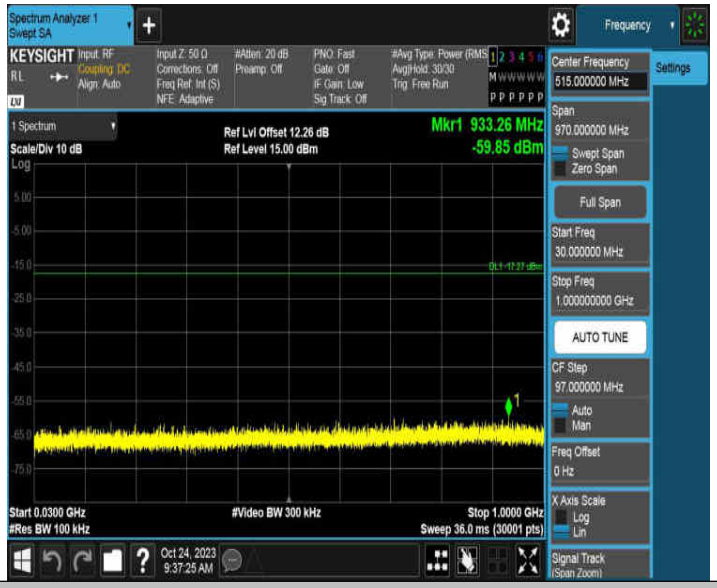
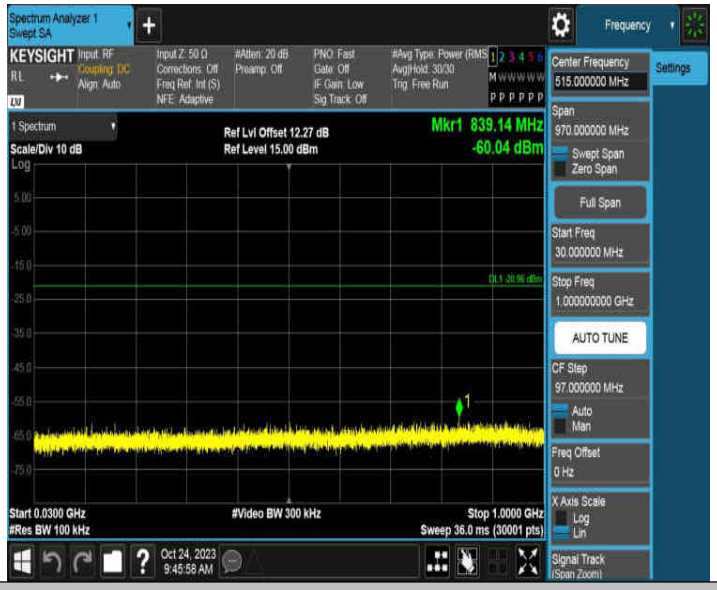
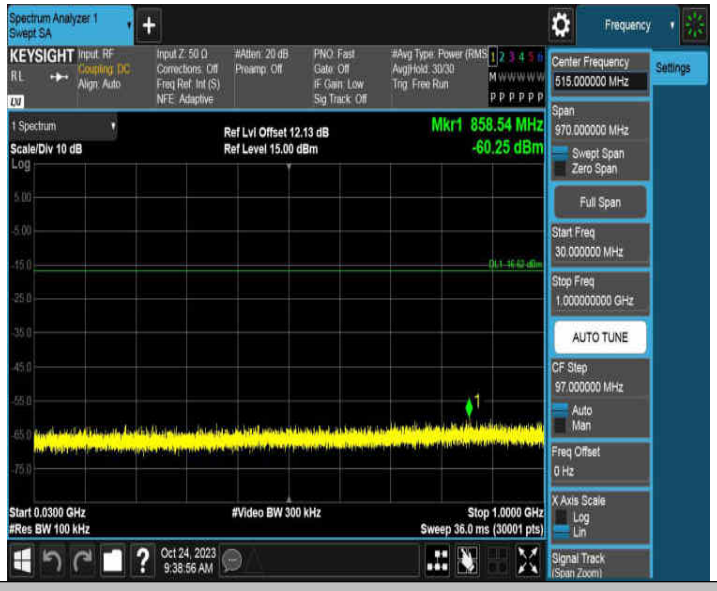
Spurious Emission:

