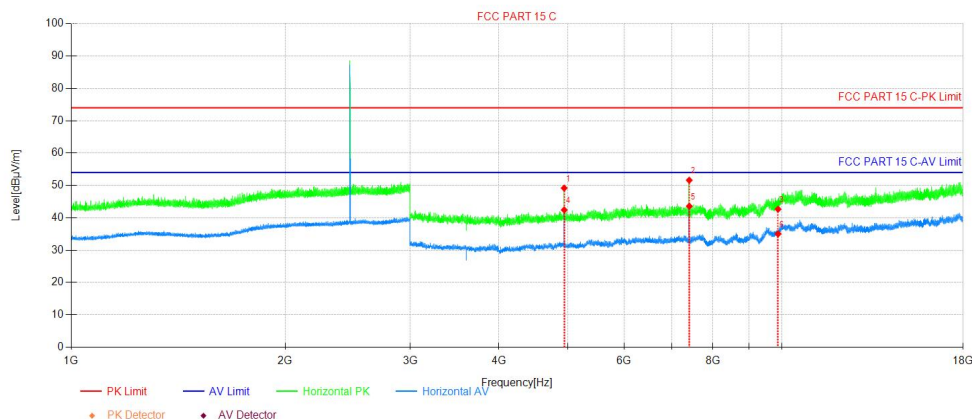


NO.	Freq. [MHz]	Reading Level [dBμV]	Correct Factor [dB/m]	Result Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Remark
1	4883.34	48.88	-4.72	44.16	74.00	29.84	150	322	PK
2	7325.46	53.80	-1.48	52.32	74.00	21.68	150	149	PK
3	9768.33	41.61	1.67	43.28	74.00	30.72	150	186	PK
4	4884.84	42.63	-4.72	37.91	54.00	16.09	150	334	PK
5	7326.21	47.95	-1.48	46.47	54.00	7.53	150	67	PK
6	9768.33	33.27	1.67	34.94	54.00	19.06	150	334	PK



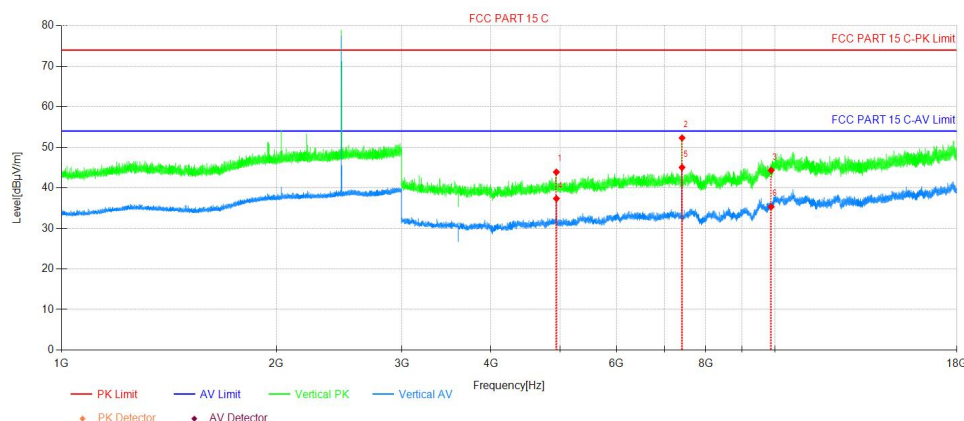
2470MHz

Horizontal:



NO.	Freq. [MHz]	Reading Level [dBμV]	Correct Factor [dB/m]	Result Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Remark
1	4940.34	54.01	-4.83	49.18	74.00	24.82	150	159	PK
2	7409.47	52.93	-1.31	51.62	74.00	22.38	150	217	PK
3	9880.09	40.53	2.12	42.65	74.00	31.35	150	310	PK
4	4941.09	47.24	-4.83	42.41	54.00	11.59	150	159	PK
5	7410.97	44.89	-1.31	43.58	54.00	10.42	150	217	PK
6	9880.09	32.91	2.12	35.03	54.00	18.97	150	333	PK

Vertical:

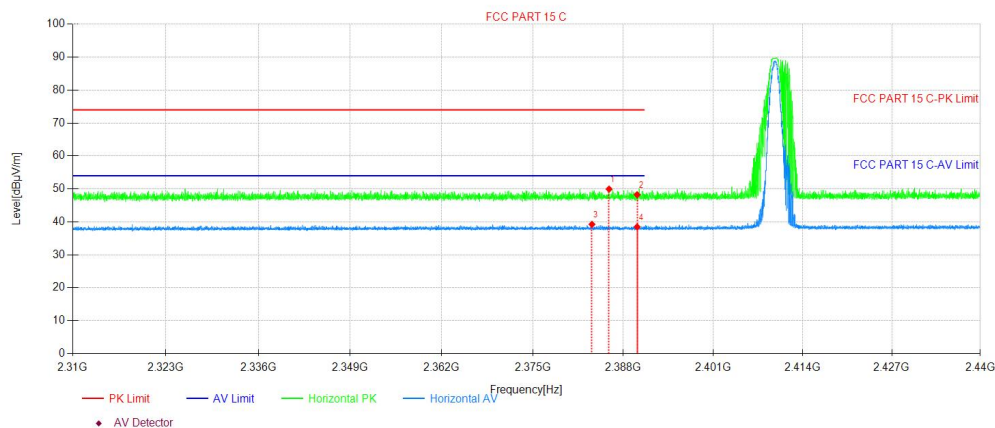


NO.	Freq. [MHz]	Reading Level [dBμV]	Correct Factor [dB/m]	Result Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Remark
1	4939.59	48.72	-4.83	43.89	74.00	30.11	150	13	PK
2	7410.95	53.63	-1.31	52.32	74.00	21.68	150	183	PK
3	9880.09	42.21	2.12	44.33	74.00	29.67	150	93	PK
4	4940.34	42.19	-4.83	37.36	54.00	16.64	150	13	PK
5	7410.22	46.35	-1.31	45.04	54.00	8.96	150	332	PK
6	9880.09	33.20	2.12	35.32	54.00	18.68	150	115	PK



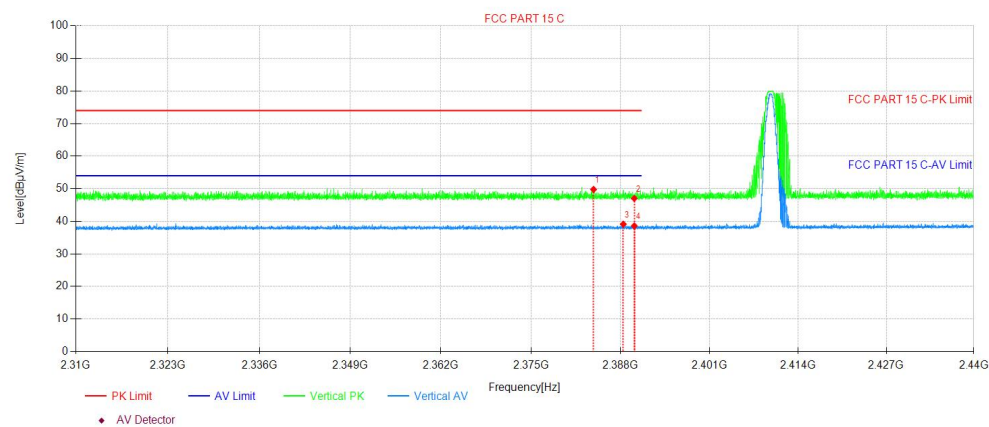
2410MHz

Horizontal:



NO.	Freq. [MHz]	Reading Level [dBμV]	Correct Factor [dB/m]	Result Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Remark
1	2385.96	50.75	-0.81	49.94	74.00	24.06	150	318	PK
2	2390.01	49.05	-0.80	48.25	74.00	25.75	150	232	PK
3	2383.50	40.06	-0.82	39.24	54.00	14.76	150	197	AV
4	2390.01	39.27	-0.80	38.47	54.00	15.53	150	232	AV

Vertical:

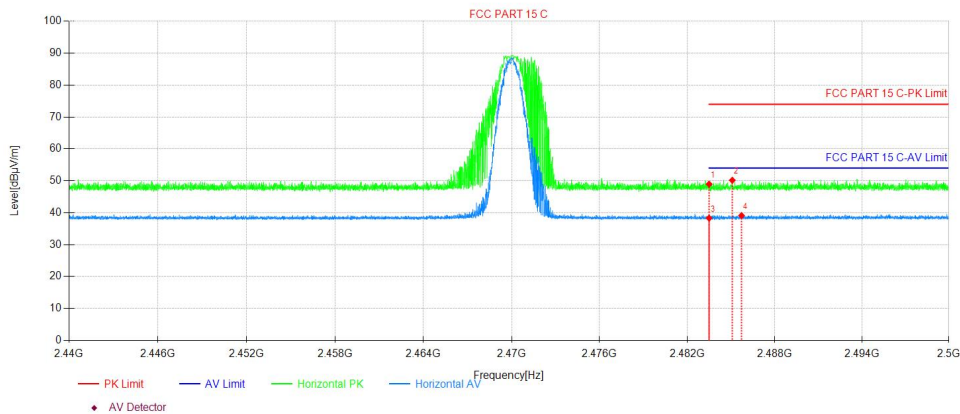


NO.	Freq. [MHz]	Reading Level [dBμV]	Correct Factor [dB/m]	Result Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Remark
1	2384.08	50.61	-0.82	49.79	74.00	24.21	150	18	PK
2	2390.01	47.84	-0.80	47.04	74.00	26.96	150	142	PK
3	2388.41	39.92	-0.80	39.12	54.00	14.88	150	28	AV
4	2390.01	39.39	-0.80	38.59	54.00	15.41	150	18	AV



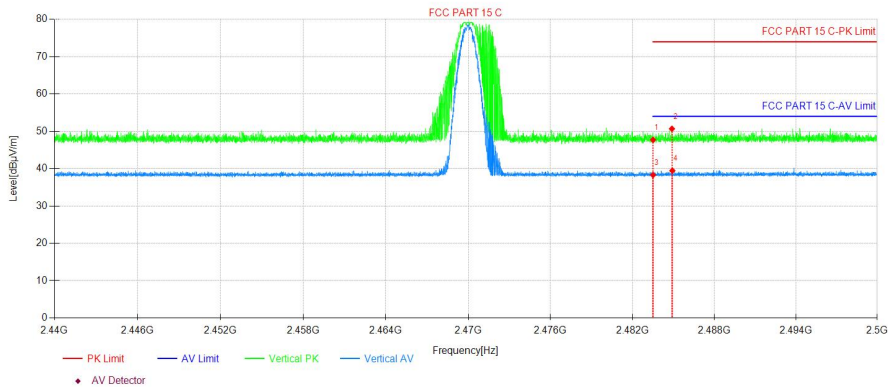
2470MHz

Horizontal:



NO.	Freq. [MHz]	Reading Level [dBμV]	Correct Factor [dB/m]	Result Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Remark
1	2483.50	49.26	-0.29	48.97	74.00	25.03	150	262	PK
2	2485.09	50.45	-0.27	50.18	74.00	23.82	150	130	PK
3	2483.50	38.60	-0.29	38.31	54.00	15.69	150	62	AV
4	2485.73	39.38	-0.27	39.11	54.00	14.89	150	2	AV

Vertical:



NO.	Freq. [MHz]	Reading Level [dBμV]	Correct Factor [dB/m]	Result Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Remark
1	2483.51	48.00	-0.29	47.71	74.00	26.29	150	329	PK
2	2484.89	50.95	-0.27	50.68	74.00	23.32	150	171	PK
3	2483.51	38.58	-0.29	38.29	54.00	15.71	150	329	AV
4	2484.92	39.73	-0.27	39.46	54.00	14.54	150	72	AV

Note:

1. The Measurement (Result Level) is calculated by Reading Level adding the Correct Factor(maybe including Ant.Factor and the Cable Factor etc.), The basic equation is as follows:

Measurement Level= Reading Level + Correct Factor(including LISN Factor ,Cable Factor etc.)

2. Average Level=Peak Level + 20log(Duty cycle)

3. The amplitude of 9KHz to 30MHz spurious emission that is attenuated by more than 20dB below the permissible limit has no need to be reported.



Dongguan DN Testing Co., Ltd.



	Charge + Transmitting mode.
Final Test Mode:	Through Pre-scan, find the 6.5Mbps of rate of 802.11n(HT20) at lowest channel is the worst case. Charge + Transmitting mode. Only the worst case is recorded in the report.
Instruments Used:	Refer to section 2.9 for details
Test Results:	N/a

---END REPORT---