11B_ANT0_2412_30~1000

11B_ANT0_2412_1000~26500

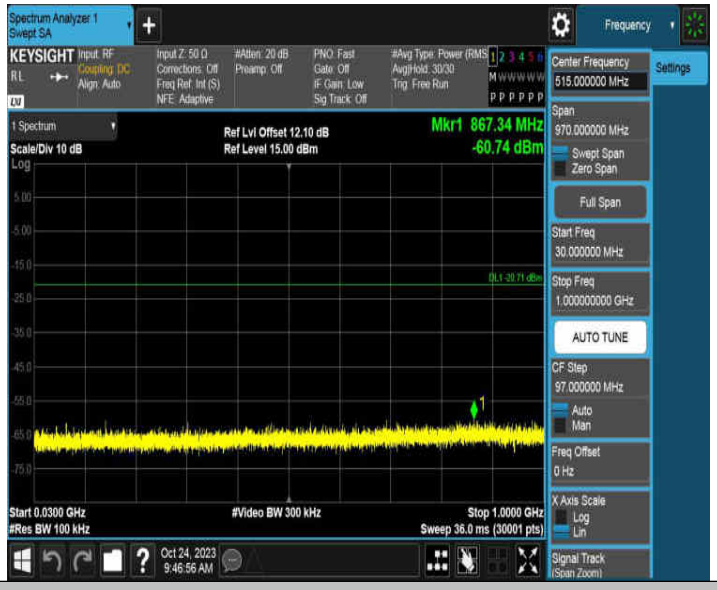
11B_ANT1_2412_30~1000

11B_ANT1_2412_1000~26500

11B_ANT0_2437_30~1000



11B_ANT0_2437_1000~26500

11B_ANT1_2437_30~1000

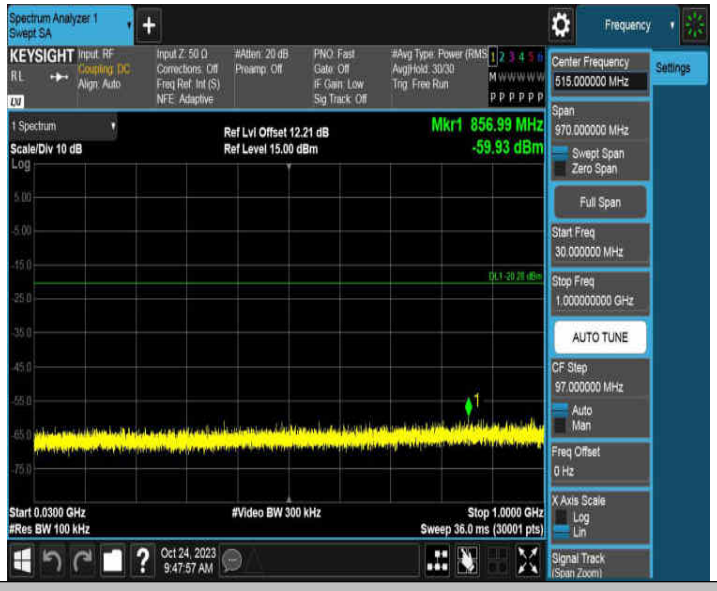


11B_ANT1_2437_1000~26500

11B_ANT0_2462_30~1000

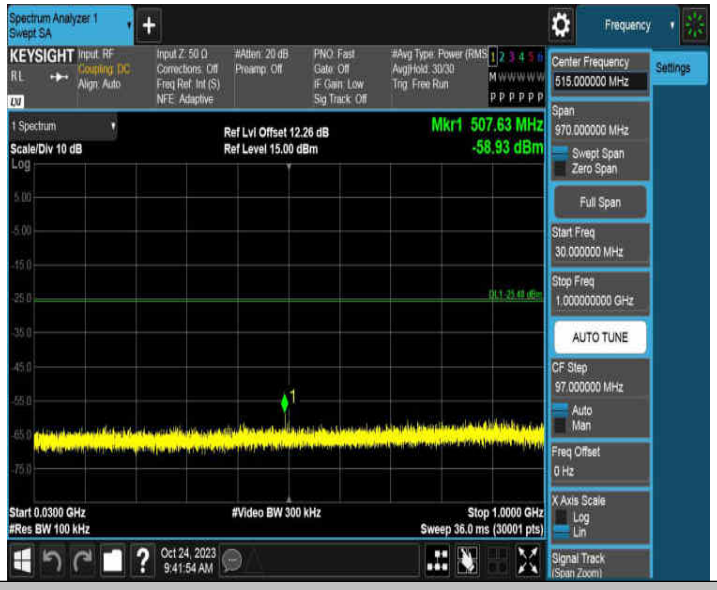
11B_ANT0_2462_1000~26500

11B_ANT1_2462_30~1000



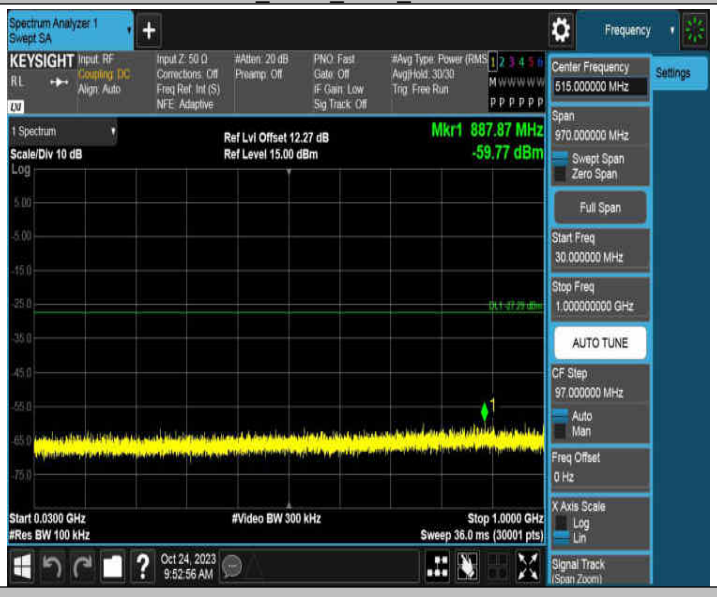
11B_ANT1_2462_1000~26500

11G_ANT0_2412_30~1000



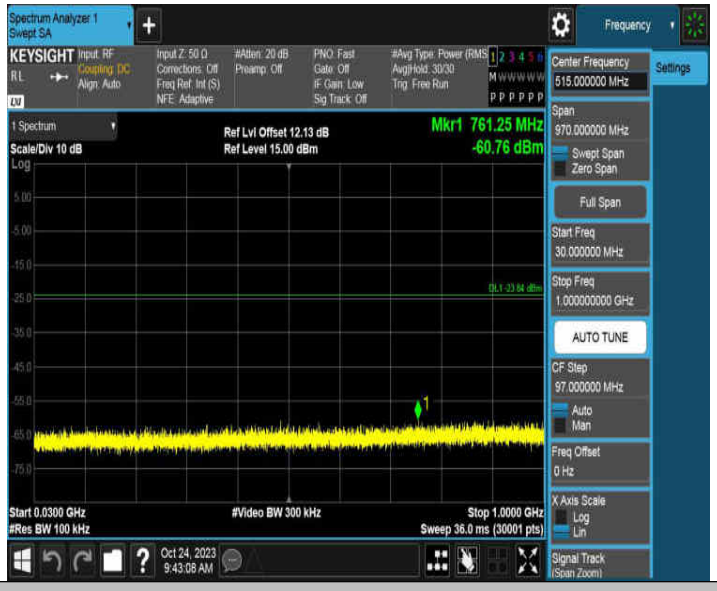
11G_ANT0_2412_1000~26500

11G_ANT1_2412_30~1000



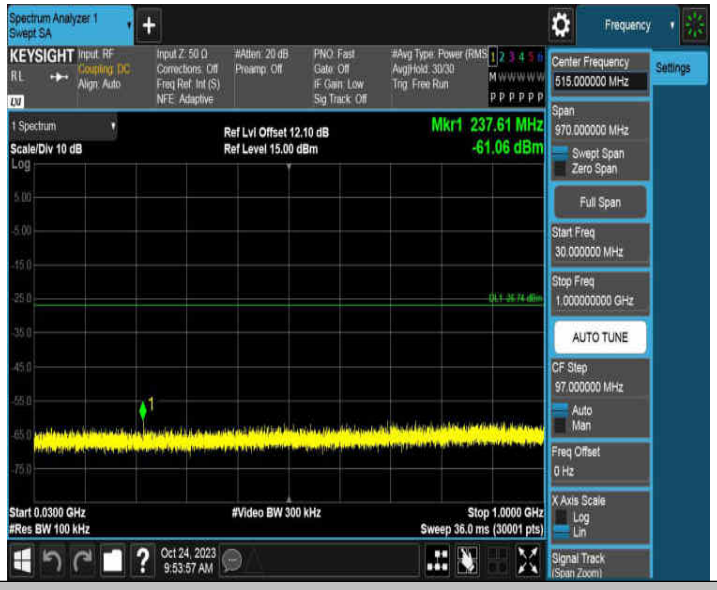
11G_ANT1_2412_1000~26500

11G_ANT0_2437_30~1000



11G_ANT0_2437_1000~26500

11G_ANT1_2437_30~1000

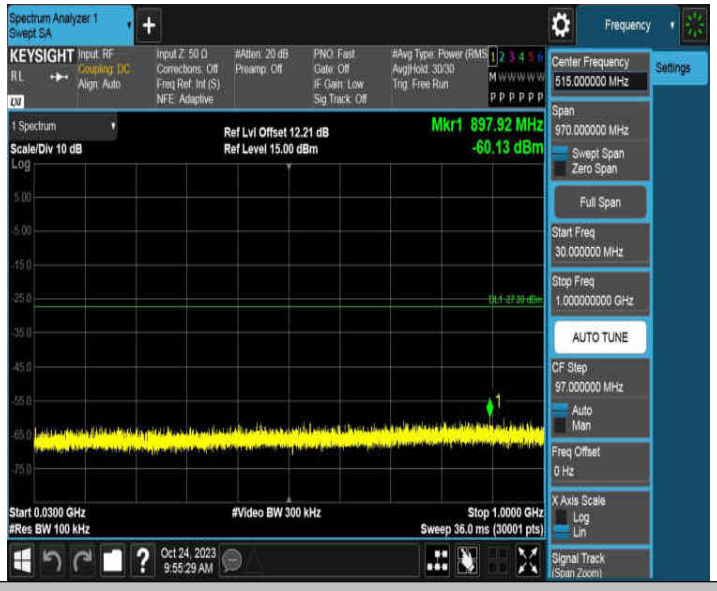


11G_ANT1_2437_1000~26500

11G_ANT0_2462_30~1000

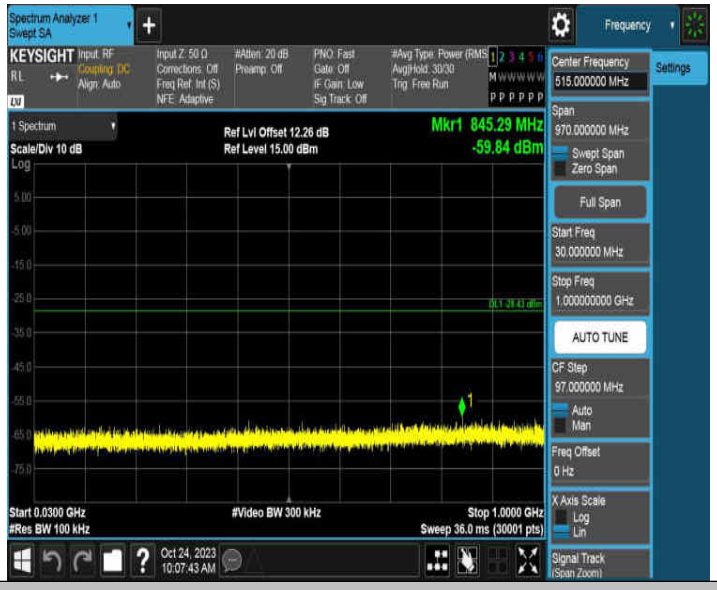
11G_ANT0_2462_1000~26500

11G_ANT1_2462_30~1000



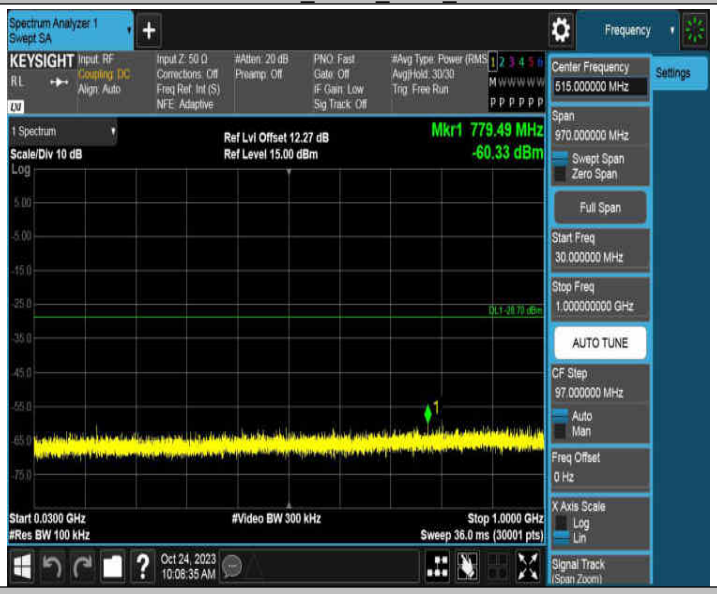
11G_ANT1_2462_1000~26500

11N20MIMO_ANT0_2412_30~1000



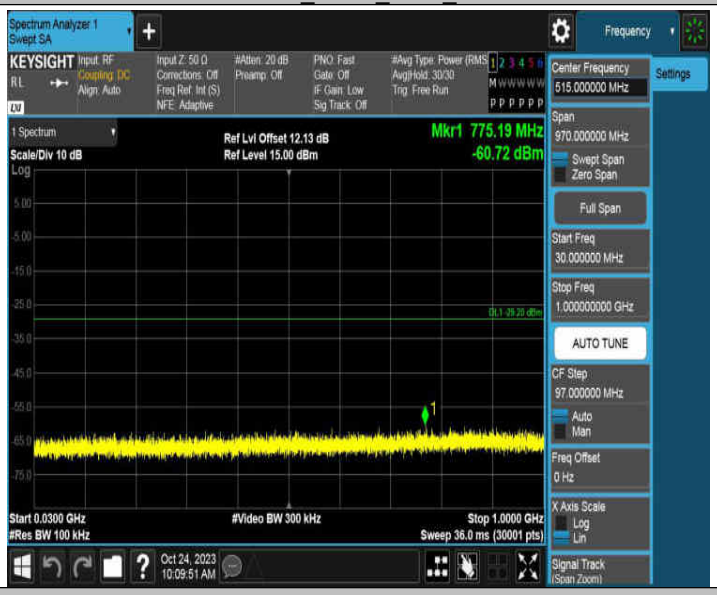
11N20MIMO_ANT0_2412_1000~26500

11N20MIMO_ANT1_2412_30~1000



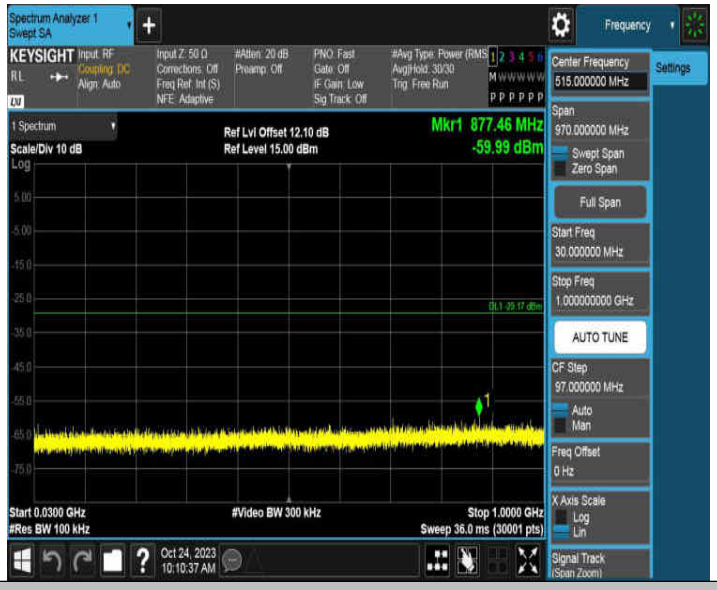
11N20MIMO_ANT1_2412_1000~26500

11N20MIMO_ANT0_2437_30~1000



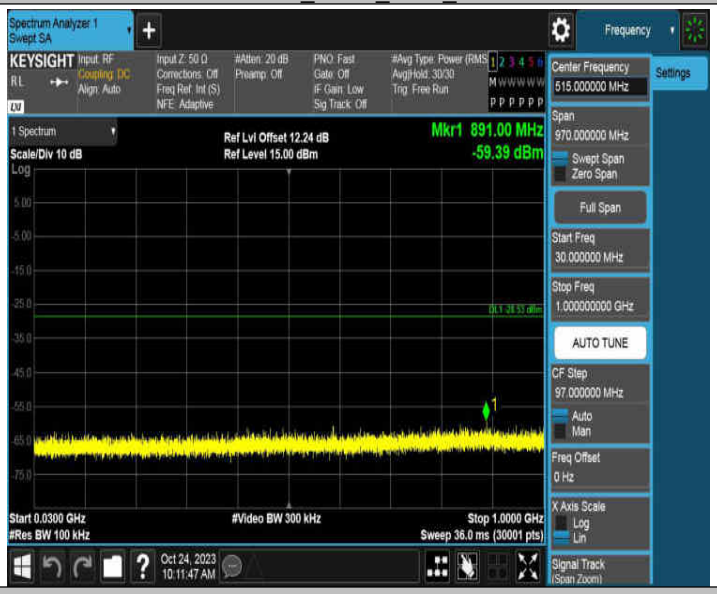
11N20MIMO_ANT0_2437_1000~26500

11N20MIMO_ANT1_2437_30~1000



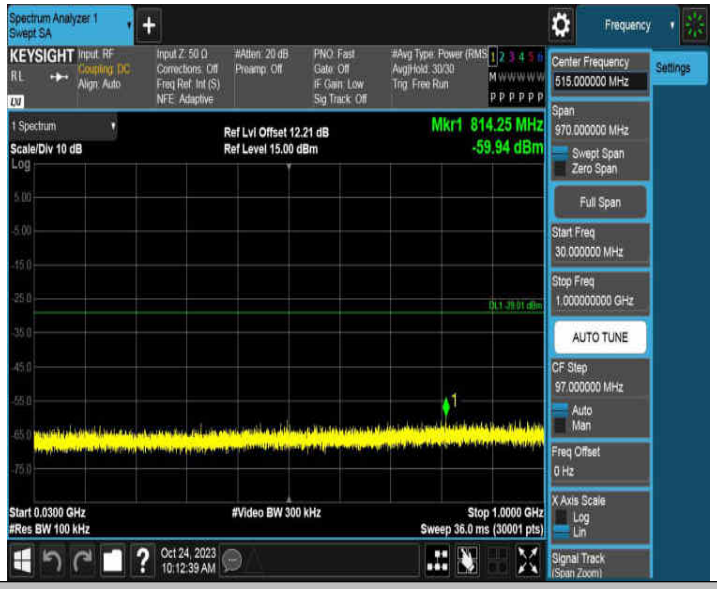
11N20MIMO_ANT1_2437_1000~26500

11N20MIMO_ANT0_2462_30~1000



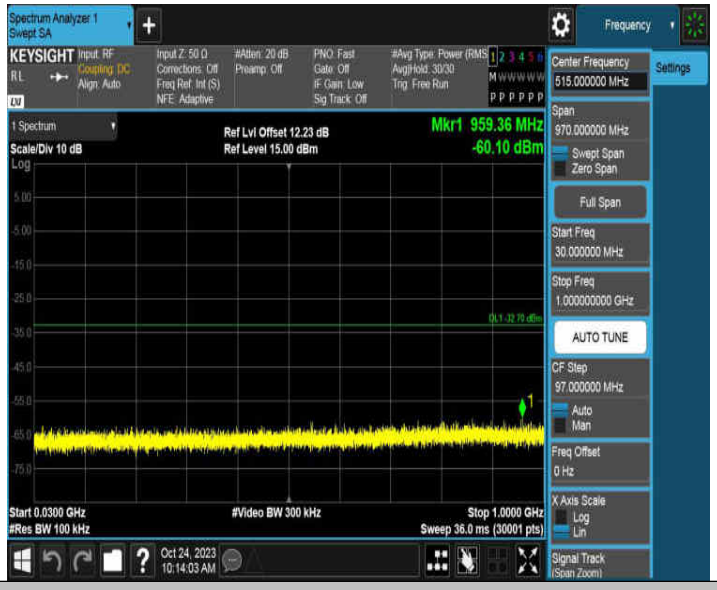
11N20MIMO_ANT0_2462_1000~26500

11N20MIMO_ANT1_2462_30~1000



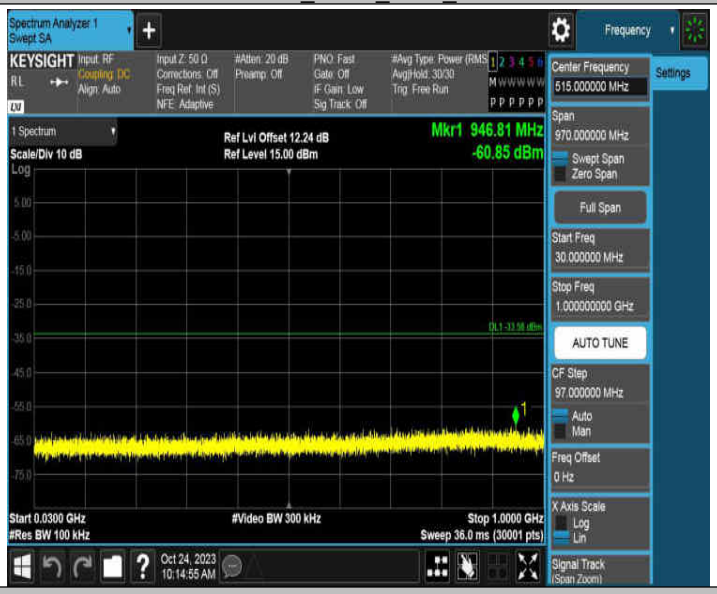
11N20MIMO_ANT1_2462_1000~26500

11N40MIMO_ANT0_2422_30~1000



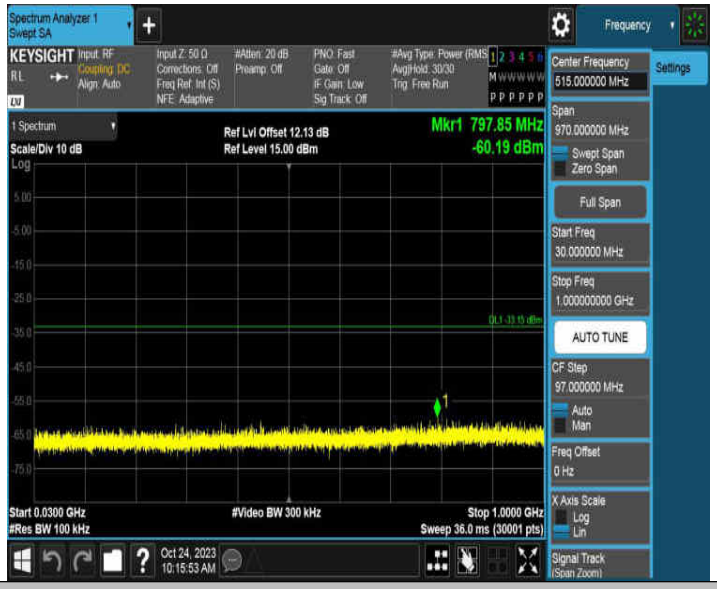
11N40MIMO_ANT0_2422_1000~26500

11N40MIMO_ANT1_2422_30~1000



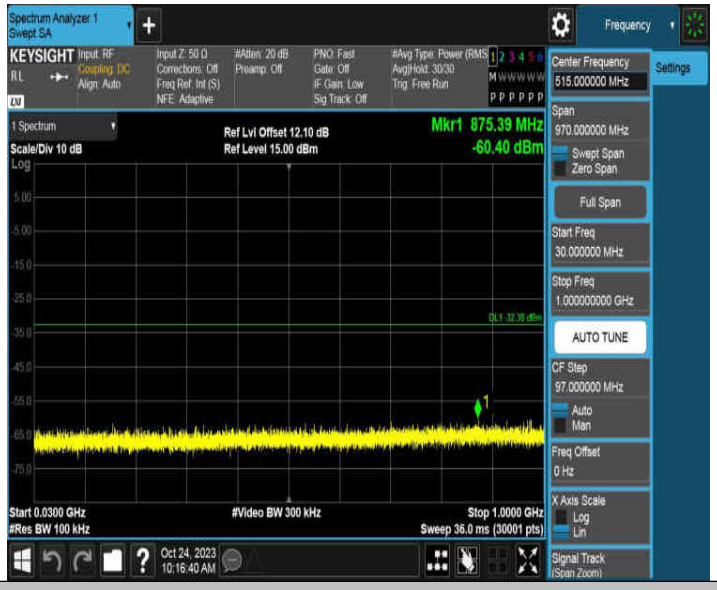
11N40MIMO_ANT1_2422_1000~26500

11N40MIMO_ANT0_2437_30~1000



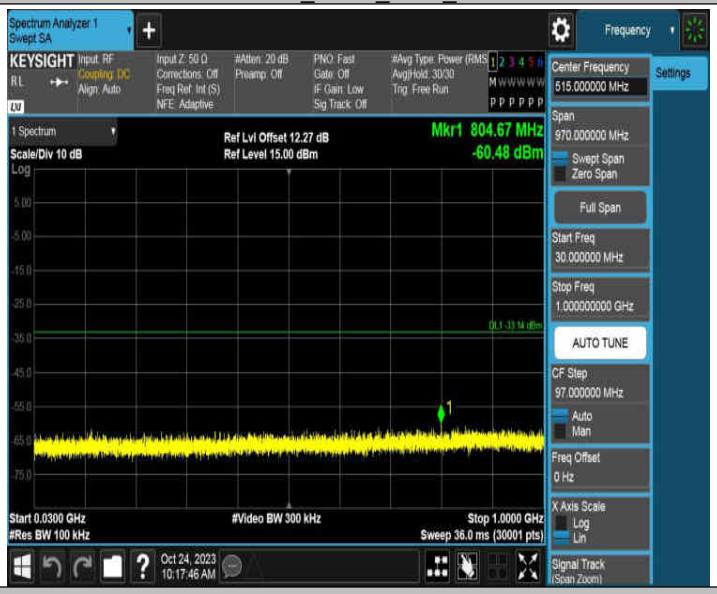
11N40MIMO_ANT0_2437_1000~26500

11N40MIMO_ANT1_2437_30~1000



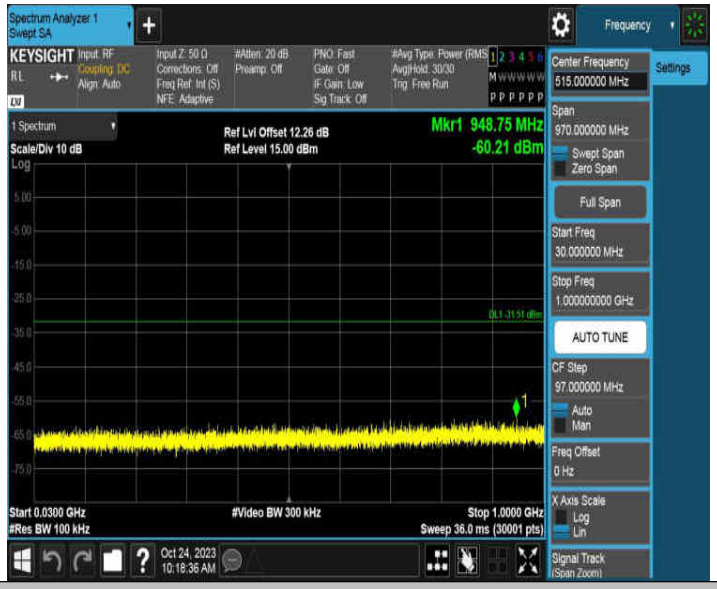
11N40MIMO_ANT1_2437_1000~26500

11N40MIMO_ANT0_2452_30~1000



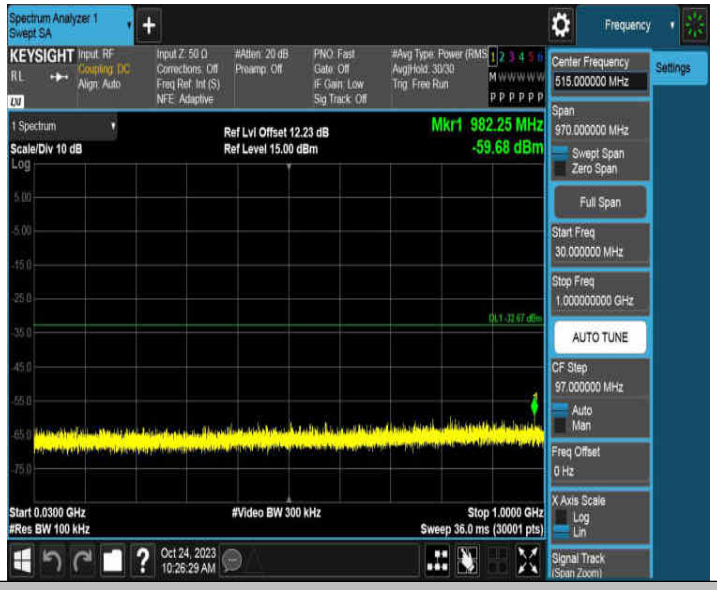
11N40MIMO_ANT0_2452_1000~26500

11N40MIMO_ANT1_2452_30~1000



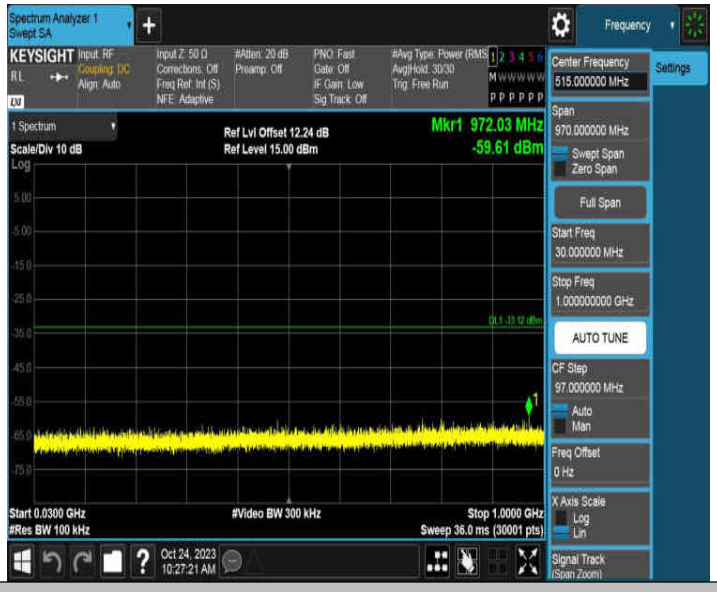
11N40MIMO_ANT1_2452_1000~26500

11AX40MIMO_ANT0_2422_30~1000



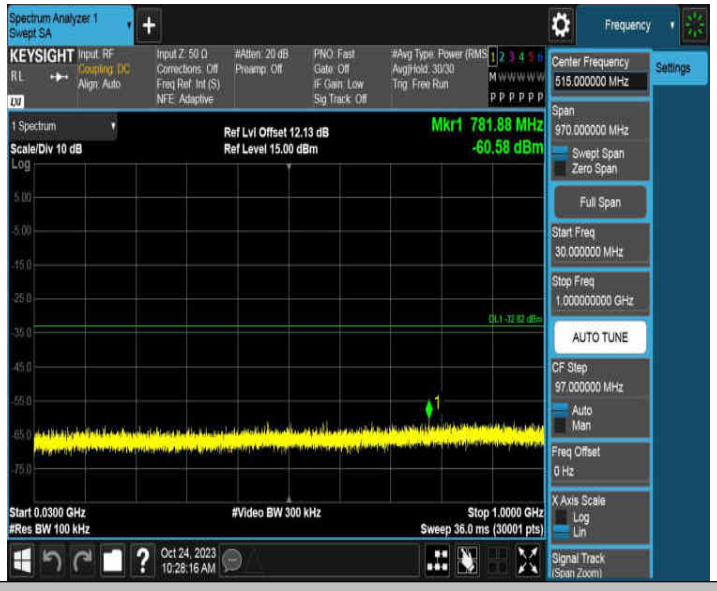
11AX40MIMO_ANT0_2422_1000~26500

11AX40MIMO_ANT1_2422_30~1000



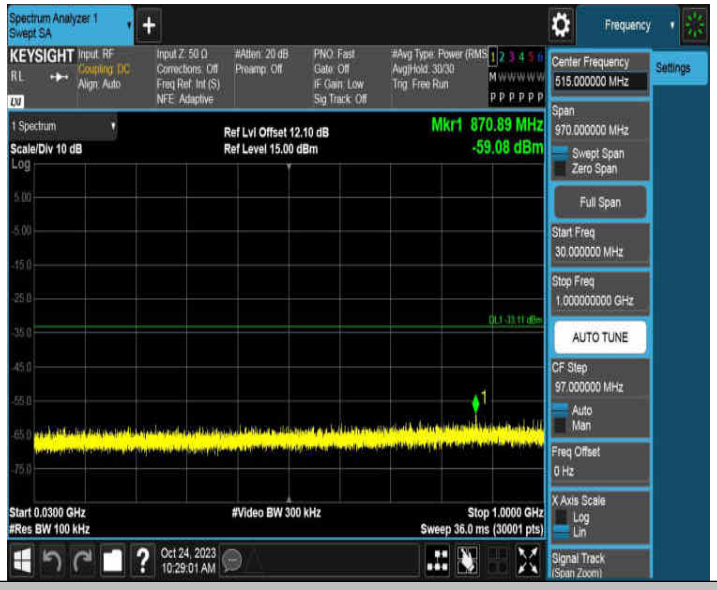
11AX40MIMO_ANT1_2422_1000~26500

11AX40MIMO_ANT0_2437_30~1000



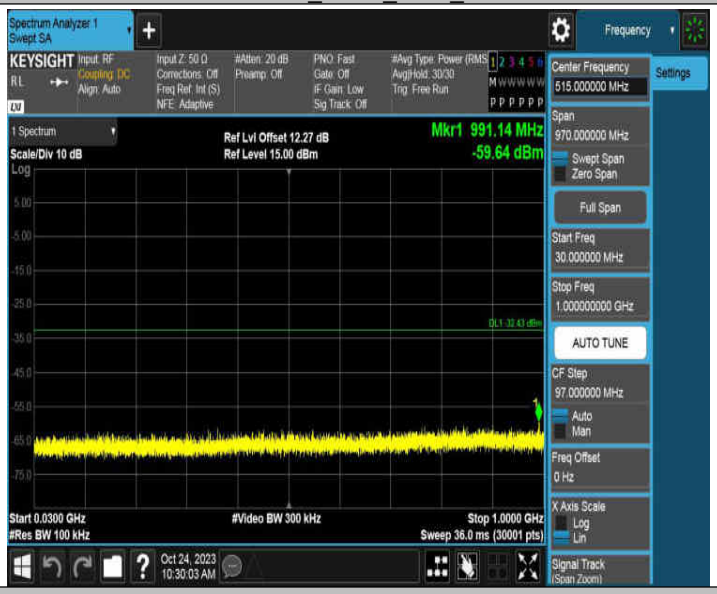
11AX40MIMO_ANT0_2437_1000~26500

11AX40MIMO_ANT1_2437_30~1000



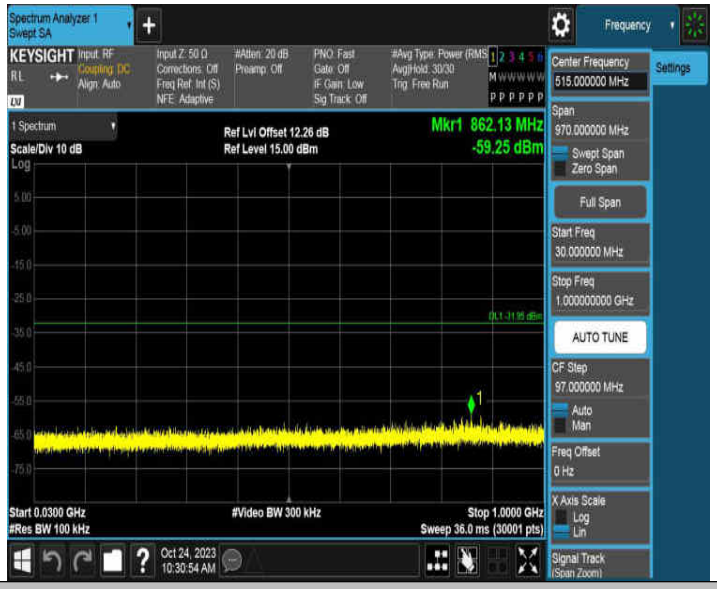
11AX40MIMO_ANT1_2437_1000~26500

11AX40MIMO_ANT0_2452_30~1000



11AX40MIMO_ANT0_2452_1000~26500

11AX40MIMO_ANT1_2452_30~1000

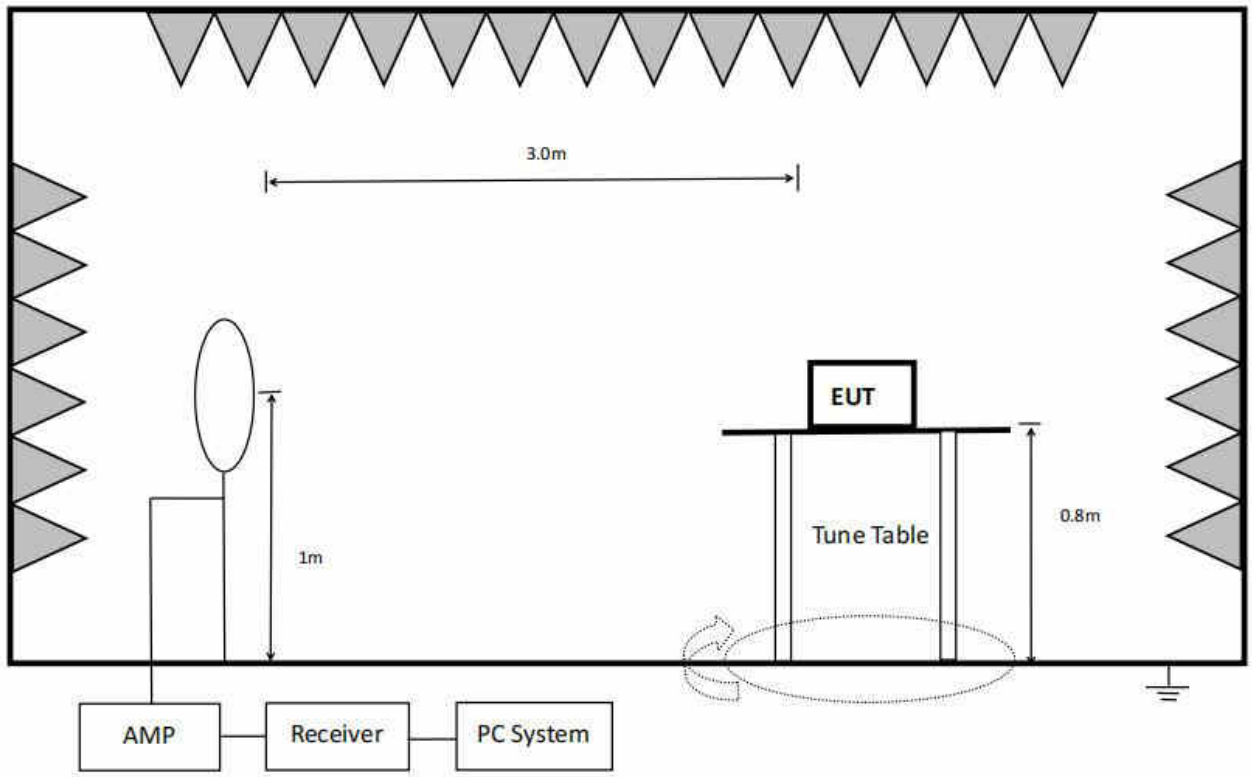


11AX40MIMO_ANT1_2452_1000~26500

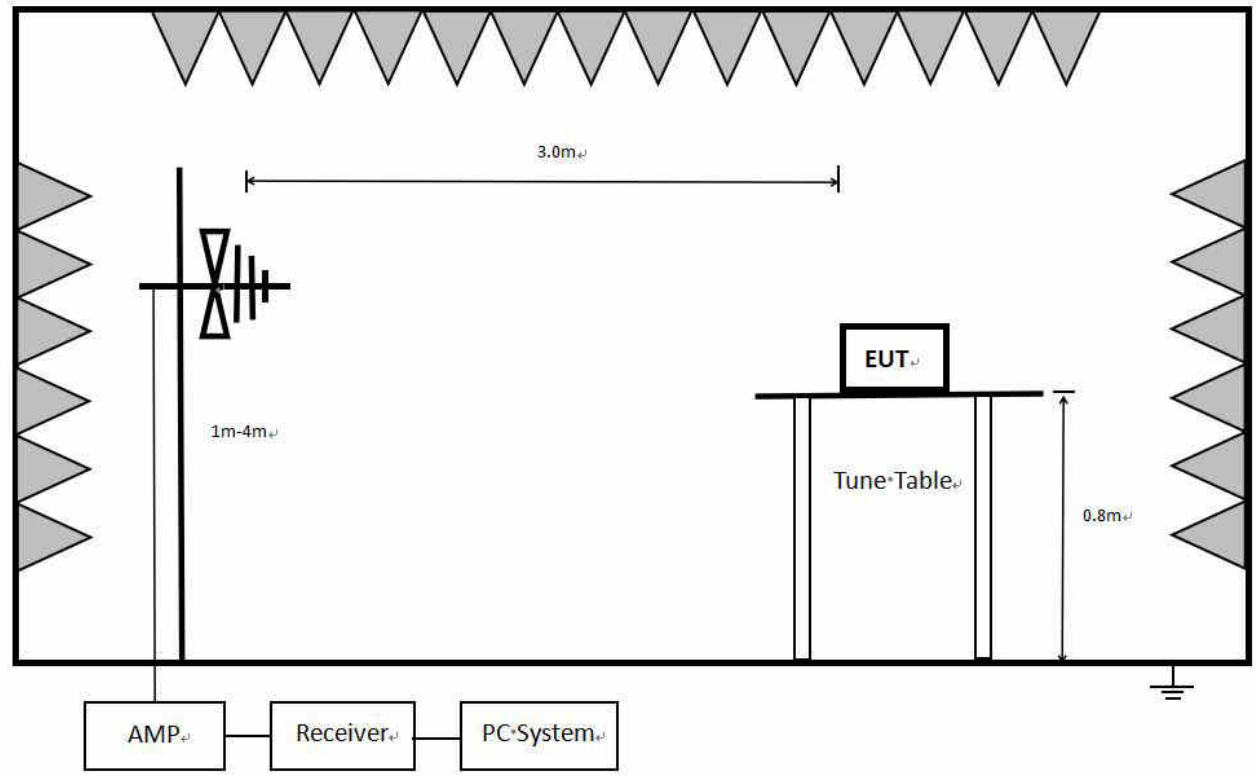
13. Radiated Emission

13.1. Block diagram of test setup

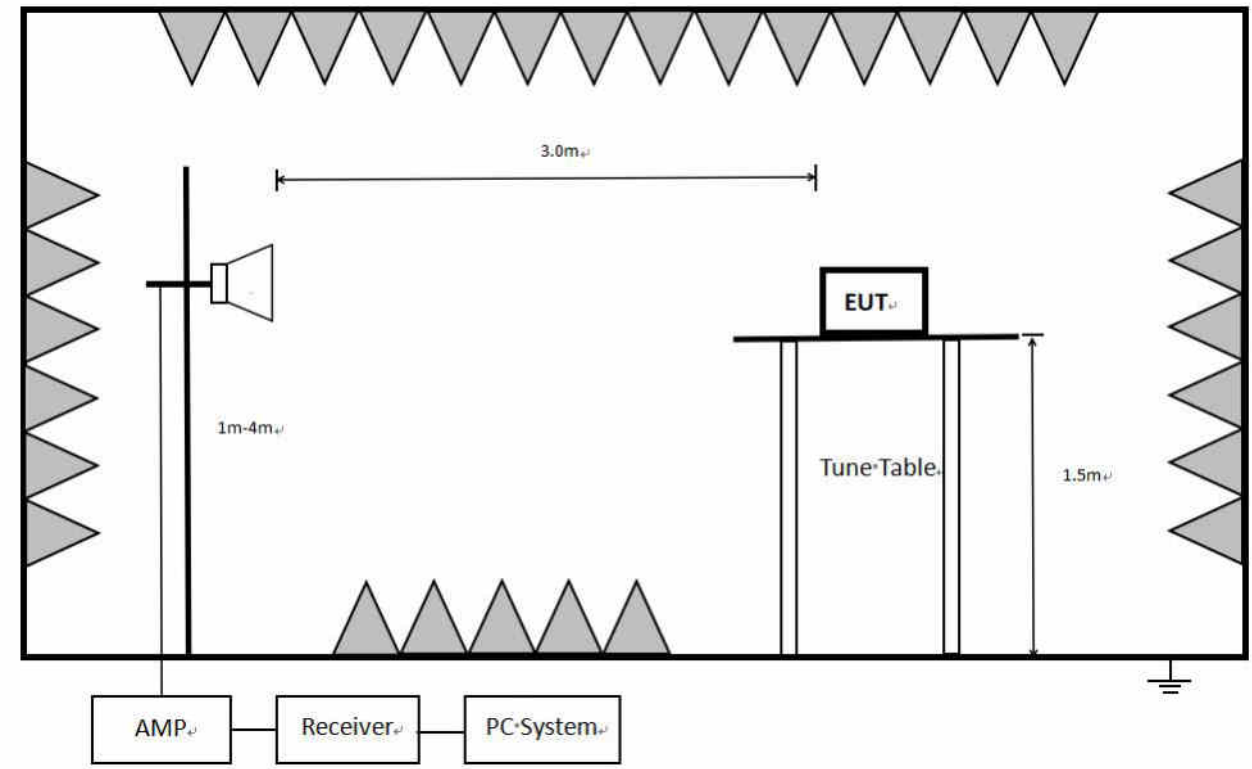
In 3 m Anechoic Chamber, test setup diagram for 9 kHz - 30 MHz:



In 3 m Anechoic Chamber, test setup diagram for 30 MHz - 1 GHz:



In 3 m Anechoic Chamber, test setup diagram for frequency above 1 GHz:



Note: For harmonic emissions test an appropriate high pass filter was inserted in the input port of AMP.

13.2. Limit

(1) FCC 15.205 Restricted frequency band

MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
[1]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
4.1772&4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.2072&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])
13.36-13.41			

[1]Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz.

[2]Above 38.6

(2) FCC 15.209 Limit.

Frequency MHz	Distance Meters	Field Strengths Limit	
		μV/m	dB(μV)/m
0.009 ~ 0.490	300	2400/F(kHz)	67.6-20log(F)
0.490 ~ 1.705	30	24000/F(kHz)	87.6-20log(F)
1.705 ~ 30.0	30	30	29.54
30 ~ 88	3	100	40.0
88 ~ 216	3	150	43.5
216~960	3	200	46.0
960~1000	3	500	54.0
Above 1000	3	74.0 dB(μV)/m (Peak) 54.0 dB(μV)/m (Average)	

Note: (1) At frequencies at or above 30 MHz, measurements may be performed at a distance other than what is specified provided: measurements are not made in the near field except where it can be shown that near field measurements are appropriate due to the characteristics of the device; and it can be demonstrated that the signal levels needed to be measured at the distance employed can be detected by the measurement equipment. Measurements shall not be performed at a distance greater than 30 meters unless it can be further demonstrated that measurements at a distance of 30 meters or less are impractical. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse linear-distance for field strength measurements; inverse-linear-distance-squared for power density measurements).

(2) At frequencies below 30 MHz, measurements may be performed at a distance closer than that specified in the regulations; however, an attempt should be made to avoid making measurements in the near field. Pending the development of an appropriate measurement procedure for measurements performed below 30 MHz, when performing measurements at a closer distance than specified, the results shall be extrapolated to the specified distance by either making measurements at a minimum of two distances on at least one radial to determine the proper extrapolation factor or by using the square of an inverse linear distance extrapolation factor (40 dB/decade). This paragraph (f) shall not apply to Access BPL devices operating below 30 MHz.

About Restricted bands of operation please refer to RSS-Gen section 8.10 and FCC § 15.205(a).

13.3. Test Procedure

Below 30 MHz：

The setting of the spectrum Analyzer

RBW	300 Hz (From 9 kHz to 0.15 MHz)/ 10 kHz (From 0.15 MHz to 30 MHz)
VBW	1 kHz (From 9 kHz to 0.15 MHz)/ 30 kHz (From 0.15 MHz to 30 MHz)
Sweep	Auto
Trace	Max hold

1. The testing follows the guidelines in ANSI C63.10-2013

2. The EUT was arranged to its worst case and then turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level. Both Horizontal, Face-on and Face-off polarizations of the antenna are set to make the measurement.

3. The EUT was placed on a turntable with 80 cm meter above ground.

4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of 1 meter height antenna tower.

5. The radiated emission limits are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.

6. For measurement below 1 GHz, the initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured. If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.

7. Although these tests were performed other than open field site, adequate comparison measurements were confirmed against 30m open field site. Therefore, sufficient tests were made to demonstrate that the alternative site produces results that correlate with the ones of tests made in an open field site based on KDB 414788.

Below 1 GHz and above 30 MHz：

The setting of the spectrum Analyzer

RBW	100 kHz
VBW	300 kHz
Sweep	Auto
Trace	Max hold

1. The testing follows the guidelines in ANSI C63.10-2013.

2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

3. The EUT was placed on a turntable with 80 cm above ground.

4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.

5. For measurement below 1GHz, the initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured. If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.

Above 1 GHz：

RBW	1 MHz
VBW	PEAK: 3 MHz AVG: see note 6
Sweep	Auto
Detector	Peak
Trace	Max hold

1. The testing follows the guidelines in ANSI C63.10-2013.

2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

3. The EUT was placed on a turntable with 1.5m above ground.

4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.

5. For measurement above 1GHz, the emission measurement will be measured by the peak detector. This peak level, once corrected, must comply with the limit specified in Section 15.209.

6. For measurements above 1 GHz the resolution bandwidth is set to 1 MHz, then the video bandwidth is set to 3 MHz for peak measurements and 1 MHz resolution bandwidth with 1/T video bandwidth with peak detector for AVG measurements. For the Duty Cycle please refer to clause 8.1.ON TIME AND DUTY CYCLE.

7. Restriction band: Investigated frequency range from 2310 MHz to 2430 MHz and 2445 MHz to 2500 MHz, 2310 MHz to 2450 MHz and 2425 MHz to 2500MHz.

All restriction band should comply with 15.209, other emission should be at least 20 dB below the fundamental.

Note 1: For all radiated test, EUT in each of three orthogonal axis emissions had been tested, but only the worst case (X axis) data recorded in the report.

Note 2: The EUT does not support simultaneous transmission.

Note 3: The EUT was fully exercised with external accessories during the test. In the case of multiple accessory external ports, an external accessory shall be connected to one of each type of port.

13.4. Results

Pass. (See below detailed test result)

All the emissions except fundamental emission from 9 kHz to 25 GHz were comply with 15.209 limits.

Note1: According exploratory test, the emission levels are 20 dB below the limit detected from 9 kHz to 30 MHz, so the final test was performed with frequency range from 30 MHz to 26 GHz and recorded in below.

Note2: For emissions below 1 GHz, according exploratory explorer test, when change Tx mode and channel, have no distinct influence on emissions level, so for emissions below 1 GHz, the final test was only performed with EUT working in ANT0+ ANT1, 11n HT20 mode.

Note3: For emissions above 1 GHz. If peak results comply with AV limit, AV Result is deemed to comply with AV limit.

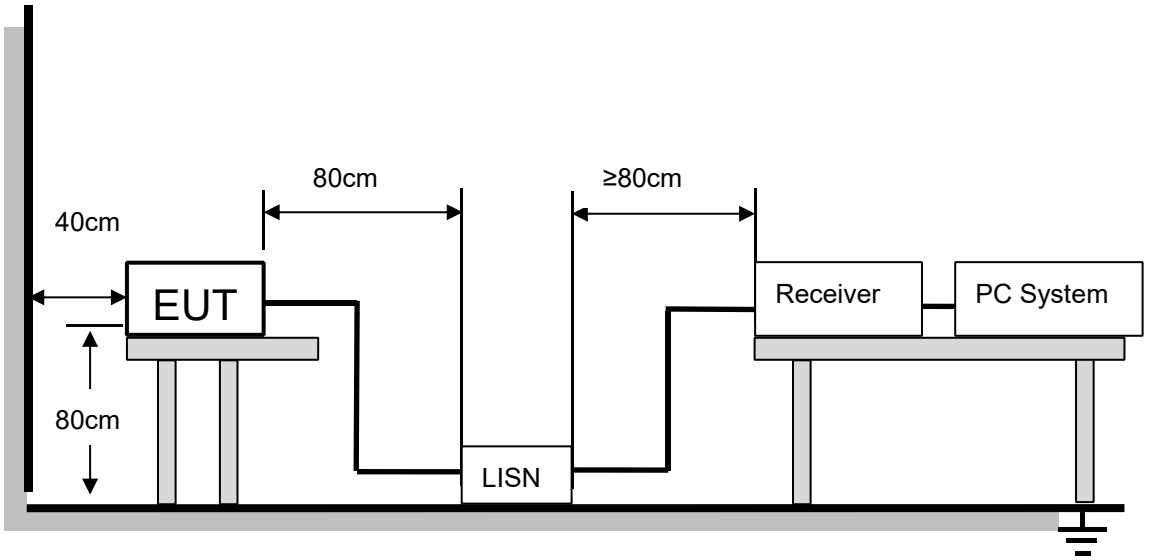
13.5. Original test data

Below 1 GHz and above 30 MHz test data Refer to appendix A

Above 1 GHz test data Refer to appendix B

14. AC Power Line Conducted Emissions

14.1. Block diagram of test setup



The EUT is put on a table of non-conducting material that is 80 cm high. The vertical conducting wall of shielding is located 40 cm to the rear of the EUT. The power line of the EUT is connected to the AC mains through an Artificial Mains Network (A.M.N.). A EMI Measurement Receiver (R&S Test Receiver ESR3) is used to test the emissions from both sides of AC line. According to the requirements in Section 6.2 of ANSI C63.10-2013.Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30 MHz using CISPR Quasi-Peak and average detector mode. The bandwidth of EMI test receiver is set at 9 kHz.

The arrangement of the equipment is installed to meet the standards and operating in a manner, which tends to maximize its emission characteristics in a normal application.

14.2. Limits

Please refer to CFR 47 FCC § 15.207 (a) and ISED RSS-Gen Clause 8.8.

Frequency (MHz)	Quasi-peak	Average
0.15 -0.5	66 - 56 *	56 - 46 *
0.50 -5.0	56.00	46.00
5.0 -30.0	60.00	50.00

Note 1: * Decreasing linearly with logarithm of frequency.

Note 2: The lower limit shall apply at the transition frequencies.

14.3. Test procedure

The EUT and Support equipment, if needed, were put placed on a non-metallic table, 80cm above the ground plane.

Configuration EUT to simulate typical usage as described in clause 2.4 and test equipment as described in clause 10.2 of this report.

All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10.

All support equipment power received from a second LISN.

Emissions were measured on each current carrying line of the EUT using an EMI Test Receiver connected to the LISN powering the EUT.

The Receiver scanned from 150 kHz to 30 MHz for emissions in each of the test modes.

During the above scans, the emissions were maximized by cable manipulation.

The test mode(s) described in clause 2.4 were scanned during the preliminary test.

After the preliminary scan, we found the test mode producing the highest emission level.

The EUT configuration and worse cable configuration of the above highest emission levels were recorded for reference of the final test.

EUT and support equipment were set up on the test bench as per the configuration with highest emission level in the preliminary test.

A scan was taken on both power lines, Neutral and Line, recording at least the six highest emissions.

Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit.

The test data of the worst-case condition(s) was recorded.

The bandwidth of test receiver is set at 9 kHz.

14.4. Test result

According to 15.207, power Line Conducted Emission is not required for devices which only employ battery power for operation and which do not operate from the AC power lines or contain provisions for operation while connected to the AC power lines.

15. Antenna Requirements

15.1. Applicable Requirements

Please refer to FCC §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.

Please refer to FCC §15.247(b)(4)

The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

15.2. Result

The antenna used for this product is Shrapnel antenna and that no antenna other than that furnished by the responsible party shall be used with the device, the maximum peak gain of the transmit Antenna0 is 2.30 dBi, Antenna1 is 4.93 dBi

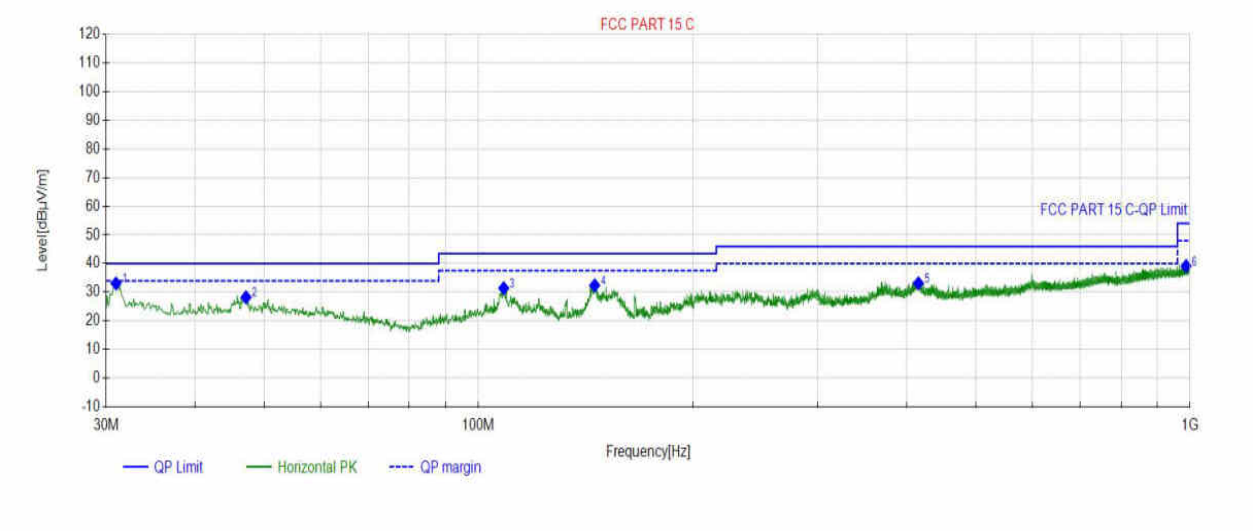
APPENDIX A – Radiated Emission Below 1GHz Test Data

Test Report

Project Information			
EUT:	WiFi Module	Environment:	23.6℃ 52%
Model:	SKO.WB920TU.3	SN:	
Mode:	11N20_2462	Voltage:	DC 5V+/-0.3
Customer:		Engineer:	Soho Liu
Remark:	Power set：0		

Start of Test: 2023-11-01 09:23:39

Test Graph



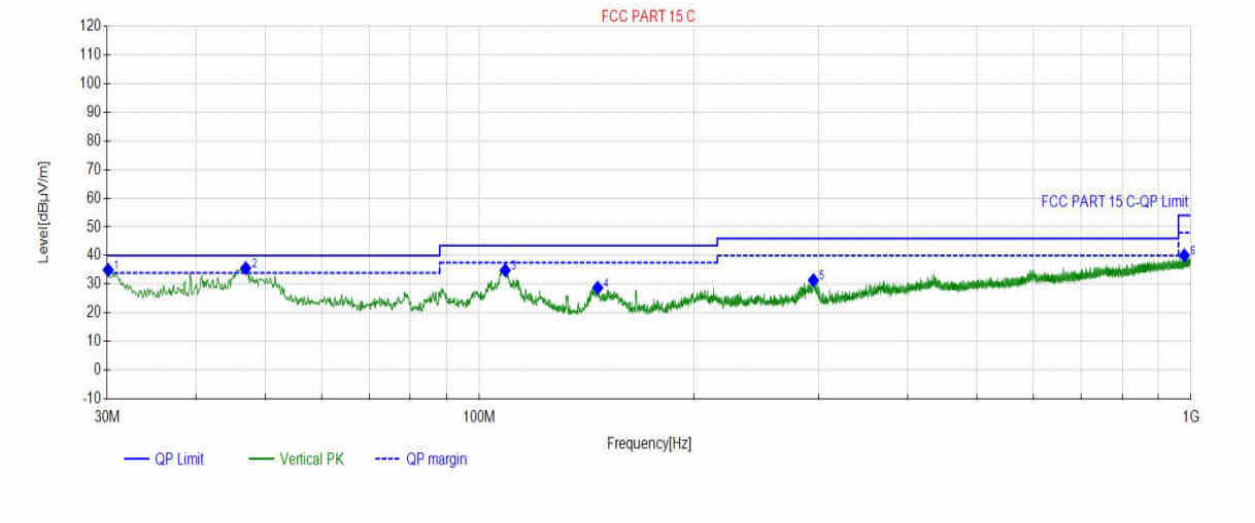
Final Data List								
NO.	Freq. (MHz)	Factor (dB)	QP Value (dBµV/m)	QP Limit (dBµV/m)	QP Margin (dB)	Height (cm)	Angle (°)	Polarity
1	30.9701	19.05	33.06	40.00	6.94	100	27	Horizontal
2	47.1707	22.13	28.23	40.00	11.77	100	27	Horizontal
3	108.5779	20.27	31.43	43.50	12.07	100	27	Horizontal
4	145.7326	17.05	32.38	43.50	11.12	100	229	Horizontal
5	415.4195	25.98	33.11	46.00	12.89	100	36	Horizontal
6	987.3887	35.40	39.12	54.00	14.88	100	229	Horizontal

Test Report

Project Information			
EUT:	WiFi Module	Environment:	23.6℃ 52%
Model:	SKO.WB920TU.3	SN:	
Mode:	11N20_2462	Voltage:	DC 5V+/-0.3
Customer:		Engineer:	Soho Liu
Remark:	Power set：0		

Start of Test: 2023-11-01 09:24:23

Test Graph



Final Data List								
NO.	Freq. (MHz)	Factor (dB)	QP Value (dBµV/m)	QP Limit (dBµV/m)	QP Margin (dB)	Height (cm)	Angle (°)	Polarity
1	30.0970	18.84	34.99	40.00	5.01	100	95	Vertical
2	46.9767	22.10	35.60	40.00	4.40	100	328	Vertical
3	108.7719	20.26	34.87	43.50	8.63	100	48	Vertical
4	146.7027	17.04	28.75	43.50	14.75	100	92	Vertical
5	294.7395	21.81	31.38	46.00	14.62	100	114	Vertical
6	978.3668	35.31	40.06	54.00	13.94	100	30	Vertical

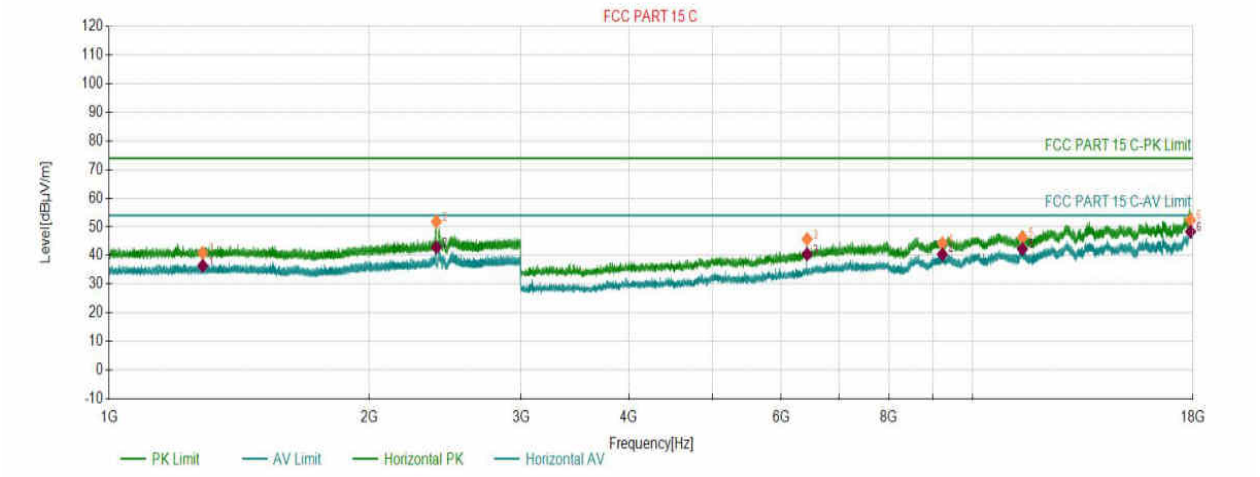
APPENDIX B – Radiated Emission Above 1GHz Test Data

Test Report

Project Information			
EUT:	WiFi Module	Environment:	24.5℃ 50%
Model:	SKO.WB920TU.3	SN:	
Mode:	11N20_2412	Voltage:	DC 5V+/-0.3
Customer:		Engineer:	Soho Liu
Remark:	Power set：0		

Start of Test: 2023-10-25 19:46:02

Test Graph



PK Final Data List								
NO.	Freq. (MHz)	Factor (dB)	PK Value (dBµV/m)	PK Limit (dBµV/m)	PK Margin (dB)	Height (cm)	Angle (°)	Polarity
1	1283.6142	2.63	40.93	74.00	33.07	150	360	Horizontal
2	2393.0697	7.41	51.84	74.00	22.16	150	152	Horizontal
3	6431.4216	-4.16	45.76	74.00	28.24	150	47	Horizontal
4	9226.0613	3.22	44.31	74.00	29.69	150	102	Horizontal
5	11422.1711	5.87	46.34	74.00	27.66	150	0	Horizontal
6	17883.7442	17.31	52.36	74.00	21.64	150	70	Horizontal

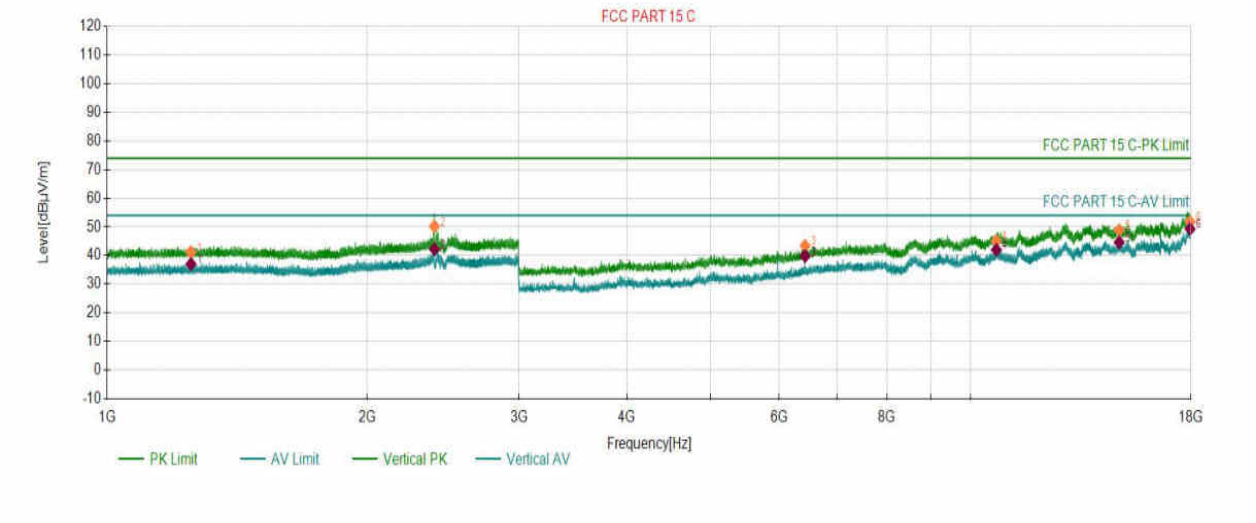
AV Final Data List								
NO.	Freq. (MHz)	Factor (dB)	AV Value (dBµV/m)	AV Limit (dBµV/m)	AV Margin (dB)	Height (cm)	Angle (°)	Polarity
1	1283.6142	2.63	36.42	54.00	17.58	150	360	Horizontal
2	2393.0697	7.41	42.88	54.00	11.12	150	152	Horizontal
3	6431.4216	-4.16	40.47	54.00	13.53	150	47	Horizontal
4	9226.0613	3.22	40.43	54.00	13.57	150	102	Horizontal
5	11422.1711	5.87	42.31	54.00	11.69	150	0	Horizontal
6	17883.7442	17.31	48.33	54.00	5.67	150	70	Horizontal

Test Report

Project Information			
EUT:	WiFi Module	Environment:	24.5℃ 50%
Model:	SKO.WB920TU.3	SN:	
Mode:	11N20_2412	Voltage:	DC 5V+/-0.3
Customer:		Engineer:	Soho Liu
Remark:	Power set：0		

Start of Test: 2023-10-25 19:47:27

Test Graph



PK Final Data List								
NO.	Freq. (MHz)	Factor (dB)	PK Value (dBµV/m)	PK Limit (dBµV/m)	PK Margin (dB)	Height (cm)	Angle (°)	Polarity
1	1250.5125	2.49	41.21	74.00	32.79	150	98	Vertical
2	2393.4697	7.41	50.16	74.00	23.84	150	268	Vertical
3	6431.4216	-4.16	43.42	74.00	30.58	150	180	Vertical
4	10709.6355	5.17	45.12	74.00	28.88	150	298	Vertical
5	14861.8431	12.16	48.89	74.00	25.11	150	354	Vertical
6	17955.7478	17.10	51.78	74.00	22.22	150	0	Vertical

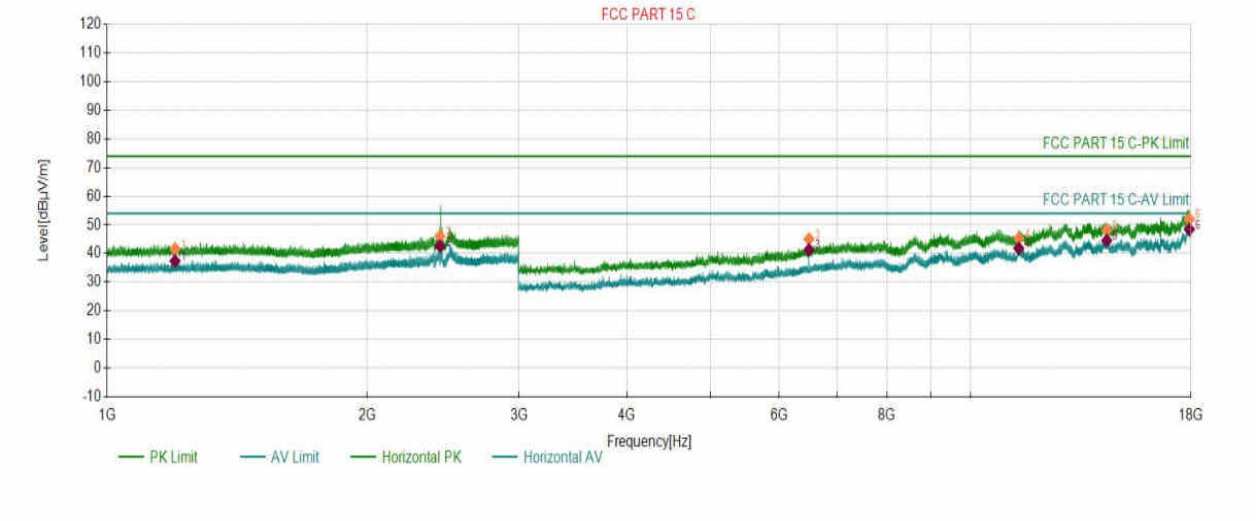
AV Final Data List								
NO.	Freq. (MHz)	Factor (dB)	AV Value (dBµV/m)	AV Limit (dBµV/m)	AV Margin (dB)	Height (cm)	Angle (°)	Polarity
1	1250.5125	2.49	37.03	54.00	16.97	150	98	Vertical
2	2393.4697	7.41	42.24	54.00	11.76	150	268	Vertical
3	6431.4216	-4.16	39.83	54.00	14.17	150	180	Vertical
4	10709.6355	5.17	41.98	54.00	12.02	150	298	Vertical
5	14861.8431	12.16	44.62	54.00	9.38	150	354	Vertical
6	17955.7478	17.10	49.28	54.00	4.72	150	0	Vertical

Test Report

Project Information			
EUT:	WiFi Module	Environment:	24.5℃ 50%
Model:	SKO.WB920TU.3	SN:	
Mode:	11N20_2437	Voltage:	DC 5V+/-0.3
Customer:		Engineer:	Soho Liu
Remark:	Power set：0		

Start of Test: 2023-10-25 19:53:50

Test Graph



PK Final Data List								
NO.	Freq. (MHz)	Factor (dB)	PK Value (dBµV/m)	PK Limit (dBµV/m)	PK Margin (dB)	Height (cm)	Angle (°)	Polarity
1	1198.4099	2.27	41.58	74.00	32.42	150	140	Horizontal
2	2429.1715	7.58	46.04	74.00	27.96	150	184	Horizontal
3	6498.1749	-3.97	45.07	74.00	28.93	150	153	Horizontal
4	11370.4185	5.63	45.29	74.00	28.71	150	358	Horizontal
5	14378.0689	11.34	48.11	74.00	25.89	150	4	Horizontal
6	17919.7460	17.30	52.04	74.00	21.96	150	77	Horizontal

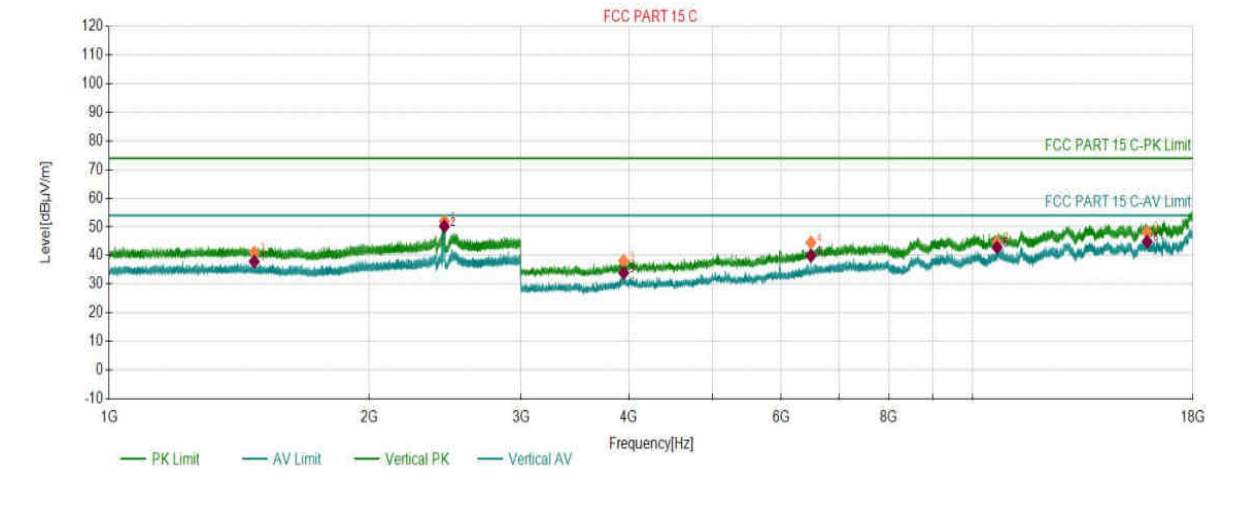
AV Final Data List								
NO.	Freq. (MHz)	Factor (dB)	AV Value (dBµV/m)	AV Limit (dBµV/m)	AV Margin (dB)	Height (cm)	Angle (°)	Polarity
1	1198.4099	2.27	37.40	54.00	16.60	150	140	Horizontal
2	2429.1715	7.58	42.54	54.00	11.46	150	184	Horizontal
3	6498.1749	-3.97	41.28	54.00	12.72	150	153	Horizontal
4	11370.4185	5.63	41.82	54.00	12.18	150	358	Horizontal
5	14378.0689	11.34	44.55	54.00	9.45	150	4	Horizontal
6	17919.7460	17.30	48.42	54.00	5.58	150	77	Horizontal

Test Report

Project Information			
EUT:	WiFi Module	Environment:	24.5℃ 50%
Model:	SKO.WB920TU.3	SN:	
Mode:	11N20_2437	Voltage:	DC 5V+/-0.3
Customer:		Engineer:	Soho Liu
Remark:	Power set：0		

Start of Test: 2023-10-25 19:55:15

Test Graph



PK Final Data List								
NO.	Freq. (MHz)	Factor (dB)	PK Value (dBµV/m)	PK Limit (dBµV/m)	PK Margin (dB)	Height (cm)	Angle (°)	Polarity
1	1472.6236	3.42	41.05	74.00	32.95	150	348	Vertical
2	2445.1723	7.67	51.92	74.00	22.08	150	162	Vertical
3	3942.7971	-	38.14	74.00	35.86	150	112	Vertical
4	6498.1749	-3.97	44.51	74.00	29.49	150	23	Vertical
5	10673.6337	5.02	44.65	74.00	29.35	150	133	Vertical
6	15929.1465	12.36	48.23	74.00	25.77	150	210	Vertical

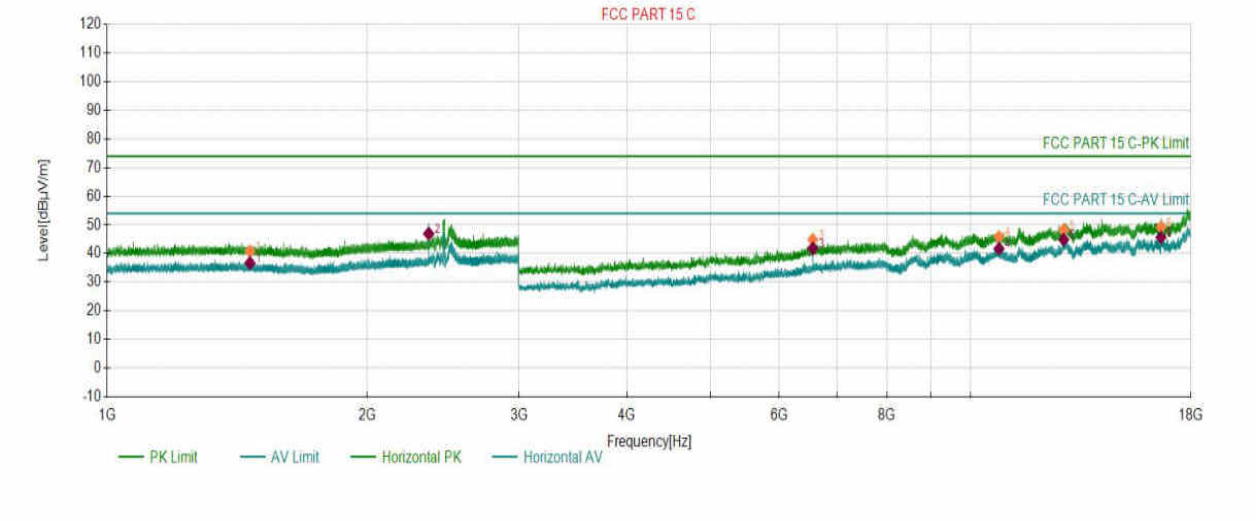
AV Final Data List								
NO.	Freq. (MHz)	Factor (dB)	AV Value (dBµV/m)	AV Limit (dBµV/m)	AV Margin (dB)	Height (cm)	Angle (°)	Polarity
1	1472.6236	3.42	37.90	54.00	16.10	150	348	Vertical
2	2445.1723	7.67	50.20	54.00	3.80	150	162	Vertical
3	3942.7971	-	34.00	54.00	20.00	150	112	Vertical
4	6498.1749	-3.97	39.93	54.00	14.07	150	23	Vertical
5	10673.6337	5.02	42.86	54.00	11.14	150	133	Vertical
6	15929.1465	12.36	44.87	54.00	9.13	150	210	Vertical

Test Report

Project Information			
EUT:	WiFi Module	Environment:	24.5℃ 50%
Model:	SKO.WB920TU.3	SN:	
Mode:	11N20_2462	Voltage:	DC 5V+/-0.3
Customer:		Engineer:	Soho Liu
Remark:	Power set：0		

Start of Test: 2023-10-25 20:22:35

Test Graph



PK Final Data List								
NO.	Freq. (MHz)	Factor (dB)	PK Value (dBµV/m)	PK Limit (dBµV/m)	PK Margin (dB)	Height (cm)	Angle (°)	Polarity
1	1463.7232	3.41	40.74	74.00	33.26	150	347	Horizontal
2	2357.2679	6.76	46.87	74.00	27.13	150	1	Horizontal
3	6564.9282	-3.58	44.83	74.00	29.17	150	198	Horizontal
4	10786.8893	5.19	45.78	74.00	28.22	150	276	Horizontal
5	12817.2409	9.12	48.15	74.00	25.85	150	76	Horizontal
6	16613.1807	12.21	49.19	74.00	24.81	150	210	Horizontal

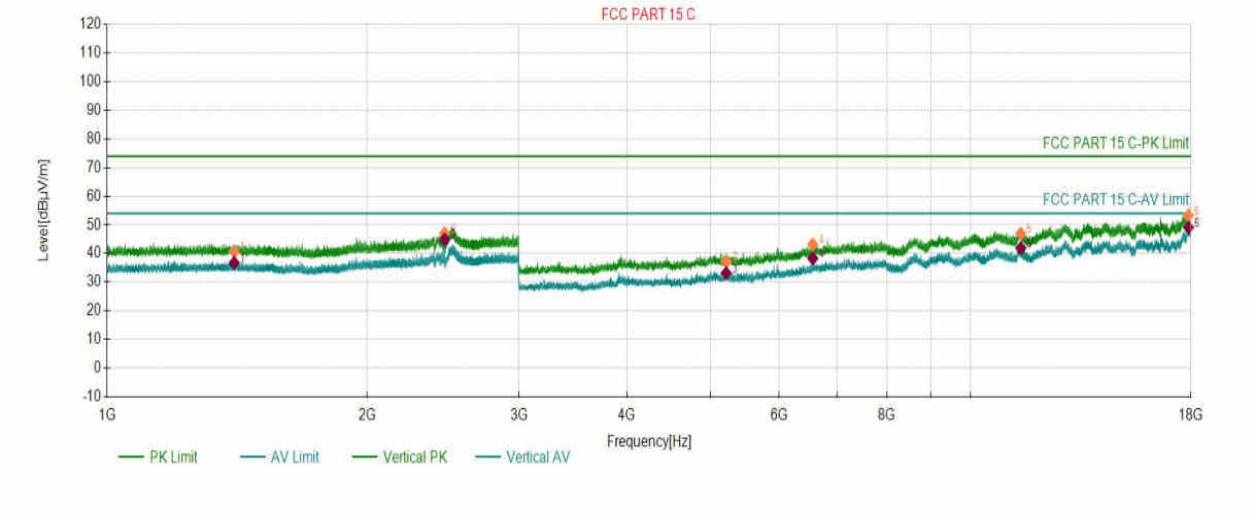
AV Final Data List								
NO.	Freq. (MHz)	Factor (dB)	AV Value (dBµV/m)	AV Limit (dBµV/m)	AV Margin (dB)	Height (cm)	Angle (°)	Polarity
1	1463.7232	3.41	36.68	54.00	17.32	150	347	Horizontal
2	2357.2679	6.76	46.96	54.00	7.04	150	1	Horizontal
3	6564.9282	-3.58	41.79	54.00	12.21	150	198	Horizontal
4	10786.8893	5.19	41.70	54.00	12.30	150	276	Horizontal
5	12817.2409	9.12	44.85	54.00	9.15	150	76	Horizontal
6	16613.1807	12.21	45.61	54.00	8.39	150	210	Horizontal

Test Report

Project Information			
EUT:	WiFi Module	Environment:	24.5℃ 50%
Model:	SKO.WB920TU.3	SN:	
Mode:	11N20_2462	Voltage:	DC 5V+/-0.3
Customer:		Engineer:	Soho Liu
Remark:	Power set：0		

Start of Test: 2023-10-25 20:24:08

Test Graph



PK Final Data List								
NO.	Freq. (MHz)	Factor (dB)	PK Value (dBµV/m)	PK Limit (dBµV/m)	PK Margin (dB)	Height (cm)	Angle (°)	Polarity
1	1403.1202	3.36	40.63	74.00	33.37	150	293	Vertical
2	2459.3730	7.74	47.08	74.00	26.92	150	197	Vertical
3	5211.1106	-8.39	37.27	74.00	36.73	150	7	Vertical
4	6564.9282	-3.58	43.11	74.00	30.89	150	33	Vertical
5	11434.1717	5.76	46.94	74.00	27.06	150	187	Vertical
6	17878.4939	17.28	53.30	74.00	20.70	150	55	Vertical

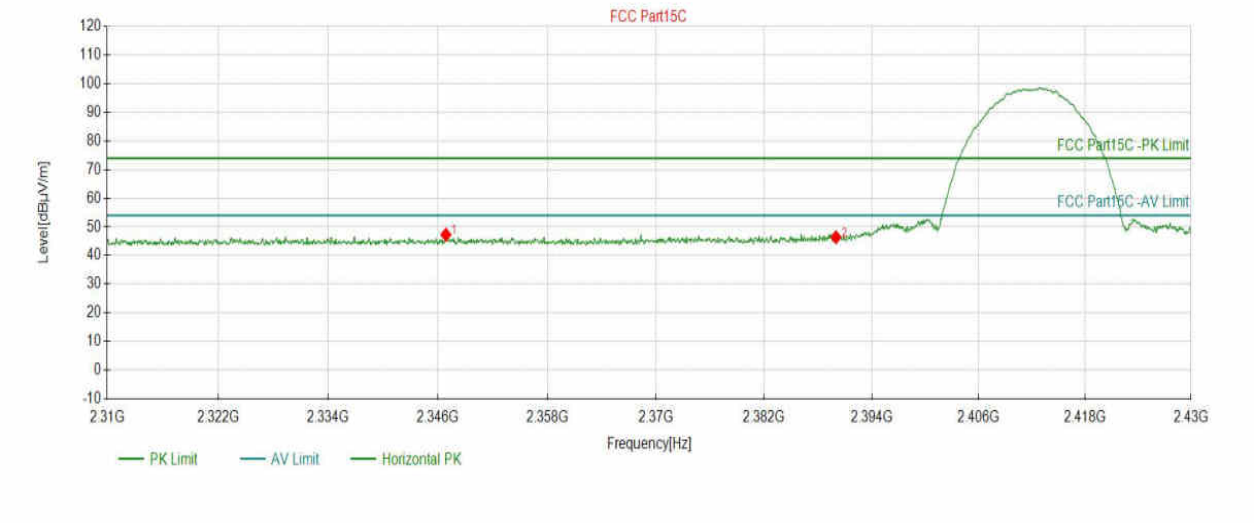
AV Final Data List								
NO.	Freq. (MHz)	Factor (dB)	AV Value (dBµV/m)	AV Limit (dBµV/m)	AV Margin (dB)	Height (cm)	Angle (°)	Polarity
1	1403.1202	3.36	36.75	54.00	17.25	150	293	Vertical
2	2459.3730	7.74	44.90	54.00	9.10	150	197	Vertical
3	5211.1106	-8.39	33.18	54.00	20.82	150	7	Vertical
4	6564.9282	-3.58	38.29	54.00	15.71	150	33	Vertical
5	11434.1717	5.76	41.92	54.00	12.08	150	187	Vertical
6	17878.4939	17.28	49.10	54.00	4.90	150	55	Vertical

Test Report

Project Information			
EUT:	WiFi Module	Environment:	24.5℃ 50%
Model:	SKO.WB920TU.3	SN:	
Mode:	11B_2412	Voltage:	DC 5V+/-0.3
Customer:		Engineer:	Soho Liu
Remark:	Power set：9		

Start of Test: 2023-10-30 11:00:44

Test Graph



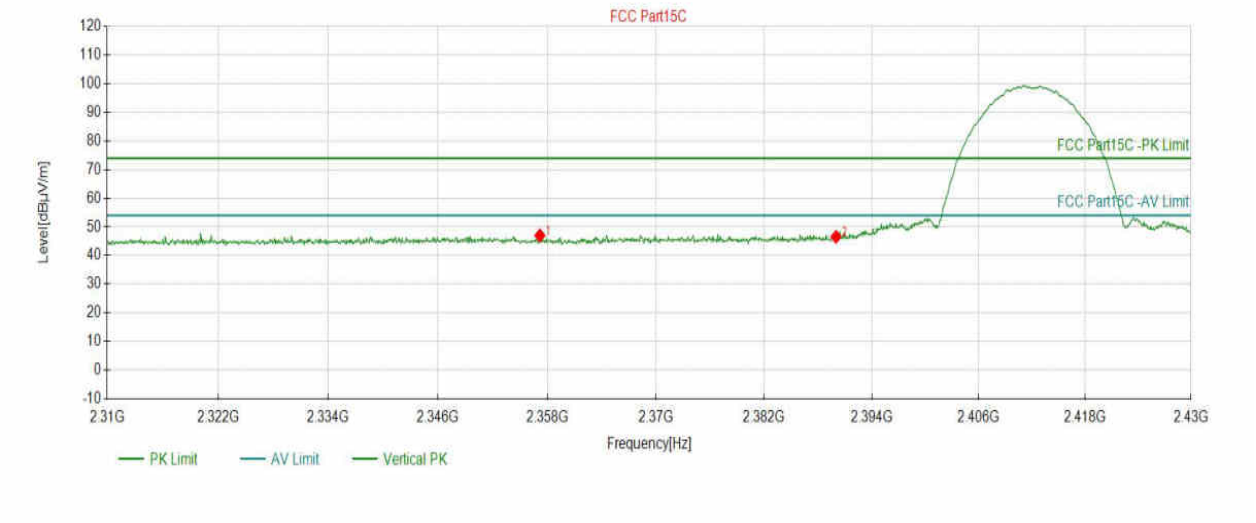
Suspected Data List								
NO.	Freq. (MHz)	Level (dBµV/m)	Factor (dB)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Angle (°)	Polarity
1	2346.8584	47.27	5.99	74.00	26.73	150	27	Horizontal
2	2390.0200	46.39	5.95	74.00	27.61	150	179	Horizontal

Test Report

Project Information			
EUT:	WiFi Module	Environment:	24.5℃ 50%
Model:	SKO.WB920TU.3	SN:	
Mode:	11B_2412	Voltage:	DC 5V+/-0.3
Customer:		Engineer:	Soho Liu
Remark:	Power set：9		

Start of Test: 2023-10-30 11:01:44

Test Graph



Suspected Data List								
NO.	Freq. (MHz)	Level (dBµV/m)	Factor (dB)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Angle (°)	Polarity
1	2357.1836	47.01	5.98	74.00	26.99	150	97	Vertical
2	2390.0200	46.54	5.95	74.00	27.46	150	304	Vertical